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RADIO-TV/ELECTRONICS

OUR 47th
YEAR



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NO. 731

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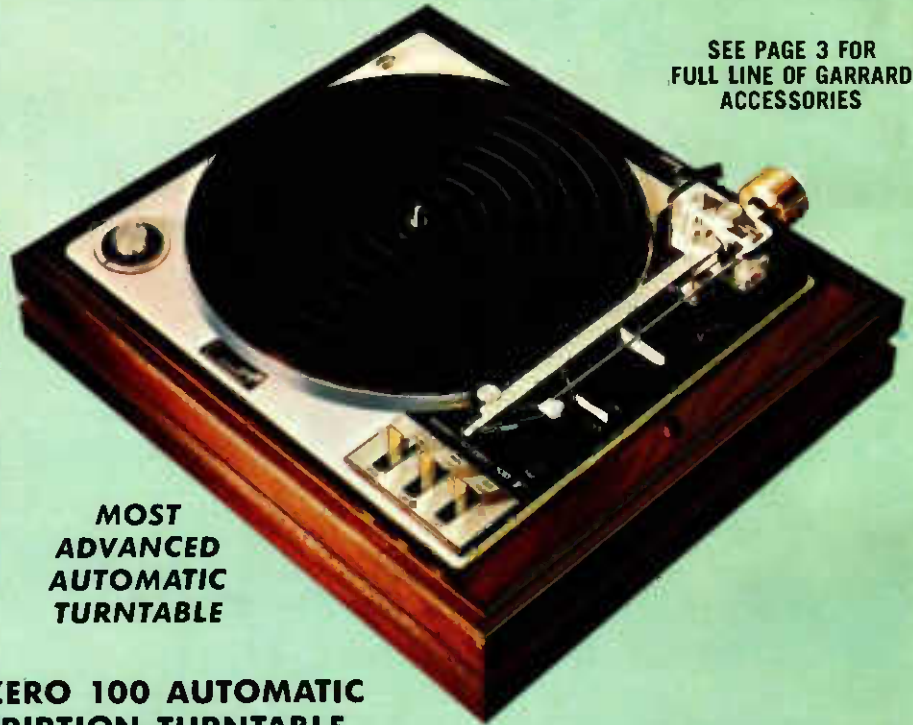
1973 BURSTEIN-APPLEBEE CATALOG - EVERYTHING IN RADIO, TV AND ELECTRONICS

Garrard WORLD'S FINEST AUTOMATIC TURNTABLES



Garrard
SYNCHRO-LAB MOTOR
 Runs at perfect constant speed regardless of variations in voltage, circuit load, temperature, stylus pressure, level of record modulation or turntable load.

SEE PAGE 3 FOR
 FULL LINE OF GARRARD
 ACCESSORIES



**MOST
 ADVANCED
 AUTOMATIC
 TURNTABLE**

**1¢ SALE
 EXTRA BONUS!**

YOUR CHOICE OF ONE OF
 THESE FAMOUS MAKE CARTRIDGES



SHURE



PICKERING

JUST A PENNY MORE BUYS ONE
 OF THESE FAMOUS CARTRIDGES
 WITH PURCHASE OF TURNTABLE

Garrard

MODEL ZERO 100 AUTOMATIC TRANSCRIPTION TURNTABLE

Tracking error up to 160 times less than any automatic turntable with a conventional tonearm. Perfect sound reproduction with this revolutionary design in automatic turntables. Tone arm has a parallel articulating arm and pivoting cartridge housing providing "zero" tracking error and precision tangential tracking over entire record surface, is adjustable for 15° vertical tracking, cartridge carrier position, and sliding weight stylus force setting (0 to 3 gms). 12" aluminum turntable, kinetically matched to the proven Synchro-Lab motor. Two point record support for automatic operation. Has rotating manual spindle. Interchangeable spindles for manual and automatic operation. Fingertip control for viscous damped cue and pause. 33 1/3 and 45 rpm. Size: left to right 15 1/8";

front to rear 14 1/4"; above motor board 4 1/4"; below motor board 2 1/4". (Uses base B2 or WB2 and dust cover D2- see accessories page 3).
 Shpg. wt. 15 lbs.
 No. 33A686, Model Zero 100 Less Cartridge and Base, Net Each \$199.95
 No. 33A9, Model Zero 100 Turntable with Shure M93E Cartridge, Each \$199.96
 No. 33A10, Model Zero 100 Turntable with Pickering V15ATE Cartridge, \$199.96
 No. 33A709, Model Zero 100 Turntable with Shure M91ED Cartridge, Ea. \$204.95
 No. 33A12, Model Zero 100 Turntable with Pickering XV15/AME Cartridge \$204.95
 No. 33A700, Model Zero 100 Turntable with Shure V-15 Cartridge, Each \$224.95



Garrard MODEL SL95B

AUTOMATIC TRANSCRIPTION TURNTABLE

Features Synchro-Lab motor, 12" aluminum turntable. Advanced ultra-low mass tone arm with Aformosia wood damping. Gyroscopic gimbal pivots. Adjustable counterweight. Stylus force in 1/2 gram increments, from 0 to 5 grams. Interchangeable cartridge clip. Adjustable anti-skating control, simple patented lever type, calibrated in 1/2 grams and infinitely variable. Single play spindle rotates with record. Automatic spindle utilizes positive safety platform, 3 speeds, 33 1/3, 45 and 78 rpm. Size: left to right 15 1/8"; front to rear 14 1/4"; above motor board 4 1/4"; below motor board 3". Shpg. wt. 13 lbs.
 No. 33A539, Model SL95B Less Cartridge and Base, Net Each \$149.95
 No. 33A595, Model SL95B Turntable with Shure Elliptical M93E Cartridge, Each \$149.96
 No. 33A564, Model SL95B Turntable with Pickering V15ATE Cartridge, Each \$149.96
 No. 33A710, Model SL95B Turntable with Shure M91ED Cartridge, Each \$154.95
 No. 33A554, Model SL95B Turntable with Pickering XV15/AME Cartridge, Each \$154.95



Garrard MODEL SL72B

3 SPEED AUTOMATIC TURNTABLE

For the person who wants the finest quality at a moderate price! its new tone-arm is low mass, hexagon shaped of sparkling aluminum that floats within a cast gimbal mounting. Uses the same slide-in cartridge clip as used on the SL95B. The counterweight is isolated from the arm and is fully adjustable by rotating it on its lead screw. The stylus pressure is adjustable by a knob on the rear of the arm with the setting indicated on a scale on the side of the arm. The turntable is machined aluminum and its weight is precisely matched to its Synchro-Lab motor. 3 speeds, 33 1/3, 45, and 78 rpm. Shpg. wt. 13 lbs.
 No. 33A634, Model SL72B, Less Cartridge and Base, Each \$109.95
 No. 33A639, Model SL72B with Shure M93E Elliptical Cartridge, Each \$109.96
 No. 33A640, Model SL72B with Pickering V15/ATE-3 Cartridge, Each \$109.96
 No. 33A711, Model SL72B with Shure M91ED Elliptical Cartridge, Each \$114.95



Garrard MODEL SL55B

AUTOMATIC TURNTABLE

Features synchronous speed and viscous damped cueing ... priced within reach of budget conscious music lovers. Rigid, lightweight aluminum tonearm with slide-in cartridge holder. Fully adjustable anti-skate control and stylus force adjustment allow more positive and accurate settings. 3 speeds, 33 1/3, 45, and 78 rpm. Supplied with 2 spindles, one for single play, the other for automatic intermix. Size: left to right 14 1/2"; front to rear 12 1/4"; above motor board 4 1/4"; below motor board 2 1/4". Shpg. wt. 11 lbs.
 No. 33A542, Model SL55B Less Cartridge and base, Net Each \$64.95
 No. 33A712, Model SL55B Turntable with Shure M44E Cartridge, Net Each \$64.96
 No. 33A552, Model SL55B Turntable with Pickering V15/ACE-3 Cartridge, Net Each \$64.96
 No. 33A588, Model SL55B Turntable with Shure M93E Cartridge, Net Each \$69.95
 No. 33A589, Model SL55B Turntable with Pickering V15/ATE-3 Cartridge, Each \$69.95

Garrard

AUTOMATIC TURNTABLES AND ACCESSORIES

MODEL 40B AUTOMATIC TURNTABLE

Designed for outstanding performance and versatility in systems where space must be considered. Features lightweight, tubular aluminum tonearm with isolated counterweight, and viscous damped single-lever cueing/pause control which prevents record wear and stylus damage, adjustable pressure control with visible scale and slide-in cartridge holder. Has two spindles, short for manual, long for automatic. Automatic intermix operation. 3 speeds: 33 1/3, 45 and 78 rpm. 4-pole shaded "induction surge" motor. Size: 14-7/8" left to right, 12-1/2" front to rear; 4-5/8" above and 2-7/8" below motor board. Shpg. wt. 9 lbs.

No. 33A530. Model 40B Less Cartridge and Base. Net Each \$49.95
 No. 33A637. Model 40B Turntable with Shure M44E Cartridge. Net Each \$49.96
 No. 33A603. Model 40B Turntable with Pickering V15/AC-3 Cartridge. Net Each \$49.96
 No. 33A638. Model 40B Turntable with Shure M55E Cartridge. Net Each \$54.95
 No. 33A606. Model 40B Turntable with Pickering V15/ACE-3 Cartridge. Net Each \$54.95

MODEL 30 4-SPEED AUTOMATIC TURNTABLE

Now, Garrard quality and features selling for the price of lower quality record changers. Features new oversized weighted turntable, one-piece cast aluminum tone arm, simple, accessible stylus pressure adjustment, super sensitive trip mechanism with Dupont Delrin, 4-pole shaded "induction surge" motor, intermix operation. Two spindles, short for manual; center drop for automatic play 4 speeds: 16 2/3, 33 1/3, 45 and 78 rpm. Ultra compact size: left to right 14-1/16"; front to rear 12-3/4"; above motor board 4-3/4"; below motor board 2-1/4". Shpg. wt. 12 lbs.

No. 33A500. Less Base. Model 30 Complete with Ceramic Diamond Stylus Cartridge. Each .. \$44.95

MODEL SP-20B 4-SPEED MANUAL RECORD PLAYER

Ideal for manual playing records through high fidelity systems. Compact and efficient, recommended for quality audio-visual applications. High demand for a unit of this quality and low price has brought this unit into being. This player should not be compared with other low price, single play turntables as durability and ruggedness have been fully engineered into it, to provide years of trouble-free service. Features cartridge clip for any cartridge, magnetic or ceramic. Full size weighted turntable. Automatic return of arm to rest and shut-off after play. Arm is semi-counterbalanced with adjustable stylus pressure. Compact size only 14-3/8" left to right, 12-1/2" front to rear, 3-1/2" above and 2-1/8" below motor board. 4 speeds: 16 2/3, 33 1/3, 45 and 78 rpm. Shpg. wt. 10 lbs.

No. 33A531. Model SP-20B Less Cartridge and Base. Net Each \$42.95
 No. 33A591. Model SP-20B Record Player with Shure M75-6S Cartridge. Net Each \$42.96
 No. 33A592. Model SP-20B Record Player with Pickering V15/AC-3 Cartridge. Net Each \$42.96



MODEL 40B



MODEL 30



MODEL SP-20B

ACCESSORIES FOR GARRARD TURNTABLES



(1) COORDINATED BASES. With covered compartments for storage of full complement of spindles. Made of simulated ebony and walnut with silver trim. An attractive companion accessory which enhances the appearance of each Garrard model. Can be used on top of furniture or housed in cabinetry. Provisions for easy mounting of drawer slides have been built into the underside of the base. Wt. 3 lbs.
 No. 33A579. Model B1. For 20, 30, 40, 50, 55, 60 Series, SP20B, 40B, SL65B, and SL55B turntables. Each \$5.95
 No. 33A580. Model B2. For Zero 100; SL95B, SL75B, SL72B. Each \$6.95
 Model B1P and B2P are identical to bases above but automatically turns off amplifier when last record has played. Front mounted switch permits use of amplifier without changer.
 No. 33A581. Model B1P. For 20, 30, 40, 50, 55, 60 Series, SP20B, 40B, SL65B and SL55B. Net Each \$14.95
 No. 33A582. Model B2P. For Zero 100, SL95, SL75, SL72B. Each .. \$15.95

(2) DELUXE WOOD BASE. Hand rubbed solid walnut covered storage compartment. (D2 dust cover fits both models) Wt. 4 lbs.
 No. 33A646. Model WB1 for 20, 30, 40, 55, 60, 65 Series, SP20B, 40B, SL65B, and SL55B, and 30. Each \$19.95
 No. 33A645. Model WB2 for Zero 100, SL95B, SL75B, SL72B. Each .. \$19.95

(3) MOUNTING BOARDS. Smooth sanded unfinished wood mounting boards. Overall size 16 x 18". For use in cabinet mounting. Can be trimmed to size.
 No. 33A533. MB10. For 20, 30, 40, 55, 60, 65 Series SL65B, SL55B. Ea. \$2.25
 No. 33A567. MB11. For Zero 100, SL95B, SL75B, and SL72B. Each .. \$2.25
 (4) COORDINATED DUST COVERS. Slides on bases even when vertical space is limited by bookshelf, etc. Can be in place while stack of records are playing. Fits only coordinated bases listed at left. Wt. 2 lbs.
 No. 33A584. Model D2. For Zero 100, SL95B, SL75B, SL72B, also WB1 and WB2 bases. Each \$6.95
 No. 33A583. Model D1. For SL65B, SL55B, 42 M/s, 40B, 30, SP20B, or any B1 or B1P base. Each \$5.95
 (5) 45 RPM AUTOMATIC SPINDLES.
 No. 33A689. LRS100. For Zero 100. Each \$3.80
 No. 33A643. FLRS35. For SL65B, SL55B, 40B, 30 SLX2, X10. Each ... \$2.25
 No. 33A547. LRS25. For SL95B, SL75B, SL72B, SLX3. Each \$3.80
 No. 33A644. F40. For X11. Each \$2.25
 EXTRA CARTRIDGE CLIPS
 No. 33A543. C1. For SL75, SL75B. Each \$2.25
 No. 33A544. C2. For SL95, SL95B, SL72B, SL65B, SL55B, 40 B, SP20B. \$2.25
 No. 33A690. C3. For Zero 100. Each \$3.00

Garrard

AUTOMATIC TURNTABLES

EVERYTHING YOU NEED . . . COMPLETELY
SET-UP AND READY TO PLAY!

NEW Garrard MODEL 42 M/S 3-SPEED TURNTABLE

Incorporates the latest features! Cartridge head, tone arm and record mat are styled similar to the Zero-100. Lightweight aluminum tone arm and precision adjustable anti-skate control permit excellent tracking at low stylus forces. Extra-large turntable supports entire surface of disc while damping speed variations to a minimum. New type damped cueing and pause control separates needle from groove and brings them back together gently . . . to protect your fine recordings. Features automatic play of single record. High-quality SHURE M75ECS elliptical magnetic cartridge comes completely pre-set and balanced for lightweight tracking. Complete with B1 base and Shure cartridge. Shpg. wt. 15 lbs.

No. 33A713. Model 42M/S. Each \$64.95
No. 33A714. F45.45 RPM AUTOMATIC SPINDLE for above. Each . . \$2.25



Garrard

NEW MODEL SLX-2 FAMOUS SYNCHRO-LAB TURNTABLE

Garrard 3-speed synchronous automatic turntable complete with fine quality high compliance magnetic cartridge pre-mounted on coordinated base, ready to plug into components and play. Tracking force has been pre-set (a stylus pressure gauge is built into tonearm). Has cueing and pause control. Interchangeable spindles: convenient short spindle for playing single records manually; long center drop spindle for automatic play. Adapter supplied for single play of 45 RPM records. Spindle removes for safety. Combined speed and size selector for 33, 45 and 78 RPM, 12", 10" and 7" records. Size: left to right 15"; front to rear 13 1/4", 7 3/4" high. Wt. 14 lbs.

No. 33A585. SLX-2 Changer complete with Cartridge.
Mounted on Base, with Dust Cover. Net Each \$79.50



Garrard

X-10 3-SPEED AUTOMATIC TURNTABLE MODULE

The ideal turntable module that fits the system for the young at heart. Features diamond ceramic cartridge with flipover stylus installed; with base and matching dust cover. The entire record-playing source pre-assembled, wired, ready-to-plug into table radios, FM stereo radios, budget component systems, TV sets, tape recorders, and cassette machines, and as a replacement in brand name consoles. Has low-mass, pencil thin tubular aluminum tone arm of advanced design. A convenient single lever cueing and pause control for both manual and automatic play. Two interchangeable spindles: long (for automatic play) short (for manual play). Size: 15"W. x 13 1/4"D. x 7 3/4"H. Shpg. wt. 17 lbs.

No. 33A648.
Net Each \$59.95



CONTEMPORARY STYLE ALL-PURPOSE CABINET

\$29⁸⁸

Truly fine furniture, the ideal credenza for stereo components, records or as a TV stand, room divider, or liquor cabinet. A perfect match for any decor. Sturdy wood frame construction laminated with "pervaneer" woodgrain finish. Store as many as 300 LP's or plenty of books and tapes behind contour-molded sliding doors. Removable record dividers keep LP's upright. Easy to assemble. Cabinet is shipped knocked down (not mailable). Size 19H x 40W x 16"D. Shpg. wt. 29 lbs.
No. 33A8521. Model 697. Each \$29.88

NEW **Dual** PROFESSIONAL AUTOMATIC TURNTABLES

**1¢ SALE
EXTRA BONUS**

**YOUR CHOICE OF
MOST POPULAR
CARTRIDGES
ONLY 1¢ MORE!**



**Shure M93E Reg. \$39.95
Pickering V15/ATE
Reg. \$39.95**

NEW **Dual** 1229

- 15° TRACKING.
- TRUE GIMBAL SUSPENSION.
- "PITCH" CONTROL.
- FEATHER TOUCH CUEING.
- SEPARATE CONICAL AND ELLIPTICAL ANTI-SKATE.
- TRACKING PRESSURE NOW CALIBRATED TO 0.1 GRAM



\$199⁵⁰

LESS CARTRIDGE AND BASE

optimum positioning. Plays all 33 $\frac{1}{3}$, 45, and 78 RPM records manually or automatically. Multiple play spindle holds up to 6 records. Size: 10 $\frac{1}{2}$ " x 12 $\frac{3}{4}$ "; 6" above mounting board; 3" below mounting board. Shpg. wt. 30 lbs. No. 33A715. Dual 1229. Less Cartridge and Base.

\$199.50

Each	No. 33A721. 1229 with Shure M93E Elliptical Cartridge. Each	\$199.51
	No. 33A722. 1229 with Pickering V15/ATE Cartridge. Each	\$199.51
	No. 33A723. 1229 with Shure M91ED Cartridge. Each	\$204.50
	No. 33A724. 1229 with Pickering V15/ATE Cartridge. Each	\$204.50

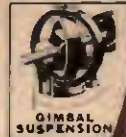
GREATEST VALUE AUTO/PROFESSIONAL TURNTABLE

THE FAMOUS **Dual** 1218

- TWIN RING GIMBAL SUSPENSION.
- DAMPED CUE CONTROL.
- ONE-PIECE 4 LB. PLATTER.
- MODE SELECTOR FOR 15° TRACKING.
- SYNCHRONOUS MOTOR.
- CLICK-STOP COUNTERBALANCE.

\$155⁰⁰

LESS CARTRIDGE AND BASE



The Dual 1218 offers a wide range of design and operating features. Twin ring gimbal suspension with tonearm centered within axis at each ring, pivots vertically from inner ring, horizontally from outer ring. High starting torque with absolute speed constancy from a synchronous motor drives a dynamically balanced 4 lb. platter. Unique mode selector on cartridge housing provides perfect 15° tracking angle. Anti-skate is calibrated for elliptical and conical styli. Rotating single play spindle. Damped cue control and

damped check-stop counter balance. Jamproof tonearm. 3 speeds: 33 $\frac{1}{3}$, 45 and 78 RPM. Size: 13" x 10 $\frac{3}{4}$ x 6" above mounting board, 3" below mounting board. Wt. 30 lbs.

No. 33A691. Dual 1218. Less Cartridge and Base. Each **\$155.00**

No. 33A692. Dual 1218 with Pickering V15/ATE Cartridge	\$155.01
No. 33A693. Dual 1218 with Shure M93E Cartridge	\$155.01

THE NEW **Dual** 1215-S

- NEW LOW MASS TUBULAR TONEARM.
- SYNCHRONIZED TRACKING.
- HIGH TORQUE MOTOR. • PITCH CONTROL.
- SAME ANTI-SKATE CONTROL AS 1218 AND 1229.
- SEPARATE CONICAL AND ELLIPTICAL CALIBRATIONS.

\$109⁵⁰

LESS CARTRIDGE AND BASE

Dual precision features and quality now available in the medium price range. The Dual 1215-S shares many of the precision features of the more costly Dual Models. Features low-mass counterbalanced tubular tonearm which tracks flawlessly as low as 1 gram. Direct-dial tracking force and synchronized anti-skating. Pitch control for all 3 speeds. Silicone-damped cue-control. Feather touch slide switch for automatic start and stop functions. Multiple play spindle holds up to six records. Handles 33 $\frac{1}{3}$, 45 and 78 RPM records manually or automatically. Hi-torque mo-

tor holds speed constant within 0.1% even when voltage varies $\pm 10\%$. Adjustable stylus overhang. Size: 10 $\frac{1}{2}$ " x 12 $\frac{3}{4}$ "; 6" above mounting board; 3" below mounting board. Wt. 30 lbs.

No. 33A716. Dual 1215-S. Less Base and Cartridge.

\$109.50

Each	No. 33A725. 1215-S with Shure M93E Cartridge. Each	\$109.51
	No. 33A726. 1215-S with Pickering V15 ATE Cartridge. Each	\$109.51



GENUINE **Dual** ACCESSORIES



This deluxe Dual base, WB19X, styled in Walnut, provides a fitted accessory panel by flipping open the front. It has a special place to secure every spindle made for your Dual 1219 including the automatic spindle for large hole 45 RPM records. It also holds and protects two mounted cartridges. Supplied less accessories. Size 14 $\frac{1}{2}$ x 17 x 3 $\frac{1}{2}$ ". The matching Deluxe Dust Cover, Model DC-9X offers distinctive styling and a hinged front section which conveniently folds up partially or completely providing instant access to all operating controls.



Custom-crafted walnut base is fully enclosed and mitered on all edges. $\frac{1}{8}$ " thick, smoke tinted matching plexi-glass dust cover is self-hinged for easy tilting or removing. Base size: 14 $\frac{1}{2}$ x 16 $\frac{3}{8}$ x 4". total height: base and cover, 7 $\frac{3}{4}$ ". No. 33A696. DCB-6. Deluxe Combination Base and Dust Cover for 1229. **\$39.95**

No. 33A694. WB19X Deluxe Walnut Base for Dual 1229. Each	\$29.95
No. 33A695. DC9X Deluxe Dust Cover for Dual 1229. Each	\$29.95
No. 33A660. WB19 Standard Walnut Base for Dual 1229. Each	\$14.95
No. 33A662. DC-9 Standard Dust Cover for Dual 1229. Each	\$14.95

No. 33A697. DCB-6. As above but for 1218 and 1215-S.	\$39.95
No. 33A658. WB-12. Standard Walnut Base for 1218 and 1215-S. Each	\$10.85
No. 33A717. DC-4. Standard Dust Cover for 1218 and 1215-S. Each	\$12.95
No. 33A698. CH-12. Cartridge Holder for 1215, 1209, 1229, and 1219. Ea.	\$3.95
No. 33A699. CH-22. Cart. Holder for 1218, w/15° angle selector. Ea.	\$9.95
No. 33A663. AS-12. Auto 45 RPM Spin. for 1209, 15, 18, 19, 29. Ea.	\$6.95
No. 33A664. AW-3 12" Auto Spindle for 1209, 15, 18, 19, 29. Ea.	\$7.70
No. 33A665. MS-1. Manual Spindle for 1215. Each	95¢
No. 33A666. RS-1. Rotating Manual Spindle for 1209, 1218, 1219, 1229. Ea.	\$1.95

FINEST STEREO HIGH FIDELITY CARTRIDGES



MOST POPULAR SHURE STEREO CARTRIDGES

① SHURE V-15 TYPE II IMPROVED DYNETIC WITH ELLIPTICAL STYLUS

A vastly superior cartridge designed for the most critical audiophile. Manufactured under newly developed, unprecedented controls, inspections and techniques to provide "perfectionist" reproduction quality. Elliptical stylus tracks at 15°, retracts into cartridge when accidentally dropped or bounced. Built-in stylus guard. Response 20-25,000 Hz.; output 3.5 MV; separation 25 db; diamond stylus dimensions .0007" x .0002". Tracking force 3/4 to 1 1/2 grams. No. 33A5002. Each\$67.50

NEW SHURE DELUXE HI-TRACKABILITY CARTRIDGES

Optimized design parameters in the stylus assembly give these new cartridges superb high frequency trackability, and overall performance second only to the incomparable V-15 Type II (improved). The excellent performance characteristics of these cartridges make them suitable choices for use in four channel un-coded (matrix) playback systems. Tracking force: 3/4 to 1 1/2 grams. Frequency response: 20 to 20,000 Hz. Separation: 25 db.

- ② No. 33A5080. M91ED. Biradial .0002" x .0007". Each\$54.95
- ③ No. 33A5081. M91GD. Spherical .0006". Each\$44.95
- ④ No. 33A5082. M75ED Type 2. Similar to M91ED but offers a built-in snap-down stylus guard. Each\$54.95

⑤ SHURE M91E HI-TRACK ELLIPTICAL CARTRIDGE

Excellent trackability in the 3/4 to 1 1/2 grams range. Designed for use in high quality manual and automatic turntables. Biradial .0002" x .0007". Tracking force: 3/4 to 1 1/2 grams. Frequency response: 20 - 20,000 Hz. Separation: 25 db. Shpg. wt. 6 oz. No. 33A5063. M91E. Each\$49.95

⑥ SHURE M75G TYPE 2

Has the same specifications as the M91E but features a .0006 spherical stylus, with a built-in snap-down stylus guard. No. 33A5083. M75G Type 2 Each\$38.45

⑦ SHURE M75 Type 2

Series of cartridges deliver excellent trackability at moderate tracking forces between 1 1/2 and 3 grams, making them ideal choices for moderately priced systems and for upgrading older systems. Choice of biradial or spherical styli. Both cartridges feature a built-in, snap-down stylus guard. Tracking force: 1 1/2 to 3 grams. Frequency response: 20 to 20,000 Hz. Separation: 25 db. No. 33A5085. M75EJ. Biradial, .0007" x .0004". Each\$44.95
No. 33A5084. M75B. Spherical, .0006". Each\$33.45

⑧ SHURE M93E HI-TRACK ELLIPTICAL CARTRIDGE

Easy-mount design like M91E above. Hi-Track elliptical in the 1 1/2 to 3 gram tracking force range. An outstanding performer in automatic or manual turntables. Bi-radial .0004" x .0007" diamond stylus. 20-20,000 Hz. Separation 25 db @ 1 KHz. Tracking force range 1 1/2 to 3 grams. No. 33A5062. Wt. 6 oz. Each\$39.95

⑨ SHURE M75-6S CARTRIDGE

Same as M93E cartridge listed above but with a .0006" spherical stylus. Shpg. wt. 6 oz. No. 33A5061. Each\$27.50

⑩ SHURE M55E DYNETIC WITH ELLIPTICAL STYLUS

Developed for use in fine quality high fidelity systems with tone arms designed to track at 3/4 to 2 grams. Produces astonishing distortion free sound. Diamond elliptical stylus retracts into cartridge when excessive force is applied. Tracking angle 15°, response 20-20,000 Hz.; 6 MV output at 1,000 cps; separation over 25 db; stylus dimensions .0009" frontal radius, .0002" side contact radii. No. 33A5004. Each\$29.95

⑪ SHURE M44E DYNETIC WITH ELLIPTICAL STYLUS

Designed for use in automatic turntables requiring a cartridge that will track in the 1 3/4 to 4 grams range. Diamond stylus tracks at 15°, retracts into cartridge when excessive force is supplied. Response 20-20,000 Hz.; separation 25 db; 9.3 MV output. Stylus dimensions .0004" x .0007". No. 33A5005. Each\$24.95

⑫ SHURE M44-7 DYNETIC

Freq. resp: 20-20,000 HZ. Output voltage: 1000 HZ at SCM/Sec. 11 millivolts per channel. Channel separation: more than 25 db at 1000 HZ. Recommended load impedance: 47,000 ohms per channel. Inductance: 720 millihenries. DC resistance: 630 ohms. Terminals: 4 (with loop pin for 3 terminal connections). Weight, 7 grams. Mounting standard 1/2". Tracking weight 1 1/2 to 3 grams. With .0007 inch radius diamond stylus. No. 33A5000. Each\$19.95

MODEL SFG-2 STYLUS FORCE GAUGE



The ideal way to have your tone arm set to exactly the correct tracking force. Detects both excessive or insufficient tracking forces. Accuracy to within 1/10 gram in the 1/2 to 1 1/2 gram primary operating range; extended range to 3 grams. No. 33A6669. Model SFG-2. Each\$4.95

PICKERING STEREO CARTRIDGES

XV-15 SERIES. "Top of the line" magnetic cartridges designed for superb performance. Extremely linear frequency response curve with low tip mass. Both have Dustomatic brush hinged directly to stylus assembly which never interferes with tracking force and V-guard replaceable stylus assembly.

- ① XV-15/750E. For the very finest equipment, 1/2 to 1 gram tracking force. .0002" x .0009" elliptical diamond stylus. Response 10-25,000 Hz. Separation 35db. No. 33A5078. Shpg. wt. 3 oz. Each\$65.00
- ② XV-15/400E. For light tracking automatic and manual turntables. 3/4 to 1 1/2 grams tracking force. .0003" x .0009" elliptical diamond stylus. Response 10-25,000 Hz. Separation 35 db. No. 33A5008. Shpg. wt. 3 oz. Each\$54.95
- V-15 PHASE IV SERIES. Micro-magnetic cartridges with V-Guard floating stylus and Dustomatic cleaning brush. Extremely flat frequency response. low mass stylus for increased needle and record life.
- ③ V-15/AME PHASE IV. Has .0003" x .0009" elliptical diamond stylus. Response 10-25,000 Hz. Separation 32db. Tracking force 3/4 to 1 3/4 grams. No. 33A5009. Shpg. wt. 3 oz. Each\$49.95
- ④ V-15/AM PHASE IV. Has .0007" conical diamond stylus. Response 10-23,000 Hz. Separation 32db. Tracking force 1 to 3 grams. No. 33A5010. Shpg. wt. 3 oz. Each\$34.95
- ⑤ V-15/ATE PHASE IV. Has .0004" x .0009" elliptical diamond stylus. Response 10-23,000 Hz. Separation 32db. Tracking force 2-5 grams. No. 33A5011. Shpg. wt. 3 oz. Each\$39.95
- ⑥ V15/AT PHASE IV. Has .0007" conical diamond stylus. Response 10-20,000 Hz. Separation 32 db. Tracking force 2 to 5 grams. No. 33A5012. Shpg. wt. 3 oz. Each\$29.95

Stk. No.	Model	Tracking	Stylus	Diamond	Net Ea.
⑦ 33A5013	V15/ACE-3	3-5 Grams	Elliptical	.9x.4 Mil	29.95
⑧ 33A5014	V15/AC-3	3-7 Grams	Conical	.7 Mil	24.95

REPLACEMENT DIAMOND NEEDLES FOR POPULAR MAGNETIC CARTRIDGES

Stk. No.	Type	Make	For Cart. No.	Tip	Net Ea.
33A5025	D3807AT	Pickering	U38AT	.7 Mil	12.95
33A5026	D1507AM-3	Pickering	V15/AM-3	.7 Mil	15.75
33A5027	D1507AT-3	Pickering	V15/AT-3	.7 Mil	14.50
33A5028	D1500AME-2	Pickering	V15/AME-2	.9x.2 Ell	20.95
33A5029	D1507AT-2	Pickering	V15/AT-2	.7 Mil	11.50
33A5030	D1500ATE-2	Pickering	V15/ATE-2	.9x.4 Ell	18.95
33A5015	N3D	Shure	M70-M3D	.7 Mil	57.95
33A5016	N21D	Shure	M3D	.7 Mil	11.00
33A5017	N55E	Shure	M55E	.9x.2 Ell.	14.95
33A5018	N44E	Shure	M44E	.7x.4 Ell.	12.50
33A5001	N44-7	Shure	M44-7	.7 Mil	9.75
33A5021	N31E	Shure	M31E	.7x.2 Ell.	14.95
33A5022	N32E	Shure	M32E	.7x.4 Ell.	14.50
33A5065	N91E	Shure	M91E	.7x.2 Mil	24.50
33A5066	N93E	Shure	M93E	.4x.7 Mil	19.50
33A5068	N75-6	Shure	M75	.6 Mil	11.35
33A5086	N91ED	Shure	M91E, -ED, M92E	.7x.2 Ell.	\$26.00
33A5087	N91GD	Shure	M91GD	.6 Mil	21.50
33A5088	N75ED Type 2	Shure	M75E, -ED, Tp. 2	.7x.2 Ell.	26.00
33A5092	N91G	Shure	M91, 92, 93 Series	.6 Mil	14.50
33A5089	N75G Type 2	Shure	M75G Tp. 2	.6 Mil	19.25
33A5090	N75EJ Type 2	Shure	M75EJ Tp. 2	.7x.4 Ell.	22.50
33A5091	N75B Type 2	Shure	M75B Type 2	.10 Mil.	16.75
33A5020	VN15E (improved)	Shure	V-15 Type II	.7x.2 Ell.	27.00

Upgrade Your Old Shure Cartridge by replacing your old stylus with a higher quality stylus assembly. Get better overall frequency response and high trackability resulting in less distortion and truer reproduction.

Cartridge Is	and You Install	You'll Have	Tracking Force (grams)
V-15II	VN15E (improved)	V15II (improved)	3/4-1 1/2
M91E	N91ED	M91ED	3/4-1 1/2
M92E	N91E or N91ED	M91E or M91ED	3/4-1 1/2
M75E	N75ED Type 2	M75ED Type 2	3/4-1 1/2
M75G	N75G Type 2	M75G Type 2	3/4-1 1/2
M75-6	N75B Type 2	M75B Type 2	1 1/2-3

B-A SPECIAL VALUE!

FAMOUS SHURE M3D STEREO MAGNETIC CARTRIDGE



SAVE \$7.80
REG. \$15.75
\$7.95

Perfect replacement for the popular Shure M7D, Pickering U38AT, Empire 880, or any other equivalent high fidelity stereo magnetic type cartridge. There is absolutely no compromise in quality or performance at B-A's special low, low price. Frequency response 20 to 20,000 Hz. 3-5 grams tracking. More than 20 db separation at 1000 Hz. Output voltage 5 mv per channel at 1000 Hz. Recommended load impedance: 47,000 ohms. Terminals: 4 terminals adaptable to 3 terminal arms. Uses Shure N3D or N21D standard replacement diamond needles. No. 33A5034. Special\$7.95

the sound approach to quality **KENWOOD**



NEW **KENWOOD**

*KR-2200 16-WATT (RMS)
AM/FM STEREO
RECEIVER

\$159⁹⁵
IN WALNUT
GRAINED CABINET

- Frequency Response 25-35,000 Hz \pm 2 db

Well worth its low, low price, the 2200 yields outstanding performance. The noise-free Field Effect Transistor and 3-gang variable tuning capacitor are put to use in FM frontend circuitry, resulting in exceptional gain and selectivity. Tuning is even easier with illuminated signal strength tuning meter. FM AUTO function selects only stereo broadcasts as you tune, lighting stereo indicator. Hefty power output provides plenty of big, full range sound to drive 2 sets of stereo speaker systems well above listening level. Speaker switch selects A, B, A+B or phones plus power on/off. Loudness switch provides low and hi frequency boost to keep response flat at low listening levels. Front pan-

- Mike/line mixing with front panel jack and level control

el microphone jack permits mixing with other input sources. Variable mike level increases flexibility in mike/line mixing. Striking new appearance includes luminous dial with illuminated pointer and simulated walnut finish. Continuous Power Output 8 watts (rms) per channel at 8 ohms, 50-20,000 Hz, (Both Channels Driven). Total Harmonic Distortion and Intermodulation Distortion 0.8% (at rated output). Freq. Resp. 25-35,000 Hz \pm 2 db. FM Sensitivity (IHF) 2.5 μ V, Signal/Noise = 60 db. AM sensitivity (IHF) 25 μ V, 110-120 VAC 50/60 Hz. Size: 4 3/4" H. x 17-5/8" W. x 15 1/2" D. Shpg. wt. 16 lbs.

No. 33A730. Model KR-2200. Each **\$159.95**

MATCHING KENWOOD AMPLIFIER AND AM/FM STEREO TUNER

KENWOOD *KA-2002 34 WATT (RMS)
SOLID STATE STEREO AMPLIFIER



- FULL 2 YEAR WARRANTY ON PARTS & LABOR

\$119⁹⁵

- Frequency response: 20 to 30,000 Hz \pm 2 db.
- Power 17 watts per channel RMS continuous at 8 ohms.
- Separate bass, treble and volume controls.

Miniature module and companion to the KT2001, this mighty mite offers an excellent low budget opportunity to enjoy the immeasurable improvement achieved with separate components.

Specifications: H.D. less than .8% at rated output. IM distortion less than .8% at rated output. Inputs: Phono (2mV), Aux. tuner (150 mV), Tape play (150 mV). Hum and Noise: phono 60 db. Step type tone controls. Outputs: speaker 4, 8 ohms, tape rec., phono jack, AC outlet. Switch: input selector, loudness control, mode, tape monitor power. Power consumption 110-120 V, 50/60 Hz.

Size: 13" W. x 5" H. x 9 1/2" D. Wt. 12 lbs.

No. 33A471. Net Each.

No. 33A468. Matching Walnut Enclosure

\$119.95

..... \$15.00

KENWOOD *KT-2001 AM/FM
SOLID STATE STEREO TUNER



- FULL 2 YEAR WARRANTY ON PARTS & LABOR

\$119⁹⁵

- Large Tuning Meter, Stereo Indicator Light.
- Frequency Response: FM 20 Hz to 15,000 Hz.

Diminutive darling of the Kenwood line... size not withstanding, KT2001 delivers excellent stereo reception and offers all the delights of separate components. Ideal for use with KA-2002 amplifier or for any existing stereo system.

Specifications: Useable sensitivity 2 mV. Freq. resp. 20-15,000 Hz. \pm 0 -2 db. H.D. less than .7%. S/N ratio better than 60 db. at 100% modulation. Stereo separation better than 30 db at 1,000 Hz. Output voltage 1 V. Output impedance 300 and 75 ohms. Features stereo noise filter, FM stereo/mono auto switching. AM section: sensitivity (IHF) 25 mV. Selectivity (IHF) better than 25 db. Power consumption 110-120 V, 50/60 Hz. Dimensions: 13" W. x 5" H. x 9 1/2" D. Wt. 9 1/2 lbs.

No. 33A470. Net Each.

No. 33A468. Matching Walnut Enclosure.

\$119.95

..... \$15.00

NEW **KENWOOD** *KSQ-400
4 CHANNEL ADAPTER/
24 WATT REAR AMPLIFIER



- FULL 2 YEAR WARRANTY ON PARTS & LABOR

\$159⁹⁵
COMPLETE WITH CABINET

- Complete Decoder with QUADRIX and SQ Systems
- Converts any stereo system to 4 channel

Your present stereo system is reborn with the addition of the KSQ-400 and two speakers. Provides all of the realism of the concert hall by recovering hidden sounds inherent in all music. Has two-channel amp and preamp that provide big power to match the best stereo receivers for all-around balanced sound. 4-CH. AUX Mode permits connection of discrete 4 channel tape sources. Unique SQ Mode delivers 4 channel sound from encoded "SQ Matrix" phonograph records. QUADRIX Mode employs the dematrixing technique to bring full Concert-hall presence from conventional 2 channel stereo record, tape and broad-

cast signals. 2 CH mode delivers unaltered 2 channel sound to the rear speakers. Has balance controls for right to left and front to rear plus bass and treble for rear channels. Also has four mode indicators, tape monitor switch and master volume control. Continuous Power Output 12 watts (rms) per channel with both channels driven at 8 ohms. 110 VAC 60 Hz. Size: 4" H. x 13" W. x 10" D. Shpg. wt. 14 lbs.

No. 33A737. Model KSQ-400. Each **\$159.95**

• Two Year Parts and Labor Warranty On ALL Kenwood... Just Return To Nearest Warranty Station

NEW KENWOOD KR-3200*
27 WATT (RMS) AM/FM STEREO
RECEIVER



- DIRECT COUPLED OUTPUT WITH OVERLOAD PROTECTION.
- LARGE ILLUMINATED SIGNAL STRENGTH TUNING METER

\$229⁹⁵

Excellent candidate for the heart of your fine stereo component system. Full complement of functions provides greater versatility. Latest design FM section utilizes Double-Switching Demodulator circuitry in the multiplex stage, with special block filter, to minimize carrier leak and improve stereo separation. Linear-frequency type variable condenser results in equally graduated FM dial scale for easy, accurate tuning. Giant illuminated tuning meter permits pinpointing of station by signal strength. Direct coupling in the power amplifier stage gives superior response linearity and minimal distortion. High reliability protection circuit prevents damage to output transistors from power overload. Output stages supply 13½ watts (rms) per channel at any frequency from 50 to 20,000 Hz to drive two pairs of large speaker systems well above normal listening level. Speaker switch has A, B, A+B and spkr. off positions. Stereo-phonograph jack provided. Mono Stereo mode, tape mon., loudness, noise filter and power on/off switches provided as well as volume, bass, treble, balance controls, speaker and function selectors. Continuous Power Output 13½ watts (rms) per channel at 8 ohms, 50-20,000 Hz, Both Channels Driven. Total Harm. Dist. and Intermod. Dist. 0.8% (at rated output). Freq. Resp. 25-35,000 Hz ± 2 db. FM sensitivity (IHF) 2.3 uV, Signal/Noise = 63 db. AM sensitivity (IHF) 25 uV. 110-120 VAC, 50/60 Hz. Size: 5¾" H. x 17½" W. x 13-5/8" D. No. 33A731. Shpg. wt. 20 lbs.

Model KR-3200. Each **\$229.95**

NEW KENWOOD KR-4200*
38 WATT (RMS) AM/FM STEREO
RECEIVER



- FM MUTING TO SILENCE INTER-STATION NOISE.
- HAS COMPLETE CIRCUITRY AND SWITCHING FOR 2 TAPE DECKS.

\$279⁹⁵

Kenwood quality, tested and proven, is an integral part of the KR-4200 receiver with direct coupled power amplifiers, double switching demodulator circuitry in MPX stage, frequency-linear tuning condenser and fail-safe output transistor protection. Provides terrific power to drive even two pairs of large complex multi-speaker systems with full range sound. Output circuits develop 19 watts (rms) per channel with both channels driven at any frequency between 50 and 20,000 Hz into 8 ohm loads. FM section boasts 2.0 microvolts sensitivity to get those distant or low-power stations clearly. Large illuminated tuning meter and linear FM dial permit quick and easy tuning with greatest accuracy. When not tuning extremely weak stations, the FM muting feature eliminates noise between stations. "TAPE A" has both phono and DIN jacks, "TAPE B" has phono jacks only. Tape monitor switches for each are mounted on front panel. Also two sets of AUX inputs are provided. Loudness control compensates for low and high frequency losses at low listening levels. Also has noise filter, speaker selector (A, B, A+B, and spkr. off), balance, volume, bass and treble controls and stereo/mono mode. C.P.O. 19+19 watts (rms) B.C.D. at 8 ohms. THD and IMD 0.7% (at rated output). Freq. Resp. 20-35,000 Hz ± 2 db. FM sensitivity (IHF) 2.0 uV, S/N = 63 db. AM sensitivity (IHF) 15 uV. 110-120 VAC 50/60 Hz. Size: 5¾" H. x 17½" W. x 13-5/8" D. No. 33A732. Model KR-4200. Shpg. wt. 23 lbs. Each **\$279.95**

NEW KENWOOD KR-5200*
60 WATT (RMS) AM/FM STEREO
RECEIVER



- WIDE DIAL LINEAR SCALE.
- DUAL GATED FET FRONT END AND 4 GANG TUNING.
- 3-SYSTEM SPEAKER SWITCHING.

\$349⁹⁵

The super-power KR-5200 offers extra special features for quality and convenience. Direct-coupled power amplifier stage is free from distortion generated by output transformers. Power transistor overload is prevented by highly reliable protection circuitry. With both channels driving 8 ohm loads, the KR-5200 develops 30 watts per channel (rms) at any frequency from 20 to 20,000 Hz for more than adequate power to drive 3 pairs of speakers. Speaker switch selects A, B, C, A+B, A+C, or spkr. off. Has 2-system tape capability with Rec. & Play jacks installed on front panel for convenience. Flawless FM performance with double switching demodulator and special block filter for minimum carrier leak and improved stereo separation. Dual gate-type FET front end and 4-gang frequency-linear tuning capacitor give low-noise high sensitivity tuning ability. Integrated circuitry and 3 element mechanical IF filter provide improved selectivity and capture ratio. FM muting and large illuminated tuning meter permit quiet dialing and pinpoint tuning of stations. Controls and switches include: power on/off, speaker selector, bass, treble, mode (right, left, stereo, rev., mix), tape mon A&B, muting, 10 filter, hi filter, function selector, vol/bal. C.P.O. 30+30 watts (rms), B.C.D. @ 8 ohms. THD and IMD 0.5% (at rated output) Freq. resp. 20-40,000 Hz ± 2 db. FM sensitivity (IHF) 1.8 uV, S/N = 65 db. AM sensitivity (IHF) 15 uV. 110-120 VAC 50/60 Hz. Size: 5" H. x 17" W. X 14" D. No. 33A733. Model KR-5200. Shpg. wt. 30 lbs. Each **\$349.95**

NEW KENWOOD KR-6200*
90 WATT (RMS) AM/FM STEREO
RECEIVER



- DUAL GATED FET'S FOR STATION GRABBING 1.7 uV SENSITIVITY.
- MID-RANGE TONE CONTROL.
- TWO LARGE ILLUMINATED TUNING METERS.

\$399⁹⁵

A receiver of regal distinction, the choice of discriminating audiophiles. FM section is truly a precision tuning instrument with unique double switching system in MPX and block filter to minimize carrier leak. Frequency-linear 4-gang tuning capacitor not only gives unbeatable selectivity but reduces "bunching" of stations on the dial. Low noise and high sensitivity are provided by use of FET's in front end circuits. 3-element mechanical filter in IF stage improves capture ratio. Pinpoint tuning is easy with two large illuminated tuning meters. Direct coupling gives excellent full range response with negligible distortion. Continuous power output is a grand 45 watts per channel, at all frequencies from 20-20,000 Hz with 8 ohm loads and BOTH channels driven. Contour sound to fit your personal taste with 3 tone controls including midrange. Has circuits and tape monitor switching for two decks, one of which plugs into front panel. Also has front mic. jack for 50k ohm (hi imp.) mic. Switch and control complement includes power on/off, tape mon A&B, FM muting, loudness, low and high filters, bass, mid, treble, mode (left, right, stereo, reverse, mono), function selector (with aux 1, aux 2, and mic), volume/balance and tuning. C.P.O. 45±45 watts (rms) B.C.D. at 8 ohms. THD and IMD 0.5% (at rated output). Frequency Response 20-40,000 Hz ± 2 db. FM sensitivity (IHF) 1.7uV, S/N = 66 db. AM sensitivity (IHF) 15 uV. 110-120 VAC 50/60 Hz. Size: 5¾" H. x 17½" W. x 14" D. No. 33A734. Model KR-6200. Shpg. wt. 32 lbs. Each **\$399.95**

Sansui the world's finest receivers

FROM THE WORLD'S FOREMOST AUDIO-ONLY SPECIALIST ...
B-A's LOWEST PRICED, HIGH-QUALITY STEREO RECEIVER



Sansui 210 AM/FM/FM STEREO RECEIVER WITH 20 WATTS CONTINUOUS!

ONLY \$139⁹⁵

- Stylish Walnut wood cabinet included.
- Frequency response 25 to 30,000 Hz (± 2 db.)

- Fuse protection for power transistors.
- Silver gold aluminum extrusion panel with blackout dial.

A truly high quality receiver ... low in price but with many costly extras! Such as FET front end for flawless FM reception and selectivity with high signal-to-noise ratio and interference suppression. Silicon transistors throughout give noise-free performance. FM multiplex circuit offers channel separation above 30 db. (@ 1,000 Hz) with below 1% distortion. Large tuning meter gives instant reading of signal strength. Wide-dial linear FM scale spreads stations apart providing better spacing between stations. FM Auto function enables the 210 to switch from mono to stereo automatically when stereo station is tuned. Highly sensitive ferrite bar antenna pulls in AM stations with exceptional clarity. Output circuits are protected from burnout by quick-acting fuses.

Specifications: 10 watts (rms) per channel @ 8 ohms; total harmonic distortion less than 1% at rated output; amplifier frequency response 25-30,000 Hz. ± 2 db; hum and noise—phono 65 db, aux. 70 db; load impedance 4-16 ohms; FM sensitivity (IHF) 5.5 μ V. Controls: power switch, bass, treble, volume, tape monitor, loudness and function switches. Connectors: antenna AM and FM, phono input, aux. input, tape mon. input, record output, speaker outputs, switched and unswitched convenience outlets. 110/117/220/240 VAC 50/60 Hz. Complete with walnut wood enclosure. Size: 5"H. x 17 1/2"W. x 11 1/2"D. Shpg. wt. 16 lbs.

No. 33A36. Model 210. Each \$139.95

Sansui® TU-555

AM/FM/MPX STEREO TUNER

\$129⁹⁵

- Precision Engineered for Professional Performance.
- Advanced FET Circuitry.

Designed with precision engineering for professional performance incorporating every advancement made in audio engineering, the TU-555 offers features that larger, more expensive tuners often lack. Combines the latest FET circuitry with 3-gang tuning capacitor for new standards in FM sensitivity and selectivity. Completely automatic stereo switching and indication with high channel separation (35 db). Unique round tuning dial facilitates more accurate pinpointing of stations. Improved type noise canceler, unlike the conventional noise filter, eliminates noise without weakening high frequencies. All silicon 4 IF stages and



3 limiters prevent cross modulation and spurious image interference; muting stops noise for quieter station selection while tuning meter helps in optimum tuning. Also has local/distant antenna switch and built-in ferrite AM antenna. 2-position output level adjuster permits use of any control amplifier with optimum operating conditions. Sensitivity: 2.5 μ V (IHF), 2.0 μ V (20 db quieting). Impedance 10 K ohms. Uses 117, 220, -240 VAC 50/60 Hz. Size 4-3/8"H x 11-7/16"W x 10-5/8"D. Shpg. wt. 12 lbs.

No. 33A718. Model TU-555. Each \$129.95

Sansui® AU-505

50 WATT (RMS)
SOLID STATE INTEGRATED
AMPLIFIER

\$159⁹⁵

- Offers Luxurious Performance at Modest Cost.

A leader in its class, the AU505 integrated amplifier offers luxurious performance at modest cost; unmatched for tonal quality, versatility, ease of operation and economy. Superb tonal quality, low distortion and wide frequency response result from the exclusive use of low-noise silicon transistors. Truer reproduction is obtained by use of the all solid state semi-complementary Darlington OTL/ITL circuit. Big capacity choice output transistors are resistant to over-current, voltage and high temperature and protected by quick-acting fuses. Has terminals for two sets of speakers which can be played together or separately or turned off for headphone listening. Microphone jack provided for (50 K ohm) microphone use (monaural). Front panel DIN socket facilitates tape



deck connection. Tuner selector for instant switching to radio from other functions. Other controls include bass, treble, balance, volume, hi and lo filters, loudness, stereo/mono mode and tape monitor. Metal cabinet enhanced by walnut finished wood sides. CPO (rms) 25 watts per channel. THD less than 0.5% at rated output. IMD (60 Hz; 7,000 Hz = 4:1 SMPTE method) less than 0.5% at rated output. Frequency response 20 - 60,000 Hz ± 2 db. Impedance 4-16 ohms. Input sensitivity and impedance (@ 1,000 Hz): PHONO 3 mV (50 K ohms); MIC 4 mV (50 K); TUNER, AJX & TAPE MON. 200 mV (50 K). Power Supply 100, 117, 220, 240 VAC. 50/60 Hz. Size 4-5/8"H x 16"W x 11"D. No. 33A719. Model AU-505. Shpg. wt. 20 lbs. Each \$159.95

Sansui 350A
40 WATT (RMS)
AM/FM STEREO
RECEIVER

\$214⁹⁵



- High Quality - low noise silicon transistors.
- Beautiful crafted Walnut wood cabinet.

This is a quality receiver with virtually every refinement to be found in higher priced units and has all the power most music lovers will ever need. Plus outstanding FM reception with 4-stage IF amplifier and 3-stage limiter circuit, unique new noise canceler circuit, advanced FM multiplex circuit, automatic gain control, silicon devices and linear FM scale. These features combine to produce the utmost in quiet operation, interference rejection, stability and separation plus high selectivity with low distortion.

The power amplifier section of the 350A adapts a semi-complementary Darlingston circuit system for high power output with distortion at a low 1% or less... both over a bandwidth of 30-30,000 Hz. Output terminals are absolutely shortproof and require one touch only to secure each wire snugly, 2 sets of speakers can be connected, switchable from front. An elegant wood cabinet is standard equipment surrounding a silver control

- 4-stage FM IF section.

panel and "smoked black acryl" dial panel for a very sophisticated appearance. Specifications: 20 watts per channel continuous power output (rms) with 8 ohm load; harmonic distortion less than 1% at rated output, intermodulation distortion (60 Hz; 7,000 Hz = 4:1 SMPTE method); amplifier frequency response (at normal listening level) 30-30,000 Hz \pm 1 db; hum and noise (IHF) phono 65 db, aux. 70 db; load impedance 4-16 ohms; damping factor 45 (8 ohms); FM sensitivity (IHF) 3 μ V; FM capture ratio 3 db; FM antenna 300 ohm balanced -75 ohm unbalanced. Connectors: phono, aux., tape inputs, tape monitor outputs, AM and FM external antennas, speakers (2 pair), tape DIN jack and ground connector. Complete with walnut wood enclosure. Dimensions: 5 $\frac{3}{4}$ " H. x 16 $\frac{3}{8}$ " W. x 12 $\frac{1}{8}$ " D. Shpg. wt. 26 lbs.

\$214.95

No. 33A5. Model 350A. Each.....

Sansui 1000X
56 WATT (RMS)
AM/FM STEREO
RECEIVER

\$289⁹⁵



- 5-stage FM IF Amplifier.
- 28 Watts per channel - continuous.

The Sansui 1000X, encased in an elegant Walnut wood cabinet, is a complete, advanced stereo receiver. The FM tuner is capable of 2.0 μ V sensitivity through use of the Field Effect Transistor, in the front end, with a 4-gang variable capacitor. Just what you would expect in a more expensive unit.

The linear FM dial means easier selection from among adjacent stations. When in FM stereo position, the 1000X will automatically switch to stereo mode when stereo broadcasts are tuned, lighting the stereo indicator light. With 5 IF amplifiers and a 4-stage limiter circuit the 1000X attains maximum effectiveness in rejecting adjacent channel signals and noise resulting in optimum selectivity. FM muting switch maintains silence between stations while large tuning meter aids in precise tuning. Two tape monitor circuits offer greater versatility for copying, dubbing, or source recording. Pre-amp and main are independent so you can operate with the pre-amp and external power amp or use the power output with an external

- Attractive Walnut wood cabinet.
- Automatic Stereo/Mono switching.

reamplified source. Drive 2 pairs of speakers with front-switched A & B speaker outputs. FM antenna may be 75 ohm or 300 ohm. Specifications: 28 watts per channel continuous power output (1 @ 8 ohms); total harmonic distortion less than 0.8%, intermodulation distortion (60 Hz; 7,000 Hz = 4:1 SMPTE) less than 0.8%—both at rated output; Amplifier frequency response 15-40,000 Hz \pm 1 db; hum and noise phono 70 db, aux. 75 db; load impedance 4-16ohms; FM sensitivity 2 μ V (IHF). Controls: Power switch, speaker switch, bass, treble, volume, balance; lever switches for hi filter, loudness, stereo/mono mode, tape monitor 1 & 2 and FM muting, rotary function selector. Connectors: tape rec (1 & 2) and mon (1 & 2); DIN tape mon and rec (1), phono & aux. inputs, speaker outputs (A & B), AM & FM antenna, switched convenience outlet, 117V AC (and 7 others) 50/60 Hz. Dimensions: 5 $\frac{3}{4}$ " H. x 16 $\frac{1}{2}$ " W. x 12 $\frac{1}{8}$ " D.

\$289.95

No. 33A489. Shpg. wt. 28 lbs.
Model 1000X. Each.....

Sansui SEVEN

80 WATT (RMS)
AM FM STEREO
RECEIVER

\$459⁹⁵



- Ultra high quality Tuner/Amplifier.
- Amazingly low distortion figures.

The Sansui SEVEN with professional look and superior quality possesses all the features of any fine receiver and more. For example midrange tone control in addition to bass and treble controls (all calibrated from -15 dB to +15 dB) give you the opportunity to contour sounds with never-before exactness. Dual tuning meters for high-precision tuning of stations by signal strength and discriminator center. The SEVEN stands ready for instant conversion to 4-channel and noise reduction systems with front panel switching provided including 2 tape monitor circuits. All direct-coupled amplifier stages and preamp with pure complementary output circuit means no transformers to generate distortion or alter input signals. Automatic self-restoring multiple-action circuitry prevents damage to power output transistors. MOS FET frontend, four-gang tuning and

- Outstanding 1.8 microvolt sensitivity.
- 4-channel and Dolby adaptable.

two RF stages give the SEVEN its 1.8 μ V sensitivity. Easy to tune with wide dial linear FM scale and adjustable muting feature. 3 sets of speakers may be connected. Speaker switch selects A, B, C, A&B, A&C, and off. Controls include: Volume, bass, treble, midrange, balance, speakers, loudness, low and high filters, mono/stereo mode, N.R. adaptor, tape mon 1 & 2, 4 ch. adaptor, FM muting, muting adjust. Continuous power output 40 watts per channel (rms) at 1,000 Hz both channels driven. T.H.D. 0.3% at rated output I.M.D. 0.3% at rated output. Frequency response 15-40,000 Hz, +1 dB, -1.5 dB. FM sensitivity 1.8 μ V, S/N = 63 dB. Power supply 110, 117, 220, and other voltages, 50/60 Hz. Size (approx.) 6" H x 18" W x 13" D. Shpg. wt. 40 lbs.

\$459.95

No. 33A720. Model Seven. Each.....



QR-1500
60 WATT (RMS) AM/FM
4-CHANNEL RECEIVER

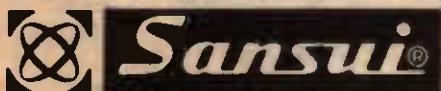
\$299⁹⁵

- A Big value at this low, low price!
- Dual-Gate MOS FET Frontend for high sensitivity and gain.

Get in on the ground floor with a Sansui 4-channel receiver. Combines the very latest of innovations never before available in a single package. The new revolution . . . 4-channel sound . . . is spreading like wildfire. The QR-1500 is a complete system requiring only four speakers and any mono, stereo or 4-channel program source. Priced within reach of today's dollar-conscious music buffs. Has full-power audio output through four separate 15 watt (rms) amplifiers with less than 0.8% harmonic distortion (at rated output). You also get Sansui's exclusive 4-channel Synthesizer Decoder section complete with a 4-channel synthesizing decoding matrix and phase shifter circuits that convert today's 2-channel tapes, discs and stereo broadcasts into lively 4-channel format and revert encoded material to its' original 4-channel form. Pre-recorded discrete 4-ch. tapes, etc. can be reproduced using 4 ch. input terminals. Uses



na mechanical devices for synthesis . . . all electronic. Independent slide controls for front and rear volume. Also bass, treble, loudness, tape monitor controls and function selector. 2-CH/4-Ch. mode selector rotates output location. Synthesizer decoder switch and 4-Ch. indicator. Comes with handsome black/chrome panel encased in walnut wood cabinet. Specifications: Amplifier section 15 watts continuous per channel (all four channels). 0.8% Harm. dist. IMD (60 Hz: 7,000 Hz. = 4:1 SMPTE method) 0.8%. Freq. response 30-30,000 Hz \pm 2 dB, Separation 50dB at 1,000 Hz, load impedance 4-16 ohms. FM: Sensitivity (20dB quieting) 2.3 μ V. S/N 55 dB. AM: Sensitivity 200 μ V at 1,000 KHz. MOS FET front end, signal strength meter. 4 element ceramic FM-IF filters. 100, 117, 220, 240 V 50/60 Hz. Size: 5 1/4" H x 19" W x 12 1/4" D. **\$299.95**
No. 33A57. QR-1500. Shpg. wt. 22 lbs. Each



QR-4500
108 WATT (RMS) AM/FM
4-CHANNEL RECEIVER

\$599⁹⁵

- High Quality Tuner/Amplifier
- Performs all Synthesizing Decoding Functions
- Big Power, Professional Styling

The QR-4500 starts with a high-performance control amplifier and a supersensitive stereo tuner but adds the capability to convert 2-channel stereo programs into the enrapturing new 4-channel format, decode matrixed quad sources and reproduce 4-channel discrete material. Unique phase shifter circuitry gives \pm 90 degrees phase change to left rear and \pm 90 degree to right rear for proper phase relationship among all four channels creating distinct sound images of original sound sources. Exclusive phase modulation gives phenomenal effect of reflected sound. Synthesizer Decoder selector permits simple switching of: CONCERT HALL 1 for orchestral or symphonic programs; CONCERT HALL 2 for synthesizing concert hall effect with small ensembles; SURROUND/DECODER puts you in the midst of the performers for popular and easy-listening music; 2-Ch. for regular 2-channel stereo sound from front speakers. Dual-gated MOS FETs and super precision 4-gang variable capacitor in the front end make the QR-4500 a receiver of superb quality with low distortion even under excessive input, greatly improved image ratio and above all, an exceptional 2.0 μ V(IHF) sensitivity for better fringe area reception. Linear FM scale reduces crowding of



stations on the dial. Terminals provided for two sets of four speaker systems. 3-way power transistor protection. 2 and 4 channel tape monitoring. Separate headphone jacks for front and rear. Controls: front and rear speaker selectors; front and rear bass and treble controls; three sliding balance controls for front, rear and front-to-rear; volume; 2/4 ch. mode; function selector; synthesizer/decoder selector; loudness; FM muting and 2/4 ch. tape mon. switches. Tuning meter and indicators for AM/FM and 2/4 channel operation. DIN and phono plug for tape rec./play. Continuous (rms) power output 27 watts per channel (all 4 ch's.); total harm. dist. 0.5% (rms) response 20-30,000 Hz \pm 1 dB. IMD 0.5% (60 Hz; 7,000Hz = 4:1 SMPTE method); separation 50 dB. Impedance 4-16 ohms. FM sensitivity 2.0 μ V (IHF). S/N 65 dB. Selectivity 70 dB. 100, 110, 117, 127, 220, 230, 240, 250, VAC. 50/60 Hz. Size: 6 3/4" H x 20-7/8" W x 12-5/8" D. Complete with walnut finished wood cabinet and AM bar antenna. Shpg. wt. 44 lbs.

No. 33A56. QR-4500. Each **\$599.95**

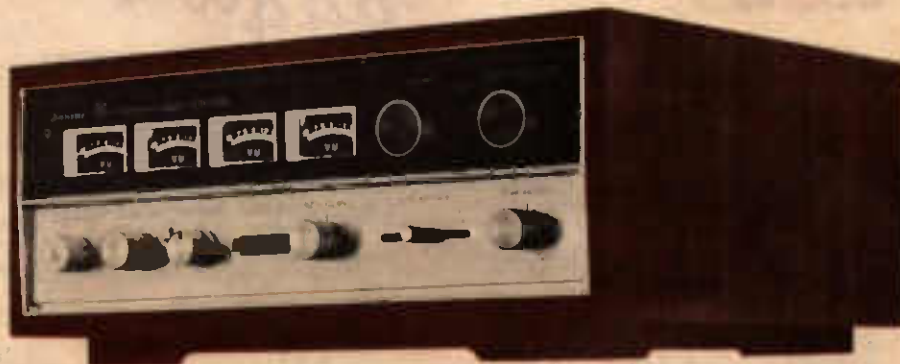


QS-500
66 WATT (RMS) 4-CHANNEL
CONVERTER/REAR AMPLIFIER

\$289⁹⁵

- Converts any stereo system (equipped with tape monitor) to 4-Channel.

Best bet for 2-Channel stereo owners with 4-channel ambitions. A feature-packed power amplifier 4-channel Synthesizer Decoder combination designed to let you parlay your present 2-channel system into a throughbred 4-channel system "overnight". With the QS-500 you can now convert your present 2-channel tapes, discs, and stereo broadcasts into richer 4-channel format. The result is a close approximation of vibrant sound fields as they are experienced at live performances. You only add a second set of speaker systems to your present setup. Also allows playing of 4-channel (discrete) tapes. Output stage is direct coupled . . . no output transformers to generate distortion. Performs most functions of QR-4500 above, has phase modulation and shift, all electronic circuitry and synthesizer decoder functions. Giant Vu meters permit easy level set-



ting of all 4 channels and input protection from high level sources. Also has volume control (master, rear) rear speaker selector, level set, front-, rear-, and main (front-to-rear) balance. Tape mon 2/4 Ch. switch. Synthesizer decoder positions: Concert Hall 1 and 2; surround-Normal, —quarter turn, — half turn; Decoder and 2 channel. Continuous Power output 33 watts per channel (rms). T.H.D. 0.5% at rated output I.M.D. 0.5%, (60 Hz; 7,000 Hz = 4:1 SMPTE method) Freq. Resp. 20-50,000 Hz \pm 1dB. Imped. 4-16 Ohms. 100, 110, 117, 127, 220, 230, 240, 250, VAC 50/60 Hz. Size: 6-3/8" H x 15 1/2" W x 13-3/8" D. Shpg. wt. 25 lbs. Complete with walnut finish cabinet.

No. 33A59. QS-500. Each **\$289.95**

Sansui *the world's finest in stereo*

Sansui®



REG.
\$288.64

**SAVE
\$52.00**

Sansui®



REG.
\$535.64

SAVE \$91.00

Sansui®



REG.
\$879.64

SAVE \$150.00



Garrard

\$236⁰⁰

**SANSUI 20 WATT (RMS)
AM/FM STEREO
COMPONENT SYSTEM**

SYSTEM INCLUDES:

- 1-Sansui 210 Receiver (33A36 on Page 9) Regular ... \$139.95
- 1-Garrard 40B Automatic Turntable (33A530 on Page 3) Regular ... \$49.95
- 1-Garrard B1 Turntable Base (33A579 on Page 3) Regular ... \$5.95
- 1-Garrard D1 Dust Cover (33A583 on Page 3) Regular ... \$5.95
- 1-Shure M44E Elliptical Cartridge (33A5005 on Page 6) Regular ... \$24.95
- 2-BA-100 Speaker Systems (33A2167 on Page 16) Regular 2 For ... \$60.95
50 Ft. of Speaker Wire (2C33) Regular ... \$0.94

IF PURCHASED SEPARATELY \$288.64

B-A SPECIAL SYSTEM PRICE

No. 33A740. **\$236⁰⁰**
COMPLETE



Garrard

\$444⁰⁰

**SANSUI 56 WATT (RMS)
AM/FM STEREO
COMPONENT SYSTEM**

SYSTEM INCLUDES:

- 1-Sansui 1000X Receiver (33A489 on Page 10) Regular ... \$289.95
- 1-Garrard SL72B Automatic Turntable (33A634 on Page 2) Regular ... \$109.95
- 1-Garrard B2 Turntable Base (33A580 on Page 3) Regular ... \$6.95
- 1-Garrard D2 Dust Cover (33A584 on Page 3) Regular ... \$6.95
- 1-Shure M93E Elliptical Cartridge (33A5062 on Page 6) Regular ... \$39.95
- 2-BA-200 Speaker Systems (33A2168 on Page 16) Regular 2 For ... \$80.95
50 Ft. of Speaker Wire (2C33) Reg. ... \$0.94

IF PURCHASED SEPARATELY \$535.64

B-A SPECIAL SYSTEM PRICE

No. 33A741. **\$444⁰⁰**
COMPLETE



Garrard

\$729⁰⁰

**SANSUI 80 WATT (RMS)
AM/FM STEREO
COMPONENT SYSTEM**

SYSTEM INCLUDES:

- 1-Sansui SEVEN Receiver (33A720 on Page 10) Regular ... \$459.95
- 1-Garrard Zero-100 Transcription Turntable (33A686 on Page 2) Regular ... \$199.95
- 1-Garrard B2 Base (33A580 on Page 3) Regular ... \$6.95
- 1-Garrard D2 Dust Cover (33A584 on Page 3) Regular ... \$6.95
- 1-Shure M91ED Elliptical Cartridge (33A5080 on Page 6) Regular ... \$54.95
- 2-BA-1001 Speaker Systems (33A2172 on Page 15) Regular 2 For ... \$149.95
50 Ft. of Speaker Wire (2C33) Regular ... \$0.94

IF PURCHASED SEPARATELY \$879.84

B-A SPECIAL SYSTEM PRICE

No. 33A739. **\$729⁰⁰**
COMPLETE

Sansui®



the last word in
4 CHANNEL STEREO

Sansui®



REG.
\$371.84

SAVE \$42.00



\$329⁰⁰



**SANSUI 4 CHANNEL CONVERTER
AND 2 CHANNEL REAR AMPLIFIER**

**CONVERT ANY EXISTING
STEREO SYSTEM WITH
TAPE MONITOR
PROVISIONS
TO 4 CHANNEL**

SYSTEM INCLUDES:

- 1-Sansui QS-500 (33A59 on Page 11) Regular .. \$289.95
- 2-B-A 200 Speaker Systems (33A2168 on Page 16) Regular 2 For \$80.95
- 50 Ft. of Speaker Wire (2C33) Reg. \$0.94

IF PURCHASED SEPARATELY \$371.84
B-A SPECIAL SYSTEM PRICE
No. 33A743. **\$329⁰⁰**
COMPLETE

Sansui®



REG.
\$627.54 **SAVE \$100.00**



Garrard

\$527⁰⁰



**SANSUI 60 WATT (RMS)
AM/FM 4 CHANNEL
COMPONENT STEREO SYSTEM
SYSTEM INCLUDES:**

- 1-Sansui QR-1500 Receiver (33A57 on Page 11) Regular .. \$299.95
- 4-B-A 200 Speaker Systems (33A2168 on Page 16) Regular 2 pair for \$161.90
- 100 Ft. Speaker Wire (2C33) \$1.89
- 1-Garrard SL-72B Turntable (33A634 on Page 2) Regular .. \$109.95
- 1-Garrard B2 Base (33A580 on Page 3) Regular \$6.95
- 1-Garrard D2 Dust Cover (33A584 on Page 3) Regular \$6.95
- 1-Shure M93E Elliptical Cartridge (33A5062 on Page 6) Regular .. \$39.95

IF PURCHASED SEPARATELY \$627.54
B-A SPECIAL SYSTEM PRICE.
No. 33A747. **\$527⁰⁰**
COMPLETE

Sansui®



REG.
\$1170.54 **SAVE \$220.00**



Garrard

\$950



**SANSUI DELUXE AM/FM
108 WATT (RMS) 4 CHANNEL
STEREO COMPONENT SYSTEM
SYSTEM INCLUDES:**

- 1-Sansui QR-4500 Receiver (33A56 on Page 11) Regular .. \$599.95
- 1-Garrard Zero-100 Turntable (33A686 on Page 2) Regular .. \$199.95
- 1-Garrard B2 Base (33A580 on Page 3) Regular \$6.95
- 1-Garrard D2 Dust Cover (33A584 on Page 3) Regular \$6.95
- 1-Shure M91ED Elliptical Cartridge (33A5080 on Page 6) Regular .. \$54.95
- 4-B-A 1001 Speaker Systems (33A2172 on Page 15) Regular 2 pair for \$299.90
- 100 Ft. Speaker Wire (2C33) \$1.89

IF PURCHASED SEPARATELY \$1170.54
B-A SPECIAL SYSTEM PRICE
No. 33A742. **\$950⁰⁰**
COMPLETE

B-A Wants You To Hear GREAT Music...

KENWOOD



REG.
\$308.64

**SAVE
\$50.00**



Garrard

\$258⁰⁰

**KENWOOD 16 WATT (RMS)
AM/FM COMPONENT
STEREO SYSTEM**

SYSTEM INCLUDES:

- 1-Kenwood KR-2200 Receiver (33A730 on Page 7). Regular .. \$159.95
- 1-Garrard 40B Automatic Turntable (33A630 on Page 3). Regular ... \$49.95
- 1-Garrard B1 Turntable Base (33A579 on Page 3). Regular \$5.95
- 1-Garrard D1 Dust Cover (33A583 on Page 3). Regular \$5.95
- 1-Shure M44E Elliptical Cartridge (33A5005 on Page 6). Regular .. \$24.95
- 2-B-A 100 Speaker Systems (33A2167 on Page 16) Regular 2 For \$60.95
- 50 Ft. Speaker Wire (2C33) Regular \$0.94

IF PURCHASED SEPARATELY \$308.64

**B-A SPECIAL SYSTEM PRICE
No. 33A744. **\$258⁰⁰**
COMPLETE**

KENWOOD



REG.
\$595.64

**SAVE
\$100.00**



Garrard

\$495⁰⁰

**KENWOOD 60 WATT (RMS)
AM/FM COMPONENT
STEREO SYSTEM**

SYSTEM INCLUDES:

- 1-Kenwood KR-5200 Receiver (33A733 on Page 8). Regular .. \$349.95
- 1-Garrard SL-72B Turntable (33A634 on Page 2). Regular .. \$109.95
- 1-Garrard B2 Base (33A580 on Page 3). Regular \$6.95
- 1-Garrard D2 Dust Cover (33A584 on Page 3). Regular \$6.95
- 1-Shure M93E Elliptical Cartridge (33A5062 on Page 6). Regular .. \$39.95
- 2-B-A 200 Speaker Systems (33A2168 on Page 16). Regular 2 For \$80.95
- 50 Ft. Speaker Wire (2C33) Regular \$0.94

IF PURCHASED SEPARATELY \$595.64

**B-A SPECIAL SYSTEM PRICE
No. 33A745. **\$495⁰⁰**
COMPLETE**

KENWOOD



REG.
\$819.64

**SAVE
\$160.00**



Garrard

\$659⁰⁰

**KENWOOD 90 WATT (RMS)
AM/FM COMPONENT
STEREO SYSTEM**

SYSTEM INCLUDES:

- 1-Kenwood KR-6200 Receiver (33A734 on Page 8). Regular .. \$399.95
- 1-Garrard Zero 100 Turntable (33A686 on Page 2). Regular .. \$199.95
- 1-Garrard B2 Base (33A580 on Page 3). Regular \$6.95
- 1-Garrard D2 Dust Cover (33A584 on Page 3) Regular \$6.95
- 1-Shure M91ED Elliptical Cartridge (33A5080 on Page 6). Regular .. \$54.95
- 2-B-A 1001 Speaker Systems (33A2172 on Page 16). Regular 2 For \$149.95
- 50 Ft. Speaker Wire (2C33) Regular \$0.94

IF PURCHASED SEPARATELY \$819.64

**B-A SPECIAL SYSTEM PRICE
No. 33A746. **\$659⁰⁰**
COMPLETE**

B-A's UNBEATABLE SPEAKER SYSTEM VALUES!

ALL SYSTEMS BELOW ARE IDEAL FOR USE WITH SOLID STATE AS WELL AS TUBE AMPLIFIERS



**HANDSOME COMPACT
REMOTE SPEAKER ENSEMBLE**

\$14.95 PAIR

- Stereo speakers.
- Bright metal trim.
- Lightweight, portable.
- Table, wall or bookshelf applications.

The perfect pair of speakers for bookshelf, wall or table-top use in kitchen, den, bedroom . . . anywhere! Will enhance any decor with their clean conservative lines. Compact, lightweight and portable they can easily be carried from room to room.

Cabinets are wood with walnut finish, rich looking cloth grilles and bright metal trim for that expensive look. Outstanding performance is characteristic of these ensembles with 6" x 4" heavy duty oval PM loudspeakers for full-range fidelity. 8 ohms.

Frequency response 70-12,000 Hz. Dimensions: 9½" H. x 7¾" W. x 4¼" D. (each). Shpg. wt. 10 lbs. (pair). Finest quality import. **\$14.95**
No. 33A2128. Pair.....



**COMPACT 2-WAY
SPEAKER SYSTEM**

\$19.95 EACH

- Use horizontally or vertically on floor, bookcase or table.
- Genuine hardwood cabinets in oiled walnut finish.
- Frequency response 50-15,000 Hz.

Concert hall "Big Sound" from a genuine two-way speaker system in a compact enclosure . . . all at B-A's special budget price. Selected by our own audio specialists for its smooth, pleasing 50-15,000 Hz, high-fidelity range. Gives realistic high-efficiency performance even with low power sound sources.

Use horizontally or vertically on floor, bookcase, or table. Easily carried from room to room, or outdoors. Consists of powerful 8" bass reproducer and 3½" tweeter in a scientifically engineered enclosure.

Decorous slim line styling. Cabinet is solidly constructed with ½" hardwood and glued joints. Beautiful grille cloth complements oil walnut veneer. Size 17½ x 10 x 5½". 8 ohms.

Highest quality import. Shpg. wt. 9 lbs. **\$19.95**
No. 33A2001. B-A Special, Net Each.....

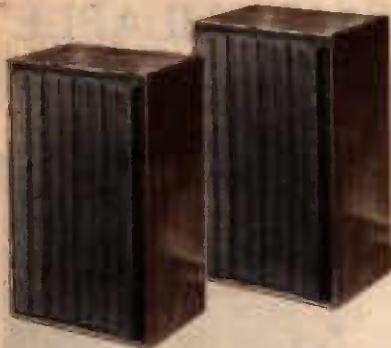


**DELUXE 2-WAY
SPEAKER SYSTEM**

\$24.95 EACH

- 8 Inch High Compliance Free Edge Woofer
- 2 Inch Tweeter
- Fiberglass Lined

Easily outperforms other speaker systems costing twice the price. High compliance 8" bass speaker has cloth edge suspension for greater cone travel. Housed in bass reflex chamber with acoustical fiberglass lining it delivers full, rich bass. Whizzer cone provides crystal-clear midrange sounds. 2-inch tweeter gives brilliant, natural highs while molded part permits wide-angle dispersion of high frequencies. Vinyl clad wood enclosure looks just like real oiled walnut but resists stains and marring. Includes 72-inch speaker cable with RCA phono plug. Handles 30 watts peak music power. Frequency response 50-15,000 Hz. Dimensions: 18" H. x 12" W. x 6" D. Shpg. wt. 13 lbs.
No. 33A2151. Each **\$24.95**



\$109.95
EACH

\$149.95
PAIR

**NEW BA-1001 3-WAY
SPEAKER SYSTEM WITH
DELUXE "THERMOLD" GRILLE**

Features a new super-deluxe heat-formed grille that has 3-dimension custom contour. Perfectly matched speaker components produce excitingly natural sounds. Utilizes 12-inch high compliance cloth edge woofer (with 2¼ lb. Alnico V magnet and 1½" voice coil) in an airtight enclosure of ¾-inch stock for true acoustic suspension. Bass response is smooth and clear yet so solid you can feel it. Thrill to sparkling highs and brilliant mids generated by the 8-inch sealed back direct radiator and 3½-inch cone tweeter. Treble control to suit personal and environmental demands. Select hand-rubbed oiled walnut veneer. Freq. resp. 35-18,000 Hz. Power 30 watts (60 watts peak). Imped. 8 ohms. Size: 14" x 23" x 10" D. Shpg. wt. 33 lbs.

No. 33A2172 Per
BA-1001. Each. **\$109.95** Pair **\$149.95**



\$169.95
EACH

**NEW BA-2001 3-WAY
BASS REFLEX 12-INCH
SPEAKER SYSTEM**

- Dual crossover network, 2500 & 7000 Hz.
- 6¼ lb. ceramic magnet structure on woofer.
- Super-transparent foam grille.

A new standard of excellence. B-A's perfect match of electronics and acoustics to create a "listening environment" of pure sounds with clear transient response. High compliance 12" woofer with 2" voice coil and massive 6¼ lb. ceramic magnet. Phenolic dome gives wide dispersion of highs. Crossover at 2500 and 7000 Hz, midrange and tweeter level controls. Handles up to 100 watts peak. Freq. resp. 20-20,000 Hz. 5-ply compressed core ¾" stock with walnut veneer in hand-rubbed oil finish. Acoustically transparent sculptured grille. Size: 24" x 15¼" x 12" D. Shpg. wt. 46 lbs.

No. 33A2170
BA-2001. Each **\$169.95**



\$199.95
EACH

**BA-3001 3-WAY 4 ELEMENT
15 INCH FLOOR MODEL
SPEAKER SYSTEM**

- Two horn-loaded dome tweeters.
- Super-deluxe foam grille.
- Giant 15" Woofer with 6¼ lb. magnet.

Now you can bring into your home a magnificent floor model speaker system that combines the ultimate in sound reproduction and creative styling. Has a 15" high compliance woofer with a 2" voice coil for lows that are solid and free from distortion. 5" driver reproduces mid-frequencies smoothly. Two horn-loaded tweeters for high efficiency and wide-angle dispersion.

Specifications: Crossover at 2500 and 7000 Hz, tweeter and midrange controls, freq. resp. 20-20,000 Hz., power 50 watts (100 watts peak), impedance 8 ohms. With riser base. Size (less base): 27" x 20½" x 14" D. Shpg. wt. 70 lbs.
No. 33A2171. BA-3001 Each **\$199.95**

B-A ANNOUNCES SPECTACULAR SAVINGS ON OUR ALL NEW - ALL SENSATIONAL AIR SUSPENSION HI-FI SPEAKER SYSTEMS

BUY 1 SPEAKER AT REGULAR PRICE, GET 2nd SPEAKER FOR ONLY \$1.00 MORE!

- ALL FINISHED IN FINE HAND-RUBBED OILED WALNUT VENEER.
- FINEST INTERNAL COMPONENTS AND ADVANCED ACOUSTICAL DESIGN RESULT IN FULL NATURAL SOUND.
- HIGH PERFORMANCE SPEAKERS DESIGNED TO PRODUCE A UNIQUE LEVEL OF MUSICAL ENJOYMENT.



\$60⁹⁵
PAIR

NEW BA-100 TWO-WAY HIGH-COMPLIANCE 6 INCH SPEAKER SYSTEM

Beautifully crafted enclosure . . . small in size but big in sound. Uses a 6" woofer with cloth cone edges for high compliance and greatest cone travel. 3 1/2" tweeter has sealed back to prevent inter-modulation with the woofer. High efficiency system delivers excellent volume level with most any amplifier or receiver. Handles up to 20 watts peak power. Hand rubbed oiled walnut veneer with fine sculptured solid walnut front frame. Frequency Response 75/16,000 Hz. Size: 9 1/2" x 15 1/2" x 7"

Shpg. wt. 13 lbs.

No. 33A2167

BA-100. Each **\$59.95**

Per

Pair

\$60.95



\$80⁹⁵
PAIR

NEW BA-200 TWO-WAY ACOUSTIC SUSPENSION 8 INCH SPEAKER SYSTEM

Features a horn-loaded mylar dome high frequency radiator with wide-angle dispersion. 8-inch high-compliance woofer with cloth roll and heavy magnet handles big power. Sealed enclosure for true acoustic suspension. Large enough to boost efficiency at low frequencies yet small enough for bookshelf use. Tweeter level control. Walnut veneer with solid walnut molded front frame, all with rich oil finish. Frequency response 50-20,000 Hz. 30 watts peak power. 8 ohms. Size: 11" x 18" x 9"

Shpg. wt. 21 lbs.

No. 33A2168

BA-200. Each **\$79.95**

Per

Pair

\$80.95



\$100⁹⁵
PAIR

NEW BA-300 THREE-WAY ACOUSTIC SUSPENSION 10 INCH SPEAKER SYSTEM

An exciting new listening experience combined with decoder styling plus features found in more expensive speakers can now be yours. Deluxe system utilizes a high compliance 10 inch cloth edge bass speaker with 2 lb. ceramic magnet. Sealed enclosure and long cone excursion result in low woofer resonance for penetrating bass response. 6 inch mid-range speaker and 3 1/2 inch tweeter yield a flatter response curve resulting in clear, brilliant sound. Solidly constructed of 3/4" walnut veneer with hand-rubbed walnut finish. Handles 25 watts, 50 watts peak. Freq. resp. 38-18,000 Hz. Impedance 8 ohms. Size: 12 1/2" X 22" X 9" D. Shpg. wt. 28 lbs.

No. 33A2169

BA-300 Each **\$99.95**

Per

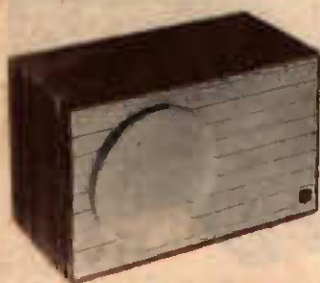
Pair

\$100.95

JBL

.. "THE FINEST QUALITY SPEAKERS AVAILABLE"

JBL transducers are carefully engineered instruments, painstakingly crafted and assembled to watchmakers' standards. JBL acoustical enclosures express the excitement of creative design, are elegant, solid and flawlessly finished. JBL electronic components are outstanding examples of advanced research, delivering the full promise of solid state circuitry. Collectively they offer incomparable "JBL SOUND."



JBL

LANCER 88 "PLUS" BOOKSHELF SPEAKER SYSTEM

\$213⁰⁰
EACH

A new "step-up" system from JBL. Utilizes the same 12" low frequency transducer and high frequency radiator as JBL L-100. Low frequency reproduction is clear, solid, and well defined. High frequency transient response is exceptionally accurate. Hand rubbed oiled walnut veneer finish, sculptured foam grille. 35 watts (continuous), imp. 8 ohms, crossover at 2000 Hz. 14 1/2" X 23 1/2" X 12 1/2" D. No. 33A2175. Shpg. wt. 50 lbs.

L-88 Plus. Each **\$213.00**

M12 Expander Kit. 5-inch midrange transducer and dividing network. Installation in the L88 results essentially in the equivalent of the L-100. Specs. of L88 plus M12: 50 watts continuous, crossover at 2500 and 7000 Hz. Shpg. wt. (M12 only) 6 lbs.

No. 33A2176. M12 Kit Each **\$69.00**



JBL

CENTURY L-100 "SUPERSHELF"

\$273⁰⁰
EACH

Now . . . beneath its handsome walnut finish the JBL 100 is the twin of the professional studio monitor. Incorporates a powerful 12" woofer, a heavy 4" midrange speaker and a direct radiator for high frequencies.

Speaker frames are massive aluminum castings . . . not stamped steel; voice coils are made of wire drawn to flat ribbon then wound on the ribbons edge by hand. The enclosure is of heavy stock and the new sculptured grille is more acoustically "transparent" than cloth. Specifications: 50 watts continuous; crossover at 2500 and 7000 Hz.; impedance 8 ohms; dispersion 90° horiz. and vert.; frequency response 40-15K Hz ± 3 db. Oiled walnut with russet brown Quadrex 2 grille. 24 x 14 x 13" D. Shpg. wt. 54 lbs.

No. 33A2115. Each **\$273.00**



JBL

LANCER 55

\$276⁰⁰
EACH

FLOOR SPEAKER SYSTEM
JBL's most economical floor system scaled for today's smaller living spaces. Useful as an end table, the L55 offers a smoked glass top and a three-dimensional grille available in 3 decorator colors.

The 14" bass loudspeaker develops redoubtable low-frequency power yet retains uncanny harmonic agility. 2 1/2" high-frequency direct radiator for glistening highs . . .

Finished in hand-rubbed oiled walnut veneer. Dividing network is electronically matched to high frequency radiator. Dimensions 25" X 18" X 13" deep. Shpg. wt. 25 lbs.

No. 33A2173—Coffee L55 Choice Each
No. 33A2152—Mandarin L55
No. 33A2174—Indigo L55 **\$276.00**

B-A's NEW CO-AXIAL DIE-CAST SPEAKERS



\$18.95 EACH
TWO FOR
\$19⁹⁵



\$27.95 EACH
TWO FOR
\$28⁹⁵



\$42.95 EACH
TWO FOR
\$43⁹⁵

LOWEST PRICE EVER!

BUY ONE AT REGULAR PRICE..GET SECOND FOR ONLY \$1.00 MORE!

- UNIQUE AND VERSATILE 8 OHM SPEAKERS
- CAN BE MOUNTED TO FRONT OR REAR OF BAFFLE BOARD.
- ALL SPEAKERS HAVE CLOTH ROLLS TO ENHANCE BASS PERFORMANCE.
- 8" 3-WAY CO-AXIAL FEATURES 3½" CONE TYPE TWEETER.
- 12" 3-WAY FEATURES A CO-AXIALLY MOUNTED COMPRESSION TWEETER.
- RIGID, DIE-CAST FRAME IS SHAPED FOR MAXIMUM STRUCTURAL STRENGTH.
- SPRING LOADED, FINGER-TIP TERMINALS ARE COLOR CODED FOR EASY PHASING IN STEREO SYSTEMS.
- "OPEN" FRAME DESIGN PERMITS MAXIMUM FREEDOM OF CONE TRAVEL.

Stock No.	Size and Description	Magnet Wt. Ozs.	V.C. Dia.	Peak Audio	Freq. Resp. Hz.	Resonant Freq. Hz.	O.D. In.	Depth Inches	Mtg. Dia.	Shpg. Wt. Lbs.	Each	Two For
34A462	8", 2-Way Coax	12	1"	30 Watts	32-19,000	55	8¼	3%	7½"	4¾	\$10.95	\$19.95
34A463	8", 3-Way Coax	12	1"	30 Watts	32-20,000	55	8¼	3%	7½"	5	27.95	28.95
34A464	12", 3-Way Coax	20	1½"	45 Watts	23-20,000	25	12¼	5%	11½"	13	42.95	43.95

BUY ONE FOR \$89⁹⁵ GET SECOND FOR \$30⁰⁰ MORE!

CREATE THE MOOD WITH THE BA-400 12-INCH 3-WAY ACOUSTIC SUSPENSION SPEAKER SYSTEM

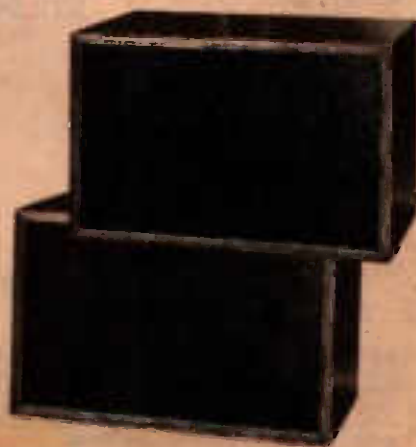
Sound becomes an excitingly new and dramatic experience. Travel the realms of fantasy on your magic carpet of beautifully recreated music. Music of your own choosing at your own time. Travel to the greatest concert halls or to the theatre to where your favorite musical is still "running". Perhaps you'd rather drift back to the era of the big bands or to the small clubs where jazz was born. If a livelier environment appeals to you, transport yourself to a hard-rock festival or deep into "country and western" land. After all, this is your illusion... why not enjoy it!

Specifications: 3-way, 3-speaker 12" acoustic suspension system, 12" high compliance woofer, 8" mid-range, 3½" tweeter and crossover network with treble control. Woofer has cloth cone edges, 1½" voice coil and 2¼ lb. Alnico V magnet. Hand rubbed walnut veneer. Frequency response 35-18,000 Hz. 30 watts, 60 watts peak, 8 ohm. Size: 14" x 23" x 10" Deep. Wt. 33 lbs.



EACH
\$89⁹⁵

PER PAIR
\$119⁹⁵



No. 33A2106. BA-400, Each \$89.95 Per Pair \$119.95

KOSS STEREOPHONES



SUPER-COMFORTABLE LIGHTWEIGHT HV-1

Weighs a scant 9.5 ozs. High velocity principle utilizes low mass moving diaphragm to achieve brilliant highs and deep rich bass while permitting ultralight-weight construction.

So light, so comfortable you may even forget you have it on, yet produces sound matched only by "top of the line" phones. Soft acoustical foam cushions. Freq. resp. 20-20,000 Hz. Imp. 3.2-600 ohms. With 10 ft. coiled cord.
No. 33A6697
Koss HV-1. Each **\$39.95**



KOSS MODEL PRO-4A. Improved professional stereo headset, engineered to meet the most rigid requirements. Frequency response 10-20,000 Hz. Impedance 4-16 ohms. Soft fluid-filled ear cushions seal out ambient noise, foam headband pad. 10 ft. coiled cord. Shpg. wt. 2 lbs.
No. 33A6649. Each **\$60.00**



ELECTROSTATIC STEREOPHONES

KOSS MODEL ESP-9 ELECTROSTATIC STUDIO MONITOR. Offers new dimensions for improved audiometry with self-bias or AC line energizing. Controlled monitoring with 10 octaves ± 2 db range exceeding best loud-speaker systems. Frequency response 15-15,000 Hz ± 2 db, 4 full octaves beyond ordinary headphones. Harmonic distortion less than 1/5 of 1% at 110 db-SPL. No special amplifiers needed! Weighs only 19 ounces. Connects to low impedance speaker terminals. Includes E-9 energizer, AC line cord, individually run response curve. Shpg. wt. 6 lbs.
No. 33A6648. Each **\$150.00**



KOSS MODEL KO-727B. New design, fully adjustable. Wide range, highly sensitive reproducers features $3\frac{1}{2}$ " driver. Frequency response 10-18,000 Hz. Impedance 4-16 ohms. Foam filled vinyl ear cushions and comfortable foam headband pad. 10 ft. coiled cord. Shpg. wt. 2 lbs.
No. 33A6588. Each **\$34.95**



KOSS MODEL K-6LC. Same acoustical design and physical construction as K-6 model, but with level controls. Lets you adjust each ear cup at the listening level you enjoy. $3\frac{1}{2}$ " dynamic reproducers with over 9 square inches of radiating surface. Shpg. wt. 2 lbs.
No. 33A6670. Each **\$29.95**



KOSS MODEL ESP-6 ELECTROSTATIC STEREOPHONES. Three octaves beyond limits of ordinary coil and cone type drivers. This wide range is attainable only through Electrostatics. No special amplifiers or supplies needed. Virtually distortion free. Frequency range 30-19,000 Hz ± 5 db. Harmonic distortion less than 1/5th of 1% at 110 db-SPL. Weighs 27 ounces. Impedance 4-16 ohms. Includes individually run response curve, carrying case, Model T-3 speaker/headphones switch. Shpg. wt. 6 lbs.
No. 33A6646. Each **\$95.00**



KOSS MODEL K-6. Medium price wide range stereo-phones will produce your favorite music. Frequency response 10-16,000 Hz. Impedance 4-16 ohms. Soft vinyl-covered foam cushions and sponge foam head cushion. Give comfortable listening. 10 ft. coiled cord with standard jack plug. Shpg. wt. 2 lbs.
No. 33A6622. Each **\$22.50**



NEW KOSS MODEL KR0-711 RED DEVIL
The hottest sound around in lightweight stereophones only 12 ounces. Flexible, high strength polypropylene headband conforms to any head size with neoprene foam ear cushions. Frequency response 20-20,000 Hz. Imp. 4-16 ohms. 10 ft. coiled cord. Wt. 2 lbs.
No. 33A6671. Each **\$29.95**



KOSS MODEL SP-3XC. Will reproduce any sound the human ear can hear. Frequency response 10-15,000 Hz. Imp. 4-16 ohms. Soft sponge ear and head cushions are comfortable even over extended periods of listening. 10 ft. coiled cord with standard jack plug. Shpg. wt. 2 lbs.
No. 33A6587. Each **\$15.95**



KOSS MODEL T-10A CHAIRSIDE LISTENING STATION
Offering remote control for two sets of stereophones, combines function with contemporary styling. Featuring separate volume controls for each stereo-phone and a speaker on/off switch. Wires directly to amplifier or receiver. Measures 6 inches in diameter, has a walnut-like base, combined with black trim and a spun aluminum control panel with smoked plexiglass cover.
No. 33A6595 Each **\$19.95**



① **Koss Model T-4 Connector Box.** Accepts up to 5 sets of stereophones. 10' cord with 3-cond. phone plug fits standard headphone jack. Provides stereo listening by up to 5 people at one time.
No. 33A6672. Each **\$7.95**

② **Koss Model T-1 Monitoring Adapter.** For monitoring high impedance sources...such as tape recorder with preamps only. Contains matching transformer to match 600 to 10,000 ohm outputs down to 4 ohms, 2 output jacks.
No. 33A6673. Each **\$7.95**

Koss Model EC-25KK Coiled Extension Cord. 25' long. Use with any stereophones, fitted with 3-cond. phone plug one end, jack on other end.
No. 33A6665. (Not shown) Each **\$7.95**

NEW DELUXE PANASONIC STEREO MUSIC SYSTEM

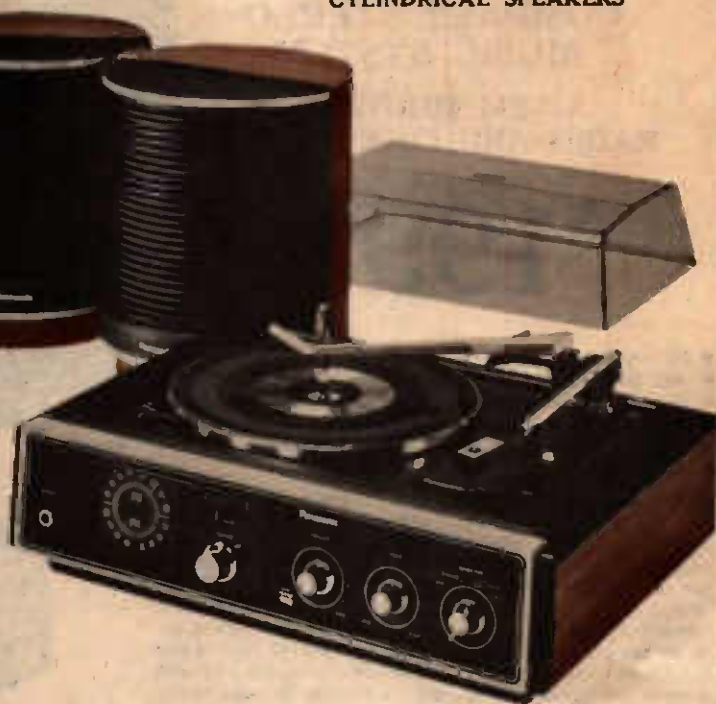
MODEL SE-2010

NEW DESIGN TWIN
CYLINDRICAL SPEAKERS

"THE Chesterton" AM/FM STEREO RADIO PHONO SYSTEM

- ULTRA-SENSITIVE FET TUNER.
- BLACK-OUT ILLUMINATED CIRCULAR TUNING DIAL.
- LARGE-PLATTER AUTOMATIC RECORD CHANGER.

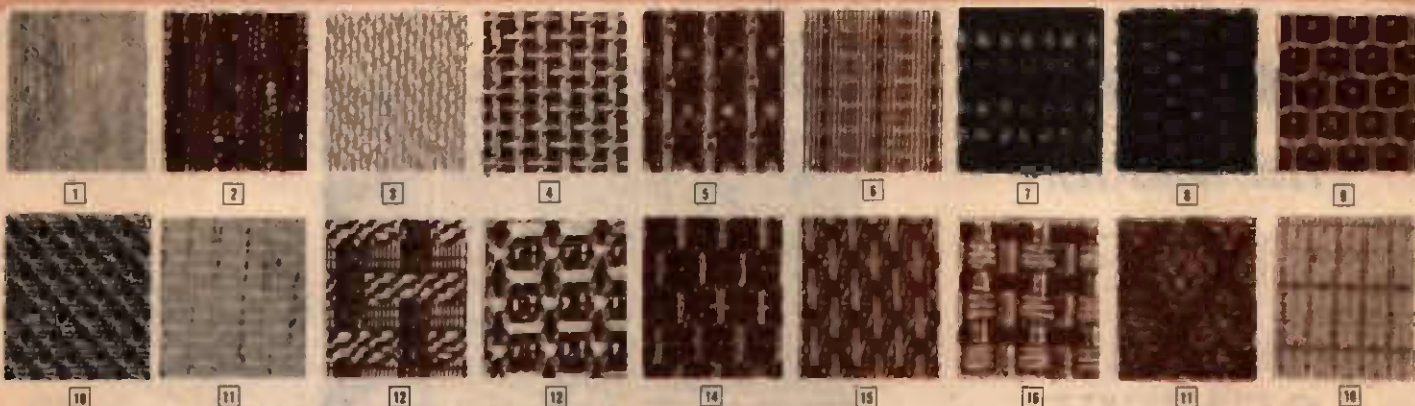
\$139⁹⁵ WITH PLEXIGLASS
DUST COVER



Newest concept in home music systems. Provides big sound along with elegant styling. Panasonic high quality 3-speed turntable comes equipped with an advance engineered ceramic cartridge. The multiple use amplifier features special output jacks and auxiliary input jacks. Permits use of tape deck as well as aux. speakers. Cylindrical speakers each contain a full-range 6 1/2" PM speaker with wide dispersion to provide room-filling sound. Continuous tone control lets you exact a perfect bass-treble balance. Balance control allows easy adjustment for perfect stereo reproduction from each speaker. Built-in FM/AM/FM Stereo Radio is sure to please you. Size, center unit 7 1/4" H x 15 1/4" W x 12 1/4" D.; speaker systems 8-5/8" H x 10-3/8" Diam. Shpg. wt. 25 lbs. No. 30A5023. Model SE-2010 System. Each \$139.95

DECORATOR GRILLE FABRICS BY ACOUSTONE

PATTERNS AND COLORS TO MATCH EVERY FURNITURE STYLE AND COLOR



- NOTE: Grille Cloth may be ordered (in 36 inch width) up to 25 yards long.
- (1) Natural Linen. Mixture of plastic and linen yarns. Handsome with walnut finished cabinets. Pattern A Nat. Linen #10. No. 33A8013. 18"x24". Net Ea. \$2.15 No. 33A8012. 36"x36". Net Ea. \$3.95
 - (2) Dark Linen. Rich dark linen effect with Antique Gold highlights. Pattern A Dark Linen #20. No. 33A8015. 18"x24". Net Ea. \$2.15 No. 33A8014. 36"x36". Net Ea. \$3.95
 - (3) Hidden Gold. Beige plastic vs. white fibre has a hint of gold thread throughout. Pattern C-868. No. 33A8063. 18"x24". Net Ea. \$2.60 No. 33A8062. 36"x36". Net Ea. \$4.75
 - (4) Tahiti Cane. Natural cane stands out on a dark background. Pattern B-2412. No. 33A8019. 18"x24". Net Ea. \$2.60 No. 33A8018. 36"x36". Net Ea. \$4.75
 - (5) Ribbonwood. Combines the look of dark cane with mahogany tones. Pattern C-2528. No. 33A8051. 18"x24". Net Ea. \$2.60 No. 33A8050. 36"x36". Net Ea. \$4.75
 - (6) Waffle Weave. Beige and Bronze interwoven plastic threads—great for walnut finish. Pattern B-8111. No. 33A8023. 18"x24". Net Ea. \$2.60 No. 33A8022. 36"x36". Net Ea. \$4.75
 - (7) Black Plaid. Soft jet-black yarn in gay plaid style. Pattern C-2440. No. 33A8053. 18"x24". Net Ea. \$2.60 No. 33A8052. 36"x36". Net Ea. \$4.75
 - (8) Black Magic. Three dimensional black plastic allow for dramatic contrast. Pattern B-4542. No. 33A8027. 18"x24". Net Ea. \$2.60 No. 33A8026. 36"x36". Net Ea. \$4.75
 - (9) Honeycomb. Hex pattern formed by olive reeds and brown ribbon. Black background. Pattern B-2580. No. 33A8069. 18" x 24". Ea. \$2.60 No. 33A8068. 36" x 36". Ea. \$4.75
 - (10) Chain Mail. Diagonal blend of black and white with silver or gold. Specify silver or gold. Pattern C-4540/4543. No. 33M8049. 18"x24". Net Ea. \$2.60 No. 33M8048. 36"x36". Net Ea. \$4.75
 - (11) Eggshell Waffle. Pale Ivory and White waffle with random gold metal yarn sprinkles. Pattern C-6423. No. 33A8033. 18"x24". Net Ea. \$2.60 No. 33A8032. 36"x36". Net Ea. \$4.75
 - (12) Woven Wood. Rich mixture of walnut tones on a dark background. Pattern D Woven Wood. No. 33A8035. 18"x24". Net Ea. \$2.60 No. 33A8034. 36"x36". Net Ea. \$4.75
 - (13) 3D Modern. Walnut hexagonal with rust centers popping out from a black base. Pattern D-6000. No. 33A8037. 18"x24". Net Ea. \$2.60 No. 33A8036. 36"x36". Net Ea. \$4.75
 - (14) Autumn Blue. Hexagonal reddish-brown and amber yarn over blue background. Pattern C-2675. No. 33A8057. 18"x24". Net Ea. \$2.60 No. 33A8056. 36"x36". Net Ea. \$4.75
 - (15) Jungle Reed. Olive cane look vs. brown yarn. Pattern B-2512. No. 33A8055. 18"x24". Net Ea. \$2.60 No. 33A8054. 36"x36". Net Ea. \$4.75
 - (16) Malacca. A rich ensemble of brown & beige yarns and ribbons. Subtle background of black screen. Pattern D-6050. No. 33A8071. 18" x 24". Ea. \$2.60 No. 33A8070. 36" x 36". Ea. \$4.75
 - (17) Casino Red. Tightly latticed crimson diamond design for subtle beauty. Pattern D-3001. No. 33A8067. 18"x24". Net Ea. \$2.60 No. 33A8066. 36"x36". Net Ea. \$4.75
 - (18) Morning Glow. Rows and rows of all gold colored threads in 3 dimensional weave. Pattern C-1011. No. 33A8073. 18" x 24". Ea. \$2.60 No. 33A8072. 36" x 36". Ea. \$4.75

Panasonic STEREO MUSIC CENTERS

"THE GALAXY"

COMPACT STEREO MUSIC SYSTEM

AM-FM MULTIPLEX
RADIO AND PHONOGRAPH

\$199⁹⁵

- 20 watts music power.
- All Solid State Design.
- Sliding Controls for Easy Sound Adjustment.
- Solid State Cartridge with Diamond Stylus.
- Speaker Systems Contain 6½" Woofer and 2½" Tweeter.
- Front Panel Jack for Headphones.

As beautiful to hear as it is to look at! Handsome styling features all walnut finished wood cabinet with matching speaker systems. The high quality 4-speed record changer has cueing and pause control. Specific input and output jacks permit addition of a tape deck, 8 track, reel-to-reel, or cassette recorder. Sliding controls for volume, bass and treble, make precise sound adjustment easy. FM/AM/FM stereo section offers fine output on all bands. Sensitive FM/AM antennas and FET tuner insures fine, clean reception. Blackout, illuminated circular tuning dials enhance the appearance as well as provide for easy tuning. AFC locks-in FM stations for drift-free performance. Stereo eye indicates stereo stations. Detachable hinged plexi-glass cover to keep everything free of dust. Size: center unit, 18 X 6 X 16"; speaker systems, 9-1/16 X 13-7/8 X 6 1/2".

No. 30A5007, Model SE-850A

Shpg. wt. 30 lbs. Each **\$199.95**



DELUXE FINE WALNUT
WOOD CABINETS

Panasonic

"THE DARIEN"

STEREO MUSIC CENTER

ADAPTABLE TO
QUADRAPLEX

\$239⁹⁵



Panasonic superb compact stereo system—elegantly styled in beautiful walnut wood cabinetry. Optimum sound reproduction and long-lasting reliability are made possible by Panasonic Solid State engineering and integrated circuitry. Full range 2-way acoustic suspension speaker enclosures are each composed of one 6½" woofer and one 2½" mid and high frequency tweeter. Optional speakers (below) may be used to give quadruplex stereo effect. Professional style 4-speed recessed automatic record changer has Magnistate cartridge with diamond needle, cueing and pause control—for instant selection of your favorite music. Adjustable stylus pressure and anti-skating mechanisms extend the life of your records and needles. FM stations are locked in by AFC while FET's bring in distant broadcasts. Noise encountered while tuning FM is prevented by the FM muting mode. Handsome dial (with illuminated

pointer) blacks-out when set goes off. Controls: Volume Bass, Treble, Balance, Tape Monitor Switch, Stereo indicator light. Main/Front speaker output jacks, as well as: Aux. input, record output and headphone jacks plus ext. FM antenna terminals. Center unit 8¾" H. x 17¾" W. x 16½" D.; each speaker 15½" H. x 10¾" W. x 7¼" D. Shpg. wt. 54 lbs. **\$239.95**

No. 30A5014, Model SE-2030, Each.....
No. 30A5016, Model SB203 Matching Air Suspension Speakers recommended for Quadraplex effect with above. Pair..... **\$69.95**

Panasonic COMPACT STEREO SYSTEM

"THE LINDSAY"

**COMPLETE AM/FM
8-TRACK HOME
ENTERTAINMENT
CENTER**

\$279⁹⁵

A full feature AM/FM stereo radio, 8 track player and automatic record changer all in one compact unit with matching speakers. 4-speed record changer has magnistate cartridge with flip-over diamond stylus. Cueing and pause control permits safe tone arm lift and drop to protect your records. Super-fidelity speaker systems contain a 6½" air-suspension woofer and 2½" tweeter for wide range sound with low distortion. FM frontend has FET's for greatest sensitivity and 4 IF stages for highest gain in fringe areas. When function selector is set to FM stereo, only stereo stations will be tuned; AFC switch locks-in stations. Built-in 8-track playback section has auto/manual program selector with repeat switch and lighted program indicator. Direct-coupled amplifier provides big power for low distortion sound. Separate controls for volume, bass, treble, and balance. Jacks provided for spkr out, rec out, aux in and headphones. Also ext FM ant terminals. Freq resp 30-12,000 Hz. 110 VAC 60 Hz. Size: (center unit) 9¼" H x 18-7/8" W x 17½" D.; (Spkr.) 15¾" H x 10-7/8" W x 6½" D. Complete with detachable hinged plexiglass dustcover and headcleaning bar. Shpg. wt. 44 lbs.

No. 30A5015. Model SE-3080.

Each **\$279.95**



Panasonic

"THE HOLBROOK"

**COMPLETE
4 CHANNEL
STEREO
AM/FM/8-TRACK
ENTERTAINMENT
CENTER**

\$299⁹⁵

Discover new worlds with 4-channel sound. True 4-channel separation can now be yours with 4 separate amplifier channels. Your stereo (2 ch.) records and tapes will never become obsolete and they'll sound better than ever with Panasonic's new Quadruplex circuitry. Delivers 4-channel presence from 2-channel sound sources. Has 4 speaker systems each with 6½" air suspension speaker. Fully automatic 3-speed record changer has magnistate cartridge with flip-over diamond stylus. Built-in 8-track player plays 4 channel (discrete) tapes with full separation on standard stereo cartridges. Has push button program selector, lighted program indicators and repeat button. Stereo radio features AFC on FM, FET tuner, stereo eye and stereo selector system that permits exclusive tuning of stereo station when desired. 4-IF stages give a big boost to distant sig-

nals. Jacks for spkr out, headphones, 4-ch aux in, rec out, FM ext ant, and four channel remote balancer (optional). Frequency response 30-12,000 Hz. 110 VAC 60 Hz. Size: (main unit) 8" H x 19-5/8" W x 12-7/8" D.; (spkr.) 13 ¾" H x 9-7/8" W x 5 ¾" D. Shpg. wt. 51 lbs.

No. 33A67. Model SE-4040.

Each **\$299.95**

QUADRASONIC REMOTE BALANCER permits listener to balance speakers from a central location. Handsome modern styling with "shift-lever" control.

No. 36A9015. Model RD-9775.

Each **\$19.95**



Panasonic

"The Glenview"

AM/FM CASSETTE ENTERTAINMENT CENTER

\$239⁹⁵

- Sensitive FET FM Tuner
- Direct-Coupled Outputs For Low Distortion
- Luxurious Wood Cabinetry



Put a total sound system in your home! Everything you need for a full fidelity stereo system. Features Quadruplex circuitry which gives 4-channel presence from 2-channel program material. Built-in cassette has simple one-hand push button operation and "auto-stop" which disengages drive mechanism at end of tape. AC bias and erase permit clear, wide range recordings. Safety-lock record button prevents accidental erasures. Large illuminated XU meters for both channels. Also features digital tape counter, sound monitor hi/lo switch, AFC,

stereo-eye and headphone jack. Sealed air suspension speakers give rich powerful sound. Freq. resp. 50-12,000 Hz, 6 1/2" speakers. Microphone input. Size: (center unit) 5 1/2" H x 20 3/4" W x 12 1/2" D., (speaker) 15-3/8" H x 10-5/8" W x 7 1/4" D. Shpg. wt. 42 lbs. Complete with pre-recorded cassette and microphone with stand. 110VAC 60Hz. No. 31A7572. Model RS-281S. Each **\$239.95**

Panasonic

STEREO MUSIC CENTER

"The Prescott"

COMPONENT STYLE AM/FM/PHONO STEREO SYSTEM

\$299⁹⁵

- Cueing and Pause with Anti-Skating
- Blackout/Illuminated Dial
- FET Tuner and Tuning Meter



Perfectly matched set of components. Matched electronically as well as physically for flawless performance in all functions. Main control center is an AM/FM stereo receiver with FET tuner for noise-free, highly sensitive FM reception. Tuning meter indicates signal strength. AFC locks in stations for drift-free listening. FM muting eliminates interstation noise when tuning. Amplifier section has direct-coupled output stages designed without output transformers and capacitors that generate distortion. Features separate controls for treble and bass plus tape monitor switch. Fully automatic 4-speed record changer features lightweight tone arm, large platter, solid state cartridge with diamond stylus, cueing and pause control and luxurious base with hinged plexiglass dust-cover. Both acoustic suspension speaker systems employ an 8" high compliance woofer and 2 1/2" wide-range tweeter. Response is smooth and solid. All walnut-wood cabinetry. Terminals for AM & FM ext. antennas. AC outlet. Speaker jacks for 2 pairs of systems. 110-120 VAC 60 Hz. Size: (main unit) 4-15 16" H x 17-3/4" W x 16 1/4" D. (phono) 7-5/8" H x 17 3/4" W x 15-3/8" D. (sprk.) 17-3/8" H x 11 1/2" W x 7-5/8" D. Shpg. wt. 65 lbs. No. 30A5018. Model SE-2070. Each **\$299.95**

Panasonic

AM/FM 8 TRACK STEREO ENTERTAINMENT CENTER

\$239⁹⁵



**"The
Hampton"**

- FET Tuner for Sensitivity
- Built-in 8 track recorder with Fast Forward

What better combination for in-home stereo enjoyment. Now you can start your own 8-track cartridge library. Built-in 8 track stereo tape recorder has slide-in cartridge operation. Pana-ject switch permits continuous play of tape or automatic eject after last program. Also has power eject button for fingertip cartridge removal. Locking fast forward button advances tape to any position ... No more waiting. AC bias and erase give best recordings. Has large VU meters, plus 3-position monitor switch for loud or soft monitoring of recordings, AFC on FM, stereo-eye, separate volume and tone controls for each

channel. Air suspension speakers with 6-3/8 inch loudspeakers produce full rich sounds. Distinctive walnut wood cabinetry. Has 2 mic., 2 aux., and 2 phono inputs. Outputs for 2 line, 2 ext. speaker and headphones. Comes complete with head cleaning bar. Freq. resp. 30-12,000 Hz. Size: (center unit) 5-5/8" H x 20-3/4" W x 12-5/8" D., (spkr.) 13-3/8" H x 10-1/4" W x 5-3/4" D. 110 VAC 60 Hz. Shpg. wt. 35 lbs.

No. 31A7573. Model RS-818S. Each **\$239.95**

Panasonic

"The Anandale"

4-CHANNEL HOME ENTERTAINMENT CENTER WITH AM/FM 8 TRACK

\$399⁹⁵



- Plays 4 channel and stereo 8 track tapes.
- Separate bass and treble controls.
- FET Tuner & Direct-Coupled Output Circuitry.
- Automatically selects 4 ch./2 ch. cartridge mode.

The excitement of 4-channel sound can now be yours. Amplifier section has four individual channels for playback of discrete 4-channel 8-track tapes with full separation. Your present collection of stereo LP's and tapes will sound better than ever. Amazing Quadruplex circuitry delivers 4-channel sound presence from conventional 2-channel sources. Records 2-channel stereo cartridges. Has two VU meters, locking fast forward and 3-position monitor switch. Wide-range speaker systems produce full rich bass and sparkling highs. Combines 6 1/4"

acoustic suspension woofer and 2 1/2" tweeter for even response. Other features include Pana-ject for automatic eject after last program or switch to continuous play, speaker separation control, FM/AFC & stereo eye and 4 separate sliding volume controls. Comes with luxurious wood cabinetry and head cleaning bar. Freq. resp. 30-12,000 Hz. 110 VAC 60 Hz. Size: (main unit) 7 1/2" H x 20 3/4" W x 15-3/8" D., (spkr.) 20 3/4" H x 12 1/4" W x 6 1/4" D. Shpg. wt. 70 lbs.

No. 31A7594. Model RS-864S. Each **\$399.95**



Panasonic

"The Powell"

8 TRACK RECORDER DECK

**PLAYS TRUE 4 CHANNEL
STEREO THROUGH 4
SEPARATE AMPLIFIERS . . .
RECORDS IN REGULAR
STEREO!**

\$169⁹⁵



The Powell puts you in the center of the exciting new sound in music . . . 4 channel stereo with 4 separate amplifiers to surround you, literally, with unbelievably realistic concert hall sound. Use with a 4 channel receiver or amplifier system. Records your own 8 track cartridges in regular stereo. Has 2 channel and 4 channel operation indicators. Features continuous play position, locking fast forward, eject button, program selector and direct read out program indi-

icator. Two easy-read VU meters, headphone monitor. Handsome walnut wood cabinet. Has input jacks for 2 microphones and 2 auxiliary inputs, with output jacks for 4 lines and stereo headphone. Frequency resp. 50 to 12,000 Hz. For 120 VAC. Size: 17 1/2" x 11 1/2" x 4 1/2".

Shpg. wt. 18 lbs.
No. 31A7583. Model RS-855US. Each **\$169.95**

Panasonic

8 TRACK STEREO RECORD/PLAYBACK DECK WITH FAST FORWARD

**HANDSOME WALNUT
WOOD CABINET**

**SAVE! RECORD YOUR OWN
8 TRACK CARTRIDGES FOR LESS**

"The Medford"

- LIGHTED PROGRAM INDICATORS.
- SEPARATE VOLUME CONTROLS.
- AUTOMATIC STOP.
- TWO VU METERS.

\$114⁹⁵



Add 8-track cartridge record and play to your system or console . . . enjoy fun of recording your own cartridges . . . and save money too! Playback through stereo system, any 8-track player or car stereo.

Low-silhouette modernistic walnut wood styling, a tasteful addition to any room. Features fast-forward and lighted program indicators for quick program selection, two large easy-see VU meters, noise-free AC bias and erase, push-buttons for safety lock record and program selection, two separate volume controls. Continuous play position for non-stop entertainment. Heat-minimizing,

solid state engineering. Frequency range 50-12,000 Hz. Stereo headphone jack; stereo MIC, AUX, inputs; 2 line outputs. With 2 connection cards, head cleaning bar. For 120 V, 60 Hz, AC. Size: 16-5/8" x 9 1/4" x 4 1/2". Shpg. wt. 14 lbs. No. 31A7596. Model RS806US.

Net Each **\$114.95**

Panasonic

"The LaGrande"

AM/FM/PHONO/CASSETTE STEREO ENTERTAINMENT CENTER

\$249⁹⁵

Truly a total concept in home stereo entertainment. Fully automatic 3-speed record changer has magnistate super-fidelity cartridge with flip-over diamond stylus. Automatically shuts-off after last record. Radio section has FET FM front-end for strong reception and high sensitivity. 4 IF stages provide extra gain for distant stations. AFC locks in stations. Stereo selector system permits exclusive tuning of stereo stations if desired. Built-in stereo cassette recorder has push-button operation and features auto-stop, level meter and two microphone jacks. Records directly from stereo radio or phonograph. Plays all stereo or mono pre-recorded cassettes. Each speaker is a 6 1/2" air suspension system. Powerful direct-coupled output circuitry and wide-range speakers provide full rich sound. Headphone jack. Luxurious walnut wood cabinetry. Complete with a microphone and stand, pre-recorded cassette tape and plexiglass dust cover. Freq. resp. 30-10,000 Hz. 110 VAC 60 Hz. Size: (center unit) 7 1/2" H x 19 1/2" W x 15 1/2" D.; (spkr.) 13 3/4" H x 9-7/8" W x 5 3/4" D. Shpg. wt. 35 lbs.

No. 31A7595. Model SE-1050
Each **\$249.95**



INTRODUCING MODAR WALL FURNITURE

USE IN ANY
ARRANGEMENT
FOR YOUR
STEREO AND
HIGH-FIDELITY
COMPONENTS



1



2



3



4



5

LOW PRICED HIGH QUALITY CABINETS AND BOOKCASES YOU CAN MIX IN ANY COMBINATION

Here's an exciting new idea in furnishings that has a place in your home or apartment. Use each handsome piece of furniture alone, or stack with other units in endless combinations. Clean modern lines, and a rich walnut vinyl finish gives you furniture to be proud of at low cost. When you buy Modar in a "knocked-down" kit, all you need is a screwdriver to assemble the pieces. This way not only saves you money, it's fun to do. No drilling. No glueing. Just fit precision-made parts together. Sections are color-coded to make it extra easy.

- 1 Bookcase—1 adjustable shelf. 2 positions offers versatility of compact size plus attractive styling. Size: 30" H., 30" W. x 9½" D. (Not mailable). No. 33A9512. **\$19.95**
- 2 Bookcase—2 adjustable shelves. Display books, trinkets and hi-fi equipment with style. Size: 36" H., 30" W., 9½" D. (Not mailable). No. 33A9513. Model No. 3630. Wt. 41 lbs. Each. **\$23.95**
- 3 Cabinet. Sliding simulated Tambour doors. Ideal for storing records and tapes from sunlight and dust. Size: 17½" H. x 30" W. x 15¾" D. Wt. 41 lbs. (Not mailable). No. 33A9514. Model No. 1630. Each. **\$23.95**
- 4 Desk and Bookcase. A uniquely-styled combination desk and bookcase. Dual use, with space-saving feature, is of particular appeal to apartment dwellers, and for student's rooms. Shelf is adjustable to 2 positions. Beautiful walnut vinyl finish; looks like wood, is burn, stain, and water-resistant. Desk top can be raised to slide down behind bookcase. Size: 30" H. x 30" W. x 15" D. Wt. 60 lbs. (Not mailable). No. 33A9515. Model No. 300. Each. **\$29.95**
- 5 Pier Case Cabinet. High combination of cabinet and shelving, in one handsome unit. Pier case has 2 removable shelves, perfect for hi-fi components. Cabinet base has sliding simulated Tambour doors. Size: 72" H. x 32" W. x 11¾" D. Wt. 103 lbs. (Not mailable). No. 33A9516. Model No. 1072. Each. **\$49.88**



A screwdriver is all you need to easily assemble Modar knocked-down components. Patented Core—Lock hardware fastens cabinet parts rigidly together into sturdy furniture.

LEARN A FOREIGN LANGUAGE



EACH INCLUDES:

- 40 Lessons on 4 Long-Playing 33 $\frac{1}{2}$ RPM Records.
- Comprehensive Conversation Manual.
- Common Usage

CHOICE OF LANGUAGE COURSES

\$8⁹⁷

Complete courses based on proven U. S. Govt. methods. Just relax and learn! Words, phrases, sentences are clearly spoken in faultless accents by expert instructors—and while one listens he sees the words he hears in the conversation Manual provided. Each course also includes a 16,000 word two-way common usage dictionary.

- No. 23A162—French No. 23A160—German
No. 23A159—Spanish No. 23A165—Portuguese for South America

YOUR CHOICE EACH.....\$8.97

LIVING LANGUAGE BETTER SPEECH COURSE

Amazing new tested method enables anyone to gain poise and self confidence in speaking . . . quickly and easily. Learn all the secrets and techniques of persuasive speakers, sparkling conversationalists. Covers pronunciation, voice training, vocabulary, proper usage, public speaking techniques, etc. Includes 40 complete lessons on 4 long playing records and two better speech manuals. Recorded under the editorial supervision of M. L. Gurren, Ph.D.

No. 23A157. Net Each.....**\$8.97**

THE BIBLE BROUGHT TO LIFE ON RECORDS



MFG. LIST
\$39.50

\$26⁹⁵

Brings to life with thrilling realism the Bible . . . read aloud by one of America's finest professional readers. Every word is read correctly and reverently . . . not a word has been changed or left out. Recorded at 16 $\frac{2}{3}$ RPM on 7" unbreakable vinylite records—each record plays for nearly an hour. A special adaptor is available for playing them on any phonograph capable of operating at 33 $\frac{1}{2}$ RPM, or they can be used with any 4-speed Record Player.

Widely acclaimed by religious leaders, editors and laymen—ideal for the home, Bible classes, Sunday Schools, etc. Albums handsomely jacketed in simulated black leather with gold lettering.

NEW TESTAMENT—King James version. Complete and unabridged—all 27 books. 260 chapters. Mfg. List \$39.50
No. 23C20. Per Album (26 Records).....**\$26.95**

OLD TESTAMENT—9 books: complete and unabridged. Genesis, Judges, Esther, Ruth, Psalms, Proverbs, Ecclesiastes, Solomon, and Isaiah.
No. 23C8. Mfg. List \$39.50 Per Album (26 Records).....**\$26.95**

BIBLE STORIES FOR YOUNG PEOPLE

STORIES FROM THE OLD TESTAMENT. 21 complete stories, including Noah and the Ark, David and Goliath, Daniel in the Lion's Den, etc. Plays 2 hours.
No. 23C23. Mfg. List \$4.95 Per Album (2 Records).....**\$3.44**

STORIES FROM THE NEW TESTAMENT. 26 complete stories, including The First Palm Sunday, Jesus and the Little Children, The Last Supper, Good Samaritan, etc. Plays 2 hours.
No. 23C24. Mfg. List \$4.95 Per Album (2 Records).....**\$3.44**

NEW FROM **M** MODAR

COMBINATION RECORD CABINET AND TAPE STORAGE DRAWER



KEEP CASSETTES AND CARTRIDGES ORGANIZED AND DUST FREE

- Keep cassettes/8-track cartridges in dust-free drawer.
- Built to stack with other 30" MODAR Pieces.

\$39⁸⁸

Special designed! Most unique cabinet we've seen. Has same rugged $\frac{3}{4}$ " construction and rich 6 mil vinyl finish that makes MODAR famous. Also has exclusive patented core-lock hardware for easy and rigid assembly. Unique pullout drawer holds 50 cassettes or 8-track cartridges in special slotted holders. Lower area has big capacity for over 150 LP's. Record dividers included. Outside dimensions 24" H x 30" W x 15 $\frac{1}{4}$ " D. Shpg. wt. 60 lbs. Shipped K.D. (See page 25 for other Modar units).

No. 33A8522. Model 2030. Each **\$39.88**

LUXURY DANISH RECORD CABINET



\$11⁸⁸

Rich "Cascade Walnut" furniture to grace any room, yet so sturdy you can sit on it. Built of tough wood frame with printed hardboard surface that won't peel off or come loose at corners. Looks exactly like real walnut veneer. Easily assembled with 10 screws. Has removable record dividers. Big capacity . . . holds up to 150 LP's. Sliding doors. Inside bottom has same finish as outside. Outside dimensions 18 $\frac{1}{4}$ " H x 23 $\frac{1}{2}$ " W x 14 $\frac{1}{2}$ " D. Shpg. wt. 12 $\frac{1}{2}$ lbs. Shipped K.D.

No. 33A8523. Model 650. Each **\$11.88**

MODERN STYLE ALL-PURPOSE CABINET

\$22⁹⁵

Perfect for your stereo and hi-fi components . . . makes an excellent bar, TV stand, room divider or credenza. "Pervaneer" finish, with 3 sliding doors.

Stores up to 400 records, numerous books and tapes. Shipped knocked down (not mailable). Easy to assemble.

Size: 48" L x 16" D x 19" H. Shpg. wt. 55 lbs. **\$22.95**
No. 33A9500. Each

PHONO AND RECORD CARE ACCESSORIES



① **PHONO LEVEL KIT.** A level turntable or record changer is a must for stereo reproduction. Kit includes 4 adjustable rubber feet, circular 4-way spirit level. Wt. 5 oz.

No. 24A6000, Type PK-4. Net Each **\$3.49**

② **STYLUS MICROSCOPE.** Precision ground lenses for clear magnification of stylus, slot at end of scope for holding stylus steady. Pen type pocket clip. No. 24A6001. Wt. 3 ozs.

Type PM-1. Each **\$2.19**

③ **KLEENEEDLE BRUSH.** Mounts on side of changer under tone arm so that needle passes through brush on every changer cycle. Blobs of dust are removed automatically after every record. Wt. 2 ozs.

No. 24A6002. PB-3. Shpg. wt. 1 lb. Each **99c**

POPULAR PHONO AND RECORD ACCESSORIES



④ **RECORD BRUSH AND TONE ARM LIFT.** A unique combination of a fine record brush that sweeps records clean in front of needle, plus a tone arm lift for easy handling of tone arm. Clips on any arm. Wt. 1 oz.

No. 24A299. Net Each **99c**

⑤ **ELECTRO-WIPE STATIC ELIMINATOR RECORD CLOTH.** Preserve your good records from harmful dirt and grit as well as static charge with one wipe! Eliminates record "pop and click" from vinyl attracted charges. Lubricates records for smoother needle operation, eliminates friction and static. Keeps grooves clean for true, clear fidelity, longer record life. Used by many broadcast stations and recording companies. Wt. 2 ozs.

No. 24A6003. Each **79c**

⑥ **ANTI-STATIC RECORD CLEANER.** Spray can. Special rapid cleaning formula. Eliminates static and keeps records clean. Includes cloth.

No. 24A6004. 5 Oz. Can. Each **99c**

Cecil E. Watts Record Care Equipment
The only positive way to clean, maintain and protect records.



⑦ **PREENER.** Most popular Watts cleaning tool. Preener cleans and preserves the grooves of a new record leaving no trace of film or residue to clog the stylus. By depositing the correct amount of humidity on the record surface, it acts as an effective anti-static control. At the same time it gathers stray dust and dirt.

No. 24A6037. Watts No. PR Each **\$4.00**

⑧ **MANUAL PARASTAT.** Will revitalize your old records by lifting out from the grooves the built-up accumulations of dust, dirt and grit. Uniquely designed brush, with nylon bristles pointed down to .00025" provide deep down penetration for tough cleaning jobs. Especially valuable where elliptical styli are used. Complete with new formula anti-static fluid.

No. 24A6031. Watts No. PA-MK-11A. Each **\$15.00**

⑨ **NEW FORMULA ANTI-STATIC FLUID.** Leaves no sticky residue or surface film when it goes to work reducing the static charge and providing the proper degree of humidity. A few drops is all that is required to control static charge.

No. 24A6032. Watts No. NIF. Each **\$2.50**

⑩ **DUST BUG.** Keeps the record clean as it plays. Completely gentle in action, the Dust Bug cleans the immediate area of the record or split second before the stylus tracks the groove. A suction cup makes it simple and rapid to attach to any transcription turntable or automatic turntable when used in single play.

No. 24A6033. Watts No. TDB. Each **\$6.50**

No. 24A6034. Replacement Pad and Bristles. Watts No. PPB. Each **\$3.00**

STYLUS CLEANER (not illustrated)
Removes accumulation from stylus, extends the life of all styli.

No. 24A6036. Watts No. SC. Each **\$1.25**

⑪ **WATTS RECORD MAINTENANCE KIT.** Comes complete with Preener, stylus cleaner, and Dust Bug. Save \$1.80 as compared to purchasing each Watts record care accessory separately. Shpg. wt. 1 lb.

No. 24A6035. Watts No. RMK Each **\$9.95**



⑫ **PHONO STROBE AND LIGHT KIT.** Checks speed of turntable.

No. 24A6007. Type PK-5MWt. 6 oz. Each **\$2.59**

⑬ **PACKAGE OF 50 SNAP INSERTS FOR 45 RPM RECORDS.** Snaps in large hole of record for use on standard spindles of changers or players.

No. 24A6008. Type PRA-50. Wt. 6 oz. Package For **99c**

⑭ **RECORD SAVERS.** Heavy, clear plastic envelopes to protect records from scratches, dust, oil and dirt. For 12" records.

No. 24A6010. Type PJ-18. Pkg. of 18 For **99c**

⑮ **PROFESSIONAL RECORD CUEING CONTROL.** For manual turntables. Raises and lowers tonearm without touching it. Forearm floats over desired track of record without fear of scratching records. Self-stick base for easy mounting. Instructions included.

No. 11A7546. Type PCD-1. Net Each **\$8.99**

⑯ **STYLUS PRESSURE GAUGE.** Accurately calibrated to measure stylus pressure from 1/2 to 8 grams. Wt. 4 oz.

No. 24A6014. Type PSC-2. Each **\$1.19**

⑰ **RECORD CLEANING KIT.** Actually cleans the grooves as well as the surface. Features a non-gumming, anti-static liquid detergent in a plastic squeeze bottle, special fine-grain cleaning puff which goes down into the record grooves to clean out abrasive dust, as well as remove static. Annoying hisses and crackles disappear like magic, music sparkles with new clarity. Adds new life and brilliance.

No. 24A6030. Each **\$1.50**



⑱ **FIBERGLAS ACOUSTIC INSULATION.** Spun fiberglass material 1" thick eliminates standing waves and controls reverberation inside speaker baffles. Ideal for any acoustic insulation application. 24x60" size in plastic bag.

No. 33A6509. Type 30-356. Each **\$2.25**

⑲ **HEAVY DUTY SLIDE DRAWER HARDWARE.** Easy mounting of radio chassis, record changers recorders, etc. in custom cabinets, record compartments of consoles, etc. Made of 16 gauge steel. Overall length 13". Travel lgh. 9". Load capacity 50 lbs. Silencer spring eliminates vibration. Shpg. wt. 1 lb.

No. 33A6511. Per Pair **\$2.99**

SOLID STATE HI/FI STEREO SHUT-OFF

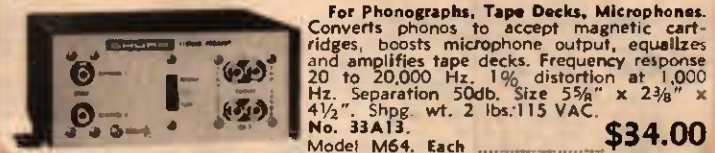


AUTOMATICALLY SHUTS-OFF ENTIRE SYSTEM AFTER LAST RECORD PLAYS!

Now one can place a stack of records on the record changer with no worry about turning equipment off. Just plug AC cords of record changer and amplifier into "Stop-O-Matic". Special built-in device automatically shuts-off amplifier after last record has played. (Note: Changer must have automatic shut-off feature.) Wt. 1 lb.

For all European and American changers. **\$7.99**
No. 33C31. Each

SHURE M64 STEREO PREAMPLIFIER



For Phonographs, Tape Decks, Microphones. Converts phonos to accept magnetic cartridges, boosts microphone output, equalizes and amplifies tape decks. Frequency response 20 to 20,000 Hz. 1% distortion at 1,000 Hz. Separation 50db. Size 5 5/8" x 2 3/8" x 4 1/2". Shpg. wt. 2 lbs. 115 VAC.

No. 33A13. Model M64. Each **\$34.00**

JUST TIP AND FLIP! NEW RECORD-MATIC RECORD ALBUM HOLDER AND AUTOMATIC SELECTOR



Flip first album forward, then all others will follow, one after another, automatically. When record desired is removed, record-matic will stop automatically. Albums flip by slow or fast, as desired, allowing full viewing of all albums. When returning record to file, repeat the process and albums will stop at the same spot from which the record was removed. Cuts down record handling, protects valuable records. Holds 25 12-inch record albums. Base is injection molded high impact Polystyrene with white plastic record holders. Metal support arms are brass plated. Base size: 14" L. x 10 3/4" W. Shpg. wt. 3 1/2 lbs. Mfg. List \$9.95.

No. 33A8500. Net Each **\$6.95**



DIAMOND PHONO NEEDLES

AMERICAN MADE

DO NOT CONFUSE WITH LOWER QUALITY IMPORTS!

YOU WILL FIND NO BETTER QUALITY THAN THESE DIAMOND JEWEL TIPPED, HAND POLISHED NEEDLES.

PRECISION DIAMOND NEEDLES... UP TO 5 TIMES LONGER WEAR COMPARED TO SAPPHIRE

Your Choice

\$2.49 EACH

SAVE! KEEP A SPARE 2 FOR \$3.99

PROTECT YOUR VALUABLE STEREO AND LP RECORDS WITH A NEW HIGH QUALITY DIAMOND NEEDLE

All are dual needles with diamond tip compatible for both stereo and LP records, also sapphire tip for 78 RPM records, except where asterisk (*) indicates a single diamond needle for stereo and LP only.

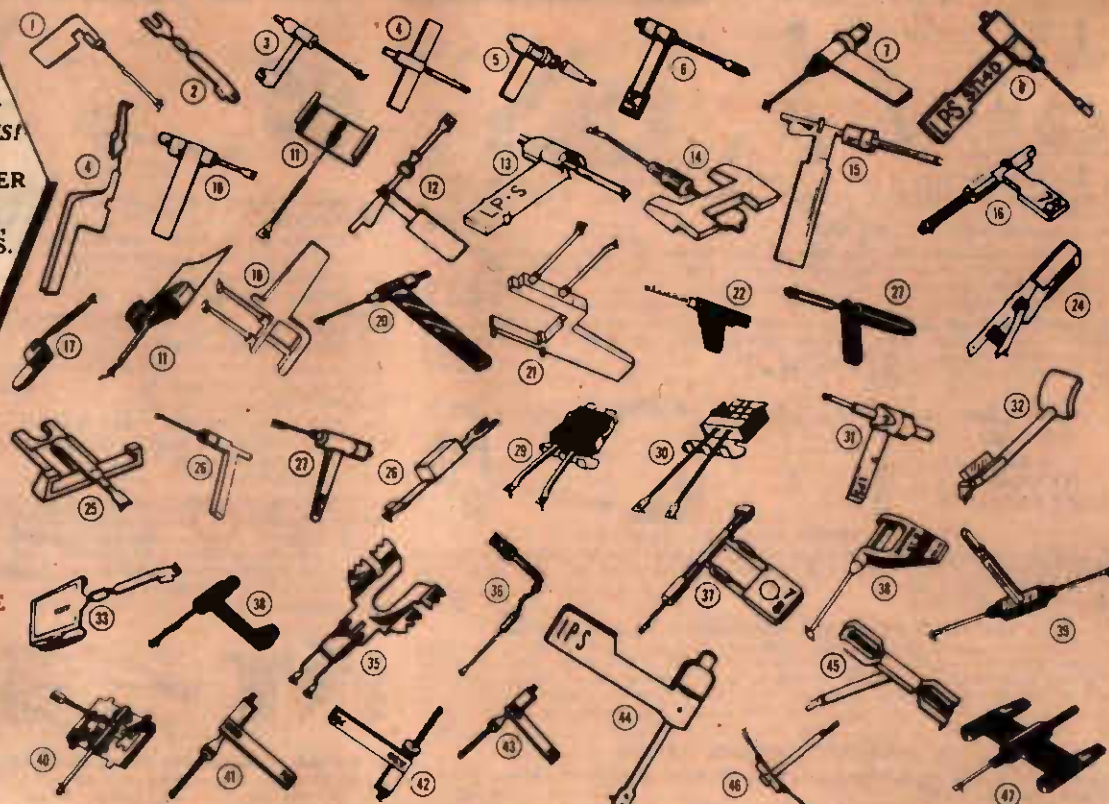


Fig.	Stk. No.	Cartridge No. and Mfg. No.	Needle No.	Fig.	Stk. No.	Cartridge No. and Mfg. No.	Needle No.
1	24A708	ACOS 73	D-73, S-73	7	24A700	Magnavox 58, 344-45	560, 344-2
2	24A361	*Astatic 310, 318, 414, 434, 801, 609	N8-3	47	24A707	Magnavox 560347-1	26470
2	24A362	*Astatic TS Series	N8-1, N8-2, N8-7	26	24A736	Nivico PU3012, 3	DTS-1
3	24A546	Astatic 170, 135, 217	N41, N42	7	24A672	Philips AG3306, AG3310, AG3224, 3328, 3230	946, SS50, DS51
3	24A547	Astatic 133, 137, 233, 237, 459, 483, 485, 497, 139D, 138, 140, 142, 146, 148, 217, 233, 253	N50, N51, N60, N62, N63, N68 N70, N92 N84, N68	27	24A736	Piezo Y310 Japan Columbia 510	
3	24A709	Astatic 134, 136, 496, 192	N58	28	24A737	*Piezo SC501	108800, 108215, 108214
3	24A617	Astatic 181, 167, 169, 187, 281, 183	N74	29	24A533	RCA RPM200, 106771A, 106960A, 108213A, 106770, 106771, 108213, 10677A	110020, 110022
3	24A701	Astatic 153, 157, 341, 343, 345, 461, 465, 479, 481, 499	N76	30	24B307	RCA 110023, 110021, 111347, 111348	115329, 115911, 130398
4	24A665	Astatic 349D, 275, 351, 271, 273	N76	7	24A632	RCA 115276, 115302, 115303, 115277, 115348, 115347, 115703, 117330	118199, 118200
4	24A710	Astatic 348, 348	N89, N91	12	24A702	RCA 120695, 128393	122057
4	24A711	Astatic 2010, 205D, 209, 211, 2130	TC8RS, TC8LS, TC8G	31	24A738	*RCA 115059, RPM-203, 115050	115081
5	24A362	*BSR TC-85, TC-8R, TC-8G, TC-8H, TC8H/1	ST3, ST4, ST5, ST6	32	24A673	RCA 112123, 117330, 117331	118197, 118198
5	24A633	BSR SX-1H, SX-2H, C1, SX1M	ST16, ST17, ST18	7	24A674	*Ronette BF40-4, T-1, 105, 106, 208	SA075, SA250, OA700, OA300
6	24A712	BSR SC7M	ST8, ST9, ST10	11	24A326	*Ronette OT60, RA284, RA395, TO200, TO222, TO284, TO400	5304, 5305
6	24A713	BSR SX3, SX4, SX5H	ST12, ST14, ST15	2	24A361	Ronette TC500, OC400-P-OV-T, DC500	SA250, SA100, OA100, DA300
6	24A714	BSR SC5M, SX5M	SC1S	33	24A739	Ronette TA600	
6	24A715	Columbia SC-1S, 10, 2S, 20, 7S, 7D, 8S, 80	DN5, DN54, DN52	34	24A740	Shure M1-44 Series, PC-2, -3, -4, -5, -6, -7, W9, WC-6	A8, A9, A10, N-4
7	24A716	Dual CDS 630/5/54	2604, 2605	35	24A320	24A385	N2T
10	24A322	*Electro Voice 21, 26	2816DS	36	24A460	Sonotone 2T, 5T, 7T, Series 9980	N3T
12	24A627	Electro Voice 117, 131, 148, 154, 159, 259, 260	2623DS	23	24A732	Sonotone 3T Series	
7	24A717	Electro Voice 198, 199, 275, 5166	2625DS, 2643	36	24A349	Sonotone 3509	N8T, N8TA
13	24A718	Electro Voice 194	2640	36	24A349	Sonotone 8T, 8TA	N9916F, N18T, N16T
12	24A667	Electro Voice 5000, -03, -05, -75, -02, -86, -88, 5166, -69, -70	2620DS, 2622DS	37	24B309	Sonotone 9T, 16T, 16TSD, 16TS, 18T	N12THA
14	24A719	*Electro Voice 5078	2619DS	38	24A680	Sonotone 12THS	N21T, N35T
7	24A587	Electro Voice 141, 149, 150, 157, 158, 186, 256, 257, 258, 278, 279, 280	2626	7	24A695	Sonotone 21T, 22T, 23T, 24T, 31T, 35T, 43T	N19T, N20T
7	24A574	Electro Voice 132, 183	2637, 2638	33	24A741	Sonotone 20T, 19T	A20/2, A22/2
3	24A636	Electro Voice 37, 38, 47, 72	2636	40	24A534	Telefunken T20-2, T22-2, T20	
15	24A720	Electro Voice 5076, 5081	2639	41	24A742	Tetrad E2D	C-1
3	24A721	Electro Voice 5026D, 5027D, 50570, 50800	2641, 2642	41	24A743	Tetrad C10 Yellow	110
6	24A722	Electro Voice 5082D, 5076D	180, 181, 182	3	24A631	Tetrad 10D	21D
16	24A721	Electro Voice 5044, 5045, 5061, 5083, 5084	214, 215, 216	3	24A641	Tetrad 200, 1210	41D
16	24A723	*Euphones E1, E2, E3, E4	255, 256	7	24A693	Tetrad 400	61D
17	24A541	*Euphones U1, U2, U4, U6	253, 254	3	24A697	Tetrad 510	52D
18	24A306	Euphones U8, U9	371, 372	3	24A694	Tetrad 220	32D
19	24A724	Euphones U10, U11, U10R, U11R	508, 509, 510, 511	7	24A695	Tetrad 930	33D
19	24A399	Euphones U12, U13	551, 552, 512, 530, 601	7	24A676	Tetrad 300, 90D, 910	23D
19	24A628	Euphones U15, U16, U17, 18, 19, 21	254B, 256B, 375	7	24A696	Tetrad	63D
6	24A726	Euphones U19-4, U15-13	508, 507, 513	3	24A698	Tetrad 530	42D
20	24A727	Euphones U8RB, U9RB, U10RB, U11RB	TS-1/2/3	26	24A744	Tetrad 43D	A2
21	24A728	Euphones U15, U16, U17, Single Tip	S-1	42	24A745	Tetrad A1, A3	C3
4	24A728	Garrard GCS-23T, GCM-21T, 22T	S-2/3	43	24A746	Tetrad	G1
22	24A729	Garrard GCS-1	RPX-01	43	24A747	Tetrad	G2
23	24A730	Garrard GCM-22, GCM 21/22	4G01	44	24A706	Tetrad	3CB
23	24A731	Garrard KS-40	RS4154, RS4413	2	24A749	Toshiba C10C, 3CB, GR33F	
23	24A732	Garrard GKS-25/26, GCS 23	RS4634	2	24A699	*Varco ST20, ST40, ST-100, ST200, T045, ST2	ST40
23	24A733	*GE RPX Series	RS6528, EA1014	7	24A622	Varco CN60, CN62, CN65, CN67, CN68, CN70, CN72, CN73, CN75	CN, CO
24	24A670	*GE V811, 4G052, -053, -081, 063, #9D	EA2224	7	24A677	Varco TNO-2H	TN-02-LPS
24	24A671	145, 146		7	24A703	Varco TN4A, TN4B	TN4
7	24A669	GE G100		45	24A750	Zenith 142-127, 142-128, 142-126	S55804, S55805
7	24A668	GE C-200, C-400		46	24A678	Zenith 142-136, 142-137, 142-138, 142-140, 142-141, 142-142, 142-143	S62648, S62649
7	24A611	GE C-500, C600, C850		39	24A679	Zenith 140, 151, 163, 166, 168	S88566, S88567
25	24A734	GE 660		39	24A751	Zenith 142, 167	S82621
7	24A587	Magnavox 380310, 56					

YOUR CHOICE EACH \$2.49 2 FOR \$3.99 YOUR CHOICE EACH \$2.49 2 FOR \$3.99

SAVE \$\$\$ BA SPECIAL!

COMPARE AT \$2.49



OUR MOST POPULAR GENUINE DIAMOND PHONO NEEDLE

EXACT REPLACEMENT FOR MANY CARTRIDGES... \$1.49 BY ASTATIC, BSR, RONETTE AND VACO

Used in all the following cartridges.
ASTATIC: 64, 118, 120, 124, 310, 312, 414, 420, 422, 436, 456, 570, Stereo 70, 74, 76, 78, 80, 86, 320, 472, 474.
BSR: TC8H, M, S, EV Cart #119, 120, 121.
RONETTE: Collaro, Fujii, Futura, P.E. DT-60, RA-284, RA-395, DC-04, TC-200, TO-222, 284, 400.
VARCO: TO-55 Series, TO-35X, 45, SN-45, SN-55, ST-45, ST-1, 2, 4, 5, 20, 40, 100, 200.
No. 24A681. Special Each \$1.49

SET SCREW TYPE ALL GROOVE NEEDLES



Sapphire tip needle. Truncated for both microgroove and standard records. Plays all types of records without changing needles. **69c**
No. 24A624. Each

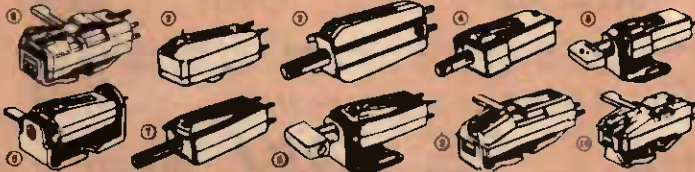
ASTATIC PHONO PICKUPS



MODEL LM PICKUP. Popular original equipment pickup with high output turnover cartridge for playing all speeds, 16, 33 1/3, 45 and 78 RPM. Ideal for replacement on portable phonograph. Supplied complete with mounting hardware and arm rest. 3 volt output. Wt. 10 ozs. **\$3.95**
No. 24A4002. Model LM Pickup. Net Each

MODEL LS PICKUP. Same as above except equipped with high output stereo cartridge. 2 volt output. Wt. 1 lb. **\$4.95**
No. 24A4003. Model LS Pickup. Net Each

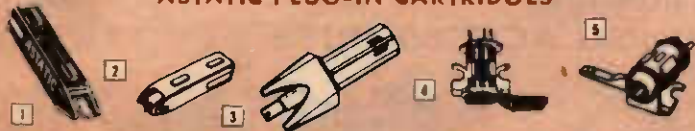
VARCO VACO CARTRIDGES



Used by 52 phonograph manufacturers as original equipment. All have diamond stylus. All cartridges have crystal elements except * which have ceramic elements.

Fig.	Stock No.	Cartridge No.	Type	Volts Output	Color	Mfg. List	Net Each
1	24A4064	CN62D	Mono	.9V	Black	\$8.50	\$4.25
1	24A4065	CN65D	Mono	2.8V	Black	8.50	4.25
1	24A4066	CN72D	Stereo	.9V	Black	8.50	4.25
1	24A4067	CN73D	Stereo	1.5V	Black	8.50	4.25
1	24A4068	CN75D	Stereo	2.0V	Black	8.50	4.25
2	24A4069	S54D	Stereo	2.0V	Black	8.00	4.00
3	24A4070	TO45LD	Mono	.9V	Black	8.00	4.00
4	24A4071	TO55D	Mono	3.5V	Black	8.00	4.00
4	24A4072	TO55XD	Mono	3.5V	Black	9.00	4.50
4	24A4073	TOH46D	Mono	3.5V	Grey/Black	9.00	4.00
5	24A4074	TOH46XD	Mono	3.5V	Grey/Black	8.00	4.50
6	24A4075	ST2VD	Stereo	1.0V	Grey/Red	9.00	4.50
8	24A4076	ST2XD	Stereo	1.0V	Grey/Red	9.00	4.50
7	24A4077	ST4D	Stereo	2.5V	Red/Black	8.75	4.38
6	24A4085	ST4VD	Stereo	2.5V	Red/Black	9.00	4.50
8	24A4078	ST4XD	Stereo	2.5V	Red/Black	9.00	4.50
9	24A4079*	TN02D	Stereo	.35V	Black	12.00	6.00
9	24A4080*	TN02HD	Stereo	.57V	Black	12.00	6.00
10	24A4081*	TN4AD	Stereo	.4V	Black	12.75	6.38
10	24A4082*	TN4BD	Stereo	.5V	Black	12.75	6.38
10	24A4083*	TN8TD	Stereo	.65V	Black	12.75	6.38
10	24A4084*	TN8UD	Stereo	.9V	Black	12.75	6.38

ASTATIC PLUG-IN CARTRIDGES



Popular plug-in type cartridges used as original equipment in thousands of phonographs. Highly sensitive ceramic element for clear wide-range response. * 13AT is same as 13T except has wider range and higher compliance. 93 is replacement for Electro Voice 56. 105 is replacement for Electro Voice 66. Avg. shpg. wt. 3 oz.

Fig.	Stk. No.	Astatic No.	Type	Output Volts	Needle Tip	Mfg. List	Net Each
1	24A4014	13T	Stereo	0.65	7S-3S	\$6.95	\$3.57
1	24A4015	13TX	Stereo	0.65	7D-3S	8.95	5.37
1	24A4016	13AT	Stereo	0.35	7S-3S	7.95	4.77
1	24A4017	13ATX	Stereo	0.35	7D-3S	10.95	6.57
2	24A4018	81T	Mono	1.0	1S-3S	3.95	2.37
2	24A4019	81TX	Mono	1.0	1D-3S	6.95	4.17
2	24A4059	89T	Mono	1.3	1S-3S	4.95	2.97
2	24A4060	89TX	Mono	1.3	1D-3S	7.95	4.77
3	24A4004	93T	Mono	1.5	1S-3S	3.95	2.37
3	24A4005	93TX	Mono	1.5	1D-3S	6.95	4.17
3	24A4007	105D	Stereo	1.0	7D-3S	9.95	5.97
4	24A4106	MB2	Mounting bracket for 13T, 13TX, 13AT, 13ATX				.80
5	24A4107	MB3	Mounting bracket for 81T, 81TX, 89T, 89TX				.80

ASTATIC STEREO REPLACEMENT CARTRIDGES

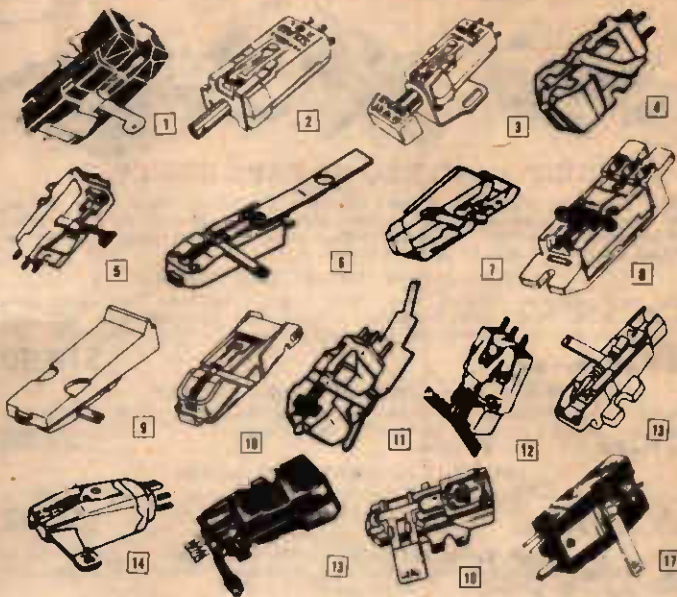


Fig.	Stk. No.	Astatic No.	Replacement For	Needle Tip	Output Volts	Mfg. List	Net Each
1	24A4026	17	Adm. G.E. VM	7S-3S	0.8	\$11.75	\$7.05
2	24A4027	17D	Adm. G.E. VM, Zen.	7D-3S	0.8	15.75	9.45
2	24A4020	70TS	VM	7S-3S	2.0	7.25	4.35
2	24A4025	74TS	Airl. G.E.	7S-3S	2.0	7.25	4.35
3	24A4021	76TSB	Airl. Phil.	7S-3S	2.0	7.95	4.77
2	24A4022	80TS	Arv. Phonola VM	7S-3S	0.8	7.50	4.50
3	24A4023	86TSB	Adm. Magn.	7S-3S	0.8	8.50	5.10
4	24A4061	133	Adm. Arv. Zen	7S-3S	0.5	9.75	5.85
4	24A4087	133D	Adm. Airl. Phil.	7D-3S	0.5	13.75	8.25
1	24A4088	140	Adm. to Zen.	7S-3S	1.0	7.50	4.50
1	24A4024	142	Adm. to Zen.	7S-3S	2.0	7.25	4.35
6	24A4092	142D	Adm. to Zen.	7D-3S	2.0	12.25	7.35
6	24A4093	165D	Magn. 560355-1	7D-3S	0.25	12.50	7.50
7	24A4094	181D	Sylv.	7D-3S	0.11	14.50	8.70
6	24A4095	195D	Magn. 560345-1	7D-3S	0.25	12.50	7.50
8	24A4091	197D	Magn. 560347-1	7D	0.15	12.50	7.50
8	24A4096	348	RCA 115059	7S	2.0	7.95	4.77
9	24A4097	351D	G.E. C650	7D-3S	0.5	17.40	10.44
10	24A4098	353	RCA 115276	7S-3S	0.175	11.95	7.17
10	24A4099	353D	RCA 115277	7D-3S	0.175	14.95	8.97
11	24A4100	461D	Magn. 560218-1	7D-3S	0.65	14.50	8.70
12	24A4010	475	RCA 108213	7S-3S	0.5	10.00	6.00
5	24A4101	612	B.S.R. SX5H, TC8	7S-3S	2.0	6.95	4.17
13	24A4090	655D	EV5015, Garrard 30	7D-3S	0.5	11.50	6.90
7	24A4089	675D	Garr. X10, EV5080D	7D-3S	0.5	12.00	7.20
14	24A4102	710	Eup. U1. Adm. Moto.	7S-3S	0.5	9.95	5.97
14	24A4103	710D	Eup. U2. Airl. VM	7D-3S	0.5	16.50	9.90
15	24A4038	754	Sono. BTA4-S. Adm., Syl.	7S-3S	0.3	11.00	6.60
15	24A4040	754D	Sono. BTA4-SD. Adm.,	7S-3S	0.3	14.50	8.70
16	24A4042	760D	Sono. 16 TAF-SD. Phil	7D-3S	0.65	11.65	6.99
17	24A4046	763RD	Sono. 21 TR-SD.	7D-3S	0.6	12.20	7.32

ASTATIC MONAURAL REPLACEMENT CARTRIDGES

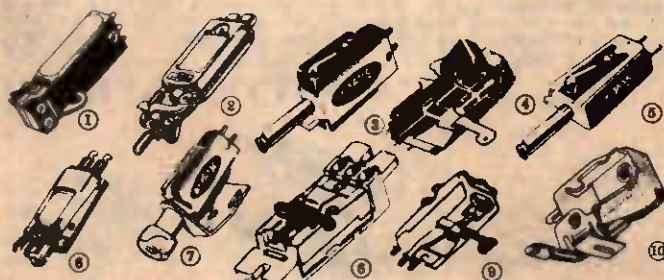


Fig.	Stk. No.	Astatic No.	Replacement For	Needle Tip	Output Volts	Mfg. List	Net Each
1	24A4034	40-2	Adm. Airl.	2S	1.0	\$6.50	\$3.90
2	24A4029	66TY	Phil., RCA	3S	3.0	6.50	3.90
3	24A4030	120	Phil., VM	1S-3S	3.0	6.45	3.87
4	24A4086	148	Adm. to Zen.	1S-3S	3.0	6.45	3.87
5	24A4031	314TS	Airl. RCA	1S-3S	3.0	5.45	3.27
6	24A4033	408	RCA, 74D87 (Lan. Fill.)	1S	0.8	4.45	2.67
7	24A4032	420	Adm., Sears	1S-3S	3.0	5.45	3.27
8	24A4104	602	RCA 118187	7S	2.7	6.95	4.17
9	24A4105	614	B.S.R. TC8H, X1H	1S-3S	3.0	5.45	3.27
10	24A4035	751	Sono. 2TA-S. Adm.	1S-3S	1.0	7.40	4.44
10	24A4036	751D	Sono. 2TA-S0. Phil	1D-3S	1.0	10.80	6.48

ROBINS TAPE RECORDING ACCESSORIES



ROBINS "STEREO 4" TAPE SPLICERS

Rapid, accurate splicing of 4 track, 2 track and single track tapes. Makes diagonal cut. "Gibson Girl" trim prevents splicing tape adhesive from contacting critical parts of recorder. All units feature blade centering adjustment and replaceable cutter for lifetime accuracy.

① TS-80 DELUXE "STEREO" TAPE SPLICER

"See thru" windows indicate "Cut" and "Trim" positions. Tape guide and fingers secure tape. Easy threading, integral tape dispenser with 100" roll of 1/2" splicing tape. Made of super-strong Cycloc. With instructions. Wt. 1 lb.

No. 11A704. Net Each..... **\$10.50**

③ NEW TS-75 STANDARD "STEREO" SPLICER

Precise cut and "Gibson Girl" trim. See-thru windows show "Cut" and "Trim" positions. Integral dispenser, 3/8" x 100" splicing tape.

No. 11A638. Wt. 12 oz. Net Each..... **\$7.88**

NEW TS-7J JUNIOR "STEREO" SPLICER

Same as TS-75 without tape dispenser and splicing tape. Uses 3/8" splicing tape. Wt. 8 oz.

No. 11A407. Net Each..... **\$6.82**

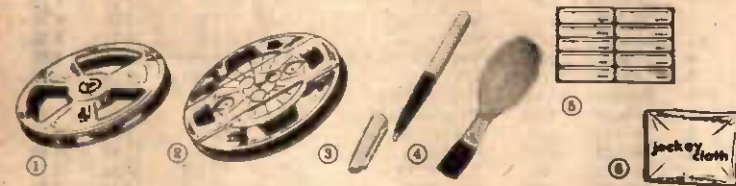
ROBINS MYLAR SPLICING TAPE. Special formula Mylar. Tackiness, thickness, strength and cold-flow controlled for perfect, permanent splices. Use with "Stereo 4" splicers. Avg. wt. 8 ozs.

Stk. No.	Mfg. No.	Width	Length	Net Each
11A990	TST-235	1/4"	300"	\$0.94
11A991	TST-376	3/8"	275"	.94
11A992	TST-501	1/2"	250"	.94
11A993	TST-751	3/4"	150"	1.01

ROBINS MAGNETIC BULK TAPE ERASERS. Better erasure without using recorder. Reduces tape background noise. Takes only seconds to erase entire reel.

② TM-99. Erasure 3 to 6 db below normal erase head level. Handles reels up to 10 1/2" dia. x 1 1/2" wide. Size 3 3/4" x 5 1/4" x 6 3/4" 110 V. 60 Hz. AC. UL listed. Wt. 8 1/2 lbs.

No. 11B409. Net Each..... **\$41.25**



① **EMPTY TAPE REELS OF EVERY SIZE.** Perfectly molded of clear plastic. Standard hub. Average wt. 8 oz.

Stk. No.	Size	Net Price	Stk. No.	Size	Net Price
11A973	2"	6 For 94c	11A977	4"	4 For \$1.09
11A974	2 1/2"	6 For 94c	11A978	5"	2 For .90
11A975	3"	6 For 94c	11A979	7"	2 For 1.00
11A976	3 1/4"	4 For 94c			

④ **LOW TORQUE 7" REEL.** Larger hub reduces the effect of variable pull on tape caused by recorder take-up drive. Reduces wow and flutter, winds tape evenly. Capacity 1600 ft. 1/2 mil tape, 1200 ft. 1 mil, 800 ft. 1 1/2 mil.

No. 11A980. Package of 2 For..... **\$1.72**

⑤ **"QUICK-CLEAN" FELT PEN.** Simple, safe cleaning of recorder heads. Applies fast drying solvent to remove oxide and grime deposits from heads. Pen has convenient pocket clip. Imported.

No. 11A7609. Each..... **\$1.38**

⑥ **BLOWER BRUSH.** Squeeze blower and soft camel's hair brush, removes dust and other particles from delicate heads and guides of recorder. Ideal for dusting phonographs, records, fine optical lenses, etc.

No. 11A7610. Each..... **\$1.69**

④ **NEW ROBINS TM-2 MAGNETIC TAPE EDITING PENCIL.** Removes single sounds, noise, etc. from small areas of recording. Makes fade-in and fade-out easy.

No. 11A7506. Net Each..... **\$2.08**

⑤ **ROBINS HEAD DEMAGNETIZER.** Removes residual magnetism that accumulates in all record heads causing excessive noise and hiss during recording and playback. Easy to use. For 110 v. 60 Hz. AC.

TD-6 Professional Model. U/L listed. 4 5/8 x 1 1/2" dia. **\$8.56**

No. 11A794. Wt. 1 lb. Net Each.....

TD-3 Economy Model. 3 1/2 x 1 1/4" dia. **\$5.49**

No. 11A998. Wt. 8 oz. Net Each.....

⑥ **HEAD CLEANING TAPE.** Chemically treated. Just run through recorder to clean recording heads, tape guides, etc. Wt. 6 oz.

No. 11B41. THC-5. 5" Reel. Net Each..... **\$2.89**

No. 11B404. THC-3. 3" Reel. Net Each..... **\$1.65**

③ ROBINS TAPE ACCESSORY AND "KARE" KITS

TK-8DLX DELUXE TAPE ACCESSORY KIT. Contains TS-8D Deluxe Splicer, 1/2" Splicing Tape, Tape Threader, Head Cleaner, Head and Guide Lubricant, Tape Jockey Cloth, Tape Clips, Title Labels, Reel Holders and Tape Editing and Splicing Guide Book. Wt. 2 lbs.

No. 11B153. Net Each..... **\$17.25**

TK-6 TAPE HEAD CLEANER AND LUBE KIT. 2 oz. bottles Head Cleaner and Head and Guide Lubricant.

No. 11B154. Wt. 6 oz. Net Each..... **\$1.79**

TK-7 CHEMICAL TAPE KARE KIT. 2 oz. bottles Head Cleaner, Head and Guide Lubricant, Tape and Phono Drive Oil, Non-Slip for Tape and Phono Drives and 50 Swabs for Cleaning and Oiling. Wt. 1 1/2 lbs.

No. 11C124. Net Each..... **\$3.44**

⑩ **Head Cleaner Spray Aerosol** formula removes accumulated oxides for improved fidelity. For all types of tape recorders. Complete with extension nozzle.

No. 11A7522. Model THS-1. 4-oz. Can. Net Each..... **\$1.72**

ROBINS TAPE RECORDING NEEDS

④ **TITLE LABELS.** Write or type. 2x1/2", self-sticking. Wt. 7 oz.

No. 11A984. Pkg. of 180 For..... **\$1.24**

⑤ **TAPE "JOCKEY CLOTH".** Cleans and lubricates tapes. Silicone impregnated. Washable and reusable. Wt. 3 oz.

No. 11A769. Pkg. of 3 For..... **98c**

⑦ **HEAD CLEANER.** Removes accumulated oxides from recorder.

No. 11A768. 2 Oz. Bottle. Wt. 4 oz. Each..... **94c**

⑧ **TAPE CLIPS.** Keeps reels of tape from unwinding. Reusable.

No. 11A985. Wt. 8 oz. Pkg. of 75 For..... **\$1.24**

⑨ **REPLACEMENT TAPE RECORDER PRESSURE PADS.** Pre-cut and U-cut felt pads to fit all recorders

No. 11A986. Large Assortment. Self-Stick. Wt. 2 oz..... **\$1.05**

⑪ **FAST TAPE THREADER.** Starts tape on reel easily. Wt. 3 oz.

No. 11A587. Net Each..... **\$1.12**

⑫ **REEL HOLDERS.** Holds reel on spindle. Prevents wobble. Wt. 3 oz.

No. 11A7505 Per Pair..... **69c**

CASSETTE TAPE RECORDING ACCESSORIES



① **Cassette Tape Mailers.** Package of 18 convenient cardboard cassette mailers. Unique design protects cassette for safe mailing.

No. 11A7521. Model TCB-18. Pkg. of 18, Net Each..... **\$1.24**

② **TAPE RECORDER MICROPHONE.** Most popular omni-directional dynamic mike for tape recorders. Universal plugs fit most recorders with remote on-off switch on mike. Use hand held or with its own stand. 200 ohm impedance, 8' cable, 4 3/4" L. Black with aluminum satin trim.

No. 29A680. Shpg. wt. 5 ozs. Each..... **\$6.95**

③ **Cassette Tape Tension Winders.** Inserts in holes of cassette to wind tape in either direction and take up slack. Wind tape for easy editing and repairs.

No. 11A7542. TCW-2. Pair..... **\$1.24**

④ **Cassette Sensing and Cueing Tape.** Aluminum foil tape can be cut to any length and placed on any desired section of Cassette tapes to cue automatic stop, reverse, and other electronic sensing controls. 140" x 150" length.

No. 11A7628. TSP-140. Each..... **\$3.10**

⑤ **Cassette Tape Splicer.** Especially for editing and repairing. .150" wide tapes. Cuts tape at 45° angle. Includes 25 splicing patches.

No. 11A7528. Robins TS-115. Net Each..... **\$3.75**

No. 11A7529. Type TT-15. Extra splicing patches. **\$1.24**

⑥ **Cassette Replacement Title Labels.** Package of 20 self-stick die-cut labels. Replace worn labels. Title and identify recordings.

No. 11A7630. Model TCL-20. Each..... **\$1.24**

B-A's TAPE RECORDER ACCESSORIES



CASSETTE ERASER

Takes sound off cassettes equal to new. You'll hear the noise difference between the eraser and recorder erase. The audible difference, -5db to 20 db, depending on recorder used and the quality of cassette tape. Operates on 4 "AA" batteries (not supplies). Shpg. wt. 1 1/2 lbs.
 No. 11A7629. Mfg. List \$12.50
Net Each \$9.95
 No. 21A3. "AA" Batteries. Each 17

UNIVERSAL BULK TAPE ERASER



\$10.90

FOR REELS UP TO 7, CASSETTES, 4 TO 8 TRACK CARTRIDGES
 Erases a complete reel of tape quickly, easily with greatest efficiency without rewinding. Takes just seconds. Permits improved, distortion-free recordings by "quieting" tapes 3 to 6 db. Far better than erasing on the average recorder. For 117 V. 60 Hz. AC. Wt. 4 lbs.
 No. 11A7504. **\$10.90**
 Quality Import

PROFESSIONAL CASSETTE BULK ERASER

Removes recorded sounds from entire cassette of tape in seconds, restoring tape to like-new blank condition. Far superior to erasing on a recorder. For 110 V. 60 Hz. Shpg. wt. 5 lbs.
 No. 11A7530. Robins TMC-1. **\$16.50**
 Mfg. List \$22.00. Net Each



PROFESSIONAL 4 AND 8 TRACK BULK ERASER

Restores entire cartridge of tape to like new blank condition in seconds. 110 V. 60 Hz. Shpg. wt. 5 lbs.
 No. 11A7531. Robins TMC-2. Mfg. List \$33.00 **Net Each \$24.80**



1 CASSETTE PLAYER/RECORDER HEAD DEMAGNETIZER

Deluxe cassette size device simply plugs into machine like a regular cartridge. Removes all tape head magnetic build-up, restoring original fidelity of recorder. For 110 V. 60 Hz.
 No. 11A7532. **Net Each \$7.75**

1 CASSETTE PLAYER/RECORDER TEST STROBE

Check your recorder/player for correct speed. Has built-in strobe tape and light. Operation: 110 V. 60 Hz. AC.
 No. 11A7543. **Each \$5.12**

2 DELUXE 4 AND 8 TRACK HEAD DEMAGNETIZER

For auto cartridge players. Operates on 12 V. DC. Plugs into cigarette lighter. Recommended by equipment manufacturers for restoring original fidelity of player after every 15-20 hours of operation.
 No. 11A7533. **Net Each \$14.68**

2 8 TRACK CARTRIDGE TEST STROBE

Check your recorder/player for speed accuracy. Has built-in strobe tape and light. Operation: 110 V. 60 Hz. AC.
 No. 11A7544. **Each \$6.20**

NORTRONICS TAPE HEADS

B-A supplies Nortronic Tape Heads for over 3000 foreign and domestic recorders. Most popular heads are in stock for immediate delivery. Write or call for information and price of head to fit your machine. Specify make, model, head number and track configuration of your recorder.



Nortronics replacement guide. Tape head specifications and conversion information.
 No. 16A1214. **Each \$3.00**

Replacement head for cartridge players. Fits over 90% of auto and home players.
 No. 11A7579. Nortronics 5800. **Each \$10.90 4 Each \$9.80**



NORTRONICS PROFESSIONAL ALIGNMENT TAPES

QM-401 (AT-100) Alignment Tape for Reel-to-Reel Recorders. 7.5 ips, 1/4" splice-free master with zero reference, azimuth alignment and frequency response tests. Recorded full track for use on any 1/4" track format.
 No. 11A7626. **Net Each \$9.90**

QM-440 (AT-200) Alignment Tape for Cassette Recorders. Splice-free, 1st generation master with zero reference, azimuth alignment and frequency response tests to DIN standard. For use with all track configurations.
 No. 11A7627. **Net Each \$23.50**



PLAYER AND RECORDER HEAD DEMAGNETIZERS

UNIVERSAL TAPE HEAD DEMAGNETIZER

Aid for better tape recording. Quickly rids recorder of one cause of high noise - the accumulation of permanent magnetism in recording, erase and playback heads. Simple to operate, with instructions. 115 V. AC.
 No. 11A1052. **\$3.95**
 Import Special

CARTRIDGE PLAYER/RECORDER HEAD DEMAGNETIZER

Quickly eliminates residual magnetism in record and playback heads, the common cause of high noise level in tape recordings. Long slim 7 1/2" body permits easy access to deep recessed heads in all recorder-player units. Full instructions for use by anyone. Wt. 1 lb. Top quality import.
 For 12 V. DC Transistorized.
 No. 11A7503. **Special Each \$5.98**

SAVE ON THESE TAPE RECORDER AIDS!



TELEPHONE PICKUP COIL

For recording conversations or making loud speaking telephone when used with a standard recorder or mike amplifier. Installs by slipping under phone or laying on ringer box. 4 1/2" L. x 1 1/2" W. 56" cable. Wt. 6 oz.
 No. 32A4000 **\$1.49**
 Special

JIFFY PHONE PICKUP COIL

Jiffy suction cup attaches to side of telephone or back of handset. Does not interfere with telephone operation. With shielded cable. Giant import savings.
 Wt. 6 oz.
 No. 11A1057 **\$1.49**
 Special

B-A TAPE SPLICER BARGAIN

Cuts, trims, splices in sections quickly, clean, without losing a significant part of the recorded sound. Well made import.
 Wt. 3/4 lb.
 No. 11A7501 **\$2.98**
 Special Each



EXTRA SAVINGS ON B-A's TAPE ACCESSORY OUTFIT

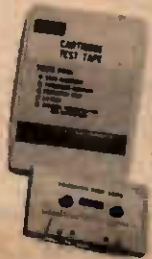
Always needed aids for better recordings. Kit contains a fast action tape splicer for professional style editing of tapes, a demagnetizer to quickly rid the recorder heads of noise producing permanent magnetism, a telephone pickup for phone recording, universal patch cord for attachment to radio or TV and a Tape Care lubricant and head cleaning kit. Top quality throughout. Shpg. wt. 3 lbs.
 No. 11A7539. **Complete Kit B-A Special, Only \$7.95**

AUTO & HOME TAPE CARE KIT

A "must" for the cartridge type players. Includes tape lubricant and head cleaning solution with brush, applicators and cloth.
 No. 11A7536. **Special Each \$1.79**

PROFESSIONAL QUALITY TEST TAPES

Check tape recorders and players for performance and proper alignment. These precision tapes contain recordings to check or measure frequency response and equalization, flutter, wow, distortion, stereo balance, separation and channel identification and tape head alignment.
 No. 11A7603. **Cassette type. \$4.49**
 Each
 No. 11A7604. **Cartridge type (4 & 8 track). \$6.39**
 Each
 No. 11A7605. **Reel-to-Reel type (4 track stereo 7 1/2 I.P.S. 5" reel) Each \$5.49**
 X-87 Torquette Test Cartridge. Tests the take-up torque of cassette tape players.
 No. 11A7608. **Each \$6.25**





SCOTCH RECORDING TAPE



"SCOTCH" BRAND TAPES

Most widely used of all magnetic recording tapes. Smooth and flexible . . . provides flawless sound reproduction at lowest cost. Its flexibility allows perfect head conformity, produces excellent wide range response.

TYPE 206 PROFESSIONAL MASTERING TAPE, 1 1/2 MIL

Posi-Trak backing is tougher, more scratch resistant, does not attract dust. Popular for professional mastering, you get a full 50% increase in output over standard low noise tapes.

Stk. No.	Fact. No.	Reel	Length	Wt.	Net Ea.	6 Ea.	12 Ea.
11A1202	206-1/4-R60	7"	*60 min. 12 oz.	\$4.94	\$4.49	\$4.04	
11A1204	206-1/4-2500RO	10 1/2"	+2500 ft. 34 oz.	10.30	9.36	8.42	

* Minutes are both directions at 7 1/2 inches/second.

+ RO-10 1/2" aluminum reel with 3" (NAB) center hole.

TYPE 207 PROFESSIONAL MASTERING TAPE

Same as Type 206 above, but 1 mil thick allows 50% more tape on each reel.

11A1203	207-1/4-R90	7"	*90 min. 12 oz.	\$6.26	\$5.69	\$5.12	
11A1205	207-1/4-3600RO	10 1/2"	+3600 ft. 34 oz.	14.47	13.15	11.83	

* Minutes are both directions at 7 1/2 inches/second.

+ RO-10 1/2" Aluminum reel with 3" (NAB) center hole.

TYPE 202 DYNARANGE—1 1/2 MIL POLYESTER

Provides brilliant low noise recording at half the normal recording speeds—twice the time, yet total fidelity plus economy. The choice of professionals and advanced non-professionals.

11B497	202-1/4-600	5"	600' 6 oz.	\$2.30	\$2.09	\$1.88	
11B546	202-1/4-1200	7"	1200' 12 oz.	3.85	3.50	3.15	
11A1233	202-1/4-2500RO	10 1/2"	+2500' 34 oz.	9.22	8.38	7.54	

+ RO-10 1/2" aluminum reel with 3" (NAB) center hole.

TYPE 203 DYNARANGE—1 MIL POLYESTER

Industry Standard Low Noise Tape. Same as Type 202 above but with 1 Mil. backing. Allows 50% more tape per reel.

11B499	203-1/4-900	5"	900' 6 oz.	\$3.27	\$2.97	\$2.68	
11B597	203-1/4-1800	7"	1800' 12 oz.	5.56	5.05	4.54	
11A1234	203-1/4-3600RO	10 1/2"	+3600' 34 oz.	12.95	11.77	10.60	

+ RO-10 1/2" Aluminum reel with 3" (NAB) center hole.

TYPE 150 EXTRA PLAY TAPE—1 MIL MYLAR. Same size reel plays 50% longer than 1 1/2 mil base tapes.

11A544	150-1/4-900	5"	900' 6 oz.	\$2.64	\$2.40	\$2.16	
11A545	150-1/4-1800	7"	1800' 12 oz.	4.52	4.11	3.70	

TYPE 200 DOUBLE PLAY—1/2 MIL TENSILIZED MYLAR. Specially conditioned tough Dupont Mylar extra thin base, allows twice the normal recording-playing time compared to 1 1/2 mil tapes.

11A778	200-1/4-1200	5"	1200' 6 oz.	\$4.26	\$3.87	\$3.49	
11B594	200-1/4-2400	7"	2400' 12 oz.	7.35	6.68	6.02	
11B564	*200-1/4-4800RPS	10 1/2"	4800' 34 oz.	16.62	15.11	13.60	

*RPS-10 1/2" Plastic Reel with 3/4" (EIA) center hole.

TYPE 290 TRIPLE PLAY—1/2 MIL TENSILIZED MYLAR. Extra long play, with ultra-thin backing and coating. Gives up to three hours at 3 3/4 ips speed.

11B708	290-1/4-1800	5"	1800' 6 oz.	\$5.41	\$4.92	\$4.43	
11A887	290-1/4-3600	7"	3600' 14 oz.	8.79	7.99	7.19	
11B637	*290-1/4-600LL	3"	600' 3 oz.	2.19	1.99	1.79	

*Living letter tape in individual plastic mailing box.

TYPE 111 GENERAL PURPOSE STANDARD TAPE—1 1/2 MIL ACETATE. Regarded as the performance standard of the recording industry. All-purpose, first-choice of most engineers and recording fans for flawless sound reproduction. On easy threading clear plastic reels.

11A551	111-1/4-150	3"	150' 2 oz.	\$0.61	\$0.55	\$0.49	
11A554	111-1/4-600	5"	600' 6 oz.	1.95	1.77	1.60	
11A559	111-1/4-1200	7"	1200' 12 oz.	2.94	2.67	2.40	
11B623	*111-1/4-150LL	3"	150' 3 oz.	.79	.72	.66	

*Living letter tape packed individually in plastic mailing box.

TYPE 175 "TENZAR"—STANDARD PLAY—1 1/2 MIL BASE

Priced only slightly higher than acetate-backed tapes, yet provides 15 times more wearability. Perfect for educational and language-lab use, for all-weather use and long time storage. Has new black oxide coating. On clear plastic reels.

11A755	175-1/4-600	5"	600' 6 oz.	\$1.85	\$1.68	\$1.51	
11A756	175-1/4-1200	7"	1200' 12 oz.	2.84	2.58	2.32	

TYPE 156 SPECIAL LUBRICATED - 1 MIL POLYESTER. Same Tape used by professionals for 8 track loading. For repeater mechanisms and cartridge tape players. Brown oxide externally lubricated, for continuous loop systems.

11A779	156-1/4-1800	7"	Reel Ea.	\$4.55	6 Ea.	\$4.14	12 Ea.	\$3.76
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EMPTY 3" REELS AND MAILERS

Same as used in "Living Letter" tape packages listed under types 111 and 290 above. Type 11 address labels are self-adhesive, fit any box.

No. 11A7507	RL-1/4-3. Reel And Box.	Each.	46c	6 Each.	40c	12 Each.	36c
No. 11A7508	LL-1/4-3. Box Only.	Each.	35c	6 Each.	30c	12 Each.	27c
No. 11A7509	Pkg. of 10 Labels.	Pkg.	55c	6 Pkg.	50c	12 Pkg.	45c

LARGE QUANTITY USERS OF RECORDING TAPE ARE INVITED TO SEND THEIR REQUESTS FOR QUOTATIONS TO BURSTEIN-APPLEBEE CO. -INDUSTRIAL SALES DEPT.

SCOTCH CASSETTES

HIGH ENERGY CASSETTES

Better winding with posi-trak backing than backing previously used. It is conductive so dust is not attracted to the tape. Cobalt Energized Oxide gives 3-5 db increase in signal to noise ratio, and reel-to-reel fidelity is yours to enjoy in these High Energy Cassettes. Does not require Bias Switch for optimum performance. Individually Album packaged. Average weight 2 oz.

Stk. No.	Fact. No.	Recording Time	Each	6 Each	12 Each
11A1206	SC-30-HE	30 minutes	\$2.63	\$2.39	\$2.15
11A1207	SC-60-HE	60 minutes	3.07	2.79	2.51
11A1208	SC-90-HE	90 minutes	4.39	3.99	3.59

EXTENDED RANGE CASSETTES

Same Posi-Track backing as the High Energy Cassettes above. Low noise oxide. Individually album packaged, average weight 2 oz.

Stk. No.	Fact. No.	Recording Time	Each	6 Each	12 Each
11A1209	SC-30	30 minutes	\$1.86	\$1.69	\$1.52
11A1210	SC-60	60 minutes	2.19	1.99	1.79
11A1211	SC-90	90 minutes	3.29	2.99	2.69
11A1212	SC-120	120 minutes	4.39	3.99	3.59

LOW NOISE SCOTCH BLANK 8-TRACK CARTRIDGES

40 AND 80 MINUTES RECORDING TIME

40 MINUTES RECORDING TIME **\$2.50**



Highly dependable blank 8-track cartridges. Long play in 40 minutes and 80 minutes recording time. Precision tape inside is the one used by professionals for critical continuous loop recording. Low noise oxide.

Stk. No.	Fact. No.	Description	Each	6 Ea.	12 Up Ea.
11A1172	S-8TR-40	40 Minutes Playing Time	\$2.50	\$2.17	\$1.95
11A1173	S-8TR-80	80 Minutes Playing Time	2.80	2.53	2.28

SCOTCH EMPTY REELS AND BOXES

Stk. No.	Size	Capacity	Wt.	Net Ea.	6 Ea.	12 Ea.
11A570	3"	150'	2 oz.	\$0.24	\$0.23	\$0.21
11A572	5"	600'	4 oz.	.54	.48	.44
11A573	7"	1200'	5 oz.	.63	.57	.51

PRST-7 SELF-THREADING REEL

11B728, 7", 1200', 5 oz. Ea. 1.15 6 Ea. 1.00 12 Ea. 0.90

TRUE-RUNNING 10 1/2" REELS WITH BDXES

Aluminum NAB Type with flanges, Wt. 1 lb.
No. 11A603, Each. \$5.99 6 Each. \$5.42 12 Each. \$4.88

Plastic EIA Type (with 3 holes).
No. 11A549, Each. \$3.45 6 Each. \$3.00 12 Each. \$2.70

EMPTY BOXES FOR 5 AND 7 INCH REELS

No. 11A7613	5-Inch, Each	31c	6 Each	28c	12 Each	25c
No. 11A7614	7-Inch, Each	38c	6 Each	34c	12 Each	31c

SCOTCH NO. 12 END-OF-REEL TAPE CLIPS

Clips securely to tape. Fits inside reel, won't distort. Wt. 3 oz.
No. 11A186. Package of 10 For. \$3.50

SCOTCH LEADER AND TIMING TAPE AND SPLICING TAPE

Attach to ends of recorded tapes to prevent repeated breakage; or between selections for identification and timing. White. Write-on type.

No. 11A578	Type 24-1 W. 1/4" x 100 Ft.				
Each	69c	6 Ea.	60c	12 Ea.	54c
Yellow Type 24-1 Y Write-On Tape.	1/4" x 100 Ft.				
No. 11A7510					
Each	69c	6 Each	60c	12 Each	54c

SCOTCH TYPE 621 SPLICING TAPE

1 mil polyester. 621 may be used to splice all recording tapes. Always use 621 to splice tapes with Posi-Track backing.

No. 11A7623	7/32" x 66'	Each	\$3.25	12 Each	\$2.89
No. 11A7624	1/2" x 66'	Each	\$4.87	12 Each	\$4.35

S-SK Splicing Kit. Includes a splicing block and 150 inches of 621 splicing tape on a dispenser.

No. 11A7625, Each \$1.59 6 Each \$1.39

Scotch Type 41 Splicing Tape

No. 11A576, 1/2" x 150' Each 48c 12 Each 43c

CONDUCTIVE CUBING AND REVERSING TAPE. Electrically conductive metal foil on tough Mylar base with non-oozing adhesive back. Attaches directly to either side of recording tape without solvents. Re-usable.
No. 11B729, Scotch Type 51-7/325, 3/4" wide x 150 in. Roll.
Net Each \$1.89 12 @ Each \$1.70

RCA Red Seal has meant the finest in recording quality for over fifty years. Now the Red Seal standard of quality goes on RCA Tape Cassettes

New RCA Red Seal Cassettes

COBALT ENERGIZED

RCA THE FAMOUS NAME IN RECORDING
60 MINUTES

AS LOW AS **\$2⁵²** EACH

RCA

RCA Red Seal Cobalt Energized Cassettes the new generation low noise, high output, and extended frequency range, with superior performance over conventional low noise tapes. Improved signal output, especially at higher frequencies, gives increased signal-to-noise ratio. Red Seal Cassettes are compatible with existing playback and recording equipment. There is improved tape performance, with no need for special bias or equalization circuitry. Calendered surface, combined with a lubricated binder, assures quality performance and less head wear. Precision - built with screws - to meet the demanding

needs of today's discriminating user and the flexibility requirements of the educational market. Red plastic album box with index insert. Made in USA. Shpg. wt. 2 oz.

Stock No.	Size and Description	Mfg. List	Net Each	6 Each	48 Each
11A1230	C-60 60 minutes	\$3.15	\$2.52	\$2.10	\$1.91
11A1231	C-90 90 minutes	4.15	3.32	2.74	2.49
11A1232	C-120 2 hours	4.75	3.80	3.28	2.99

RCA BLANK 8-TRACK STEREO CARTRIDGES

LONGEST PLAYING TIME AVAILABLE!

94 MINUTE PERMITS TAPING UP TO 5 LP's ON ONE TAPE

64 MINUTE
\$2⁴⁹



94 MINUTE
\$3¹⁹

Our best selling 8 track tapes. Professional quality tensilized polyester lubricated tape. Low noise oxide gives top performance with all makes of equipment. Make your own auto stereo and home entertainment tapes at a fraction of the cost. Shpg. wt. 5 oz.

Stock No.	RCA No.	Length	Playing Time	Mfg. List	Each	12 Each
11A1163	8TR32	150 ft.	32 Min.	\$2.45	\$1.99	\$1.79
11A1164	8TR64	300 ft.	64 Min.	2.95	2.49	2.25
11A1191	8TR94	440 ft.	94 Min.	3.70	3.19	2.99

RCA REEL-TO-REEL RECORDING TAPE

Your Assurance of Quality



This superlative tape is the result of today's most advanced techniques. RCA has developed a special lubricant... an integral part of the tape coating... which aids in smoother tracking over the guides and magnetic head surfaces, resulting in a minimum of friction and wear. Polyester base is stronger than acetate with high resistance to temperature and humidity extremes.

RCA ACETATE TAPE ON REELS

Stock No.	RCA No.	Reel & Length	Description	WT. Ozs.	Mfg. List	Net Each	6 @ Each	12 @ Each
11A1171	15A1PM*	3"-150'	1.5 Mil	2	\$1.00	\$0.70	\$0.67	\$0.80
11A1165	15A1	3"-150'	1.5 Mil	2	.80	.56	.82	.47
11A1166	15A6	5"-500'	1.5 Mil	6	2.55	1.79	1.66	1.52
11A1167	15A12	7"-1200'	1.5 Mil	12	3.90	2.73	2.59	2.33

*In re-useable plastic mailer-storing box.

RCA POLYESTER TAPE ON REELS

11A1129	10M9	5"-900'	1.0 Mil Long Play	6	3.45	2.44	2.29	2.06
11A1168	5TM12	5"-1200'	1.5 Mil Double Play	6	5.55	3.89	3.69	3.32
11A1130	15M12	7"-1200'	1.5 Mil Standard Play	12	4.25	2.96	2.83	2.58
11A1131	10M18	7"-1800'	1.0 Mil Long Play	12	6.00	4.20	3.99	3.58
11A1132	5TM24	7"-2400'	1.5 Mil Double Play	12	9.75	6.82	6.49	5.84

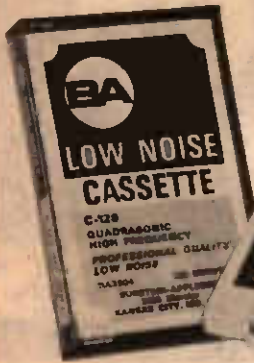
LOW NOISE AND LOW PRINT WITH LEADER & TRAILER

11A1170	15MLN12LT	7"-1200'	1.5 Mil Super St.	12	6.45	4.32	4.30	3.87
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SAVE! B-A DELUXE RECORDING TAPE

BA

LOW NOISE CASSETTES



LOW AS **88c**
12 LOTS EACH
30 MINUTE CASSETTE

- Screw together housing.
- Album storage case.
- Index insert.

Now includes professional calendered low noise tape, screw together housing, album storage case and index insert.

Don't be misled by the low price! These are first quality Cassette tapes priced way down to beat all competition. You can buy and save with complete confidence because B-A buyers have checked the important design, manufacturing and material requirements that assure high fidelity and finest performance in any make recorder. Note these facts: Beryllium copper constant pressure springs, mu-metal magnetic shielding, one-piece molded tape guide rollers on stainless steel pins, anti-static moisture resistant wafer shield, precision assembly techniques and in addition ... top quality lubricated polyester recording tape.

Fully covered by B-A's liberal warranty: If you're not satisfied return at once for exchange or your money back!

No. 11A3501. 30 Minute Cassette (15 Minutes per side) Wt. 6 ozs. Each.....	99c	12 @	88c
No. 11A3502. 60 Minute Cassette (30 Minutes per side) Wt. 8 ozs. Each.....	\$1.29	12 @	\$1.09
No. 11A3503. 1½ Hour Cassette (45 Minutes per side) Wt. 12 ozs. Each.....	\$1.89	12 @	\$1.69
No. 11A3504. 2 Hour Cassette (60 Minutes per side) Wt. 16 ozs. Each.....	\$2.49	12 @	\$1.99

B-A CASSETTE HEAD CLEANER TAPE

Quickly removes accumulated tape oxide from recorder head restoring original recording and playback capability. Highest quality U.S.A. made. **\$1.29**
No. 11A7526. Each



DELUXE QUALITY POLYESTER RECORDING TAPE

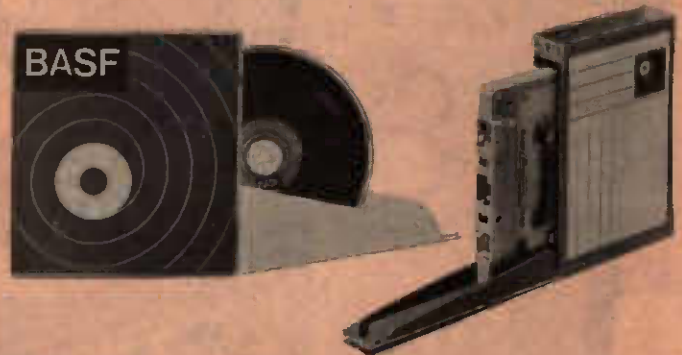
COMPARE THIS LOW PRICE! **\$5.39** 5 LOTS EACH
3600' POLYESTER ON 7" REEL

B-A proudly offers this fine recording tape for the critical user who desires the utmost quality recordings and wants to save money too! Precisely formulated for uniform response, no rub-off, no print through. Backing is tensilized polyester as indicated. Unaffected by temperature or humidity and conform to tape heads closely for best frequency response. Each box has plastic seal. Made in U.S.A. If you're not satisfied, return at once for exchange or your money back!

Available in these popular Reel Lengths

Stock No.	Reel	Feet	Description	Wt.	Net Each	5 Lots Each
11A5509	7"	1800	1 Mil Polyester	12 Oz.	\$2.69	\$24.45
11A5510	7"	2400	½ Mil Polyester	12 Oz.	4.39	3.99
11A5511	7"	3600	½ Mil Polyester	14 Oz.	5.99	5.39
11A3506	7"	1200	1½ Mil Polyester	12 Oz.	2.29	1.99

BASF DELUXE FULL RANGE RECORDING TAPE



BASF. The "ageless" recording tape. Developed in Europe, now acclaimed by the U.S.A. Hi-Fidelity recording market because of exceptional performance. Perma-store library boxes fit neatly on a shelf. Tip open for easy removal of reel. Luvitherm poly vinyl chloride base is extremely supple, giving highest possible conformation to tape head. Not affected by temperature and humidity variations. Colored leader tape on each end. Automatic stop switch foil.

BASF CASSETTES IN PLASTIC SWIVEL BOX

Suitable for mailing. Extra mailing labels.

Stock No.	BASF No.	Description	1-4 Each	5-10 Each	11 up Each
11A1144	C-30	30 Minutes	\$1.99	\$1.79	\$1.59
11A1145	C-60	60 Minutes	2.29	2.09	1.89
11A1146	C-90	90 Minutes	3.39	3.09	2.79
11A1147	C-120	120 Minutes	4.39	3.99	3.59

BASF CHROMDIOXIDE CASSETTES IN PLASTIC SWIVEL BOX

Chromium dioxide is a totally new and quite different coating. Much more durable, distortion free and capable of higher output. Extended dynamic range of the high end of the audible scale. Best results are achieved on recorders with Cr02 Switch.

Stock No.	BASF No.	Description	1-4 Each	5-10 Each	11 up Each
11A1215	C-60 Cr02	60 minutes	\$3.19	\$2.79	\$2.49
11A1216	C-90 Cr02	90 minutes	4.89	4.29	3.79
11A1217	C-120 Cr02	120 minutes	6.79	5.99	5.29

BASF 8-TRACK BLANK TAPE CARTRIDGES

Stock No.	Playing Time	1-4 Each	5-10 Each	11 up Each
11A1235	45 Minutes	\$ 2.39	\$2.19	\$1.89
11A1186	64 Minutes	2.85	2.59	2.34
11A1187	84 Minutes	3.59	3.29	2.99

BASF MAGNETIC TAPES IN LIBRARY STORAGE BOXES

Stock No.	BASF No.	Reel Length	Descrip.	Wt. Oz.	1-4 Each	5-10 Each	11-up Each
11A1137	SP-52	5"-600'	1.5 Mil.	10	\$2.09	1.99	1.79
11A1138	SP-52	7"-1200'	1.5 Mil.	16	3.19	2.99	2.69
11A1139	LP-35	5"-900'	1.0 Mil.	9	2.85	2.69	2.39
11A1140	LP-35	7"-1800'	1.0 Mil.	18	4.59	4.35	3.89
11A1141	DP-26	3"-300'	¾ Mil.	3	1.59	1.49	1.29
11A1143	DP-26	7"-2400'	¾ Mil.	18	6.65	6.25	5.59
11A1182	TP-18	3"-450'	½ Mil.	3	2.45	2.29	1.99
11A1183	TP-18	5"-1800'	½ Mil.	10	6.49	6.15	5.49
11A1184	TP-18	7"-3600'	½ Mil.	16	9.99	9.39	8.49

BASF LOW NOISE-HIGH OUTPUT MAGNETIC TAPE

Stock No.	BASF No.	Reel Length	Descrip.	Wt. Oz.	1-4 Each	5-10 Each	11-up Each
11A1176	LP35LH	5"-900'	1.0 Mil.	9	\$3.35	3.15	2.75
11A1177	LP35LH	7"-1800'	1.0 Mil.	18	5.79	5.49	4.79
11A1178	DP26LH	5"-1200'	¾ Mil.	10	4.75	4.49	3.89
11A1179	DP26LH	7"-2400'	¾ Mil.	18	7.79	7.29	6.39
11A1180	TP18LH	5"-1800'	½ Mil.	10	7.39	6.99	6.09
11A1181	TP18LH	7"-3600'	½ Mil.	16	11.15	10.49	9.19

BASF MAGNETIC RECORDING TAPE ACCESSORIES

Stock No.	Description	1-4 Each	5-10 Each	11-up Each
11A7547	Empty 5" Plastic Swivel Box	1.35	1.25	1.12
11A7548	Empty 7" Plastic Swivel Box	1.69	1.49	1.36

THE HOBBY BOX

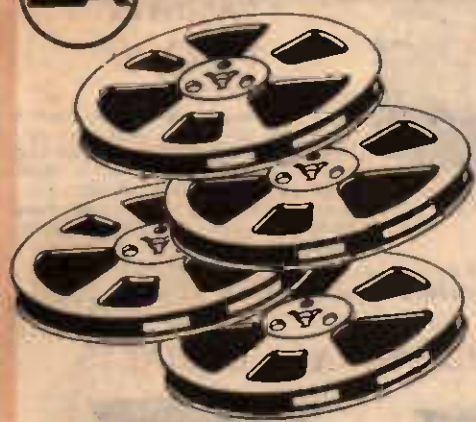
\$4.99

Contains everything needed for tape editing: precision splicer, splicing tape, leader tapes, switching folios, reel labels, tape clips and editing pencil. Shpg. wt. 2 lbs. **\$4.99**
No. 11A7549. Each





TERRIFIC PRICE SAVINGS!



POPULAR SIZES OF RECORDING TAPE

1800 FT. POLYESTER 7" REEL

\$1.99 EACH

MONEY SAVING PRICES ON TOP QUALITY TAPES! EVERY ROLL GUARANTEED TO SATISFY OR YOUR MONEY BACK. MAY BE ASSORTED FOR QUANTITY PRICES

1/2 MIL POLYESTER BASE. 600' on 3 3/4" Reel. No. 11A1100. Each.....	\$1.19	10 @ Each.....	99c
1 1/2 MIL ACETATE BASE. 600' on 5" Reel. No. 11A455. Each.....	89c	10 @ Each.....	79c
1/2 MIL POLYESTER BASE. 1200' on 5" Reel. No. 11C682. Each.....	\$1.69	10 @ Each.....	\$1.49
1 MIL POLYESTER BASE. 1800' on 7" Reel. No. 11A954. Each.....	\$1.99	10 @ Each.....	\$1.79



BARGAIN SPECIAL!

MOST POPULAR REEL LENGTH!
3 PACK 1800'-7" REEL
TOP QUALITY 1 MIL POLYESTER

3 FOR \$4.29
No. 11A1150



BARGAIN SPECIAL!

LOWEST PRICE EVER!
PVC RECORDING TAPE
6 PACK 150'-3" REEL

6 FOR \$1.39
No. 11A1149.

3 PACK 150'-3" REEL
No. 11A1053. 3 For.....88c



BARGAIN SPECIAL!

BUY PLENTY AT THIS PRICE!

1200'-7" REEL
TOP QUALITY 1 1/2 MIL POLYESTER

PER REEL 99c
No. 11A955



BIG SAVINGS ON B-A TOP QUALITY 8 TRACK BLANK CARTRIDGES!



80 MINUTE

LOTS OF 6

\$1.99 EACH

Loaded with fine quality lubricated tape. Top performance with any 8 track recorder. Wt. 4 oz.
No. 11A3505. Each **\$2.29**
6 Each **\$1.99**



4 MINUTE 8 TRACK CARTRIDGE

Use for adjusting and checking recorder settings. Avoids long play normally required with standard length cartridges. Wt. 4 oz.
No. 11A1152 12 Each **\$2.29** Each **\$2.09**

8 TRACK HEAD CLEANER TAPE

Cleans player/recorder heads of accumulated oxides, grime and dust particles for improved sound. Wt. 4 oz.
No. 11A7551. Each **\$1.99**



BARGAIN SPECIAL!

FINE FOR TALKING LETTERS

3 PACK C60 CASSETTES

Loaded with High Quality Tape

3 FOR \$1.79
No. 11A1148



\$2.99

DOUBLE HEADER 8 TRACK CLEANER TAPE

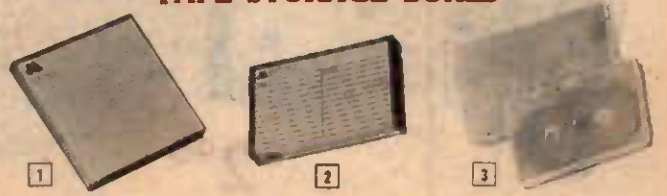
Special "double-header" Cartridge has Beeper Head Cleaner Tape at one end, and Tape Drive Capstan Cleaner Tape at the other end. Either end of Cartridge fits equipment. Beeper cleaning tape has recorded beep signals to indicate number of times tape passes and contacts head of player-recorder during cleaning operation.
No. 11A7619. Each **\$2.99**

CARTRIDGE ANTI-DUST CAPS

Clips over tape end of cartridge protecting opening from dust, grime and accidental damage. You need one for every cartridge in your valuable tape collection.
No. 11A7534. Robins TJ-12 For Cassettes. **\$1.09**
Package of 12 For.....
No. 11A7535. Robins TJ-10 For 4-8 Track. **\$1.09**
Package of 10 For.....



TAPE STORAGE BOXES



- (1) Plastic Phillips Album type storage case for 7" reel tape. **89c**
No. 11A7554. Each
- (1) Plastic Phillips Album storage case for 5" reel tape. **69c**
No. 11A7553. Each
- (2) 3-pack Phillips Album type cassette boxes. **69c**
No. 11A7555. Pkg. of 3
- (3) 6 lifetime hinged soft plastic cassette storage cases. **69c**
No. 11A7552. Pkg. of 6

8 TRACK CARTRIDGE CARRYING CASE



SUPER DELUXE "DOUBLE STRAPPER"

\$11.95

Holds 24 Cartridges

A MUST FOR EVERY TAPE OWNER!

Protect your tapes from damage or loss with this beautifully styled 8-track carrying case. Vinyl Covered Aluminum Valance in the Tongue-in-Groove Design enhances the beauty and helps prevent water seepage. Titles are easy to read with upright storage.

No. 23A203. Black, Each.....**\$11.95**
No. 23A204. Olive Green, Each.....**\$11.95**

DELUXE CARRYING CASES



\$9.95

PERFECT FOR CAR... BOAT... HOME... PARTIES!

Sturdy wood construction covered in durable black alligator grained vinyl with attractive red plush interior. For 4 or 8 Track Cartridges.

Holds 24 Cartridges
No. 23A181, Each.....**\$9.95**
Holds 15 Cartridges
No. 23A185, Each.....**\$7.95**

Sturdy wood construction covered in durable black alligator grained vinyl with attractive red plush interior. Cassettes stock horizontally. Equipped with lock and key. Storage capacity 30 cassettes.

No. 23A182, Each.....**\$9.95**
Holds 30 Cassettes, Each.....**\$9.95**

TAPE STORAGE ALBUMS FOR CASSETTES OR 8-TRACK CARTRIDGES



\$2.95

Holds 12 Cassettes. Beautiful textured vinyl cover. Neat way to store your tape library. Sits on a shelf like a book. Perfect to carry with you. Molded plastic interior holds cassettes firmly. Cassettes push in and lift out easily. Size 10 1/4" X 9 1/2" X 1 1/4". Wt. 1 lb.

No. 23A183, Special Each.....**\$2.95**

Holds Eight 8-Track Tape Cartridges. Similar to Cassette Album above. Size: 12 3/4" x 10 1/2" x 2 1/8". Wt. 2 lbs.

No. 23A188, Special Each.....**\$3.98**



DELUXE TAPE STORAGE CABINETS
\$19.95

Beautiful appearance and construction as found on deluxe component systems. Keeps tapes fully accessible and dust free. Handsome walnut base. Smoked plastic top is hinged or removeable. Titles are easily read through the top. Plush blue velvet lining. Shpg. wt. 6 lbs.

No. 23A243. Holds 24 8 track tapes. Size: 13" x 9" x 6".
No. 23A244. Holds 26 cassette tapes. Size: 13" x 9" x 5 3/4".
CHOICE EACH.....**\$19.95**

NEW HOME STORAGE CABINETS



FOR TAPE CARTRIDGES AND CASSETTES

- Wooden construction with fine walnut-grain finish.
- Swivel base allowing easy accessibility.
- Store 12 tapes in each of 4 shelves.
- Modern decorator styling.

FOR 4 & 8 TRACK TAPE CARTRIDGES. Dimensions 9 1/2" x 9 1/2" x 12 1/2" high. Capacity: 48 cartridges

No. 23A179, Model 82TC, Each.....**\$9.95**

FOR CASSETTES. Dimensions: 8 x 8 x 10" high. Capacity 48 cassettes.

No. 23A180, Model 84TC, Each.....**\$9.95**

DELUXE HOME TAPE STORAGE CABINETS

KEEP AUTO AND HOME TAPES NEATLY FILED

\$15.95



New decorator cabinets will add to any room, the ultimate in tape cartridge and cassette storage. Attractive sliding styrene doors keep tapes in dust-free condition. Sturdy construction in high tempered Regency finished Brazilian grained walnut. Individual shelf for each tape. Use in a bookcase, on a wall, or on top of a desk or stereo cabinet.

Cartridge Cabinet holds 30 tapes. Size: 24" x 6 3/4" x 7 1/2".
No. 23A186, Wt. 7 lbs. Each.....**\$15.95**

Cassette Cabinet holds 36 tapes. Size: 21" x 4" x 7 1/2".
No. 23A187, Wt. 4 1/2 lbs. Each.....**\$15.95**

TAPE STORAGE CASES

Beautifully molded cases to hold your cassettes or 8-track tapes in perfect order. Molded inserts to hold tapes upright. Block with white top. Top has vinyl wood grain insert.

No. 23A247. Holds 15 cassettes. Size: 3 1/2" x 4 1/2" x 12 1/4". Shpg. wt. 1 lb.

No. 23A246. Holds 12 8-tracks. Size: 5 3/4" x 4 1/2" x 12 1/2". Shpg. wt. 1 1/2 lbs.

YOUR CHOICE EACH..... \$1.95

8-TRACK STACK CASE

Each case holds 10 8-track tapes. Each case nests into another for stacking. Holes in back for hanging on wall. Slanted dividers keep tapes from falling out. Makes titles easy to read. Black color. Size 4 3/4" x 5-5/8" x 8-5/8". Shpg. wt. 1 1/4 lbs.

No. 23A245, Each.....**\$1.95** 4 or More Each **\$1.69**

Panasonic MODEL RQ-409S

"THE HARLAN" COMPACT AC/BATTERY CASSETTE RECORDER

\$46⁹⁵

- Built-in Condenser Microphone
- Integrated Circuitry for Long Life

Goes anywhere! Operates on AC or 4 "C" batteries. Ruggedly designed for long life service with flawless integrated circuitry. Built-in condenser mike eliminates need to hold or talk directly into mike. Sound from every part of room is picked up clearly and precisely. Keyboard control permits one-hand, fingertip operation. Easy-matic sets perfect level control for each recording... as you record. Auto-stop protects mechanism and saves wear and tear on batteries. AC bias results in excellent wide range recordings. Other features include cassette pop-up, fast forward, fast rewind, volume control and safety lock record button to prevent accidental erasures. Earphone circuit allows monitoring as you record. Complete with pre-recorded cassette, 4 "C" batteries, AC power cord, earphone and gift box. Size: 2 3/4" H x 5 1/2" W x 10" D. Shpg. wt. 6 lbs.



No. 31A2644, Model RQ-409S, Each \$46.95

Optional Car/Boat Cord for RQ-409S plugs into cigar lighter.
No. 31A2586, Model RP-915, Each \$16.95

Shoulder Carry Case for RQ-409S.
No. 31A2652, Model RP-9409, Each \$4.95

Remote Microphone for RQ-409S.
No. 31A2651, Model RP-8162, Each \$4.95

Panasonic MODEL RQ-414S "THE KIMBALL"

AC/BATTERY CASSETTE RECORDER

\$36.88

- Cassette Eject for Easy Tape Removal.
- "Sure-Power" Switches to Battery operation if AC power fails.

A great portable recorder for complete cassette enjoyment. Battery or AC operation... Car/Boat adaptable for versatility. Has all pushbutton controls for fingertip operation. Easy-Matic sets recording level so you never get distortion from too much volume. Auto stop returns all controls and mechanism to "stop" position extending battery life and protecting internal parts. Safety-lock record button prevents accidental erasures. Has volume control for playback, fast forward, fast rewind, and AC bias for best recordings. 3 1/2" PM dynamic speaker provides full rich sound. Also has mike and DC power jacks, earphone and ext. speaker jacks. In midnight black contoured cabinet with silver trim. Complete with remote control dynamic mike, pre-recorded cassette, 6 "C" batteries, AC cord, earphone and gift box. Size: 10-3/8" H x 10-3/8" W x 3 1/4" D.
No. 31A2637, Model RQ-414S, Shpg. wt. 4 lbs. Each \$36.88
Optional Car/Boat Cord for RQ-414S. Plugs into cigarette lighter.
No. 31A2586, Model RP-915, Each \$16.95



CAR/BOAT
POWER ADAPTABLE!

Panasonic MODEL RS-254S "THE CRESTLINE"

AC/BATTERY STEREO CASSETTE RECORDER

\$99.88

CAR/BOAT POWER ADAPTABLE!

Now carry a complete stereo tape system right at your side. Car adaptable for 3-way operation. Push-button controls permit easy, one-hand operation. Easy-Matic assures perfect recordings by adjusting recording level as you record. VU meter gives input/output level and battery condition. Contour sound to suit your taste with fully continuous tone and volume controls for each channel. Two heavy-duty 5" x 3" side-firing speakers give full-range sound. Also has stereo headphone jack for private listening. Solid-state engineering provides rugged durability. Comes in midnight black with silver trim. Complete with pre-recorded cassette, 6 "D" batteries and remote mike with stand. Size: 10" H x 12 3/4" W x 4" D. Shpg. wt. 12 lbs.
No. 31A2608, Model RS-254S, Each \$99.88
Optional Car/Boat Cord for RS-254S plugs into cigarette lighter.
No. 31A2586, Model RP-915, Each \$16.95
Optional Stereo Extension Speakers for RS-254S
No. 31A2653, Model RP-8098, Pair \$49.95



Panasonic MODEL RQ-222AS

"THE CLIFTON"

BATTERY/AC CASSETTE RECORDER

- Built-in condenser microphone.
- 3-digit tape counter.
- Transistor Governor motor.
- Car adaptable.

\$79⁹⁵

Small in size, clean in design. Push button operated with continuous tone and volume controls. Built-in condenser microphone eliminates need to hold mike... picks up clearly from far away. 3-digit tape counter helps you find just the spot you're looking for. VU meter doubles as battery tester. Easy-matic prevents overload "bursts" when recording. 3" PM speaker. Frequency response 70-8500 Hz. Transistor governor motor for constant tape speed. Auto stop disengages drive mechanism at end of tape. Complete with pre-recorded cassette, 4 "C" cells, AC cord, carrying case and earphone in gift box. 5 1/8" H. x 9 1/8" W. x 1 7/8" D. Shpg. wt. 4 lbs.
No. 31A2601, Model RQ-222AS, Each \$79.95
No. 31A2586, Car/boat cord, Model RP915, Each \$19.95



Panasonic MODEL RQ-2125

POCKET SIZE AC/BATTERY CASSETTE RECORDER

- Built-In Condenser Mike
- Car/Boat or AC Adaptable

Extra-small size and super-tough ruggedness made possible by integrated circuitry. No need to hold or talk directly into a mike, built-in condenser microphone picks up sounds loud and clear even from across the room. Easy to operate with just one hand because controls are push-button operated. Easy-Matic sets the precise recording level for perfect recordings. Auto-stop returns all mechanisms to stop position to protect batteries, pinch roller, capstan, etc. when tape runs out. Hos VU meter that doubles as a battery checker. Monitor as you record by using earphone. Midnight black and silver. Complete with pre-recorded cassette, 4 size "AA" alkaline batteries, earphone, carrying case, gift box and AC adapter/recharger. Size: 4" H x 6½" W x 1¾" D. Shpg. wt. 5 lbs.

No. 31A2630. Model RQ-2125. Each \$69.95

Optional Car/Boat Cord. Permits operation from cigarette lighter.
No. 31A2586. Model RP-915. Shpg. wt. 1 lb. Each \$16.95

Remote Microphone for RQ-2125.
No. 31A2651. Model RP-8162. Each \$4.95

Rechargeable Battery Pack for RQ2125.
No. 31A2631. Model RP-9212. Each \$15.95



"THE ORINDA"

\$ 69⁹⁵

Panasonic MODEL RQ-4375

"THE DEXTER" AC/BATTERY CASSETTE RECORDER WITH BUILT-IN AM/FM RADIO

- Car Adaptable for 3-way operation.
- Built-In Condenser Microphone.

A complete system of entertainment for you to carry anywhere. Car adaptable for 3-way operation. Built-in condenser microphone picks up sounds with exceptional clarity from across the room. Push-button controls for one-hand operation. Features 3-position Easy-Matic recording for greatest versatility. Also has auto-stop to protect mechanism and save batteries when tape runs out. AC bias and erase for highest fidelity recorded sound, slide-lever tone and volume controls, fast forward and rewind, safety-lock record button, easy-load cassette, battery/VU meter, digital tape counter, speaker/earphone monitoring, slide-rule radio tuning, AFC on FM, auto-sleep switch and built-in antennas. Other features include 4" PM dynamic speaker, FM MPX output and solid state engineering for durability. In midnight black and silver. Complete with pre-recorded cassette and 6 "D" batteries. Size: 10" H x 13-3/8" W x 3-3/8" D. Shpg. wt. 6½ lbs.

No. 31A2645. Model RQ-4375. Each \$89.95

Optional Car/Boat Cord for RQ-4375. Plugs into cigarette lighter.

No. 31A2586. Model RP-915. Each \$16.95

Remote Mike for RQ-4375.

No. 31A2651. Model RP-8162. Each \$4.95



\$ 89⁹⁵

Panasonic MODEL RF-3030

BATTERY/AC OPERATION

"THE WALDEN" STEREO CASSETTE RECORDER WITH AM/FM/SW STEREO RADIO

- AC or Battery Powered
- Stereo Cassette Recorder
- Stereo Play from Radio or Cassette
- FM/AM Stereo Radio
- Shortwave Band

\$ 149⁹⁵



Versatility is the keyword in describing this complete stereo recorder-radio. Uses 6 "D" size batteries, included, operates on your AC outlet, or works from your car or boat with optional cord. The two units allow complete separation of the twin 5" PM speakers for best stereo reproduction. Records from radio or from microphone. 3 band receiver covers regular Broadcast, FM and FM stereo, and the International Short Wave bands. The radio features integrated circuitry, lighted slide rule dial, fine tuning, continuous tone control. Recorder features push button operation, Easy-Matic automatic recording volume level, auto stop at end of cassette, fast forward and rewind and sound monitor system. All solid state, has 2 input jacks for mike, 2 for Aux. Output jack for earphone or external speaker. Meter operates for FM stereo, AM-SW signal strength and recording level indications. Fold together styling and cassette storage for complete portability. Black with silver trim. Supplied with microphone, personal earphone, cassette and batteries. Size: 8" H x 12-9/16" W x 6-9/16" D. Shpg. wt. 13½ lbs.

No. 36A3542. Model RF-3030. Each \$149.95

No. 31A2586. Model RP-915. Car-Boat Cord. Each \$16.95



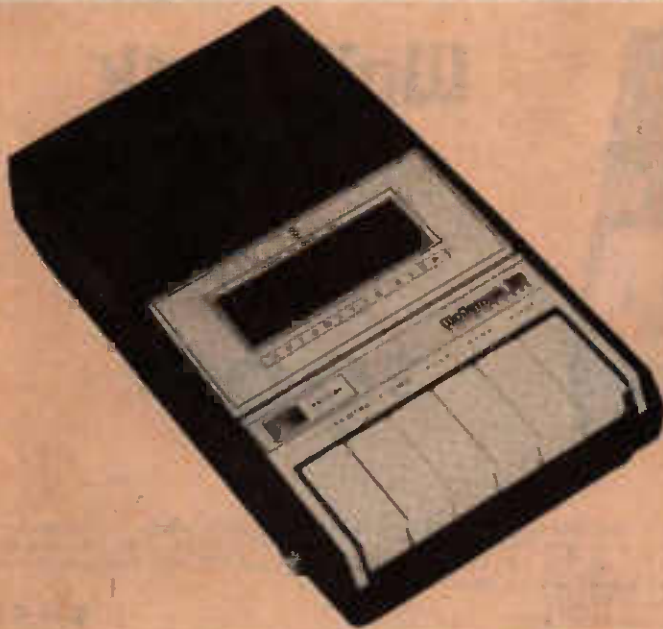
Wollensak MODEL 4055

AC/DC CASSETTE RECORDER KIT

**COMPLETE
KIT** **\$84⁹⁵**

Records and plays all monaural cassettes, plays prerecorded stereo cassettes monaurally. Push-buttons for simple operation, all solid state circuitry for long lasting reliability. Operates on 110VAC or car/boat battery. Built-in AC adapter and battery charger extend battery life. Record level may be controlled manually or automatically by recorder. Mike has remote motor switch. Also features tone control, battery condition meter, monitor output, 3-digit index counter with reset button. Reverts to "stop" position at end of tape. Push-button cassette eject. Complete with remote microphone, mike stand and pouch, power cord and earphone. Frequency response 50-10,000 Hz. 8 ohm monitor output. Size: 5 1/4" x 2 1/2" x 10". Shpg. wt. 5 lbs.

No. 31A2646. Model 4055. Each \$69.95
 No. 21A39. "C" Battery (requires 4) Each 23'
 Model 4055K Complete Kit. Includes power card, earphone, mike with stand and pouch, carrying case, DC adapter, Telephone pickup, batteries, audio cable, "Scotch" High Energy C-60 cassette. Shpg. wt. 6 lbs.
 No. 31A2648. Model 4055K. Kit Each \$84.95



Wollensak MODEL 4150K

AC/DC CASSETTE RECORDER KIT

\$69⁹⁵

Extra durable construction and solid state circuitry result in long-life operation. Operates from 5 "C" batteries, car/boat power or 110 VAC. All keyboard controls with push-button cassette eject. Completely shuts off at end of tape. Automatic record level is built-in ... no more guessing. Plays stereo cassettes in mono. Records and plays mono cassettes. Battery indicator tells when it's time to replace. Frequency response 60-8,000 Hz. 8 ohm output. Complete with remote control mike, mike stand and pouch, AC power card, earphone, shoulder strap carrying case, telephone pickup, DC adaptor, "Scotch" high energy C-60 cassette, batteries and patch card. Recorder size: 10-3/8" x 5 1/2" x 2 3/4". Shpg. wt. 7 lbs.

No. 31A2650. Model 4150K Kit. Each \$69.95



Wollensak MODEL 4155K

AC/DC CASSETTE RECORDER KIT WITH BUILT-IN MIKE

**COMPLETE
KIT** **\$74⁹⁵**

Latest solid state design with super-sensitive condenser microphone. Plays stereo cassettes in mono, plays and records mono cassettes. Keyboard controls for one-hand operation. Automatic record level circuit eliminates guessing. Other convenience features include pause control, sliding tone and volume controls, cassette eject key, record indicator light and complete auto shut-off at end of tape. Runs on 6 "C" batteries, 12 volt car/boat adaptor or 110VAC 60 Hz. Complete with earphone, mike, mike stand and pouch, telephone pickup, input cable, "Scotch" high energy C-60 cassette, batteries and DC adaptor. Size: 10-5/8" x 10 1/4" x 2-7/8". Shpg. wt. 8 lbs.

No. 31A2647. Model 4155K. Kit Each \$74.95

Wollensak MODEL 401K

CASSETTE RECORDER KIT WITH BUILT-IN CONDENSER MICROPHONE

**COMPLETE
KIT**

\$99⁹⁵

- Really tiny pocket—Size: 1 5/8" x 6 5/8" x 3 3/4"
- Complete Kit—Nothing Extra Needed.
- Review-back-space control.
- Built-in Electret Microphone.

The ideal cassette recorder for people on the go at home, office or school. A complete unit with all available accessories included, truly enabling you to record and play back from practically any source. The unique design allows you to operate from the palm of your hand, anywhere, any place, any time. Features automatic level control, illuminated end-of-tape indicator, AC/battery/car power source, built-in recharge circuit, battery meter and dust-free cassette compartment. Frequency response 100-8,000 Hz. Complete with carrying case, telephone pickup, AC adapter, 12 V. car/boat adapter, earphone, 4 "AA" batteries, remote mike, Scotch C-60 High Energy Cassette and radio/phone audio connection cable. Size: 1 3/4" X 6 3/4" X 4". Net wt. recorder only 1.6 lbs. Shpg. wt. 6 lbs.

No. 31A2649. Model 401K. Each \$99.95



Wollensak

MODEL 4350

PROFESSIONAL PORTABLE CASSETTE RECORDER

\$99⁹⁵

Specifically designed for desk top use yet portable enough to take anywhere. Great for business or school. Has keyboard controls for one-band operation. Use sensitive built-in condenser microphone or remote control mic. Get trouble-free recordings with auto-record-level or set desired level. Calibrated level meter also gives battery strength reading. Also features pause switch and switchable tape monitor function, volume and tone controls. 3-digit tape counter with

reset and convenient cassette eject button. Completely returns to stop position at end of tape. Uses four "D" batteries or 110-117VAC. Freq. response 80-10,000 Hz. Size: 13" x 8-7/8" x 3". Complete with AC cord, earphone, remote microphone and mic. stand. Shpg. wt. 9 lbs.

No. 31A7587. Model 4350. Each \$99.95

BELLE & HOWELL

MODEL 2397

CASSETTE RECORDER WITH AM/FM RADIO

\$89⁹⁵

- Redi-Mic with coiled Cord in Handy Compartment.
- Automatic Record Level.
- Handy Carrying Handle.

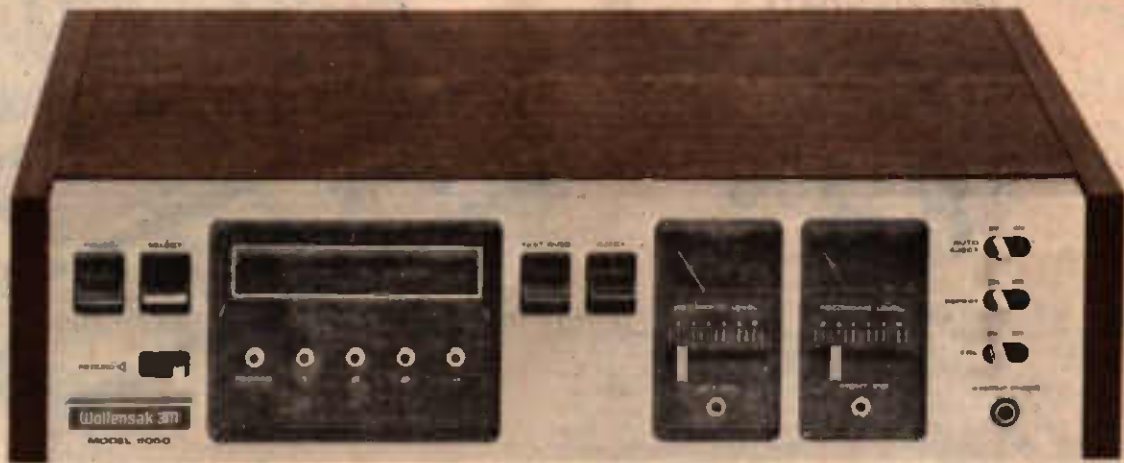
Now you can enjoy the convenience of cassette music, make your own recordings and listen to AM/FM radio. All in one completely portable and economical unit. Handy pop-up cassette loading lets you play or record cassettes instantly. The built-in ready microphone and automatic record level control make it all so convenient. This radio/recorder has separate volume, tone and tuning controls with 3 1/2" dynamic speaker for music the way you like it. Record directly from radio. Works on batteries or AC. Frequency response 60-8,000 Hz. Aux in, ext. power and earphone jacks provided. Complete with 4 "D" batteries, C-30 cassette, built-in Redi-Mic microphone, earphone and AC cord. Size: 9" H. x 12" W. x 3 1/2" D. Shpg. wt. 11 lbs.

No. 31A2619. Model 2397. Each \$89.95



Wollensak 3M COMPANY

MODEL 8050A 8 TRACK RECORDER PLAYBACK PREAMP DECK



- FAST FORWARD MODE.
- PROFESSIONAL STYLING.
- AUTOMATIC RECORD LEVEL FUNCTION.
- AUTO/MANUAL CARTRIDGE EJECT.

\$159⁹⁵

The Wollensak 8050A adds eight-track cartridge record and play to your stereo component system or console . . . the ideal way to record your own eight track stereo cartridges with superb fidelity for both car and home. Professional styling is set off by recessed panels and clean lines. Two large backlit VU meters and slide lever recording level controls enhance the appearance of this unit as well as its performance. 5 panel lights indicate record mode and programs 1-4. Also has pause control for noiseless cueing; manual program selec-

tor; cartridge eject button; record lever and switches for power. Automatic record level (ALR). Can be set to play one program or four and eject automatically. Specifications: frequency response 30-15,000 Hz; S/N ratio 52db, wow and flutter 0.25%; AC bias, AC erase; microphone and phono inputs, line outputs. Complete with four patch cords and one blank Scotch 8-track cartridge. Size: 17-3/8" x 5" x 10 1/2". Shpg. wt. 20 lbs. No. 31A5077. Model 8050A. Each \$159.95

BELL & HOWELL STEREO 8 TRACK PLAYER DECK MODEL 3150TPD



\$49⁹⁵

PLAYS THROUGH STEREO
RECEIVER OR MUSIC SYSTEM

Add the pleasure and convenience of 8 track stereo play to any stereo system . . . and at minimum cost. Plugs into amplifier input and plays through your stereo receiver or music system. Lighted channel indicators show the channel now playing on the attractive black-out lighted face with bright trim. Specifications: Output .45 volts RMS, channel separation 40db, wow/flutter 0.25%, signal to noise 35db min., THD 3% max. For 120VAC, 60 Hz. Luxurious all wood cabinet with planked cherry graining and satin chrome front panel. Complete with 3 ft. output cables with RCA plugs. Size: 4 1/4" x 6-7/8" x 8-5/8". Shpg. wt. 4 lbs. No. 31A7588. Model 3150 TPD. Each . . . \$49.95

Wollensak 3M COMPANY MODEL 1500SS

KEYBOARD CONTROL TAPE RECORDER

\$194⁹⁵



RECORDS 4 HOURS ON 7 INCH REEL

A marvel of compactness using miniaturized components and all-metal airplane construction. A superior monaural tape recorder. Provides up to 4 hours recording time on 7" reel using long play tape. 10 watts push-pull output is four times greater than ordinary recorders. Features keyboard control. Dual speed, operates at 3 3/4 ips and 7 1/2 ips; level recording meter, precision index counter. Specifications: Frequency response: 40-15,000 Hz. ± 3 db @ 7 1/2 ips; 40-8,000 Hz. ± 3 db @ 3 3/4 ips. Both speeds, signal to noise ratio 48 db. Wow and flutter less than .3%. Operates from 110-125 V. 60 Hz. AC. Size 6 1/2 x 10 1/4 x 11 3/4". Complete with dynamic microphone, 2 reels (one with tape). No. 31D232. Shpg. wt. 23 lbs. Net Each \$194.95

QUANTITY USERS: Schools, Churches, Institutions . . .
Write for special quote on any Wollensak Recorder in lots of 12 or more.

WOLLENSAK FINE ACCESSORIES

- No. 31A5018. TF404 Foot Control. Starts and stops tape with manual operation. 1500 Series. Wt. 1 lb. Each \$17.50
- No. 31A54. A-0458 Earphone with pin plug. Wt. 8 oz. Each \$10.50
- No. 31A55. A-0455 Microphone Extension Cord. 15 ft. Wt. 12 oz. Each \$7.50
- No. 31A5009. A-0454 Dynamic Mike. Wt. 12 oz. Each \$13.50
- No. 31A5025. TSC405 Carrying Case for 1500 series. Wt 1 lb. Each \$7.50

Panasonic MODEL RS261US

"THE GLENDALE"

COMPACT STEREO
CASSETTE DECK

\$ 88⁸⁸



This stereo cassette deck features push-button function controls, auto-stop safety for both the cassette and recorder deck, super efficient AC bias and erase circuits. Separate roll-bar volume controls on the two stereo channels with two VU recording level meters. Has cassette pop-up safety lock record button, fast forward and rewind speeds. Pause control. All solid state for complete dependability. Has jacks for 2 microphones and 2 aux. inputs, 2 line output jacks and one front mounted stereo-phone jack. Frequency response 40-12,000 Hz. Case is midnight black with silver trim and panel. Complete with 2 connection cords. For 120VAC, 60 Hz. Size: 3 1/4" H x 12 1/4" W x 10 1/2" O. Shpg. wt. 10 lbs. No. 31A7584.

Model RS261US. Each \$88.88

Panasonic MODEL RS-272US

"THE HARTSDALE"

STEREO CASSETTE
DECK WITH
AUTOMATIC REVERSE

\$ 159⁹⁵



The Hartsdale combines the convenience of push-button control with all the features of complete 2 track stereo recording plus automatic reverse feature that plays back both sides of the cassette without the need for manual flip over when side 1 has been played. Recording is conventional one way. Has auto-stop, AC bias and erase, separate record and playback volume controls, 2 record level meters and digital tape counter for exact cueing. Also has pause control, headphone monitor and noise suppressor switch. Separate forward and reverse playback buttons. Frequency response 30-12,000 Hz. Has 2 mike and 2 aux. input jacks, 2 line and 1 headphone output jacks. Panel is handsome black and silver, cabinet is walnut wood. Supplied with 2 connection cords. Size: 4-3/8" H x 16-5/8" W x 10 1/2" O. Shpg. wt. 13 lbs. No. 31A7577.

Model RS-272US. Each \$159.95

Wollensak MODEL 4780 HIGH PERFORMANCE STEREO CASSETTE DECK WITH

DOLBY SYSTEM *

\$ 259⁹⁵



The Wollensak 4780 with bold new console styling boosts plenty of advanced features. Dolby system dramatically reduces tape hiss for noise-free recording and reproduction even at the low (1-7/8 ips) tape speed of cassettes. Use standard cassettes or take advantage of new chromium oxide tapes with special equalization feature. High torque AC motor gives smoothest tape speed. Cassette guardian prevents tape jamming if defective cassette is played. End of tape shut-off puts machine in "stop" position at end of tape. Large, precision VU meters are db calibrated. Output level variable in playback mode. Memory rewind returns tape to pre-set location. Dust lid keeps dust from cassette compartment. Front jacks for headphones and 2 low impedance microphones. Keyboard operation with sliding controls. Complete with walnut base, 2 pairs of audio cables and operators manual. Freq. resp. 30-14,000 Hz ± 3db (hi output tape). Bias Freq. 110KHz. Wow and flutter 0.18% 120VAC 60 Hz. Size: 17-3/8" x 4-7/8" x 10 1/2". Shpg. wt. 17 lbs. No. 31A7585. Model 4780. Each \$259.95

*A trademark of Dolby Laboratories, Inc."

LOWEST PRICE EVER ON DOLBY CASSETTE!

Panasonic MODEL RS-263US

**CASSETTE RECORDING DECK
FEATURING THE DOLBY SYSTEM**



\$179⁹⁵

A truly fine high fidelity stereo cassette recorder deck PLUS . . . the Dolby noise reduction system, used in most professional recording studios to eliminate tape noise in commercial recordings. The Dolby system knocks out the hiss and results in recordings that are startlingly "real" and free of tape noise. The soft treble sounds are boosted before they are recorded, and when played back the boosted frequencies are reduced back to their proper level. The hiss is reduced with the treble sounds with the result being cassettes that hiss no more. To insure that no distortion will be introduced when conventionally recorded cassettes are played the Dolby switch is turned to "out". Easy operation comes with pushing the cassette into the slot to load, then simply push the eject button to remove the cassette. The RS-263US takes full advantage of the newer recording tapes, adjusting bias for optimum level for these improved tapes. Has memory rewind. You press the memory button at the point you want to start playback and continue with the recording, then push the rewind button and the machine returns the tape to the exact point where the memory button was pressed. No more searching for the exact point where the recording begins. Other features are automatic stop at the end of the cassette, lockable pause button, two VU meters, record indicator light and convenient slide volume controls. Headphone jack is on the front panel. Inputs are for 2 mikes, 2 aux, with

outputs for 2 lines and headphones. Freq. response is 30 to 14,000 Hz, using chromium dioxide tape, with signal to noise ratio better than 55db in Dolby operation. For 120VAC, 50/60 Hz. Size: 5" H x 14" W x 9-5/8" D. Shpg. wt. 12 lbs. Complete with 2 connection cords. No. 31A7597. Model RS-263US. Each **\$179.95**

Panasonic's
"SUPER STRENGTH"
HOT PRESSED FERRITE HEADS

- 15 ips. broadcast standard speed and 7½-3¾ ips.
- 4-Track Stereo Mono reel-to-reel.
- 25% broader frequency range.
- Ten times longer tape head life.

\$329⁹⁵

Panasonic's creative people unveil this superb recorder with honest and genuine pride! Hot pressed ferrite heads are five times harder, last ten times longer, permit wider frequency response, retain performance characteristics longer, and exhibit better recording characteristics than conventional permalloy recording heads. With 15 ips "air-time" speed, attractive walnut case, functional panel studded with professional and convenience features . . . the RC-736US is a break-through in recorder engineering.

Count the features! Pause control, 3 speeds selector switch for normal or "noise-free" tape, ultra-high 200 KHz bias for low noise, separate record and playback amplifier for true echo, two large VU meters, three separate mixer controls for voice over and music under effects, cueing control, separate monitor each channel, sound-on-sound, sound-with-sound, four-pole hysteresis synchronous motor, 140 second fast forward and rewind. Frequency response 20-15,000 Hz at 3¾ ips, 20-32,000 Hz. at 15 ips, signal-to-noise ratio 53 db, distortion less than 1.6%, 10 inputs, stereo line, dubbing, and headphone outputs.

120 V. AC, 16½ x 18½ x 7¾". With dust cover, accessories, less microphone. Shpg. wt. 40 lbs.

No. 31A5049. Model RS736US. Net Each **\$329.95**

**PROFESSIONAL TAPE DECK
BREAK-THROUGH!**



Panasonic MODEL RS-740US

**QUADRASONIC
STEREO TAPE DECK
\$449⁹⁵**

- 2 Hot Pressed Ferrite Record/Playback Heads
- Third Ferrite Erase Head
- Record and play 4 channel or 2 channel Stereo
- 4-Mike Inputs for live Quad Recording

Here is the most versatile Quadrasonic deck so far. Records 4 channel tapes from either microphones or auxiliary sources, or plays 4 channel pre-recorded tapes, as well as recording and playing conventional stereo tapes. There are separate record level controls for each of the 4 channels, separate playback controls, separation controls balance front and rear speakers on each side.

Broader frequency range and 10 times longer head life characterize the HPF record/playback heads. Monitor from the tape or source with the separate heads. Easy tape threading system and automatic shutoff make for easy use, tape selector switch provides the correct bias for either conventional or premium tapes. Rear panel has 4 line inputs, 4 line outputs, and 4 scope outputs. Front panel has 4 mike inputs and separate headphone jacks for front and rear channels.

Has 160KHz bias for low noise, 4 pole induction center float motor, 4 digit tape counter, auto shut-off, tape pause, 4 VU meters, rewinds 1200 ft. of tape in 175 seconds. Freq. response 40-15,000 Hz. at 3¾ and 30-23,000Hz at 7½ ips. Wow and flutter less than 0.10% WRMS 7½ ips, S/N better than 50db. 120VAC 60 Hz. Walnut wood cabinet is 15¾" H x 16¾" W x 8-3/8" D. With empty reel, 4 connection cards, 2 reel holders, splicing tape and head cleaning ribbon. Shpg. wt. 31 lbs.

No. 31A5084. RS-740US. Each **\$449.95**



FAMOUS **TEAC** TAPE DECKS

- 3 heads, 3 motors, 4 amplifiers.
- Sound-with-sound, stereo echo, built-in mixer.
- Automatic Stop.



\$329⁵⁰



- Automatic Stop (A-1230); Automatic Reverse (A-1250).
- Adjustable Turntable Height.
- Low-Wear Hyperbolic Heads.

\$359⁵⁰

- Uses 10½ inch reels as well as 7", 5", etc.
- Expanded Wide Excursion VU meters.
- Rigid Diecast Frame for negligible wow and flutter.
- 3 motors, 3 hyperbolic heads.



\$499⁵⁰

TEAC

NEW AN-60

COMPACT DOLBY NOISE REDUCTION UNIT

\$89⁵⁰



- Use with any Cassette or Reel deck.
- Has VU Meter for right or left Record Level.
- Front-Mounted Calibrating Controls.
- MPX Filter Eliminates FM carrier noise.

This professional-looking Noise Reduction Unit has been designed for rapid calibration to match it to any cassette or reel-to-reel record/playback deck. Recording level for either channel can be metered right at the AN-60 with "Dolby level" VU meter and separate, front-mounted record level controls. Individual left and right channel switches for record/play mode, plus "dolby" (in/out) and "meter" (left/right). Reduces noise as evidenced by signal to noise ratio increase of 6-10 db. Doubles economy of reel-to-reel recording by permitting reduced-speed recording with no degradation of sound quality. Comes in professional black low-profile metal case with convenience outlet on back. Specifications: (Same as AN-50 above). Complete with "Dolby Level" standard cassette and reel tapes. Size 3½" H. X 6-3/8" W. X 10-5/8" D Shpg. wt. 6 lbs.

No. 31A7592. Model AN-60. Each

\$89.50

TEAC

A-1200U OPEN REEL STEREO TAPE DECK

The TEAC A-1200U combines three quality motors and three precision heads to provide outstanding performance from a professional-quality sound source. Its highlighting feature is an all push-button solenoid-operated system requiring only the slightest touch to command any function. 3-head configuration permits monitoring the tape itself, not just the input. 3 motors give smooth and stable performance: 1 hysteresis synchronous motor for capstan drive; 2 eddy current outer rotor motors for reel drive. Versatile recorder will provide sound-with-sound and stereo echo effects. LINE and MIC inputs are independent to allow mixing signals from different sources. 4-digit counter and large dual VU meter make operation easy. Walnut finish blends with any decor. Specifications: tape speed 7½ and 3¾ ips (±0.5%); frequency response—7½ ips, 30 to 20,000 Hz (±3 db, 50 to 15,000 Hz) —3¾ ips, 30 to 15,000 Hz (±3 db, 50 to 10,000 Hz); S/N ratio 50 db; wow and flutter—3¾ ips 0.15%/7½ ips 0.12%; crosstalk 50 db channel to channel at 1,000 Hz/40 db between adjacent tracks at 100 Hz; inputs-mic 10K ohms, 1mV (min.)/line 100K ohms, 0.1V (min.); output—10K ohms (min. load imped.), 1V, 117VAC 50/60 Hz. Size: 9¾" x 15½" x 17" W. Shpg. wt. 50 lbs.

No. 31A5058. Model A-1200U. Each

\$329.50

No. 31A5076. Dust Cover, Model TZ-101. Each

\$23.00

No. 31A5075. Remote Pause Control, RC-101. Each

\$20.00

TEAC

A-1230/A-1250 STEREO DECK

Now take full advantage of new low noise, high-output tape with bias control features which reset recording bias. Built-in MIC-LINE mixer permits blending of various input sources, increasing the versatility of this machine. Dual capstan drive joins with synchronous capstan motor and separate turntable motors for smoothest tape excursion. Tape reel turntables are easily adjustable to eliminate rubbing of tape due to warped reels. All functions are solenoid operated resulting in positive braking action and fingertip-ease operation. Also has 4-digit tape counter; from-the-tape monitoring; high frequency bias oscillator and easy-to-read dual VU meter. Specifications: tape speed 7½, 3¾ ips; wow and flutter (7½ ips) .08%, (3¾ ips) .1%; frequency response—7½ ips 30-22,000 Hz (±3 db 40 to 18,000 Hz) —3¾ ips 30-16,000 Hz (±3 db 40 to 12,000 Hz); S/N 55 db; Harmonic Distortion 1% at 1000 Hz (norm. level); crosstalk 0 db; stereo separation 50 db. Size: 8" x 15½" x 17¾" W. Shpg. wt. 45 lbs.

No. 31A5061.

\$359.50

Model A-1230. Each

TEAC Model A-1250 is identical to A-1230 but with Automatic Reverse feature in playback mode. Reverses by means of sensing foil for one-time or repeated reversing. Utilizing a three-head system with 2 playback heads and a unique new Erase/Record head.

\$459.50

No. 31A5062. Model A-1250. Each

Heavy "smoked" plexiglass dust cover (fits both). Shpg. wt. 8 lbs.

No. 31A5074. Model TZ-250. Each

\$22.00

TEAC

3300 NEW SEMI-PRO TAPE DECK

Just what you've been waiting for! By using 10½ inch reels it is possible to record 120 popular songs on a single reel without using ½ mil tape. Far and away the most important factor in long-program recording. Take advantage of high-output tapes too by switching the Bias Level Selector to "High". Then monitor directly from tape because this recorder has separate record and monitor amplifiers as well as the 3-head system. Functions are all solenoid operated and push-button controls are symmetrically arranged for one-hand operation. No more fumbling with reels... quick lock devices hold reels firmly with a flick-of-the-finger. Has automatic shut-off and 4-digit counter. Walnut wood cabinet. Specifications: tape speed 7½ ips and 3¾ ips (±0.5%); Wow and flutter 0.06% (at 7½ ips) and 0.09% (at 3¾ ips); Frequency Response 25-24,000 Hz (±3 db, 30-20,000 Hz) at 7½ ips, 25-16,000 Hz (±3 db, 30-13,000 Hz) at 3¾ ips; S/N 58 db; Harmonic Distortion 1% at 1,000 Hz (norm. level); crosstalk 60 db at 1,000 Hz; stereo separation 50 db at 1KHz, 117VAC 60 Hz. Complete with empty reel, reel holder, input/output connection card, fuse, AC cord, rubber feet and instructions. Size: 9¼" x 15¾" x 15¾" W. Shpg. wt. 47 lbs.

No. 31A5073.

\$499.50

Model 3300. Each

No. 31A5074. Heavy Smoked Cover, Model TZ-250. Each

\$22.00

TEAC

MODEL 250

NEW STEREO CASSETTE DECK WITH DOLBY SYSTEM

\$249⁵⁰



- Built in Dolby Noise Reduction System
- High Density Ferrite Heads - Lifetime guarantee
- Bias Switch - for low noise or chrome oxide tape
- Expanded Scale VU Meters

Open-reel performance is yours with amazing ease of operation. Wide frequency response, low distortion and expanded dynamic range combined to produce recordings of breathtaking clarity. Internal circuitry is so stable that calibration is not required. Dolby noise reduction system reduces tape hiss by as much as 10 dB in the higher frequency. Mike and line facilities for internal mixing. Built-in headphone jack for source monitoring during recording. Hysteresis synchronous outer rotor motor for smooth stable tape movement unaffected by line voltage variations and free of wow and flutter. Strobe tape-run indicator lamp continuously indicates tape motion and direction. 3-digit pushbutton reset index counter. Frequency resp. 30-13,000, 30-16,000 (chromium dioxide). S/N 58 dB with Dolby. Wow and flutter 0.13%. 117 VAC 60 Hz. Size 4-3/8" H x 17" W x 9-7/8" D. Shpg. wt. 14 lbs.

No. 31A7591. Model 250. Each

\$249.50

\$40 SAVINGS

ON FAMOUS **RCA** CAR STEREO CASSETTE PLAYER WITH RECORD FEATURE!



REG. \$109.95

NOW ONLY **\$69⁹⁵**

- AUTOMATIC SHUT-OFF & EJECT
- HANDSOME CHROME TRIMMED METAL CASE
- RECORDS ON THE GO!

Lowest price ever on RCA cassette car stereo. Perfect for music on the go... In car, boat or travel-home. Plays all stereo cassettes, ejects cassette automatically at end of tape, eliminates wear on drive mechanism. Special safety feature includes an immediate eject for any defective cassette before it can cause any problems to the unit itself.

More than just a playback unit... this machine records monaurally, right in the car with its own remote control dynamic mike. Great for the student, businessman or anyone who needs to dictate on the go. Powerful audio output drives any speakers with full range

(50-10,000 Hz) sound. Controls include volume, tone and balance with fast forward and rewind and special record interlock button to prevent accidental erasures. "Record" indicator light, 3-8 ohm speaker output, 12 V, negative only. Size: 2 1/4" H. X 8 3/4" W. X 7 7/8" D. Shpg. wt. 9 lbs.

Comes with microphone, instructions and special theft deterrent mounting hardware.

No. 38A2095, Model 12R200, Less Speakers Each **\$69.95**



Panasonic

MODEL RS-248

FLOORMOUNTED AUTO STEREO CASSETTE PLAYER WITH AUTOMATIC REVERSE

\$109⁹⁹

- Auto/Manual Reverse
- Lock-Track Console Floor Mount
- Fast Forward and Rewind

Panasonic adds a new dimension to cassette enjoyment, with a luxury car console and a beautiful way to protect your cassettes and keep your music at hand. Features auto reverse, plays side 2 of your cassette as soon as side 1 is finished. Manual reverse permits direction change at any desired point on tape. Other easy to use controls include tape eject, tone, balance, and volume. Also has fast forward and rewind. Security is another big extra because the RS-248 console locks onto a track that bolts to the hump of your car. To remove it, just unlock the unit and slide it out. Has provision for a padlock and socket type connections for easy installation and removal. Frequency range 40-10,000 Hz. 12 VDC neg. ground only. Size: 4-3/8" H x 6 1/2" W x 11 1/2" D. Shpg. wt. 10 lbs.

No. 38A20871

Model RS-248 (Less speakers). Each **\$109.99**



MODEL AC-5
COMPACT CASSETTE
AUTO STEREO
PLAYER

\$139⁵⁰

- Precision All-Solenoid Operation
- Automatic or Manual Reverse
- Wide Range Response with 8 watts (rms) Solid Power

Handsome unit has plenty of features for the serious minded cassette listener. Foremost... TEAC quality with advanced technology in head and motor design incorporated with the newest techniques in tape handling systems. For example, all solenoid operated functions make life easier while assuring precision movement of internal parts. Continuous auto reverse permits replay of both sides of cassette or reverseable at any time manually. Tape travel indica-



tors tell what direction tape is going. Super-power amplifiers make the AC-5 a real performer with 4 watts (rms) per channel, amazing power for a 12 volt system. Also features continuous tone control to suit your personal taste. Frequency response 40-10,000 Hz. 12 VDC. Neg. only. Size: 4 1/4" H x 7-3/8" W x 6 3/4" D. Shpg. wt. 10 lbs.

No. 38A2099, Model AC-5, Less Speakers, Each **\$139.50**



MODEL S-705A

NEW! COMPACT AUTOMATIC 8 TRACK STEREO TAPE PLAYER

COMPARE AT \$59.95

- Small Size-Big Power, 5 Watts (rms) Continuous.
- Auto/Manual Program Selection.
- Swing-Away Dust Door.

Fill your car or boat with the solid sounds of top quality 8-track car stereo. Precision engineered for fast easy installation. Features separate volume controls for left and right channels for easy balancing of speakers. New thumb wheel type knobs for both volume and tone controls. Push button program selector permits manual choice of tracks or switches automatically for continuous play of entire tape. Power light tells when tape is running. Dust door keeps internal mechanisms clean. Big power output is 2.5 watts (rms-not "peak" or "IHF" power), per channel. 12 VDC neg. only. 2.2 Amps. (max.) Freq. resp. 70 to 8,000 Hz. Size: 2 1/2" H x 5 3/4" W x 7 1/8" D.

No. 38A3001. Model S-705A (Less speakers) Each \$39.95



B-A's LOW PRICE \$39.95



Panasonic

MODEL CX-325 SUPER COMPACT 8 TRACK CAR STEREO

PANASONIC'S MOST POPULAR 8 TRACK PLAYER!

\$49.99 LESS SPEAKERS

- Illuminated Digital Program Indicator
- Low Distortion Two-Stage Preampifiers
- Small Size, Small Price, Big Sound

Panasonic CX-325 compact cartridge tape player offers economy and superior quality. Small enough to fit in the glove compartment or hide away under any dashboard yet attractively designed to complement your car interior. Has big-unit features like two-stage preamps and Panasonic's vertical head-movement system that provides the mechanical and electronic precision necessary for truly hi-fidelity stereo performance. Infinitely variable sliding volume and tone con-

trols to suit your taste. Changes tracks automatically and has push-button switch for manual selection. Illuminated program indicator. Swing-away dust-door keeps internal mechanisms clean. Frequency range 70-10,000 Hz. Impedance 4-8 ohms, 12 VDC Neg. ground only. Size: 2 1/4" H x 5-3/8" W x 6-3/8" D. Shpg. wt. 7 lbs. No. 38A3000. Model CX-325. (Less speakers) Each \$49.99



DELUXE 8-TRACK STEREO TAPE PLAYER

- Fast Forward & Repeat Controls
- Anti-Theft Alarm
- Automatic Head Cleaner

\$59.95



MODEL S-1000

Now get full fidelity stereo in a top quality 8-track tape player. Produces rich concert hall realism and powerful bass response. Exclusive fast forward and repeat controls let you hear your favorite selections as often as you like without waiting for the entire cartridge to play. Has decorative and functional color coded channel indicator lights. Crosstalk between tracks can be eliminated with fine tuning lever. Volume, tone, and balance controls all have new mod-

ern slide dials. Other features include automatic or manual program selection, slip-away dust door and anti-theft alarm. Automatic head cleaner removes dirt from heads each time a cartridge is inserted. Power output 3.2 watts (rms) per channel. Freq. resp. 45-10,000 Hz. 12 VDC neg. only, (2.1 Amps. Max.) Size: 2" H x 5-7/8" W x 7-3/8" D. Shpg. wt. 7 lbs. No. 38A3002. Model S-1000 (Less Speakers). Each \$59.95

GREAT BUYS ON AUTO STEREO

Panasonic

MODEL CX-880 8-TRACK
CAR & HOME STEREO PLAYER

MODEL CJ-88H
LOCK-IN
CAR BRACKET

- Scope-Screen Program Indicator
- Red/Green Speaker Balance Indicator
- Retractable Carrying Strap

\$109⁹⁹

Panasonic's great new CX-880 is a superbly engineered stereo tape player. Special repeat button lets you replay selection you've just heard. Slide controls for volume, tone and balance PLUS a red and green balance indicator that makes exact speaker balance easy. Compact, lightweight, specially designed for portability, the CX-880 is equipped with a carrying strap that rewinds into the chassis when pressure is released. Slides conveniently into mounting bracket (included). Freq. range 70-10,000 Hz. Imped. 4-8 ohms. Size: 3" H. X 8 1/2" W. X 7 1/2" D. Shpg. wt. 8 lbs.

No. 38A2085. Model CX-880. (Less speakers). Each **\$109.99**

Extra Mounting Bracket for above. Tough metal construction and key operated lock for top security. Enables you to transfer player to second car, camper or boat.

No. 38A3004. Model CJ-88H. Each **\$24.99**



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INLAND MODEL AFX-802 AUTOMATIC 8-TRACK
AM/FM CAR STEREO

- Total In-Car Entertainment including AM Radio
- Fine Tuning Aligns Heads to ANY 8-Track Tape
- Stereoa FM with AFC

\$119⁹⁵



Most complete car stereo unit we've seen! Has fully-automatic 8-track stereo tape system for uninterrupted listening. Has automatic or manual selection of program with program indicators. Also features automatic head cleaner and fine tuner for head alignment. Just the flick of a switch gives your AM or FM radio. Multiplex FM gives wide-separation stereo FM while AFC locks-in stations, prevents drift. Illuminated AM/FM dial scale. Thumb-wheel controls for tuning, balance, volume and fine tuner. Separate L&R volume controls. Switches for program select, tape/radio, low/high tone and program select. Freq. resp. 70-10,000 Hz. 3.5 watts (rms) per channel, imped. 4 ohms, 12 VDC neg. ground only. Size: 2 1/2" H x 6 3/4" W x 7-3/8" D. Shpg. wt. 10 lbs.

No. 38A3003. Model AFX-802. (less speakers) Each **\$119.95**

Panasonic

MODEL CQ-880 CAR STEREO TAPE PLAYER
WITH FM MULTIPLEX

\$139⁹⁹

Has a host of features. Highly sensitive FM multiplex picks up stations with amazing clarity. Has distant/local switch to help prevent over-driving by high-power stations. Handy thumb-wheel tuning dial permits pinpoint tuning of stations. Stereo light tells when stereo FM signal is broadcast. Has sharp-looking circular FM dial and program indicator light on a unique scopescreen. Slide-lever volume, tone and balance controls. Power eject button, FM tape button. Also features dust door and retractable carry strap. Never any fuss with mounting or wires when used with slide-in lock mount (included). Freq. range: 50-10,000 Hz. Imped. 4-8 ohms. Size: 3" H. X 8 1/2" W. X 7 1/2" D. Shpg. wt. 8 lbs.

No. 38A2086. Model CQ-880. (Less speakers). Each **\$139.99**

No. 38A3004. Model CJ-88H. Extra Mounting Bracket for above. Tough metal construction and key operated lock for top security. Enables you to transfer player to second car, camper or boat.

Each **\$24.99**



RCA

NOW! 4-CHANNEL SOUND FOR YOUR CAR!!!

4 CHANNEL 8 TRACK TAPE PLAYER

COMPLETE WITH
MOUNTING BRACKET
LOCK AND KEY

\$119⁹⁵

Get in-car sound like you've never heard before! 4 separate tracks of sound through four separate speakers to surround you with music that seems to put you right on stage. Get in on the new 4-channel scene with the RCA Q-8 car tape player. Plays stereo or 4-channel 8-track tapes. Chooses mode automatically and lights stereo/quad indicator. Extra features include: quick-release mounting bracket with lock and key. Separate tone and volume controls for front and rear, plus program button. Slide lever balance control and 4 separate program indicators. Big power output drives any set of (3-8 ohm) car speakers. Frequency range 40-10,000 Hz ± 3 db. 12 V. negative only. Size: 2-5/8" H. x 10 1/2" W. x 7 1/2" D. (in bracket). Shpg. wt. 7 lbs.

No. 38A2096. Model 12R800. Less Speakers. Each **\$119.95**



OUR BEST AUTO RADIO BUY!

FITS ANY CAR, TRUCK OR BOAT!

7 TRANSISTOR AM RADIO

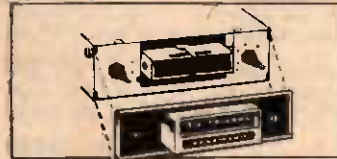
\$19⁹⁵ PRICED WAY BELOW
THE MARKET!



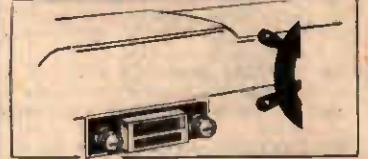
IN YOUR CAR! IN YOUR BOAT! IN YOUR TRUCK!

- 7 tuned circuits for fine sensitivity
- Automatic volume control
- 2.5 watts audio output — heavy duty 4 x 6" ceramic magnet speaker.

Most exciting universal auto radio bargain anywhere! Modern all solid-state circuitry makes possible finest AM performance at a fraction of former car radio prices with no sacrifice in quality, appearance or features that make radio listening a pleasure, such as effective AVC to prevent fading and tuned RF amplification. Mounts neatly and easily under the dash. Front dial trim detaches completely for custom in-dash mount. So small that it just can't



Custom Mounts IN Dash. Has removable chrome and black escutcheon, chrome knobs.



Compact! Also mounts UNDER Dash. Has built-in heavy duty speaker and provision for external speaker.

get in the way—Only 6 $\frac{1}{8}$ " W. x 5" D. x 2" H. Has fine tone from built-in 4x6" speaker and provision for external 8 ohm speaker. Ideal for car, truck and boat installation where a remote speaker is desired. Operates with minimum battery drain from 12 volts negative ground. Shpg. wt. 5 lbs.

No. 38A208. Model X-203. Each **\$19.95**



CONVERTS ANY CAR RADIO TO FM EASILY!

FM CONVERTER

- Plugs right in . . . No special wiring.
- Drift-Free Reception with AFC.
- Use Existing antenna.

\$29⁹⁵

The inexpensive and practical way to complete car sound entertainment with the best of both AM & FM. No need to replace present AM radio with an expensive AM/FM model. Requires only power and antenna connections, easy to install. Thumb wheel knobs for on/off, afc, local/dx and tuning. Black grained leatherette face plate. 12 volt neg. ground.

No. 38A230. Shpg. wt. 6 lbs. **\$29.95**
Model FT-60. Each

UNIVERSAL PUSH-BUTTON AM/FM AUTO RADIO

Mfg. Suggested
List \$69.95

\$49⁹⁵



- 6 or 12 Volt Negative Ground
- Fits in Dash of all VW's
- Removable Front Plate
- Push-Button with AFC

Most versatile radio on the market. Specially designed for 6 or 12 volt operation. Needs no adaptors. Equipped with two face-plates to fit all Volkswagens through '71. Fits right in dashboard of many Amer. made cars. Also great as an under-dash radio. All pushbutton operation for greatest convenience. Super sensitive AM/FM tuners pick-up distant stations with amazing clarity. Rugged solid state construction for instant-on performance, low-power-drainage and cool operation. Complete with wide-range 5" speaker and chrome/leatherette mounting plates.

No. 38A232. Model WAF-609. Each **\$49.95**



BEST SELLER UNIVERSAL-MOUNT AM/FM-MPX PUSH-BUTTON CAR RADIO

- Adjustable Control Shafts-Fits Most Cars
- Integrated Circuitry For Low Noise Reception
- Pushbutton Operation
- Complete with 2 Heavy Duty 5" x 7" Speakers

\$99⁹⁵

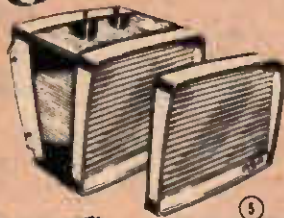
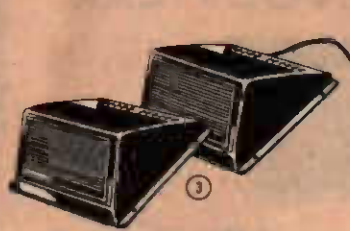
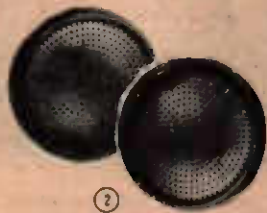
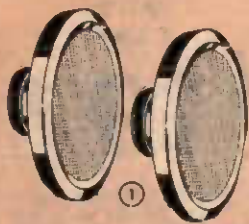
Now is the time to put FM stereo right in your dash. Adjustable control shafts slide in or out to fit pre-stamped dashboard mounts on most cars. Mounting centers are variable from 5-5/32" to 6-7/8" between shafts. All solid-state circuitry and IC's give great sensitivity and low noise performance for strongest reception, even in fringe areas. Has 3 pushbuttons for FM and 2 for AM that you pre-set to desired stations. Also has slide-rule dial manual tuning. Plays AM through one speaker, FM and FM MPX through both. Stereo indicator light for FM. Complete with heavy-duty 5" x 7" speakers and wiring. Shpg. wt. 9 lbs.

No. 38A234. Model RX-14 Each **\$99.95**
No. 38A235. Model RX-UK. Under-Dash Face Plate and mounting Bracket for above unit Each **\$3.95**



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AUTOMOTIVE STEREO SPEAKERS



10



12

TOP QUALITY STEREO SPEAKER KITS FOR AUTO, BOAT, TRAILER OR HOME MUSIC SYSTEMS

DELUXE 5" FLUSH MOUNT MATCHED SPEAKER KIT

Fine appearance, beautiful tone. Best we've seen for the money! Wide freq. resp. for the finest reproduction. Rate 4 watts, 8 watts peak. 3 oz. ferrite magnet, 8 ohm V.C. Moisture resistant. With 2 11-ft. clip-on leads. Shpg. wt. 4 lbs.

(1) 34A402. With Deluxe Chrome Snap-On Grilles. Per Pair **\$9.95**
(2) 38A6009. With Deluxe Black Leather Grain Grilles. Pair **\$12.95**

10 OZ. CLOTH EDGE SUSPENSION 5 1/2" SPEAKERS

Big powerful 10 oz. ceramic magnets. Dynamic power handling capacity of 10 watts each. Giant precision 1" voice coil permits high-volume with low distortion. Whizzer cone issues a full range of high frequency sound. 8 ohms. Shpg. wt. 6 lbs.

(1) 34A492. With Deluxe Chrome Snap-on Grille. Pair **\$17.95**
(2) 34A474. With Black Leather Grain padded Snap-on Grille. Pair **\$19.95**

(2) 20 oz. Cloth Roll Air-Suspension Speaker. With black leather grain padded snap-on grille. 12 oz. waterproof cloth edge speaker. **\$29.95**

No. 34A501. Pair **\$27.95**
(2) 12 Oz. Cloth Edge Suspension - Fully waterproof. Can be fully submerged in water with no damage to voice coil or cone. Delivers full rich, dynamic response. 1" voice coil. With whizzer cone. 8 ohm. 20 watts. Shpg. wt. 7 lbs.

No. 34A504. Deluxe Black Leather Grain Padded Snap-on Grille. Pair **\$27.95**

(3) WEDGE STYLE MATCHED STEREO SPEAKER KIT

Universal Mount. No holes to cut—mounts on the surface. Fits on rear window shelf, under dash, under front seat or side kick plates. Tough resilient plastic enclosures protect speakers and provide exceptional baffling for good bass response. With 5 watt 8 ohm speakers. Size: 7 1/2 x 6-3/8" base. Max. hgt. 3-5/8". Approx. 15 ft. speaker lead. Wt. 3 lbs.

No. 38A6002. Special Pair for **\$6.95**

(4) SURFACE MOUNT DELUXE 5-INCH SPEAKER

Excellent for cars, station wagons, buses, mobile homes, boats! Mounts on kick panel, rear deck, walls, ceiling or any other flat surface. Features extra heavy duty 15 W. RMS 5" weatherproof valumetric speaker with 3 oz. ceramic magnet and 8 ohm voice coil. Black rattle-proof housing with bright metal trim. Overall mtg. size 6" x 7 1/4" x 3-1/8" max. depth. 12 ft. leads. Wt. 3 lbs.

No. 34A431. Pair **\$10.95**

(5) UNIVERSAL SURFACE RECESS OR HANG-ON MOUNT

Chosen for performance, these full range loudspeakers will complement any auto, boat or camper stereo sound system. Engineered by RCA to handle 7 watts of audio power. Special cabinet design couples plenty of rich bass with brilliant upper range fidelity for an overall response of 50-10,000 Hz. Converts from flush to surface mount by simple removal of mid-housing. Impedance 3.2 ohms. Cabinet size: 6 1/4 x 6 1/2 x 4 1/2". Speaker size 5 1/4". Shpg. wt. 12 lbs.

No. 38A2097. RCA Model 12R400. Per Pair **\$13.75**

12 oz. Waterproof Cloth Edge Speaker with universal surface, recess, or hang-on mount. 100% fully waterproof. Can be fully submerged in water with no damage to voice coil or cone. Delivers full, rich dynamic response. 1" voice coil, cloth edge suspension, with whizzer cone. 8 ohms. 20 watts.

No. 34A505. Shpg. wt. 7 lbs. Pair **\$29.95**

(6) 10 OZ. MAGNET SURFACE MOUNT SPEAKERS

"The acoustically perfect wedge". Sound engineered 'tuned' enclosures have precision baffle holes for exciting bass response. 10 oz. magnet and high temperature voice coil add to overall response with power handling capacity of 30 watts. Solid back makes for best enclosure. With wire. 8 ohms. Shpg. wt. 4 lbs.

No. 38A6019. Pair **\$19.95**

(7) DELUXE 6X9 INCH 14 OZ. SPEAKER

14 oz. cloth edge air-suspension speaker. Dual cone. Heavy magnet gives the wide response and power handling wanted for today's automotive stereo. 1" voice coil with metal grille. 8 ohms. Shpg. wt. 2 lbs.

No. 34A473. Each **\$12.95**

DELUXE LEATHER GRAIN SPEAKER GRILLES

Plush padded surface with leather grain vinyl enriches the frequency response. Add elegance to any auto. Shpg. wt. 1 lb.

(8) 5 1/2 Inch Speaker Grilles

No. 38A6020 - Black No. 34A506 - White No. 34A507 - Wood-Grain **\$3.99**

YOUR CHOICE PER PAIR **\$4.95**

(9) No. 34A508 6X9 Inch Speaker Grille. Each **\$4.95**

(10) OVAL SPEAKER GRILLES

Decorative grilles fit standard 5X7" and 6X9" speakers. Shpg. wt. 1 lb.

No. 38A6015. 5X7". Chrome. Each \$1.69 No. 38A6017. 6X9". Chrome. Each \$1.69

No. 38A6016. 5X7". Gray. Each \$1.49 No. 38A6018. 6X9". Gray. Each \$1.49

(11) DELUXE AUTO REAR SEAT SPEAKER KITS

Features new heavy duty 6x9" speakers that flawlessly reproduce the full tonal range—excellent for Hi-Fi FM as well as finest reproduction of AM programs. Designed to mount in shallow space, requires a depth of 2 3/4". Kit includes 1.47 oz. 6x9" speaker, chrome grille, hardware, vari-control for under dash mounting, wiring and simple instructions. 10/20/40 ohm. Shpg. wt. 4 lbs.

No. 38A6004. Kit with Deluxe 6x9" 7-Watt Speaker. Complete **\$7.95**

Kit with Twin-Cone with 5.5 oz. 6x9" 10-Watt Speaker. Especially wide-range reproduction with still more power to handle the high peak audio output of modern auto radios. 10/20/40 ohm.

No. 38A6005. Complete Shpg. wt. 4 lbs. **\$9.95**

(12) SUPER POWERFUL 20 OZ. 6X9" SPEAKER

Dual cone. Extended frequency response 40-16,000 Hz. 25 watt power rating. Resonance 50 Hz. 8 ohm. Weather resistant construction.

No. 34A502. Each **\$16.95**

20 oz. 6x9" Rear Deck Speaker Kit. Contains speaker above, plus custom fit grille, front/rear fader, 15' wire, mtg. hdwe., instructions.

No. 34A503. Each **\$19.95**

4-CHANNEL STEREO ADAPTOR FOR YOUR CAR



\$9.88

- EASY TO INSTALL
- PRE-WIRED COMPLETE
- EASY TO OPERATE

4-channel car stereo adaptor converts and synthesizes any existing 8-track player, cassette tape player or FM multiplex radio. Just add two speakers (see page 49 for extra speakers). No need to modify existing system. Complete with all hardware and instructions. Shpg. wt. 1 lb. Highest quality import of Japan.

No. 38A2094. B-A Special Low Price

\$9.88



\$14.95

LOCK MOUNT MAKES YOUR AUTO STEREO UNIT THEFT-PROOF!

STEREO UNIT SLIDES IN AND OUT OF LOCK-MOUNT EASILY TO STORE IN TRUNK OR TAKE IN YOUR HOUSE

- Positive or negative ground 6 or 12 V.
- Prevents the theft of car stereos.
- Makes unit removable with key. No wires.
- Makes any car stereo portable.
- Takes just minutes to install.
- Adjustable and adapts to any car stereo, radio or CB unit.
- Recommended by insurance companies.

Size: 6 1/2" x 7 1/8" x 1" H.
Wt. 2 lbs.

\$14.95

No. 38A2038. Complete Unit

Male Part Only. To mount in another car, camper, boat, etc. so your stereo player can be instantly changed from one to the other.

No. 38A2039. Each

\$5.47

UNIVERSAL CAR STEREO POWER CONNECTOR

Can be assembled into 4 or 5 prong configurations to mate all car stereo receptacles. Includes fuse and holder. Instructions included. Wt. 1 1/2 oz.

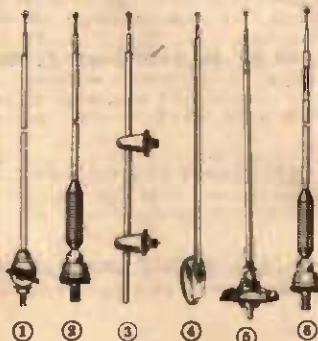


No. 38A8018. Each **\$3.95**

SAVE ON



FINE QUALITY UNIVERSAL AUTO ANTENNAS



Engineered and built for lasting top performance. Triple chrome-plated brass tubing. Completely waterproof, rattle proof construction. Shpg. wt. 1 lb.

Fig.	Stock No.	Description	Mfg. List	Net Each
1	38A48	Ball 23" to 53"	\$4.95	\$2.88
2	38A24	Swivel Spring 23" to 58"	7.95	3.95
3	38A22	Side Cowl 23" to 54"	6.95	3.95
4	38A39	Volkswagen 33" to 52"	6.95	3.95
5	38A236	65-73 Ford exact replacement 23" to 53"	6.95	3.95

⑥ 57" 3-Section "POWER HOUSE" ANTENNA

Far superior to any ordinary antenna. Increases range because antenna is electrically lengthened by the built-in coil. Does not detract from fine appearance. With all-angle swivel base and 48" lead. Shpg. wt. 1 lb.

No. 38A4001. Mfg. List \$10.95. Net Each **\$6.95**

EXTENSION LEADS—FINEST COAX TYPE

No.38A8002.12 Inch Extension. Wt. 4 oz. Each	90c
No.38A8003.24 Inch Extension. Wt. 6 oz. Each	\$1.28
No.38A8004.36 Inch Extension. Wt. 8 oz. Each	\$1.38
No.38A8005.12 Ft. Extension. Wt. 1 lb. Each	\$3.95
No.38A8006.15 Ft. Extension. Wt. 1 1/2 lb. Each	\$4.45



12 VOLT DC POWER SUPPLY

RATED 4 AMP

\$19.95

Double the use of your auto stereo tape player, car radio or CB mobile equipment by using in your home or office. Converts 115 VAC to 12 volts DC. Up to a whopping load of 4 amps. No noticeable hum or voltage dip. Heavy duty binding posts, neon on-off indicator light. Automatic circuit breaker. Shpg. wt. 4 lbs. Size: 3"H. x 4 3/4"W. x 5 1/4"D.

No. 13A8041. Each **\$19.95**

4 Amp Regulated Supply. Delivers 13.8 VDC ±4% other features same as 13A8041 above.

No. 13A8043. Each **\$29.95**

6 Amp Power Supply. Handles loads up to 6 amp @ 12VDC. Other features same as 13A8041 above.

No. 13A8042. Each **\$24.95**

PLAY YOUR STEREO CASSETTES IN YOUR 8-TRACK CARTRIDGE PLAYER

\$34.50

All you do is push the adaptor into the cartridge housing of your car's 8-track player, insert the cassette according to the simple directions and you're ready to go-in a matter of seconds. No wires to connect. No batteries needed. Shpg. wt. 2 lbs.

No. 38A2076. Each **\$34.50**



BELLE HOWELL

CASSETTE RADIO TUNER



\$6.95

Convert any Cassette Player-Recorder into a complete radio. So easy to install, simply insert radio the same as you would a cassette tape. No wires to connect. The new low cost way to make your cassette player a complete entertainment center. Shpg. wt. 8 oz.

No. 31A2639. Special Each **\$6.95**

No. 21A5008. MS41. Battery for above. Each **\$4.75**



SET-SCREW MOUNTED REPLACEMENT ANTENNA MASTS

① Universal Telescoping Mast. No need to remount a complete new installation. Bell shaped collar slips onto stub of broken mast and fastens with set screw. 3 section telescoping 24" to 54". Shpg. wt. 1 lb.

No. 38B44. Mfg. List \$3.45. Each **\$1.95**

② New Elliptical Oval Universal Telescoping Mast. Extra strength, streamlined design, deluxe chrome. Three sections, 23" to 54". Shpg. wt. 1 lb. Mounts with set screw. Shpg. wt. 1 lb.

No. 38A4002. Mfg. List \$3.75. Each **\$2.95**

③ Flax-O-Rod Spring Supported Replacement Mast. Fastens to broken antenna stub with set screw. Length 26". Shpg. wt. 1 lb.

No. 38A125. Mfg. List \$2.95. Each **\$1.89**

④ Heavy Duty Universal Telescoping Mast with Spring. Stainless steel 3 section 23" to 42". Has socket mount. Secured by set screw. Shpg. wt. 2 lbs. No. 38A4003. Mfg. List \$3.95. Each **\$2.95**

Custom Replacement Masts for Ford, GM and Chrysler

(4) 38A4004. Ford: Fits all cars made by Ford 1950-1972. Each **\$2.89**

(4) 38A4005. GM: Chev. 66-72; Pontiac 67-72; Buick (except Riviera) 72; Special Skylark 68-72. Each **\$2.89**

(5) 38A4006. Chrysler (with removable mast): Plymouth 68-72; Dodge 68-72; Chrysler 68-72. Each **\$2.89**



① No. 12A1406. Male Motorola Cable Plug. Each 29c 25 @ Ea. **24c**

② No. 12C170. Female Motorola Cable Plug. Each 29c 25 @ Ea. **24c**

③ No. 12A1404. Female Motorola Chassis Plug. Each 29c 25 @ Ea. **24c**

④ Universal Lead Cable. Has 3 sizes of nuts to mate connector on most any make antenna. Wt. 8 oz. No. 38A124. Each **\$1.89**

⑤ No. 12A6123. Y Adaptor for connecting 2 antenna leads. Each **\$1.49**

RADIOS TO GO WHERE YOU GO!!

Panasonic

IN EXCITING
NEW COLORS!

"TOOT-A-LOOP"

TRANSISTOR AM
PORTABLE RADIO

WEAR IT
ON YOUR
WRIST!



USE IT
AS A
TABLE
RADIO!

\$12⁸⁸

MODEL R-72

Panasonic's newest, wildest, craziest AM portable! Wear it on your wrist like a bracelet — or twist it to sit on table top. Comes in choice of 4 vivid colors complete with letters and decals to personalize any way you please. Delivers big, full sound — opened or closed — from full-range dynamic speaker. Built-in ferrite antenna assures excellent reception. All solid state. Gift boxed with earphone and battery, wt. 1 lbs.

No. 36A6530—White. No. 36A6532—Red. Your Choice \$12.88
No. 36A6531—Blue. No. 36A6533—Yellow. Each

Panasonic

MODEL
R-70

"BOLERO"
AM
PORTABLE
RADIO



\$10⁸⁸

Fun loving spherical style in choice of 5 vibrant colors. Has unique easy grip controls and handy carrying chain. Battery powered . . . goes where you go! Enjoy sensitive AM reception of all your favorite stations. Built-in ferrite core antenna pulls in both local and distant stations. 2 1/4" PM dynamic speaker delivers rich sound in full tonal range. Solid state engineered. Complete with battery and earphone. Wt. 1 lb.

No. 36A504—Red. No. 36A2015—Yellow. \$10.88
No. 36A505—Blue. No. 36A2016—Green.
No. 36A506—White. Your Choice Each

Magnavox

MODEL
1020

"SOUND
CAPSULE"

AM
RADIO



\$12⁹⁵

The shape and sound of tomorrow . . . today! Fantastic to see and great to hear, the Sound Capsule takes off where other portables just begin. Brilliant in sparkling red, white or blue, is only 4 1/4" long and 4 1/4" in diameter. Features room filling sound from your favorite AM station, with direct tuning dial. Has built-in Ferrite Rod antenna and automatic volume control, even has a case for its earphone. High impact plastic case for rugged, take-along listening. Complete with earphone and batteries. Shpg. wt. 1 1/2 lb.

No. 36A2043. Model 1020. Each \$12.95

Magnavox

MODEL
1014

"YO-YO"
PORTABLE
AM
RADIO



\$9⁹⁵

Slip one of these performance packed portables in your pocket or purse and have the world on a string (Really on a chain!) Styled for the young at heart, this bouncy yo-yo radio steals the scene wherever you go. Only 4 1/2" in diameter and 1 1/4" high in its high impact plastic case. Built-in Ferrite Rod antenna and automatic volume control assures top radio reception. Complete with batteries, earphone and carrying chain. Shipping wt. 1 1/2 lb.

No. 36A2044. Model 1014R. Red
No. 36A2045. Model 1014Y. Yellow
Your Choice. Each \$9.95

Panasonic

MODEL
R-1052

"CRANFORD"

AM
PORTABLE
RADIO



\$10⁸⁸

Pocket-size AM-Portable in 6 crazy colors. Battery operation. Built-in ferrite core antenna, 2 1/4" PM dynamic speaker. Easy-see vernier tuning dial. Earphone/external speaker jack. Complete with 9 volt battery, carrying strap, earphone. Shpg. wt. 1 lb.

No. 36A2049—Black. No. 36A2052—Blue.
No. 36A2050—Red. No. 36A2053—Green.
No. 36A2051—White. No. 36A2047—Purple.

Your Choice Each \$10.88

Panasonic

MODEL
R-47

"CENTERPOINT"

AM
PORTABLE
TABLE
RADIO



\$14⁸⁸

Modular design, offset by sculptured detachable pedestal base. Perfect for desk, table . . . or carry anywhere. Battery operated. Built-in ferrite core antenna. 2 1/4" PM dynamic speaker. Earphone/external speaker jack. In bright white with jumbo numerals. Solid-state engineered. Complete with Panasonic 9 volt battery, personal earphone, pedestal, and gift box. Shpg. wt. 2 lbs.

No. 36A2046. Each \$14.88

Panasonic

MODEL
1492



\$16⁸⁸

AC/BATTERY

"ELMHURST" AM PORTABLE RADIO

Handsome AM portable radio with dual face tuning dial. Built-in ferrite core antenna. Ultra sensitive reception. 2 1/4" PM dynamic speaker. Power on-off indicator. Complete with Panasonic 9-volt battery, A.C. Power card, handy carrying strap, earphone and gift box. Wt. 2 lbs.

No. 36A2041—Black Your
No. 36A2042—Red Choice
No. 36A2048—Green Each \$16.88

Panasonic LIGHTWEIGHT PORTABLES

Panasonic SOLID STATE MINIATURE FM/AM PORTABLE RADIO

This luxury miniature AM/FM radio is tastefully designed in your choice of midnight black or antique white, and beautifully accented in silver. The easy to see vernier tuning dial permits instant AM or FM station selection. FM telescopic whip (which swivels out of way when not in use) and AM ferrite core antennas pull in both local and distant FM and AM stations loud and clear through the heavy duty 2 1/4" speaker for rich full bodied sound. Size 4 1/2" x 3 3/8" x 1 3/8". Complete with personal earphone for private listening, carrying strap and 9V battery. Shpg. wt. 1 lb.



No. 36A3524, Model RF511-Black.
No. 36A3525, Model RF511-White.
\$19.88

Your Choice Each.....

Panasonic FM/AM PERSONAL PORTABLE RADIO

- Battery or AC Operation.
- Reliable Integrated Circuits.
- AFC for FM Stability.
- *2-Year Warranty.
- Choice of Colors.

\$32.95



The perfect gift item and you'll want one too. Comes in pearl white or midnight black, (with silver trim). Has built in FM whip and ferrite core antennas. Tone control for music or voice listening. Slide rule tuning, band selector, earphone jack, AC cord, slide down handle. Shpg. Wt. 4 lbs. Size: 6 1/2" H. x 5 3/4" W. x 2 3/8" D. Earphone and 4 "AA" batteries included.

No. 36A3528, Model RF561. Black with Silver.
No. 36A3529, Model RF561. Pearl with Silver.
YOUR CHOICE EACH..... \$32.95

Panasonic AC/BATTERY PORTABLE AM/FM RADIO

- Padded Leatherette Case.
- AC Cord Included.
- Slide Lever Controls.
- Integrated Circuitry.
- *2-Year Warranty.

\$42.88



Beautiful midnight black leatherette case and swing-down handle make this radio a handsome one. Has sliding tone and volume controls and slide rule tone and volume indicators. AFC locks in FM stations. 500 mW amplifier drives 3 1/2 inch PM dynamic speaker. Also has AC cord, on/off switch, and AC/Batt. selector. Earphone and 4 "AA" batteries included. 5 5/8" H. x 8 3/4" W. x 3" D. Shpg. wt. 5 lbs.

No. 36A3523, Model RF930. Each..... **\$42.88**

PRESET WEATHERBAND IS ALWAYS READY TO GIVE INSTANT WEATHER INFORMATION!

Panasonic AC/BATTERY AM/FM/WB PORTABLE RADIO

"THE STANTON"

FULL 2 YEAR WARRANTY*

INTEGRATED CIRCUITRY \$59.95



It's no longer necessary to wait for weather broadcasts. Just flip to the preset weather band and get weather information instantly, 24 hours a day. Solid state engineered with integrated circuitry and sturdy construction, this handsome radio carries a two-year warranty*. Other important features include: slide rule tuning, two-way tone control (bass boost plus continuous treble control), AFC to lock FM stations, lighted dial, drop-down handle, and big 5-inch PM speaker. Complete with 4 "C" Panasonic Hi-Top batteries, AC cord & earphone. Shpg. wt. 7 lbs. Size: 6 1/2" H. x 10 1/4" W. x 3 1/2" D.

No. 36A5036, Model RF951. Each..... **\$59.95**

Panasonic SOLID STATE AM/FM HORIZONTAL DESIGN PORTABLE RADIO

\$22.88



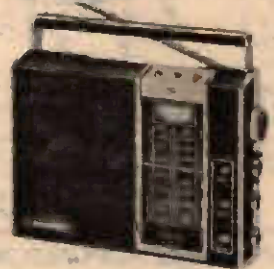
Low-profile AM/FM receiver has vertical slide ruler dial for simple, precise tuning. FM whip and AM ferrite core antennas deliver powerful reception of AM and FM stations. Full range sound projects forward from the 2 1/4 inch permanent magnet dynamic speaker. Simple, yet elegant horizontal design case comes in black or white with silver trim. Jack is provided for optional external power supply. Solid state engineered. Complete with 9-volt battery, earphone and carrying strap in beautiful gift box: 3 3/8" H. x 5 1/2" W. x 1 3/4" D. Shpg. wt. 2 lbs.

No. 36A3526—Black. Model RF541. **CHOICE \$22.88**
No. 36A3527—White. Model RF541. **EACH.....**

Panasonic "THE LANGDALE" MODEL RF-900 DELUXE AC/BATTERY FM/AM PORTABLE RADIO

*** FULL 2 YEAR WARRANTY**

\$49.95



Dependable Integrated Circuitry for full 1 watt power output and 4" PM dynamic speaker assure finest reproduction with ample volume. Built-in FM whip and AM Ferrite core antennas. Tuning meter, slide rule lighted dial. Has AFC on FM. Continuous treble and 2 step bass controls. Volume, treble and band control indicator windows, slide-down carrying handle. AC/battery selector switch, earphone/external speaker and MPX jacks. Midnight black with silver trim. Has 2 year warranty. Complete with 4 Panasonic batteries, earphone, gift box. Size: 6-15/16" H. x 9-1/16" W. x 2-7/8" D. Shpg. wt. 4 1/2 lbs.

No. 36A3540, Model RF-900. Each..... **\$49.95**

Panasonic "THE TRAVELLER" AC/BATTERY MULTI-BAND PORTABLE RADIO

UNIQUE ROTO DIAL BUILT-IN MULTI-BAND ANTENNAS

- AM-FM
- SHORTWAVE
- AIR
- VHF
- MB

2 YEAR* WARRANTY

MODEL RF1600

\$99.95



Listen to the world's broadcasts with Panasonic's Traveller. Six bands VHF-FM 136-174 MHz, Air-AM 108-136 MHz, FM 87-108 MHz, AM 525-1605 KHz, MB 1.6-4.5 MHz, SW 9-18 MHz. Gives a world of listening pleasure on regular house current or batteries. Panasonic slide controls for bass, treble, and volume make operation precise and easy. Fine tuning knob brings in the most distant stations crystal clear. AFC for drift free FM performance. Squelch control filters out static interference for superb sound. Heavy duty 5" PM dynamic speaker for unsurpassed reproduction. Lighted dial for precise tuning in the dark. The space-saving roto-dial makes for complete lightweight portability. Shock-proof integrated circuits make possible a Two-Year Warranty* covering parts and labor. This handsomely styled radio comes complete with 4 "C" batteries, earphone and antenna lead, phono input and earphone jacks provided. Size 8 1/4" x 11 1/2" x 3 3/4". Shpg. wt. 8 lbs.

No. 36A5015, Model RF1600. Each..... **\$99.95**

***WARRANTY INCLUDES TWO YEARS PARTS AND LABOR. ITEM MUST BE SENT POSTAGE PREPAID, WITH WARRANTY CARD, TO ANY AUTHORIZED PANASONIC SERVICE CENTER OR B-A.**

*Applies to Models RF-561, RF-900, RF-930, RF-951, RF-1600, RF-1700.

Panasonic MODEL RF-1700 "THE WESTOVER"

AC/BATTERY MULTI-BAND PORTABLE RADIO

\$129⁹⁵



- 8 FREQUENCY BANDS: • AM/FM • MARINE • HIGH/LOW
2 YEAR WARRANTY • AIRCRAFT • 2 SHORTWAVE PUBLIC SERVICE

Receives weather broadcasts, fire, police as well as other public service communications. Pick up World-wide broadcasts on short wave band plus finest FM/AM reception at home or "on the go". Operates from batteries or 115 VAC. Bands are FM 88-108 MHz, Air 108-136 MHz, PB High 136-176 MHz, PB Low 30-50 MHz, Marine 1.6-4.5 MHz, AM 530-1600 KHz, Short Wave 1 4.5-12 MHz, Sw 2 12-26 MHz. Has push button band selector, integrated circuitry, 1.8 watts power output to a 5" PM dynamic speaker. Ultra-sensitive built-in antennas. Lighted dial and band indicators. Has AFC on FM for drift-free reception. Continuous treble and 2 step bass control. Fine tuning for easy selection of desired station, squelch control eliminates noise between stations. Has power on-off, AC/Battery selector switches earphone/external speaker and MPX output jacks. Leads are provided for external antenna connections. Fold down carrying handle. Midnight black with chrome trim. Complete with 6 Panasonic C batteries, earphone. Size 8-3/16" H. x 10" W. x 3-13/16" D. Shpg. wt. 8 lbs.
No. 36A3541. Model RF-1700. Each \$129.95

*WARRANTY STATED ON PAGE 52.



Magnavox MODEL 1286

THREE BAND PORTABLE RADIO

\$39⁹⁵

- AM BAND
 - FM BAND
 - PUBLIC SERVICE BAND
- Great listening on AM and FM bands and Police, Fire and Mobile Phone communications with instant weather broadcasts on the PSB band. Rugged portability for emergencies as well as for everyday entertainment, news and information. Operates from AC power or from batteries supplied. Has no-drift FM/AFC, slide rule dial with vernier tuning, built-in AM antenna and telescoping FM and PSB antenna. Squelch control silences the speaker between stations on the PSB band which tunes 148 to 174 MHz. High impact plastic case, charcoal color, is 10 1/2" L. x 8 1/2" H. x 3" D., has fold down handle and built-in AC line storage. Supplied complete with batteries and private-listening earphone. Shpg. wt. 6 lbs.
No. 36A5050. Model 1286.
Each \$39.95

"THE GRIFFITH"

\$44⁹⁵



Panasonic FM/AM RADIO

This handsome walnut wood table radio has a full range 4" PM speaker with forward projection for room filling sound. AFC on FM for drift-free reception. Continuous tone control. Illuminated slide rule dial blacks out when radio is off. Solid state construction. Black and silver trim. Size: 5" H. x 14 5/8" W. x 7 5/8" D. Shpg. wt. 7 lbs.
No. 36A6519. Model RE-7441. Each \$44.95

"THE LINDEN"

\$44⁹⁵



Panasonic AM/FM TABLE RADIO

Panasonic combines solid state engineering with exquisite design. Front facing heavy duty 4" PM speaker gives good dispersion. When set is off vertical slide rule dial blacks out giving clean decorator appearance. Walnut wood with black and silver. Has continuous tone control, AFC and external FM antenna for finest FM performance. Size: 5 1/2" H. x 14 5/8" W. x 6 1/8" D. Shpg. wt. 7 lbs.
No. 36A6518. Model RE-7371. Each \$44.95



MODEL
1703

\$22⁹⁵

Magnavox

SOLID STATE AM/FM TABLE RADIO

Modern as tomorrow, this beautifully styled compact radio has all the features you might expect in much higher priced models. Features automatic volume control, easy to read slide rule dial, switchable FM/AFC and an earphone for private listening. Lustrous black high impact plastic case measures 10" L. x 4" D. x 4" H. Shpg. wt. 4 lbs.
No. 36A6520. Model 1703. Each \$22.95

MODEL
1507

\$19⁹⁵

Magnavox

SOLID STATE AM CLOCK RADIO

Has all the features you could wish for in a clock radio, at a most economical price. Large clock is easy to read and allows you to select wake-to-music or wake-to-alarm, combined with Slumber switch so the radio will play for up to 1 hour after you retire, then turn itself off, ready to wake you at your selected alarm time. Radio has slide rule dial, automatic volume control and jack for personal earphone. Beige cabinet is 9 3/4" L. x 4" D. x 4" H. Shpg. wt. 4 lbs.
No. 36A8050. Model 1507.
Each \$19.95

Panasonic . . . FINEST QUALITY CLOCK RADIOS

Panasonic FM-AM DIGITAL CLOCK RADIO WITH 24-HOUR ALARM "THE NEWDAWN"

The "Newdawn" is attractively styled in midnight black with silver trim and handsome wood-grain cabinet. 24 hour full feature digital clock needs to be set only once. . . timer can be set to lull you to sleep at night with up to 60 minutes of music. Simple press of the nightlight button spotlights face for easy night time viewing, release button and it returns to soft illumination. Also offers Panasonic's "sure-awake" alarm system. Even when earphone or pillow speaker is left plugged in at night, the 3 1/2" permanent magnet speaker wakes you in the morning. AFC on FM. Engineered with dependable solid state devices. Size: 11 1/4" x 4" x 6 1/4". Complete with earphone. Shpg. wt. 5 1/2 lbs. No. 36A8029. Model RC-6530. Each. **\$59.95**



\$59⁹⁵



24 HOUR FULL FEATURE DIGITAL CLOCK

\$69⁹⁵

Panasonic ADVANCED DESIGN FM/AM DIGITAL CLOCK RADIO "THE CAMERON"

IN LUXURIOUS WALNUT WOOD CABINET

This exciting digital clock radio is loaded with the most unusual features and sets the pace for years to come. Lulls you to sleep with up to 60 minutes of your favorite music or program and then shuts itself off automatically. In the morning it automatically turns itself on again to wake you with either music or buzzer alarm. Even if the personal earphone is still plugged in from the night before, the radio will automatically switch to full speaker sound to awaken you to brilliant full bodied music. The separate dials for FM and AM tuning light-up independently to tell you at a glance which band you are receiving. Continuous tone control gives perfect bass/treble balance. AFC on FM locks in signals for crystal-clear, drift-free reception. Shpg. wt. 6 1/2 lbs. Size 12 1/4" x 6 3/8" x 4 1/4". Complete with earphone. No. 36A8016. Model RC-T469. Each. **\$69.95**

\$69.95

Panasonic

"THE MAYWOOD"

MINIATURE DIGITAL AM-FM CLOCK RADIO

• FEATURES EARLY "BIRD" ALARM

Truly unique clock radio has bird-like chirp alarm or wakes you to your favorite station. Set timer only once—it then wakes you daily, without re-setting. 60 minute sleep switch lulls you to sleep with up to 1 hour of music. Sure-awake system activates speaker even though earphone is plugged in. Has illuminated clock face. Black or antique white, each with silver trim. Size: 3 3/8" H. x 10 1/2" W. x 6 3/8" D. Shpg. wt. 5 lbs. Model RC-7021. No. 36A8045. Antique white. Your Choice. **\$42.95**
No. 36A8044. Black. Each

\$42⁹⁵



24 HOUR FULL FEATURE DIGITAL CLOCK



PANASONIC AM DIGITAL CLOCK RADIO

"THE MORNINGTONE" **\$32⁸⁸**

Handsome low profile design. 24 hour full featured clock lulls you to sleep with up to 60 minutes of music. . . wakes you to music or buzzer. A press of nightlight button spotlights face for easy night time viewing, release button and it returns to soft illumination. Radio is engineered to deliver strong, pleasing performance through 3" permanent magnet dynamic speaker, delivers excellent sound in full tonal range. Size: 12 1/8" x 4 1/8" x 5 1/2". With private earphone. Wt. 4 1/2 lbs. No. 36A8027, Model RC-1280. Each. **\$32.88**

MODEL 1704

\$29⁹⁵

Magnavox FM/AM CLOCK RADIO

Clean lines and modern design characterize this compact, full featured clock radio. The clock features wink alarm, a pleasant "chirp" instead of a noisy buzzer, or you may elect to wake to music from the radio. Slumber switch allows up to 60 minutes of radio operation after you retire, then shuts the radio off automatically, ready to wake you at the time you have selected. Luminous hands on easy to read clock face. FM-AM radio has automatic volume control, easy to read slide rule dial and switchable FM/AFC for no drift FM listening. Has jack for privacy earphone, which is included. Gleaming black high impact plastic cabinet is 10" L. x 4" D. x 4" H. Shpg. wt. 4 lbs. No. 36A8048, Model 1704. Each. **\$29.95**

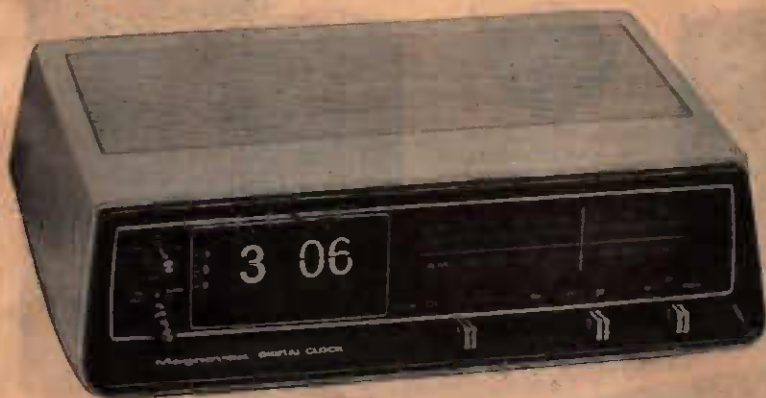


\$29.95

Magnavox MODEL 1778

FM/AM DIGITAL CLOCK RADIO

\$39⁹⁵



Contemporary as today . . . exciting as tomorrow . . . dramatically distinctive with sparkling black and white low profile styling. Easy to read illuminated flip digital clock, offers wake-to-music and wake-to-alarm controls, with slumber switch feature. Has 24 hour AM and PM alarm set to assure your awakening at any selected time. FM/AM radio is all solid state with superior sound reproduction. Features no-drift FM/AFC, slide rule dial with log scale, vernier tuning, built-in ferrite rod AM antenna and line cord FM antenna. Has slide controls, jack for optional earphone and tone control. The high impact plastic case is 10½" L. X 7" D. X 3½" H. Shpg. wt. 6 lbs. For 115V 60 Hz. No. 36A8052. Model 1778.

Each **\$39.95**

Magnavox MODEL 1783

FM/AM DIGITAL CLOCK RADIO

\$49⁹⁵



The convenience, information and safety provided by Instant Weather broadcasts are yours at the flip of a switch in this handsome, low profile clock radio. Be aware of possible storm warnings on 162.55 MHz at any time and enjoy the finest FM or AM broadcast reception too. The 24 hour alarm set assures your wake-to-music or wake-to-alarm at your selected time. Wink alarm, a pleasant "chirp" instead of a noisy buzzer alarm, and a 3 hour slumber switch are features of the easy-to-read illuminated flip digital clock. The FM-AM solid state radio has slide rule dial, slide controls, tone control, drift free FM/AFC and is equipped with earphone for private listening. Gleaming black sturdy plastic cabinet is 10½" L. x 7" D. x 3½" H. Shpg. wt. 6 lbs. For 115V, 60 Hz. No. 36A8065, Model 1783. Each

\$49.95

Panasonic MODEL RC-6551 FM/AM DIGITAL CLOCK RADIO

\$64⁹⁵

"THE DIGI-DATER"

Big bright letters and numbers tell you the day of the week, the date and the correct time on this full feature 24 hour digital clock. Once-only awake set, for gentle "chirp" alarm or radio music. 60 minute sleep timer allows you to listen to radio music and shuts off automatically in 1 hour. "Nap bar" allows you to shut off alarm in the morning, then sleep ten minutes more before the alarm sounds again. Sure awake system makes sure that alarm music is from the speaker, even if earphone is still plugged in from the night before. Integrated circuitry, built-in antennas, AFC, illuminated dials (and clock face), 4" PM speaker, and earphone jack are radio features. Has FM external antenna terminal. Complete with earphone. Antique white. Size: 4-13/16" H. x 14-1/16" W. x 7-3/16" D. Shpg. wt. 6½ lbs. For. 115V 60 Hz. No. 36A8043. Model RC6551. Each **\$64.95**



Panasonic MODEL RE-6600

"THE DIGICORDER"

COMBINATION DIGITAL CLOCK, AM/FM RADIO AND CASSETTE RECORDER

- FULL FEATURE 24 HOUR DIGITAL CLOCK
- FM/AM RADIO
- CASSETTE TAPE RECORDER

All the deluxe features of the finest 24 hour Digital Clock Radio PLUS a cassette recorder to record from microphone (furnished) or direct from radio. Lets you wake-up to radio, alarm or cassette. Push button cassette operation, automatically stops at end of tape. Easy pop-up cassette loading. Sound monitor system, has input jacks for phono and mike. Digital Clock features once only alarm set, 60 minute sleep timer with automatic shut-off, sure awake system assures loud speaker operation on alarm setting, easy to see illuminated clock figures. FM/AM radio features black out and illuminated slide rule dial, built-in antennas, AFC on FM, continuous tone control, 4 inch PM speaker, output jacks for MPX and privacy earphone. Black with silver trim. Complete with microphone and pre-recorded cassette. Size: 4½" H. x 14-7/16" W. x 10" D. Shpg. wt. 11 lbs. For 115V 60 Hz. No. 36A8033. Model RE-6600. Each **\$109.95**



\$109⁹⁵

Panasonic



"The Whitney"

4 CHANNEL QUADRASONIC STEREO SYSTEM

\$199⁹⁵

LESS 8 TRACK DECK AND BALANCER
LESS TURNTABLE



QUADRASONIC REMOTE BALANCER



For the RE-7750. Permits listener to balance speakers from a central location. Handsome modern styling with "shift-lever" control. Model RD-9775 36A9015. Each \$19.95

OPTIONAL 8 TRACK PLAYER DECK

Offers you sounds that only orchestra leaders have known before. Four channels, four speakers—two in front, two behind. Only upon hearing it will you realize the pleasure that 4-channel separation can offer . . . the truest, most realistic music reproduction ever. Even when quadrasonic sound is not being broadcast or played, you can still enjoy 4-channel presence . . . 4-speaker sound separation from 2-channel sound sources.

Complete AM-FM quadrasonic center unit and all four speakers. Each sealed speaker enclosure contains 6 1/2" high compliance acoustic suspension dual-cone speaker. Amplifier provides output power well over that of listening level. Tuner has FET's for selectivity, AFC to lock-in stations and tuned RF stage for incomparable FM reception. Four volume controls; separate bass, treble controls; loudness control; Radio/Phono, Radio/Tape, FM stereo selectors and FM stereo indicator light. Inputs: phono, tape (4-channel). Outputs: headphones, speakers, record. Built-in antennas and ext. ant. terminal. Walnut wood cabinetry. Center

unit 4-5/8" H X 16 1/2" W X 9-7/8" D. Each speaker 17 1/2" H X 9-7/8" W X 6" D. Shpg. wt. 45 lbs. No. 36A9014. Model RE-7750. Each \$199.95

"THE LAUDERDALE" 8-TRACK 4-CHANNEL DECK Extend the capability of the above receiver with this 4-channel 8-track cartridge deck. Thoroughly compatible with all 8-track cartridges whether they're new 4-channel or conventional 2-channel stereo. Both will provide bristling sound excitement when played through this deck and any 4 channel system. Deck automatically resets when 4 channel or stereo tape is inserted. Also features digital direct readout program indicator; program selector button; 2-channel/4-channel indicator, eject button and distinctive walnut wood cabinetry. Frequency response 50-12,000 Hz. Size: 4" H. X 12-5/8" W. X 8 3/4" D. Shpg. wt. 16 lbs. No. 31A7552. Model RS-845US. Each \$114.95

Panasonic

ADD PHONO OR 8-TRACK TAPE PLAYER OR BOTH FOR A COMPLETE SYSTEM

MODEL RE-7680 "THE SEBRING" FM/AM STEREO RADIO WITH SEPARATE SPEAKER SYSTEMS

- Stereo phone output jack.
- All solid state, I.C. Circuitry, FET Tuner.
- Walnut Cabinetry.
- 20 Watts Peak Music Power
- Blackout illuminated tuning dials.

As beautiful to look at as it is to listen to! Handsome, matched walnut speaker systems fit anywhere . . . in bookcase, on table, or may be hung on wall. Permits fullest stereo separation, taking advantage of matched and balanced 6 1/2" console type air-suspension speakers. Exclusive stereo eye system permits pin-point FM stereo tuning. Built-in FM automatic frequency control assures sharp drift-free reception. Has blackout illuminated tuning meter. Features Volume, separate Bass, Treble and Balance controls to take fullest advantage of radio performance. Loudness control allows full bass response even at low volume level. Has tape and phono inputs and record outputs.

Built-in FM antenna and ferrite core AM antenna for super sensitive reception. Dimensions: 16-11/16" x 9-7/8" x 3-11/16". Speakers 16-9/16 x 9-7/16 x 4-7/16". Operates on 115 V. 60 Hz. AC. Shpg. wt. 20 lbs. Import Special. No. 31A7593. Model RE-7680. Net Each \$129.95

No. 36A9000. Matching Automatic Turntable for above. (Inset) Each \$42.95



\$129⁹⁵

BELLE HOWELL MODEL 3350CST

AM/FM/8 TRACK STEREO SYSTEM

\$159⁹⁵

The latest in advanced styling and performance. Newest tuner design, FET's for low noise and high sensitivity, integrated circuitry for ruggedness and reliability. Tuned RF stage gives increased selectivity. Lighted tuning meter and AFC. 8 track deck features lighted program indicators, push-button channel selectors and automatic dust door. Air-suspension speakers produce full rich sound. Loudness control for increased bass at low listening levels. Rear panel jacks include phono/aux, tape in, tape out and speakers. Wood cabinetry finished in dark plank cherry wood grain. Unit size 4 3/4" H x 21 3/4" W x 9 3/4" D. Spkr. Size: 11" H x 8 3/4" W x 6" D. Shpg. wt. 25 lbs. 120 VAC 60 Hz. No. 31A7589. Model 3350 CST. Each \$159.95

Model 3250 CSF. Identical to above but without 8 track unit. Main unit size: 4 3/4" H x 15 1/2" W x 9 3/4" D. Spkr. Size same. Shpg. wt. 23 lbs. No. 36A9031. Model 3250 CSF. Each \$109.95



Panasonic JUST SLIGHTLY AHEAD OF OUR TIME

B-A proudly presents the unusual . . . the exotic products developed by modern technology through space-age research in electronics. We hope the products on this page will appeal to you in your search for something just a bit different from the usual . . . from B-A.

Panasonic "THE GARDENDALE"

MODEL CT-551

**PORTABLE
COLOR TV**

**WORLD'S FIRST
COLOR TV
WITH BUILT-IN
BATTERY!**

\$449⁹⁵



Introducing the worlds' most completely portable color TV, featuring rechargeable batteries that fit inside the set, just as in your portable radio. Operates on batteries or regular AC, or from your car or boat 12 volt battery with optional cord listed below. Batteries deliver about 2 hours viewing on a single charge, with a battery life of about 200 hours. Total weight, with batteries, is only 18.5 lbs, and the 4.5 inch diagonal picture gives a viewing area of 10 square inches. All solid state chassis with 114 solid state devices including integrated circuitry. Speed-a-Vision gives instant-on picture. Panalock for automatic fine tuning, set and forget when changing channels. Circuit includes keyed AGC for rock-solid picture, 3 IF stages and noise cancellor for maximum sensitivity and best results under adverse receiving conditions. 3" Dynamic speaker reproduces full brilliance and depth of sound, with personal earphone supplied for private listening. Has telescoping VHF dipole antenna and bowtie UHF antenna. Cabinet is high impact plastic in black and silver, with die-cast handle and protective front cover. Complete with battery. Dimensions, 12" W x 13 1/2" D x 6 1/4" H. Shpg. wt. 21 lbs.

No. 39A4034. Model CT551. Each **\$449.95**
No. 39A4051. Model TY-182P 12 volt battery cord for CT551. Each \$9.95
No. 39A451. Replacement Batteries TY355C. Pair \$19.95

Panasonic "THE TELE-TIME"

MODEL RC-6900

**"TELLS" THE TIME
AM/FM CLOCK
RADIO WITH
REMOTE
CONTROL**

\$149⁹⁵



A unique clock radio that actually announces the time...whenever you touch the top! May be set to announce the time automatically every hour, and in place of the usual alarm you can set the clock to announce the time every 10 seconds for up to 3 minutes. Volume of time announcement can be adjusted independently of the radio volume. Remote control for time announcement is included. Full feature clock has 4 step on off/auto/call function switch, 60 minute sleep timer and alarm setting control. Illuminated clock face. Sure-awake system assures speaker operating on radio alarm, even if earphone is plugged in from the night before. FM/AM radio features built-in antennas, blackout illuminated slide rule tuning, AFC on FM, continuous tone control, 4 inch PM speaker, earphone jack. Integrated circuitry assures finest radio performance. Midnight black and brushed aluminum cabinet. For 120 VAC 60 Hz. Size: 6-7 8" H x 6-11 1/16" W x 9-13 1/16" D. Shpg. wt. 11 lbs.

No. 36A8038. Model RC6900. Each **\$149.95**

Panasonic MODEL RS-296US "THE EXETER"

**STEREO CASSETTE
CHANGER DECK**



**PLAYS
UP TO 40 HOURS
CONTINUOUS MUSIC**

\$399⁹⁵

20 cassette continuous playback up to 40 hours of music on C120 cassettes before repeating, or push button cassette selection lets you enjoy your choice of 20 cassettes. And automatic reverse plays both sides of each cassette without manual flipover at the end of side one for hours and hours of uninterrupted listening. Push button controls for cassette selection work like a juke box. Reject button allows you to cancel a selection. Has auto sfp system and noise suppressor circuit. Lighted cassette numbers on control panel for program indication. Solid state engineered. Walnut wood cabinet with black and silver panel. Plexiglass cover over cassette compartment. Has 2 output jacks for line, 1 for headphone, and 1 for remote line. Complete with connection card and head cleaning tape. For 120 VAC. Size: 21 1/4" W x 15 1/4" D x 8-1/8" H. Shpg. wt. 44 lbs.

No. 31A7582. Model RS-296US. Each **\$399.95**

Panasonic MODEL RF-60

**"THE HEADSET"
FM STEREO
HEADSET RADIO**



\$85⁰⁰

In keeping with Panasonic's reputation for outstanding design and ultra-high quality stereo sound, we present the "Head-Set." One of the most unique and exciting stereo concepts since stereo itself . . . your own private stereo listening chamber. Styled in smart Midnight Black high-impact plastic accented by earphone cups of satin-finished aluminum with black leatherette cushions. These completely portable stereophones are a true representation of advanced integrated circuitry. Just touch the power switch to "on" and you're sealed into your very own chamber of stereo music. Two sensitive antennas pull in both local and distant stations loud and clear. Features a 3-position finger touch volume switch and a 2-position tone control switch for instant selection of preferred bass or treble tones. The "Headset" can also easily adapt to your home entertainment center. Just plug into the provided left and right output jacks and enjoy high-quality stereo FM broadcasts through your larger equipment. Complete with 3 Panasonic "AA" batteries and gift box. Shpg. wt. 3 lbs.

No. 36A3515. Model RF-60. Each **\$85.00**

HIGH QUALITY PORTABLE TV SETS



Panasonic TR-475
"THE POMONA" AC/BATTERY
TV WITH AM/FM RADIO
\$169⁹⁵

5" diag. screen (13 sq. in.) and AM/FM radio make a complete entertainment center. Operates from 120 VAC or self-contained Panaloid batteries that recharge on AC (5 1/2 hrs. viewing on single charge, 500 hr. life span). All solid state circuitry. 3 video IF stages and keyed AGC for big-set performance. Has slide controls, lighted slide-rule dial. Front mounted 2 1/2" speaker. Black and silver molded cabinet, 5-5 1/8" H. X 11-13/16" W. X 15-3/8" D. Dual VHF/UHF monopole antenna. With tinted screen, batteries, AC adapter/recharger, sunshield and earphone. Shpg. wt. 17 lbs.
 No. 39A3029. Model TR-475. **\$169.95**
 39A406. 12 V. Car/Boat Cord. Ea. \$9.95
 39A451. Repl. Batteries \$19.95



Panasonic TR-479B
"THE RUSSELLVILLE" AC/BATTERY
PORTABLE TV
\$109⁹⁵

Beautiful modern style in charcoal gray with silver trim. Has 9" diagonal (38 sq. in.) screen. Operates on 120 VAC, rechargeable battery pack (optional), or 12 V. car/boat source (cord optional). Easily portable, weighs only 13 1/4 lbs., is 9" H. X 14 1/4" W. X 10 1/4" D. Has 3 video IF stages, Speed-O-Vision, keyed AGC and all the important features to assure big-set performance. 3 1/2" front-mounted dynamic speaker for best sound, Has-VHF monopole, UHF bowtie antennas, detachable tinted screen and earphone.
 No. 39A3030. Model TR-479B
 Each **\$109.95**
 39A3032. TY-703P. Clip-On
 Battery Pack **\$39.95**
 39A406. TY-192P 12 V.
 Car/Boat Cord **\$9.95**



Panasonic MODEL TR-542
"THE MILANO"
12" DIAGONAL SCREEN TV
\$124⁹⁵

Striking Curvilinear "European Design" portable TV that's outstanding in both looks and performance. 75 sq. in. picture with detachable tinted screen for sharper detail. 58 solid state devices and integrated circuitry for finest picture and sound. Features leather-touch On/Off switch, Speed-O-Vision for instant on, keyed AGC for stability, 3 video IF stages and front mounted 4-3/8 X 3-1/8" dynamic speaker, VHF monopole and UHF bowtie antennas. Size 12-3/16" H. X 16 3/4" W. X 12-3/16" D. For 120 VAC. With earphone. Shpg. wt. 21 lbs.
 No. 39A3018 - Antique White
 No. 39A3031 - Pearl Gray
 Model TR-542. Your Choice
 Each **\$124.95**

Panasonic MODEL CT-994
"THE EVANSTON"
9 INCH DIAGONAL
COLOR PORTABLE TV
\$299⁹⁵



A truly portable color TV! Only 29 lbs. net, with solid state circuitry and a beautiful bright 39 sq. in. true color picture. Features Q-Lock II circuitry that compensates for changes in signal, readjusting automatically for uniformly perfect color, tint, contrast and brightness. Also has Panalock AFT automatic fine tuning, no manual adjustments are required. Automatic degaussing for color purity, keyed AGC, 3 IF stages and noise cancellor circuit for picture stability, sensitivity and minimum interference under all conditions. Set and forget tuning on VHF with click-stop tuner. Has Speed-O-Vision for instant-on, vacation switch to turn off all circuits when you're away for extended periods of time. 5 X 3" oval dynamic speaker. Walnut-grain hi-impact plastic cabinet 10 1/4" H. X 15" W. X 14 1/2" D. For 120 VAC. Has VHF dipole and UHF bowtie antennas and earphone. Shpg. wt. 31 lbs.
 No. 39A4050. Model CT-994. Each **\$299.95**

Panasonic "THE ORBITEL"
SPACE-AGE
SOLID STATE TV
5 INCH DIAGONAL
16 SQ. IN. VIEWING AREA
\$129⁹⁵

Truly modern in its exciting capsule style pearl white cabinet. Makes TV a new experience. 3 IF stages provide best reception while 70° deflection aluminized picture tube permits compact design. Sound comes from a 2 1/2" PM dynamic speaker, or achieve private listening by use of earphone (provided). Composed of 41 solid state devices for cool trouble-free operation. Convenient swivel pedestal and detachable tinted screen for better contrast in bright light. Speed-O-Vision gives instant picture and sound. Dipole antenna serves both UHF and VHF. 120 VAC. 60 Hz. Size: 6" H. x 10" W. x 10" D. Shpg. wt. 16 lbs..
 No. 39A480. **\$129.95**
 Model TR-005. Each.....



SAVE \$40.00
REG. WAS \$169.95

Panasonic MODEL CT-604
"THE RICHMOND"
16" DIAGONAL
PORTABLE COLOR TV
\$389⁹⁵



This Deluxe model combines the most wanted features in one beautifully compact portable. Swivel base lets you turn set to face you, locks at center position. Large 145 sq. in. picture quality is assured by automatic illuminated Self-Set color control. Touch a button and get factory pre-set color instantly. Panalock automatic fine tuning, automatic degaussing for permanent color fidelity, keyed AGC, 3 IF stages and noise cancellor circuit for stable, sensitive reception under all conditions. Set-and-forget tuning for easy, quick channel change, Speed-O-Vision for instant-on. Slide lever controls for volume, tint and color. Vacation switch turns set entirely off for extended periods of time. Has lighted UHF and VHF windows, detachable tinted screen. 4" dynamic speaker. Walnut-grain hi-impact plastic cabinet, 17 1/2" H. x 23" W. x 20 1/4" D. With earphone. For 120 VAC. Shpg. wt. 68 lbs.
 No. 39A474. Model CT-604. Each **\$389.95**

Panasonic MODEL CT-701
"THE WOODRIDGE"
17" DIAG. QUATRECOLOR
PORTABLE TV
\$439⁹⁵



The most advanced color features are all here in this strikingly beautiful 150 sq. in. portable. Quatre-color modular chassis incorporates all solid state construction and 5 modular circuit boards for the most convenient serviceability. Pana-Matrix picture tube for brilliant color and Q-Lock assures automatic compensation for perfect color, tint and contrast from all color broadcasts. Panalock automatic fine tuning gives freedom from manual adjustment with normal changes in the incoming signal. Contains 6 integrated circuits, 108 solid state devices. Speed-O-Vision for instant on, Vacation switch turns set completely off for extended periods of non-use. AGC for stability, 3 IF stages for sensitivity and noise cancellor circuit to minimize interference. Has 5" x 3" oval dynamic speaker. Walnut-grain finish hi-impact plastic cabinet, 17-3/8" H x 24-13/16" W x 18-7/8" D, has diecast handle. With earphone. For 120 VAC. Shpg. wt. 65 lbs.
 No. 39A4048. Model CT-701. Each **\$439.95**



Magnavox MODEL 5255
7" DIAGONAL SOLID STATE
AC/DC PORTABLE TV

\$114.95

Compact, beautifully styled, fits in anywhere! Operates from AC outlet or battery pack (optional) which recharges when set is used on AC. 24 sq. in. picture. Has separate UHF and VHF tuners, keyed AGC, telescoping VHF and bowtie UHF antennas. Red high impact plastic cabinet, 10" L x 10 1/2" D. X 8 1/4" H. With earphone and sun shield. Shpg. wt. 14 lbs.

No. 39A3021, Model 5255, Each, **\$114.95**
 39A3022, 9225, Battery Pack, 7 lbs. Ea. **\$39.95**
 39A3023, 12 V. Car/Boat Cord, 1 lb. Ea. **\$4.95**



Magnavox MODEL 5003
MONOCHROME 9" DIAGONAL
PORTABLE TV

\$89.95

Easy to carry portable... only 13 1/4" long, 10 1/2" deep, and 9 1/2" high. In rugged Midnight Black plastic cabinet of horizontal styling. Clear, sharp 42 sq. in. picture and "big set" performance. AGC for sound and picture stability, up-front secondary controls, 3" PM speaker, telescoping VHF and detachable UHF bowtie for glare-free viewing. For 120 VAC.

Shpg. wt. 18 lbs.
 No. 39A3024, Model 5003, Each... **\$89.95**



Magnavox MODEL 5009
12" DIAGONAL MONOCHROME
PORTABLE TV

\$79.95

Modular circuit design with integrated circuits in both video and sound IF modules gives less electrical interference and improved performance. Keyed AGC assures stability. 12" diagonal tube delivers a 74 sq. inch picture that is clear and bright for real viewing pleasure. Attractive style beige, high impact plastic cabinet, 17 1/4" L x 11 1/2" D. X 12 1/2" H.

Shpg. wt. 21 lbs.
 No. 39A3025, Model 5009, Each... **\$79.95**



Magnavox
MODEL 6124
12 INCH
DIAGONAL TAC
PORTABLE COLOR
TV

\$269.95

*Total Automatic Color System keeps flesh tones natural, no more green or purple faces with TAC! Automatic fine tuning, automatic chroma circuit, automatic tint eliminates the critical manual tuning so often necessary with ordinary color TV sets. The brilliant 75 square inch picture and compact Walnut finished high impact cabinet combine for greatest viewing enjoyment and easiest portability. Has 3 inch PM speaker for full tonal reproduction at all volume levels. Features 13 detent concentric VHF tuner, separate UHF tuner. Lighted dial inductor, quick-on operation, keyed AGC with dipole VHF and bowtie UHF antennas, 3 IF stages and sun shield for glare free viewing. For 120 VAC. 18 1/2" L x 15" D x 12 1/4" H.

No. 39A4040, Model 6124, Shpg. wt. 46 lbs. Each... **\$269.95**



Magnavox
MODEL 5021
MONOCHROME
16 INCH
DIAGONAL
PORTABLE TV

\$124.95

Full 141 square inches of sharp, bright TV picture is yours in this compactly styled portable. The high impact plastic case has an attractive grained Rosewood finish. Uses the new Magnavox T966 chassis which includes plug-in modules and integrated circuitry for improved reliability and greater ease of serviceability. Has UHF and VHF concentric solid state tuners for years of trouble free operation. Has pre-set VHF fine tuning, keyed AGC for picture and sound stability, and a 4 inch oval speaker for fine sound. Telescoping VHF and detachable bow tie UHF antennas, secondary controls for brightness and contrast are slide types. Earphone jack and removable sun filter are included. For 120 VAC. Dimensions are 11 1/4" L x 10 1/4" D x 12" H. Shpg. wt. 35 lbs.

No. 39A3003, Model 5021, Each... **\$124.95**



Magnavox
MODEL 6290
18 INCH
DIAGONAL
COLOR
PORTABLE TV

\$299.00

Magnavox research and engineering are at their incomparable best in this large screen, vivid color television, brought to you at a very modest cost. Enjoy "big set" color performance from this 180 square inch picture for full room viewing. Features include sharpness control, concentric 13 detent VHF tuner, separate UHF tuner, tone control, 4 inch PM speaker for maximum sound enjoyment, 3 IF stages and keyed AGC for rock solid pictures. High impact molded cabinet with grained walnut finish has carrying handle. Dipole VHF and bowtie UHF antennas are included. For 120 VAC. Dimensions are 24 1/4" L x 20 1/4" D x 18" H. Shpg. wt. 75 lbs.

No. 39A4042, Model 6290, Each... **\$299.00**



Magnavox MODEL 5054
19" DIAGONAL MONOCHROME
PORTABLE TV

\$139.95

Enjoy real big picture viewing with this 184 square inch smartly styled portable TV. Features 70 detent UHF tuning, telescoping VHF dipole antenna and detachable UHF bowtie antenna, and is complete with mobile cart for easy moving from room to room. High impact plastic case has beautiful grained walnut finish and is as much at home on shelves or tables as on the cart supplied. Has retractable handle. Uses the T966 chassis featuring modular construction and integrated circuitry for most reliable operation and ease of serviceability. Keyed AGC for stability and includes every feature of the other Magnavox models shown here. 24 1/4" L x 14" D x 19 3/4" H. Shpg. wt. 45 lbs.

No. 39A3027, Model 5054, Each... **\$139.95**

Psychedelic Light Systems

ELECTRONIC STROBE LIGHTS

\$19⁹⁵

COMPLETE KIT

\$29⁹⁵

FACTORY WIRED



At last! A high intensity strobe light of professional quality at a price anyone can afford! Speed control adjusts from a slow pulsating strobe to a fast, steady rhythm. Change a dull record session into a mind-blowing experience. Great for rock groups, parties, etc. Beautifully housed in walnut wood case. Operates on 117 V 60 Hz. Shpg. wt. 3 lbs. No. 33A2090.

Easy to Build Kit, Each **\$14.95**
 No. 33A2089. Factory Wired, Each **\$29.95**
 No. 33A2091. Replacement Xenon Bulb, Each **\$ 3.95**

DUAL STROBE LIGHTS

\$39.95

COMPLETE KIT

\$59.95

FACTORY WIRED

Dual strobe light adds another dimension to your rock group or party. Built-in relay gives random alternating pulse rate. Walnut wood cabinet. Operate on 117 V. 60 Hz. Shpg. wt. 6 lbs. No. 33A2143. Kit,

Each **\$39.95**

No. 33A2144. Factory Wired.

Each **\$59.95**



EASY TO BUILD KITS



SYNCHRONIZE LIGHT WITH MUSIC!

Psychedelic 3 CHANNEL LIGHT CONTROL CENTER

Any sound from a Hi-Fi, Phono or Radio may be fed into this unit. Use with spotlights or any group of incandescent lights up to 500 watts per channel or a total of 1500 watts. Great for musical groups, window displays or anywhere a big attention getting display is wanted. Operates from speaker output of amplifier, 3 separate color sensitivity controls. Color predominance can be obtained by adjustment of the sensitivity control. Indicator light for adjusting light operation. With aluminum case, all parts and complete instructions. Size 5 X 5 X 2 1/2". Operates on 115 V. AC. Shpg. wt. 2 lbs.

No. 20A1261. Complete Kit, Each **\$12.95**

FREQUENCY CONTROLLED 3 CHANNEL LIGHT CONTROL CENTER. Lights respond with different sound frequencies and volume. No channel interaction. Sound spectrum 60-1,000 Hz, 1,000-8,000 Hz, 8,000-15,000 Hz. Other features same as above unit. No. 20A1275. Complete Kit, Each **\$24.95**

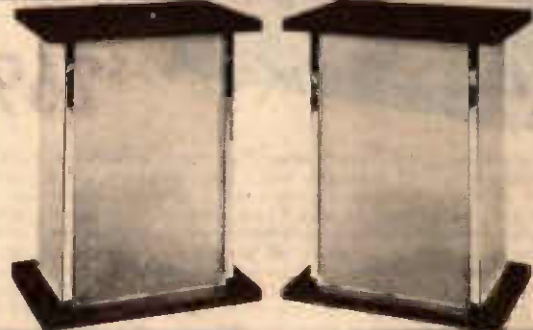
No. 20A1276. Factory Wired, Each **\$34.95**

DUAL CHANNEL Color Organs

PAIR... **\$49⁹⁵**

A bookshelf size, 3 sided prismatic glass enclosure, with Walnut finish top and bottom. Each unit is a dual channel color organ. Lights respond with sound volume and with different sound frequencies. Two color sensitivity controls in each unit. Reliable solid state circuitry. Simple hook-up to any Stereo System, Hi-Fi-Phono, etc. Size: per unit, 13" x 9 1/2" x 6 3/4". Shpg. Wt. 8 lbs.

No. 33A2079. Per Pair **\$49.95**



3 Channel Color Organ

EASY TO ASSEMBLE KIT

\$39⁹⁵

WIRED READY TO INSTALL

\$49⁹⁵



Solid state color viewer for high fidelity... to "View" your music while you listen! Beautiful colors and intensity change with the frequency and volume of music. Connects quickly to speaker output of any radio, hi-fi, recorder or guitar amplifier. Three color sensitivity controls to adjust each channel for maximum performance with any amplifier output wattage. Does not affect sound quality.

Solid state circuit uses silicon controlled rectifiers to trigger color intensity. Off-on switch. 18 x 12 x 9" oiled walnut cabinet with beaded translucent front. For 115 VAC. Made in U.S.A. Shpg. wt. 11 lbs. No. 33A2063. Easy To Assemble Kit **\$39.95**

No. 33A2062. Wired - Ready To Install **\$49.95**

EICO

Black-Lite Strobe

KIT **\$24⁹⁵**

MODEL BLS-10

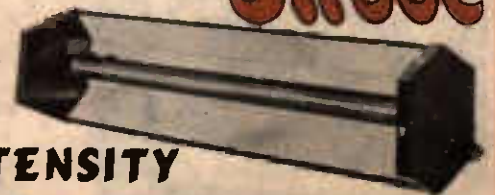
HIGH INTENSITY

OPERATES AS BLACKLITE STROBE OR REGULAR BLACKLITE

Creates a sensational sensory experience. Posters which merely glow with a blacklite, dance with illumination when using a Blacklite Strobe. This instant-starting 15 watt bulb in polished chrome reflector—almost equals 75 watts of ordinary blacklight. Easily mounts over paintings, in windows, etc., with multi-positional mounting "Key Hole" type slots. Throws its mystifying illumination as far as 25 feet or more. Solid State "Strobe" circuit. Adjustable on/off rate allows you to synchronize illumination with the rhythm of your music for extraordinary effects. Strobe action turns off for use as regular blacklite. Jet Black cabinet. Size: 4 1/2" x 18" x 4". Shpg. wt. 9 lbs. No. 33A2130. BLS-10K. Kit, Each **\$24.95**

No. 33A2129. BLS-10. Wired, Each **\$34.95**

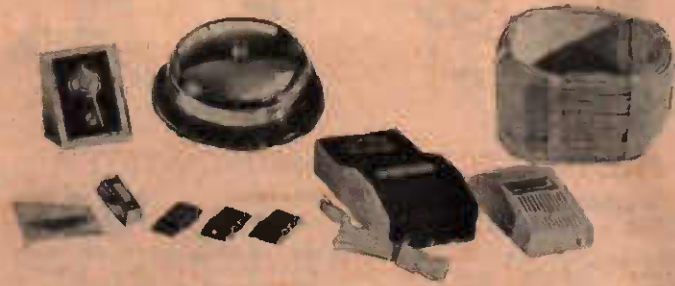
Replacement 18" Black lite Fluorescent Bulb. No. 41A8062. F15T8-BLB. Each **\$7.95**



SECURITEX

SECURITY ALARM SYSTEMS

TODAY'S CRIME PROBLEM IS YOUR PROBLEM...
PROTECT YOUR PROPERTY... PUT YOUR MIND AT EASE!



SECURITEX

HOME BURGLAR ALARM KIT

A complete security system you can install yourself. When a door or window is opened, or wires are cut, the alarm system is activated because of interruption of a continuous current circuit. Once triggered the alarm can be turned off only at the control panel. Can be armed by an inside off-on switch or by the exterior key lock when leaving the premises. Alarm can be sounded from inside by a manual alarm switch. Designed for "Do it yourself" panel, loud interior horn alarm, bell for loud warning to alert neighbors, police or passers-by, 3 magnetic door/window switches, manual alarm switch and outside lock switch and key, 150 ft. twin wire, hardware and complete instructions. Control panel contains transformer for low voltage DC assuring complete safety in operation. Carton size 15" x 20" x 5". Shpg. wt. 11 lbs.
No. 41A4092. B-1400 Kit. Each \$99.95



ACCESSORY ITEMS FOR B-1400 ALARM KIT

- (1) Interior Horn Alarm. To allow an increase in the area protected by the B-1400 above. Sounds loud warning indoors. Sit on table top or hang from wall. Size 5 x 2 x 3". Shpg. wt. 1 lb.
No. 41A4094. Model B7002. Each \$4.95
- (2) Heat and Fire Detector. Protect your valuables from both fire and theft at the same time. Use with the B1400 for fire protection. Sounds alarm automatically when temperature reaches 135° F. Sensor mounts on wall or ceiling in any area. Complete with mounting screws.
No. 41A4095. Model B7005. Shpg. wt. 1 lb. Each \$5.95
- (3) Door and Window Alarm Switches. Magnetic switches to give protection for additional doors or windows. Shpg. wt. 1 1/2 lb.
No. 41A4093. B7004. Pkg. of 3 \$11.95

COMPACT HOME & APARTMENT BURGLAR ALARM



Protect from intrusion at three openings. Two windows and a door! Contains 3 compact burglar alarm units, only 2 1/4" x 4", are complete with clamps making installation in any door or window easy, using only a screwdriver. When entry is attempted a piercing horn alarm sounds, alerting occupants and neighbors, frightening the intruders.

Carry the compact little alarms with you as a personal alarm device, too. Each unit uses 2 "C" batteries listed below. Shpg. wt. pkg. of 3, 2 lbs.
No. 41A4100. Model HP-4001. Pkg. of 3 \$7.95
No. 21A2. "C" Cell Battery, 2 required per unit. Each 20"

ROOM AND APARTMENT HORN TYPE BURGLAR ALARM



Protect your home and family against intruders. Mount the unit next to the door with the magnet unit on the door (or the unit on the door if it is easier) and activate the alarm with your key. Only you can enter without the alarm sounding. A time delay of several seconds allows you to enter and unlock the unit with your key before the alarm sounds. Horn is loud enough to alert neighbors at

some distance. Powered by 2 "D" cell batteries. Alarm unit is 8" x 3" x 5 1/4". Shpg. wt. 2 lbs.
No. 41A4098. Model B4500. Each \$29.95
No. 21A1. "D" Cell Batteries, 2 required. Each 20"

DON'T OPEN YOUR DOOR TO A STRANGER



Never again need you open your door to a stranger... See your caller without opening the door. 160 degree wide angle lens lets you have a complete view of the outside without you being seen. Drill a 1/4" hole in the door at a convenient height, insert the viewer with the lens on the outside, tighten the two pieces with a screwdriver and your installation is complete. Nothing to wear out... ever. Brass finish. Shpg. wt. 1/4 lb.
No. 41A4097. Model DV-500. Each \$2.95



SECURITEX

SIREN TYPE ROOM AND APARTMENT BURGLAR/FIRE ALARM

Complete fire and burglar protection in the same unit, without expensive installation. Unit can be mounted over door or on wall where 10 ft. cord can be attached to door knob or stretched across stairs or doorway. When cord is pulled a magnet is removed from the alarm switch and the siren sounds a loud alarm. Built-in heat sensor activates the alarm when the temperature reaches 135°F. for fire protection. Uses 2 "D" cell batteries. Size 5 x 2 3/4 x 1". Shpg. wt. 2 lbs.
No. 41A4099. Model HP4000. Each \$19.95
No. 21A1. "D" Cell Batteries, 2 required. Each 20"

SECURITEX

PORTABLE PERSONAL SIREN



Completely self-contained compact, powerful siren for pocket or purse. Switch on the piercing alarm that can be heard 1/4 mile away to frighten assailants or summon help. Take it while driving or walking alone or in any potentially dangerous situation. Easily activated switch is protected from false triggering by enclosure flange. Supplied with shoulder strap for easy carrying. Uses 4 "C" batteries, not included. Size 7 1/2 x 4 1/4 x 5". Shpg. wt. 2 lbs.
No. 41A4096. Model P3004. Each \$29.95
No. 21A2. "C" cell batteries, 4 required. Each 20"

AUTO BURGLAR ALARM KIT

WITH DELUXE EXTRA LOUD SIREN!



SECURITEX

Makes every parking space as safe from car thieves as your locked garage! Simple to install, a loud piercing siren blasts instantly when a car door, hood or trunk is opened. It stays on until turned off with your key. Can even be wired to sound the alarm when the emergency brake is released, if you wish. Siren can be heard for blocks. It is bright finished die-cast metal and spun aluminum. Complete kit has built-in relay switch unit, 6 alarm switches, pick-proof key lock with 2 keys, 50' wire, installation hardware and detailed instructions for easy installation. For 6 or 12 volt systems. In 10 1/4 x 5 x 7" carton. Shpg. wt. 8 lbs.
No. 47A5631. Model A-6000. Each \$29.95

ALL PURPOSE BURGLAR ALARM SYSTEMS

MALLORY

CRIME ALERT ULTRASONIC BURGLAR ALARM



RECEIVER HORN



\$99⁹⁵

Plugs into 120 VAC, no wiring needed. Sends out invisible, silent unavoidable ultrasonic waves that blanket an area. The slightest movement by anyone 18 to 22 feet away will activate the crime alert. A loud audible alarm which may be switched on or off is built into the CA1A crime alert. Other bells, lights etc. up to 3 amps may be activated by plugging into 115 VAC outlet on side of crime alert.

After the alarm starts it may be stopped and reset in any of the following ways: Remote reset lets you activate and deactivate the alarm from a remote location. Lockswitch, shown at right, is recommended. Automatic reset. Alarm automatically stops after two minutes of operation. Accessory Timer CAT 100 (plugs into back of crime alert) must be used. Instant reset lets alarm trip only when intruder moves. Manual reset. After intruder has been detected the alarm remains on until manually turned off and reset.

Size: 6 1/4" x 4 1/4" x 2 1/2". Shpg. wt. 2 lbs.

No. 41A4064. Model CA1A. Each **\$99.95**

Remote Signal Set. Contains transmitter which plugs into CA1A crime alert above (fits with CA1A in optional wood cabinet below), indoor receiver horn and line coupling capacitor. Receiver horn can be located in any AC outlet on the same line transformer for remote signaling of intrusion.

No. 41A4065. Model KRS1. Each **\$39.95**

No. 41A4066. CAC1 Wood cabinet for CA1A. Each **8.95**

No. 41A4067. Model CAT100 Timer. Each **21.95**

HANDY BLAST



BIG NOISE IN A SMALL CAN!

\$3.50 EACH

- PERSONAL PROTECTION
- SUMMONS HELP
- BOAT HORN

Small size fits pocket or purse. Loud noise scares molesters or animals. Use when camping, boating, hunting or hiking. Helps you get emergency aid. Use it to call the kids, at sporting events, etc. 4 3/4" tall. Push top to operate. Sound in short bursts.

No. 17A1403 Each **\$3.50**

6 Replacement Cansisters Each **\$2.99**

No. 17A1404. Each **\$1.25**

CHAIN LOCK BURGLAR ALARM

A low cost security device offering dual protection against burglars and intrusion. Chain lock stops intruders while siren scares them off. Mounts easily on doors and windows. Complete with mounting hardware. Use 2 type "AA" batteries. (not included). Size: 3-5/8" x 2-3/8" x 1-3/8". Shpg. wt. 2 lbs.

No. 47A5589. Each **\$4.95**

No. 21A3. "AA" Battery. Each **17^c**

BUILD YOUR OWN PROTECTION SYSTEM!

110 VOLT SIREN

Powerful Police type siren can be heard blocks away. Resistant to corrosion, heat, cold, water, etc. Connect to warning systems or build your own low cost protection system against burglary and vandalism.

Operates on 110 VAC. 6" leads. Made in U.S.A. Size approximately 6" long x 5" dia. With mounting bracket. Shpg. wt. 4 1/2 lbs.

No. 47A5555. Each **\$19.95**

\$19⁹⁵

FIRE & THEFT SECURITY SYSTEMS

New handy guidebook completely covers the selection, installation, and general maintenance of home and business security system. Shows equipment available and how it works.

With the information in this book anyone can install and maintain a fire and security system. Size: 8 1/2" x 5 1/4". 176 pages. Over 100 illustrations. **\$4.95**

No. 16A1213. TAB Books. No. 556. Each **\$4.95**

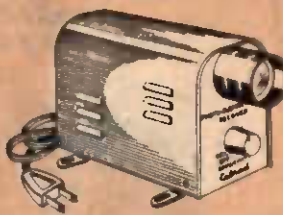


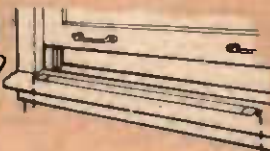
PHOTO-ELECTRIC WARNING SYSTEM

INCLUDES LIGHT SOURCE WITH INFRA RED FILTER & RELAY CONTROL FOR 117 VAC DEVICE

\$22⁹⁵

Interrupting light beam causes fast acting relay control to operate. For indoor warning or automatic counting system. Consists of two 117 VAC powered units, the light source and the photo cell receiver which can be separated 15 ft. or less day or night, when using the Infra red filter, and up to 50 ft. at night or 15 ft. during day without the filter. Internal relay controlled outlet supplies 117 VAC at 0.3 A. to your choice of alarm or counting device. Receiver and light source are both housed in all metal enclosures 4 3/4" x 4 x 2 3/4" wide. Shpg. wt. 6 lbs.

No. 41A4041. Imported. Special **\$22.95**



ENTRANCE SWITCH MATS

PRESS AT ANY POINT SWITCHING FOR ALARMS, CONTROLS, SAFETY

Reliable, thin switching unit for use under entrance mat, runner or rug. 3/4" thick, 17" x 23" with 6 ft. lead. Fully encased, weatherproof. Responds to light step, closing circuit momentarily.

No. 41A4034. Wt. 5 lbs. **\$18.60** 10 @ **\$15.95**

Net Each **\$1.59**

WINDOW SILL RIBBON SWITCH. Sensitive burglar alarm switch. White, completely sealed ribbon 18" long x 1/2" wide x 1/8" thick. Has 12" leads at both ends. Responds to light pressure, closing circuit momentarily.

No. 41A4035. Wt. 6 oz. **\$6.95** 10 @ **\$6.40**

Net Each **\$0.64**



SWITCHES FOR ALARM CIRCUITS

MAGNETIC PROXIMITY SWITCH FOR WINDOWS AND DOORS

Small molded case with screw terminals contains a reed switch capable of millions of operations. Other case contains permanent magnet. When magnet is brought within 1 inch of switch the circuit is activated. Easily installed on doors and windows so that opening will move magnet activating circuit.

Switch and Magnet No. 19A7219—Normally Open. Closes when magnet is brought near.

No. 19A7272—Normally Closed. Opens when magnet is brought near.

Your Choice **\$3.15** 25 Pcs. **\$2.53** 50 Pcs. **\$2.28** 100 Pcs. **\$1.81**

Per Pair **\$0.75** Per Pr. **\$0.51** Per Pr. **\$0.46** Per Pr. **\$0.37**

HEAT/FIRE SENSOR SWITCHES

For fire detection systems. Normally closed. Snaps open at 180° F. Closes when cooled. 1/4" disconnect or solder terminals. 1 3/4" L. x 3/4" W. x 1/8" D. Shpg. wt. 5 ozs.

No. 18A1549. 6 For **\$2.99**

ELECTRICAL SWITCH LOCK

Round key lock with sleeve and washers comes with 2 keys.

No. 41A4068. **\$6.95**

Each **\$1.16**

SELF-STICK FOIL

For window and door protection. No adhesive or varnish needed. 1 lb. roll.

No. 41A4070. 10 Rolls **\$3.95**

Each **\$0.39** Each **\$3.95**

No. 41A4071. Foil Connector—Single. Self-Sticking. 10 **\$2.95**

Each **\$0.29** Each **\$2.95**

No. 41A4072. Foil Connector—Double. Self-sticking. 10 **\$3.95**

Each **\$0.39** Each **\$3.95**

3-INCH 117 V. AC ALARM BELL

Produces loud, clear ring. Overcomes high background noises. Operates directly from output receptacle on photo electric warning system above, or from any 117 VAC power source.

Shpg. wt. 8 ozs.

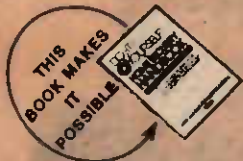
No. 41A4045. Imported. Special Ea. **\$4.95**

6-inch 12 volt DC alarm bell. Loud clear tone. For use in Burglar alarm systems or as doorbell in high noise areas. 1/2 amp. Red finish. 6" wire leads. From Japan. Shpg. wt. 1 1/2 lbs. **\$10.95**

No. 41A4069. Each **\$10.95**



The Professional Home Protection everyone can Install and Afford.



HOME SECURITY HANDBOOK

A comprehensive 40-page Homeowners Handbook which includes a wealth of information on professional home security as well as comprehensive installation on professional home security as well as comprehensive installation procedures in clear non-technical language.
No. 16A1225. Each \$2.95

EICO FC-100 SECURITY CONTROL CENTER

- Start your custom Burglar/Hold-up/Fire Alarm System with the FC-100.
- Add on Sensors, Alarm and Accessories to suit your own needs.
- No technical knowledge needed—no soldering.
- Ideal for Apartment, Home and certain Commercial Installations.

An extremely flexible home protection device. Designed for use with all types of intruder and fire sensors. The alarm activating circuits accommodate burglar alarm bells, separate fire

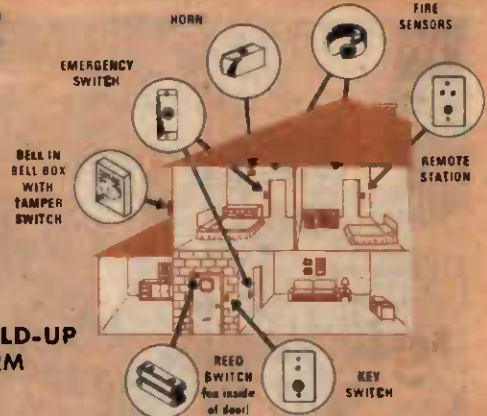
horns, as well as various combinations of fire and burglar alarm and horns. A Remote Station Control with signal lights (EICO A-65) can be installed to show that all doors and windows are closed and the alarm system is ready to be "armed." The simple circuit uses only two wires. Fire alarm circuits are always on and cannot be turned off accidentally. Powered by 117 VAC which supplies 6 volts DC for operating the system. Optional 6 volt lantern battery for stand-by/emergency operation. Installers handbook included. Size: 7 1/4" x 10 3/4" x 4 1/4". Shpg. wt. 6 lbs.

No. 41A4078. Model FC-100. Each \$59.95
No. 21B136. 6 Volt Lantern Battery. Shpg. wt. 3 1/4 lbs. Each \$2.30



- (1) SD-20 Heat Fire Sensors. Open circuit type. Open when temperature reaches 135° F. Size: 1-7/8" dia. Shpg. wt. 5 oz. No. 41A4091. Package of 3 \$8.95
- (1) SD-24 Furnace Attic Heat Sensors. Open when the temperature reaches 190° F. No. 41A4083. Package of 2 \$5.95
- (2) SD-40 Door Cords 12 Inch, 2 Wire. Withstand many years of flexing without damage. Shpg. wt. 2 lbs. No. 41A4081. Package of 2 \$3.95
- (3) SD-50 Tamper Switches. Prevents an intruder from deactivating the alarm system. No. 41A4082. Package of 2 \$4.95
- (4) A-35 Emergency Button. Overrides all other sensing devices, and can only be turned off by pushing the same button a second time. No. 41A4087. Package of 2 \$2.95
- (5) A-65 Remote Station Control With Indicator Lights. Consists of a wall mounting plate, momentary switch, a white "Circuit Test" light, and a red "Alarm On" light. The momentary switch turns the burglar alarm ON and OFF. The white light indicates that all intruder-detecting devices are operative (closed). The red light indicates that the system is "armed" and any intrusion will activate the alarm bell. Mounts on standard box. Size: 2 3/4" X 4 1/2". No. 41A4086. Each \$3.95
- (6) Protective Circuit Hook-Up Wire - 100 Ft. Two clear plastic covered 22 gauge conductors. Used for burglar and fire alarm circuits. Shpg. wt. 1 1/2 lbs. No. 2M16. Specify Clear. 100 Ft. For \$2.88

- (7) SD-10 Door Window Magnetic Contact Reed Switches. Normally-open reed switch enclosed in a plastic housing, and a bar magnet in a similar plastic housing. Size: 1/2" X 1/2" X 2 1/4". Shpg. wt. 2 lbs. No. 41A4080. Pkg. of 4 Pairs \$9.95
- (8) SA-25 Indoor/Outdoor 8 Inch Bell; 6 VDC. Extra loud alarm bell that can be used for both the burglar and fire alarm circuits. No. 41A4084. Shpg. wt. 5 lbs. Each \$14.95
- (9) SA-27 Steel Bell Box. Includes internally mounted safety plate with drilled and tapped mounting holes for Eico SA-25 8" underdome alarm bell (not supplied) and Eico SD-50 tamper switches (not supplied). Size: 12" H. X 9" W. X 4" D. No. 41A4085. Shpg. wt. 8 1/2 lbs. Each \$9.95
- (10) A-45 Momentary Entrance Key Switch with Signal Light. This switch enables you to get into your home without setting off the alarm. No. 41A4088 Each \$9.95
- (11) A-105 Warning Decals. No. 41A4089. Package of 6 \$1.95
- (12) Alarm Bell Wire. Two 18 gauge conductors. Wt. 3 lbs. No. 2A28. 100 Ft. For \$4.82
- (13) SA-15 Indoor Twin Klaxon Horn Alarm 6 VDC. Give loud ear-piercing sound. Size: 6 X 8 1/4" X 3-5/8". Shpg. wt. 1 1/4 lbs. No. 41A4090. Each \$9.95

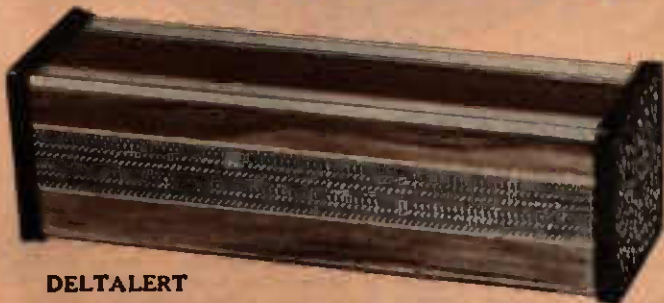


TYPICAL ALARM INSTALLATION

The FC-100 control center with detectors, alarm accessories and an alarm bell. Supplied with: 1 SA-25 8" Alarm Bell; 1 A-45 Entrance Key-Switch with "system-on" signal light; 4 pairs A-65 remote station control with signal lights; 1 SD-50 Tamper switch; 2 SD-40 Door Cords; 2 A-35 Emergency Buttons; Installers Handbook; 3 SD-20 Fire Sensors; SD-10, 4 pairs Door/Window Contact Switches; 6 A-105 "Home Protected" decals and 250 feet of hook-up wire. Additional remote stations, entrance key switches, alarm bells, signal horns as well as fire, smoke, intruder, detectors are optional. Size: 12 1/2" x 12 1/4" x 12 3/4". Shpg. wt. 16 1/4 lbs. No. 41A4079. Each \$109.95



DELTALERT ULTRASONIC BURGLAR DETECTION & ALARM SYSTEMS



DELTALERT

Deltalert. Simple and easy to connect, the Deltalert monitors and blankets a fifteen to thirty foot area (depending on the shape of the area). An intruder cannot hear or see the ultrasonic sound waves. The Deltalert will detect an intruder entering the monitored area by turning on lights, activating alarms or both. Remains activated for 10 seconds to 3 minutes (adjustable), then automatically resets. Specifications: Ultrasonic frequency 35 KHz. Controls: On-Off switch, built-in timer, variable sensitivity control. 110 volt, 1 amp receptacle on back for plugging in lights, bell, etc. Power requirements 110-130 V. 60 Hz AC. Dimensions: 10 3/8" x 3 1/4" x 3 1/4". Shpg. wt. 3 lbs. No. 41A4051. Complete, Ready to use. Net Each \$69.95

DELTALERT
\$69.95
DELTAHORN
\$24.95



DELTAHORN

110 Volt AC Deltahorn. Provides high intensity noise. Zero to 20 second adjustable delay allows you to enter without activating system. Plugs into Deltalert. No. 41A4062. Each \$24.95
Super Deltalert System. Contains Deltalert and horn described above except operates on 12VDC. Also includes 115VAC power supply and alarm alert light which mounts outside to warn you of illegal entry. 12 volt lantern type battery can be used for standby power. Includes connecting wires. No. 41A4061. Complete system. Each \$159.95
No. 41A4063. 12VDC Deltahorn only. Each \$26.95

Panasonic VIDEO RECORDING EQUIPMENT



JUST SLIGHTLY AHEAD OF OUR TIME!

Easily operated by teachers and students, the PANASONIC "Mini-TV Studio" expands and enriches educational opportunities. Its use as an audio-visual aid is limited only by the imagination.

NEW PANASONIC "MINI-TV" STUDIO

A major breakthrough in the rapidly expanding field of educational videography from the world's leading producer of professional video equipment! The PANASONIC "Mini-TV Studio" uncomplicates the program origination phase of educational video taping by providing a complete two-camera portable TV studio at a cost that fits even the tightest audio-visual budgets.

The all-new special effects generator has inputs for up to five cameras plus a VTR input for introducing previously taped material into the program. Special "Gen-Lock" feature insures perfect sync... even when mixing taped and live material on split screen, titling over material on tape, etc. Provides superimposing, fades, tap dissolves, vertical and horizontal split-screen, and left or right corner wipes. Special preview switching allows setting up next shot in advance. Balance control for uniform video output, reversing switch for switching "B" channel to negative, built-in 2:1 interlace sync generator, automatic talley light switching, intercam amplifier, etc. Input/output provisions include 10-pin and 6-pin type connectors as well as standard coax-type UHF connectors, insuring

complete compatibility with any make and model cameras. Console includes three 5" high-resolution monitors, five channel audio mixer (four mike plus one line level input), deluxe cabinet with lock. Mike inputs and output switchable for high or low impedance.

Includes two Model WV-360P full-feature studio cameras complete with 5:1 (14-70 mm) rear control zoom lenses, operator headsets and mikes, deluxe tripods with removable 5" costar dollies. Single camera cables carry video output, sync, talley light and intercam hookup.

The PANASONIC "Mini-TV Studio" is supplied complete with all cabling and accessories—ready to connect to any video tape recorder. Amazingly easy to operate, it adds professionalism and interest to any video program. Teachers, students, training directors... anyone literally becomes a "video engineer" with only a few minutes practice. Program origination takes on new dimensions limited only by the imagination. Be sure to contact the Pro-Industrial Division of Burstein-Applebee for a demonstration before finalizing your audio-visual budget.



Panasonic

MODEL NV-5120 CARTRIDGE VTR

The video cartridge of the future... here in 1972 - the only video cartridge approved by EIAJ fully compatible with any make and model EIAJ #1 type open reel machines. Cartridge may be recorded as is or loaded from open reel tapes. NO OBSOLESCENCE OF EXISTING OPEN REEL RECORDINGS!

Records and plays in color and monochrome. Controls include record, play, fast forward, reverse, audio, dub, skew, tracking etc. Automatic shutoff and rewind. Cartridge automatically ejects after rewind cycle is completed. PANASONIC - Just slightly ahead of our time!

Model NV-5120 - Record/Play Model NV-5110 - Playback Only

Model NV-5125 - Record/play with UHF/VHF tuning. 1/4" CASSETTE VTR. Similar to above, but accepts 1/4" video cassettes. (Interchangeable with Sony and 3M.) Solenoid operation automatic "tape lifter" during tape return into cartridge.

Model NV-2120. Record/play Model NV-2110. Playback only
Model NV-2125. Record/play with UHF/VHF tuning.



Panasonic

MODEL NV-3130 VIDEO TAPE RECORDER

The most advanced 1/2" VTR ever offered—the ideal choice for program origination or any recording application. Records and plays in both color and monochrome—both systems standard EIAJ #1. Electronic dropout compensator "erases" dropouts in playback by inserting previously scanned line in place of any line in which a dropout occurs... cleans up old or mishandled tapes. Has both assembly and insert electronic capstan-servo editing modes for clean, professional edits. Includes variable-speed slow-motion, skew and tracking adjustments, record level controls, record level meters etc. Automatic indicator shows presence of the color signal. Audio dub control allows recording of audio track while playing back video.

Particularly suited for mastering, the NV-3130's professional editing capabilities, dropout compensator, etc. insure the cleanest possible original tape and copies. The perfect video tape recorder for use with the PANASONIC "Mini-TV Studio", listed above, the NV-3130 offers higher quality and more professional features than any other 1/2" VTR available! Ask for a demonstration.



NEW INFONICS CASSETTE DUPLICATING SYSTEM 200

OUTSTANDING FEATURES OF THE SYSTEM INCLUDE:

- Truly professional quality; 10 to 15,000 Hz. frequency response on CrO cassettes.
- Ferrite heads - 50,000 hour life - very little cleaning required.
- Automatic rewind and cueing.
- New high speed - 160/80 or 80/40 ips master reel, 20 ips cassette.
- 50 db crosstalk rejection between stereo music programs.
- Auto-slave provides automatic, unattended duplication.
- Plug-in electronics with both digital and linear integrated circuits.
- Heavy duty, professional 10 1/2" reel and cassette decks of Infonics' own design.
- Total versatility: Reel-to-cassette; cassette-to-cassette; 8 track tape; reel-to-reel; even cassette-to-reel.
- External bias adjustment with separate bias meter in each slave module.

The new professional Infonics System 200 is a giant step ahead of anything available in the tape and cassette duplicating fields. It consists of a family of building-block modules which can be combined in any configuration to meet the specific requirements of the user. System 200 is now in volume production. Each module of System 200 can be fastened to, or set adjacent to, other modules in either the horizontal or the vertical position. Each module electrically inter-connects with every other by means of a single plug-in cable. All System 200 modules are available in 2-track monaural (System 202) or 4-track stereo (System 204) versions.

System 200 features the ultra-sophisticated heads of electronics of professional systems costing \$100,000 used by the large record companies. The costly ferrite heads are so durable that they practically never need replacement . . . an enormous economy over the life of the duplicating system. Even more important they need little cleaning and have 50 db crosstalk rejection between stereo programs. Every single unit goes through a 100% vibration test as part of an aerospace caliber quality assurance cycle.

A minimum starter system consists of a cassette master and a cassette slave for a very small investment. Additional modules can be added to the system at any time with complete compatibility. In this way, System 200 achieves the ultimate . . . it is equally suitable for the small school or office and for the commercial duplicating firm providing 20,000 cassettes a day. Reproduction quality represents a quantum jump over that previously available with economical duplicators and is equal to the most expensive professional systems. System 200 has the productivity, performance, ruggedness and operating reliability of \$100,000 reel-to-reel systems at a fraction of their price.

System 200 Electrical and Mechanical Specification: Frequency response, 40-15,000 Hz, ± 3 db; cassette duplicating speed, 20 ips; master duplicating speed, (inches per second), 80/40 ips (7 1/2 / 3 1/4 ips masters), 160/80 ips (15 / 7 1/2 ips masters); reel tape speed, 7 1/2 / 3 1/4 ips or 15 / 7 1/2 ips; signal-to-noise ratio, within 3 db of master tape; total harmonic distortion, 0.2%; crosstalk rejection, 50 db between stereo programs; ferrite head life, 50,000 hours; bias frequency, 1.5 MHz; capstan drive motors, all synchronous; all units operate in horizontal or vertical position.

① A Reel Master is required wherever a reel-to-reel tape is to be duplicated onto any System 200 slave. Sensing fail provides automatic cueing at beginning and end of tape. Lighted pushbuttons indicate duplicator function. Fool-proof internal computer logic allows buttons to be actuated in any sequence without damage to tape or mechanism. If both a reel master and cassette master are used in a system, the master not in use is "locked out" preventing any possible operator error during duplicating cycle. Available for 7 1/2 / 3 1/4 ips masters (Model RM) or 15 / 7 1/2 ips masters (Model RMS) up to 10 1/2" reel size.

Model 202RM. 2-track, 7 1/2 / 3 1/4 ips.
Model 204RM. 4-track, 7 1/2 / 3 1/4 ips.
Model 202RMS. 2-track, 15 / 7 1/2 ips.
Model 204RMS. 4-track, 15 / 7 1/2 ips.

② The Cassette Master permits duplication on any System 200 slaves from a master cassette recording. Features same as Reel Master, above. May be used alone, added to reel-to-cassette systems, etc.

Model 204CM. 4-track.
Model 202CM. 2-track.

③ and ④ Cassette Slaves are available to accommodate four cassettes (Model CSS) or one cassette (Model CS). Any number of slaves can be driven from any System 200 master. All slaves provide automatic or manual rewind and defective cassette position stop and indication as an option (with this option, the letter "R" is added to model number). Duplicating time for C-30's is 1.4 minutes, etc.

Model 202CSS. 2-track.
Model 202CSSR. 2-track.
Model 204CSS. 4-track.
Model 204CSSR. 4-track.

Model 202CS. 2-track.
Model 202CSR. 2-track.
Model 204CS. 4-track.
Model 204CSR. 4-track.

⑤ A real labor-saver, the Cassette Auto-Slave accepts and duplicates in sequence up to twelve cassette copies. Each cassette is duplicated and rewound automatically until all blanks have been recorded. Entire process takes less than two minutes per cassette. Ideal wherever minimum operator attention is desirable. May be driven from any System 200 Reel Master or Cassette Master.

Model 204AS. 4-track.
Model 202AS. 2-track.

The Pro-Industrial Division of Burstein-Applebee features the complete line of quality-renowned professional PANASONIC video equipment. From surveillance cameras and monitors to the most sophisticated studio cameras and video recording equipment, everything is stocked in depth. In addition to the all-new System 200, above, the complete line of Infonics high-speed cassette duplicators is also featured. In addition, the Pro-Industrial Division is a major stocking distributor for Ampex professional broadcast-type, audio products; Ecor wireless microphones; Standard Communications 2-way radios, walkie-talkies, pocket pagers, etc. Expert engineering guidance on professional video and audio product applications is yours upon request. Factory franchised service on all of our product lines is also available. Whatever your video or audio needs may be, be sure to contact the

Pro-Industrial Division, Burstein-Applebee, 3188 Mercier St., Kansas City, Mo. 64111

B-A SUPER BARGAIN SPECIAL!

REGULAR DIAL TELEPHONE

A COMPLETE EXTENSION PHONE WITH BELL

1c SALE

WITH PURCHASE OF TELEPHONE GET REGULAR 65c



TELEPHONE PLUG FOR ONLY 1c MORE

\$11.88

- Works with regular telephone systems.
- Also for private PAX systems.
- Tested — ready to install.

Make your own telephone intercom or add another phone for extra convenience in your home or business.

These high quality professional phones have been removed from service. They are clean, refinished and ready for use. Each instrument is complete with dial, handset and internal bell. Guaranteed to satisfy or your money back. Shpg. wt. 7 lbs.

No. 18A1417. Special Each **\$11.88**

No. 32A4003. Standard Telephone Plug. Net Each 65c

No. 18A1427. COMBINATION OFFER Telephone and Plug. **\$11.89**



Princess

TYPE TELEPHONE WITH BELL



SELECT YOUR OWN PHONE AND AVOID MONTHLY RENTAL CHARGES!

SPECIAL EACH

\$39.95

Most popular type personal telephone! Ideal for home, business, etc. With 4 prong plug, ready to plug-in. Quality engineered for trouble-free service. Bisque white. These are new . . . do not confuse with rebuilt phones. Shpg. wt. 4 lbs.

No. 32A4038. Special Each **\$39.95**

25 FOOT TELEPHONE EXTENSION CABLE

\$2.99



Standard style 4 prong plug and socket as used with regular telephones. Fully assembled with durable resistant plastic 25 ft. 4-wire cord. Fine for telephone-intercoms etc. Shpg. wt. 1 lb. No. 32A4002 Special **\$2.99**

WONDERLOOP TELEPHONE PICKUP FOR RECORDING PHONE CALLS



\$3.95



SHOWN ON TELEPHONE

New design, extremely sensitive loop slips over listening piece of Bell system handset. Requires no special installation. Hum cancelling design for perfect operation. Makes phone recording quick and easy. With 6 ft. shielded cord and miniature plug to fit most recorders. No. 32A4014. Special Each **\$3.95**

JIFFY PHONE PICKUP COIL

\$1.49



Jiffy suction cup attaches to side of telephone or to back of handset. Does not interfere with telephone operation. With shielded cable. Giant import savings! No. 11A1057. Special **\$1.49**

BELDEN COILED CORDS FOR TELEPHONE

Spade terminals and metal cord clamp attached, vinyl insulated. Less plug.



AS LOW AS **\$1.99**
CHOICE OF WHITE, BEIGE OR BLACK

Stk. No.	Beld No.	Color	Cond.	Length	Net Each
2A401	8495	Black	3	10" to 4 1/2"	\$1.89
32A4025	9443	Black	4	10 1/2" X 5'	2.48
32A4026	9443	Beige	4	10 1/2" X 5'	2.48
32A4027	9443	White	4	10 1/2" X 5'	2.48
32A4017	9440	Black	4	22" X 10'	3.99
32A4019	9440	Beige	4	22" X 10'	3.99
32A4018	9440	White	4	22" X 10'	3.99
32A4020	9442	Black	4	48" X 25'	5.89
32A4022	9442	Beige	4	48" X 25'	5.89
32A4021	9442	White	4	48" X 25'	5.89

25 FT. TELEPHONE EXTENSION CORD WITH LUGS



\$2.39 EACH

3-conductor telephone cable. Makes any phone portable. Instructions included. Shpg. wt. 2 lbs.

YOUR CHOICE EACH
No. 32A4035—Black **\$2.39**
No. 32A4037—White

NEVER PRICED LOWER!



NOW ONLY **65c**

EVERYBODY'S USING THEM STANDARD TELEPHONE PLUGS AND JACKS

Patterned like popular "telephone plugs" and interchangeable with them. Standard 4 wire type, with code marked screw terminals. Perfect for extension speakers, intercom systems, phones, etc. Surface jack, for exposed wiring, mounts with 2 screws. Flush jack, for concealed wiring, has fittings and wall plate for standard electrical outlet box. (Box not supplied). Specify Ivory or Brown.

① 32A4003 Portable Plug. Ea. 65c

② 32A4004 Surface Jack. Ea. 65c

③ 32A4005 Flush Jack. \$1.79

TELEPHONE "JACK-IN-A-PLUG"

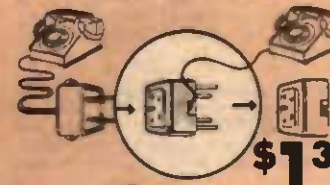
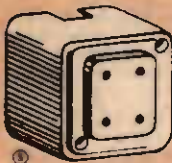
Unique telephone plug also contains built-in jack. Connect 2 or more phones from 1 existing jack. Easy to install. No loss of audio signal. Instructions included, Ivory color.

No. 32A4033. Each **\$1.39**

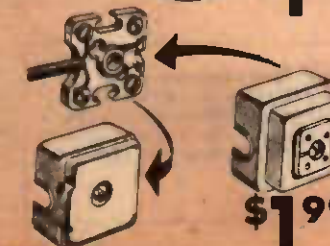
INSTANT JACK QUICK CONNECT TELEPHONE OUTLET

Instantly converts any single line telephone wall junction box into a convenient jack outlet without disturbing your present telephone. No wiring necessary! Simply remove junction box cover (one screw) and replace with "Instant Jack".

No. 32A4034. Each **\$1.99**



\$1.39



\$1.99

TELEPHONE ACCESSORIES

ENJOY THE CONVENIENCE OF
AUTOMATIC TELEPHONE
ANSWERING!



**PHONE-MATE
AUTOMATIC
TELEPHONE
ANSWERING
MACHINE**

\$139⁵⁰

You'll never again miss a phone call or be disturbed by an unwanted call. For salesmen, business and professional men, housewives, career girls, singles, institutions, industry, retailers. Automatically answers your phone and gives callers your recorded message, up to 30 seconds long, exactly what you want to say. Records incoming messages accurately and clearly up to 30 seconds long. Lets you hear who's calling without you touching your phone, without letting the caller know you're there. Never keeps callers on hold or scrambles messages. Pays for itself in about 6 months compared to cost of most live answering services. Helps protect your house; phone is never left ringing.

Plus Features: Can be used to "announce only." Gives callers your special message, but does not record incoming messages. Business, churches, social and civic organizations find this a valuable built-in Phone-Mate feature. Plugs into standard telephone jack. Works with any telephone. Complete with batteries, 4 "D" size; microphone, operating manual, 4-prong extension plug. Size: 11 3/4" x 9 3/4" x 3 1/2". Shpg. wt. 9 lbs.
No. 32A4040. Each **\$139.50**



**WHEELER SOUND POWERED
TELEPHONE HANDSETS**

Two to 12 may be used in or outdoors. No fire or shock hazards. No batteries used! 2-way talking up to 25 miles over 2-conductor wire as listed below. Ideal for construction work or football fields. Impact resistant handset with 4 ft. rubber cable and rubber insulated clips for quick connections.

\$14.88

No. 32A4006. Model SPT102. Net Each

High Level Handset SPT-150: Transmitter has a special mouthpiece designed to improve acoustic coupling and reduce interference of surrounding noise. Retractable-type 8" to 48" cord with rubber insulated clips.

\$17.20

No. 32A4024. Each
No. 2A9933. 2-Conductor wire. 100 Ft.\$1.04 1000 Ft.\$9.19



**B-A'S NEW PERSONAL
TELEPHONE
AMPLIFIER**

**INCREASES VOLUME 5 TIMES
OVERCOMES NOISE
HELPS HARD OF HEARING**

**B-A \$7.95
LOW PRICE**



Transforms any ordinary telephone earpiece into a unique sound-control amplifier. Overcomes difficult local noise problems and brings normal private telephone use to those with hearing loss. New solid-state electronic concept assures maximum hearing range and comfort . . . attaches instantly and securely to any phone with a simple, snug fitting band. Four transistor amplifier raises incoming telephone volume up to 5 times higher with full clarity. Has recessed volume control. Precision built for reliable performance. Shpg. Wt. 1 lb. Less battery.

No. 32A4013. High Quality Import. **\$7.95**
Each
No. 21A5000. Battery for above. Net Each 51c

PHONE-CENSOR

Enables you to eliminate sound input from your end of a telephone conversation with finger tip control. Installs in seconds in handset with no wires or changes. Switch has fixed or momentary positions to cut off voice transmission. Does not interfere with normal telephone operation. Black color.

No. 32A4041. Model 771. Fits standard Western Electric, ITT Bell and Stromborg Carlson telephones. Does not fit Princess or Trimline.

No. 32A4042. Model 871. Fits standard Automatic Electric and General telephones.

Choice Each **\$4.95**



**PERFECT FOR HOME
OR OFFICE!**



RCA

**SOLID STATE
TELEPHONE
AMPLIFIER**

\$16⁹⁵

READY TO USE!

Allows everyone in the room to hear or speak over the phone with perfect clarity. Ideal for conference calls in home, shop or office. Also perfect aid for the hard of hearing. Completely portable, solid state, battery powered, requires no installation of any kind. When in use, the telephone handset is placed on the unit much like a normal telephone cradle. Switch the solid state amplifier on to provide room volume for everyone to hear. Has extension speaker and adjustable volume control. When conversation is completed phone is simply returned to its normal position. Case is durable break-resistant polystyrene plastic

No. 32A4001. Each **\$16.95**
No. 21B78. Penlight Battery
(requires 4). Each **19c**

**AUTOMATIC
TELEPHONE
MONITOR**



**RECORD
ALL TELEPHONE
CONVERSATIONS**

- Solid State
- Battery Powered
- Easy Hook-Up

MADE IN U.S.A.

\$29⁹⁵

**FUNCTIONS AS VOICE
OPERATED SWITCH FOR
RECORDING**

Record both sides of telephone conversations with any tape recorder which uses a remote control mike. Connects at any point of your phone line. Does not interfere with normal operation of your phone. Ringing signal or voice turns on recorder, automatically turns off when conversation ends. Makes recordings while monitor is attached to one phone and conversation is made at extension phone. Easy way to keep permanent records of incoming and outgoing phone calls. Reliable solid state circuit. Operates for weeks on inexpensive 9 volt transistor battery (not supplied). Sizes 1 1/2 x 1 1/2 x 2 1/2".

No. 11A7540. **\$29.95**
Each
No. 21B141. 9 Volt Battery. Each 54c

**TELEPHONE
PATCH CORD**

\$7.95



FOR RECORDING TELEPHONE CALLS

Works on all standard telephones including those with shielded bases and handsets. Will not interfere with telephone operation. Installs anywhere along the telephone line, at a terminal block or inside the telephone. No bulky suction cups or coils to hinder telephone operation. With miniature phone plug.

No. 32A4039. Each **\$7.95**

**HANDSET TYPE
TELEPHONE
INTERCOM**

Amazing power and clarity. Simple to use, like ordinary telephone with hand-operated "on" and "call" buttons. Excellent voice fidelity. Long distance communication for either outdoor or indoor use. Electronic tone call signal. Only 2 "C" flashlight batteries required for each handset. Simple to install with 2 conductor cable. No current drain when in standby. Wall hanger supplied. Japan import. Shpg. wt. 2 lbs

No. 32A489. Special Per Pair. **\$29.95**

No. 21A2 Battery (requires 2). Ea. **20c**

No. 2A9889. 2-Conductor Cable.
25 Ft. **\$1.43** 100 Ft. **\$3.24**
50 Ft. **\$2.12**



\$29⁹⁵



LOW COST INTERCOMS FOR EVERY NEED

Classic Series

CLASSIC IN STYLING, ADVANCED IN FEATURES, DECORATOR DESIGNED IN IVORY AND BROWN WITH WOOD GRAIN ACCENTS. SPACE-AGE INTEGRATED CIRCUITS FOR GREATER OUTPUT AND RELIABILITY. ALL "IN" UNITS INSTANT INSTALLATION... NO TOOLS OR TECHNICAL KNOWLEDGE NEEDED. UL LISTED.



2-CHANNEL WIRELESS INTERCOM SYSTEM

Features hi-power IC circuit for extra range and sensitivity. Two-channel operation permits wider use with less interference. Special filter circuit minimizes background line noise. Operates room-to-room or between buildings on the same line. Units have pilot light, on/off volume control, talk-listen switch with lock position for continuous transmission and channel selector switch. System can be expanded by adding several extra single stations. Ivory and brown with wood grain accents. 117 V AC. 7 X 3 1/2 X 2". Shpg. wt. 3 1/4 lbs.

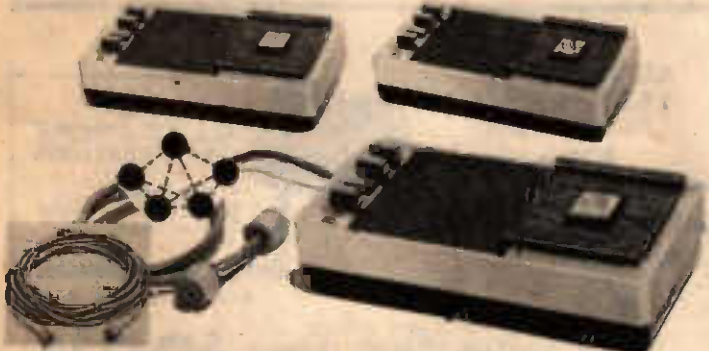
- No. 32A455. IN-505 System..... **\$33.95**
- No. 32A456. IN-500 Single Wireless Station. 1 3/4 lbs. Each..... **\$17.95**



HI-OUTPUT 2-STATION SYSTEM

Features IC circuit for greater output and sensitivity. Decorator styled with unique press-to-talk bar. Master has lock for continuous talk, on/off switch, volume control, pilot light. Remotes can signal master even when system is "off." Accepts one additional indoor or outdoor remote station (order below). 50 ft. cable supplied. Ivory/brown with wood grain accents. 117 V AC. 7" X 3 1/2" X 2". Shpg. wt. 3 1/4 lbs.

- No. 32A458. IN-302 2-Station System **\$21.95**
- Entry Sentry Door Intercom. Remote is designed for outdoor use, otherwise as above.
- No. 32A471. IN-301 2-Station System **\$21.95**



MASTER-TO-MASTER SYSTEM

Exclusive design features plug-in connectors for "instant installation". Fully selective; any station can speak to one or more other stations. Up to 5 stations in a system. Permits conference calls. Two separate conversations may proceed simultaneously. Two 50 ft. Multi-conductor cables with plugs included. Anyone can hook-up entire system in minutes. No tools required. Powerful IC circuitry allows distances of 500 ft. between first and last master station. Press-to-talk switch has lock position for continuous transmission. Pilot light. Ivory/brown with wood grain accents. Expandable to 5 stations. 7 X 3 1/2 X 2". Wt. 11 lbs. 117 VAC.

- No. 32A470. IN-603 3-Station System. Each **\$74.95**
- No. 32A457. IN-600 Additional Master Stations With 50 ft. plug-in cable. Each **\$29.95**
- Additional 50 Ft. Cable with Plugs. Used optionally with IN-600. Several cables can be plugged end-to-end for desired length. **\$9.95**
- No. 32A460. 6C-50. Wt. 1 1/2 lbs. Each.....



"STARTER SET" 3-STATION INTERCOM SYSTEM

Versatile system features the IN-400 Master Station, two IN-2 Indoor Remote Stations, two lengths of 50 ft. cable. Master unit accepts up to 4 Remote Stations, Indoor or Outdoor. Master calls any or several rooms desired. IC circuit for greater output and sensitivity. Pilot light. Remotes have "beep call" signal. Ivory/brown with wood grain accents. 7 X 3 1/2 X 2". 117 V AC. Shpg. wt. 4 3/4 lbs.

- No. 32A459. IN-404 3-Station Intercom System..... **\$34.95**

ACCESSORIES FOR IN-302 & IN-404

- Indoor Remote Station with 50' cable. Wt. 1 3/4 lbs. **\$8.95**
- No. 32A461. IN-2. Each
- Outdoor Remote Station with 50' cable. Wt. 1 1/4 lbs. **\$8.95**
- No. 32A462. IN-1. Each
- No. 32A463. 2C-100. 100 Ft. Cable with Plugs. Wt. 1/2 lb. Each..... **\$3.95**



Echo Series



2-STATION INTERCOMS

Ultra-sensitive 3-transistor system installs in minutes for 2-way conversation. Ideal for home, office, camper. Fine voice clarity. "Beep Signal" circuitry. Use up to 150 ft. apart. With 50 ft. plug-in cable. Brown styrene cabinet 3 X 4 X 2". Shpg. wt. 2 1/2 lbs.

- AC Operated Intercom **\$15.95**
- No. 32A405. EC-3A. Per Set.....
- Battery Operated (9 V. Battery) **\$12.49**
- No. 32A418. EC-2A. Per Set.....
- No. 21B141. 9 V. Battery. Each..... **54¢**

WIRELESS 2-STATION INTERCOM

Works where others fail! No installation... just plug units into standard AC outlets. Move from room-to-room, between buildings (as long as on same power line). Picks up every sound... perfect for baby listening, business, office, garage, etc.

- Budget priced, operate for pennies a week. Has special squelch circuit. Each unit has press-to-talk button and slide lock for continuous talking, on-off volume control and pilot light. Brown styrene cabinet 3 X 4 X 2".
- No. 32A409. EW-3A. Wt. 2 lbs. Per Set..... **\$25.95**



NEW FANON-MASCO TRANSISTORIZED MEGAPHONE

250 yards range. Exceptionally efficient for outdoor-indoor coverage such as fire department, police dept., and other municipal organizations. Ruggedly constructed of spun aluminum with baked enamel finish, equipped with weatherproof mike. Operates on 4 "D" cells. Features anti-howl damping circuit with high/low volume switch. Pistol grip on-off switch. 8 3/4 X 13 3/4" overall.

- No. 49A215. MV3. Shpg. wt. 5 1/2 lbs. **\$33.95**
- Each.....
- No. 21A1. "D" Cell Batteries for above. Each. **20¢**



DELUXE SOLID STATE FI INTERCOM SYSTEMS

USE AS MASTER-TO-MASTER OR MASTER-TO-REMOTE SYSTEM

ALL MASTER SYSTEM uses up to seven Director 7 or thirteen Director 13 Masters and permits any station to selectively communicate with any other station or group of stations in the system. Up to three simultaneous conversations may take place in a Director 7 system (six in a Director 13 system). Conferences between several stations can also be held.

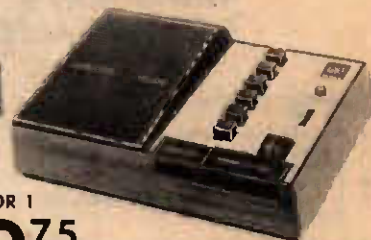
MASTER TO REMOTE SYSTEM permits one Director 7 Master to converse with up to six model Director 1 Remotes (twelve remotes with the Director 13 Master). Master can selectively speak with any one or more remotes, however, remotes cannot speak to each other. Remotes reply to the master "hands-free" and can operate either private or non-private by use of the privacy switch.

Full 1 watt power masters have volume control On/Off switch, talk/listen switch with lock position and U.L. listed power supply for 110-120 VAC. Brown with wood grain accents and brushed aluminum trim. Size 9 1/2" x 6 3/4" x 3 1/2". Cable requirements: One more conductor than total number of stations in system. Add one shielded wire for each PR-15 Paging/Talk-back relay. Order cable from page 159.

- No. 32A474. Model Director 7. Seven Station Master. Shpg. wt. 3 lbs. Each \$34.65
- No. 32A472. Model Director 13. Thirteen Station Master. Shpg. wt. 4 lbs. Each \$43.50
- No. 32A473. Model Director 1 Remote. Shpg. wt. 2 lbs. Each \$10.75
- No. 32A4023. Model PR-15 Paging/Talk-back Relay. Connects Director 7 and Director 13 to PA system for Paging/Talk-back. Wt. 1 lb. Each .. \$22.25



DIRECTOR 13
\$43⁵⁰



DIRECTOR 7
\$34⁶⁵



DIRECTOR 1
\$10⁷⁵

TALK-A-PHONE SOLID STATE INTERCOMS

SUPER SELECTIVE ALL MASTER SYSTEMS



K-ML-10 OR K-AC-5411 MASTER



K-ML-5 OR K-AC-5406 MASTER



K-LS-10 MASTER



K-LR-3M REMOTE



K-LR-3R WALL MOUNTING REMOTE



AVAILABLE IN NORMAL POWER OR HIGH POWER MASTERS

Permits use of up to 5 remotes with KML-5 or K-AC-5406 master or up to 10 remotes with K-ML-10 or K-AC-5411 master. Master can talk and listen to any remote individually, more than one remote at once or to all remotes at same time. Remotes can originate calls to master, but cannot talk to each other.

Remotes can operate as private or non-private. When in non-private remotes can be answered from distance. Master is always private, and cannot be "eavesdropped on."

Only one master can be used in master remote systems. Master is only station that needs power. Masters size 10 1/2" W. x 8 3/4" D. x 3 1/8" H. Wt. 7 lbs. Case is grey vinyl clad and brushed chrome. Remotes size 7 1/2" W. x 8 3/4" D. x 2 7/8" H. Wt. 4 1/2 lbs. Finished in grained baked enamel and brushed chrome. Wall mounting remote model K-LR-3R is 6 1/2" x 4 1/8" x 2" D. Two types of masters are available, one for normal noise areas (offices, etc.) the other for hi-noise areas (factories, etc.).

- K-ML-5 NORMAL POWER MASTER for up to 5 remotes. \$49.95
- No. 32A426. Mfg. List \$85.00. Net Each.....
- K-ML-10 NORMAL POWER MASTER for up to 10 remotes. \$61.50
- 32A428. Mfg. List \$105.00. Net Each.....
- K-AC-5406 HI-VOLUME MASTER for up to 5 remotes. \$61.50
- 32A427. Mfg. List \$105.00. Net Each.....
- K-AC-5411 HI-VOLUME MASTER for up to 10 remotes. \$73.30
- 32A429. Mfg. List \$125.00. Net Each.....
- K-LR-3M DESK STYLE REMOTE. \$17.50
- 32A430. Mfg. List \$29.95. Net Each.....
- K-LR-3R FLUSH WALL MOUNTING REMOTE. \$17.50
- 32A431. Mfg. List \$29.95. Net Each.....

For cable requirements measure from master to each remote. Order cable 5303 listed with two station system at right.

ACCESSORIES FOR TALK-A-PHONE INTERCOMS



- ① K-W1 Wall Mounting Brackets for Models K-LC-2, K-LR-3, K-LR-3M, K-LR-2. Wt. 1 oz. per pair. \$60c
- 32A445. Mfg. List \$1.00 Per Pair. Net Per Pair.....
- ② K-HP-3 Hi-Power Remotes. With 8" speaker and 5-watt handling capacity. Charcoal gray metal cabinet. 12" W. x 8" D. x 12" H. Wt. 9 lbs. \$23.20
- 32A442. Mfg. List \$39.50 Net.....
- ③ K-C-20 Hi-Power Re-entrant Horn. 15 watt capacity. For indoor and outdoor use. Charcoal gray 9". Wt. 5 lbs. \$33.00
- 32A443. Mfg. List \$56.50 Net.....
- ④ K-S-100 Wall Switch for originating calls through K-HP-3 Hi-Power Remote or K-C-20 Re-entrant Horn. 5 3/4" W. x 2 1/2" D. x 1 3/4" H. \$5.25
- 32A444. Mfg. List \$8.95 Wt. 1 lb. Net.....

All master systems in either 5 or 10 station capacity. Available in normal power models for average room level or high volume models (10 times volume output of normal unit) for noisy and larger areas. Each master can call and converse with other masters, selectively and privately, (cannot be eavesdropped on by other stations) or hold conferences with 2 or more masters. Several 2-way conversations can be held simultaneously without interfering with one another. Each master controls incoming volume. Cabinets of Grey, vinyl and brushed chrome. Normal power Masters operate from 120 V. AC or DC. High power Masters operate from 120 V. AC only and cannot be intermixed with normal power models. For 5 Master System run 6 conductor cable listed below between Masters. For 10 Master System run 11 conductor cable between Masters. All masters are 10 1/8" W. x 8 3/4" D. x 3 1/8" H.

- K-LS-5 5-STATION NORMAL POWER MASTER. Wt. 7 lbs. \$49.95
- 32A432. Mfg. List \$85.00. Net Each.....
- K-LS-10 10-STATION NORMAL POWER MASTER. Wt. 7 lbs. \$61.50
- 32A434. Mfg. List \$105.00. Net Each.....
- K-AC-505 HI-VOLUME 5-STATION MASTER. Wt. 7 lbs. \$61.50
- 32A433. Mfg. List \$105.00. Net Each.....
- K-AC-510 HI-VOLUME 10-STATION MASTER. Wt. 7 lbs. \$73.30
- 32A435. Mfg. List \$125.00. Net Each.....
- 6 CONDUCTOR CABLE (5506) for connecting K-LS5 or K-AC-505 Master. For indoor and outdoor use. Approx. O.D. 1/4". Wt. per 100 ft. 3 lbs. No. 2A9937. Net Per Ft. 11c
- 11 CONDUCTOR CABLE (9911) for connecting K-LS10 or K-AC-510 Master. For indoor and outdoor use. Approx. O.D. 1/4". Wt. per 100 ft. 5 lbs. No. 2A9938. Net Per Ft. 21c

K-LC-2 TWO-STATION INTERCOM SYSTEM



MFG. LIST \$88.00

\$51⁵⁰



Provides finest two-way communications with unmatched dependability for continuous duty. Complete system includes a master station, a sub station and 50 ft. of cable. Additional cable of up to 2000 ft. may be added (listed below). Both master and remote can be set for private (one cannot "eavesdrop" on the other) yet either can originate calls, even in private setting. Remote in non-private position may be answered from a distance without switching. Only master need be plugged into 110-120V. AC or DC outlet. Master has volume control, talk-listen switch and pilot light. Charcoal grey finish steel case with brushed chrome face plate. Remote has only talk-listen switch. Master size: 3 1/2" x 10 1/2" x 8 3/4". Sub. 2 7/8" x 7 1/2" x 8 3/4".

- K-LC-2 COMPLETE 2-STATION SYSTEM with 50 ft. of cable. Shpg. wt. 13 lbs. \$51.50
- No. 32A423. Mfg. List \$88.00. Net.....
- 5303. 3-CONDUCTOR INDOOR CABLE. Wt. per 100 ft. 1 lb. 4c
- No. 2A9939. Mfg. List per ft. 7c. Net, Per Ft.

HOME INTERCOMS BY NuTone

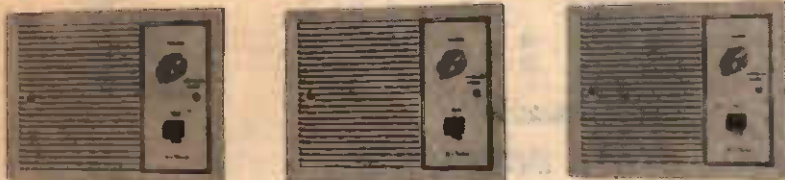
FM/AM MUSIC-INTERCOM PACKAGE SYSTEM

**NEW SOLID STATE 3-WIRE
DECENTRALIZED SYSTEM**

BASIC PACKAGE SYSTEM INCLUDES:

- FM-AM Master Station in walnut color.
- 3 inside speakers in eggshell white with "permanent monitoring".
- 1 door speaker.
- A-frames, transformer, antenna, 200 ft. 3-conductor wire.

\$134⁹⁵ COMPLETE



The total system provides AM-FM Radio throughout the house. System has flexibility of adding up to 8 remote stations. Crystal clear intercom and the protection of door answering from any inside speaker. Accurate slide rule tuning, automatic intercom override. Open back Master housings for best sound reproduction. Exclusive "latching" Talk-Listen button on inside speakers, for permanent-monitoring. System fits walls as thin as 2". Extra remotes can be added anytime.

No. 32A453. Model 2065. Complete System..... **\$134.95**
Extra Remote for use with above system..... **\$8.95**
No. 32A454. Model 2028 Remote. Net Each..... **\$8.95**



**EASY TO
INSTALL**

**Add up to 8
remotes any-
time...now
or later!**

AM-FM RADIO PLUS INTERCOMS THROUGHOUT THE HOUSE

REMOTE SPEAKERS FOR USE WITH MASTERS



1 Full Transistor Master

2 8-in. HI-FI Remote

3 HI-FI Patio Speaker

4 5-in. Full Range Remote

5 Outside Remote

6 Door Remote

1 FULL-TRANSISTOR FM-AM INTERCOM-RADIO MUSIC SYSTEM

REQUIRES ONLY 3 CONDUCTOR
CABLE TO REMOTE SPEAKERS

\$147²⁰ MFG. LIST **\$184.00**

- Up to 8 Remote Stations.
- 24 solid state components.
- Large ceramic master speaker.
- Easy to install.
- FM with AFC.
- Phono jack.

MODEL 2090 WITH
ROUGH-IN KIT

Never before so many features in a luxury set at a budget price! New all-call lever at the master lets you "page" every room, with speakers, at the same time. Each person can answer without walking to their remote speaker to operate the controls. 3-stage FM tuner including Field-Effect transistor for interference-free performance. Adjustable automatic "Intercom-Override." Tuner adapts for background music only. Intercom section can be left inoperative... ideal for use in professional offices. Economical to use... operates on no more current than a large electric clock. Master panel controls include 8 station selector switches, talk-listen switch, volume control, tone control, master volume control, Phono-AM-FM selector switch, separate AM and FM tuning controls. Master unit only complete with rough-in frame. Use with your choice of remote type units listed right. 16x8^{3/4}". Choice of two finishes. Shpg. wt. 9 lbs.
No. 32A410-2. Model 2090. Woodgrain Walnut. Net..... **\$147.20**
No. 32A411-2. Model 2091. Eggshell White & Beige. Net..... **\$147.20**

2 2021B HI-FI Speaker Remote, 8" coaxial hi-fi accessory speaker for inside use. Exclusive "Talk-Listen" button for intercom and door-answering. All controls removable if desired and mount in separate bezel (furnished) which can be mounted in two-gang wall box. Decorative piece (furnished) snaps-in where controls come out. Eggshell White finish. **\$20.16**
No. 32A412. Shpg. wt. 6 lbs. Mfg. List \$25.20. Each.....
No. 32A413. Rough-In Frame for 2021B speaker. Shpg. wt. 2 1/2 lbs. Each \$2.16

3 New 2014 Patio Speaker. Includes a 3-wire Remote-Control Unit with exclusive talk-listen button and rotary volume control. Permits speaker to be mounted out of reach. Completely weatherproof. **\$23.12**
No. 32A414. Shpg. wt. 8 lbs. Mfg. List \$28.90. Each.....

4 Model 2027. 5" Full Range Remote. Eggshell White finish. Complete with rough-in box. Requires rough-in opening of 7x5 1/8". **\$8.84**
No. 32A415. Shpg. wt. 4 lbs. Net Each.....

5 2006 Outside Door Remote. Complete with rough-in box. **\$7.95**
No. 32A416. Shpg. wt. 2 lbs. Each.....

6 New Model 412 Universal Door Speaker. For use with all Nutone 3-wire intercom systems. Eggshell white and gold unit is surface mounting. "Break-away" talk-listen switch permits speaker to be mounted out of reach, with talk-listen button mounted on door jamb. Replacement insert included. **\$13.95**
No. 32A417. Shpg. wt. 2 lbs. Net Each.....
3-Conductor, Cable flat, easy to conceal for Nutone installations. Requires one length from each remote back to master.
No. 2A223. Per Ft. \$100 Ft. For..... **\$2.94**

15 WATT MOBILE PA AMPLIFIER

\$29.95



Small size, 2" H. X 4" W. X 4 1/4" D. Can be used in any 12 volt car, truck, boat or plane. Positive or negative ground. Solid state, no warm-up. Input for high impedance mike and tape or phono. Use with any 4, 8 or 16 ohm speaker or trumpet. Operates on 12 VDC. Shpg. wt. 4 lbs.
No. 49A209
Import Special Each..... **\$29.95**

A COMPLETE MOBILE 15 WATT PA SYSTEM

\$59⁹⁵



**JUST HOOK TO ANY
12 V. DC SOURCE**

Versatile PA system mounts on car or truck in minutes. All-purpose mike comes with 5 ft. cord. Solid state 15 watt amplifier is only 4" wide. (Listed at left) Speaker is waterproof, rustproof, and shock-proof.

A complete system ready to attach, all brackets, plugs, and cables included. Use as mobile sound truck, as stationary PA unit for speakers, rallies, outdoor sporting events, picnics or any gathering where voice or music amplification is necessary. May be used on any 12 volt vehicle or boat.

No. 49A8000. Complete 15 watt system. **\$59.95**
Net Each

**B-A's 35-WATT
PORTABLE PA SYSTEM**



COMPLETE SYSTEM \$175⁰⁰

Features B-A's 35 watt feature-packed amplifier (listed on page 64), two 6.8 oz. 12" speakers, each with 35' cable and plug, split type carrying case, size 15 x 17 x 20", provides separate baffles for the two speakers plus convenient, secure carrying case for the amplifier. Your choice of E-V 595.00 list 664 cardioid dynamic mike or the Shure cardioid dynamic 545 that will slip out of mount for hand-held use. Both mikes have 18' detachable cable and plug and are supplied with B-A's leader value floor stand adjustable from 35" to 63". Amplifier operates from 117 V. 60 Hz. AC. Shpg. wt. 74 lbs. Less phono top.

No. 49A94. B-A's 35 watt System with E-V 664 Dynamic Mike. **\$175.00**
 Complete
 No. 49A8001. B-A's 35 watt System with Shure 545SD Mike. **\$179.00**
 Complete
 No. 49A205. 4-Speed Phono Top for above. **\$.34.95**

**B-A's 35-WATT
PA SYSTEM WITH COLUMNS**



**FOR CLUBS,
CHURCHES,
HALLS**
\$239⁹⁵

Ideal combination for semi-permanent or permanent installations, 2-Argos 5D1064 Sound Columns, B-A 35 watt Amplifier, Mike Stand and either the EV-664 Mike or the Shure 545 Mike which can be removed from stand for hand-held operation.
 Complete system, everything included and ready to hook up for operation. Shpg. wt. 70 lbs.
 No. 49A8003. With EV-664 Mike. **\$239.95**
 Net Each
 No. 49A8002. With Shure 545SD Mike. **\$243.95**
 Net Each

**B-A's 35-WATT
SYSTEM WITH SPEAKERS & BAFFLES**



\$185⁰⁰

Perfect system for custom installation. Features B-A's 35 watt power amplifier, 4 heavy duty 8" speakers, 4 walnut finish baffles. Famous Electro-Voice 664 microphone with cables and B-A's deluxe floor stand. The ideal system for small auditoriums, churches, club rooms, etc.
 No. 49A8005. **\$185.00**
 Complete
 Identical to above system but with 4 heavy duty 12" speakers and 4 walnut finish baffles. Perfect for larger areas where bigger speakers with more sound output is required. **\$199.95**
 No. 49A8006. Complete
 No. 2A28. 2-Conductor Wire for connecting speakers to above amplifiers.
 25 Ft.\$1.61 100 Ft.\$4.82 250 Ft. \$10.78
WRITE DEPT. CS-PA FOR SPECIAL QUOTATIONS ON ANY SYSTEM YOU MAY REQUIRE.



**POWER PLUS "T"
AM/FM TUNER**



Add AM or FM radio to your P.A. or stereo system. Tunes standard 540-1600 KHz or 88-108 MHz. Has tuning control, AM-FM-AFC switch, and power switch. Black w/brushed aluminum panel. Size 5 x 7 1/2 x 8 1/4". Shpg. wt. 13 lbs.
 No. 49A243. Model Power Plus T
 Each **\$69.00**



**ADD FM TO YOUR PA
OR STEREO SYSTEM**



Solid state Hi-Fi FM Tuner designed for the best reception in fringe areas or noisy locations where strong and effective limiting is a prime requirement. AFC circuitry provides positive no-drift operation 24 hours a day. Perfect for use with PA amp. Freq. range 88-108 MC. Freq. resp. 20-20,000 Hz. ± 1 db. Sensitivity 2 MV. Beautiful gold bronze panel in handsome metal cabinet. Small size, only 9 1/2 X 7 X 3 1/4" fits anywhere. Shpg. wt. 5 lbs.
 No. 49A23D. Net Each **\$69.95**



**AM-FM TUNER-AMPLIFIER WITH
MICROPHONE
PAGING**



Mono background music and paging receiver is a complete solid state high fidelity music system consisting of sensitive AM-FM Tuner complete with AFC for no drift reception and a self-contained audio amplifier with microphone pre-amplifier. Features include a volume control for program or phonograph music, a separate volume control for microphone level for paging and a function switch for source selection. A microphone precedence circuit is incorporated so as to suppress the music if desired when using the microphone. Output jack permitting Tuner to be used with external amplifier or recorder. The unit is supplied with a rugged brushed gold aluminum panel and is enclosed in a sturdy metal cabinet.

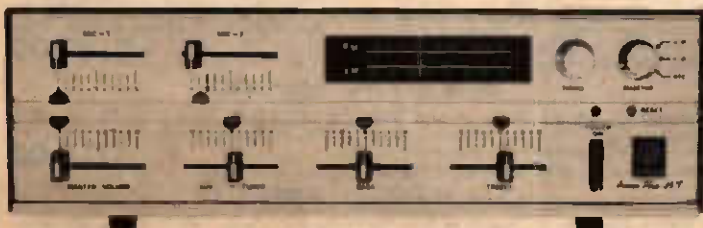
Specifications: 15 watts RMS, AM-FM solid state. Audio inputs: 1 Mic - high or low imp. unbalanced. 1 phono/aux. Paging relay. Output imp. 8 ohm, 25 volt line, 70 volt line. Amplifier freq. resp. 50 Hz - 20KHz. Solid state devices: 17 silicon transistors, 14 diodes. Tuner freq. FM: 88-108 MHz; AM: 510-1650 KHz. Tuner frequency resp: FM: 20 Hz - 20 KHz ± 1 db; AM: 20 Hz-5 KHz ± 3 db. Tuner sensitivity: FM: 2 mv; AM: 10 mv. Power consumption: 30 watts, 117 volts AC, 60 Hz. Size 13 1/2 X 10-7/8 X 3-9/16". Shpg. wt. 12 lbs.
 No. 49A231. Model 869. Net Each **\$173.50**

30 Watts RMS AM-FM Tuner-Amplifier with Microphone Paging. Other specifications same as above. Shpg. wt. 15 lbs.
 No. 49A244. Model 872. Net Each **\$199.95**



**35 WATT RMS P.A.
AMPLIFIER WITH FM/AM**

OPERATES ON 117 VAC OR 12 VDC



POWER PLUS "35T"

AM/FM tuner incorporated with a professional P.A. amp. Safety circuits protect against shorts, opens, and overdrive. Male 3 pin type connector for No. 1 mic. input (low impedance.) No. 2 mic. (switchable high or low Amphenol type screw connector) has "priority page" circuit which preempts music and operates. Aux. and mag. phono input. 40 to 20,000 Hz. Frequency response. Operates on 117 VAC 60 Hz or 12 VDC for mobile use. 4, 8, 16 ohm outputs, 25 and 70 volt balanced line outputs. Black w/brushed aluminum panel. Size 5 x 15 1/4 x 12 1/4". Shpg. wt. 30 lbs.
 No. 49A242. Model Power Plus 35T. Each **\$150.00**

BOGEN PUBLIC ADDRESS AMPLIFIERS



BOGEN CHB AMPLIFIERS FOR EVERY NEED!

More useable features than other Amplifiers selling for much more!
All are designed for continuous, heavy duty operation. Output impedances 4, 8 and 16 ohms, 25 V. line, 70 V. line.

20-WATT PA AMPLIFIER

Extremely versatile amplifier meets requirements for small auditoriums, restaurants, paging systems, etc.

Freq. response of 20-20,000 \pm 2 db gives excellent quality music as well as voice reproduction. 3 inputs, one high impedance microphone, two aux. (Fader) Hi-impedance, Hi-level. Hum and noise -65 db mike, -80 db aux. below rated output. Gain 125 db microphone, 100 db aux. Sensitivity microphone: 3 millivolts, aux. .5 volt. Controls; 1-Mike, 1-Aux. (Fader), 1-Master Volume, 1-Bass, 1-Treble, 1-Power. Tone controls: Treble (10 KHz) +10 db. -16 db.; Bass (50 Hz) +14 db., -10 db. Tubes 1-6EU7, 2-6GW8, 2 silicon rectifiers and 1 silicon diode. Power consumption 90 watts. Operates from 105-125 V, 50-60 Hz. AC. Size 15 $\frac{3}{4}$ " W. x 10" D. x 6 $\frac{3}{4}$ " H. Shpg. wt. 17 lbs.

No. 49A223. Model CHB20A. Mfg. List \$132.50. Net Each **\$79.50**

35-WATT PA AMPLIFIER

Ideally suited to small theatres, auditoriums, night clubs, etc. Power output 35 watts. Inputs for 2 mikes (125 db gain; 4 MV sensitivity), high impedance; 1 magnetic phono (115 db gain; 12 MV sensitivity) and 2 aux. (100 db gain; 2 volt sensitivity), high impedance, high level. Controls are Mike #1 Volume-Mike #2 Volume, Fader for 2 auxiliary inputs-Master Volume-Bass-Treble-Power Switch-Magnetic Phono Switch, provision for remote control of Mike #1 and Mike #2 or magnetic phono. Tubes (5) 1-6EU7, 2-7868, 1-12AX7, 1-6C4, 2 silicon rectifiers and 1 silicon diode. 105-125 VAC, 50-60 Hz. Size: 6 $\frac{3}{4}$ " H. x 15 $\frac{3}{4}$ " W. x 10" D. Shpg. wt. 20 lbs.

No. 49A224. CHB35A. Mfg. List \$162.50. Net Each **\$97.50**

50-WATT PA AMPLIFIER

Conservatively rated for long life in continuous operation. Inputs for 2 mikes (120 db gain; 5 MV sensitivity), high impedance; 1 magnetic phono (110 db gain; 15 MV sensitivity), 2 aux. (95 db gain; 3 V. sensitivity), high imp., high level. Controls: Mike #1 Volume, Mike #2 Volume, Fader for 2 aux. inputs, Master Volume, Bass, Treble, Power Switch, Magnetic Phono Switch provision for remote control of Mike #1 and Mike #2 or Magnetic Phono. Tubes (5) 1-6EU7, 1-12AX7, 2-6L6GC, 1-6C4 and silicon rectifier. 105-125 V. AC, 50-60 Hz. Size 6 $\frac{3}{4}$ " H. x 15 $\frac{3}{4}$ " W. x 10" D. Shpg. wt. 22 lbs.

No. 49A226. CHB50. Mfg. List \$190.00. Net Each **\$114.00**

100-WATT PA AMPLIFIER

Provides ample power for large auditoriums and vast outdoor areas. Inputs: 2 Mike (125 db gain; 5 MV sensitivity), high imp.; 1 magnetic phono (115 db gain; 15 MV sensitivity) 2 aux. (100 db gain; 3 volt sensitivity), high impedance, high level. Controls: Mike #1 Volume, Mike #2 Volume, Fader for 2 aux. inputs, Master Volume, Bass, Treble, Power Switch, Magnetic Phono Switch, provisions for remote control of Mike #1 and Mike #2 or mag. phono. Tubes (7) 1-6EU7, 1-12AX7, 4-7868, 1-6C4 and silicon rectifier. Size 6 $\frac{3}{4}$ " H. x 15 $\frac{3}{4}$ " W. x 10" D. Shpg. wt. 25 lbs.

No. 49A227. CHB100. Mfg. List \$247.50. Net Each **\$148.50**

BOGEN AMPLIFIER ACCESSORIES

(1) SR-2 Remote Volume Control. Adjusts amplifier volume of 2 channels from up to 2000 feet. For CHB35A, CHB50, CHB100, and MXMA. Uses 3-cond. unshielded cable. 3 $\frac{1}{4}$ " H, 6" W, 1 $\frac{1}{4}$ " D. Wt. 2 lbs. Mfg. List \$22.40.

No. 49A225. Net Each **\$13.45**

(2) LPC-4 4-Speed Matching Phono Top. Attaches to top of CHB20A, CHB35A, CHB50 and CHB100. With tone arm, cartridge, rubber turntable mat and built-in 45 RPM adaptor. Size 4 $\frac{3}{4}$ " H, 13" W, 9 $\frac{1}{2}$ " D. Wt. 8 lbs.

No. 49A207. Mfg. List \$48.75 Net Each **\$29.25**



BOGEN SERIES "C" SOLID STATE PA AMPLIFIERS

Simultaneous mixing of 3 input signals; two microphones and a tuner, tape recorder or phonograph (C20 has 1 microphone input). Protection against circuit damage caused by accidental shorting or disconnecting of loudspeaker lines. High impedance microphone inputs. Outputs include tape, booster amplifier, balanced 25-v. and balanced 70-v. balanced 4, 8, 16 ohms, 500/600 ohm zero level line with external WMT-1 transformers. All microphone inputs equipped with filters to protect against RF interference. Can be wired for mic. precedence (i.e. music muting). Separate master volume, bass, treble controls (except C20). High input sensitivity; low noise and hum. Wide frequency response for maximum clarity and intelligibility. Memory Markers to aid in returning controls to previously determined levels. Two loudspeaker plug-in sockets, plus screw terminals (one socket in C20).

20 WATT PA AMPLIFIER

C-20 for small auditoriums, area with low noise levels, etc. Hum and noise Mic. -68 db, aux. -70 db. Sensitivity Mic. 4 Mv, Aux. .35 volt. Tone control: Treble -14 db (12 KHz). Semiconductors; 7 transistors and 6 diodes. Power consumption 54 watts, 105-125 volts AC 50-60 Hz. Size: 11 $\frac{1}{4}$ " W. x 11" D. x 3 $\frac{3}{4}$ " H. Shpg. wt. 11 lbs. Model C20

No. 49A234. Mfg. List \$132.50. Each **\$79.50**

35 WATT PA AMPLIFIER

Most popular size amplifier. Handles the majority of installations. Hum and noise Mic. -60 db, aux. -70 db. Sensitivity Mic. 3MV, aux. .5 volts. Tone control action: Treble \pm 11 db (10 KHz), Bass \pm 11 db (100 Hz). Semiconductors: 10 transistors, 6 diodes. Power consumption: 60 watts 105-125 Volts AC, 50-60 Hz. Size: 14 $\frac{1}{2}$ " W. x 12 $\frac{3}{4}$ " D. x 3 $\frac{3}{4}$ " H. Shpg. wt. 14 lbs.

No. 49A235. Model C35 **\$97.50**

60 WATT PA AMPLIFIER

Handles large areas with ease. Plenty of power for large multiple speaker systems. Hum and noise Mic. -60 db, aux. -70 db. Sensitivity: Mic. 3 MV, Aux. .5 volt. Tone control action: Treble \pm 11 db (10 KHz), Bass \pm 11 db (100 Hz). Semiconductors: 12 transistors, 6 diodes. Power consumption 100 watts, 105-125 Volts AC, 50-60 Hz. Size: 14 $\frac{1}{2}$ " W. x 13 $\frac{3}{4}$ " D. x 3 $\frac{3}{4}$ " H. Shpg. wt. 16 lbs. Model C60

No. 49A236. Mfg. List \$197.50. Each **\$118.50**

100 WATT PA AMPLIFIER

Best choice for large installations both indoors and outdoors. Hum and noise Mic. -60 db, aux. -70 db. Sensitivity: Mic. 3 MV, aux. .5 volts. Tone control action: Treble \pm 11 db. (10 KHz), Bass \pm 11 db (100 Hz). Semiconductors: 14 transistors, 6 diodes. Power consumption 180 watts 105-125 Volts AC, 50-60 Hz. Size: 14 $\frac{1}{2}$ " W. x 13 $\frac{3}{4}$ " D. x 3 $\frac{3}{4}$ " H. Shpg. wt. 18 lbs.

No. 49A237. Model C100 **\$148.50**

WMT-1 TRANSFORMER

Provides 500/600 ohm zero level output for all above Solid State Amplifiers. Shpg. wt. 1 lb.

No. 49A4035. Mfg. List \$19.75. Each **\$11.85**



BOGEN SERIES "CT" SOLID STATE AMPLIFIERS

A distinctive feature of the CT amplifiers is the built-in equalizer filter circuitry, which provides a means of boosting or attenuating any or all of five selected frequencies to suit room acoustics. The electronic limiter assures a uniform output from the amplifier regardless of variations in the input level. Thermal cutout in output circuit protects power transistors. May be operated from 24VDC source or 2 12-volt auto batteries. 3 wire line cord for 120V. 50/60 Hz. Quick-disconnect plugs provided for speaker outputs.

Specifications: Frequency response: 1.5 db from 60 Hz to 12 KHz. Sensitivity: HI-Z MIC. 3mV; LO-Z MIC. .3mV; Bridging Input, 30 mV; AUX. 0.3V. Output levels; Bridging, 30 mV; Tape, 0.68 V. Hum and Noise; MIC. 60 db below rated output for both low and high impedance; AUX. 70 db below rated output; Fundamental, 80 db below rated output. Inputs: 4 HI-Z MIC. inputs, each convertible to LO-Z MIC. 2 AUX. inputs with fader control; Bridging input; 500/600 ohm telephone line with optional WMT-1 accessory; 2 inputs for remote volume control. (Special order option.) Outputs: 4, 8, 16-ohm speaker taps; 25-volt CT and 70 V balanced lines. Tape, booster and bridging outputs; 500/600 ohm telephone line output with WMT-1 optional accessory. Filter Control action: \pm 10 db at following frequencies: 80, 300, 1K, 5K, 10KHz.

30 WATT PA AMPLIFIER

Model CT-30. 30 watts at 1 KHz at less than 2% distortion. Gain 112 db. Semi-conductors: 18 silicon transistors, 1 zener diode, 7 silicon diodes. Size: 16 $\frac{3}{8}$ " W. x 12 $\frac{3}{4}$ " D. x 4 $\frac{1}{4}$ " H. Shpg. wt. 19 lbs.

No. 49A239. Mfg. List \$300.00. Each **\$180.00**

60 WATT PA AMPLIFIER

Model CT-60. 60 watts at less than 2% distortion. Gain 115 db. Semiconductors: 20 silicon transistors, 1 zener diode, 7 silicon diodes. Size: 16 $\frac{3}{8}$ " W. x 13 $\frac{3}{4}$ " D. x 4 $\frac{1}{4}$ " H. Shpg. wt. 22 lbs.

No. 49A240. Mfg. List \$350.00. Each **\$210.00**

100 WATT PA AMPLIFIER

Model CT-100. 100 watts at less than 2% distortion. Gain 118 db. Semiconductors: 22 silicon transistors, 1 zener diode, 7 silicon diodes. Size: 16 $\frac{3}{8}$ " W. x 13 $\frac{3}{4}$ " D. x 4 $\frac{1}{4}$ " H. Shpg. wt. 26 lbs.

No. 49A241. Mfg. List \$425.00. Each **\$255.00**

ACCESSORIES

Model TM-50. Low Impedance transformer, 50 ohms. Shpg. wt. 1 lb. Mfg. List \$22.10. Each **\$13.30**
Model TM-200. Low Impedance transformer, 200 ohms. Shpg. wt. 1 lb. Mfg. List \$22.10. Each **\$13.30**
Model TM-500. Low Impedance transformer, 500 ohms. Shpg. wt. 1 lb. Mfg. List \$23.00. Each **\$13.80**
Model WMT-1. Telephone line transformer, 500/600 ohms. Shpg. wt. 1 lb. Mfg. List \$19.75. Each **\$11.85**

YOUR HEADQUARTERS FOR FINE P.A. EQUIPMENT



B-A's 10 WATT POWER AMPLIFIER

Ideal for store demonstrations, auctions, clubs, churches, offices, classrooms, etc. Full 10 watts of power for improved performance sufficient for 2-12" speakers. Separate volume controls permit mixing microphone and phono. Has two speaker output sockets.

Specifications: 10 watts RMS. Tubes—6EU7, 2-6BQ5, 6V4. Freq. resp. ± 2 db 40 to 15,000 Hz. Inputs: Microphone (high imp.), phono, auxiliary. Sensitivity: Mic. .004 V.; Phono and Aux.: .3 V. for rated output. Controls: Microphone, phono and auxiliary fader, tone, power switch. Output impedance: 4, 8, 16 ohms, 25 volt (62.5 ohms) and 70 volt (500 ohms). Hum and Noise: Phono 65 db; Mic. 55 db below rated output. Dimensions: 10 1/2" W x 5" H x 6 1/2" D. Shpg. wt. 11 lbs. No. 49A213 Net Each

\$49.95



B-A's 30-WATT UNIVERSAL ALL TRANSISTOR MOBILE AMPLIFIER

\$129⁹⁵

The modernistic design of this transistorized amplifier provides a convenient way of obtaining 30 watts of audio power at any location, mobile or fixed. Operates anywhere . . . picnics, outdoor meetings, on boats, planes, cars . . . on 12V DC battery or 110-120VAC. Low current drain of .22 amps idle or 3.5 amps at full power makes it easy on battery system.

Specifications: Freq. resp. ± 2 db. 40 to 15,000. Hz. Inputs: Microphone (50 to 250 ohms), phono and aux. (high impedance). Sensitivity: Mic. .001V. phono and aux. .25V. Controls: Mic., Phono, and Aux. Fader, Bass, Treble, Master Volume with power switch. Tone Control Range: Bass 0 to -15 db; treble 0 to +15 db. Output impedance: 4, 8, 16 ohms. Output regulation 2 db. Hum and noise: Phono 75 db, mic 65 db below rated output. Semiconductors: 6 transistors, 3 diodes. Dimensions: 11" W. x 3 1/2" H. x 9" D. Shpg. wt. 14 lbs.

No. 49A202. (Less Phono Top). Net Each **\$129.95**
No. 29B213. Hand Held Mike for above. Net Each **\$22.80**



4 SPEED PHONO TOP FOR B-A AMPLIFIERS

For all B-A Amplifiers except BA10 and BA Mobile. For playing 78, 45, 33 1/2 and 16 RPM records. 117 V. 60 Hz. Wt. 7 lbs.

No. 49A205. Each **\$34.95**



PORTABLE SPEAKER CASE

TAKES 2-12 INCH SPEAKERS

\$26⁹⁵

DUAL SPEAKER - AMPLIFIER CASE. For TWO 12" speakers, amplifier space of 14x16 1/4 x 8"; overall size, 15x17 1/2 x 20". Plywood leatherette covered. No. 49A4010. Wt. 13 lbs NET EACH **\$26.95**

5-WATT 70 AND 25 V. LINE TRANSFORMERS

MATCHES 4 TO 8 OHM VOICÉ COILS IN MULTIPLE SPEAKER SYSTEMS

Enables volume adjustment at each speaker in the system. Provides excellent wide range response. Primary impedance tapped for 5, 2.5, 1.25, .62 and .31 watts. For mounting on speaker. Shpg. wt. 1 lb.

No. 13A955-70 V. Choice
No. 13A954-25 V. Each **\$1.69**
10 Each . \$1.52 25 Each . \$1.35

HEAVY DUTY 10 WATT @ 70 V.

Tapped for 10, 5, 2.5, 1.25, 0.625 watts. Secondary 4 or 8 ohms. Size 2 X 1 1/2 X 1-5/8" H. Wt. 1 1/4 lbs. Imported at big savings.

13A953. Each . \$2.55 10 Lots Ea . \$2.29 25 Lots Ea . \$2.07

\$1.69



Full Year Guarantee Covers Labor and Parts. Just return the Amplifier to us and at our option we will repair or replace it without cost to you.



B-A's TOP SELLING 35 WATT POWER PA AMPLIFIER

Perfect power for small theatres, bands, churches, stores, auditoriums, carnivals, night clubs, industrial plants, etc. Low price and quality construction assure extra profits when used in rentals. Separate bass and treble tone controls permit adjustment to meet all acoustical conditions. Input mixing is for 2 Hi Impedance microphones and phono/aux channels. Phono top may be added.

Specifications: Power output 35 watts RMS. Tubes and Diodes: 2-6EU7, 6C4, 2-7868, 5 silicon rectifiers. Freq. resp. ± 2 db 20 to 15,000 Hz. Sensitivity: mic. .003 V.; phono and aux. .25V; mag. phono .01 V. Controls: Microphone 1, Microphone 2, Aux. 1 & 2, master volume, bass, treble, power switch, Aux. 1 - Aux. 2 switch, normal-trumpet switch, mic. 2—mag. phono switch. Tone control range: bass ± 10 db; treble ± 10 db. Output Impedance: 4, 8, 16 ohms, 25 volt (18 ohms), 70 volt (143 ohms). Output regulation 2 db. Hum and noise: phono 70 db; mic. 60 db below rated output. Dimensions: 15 1/4" W. x 6" H x 10" D. Shpg. wt. 23 lbs.

No. 49A212. (Less Phono Top). Net Each **\$89.95**

B-A's 20 WATT POWER AMPLIFIER

Meets power requirements of chapels, clubs, schools, restaurants, industrial plants, orchestras, paging systems. Ample output for 4-12" PM speakers. New improved circuit using 2-6BQ5/EL84 high output tubes gives wide range frequency response.

Specifications: Power output 20 watts RMS. Tubes—2-6EU7, 2-6BQ5/EL84, 1-6V4. Freq. resp. ± 2 db 30 to 15,000 Hz. (Inputs: 2 microphones (high impedance), phono auxiliary).

Sensitivity: Mic. .004V; phono and aux. .3 V. Controls: Mic. 1, Mic. 2, phono and aux. fader, master volume, bass, treble, power switch. Tone control range: Bass 0 to -15 db; Treble 0 to +15 db. Output Impedance: 4, 8, 16 ohms, 25 volt (31 ohms), 70 volt (250 ohms). Output regulation 3 db. Hum and noise: phono 70 db; mic. 60 db. below rated output. Dimensions: 15 1/4" W x 6" H x 10" D. Shpg. wt. 19 lbs.

No. 49A201. (Less Phono Top). Net Each **\$74.95**

B-A's 60 WATT POWER AMPLIFIER

Super amplifier conservatively rated for long life in continuous operation. Ideal for large installations such as auditoriums, halls and stadiums, factories, fair grounds, airports, rail yards, hotels, outdoor gatherings, etc. Perfect for voice or music. It can be used with up to 12 trumpet type speakers or 16 cone type 12" PM speakers or any combination of the two types.

Specifications: Power output 60 watts RMS. Tubes and Diodes: 2-6EU7, 6C4, 2-6GT5, 0A2, 5 silicon rectifiers. Freq. resp. ± 2 db 20 to 15,000 Hz. Inputs: 2 microphone (high imp.), phono, aux, mag. phono. Sensitivity: Mic. .004 V., phono and aux. .3V, mag. phono .013 V.

Controls: mic. 1, mic. 2, Aux 1&2, master volume, bass, treble, power switch, Aux. 1-Aux. 2 Switch, mic. 2—mag. phono switch. Tone Control range: bass ± 10 db; treble ± 10 db. Output imp: 4, 8, 16 ohms, 25 volt (10.4 ohms), 70 volt (84 ohms). Output regulation 2 db. Hum and noise: phono 72 db, mic 62 db below rated output. Dimensions: 15 1/4" W x 6" H. x 10" D.

No. 49A203. (Less Phono Top). Shpg. wt: 26 lbs. Net each **\$109.95**

B-A's 100 WATT POWER AMPLIFIER

For use where big power is required for large auditoriums and most outdoor areas.

Specifications: Power output 100 watts RMS. Tubes and Diodes: 2-6EU7, 6C4, 4-6GT5, 0A2, 5 silicon rectifiers. Freq. resp. ± 2 db 20 to 15,000 Hz. Inputs: 2 mic. (high imp.), phono, aux., mag. phono.

Sensitivity: Mic. .005V., phono and aux. .4 V. mag. phono .013 V. Controls: Mic. 1, Mic. 2, Aux. 1-Aux. 2 master volume, bass, treble, power switch, aux. 1 - aux. 2 Switch, normal-trumpet switch, Mic. 2 mag. phono switch. Tone control range: Bass ± 10 db; treble ± 10 db. Output imp.: 16 ohms, 25 volt (6.25 ohms), 70 volt (50 ohms). Output regulation 2 db. Hum and noise: phono 75 db, mic. 65 db. below rated output. Dimensions: 15 1/4" W. x 6" H. x 10" D. Shpg. wt. 30 lbs.

No. 49A204. (Less Phono Top). Net Each **\$139.95**

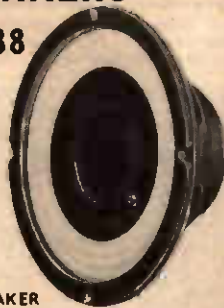


HIGH COMPLIANCE SPEAKERS

① \$8.88



② \$14.88

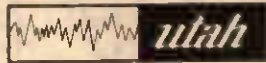
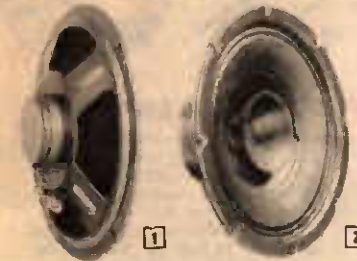


① 5" HIGH COMPLIANCE SPEAKER

Outstanding base response in a small sealed enclosure makes this the perfect woofer for tiny bookshelf systems or other special speaker systems. Has enormous power handling capacity of 18 watts with its extra-heavy 10 oz. Ceramic magnet. Frequency response 65-17,000 Hz. Complete with design specifications for enclosure, 5 1/8" Dia. x 2 1/8" D. Shpg. wt. 2 lbs. **\$8.88**
No. 34A493. Each

② 8", 2-WAY, HIGH COMPLIANCE SPEAKER

Full size 8" woofer for any multiple high-fidelity speaker system. Produces driving bass in sealed enclosures handling up to 30 watts. Plans provided for both sealed cabinet and bass reflex type enclosure. Whizzer cone extends highs and flattens overall response curve of 30-20,000 Hz. All this yet only 3" deep (Dia. 8 1/8"). Shpg. wt. 2 3/4 lbs. **\$14.88**
No. 34A495. Each



PROFESSIONAL QUALITY SPEAKERS

WITH BARIUM FERRITE MAGNETS

Outstanding performance with minimum cost. Gives very high speech intelligibility and music quality. Rugged construction. Screw terminals to speed installation. 8 ohm impedance. Extra thin, only 1 1/8" deep. W suffix indicates dual cone for extended highs, WCR-Cloth roll plus dual cone, DB-dual voice coil.

Fig.	Stock No.	Utah No.	Size	Mag. Wt.	Power Oz.	Range	Spk. Depth	Wt.	Net Each
(1)	34A480	PABEC5*	8"	3	15	40-7M	1 1/8"	1 3/4	\$ 6.16
(2)	34A481	PA8EC	8"	3	18	40-15M	2 1/8"	1 3/4	5.56
(2)	34A482	PA8JC	8"	10	30	32-15M	3	2 3/4	7.59
(2)	34A483	PA8JC-W	8"	10	30	32-19M	3	2 3/4	7.92
(2)	34A484	PA8JC-WCR	8"	10	30	30-20M	3	2 3/4	8.46
(2)	34A485	PA8JC-DB	8"	10	30	40-8.6M	3	2 3/4	8.91
(2)	34A486	PA12JC	12"	10	36	30-12M	4 1/8"	3 3/4	9.60
(2)	34A487	PA12JC-WCR	12"	10	36	28-18.5M	4 1/8"	3 3/4	11.34



REPLACEMENT SERIES SPEAKERS



Includes sizes and magnet weight to provide a complete range of service replacement and original equipment. All series are 3-4 ohm except those with * which are 8 ohms and those with † which are multiple impedance 10/20/40.

Fig.	Stock No.	Size	Magnet Wt.	Power Watts	Speaker Depth	Utah No.	Shpg. Wt.	Net Each
①	34A437	3" Square	.68 oz.	3	1 1/4"	SP3A	1/4 Lb.	\$2.37
①	34A438	3 1/2" Square	.68 oz.	3	1 1/4"	SP35A	1/2 Lb.	2.31
①	34A439	5x3" Oval	.55 oz.	4	1 1/2"	SP53Y	1/2 Lb.	2.34
①	34A440	4" Square	.55 oz.	4	1 1/2"	SP4Y	1/2 Lb.	1.86
①	34A441	4" Square	1.2 oz.	5	1 1/2"	SP4D	3/4 Lb.	2.70
①	34A442	4x6" Oval	.68 oz.	4	1 1/2"	SP46A	1/2 Lb.	2.70
①	34A443	4x6" Oval	1.2 oz.	5	1 1/2"	*SP46D-8	3/4 Lb.	3.40
①	34A444	4x8" Oval	1.2 oz.	7	2 1/4"	*SP48D-8	1 Lb.	4.14
①	34A445	5" P.C.	.55 oz.	4	1 1/4"	SP5Y	1/2 Lb.	2.34
①	34A446	5" P.C.	1.2 oz.	5.5	1 1/2"	SP5O	3/4 Lb.	2.99
①	34A447	5x7" Oval	.68 oz.	4.5	2 1/4"	SP57A	3/4 Lb.	3.25
①	34A448	5x7" Oval	1.47 oz.	6.5	2 1/4"	SP57D	1 Lb.	3.59
①	34A449	5x7" Oval	5.5 oz.	8	2 1/4"	*C57FC-W	1 1/4 Lb.	5.42
①	34A450	5x7" Oval	1.47 oz.	7	2 1/4"	†SP57DMI	1 Lb.	4.25
①	34A451	6x9" Oval	1.47 oz.	8	2 1/4"	†SP69DMI	1 1/4 Lb.	4.85
①	34A452	6x9" Oval	1.00 oz.	7	2 1/2"	SP69B	1 Lb.	3.99
①	34A453	6x9" Oval	1.47 oz.	8	2 1/4"	*SP69D-8	1 1/4 Lb.	4.25
①	34A454	6x9" Cloth Roll	10. oz.	15	3	*C69JCWCR	2 1/2 Lbs.	7.83
①	34A455	6" P.C.	.68 oz.	6	2 1/4"	SP6A	3/4 Lb.	3.15
①	34A456	6" P.C.	5.5 oz.	10	2 1/4"	SP6FC	1 1/2 Lbs.	4.41
①	34A457	8" Round	3.16 oz.	10	3 1/2"	SP8G	2 Lbs.	5.75
①	34A458	8" Round	6.8 oz.	12	4 1/4"	*SP8J-8	3 1/4 Lbs.	7.50
①	34A459	10" Round	10. oz.	13	4 1/4"	*SP10JC-8	3 Lbs.	7.77
①	34A460	12" Round	10. oz.	36	4 1/4"	*PA12JC	3 3/4 Lbs.	9.60

UNIVERSITY PH TRUMPET AND 30-WATT DRIVER

BOTH FOR \$47.77



PH TRUMPET . . . \$30.63
ID30 DRIVER . . . \$23.05

PURCHASED SEPARATELY WOULD COST . . . \$53.68

PH University trumpet and 30 watt driver, an unbeatable combination for performance and reliability. Re-entrant horn provides more volume over entire range. Low frequency cut-off 150 Hz. 4 1/2" air column length. 85° dispersion. 20-3/8" bell dia. 15 1/4" long less driver. Overall response 85-7,500 Hz. 16 ohm impedance.

No. 49A144. Shpg. wt. 16 lbs. Special **\$47.77**

University All-Weather Driver Unit Model ID30. 30 watts power handling. As used in above combination. Shpg. wt. 3 1/2 lbs.

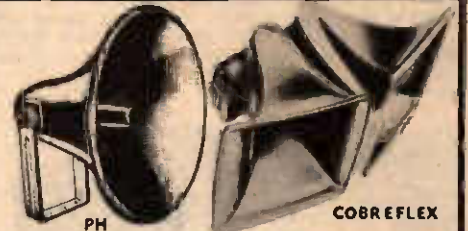
No. 49A4014. Net Each **\$23.05**

University PH Trumpet. As used in above combination. Size 20-3/8"D x 15 1/4"L. 85° dispersion. Shpg. wt. 11 lbs.

No. 49A4012. Net Each **\$30.63**

WEATHERPROOF TRUMPETS AND DRIVERS

UNIVERSITY TRUMPETS LESS DRIVERS



All metal reflex trumpets for deep sound penetration with a narrow sound penetration angle. Fully weatherproof.

Stock No.	Mfgs. Model	Bell Dia.	Horn Length	Low Cutoff	Dis-persion	Wt. Lbs.	Net Each
49A4012	PH	20-3/8"	15 1/4"	150Hz	85°	11	\$30.63
49A4013	Cobreflex	18 1/2" x 9 1/4"	10 1/4"	200Hz	120x60°	11	31.73

UNIVERSITY'S MOST POPULAR DRIVER

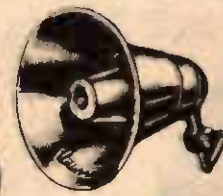
49A4014 Model ID30. 30 Watts power, 85-7500 Hz. V.C. 16 ohms. Shpg. wt. 3 1/2 lbs. Net Each **\$23.05**

UNIVERSITY MODEL ID-30T DRIVER

Same as the ID-30, but contains an integrated line-matching transformer. 70 V. line power taps: 30/15/10/5/2.5/1.25 watts. Impedance taps: 167/335/500/1000/2000/4000 ohms. Adjustment for impedance or power taps is easily made with slide-on push clips. 85-7500 Hz. frequency response. 30 watts I.P.M. 4 1/8" dia. x 6" d. Shpg. wt. 4 lbs. No. 49A4043. Model ID-30T. Each **\$33.50**



FANON HDA-15T



UNIVERSITY IB-A8



UNIVERSITY MIL-A8

All weatherproof, breakdown proof, designed to fit needs of indoor or outdoor systems requiring concentrated power.

FANON HDA-15T Multi-Tap Speaker. 4-Way built-in power selector. Unexcelled reproduction for general paging. 15 watts power. Power taps 70.7 volt line—15, 7.5, 3.5, 2.0 watts. 8 1/2" Bell diameter. Rugged aluminum construction with baked enamel finish. This speaker assures long dependable service. Rotate plug for power selection. Shpg. wt. 7 lbs. No. 49A4042. Model HDA-15T. Each **\$23.95**

Model IB-A8. World's most widely used medium power speaker, with full 30 watts continuous duty power capacity and improved lower frequency response to 250 Hz. Tropicalized, weatherproof for trouble-free lifetime operation. 105 degree wide angle dispersion. Frequency response 250-13,000 Hz. Universal swivel mtg. bracket. Size 10 1/4" dia. x 9 1/4" deep. Shpg. wt. 4 1/2 lbs. No. 49A4015. Model IB-A8. 8 ohm voice coil. Net Each **\$26.40**

Model MIL-A8. 10 watt. Full range. Improved lower frequency response to 350 Hz. Excellent for limited areas and filling in "dead" spots. Tropicalized, hermetically sealed. Frequency response 350-13,000 Hz. 120 degree dispersion. Has universal swivel mtg. bracket. Size 7 1/2" dia. x 6 7/8" deep. Shpg. wt. 3 1/2 lbs. No. 49A4016. Model MIL-A8 8-ohm voice coil. Net Each **\$21.80**

No. 49A4017. Model MIL-A45 45 ohm voice coil. Net Each **\$23.35**

Model C1B-A8 30-WATT FULL RANGE. Wide angle 60 x 120 dispersion speaker with built-in hermetically sealed driver. Delivers high output with intelligibility and noise penetration. Exclusive cobra flare insures uniform 250-13,000 Hz. response. Excellent "Talk-back" characteristics. Steel reinforced fiberglass/polyester horn gives superior acoustic qualities and resistance to physical abuse. Omni-Lok swivel bracket directs sound where desired. Size 7-3/8"H x 14"W x 12"L. Shpg. wt. 6 lbs. No. 49A4018. Model C1B-A8 with 8 ohm voice coil. Net Each **\$32.05**

POPULAR SPEAKERS AT MONEY SAVING PRICES!



ARGOS SOUND COLUMNS

GREATLY MINIMIZE FEEDBACK PROBLEMS

Argos Sound Columns actually "focus" sound so one column can cover an entire audience evenly. No loud spots or unintelligible areas. Ideal for churches, auditoriums, meeting rooms, outdoors, wherever sound is required. Provide vertical dispersion from 15 to 22 degrees and horizontal dispersion 120 degrees. Easily mounted with speedy mounting clips.

Model SD-1064. 6-Speaker System for voice reinforcement in rooms up to 60 ft. 30 watts power, 16 ohms. 6 5 1/2" speakers. Frequency response 200-10,000 Hz. Clad in walnut wood-grained vinyl with attractive cane grill. Size 30 1/4" X 7" X 3 1/2" D. Shpg. wt. 9 lbs. No. 49A4033

ARGOS NEWCOMB Net Each **\$47.50**
 Model SD-1100. 10 Speaker System handles up to 50 watts power for voice reinforcement in rooms up to 200 ft. 16 ohms. 200 to 10,000 Hz. response. 10 specially designed 5 1/2" speakers are balanced and acoustically damped. Size 49 1/2" X 7" X 6" D. Shpg. wt. 22 lbs. No. 49A4032. Net Each **\$74.50**

Model MSD-1060. Six heavy magnet 8" speakers handle 60 watts of power. Uniform sound level of voice and music under auditorium conditions. Two will cover large indoor areas with ease. Walnut wood grain finish, cane grille. Response 70 to 15,000 Hz. Will outperform 10 baffles, horns or ceiling speakers. 16 ohms. Size 10 3/4" x 50 1/2" x 8 1/4". Shpg. wt. 48 lbs. No. 49A4044. Each **\$89.95**

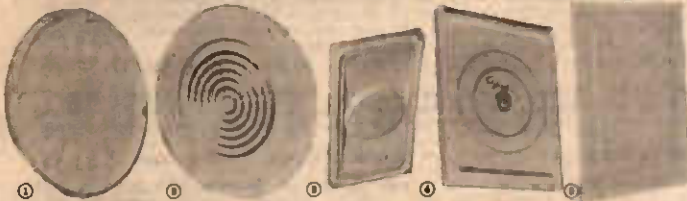
NEWCOMB SOUND COLUMNS

No hot spots - sound is equal throughout auditorium or hall. Highest quality music reproduction. Handle for easy carrying.

Model CS48. Most Practical Column on the Market! Combines exceptional directivity with portability. Excellent efficiency, power handling peak 60 watts. 25 ft. cord and plug in "hide-away" cord compartment - Extension jack and switch. 39-7/8 X 11 1/4 X 6-3/8". Shpg. wt. 22 lbs. No. 49A4030. Each **\$83.95**

Model SCS412. Best Column Speaker Ever Heard! Contains 4-12" speakers specially designed for column use. Power handling peak a husky 120 watts, makes for intelligibility, dependability and low distortion. A man-size system stands 56" high, 15" wide, 7 1/2" deep. 25 ft. cord, "hide-away" cord compartment, series type jack with shunting switch. Wt. 42 1/2 lbs. No. 49A4031. Each **\$139.50**

POLY-PLANAR SUPER-THIN SPEAKERS



The Poly-Planar is a new type of speaker design which employs a light-weight polystyrene acoustical panel supported by a frame of comoflexible plastic material to reproduce a wide range of frequencies. Due to the high acoustic efficiency, there is also a minimum of piston motion resulting in low distortion. The unique construction of this electromagnetics loudspeaker provides a combination of physical and electrical characteristics not available from conventional cone speaker designs. All are 8 ohm impedance.

(1) Model RP-8. 20 watts peak. Frequency range 40-20KHz. Size 8" diameter, 1" depth. Wt. 11 ozs. No. 34A469. Each **\$7.95**

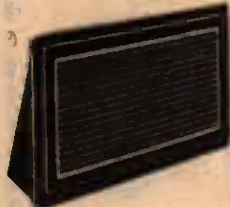
(2) Model G81-P. 8" speaker Model RP-8 above mounted on 12 3/4" white grille. Has facility for transformer mounting. No. 34A479. Wt. 17 ozs. Each **\$12.95**

(3) Model P-5B. 18 watts peak. Frequency range 60-20KHz. Size 1 3/4" x 4 1/2" x 8 1/2". Wt. 10 ozs. No. 49A4024. Each **\$6.95**

(4) Model P-20. 25 watts peak. Frequency range 30-20KHz. Size 1 1/4" x 11 3/4" x 14 1/4". Wt. 19 ozs. No. 49A4025. Each **\$10.95**

(5) Model G201-P. 25 watts peak. Frequency range 30-20KHz. Size 1 3/4" x 13 1/4" x 16 1/4". Wt. 31 ozs. No. 49A4023. Each **\$14.95**

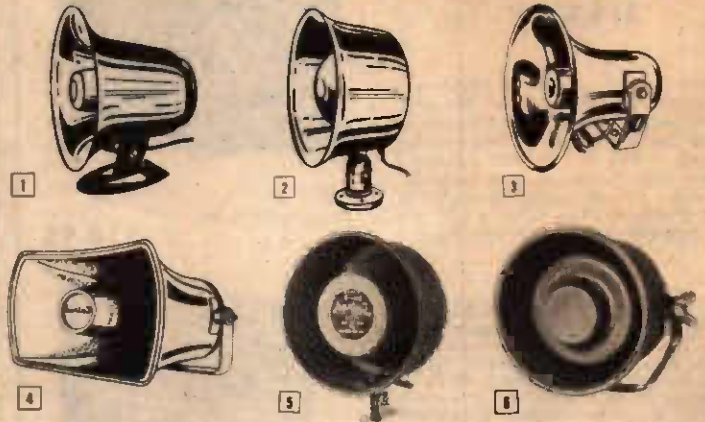
POLY-PLANAR AUTO HI-FI SPEAKERS



Weatherproof speaker systems ready to insert into walls, doors, cabinets, bulkheads, ceilings or vehicles. Tilt them up, tilt them down or mount them flush. Power handling: 18 watts peak. Freq. range: 60 Hz - 20 KHz. 8 ohms. Size 7/8" X 6" X 10". Wt. 14 ozs. No. 34A467. Model G51P Ivory Finish. Each **\$10.50**

No. 34A468. Model A-500-Black with Chrome Trim Pair For **\$19.95**

SPECIAL IMPORT SAVINGS ON THESE ALL PURPOSE SPEAKERS FOR INDOORS, OUTDOORS, PAGING, PA & MUSIC



① PAGING SPEAKER

Natural tone paging speaker for universal application. Wide angle 90° spread. Smooth frequency range, free of peaks, cuts out unintelligible lows and highs for maximum speech penetration. Weatherproof re-entrant type. For indoor or outdoor use. 180° swivel mount with screw flange. 5 watt power rating. 8 ohms. 5 inch horn opening. 5 3/8" long. With wire lead. No. 49A4008. Shpg. wt. 2 lbs. Import Special. **\$ 9.95**

② OUTDOOR MUSIC AND PAGING HORN

Enjoy outdoor music on lawn, porch, or patio. Response to 10,000 Hz. Sturdy metal bell projector horn completely weatherproofs enclosed heavy duty 5 inch cone speaker. Allows musical range not possible with reflex speakers. Swivel base and flange with wing nut. Will stand by itself for portable use. High efficiency, wide range, for good outdoor coverage. Two-tone grey 8" bell. 8 watts, 8 ohms. 5 1/2" D, 11 1/8" H. 3' wire lead. No. 49A4005. Shpg. wt. 2 lbs. Import Special. **\$17.95**

③ COMPACT PAGING PA SPEAKER

Wide 120° dispersion angle, compact size with full power driver unit reflex construction. Excellent for high power paging or medium power public address applications. Provides high sound penetration with exceptional brilliance and clarity. Leave outdoors in any weather, or use indoors. Response 300-13,500 Hz. Swivel U-bracket mtg., 28" wire lead. 8 watts, 8 ohms, 6" D. Shpg. wt. 5 lbs. No. 49A4007. Import Special. **\$16.95**

④ HI-POWER OUTDOOR REFLEX SPEAKER

Rugged, high power trumpet speaker for outdoor public address. Conservatively rated 12 watts. Will handle up to 20 watts of power. Waterproof, rustproof, shockproof. Driver is completely enclosed. Gives crisp, clear, wide-angle response even in high noise level areas. 340-7000 Hz. 5x8" horn, 8" L. 8 ohms. Grey hammertone. U-bracket and wire lead. Shpg. wt. 5 lbs. No. 49A4006. Import Special. **\$18.95**

⑤ 5 3/4"-INCH WEATHERPROOF PAGING SPEAKER

Compact speaker with wide frequency range, 300 to 12,000 Hz. Perfect for Public Address, Citizens Band or music. Will fit behind grille on most cars. Has adjustable mounting bracket. Power capacity 5 watts, 8 ohms impedance. Size 5 3/4" dia. x 3" D. Shpg. wt. 1 1/2 lbs. No. 49A4001. Net Each. **\$9.95**

⑥ MINIATURE WATERPROOF REFLEX SPEAKER

Unlimited in applications. Penetrating quality makes it ideal for CB and Ham mobile work as well as for paging where a high noise level makes the typical cone speaker ineffective. Small size, only 3 1/4" dia. and 2" deep. Yoke type mounting bracket mounts by two holes, allows over 180° vertical movement. Ideal for mounting under dash, or under hood for listening outside of car. Frequency range 400-6500 Hz., handles 3 watts, impedance 8 ohms. Shpg. wt. 1 lb. No. 49A4009. Import Special. **\$ 5.75**

UTAH WEATHERPROOF PATIO SPEAKERS

MOD-8 PATIO SPEAKER

Enjoy your favorite program outdoors. A chemically treated, 8" speaker in a steel case with baked on finish for maximum resistance to weathering. Step-saving volume control. Key-hole slots for easy mounting. Connect the pre-attached 25 foot cable to your Hi-Fi radio or TV. 10 1/2" x 10 1/2" x 5 3/8". 40/15,000 Hz.; 20 watts peak; impedance, 8 ohms. Shpg. wt. 6 1/4 lbs. No. 34A476. Each **\$12.95**

MOD-4 EXTENSION SPEAKER

Compact enough to use almost anywhere, the MOD-4 measures only 4 1/2" x 5 1/2" x 2 3/8". The 4" speaker is treated for moisture resistance and has an Alnico V magnet. Screw terminals for easy wiring, key-hole slots for easy mounting, will stand on shelf. Strong, steel case has baked-on finish. Impedance, 8 ohms; power, 4 1/2 watts program. Shpg. wt. 1 1/4 lbs. No. 34A475. Each **\$6.95**



SPEAKERS & BAFFLES TO FILL EVERY NEED

ARGOS DELUXE EXTENSION SPEAKER



Extend music to the wall of any room. Hangs as easily as a picture. Beautiful walnut woodgrain finish on hardwood. Great sound from an 8" wide range speaker. Built-in volume control. Comes with connectors attached to 20 ft. wire. 10-watt power capacity. 8 ohm impedance. Size 12 1/4" x 9 3/4" x 4 3/4". Shpg. wt. 4 3/4 lbs.
No. 34A499. Model ESP-800. Each

\$18.95

ARGOS PATIO SPEAKER

Enjoy music or ball games outdoors by the patio, garden or pool. Has full fidelity sound, built-in volume control to adjust sound level. Attaches to any amplifier or receiver with 8 ohm output. Completely weatherproof construction. Enclosure of Genuine Redwood for years of use.



No. 34A478. Special Each \$16.95



ARGOS

THINLINE AND PRESTIGE

WALL SPEAKER SYSTEMS

① ARGOS THINLINE BAFFLES

Good looking, excellent quality. Easy to install with the exclusive Argos speedy mounting clip. Has quality 8" speaker with 1 oz. magnet that handles all low-level sound applications, such as TV, radio extensions, PA, background music. 6 watts capacity, 8 ohms voice coil. Baffle is vinyl clad in your choice of walnut or blond wood grain, with cane grill cloth. Size, 9 3/4" H. x 12 1/4" W. x 4 3/8" D. Shpg. wt. 4 1/2 lbs.
No. 34B95. Model WB-108CS. Baffle with Speaker. Net Each \$9.35
No. 34B97. Model WB-108CSV. Baffle with Speaker & Volume Control. Net Each \$11.75
Baffle with Speaker, Volume Control and 70.7 Volt Transformer for use in multiple speaker installations. Shpg. wt. 5 lbs.
No. 34B98. Model WB-108CSVT. Net Each \$14.40

② ARGOS PRESTIGE BAFFLES

The finest you can buy. New heavy duty 8" Jensen speaker with 6 oz. magnet has 15 watt capacity, handles both voice and music superbly. 8 ohms impedance. Fine furniture finishes in Antique Birch or Dusk Walnut. 9 3/4" H. x 11" W. x 5 3/8" D. Shpg. wt. 5 3/4 lbs.
No. 34B99. Model PB508CS. Baffle with Speaker. Net Each \$13.95
No. 34B104. Model PB-508CSL. Baffle, Speaker & L-Pad. Net Each \$16.45
Baffle, Speaker, L-Pad and 70.7 Volt Transformer for use in multiple speaker installations. Shpg. wt. 6 1/4 lbs.
No. 34B105. Model PB508CSLT. Net Each \$19.25

③ ARGOS CORNER BAFFLES

Efficient slant-front corner design aids performance because it aims sound downward and corner location increases effective air mass. Easily installed with Argos speedy mounting clips. Front clips-in. Has 8" Jensen speaker with 6 oz. ceramic magnet, handles 15 watts, 8 ohms impedance. Vinyl clad, in choice of walnut or blond finish. 18" H. x 12 1/2" W. and 6 3/4" D. at top.
No. 34A7004. SCB-2085. Shpg. wt. 6 lbs. Net Each \$15.95

WALL BAFFLES PRICED SO LOW!

DURABLE SPEAKER ENCLOSURES

- Durable walnut furniture finish.
- Beautiful lasting Saran plastic grille.
- Fine acoustic design for improved tone.

\$3.45

Attractive non-resonant solid 3/8" wood baffles with hot-glue locked mitre joints for strength and rigidity. Contrasting non-sag saran plastic grille. Blends easily with any surrounding. Ideal for schools, clubs, hall—any location where good sound distribution is essential.

Stk. No.	Speaker Size	High	Wide	Deep	Wt. Lbs.	Each
34B151	5"	7"	6"	3 1/2"	1 lb.	\$3.45
34B182	6"	9"	7 1/2"	3 3/4"	1 1/4 lb.	3.75
34B159	8"	10 3/4"	10"	5 1/2"	1 1/2 lb.	4.00
34B160	10"	11 3/4"	11 1/2"	6 3/4"	2 1/4 lb.	4.95
34B161	12"	13 1/2"	13 1/2"	7 1/2"	3 lb.	5.30

Lowell

FLUSH MOUNTING WALL AND CEILING BAFFLES AT LOWEST COST EVER!

IN PLASTIC OR METAL



\$1.80



\$3.33



\$1.77

② Beautiful Functional Design. Excellent dispersion of sound. Mounts standard round 8" speakers. Self-tapping screws furnished for speaker mounting. No drilling necessary. Baffle size 12-5/8" O.D. 5-8" D. White color may be painted to match surroundings.

No. 34A7009. White recessed baffle. Net Each \$1.80

③ Beautiful Aluminum Ceiling Baffle. 8-inch speaker mounts to baffle by four screws supplied. Four holes in 1/2" flange area permit mounting baffle to ceiling with wood screws, mollys or toggle bolts. 12 3/8" diameter, ceiling hole size 8 1/2" diameter. Weight 1 lb.

No. 34A75. White Enamel Your Choice 4 @ \$2.93 10 @ \$2.66
No. 34A227. Brushed Aluminum. Ea. \$3.33

Same as above except for 12-inch speaker. No. 34A228. Brushed Aluminum. Ea. \$5.12 4 @ \$4.57 10 @ \$4.10

④ Round 10" Diameter Spun-Aluminum Baffle takes 8" speaker. Mounts directly to ceiling or wall by wood screws, toggle bolts or mollys. Edge has slight bevel. Shpg. wt. 1 lb.
No. 34A76. Net Each \$1.77 4 @ Each \$1.56 10 @ Each \$1.42



⑤ Flush Mounting Wall or Ceiling Baffle. 10" square, mounts 8" speaker. Attractive brushed aluminum with beveled edges. Mounts readily with wood screws, toggle bolts or mollys. Perfect for background music systems. If desired may be painted to match any decor. Shpg. wt. 1 lb.
No. 34A77. Net Each \$3.28 4 @ Each \$2.89 10 @ Each \$2.62

⑥ Similar in appearance to above Grille except is 12" square and has 1/2" lip. Designed to replace a block of acoustical tile. To install, you need only remove block of acoustical tile and replace with this unit. Takes any 8" speaker. Brushed aluminum. Shpg. wt. 1 lb.
No. 34A78. Net Each \$6.35 4 @ Each \$5.59 10 @ Each \$5.08

⑦ NEW 12 3/4" Round White High Impact Styrene Grille. Mounts any 8" speaker by self-tapping screws supplied. May be attached to wall or ceiling by wood screws, toggle bolts or mollys. Can be painted any color desired. Shpg. wt. 12 oz.
No. 34C96. Net Each \$1.91 4 @ Each \$1.68 10 @ Each \$1.53

⑧ 10" Square White Plastic Grille with Concentric Spirals. Designed to add beauty as well as camouflage the speaker. Mounts any 8" speaker. Attaches to wall or ceiling by wood screws, toggle bolts or mollys. Can be painted any color desired. Shpg. wt. 1 lb.
No. 34A80. Net Each \$3.95 4 @ Each \$3.48 10 @ Each \$3.16

HARDWOOD WALL BAFFLES



Acoustically designed solid hardwood speaker baffles combine lasting beauty, heavy duty construction and quality sound. Constructed of 3/8" solid walnut or maple with an attractive textured cane grille cloth. All mounting hardware is included. Shpg. wts. 8" 3 lbs., 12" 6 lbs.

Stk. No.	Speaker Size	Finish	High	Wide	Deep	Net Ea.
34A7005	8"	Walnut	9 3/4"	11 1/8"	5-1/2"	\$9.95
34A7007	12"	Walnut	13 1/2"	17 1/8"	6 1/2"	13.95

2-WIRE SPEAKER CABLE

Bare copper, flexible stranded size 24 parallel conductors; chrome vinyl plastic insulation. Cable diameter .058 x .115". 7/32 stranding
No. 2C33. 25 Ft. .88c 100 Ft. \$1.89 1000 Ft. \$12.95

SAVE \$\$\$ WITH B-A's COMBINATION OFFER

- Big, heavy duty 8" speaker plus handsome brushed aluminum baffle. Ideal for background music. Handles up to 10 watts power. Buy in quantities and save... and make more on installations.
- Comb. Speaker & Baffle. \$7.90
- No. 49A4011
- 4 Combination Deals, Each \$6.90
- 8 Combination Deals, Each \$5.90



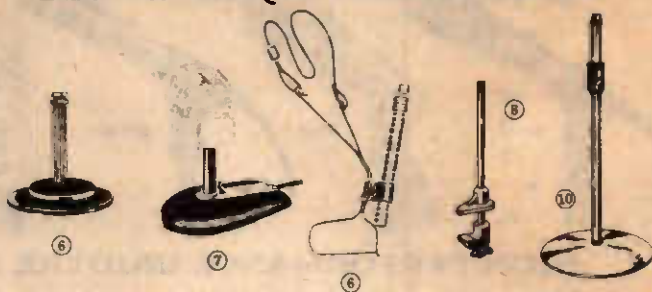
MICROPHONE STANDS AND ACCESSORIES!

MIKE FLOOR STANDS AND BOOMS

DESK & BANQUET MIKE STANDS



5
BOOM
ATTACHMENT
FITS ALL
FLOOR
STANDS



1-B-A LEADER VALUE FLOOR STAND

A top notch quality stand with heavy high gloss double chrome plated brass tube. Easily adjustable from 35" to 63" in height by simple, damage proof one-hand clutch, without mar or scratch on the chrome tube. Weighted 10" dia. base is finished in baked wrinkle enamel, has pads to prevent floor mars. 5/8"-27 threads. Shpg. wt. 10 lbs.

No. 29A7003. Net Each **\$8.91**

8-VALUE! CHROME-BRASS TUBE DESK STAND. Stem 4" high, base 6" dia., padded feet, grey wrinkle finished. 5/8"-27 thread. Wt. 2 lbs.

No. 29A7011. Atlas DS-5. Mfg. List \$4.98. Net Each **\$2.99**

6-LEADER VALUE! ADJUSTABLE DESK STAND. Velvet action clutch adjust height 8" to 13". Chrome brass 3/8"-7/8" tubes. Padded, grey wrinkle 6" base. 3 lbs. Mfg. List \$8.20.

No. 29A7012. Atlas DS-7. Net Each **\$4.92**

ATLAS "VELVET ACTION" MICROPHONE STANDS

No Slipping—No Rattle—No Noise—No Scratching—No Wear
Feature full grip, jam-proof clutch for easy height adjustment, functionally designed "Anfi-tip" bases with chrome cover or scuff-proof baked on grey wrinkle finish, and life-time super chrome plated tube assemblies. MS11C uses 7/8" and 5/8" tube; MS-20 and MS-25, 1 1/8" and 7/8" tube. MS-25 has controlled "air lock" cushion for extra quiet collapse of stand. All have 5/8"-27 top thread. MS-11C, and MS-20 have low profile bases.

Srk. No.	Model	Height	Weight	Base	Net Each
8	29A7006 MS-11C	34" to 62"	13 lbs.	10" Chrome	\$11.58
9	29A7001 MS-20	37" to 66"	15 lbs.	12" Wrinkle	15.00
4	29A7002 MS-25	38" to 67"	22 lbs.	17" Wrinkle	24.00

1-DELUXE "THREE-LEGGED" FLOOR STAND. Heavy cast iron base padded on each leg. 15" dia. Very stable and more convenient to use since base allows "toe room". Demountable 2-section gun metal grey wrinkle base. full chrome stem. 34" to 62" height. Shpg. wt. 9 lbs.
No. 29A7004. Atlas CS-52. Mfg. List \$17.70. Net Each **\$10.62**

5-BOOM ATTACHMENT. An extremely versatile device to center mike over best pickup area. Can be attached to any stand having 5/8"-27 thread. Ideal for piano and similar pickup where obstacles make regular mike stand impossible to use. All swivel parts are die-cast resulting in smooth operation and secure locking positions. 32 inch boom is chrome plated. Wt. 3 1/2 lbs.
No. 29A7009 Atlas BB-1. Mfg. List \$11.53. Net Each **\$6.92**



5/8"-27 MIKE MOUNTING ACCESSORIES ALL CHROME PLATED

Fig.	Stock No.	Description	Net Each
1	29A3004	6" Flexible Goose Neck	\$1.76
2	29A3005	13" Flexible Goose Neck	2.37
3	29A3006	19" Flexible Goose Neck	3.35
4	29A3007	4 1/2" Swivel Adaptor	4.47
5	29A3008	Snap-on Mike to Stand Adaptor	2.66
6	29A3001	Lock on Mike-to-stand Adaptor with thumb release	3.15
7	29A3010	Cable Hanger for stand	2.43
8	29A3011	Male Flange 1 1/4" diameter	.92
9	29A3012	Female Flange 1 1/4" diameter	.90
10	29A3013	Threaded Nipple 3/4" L.	.50
11	29A3014	Female Threaded Coupling	.68
12	29A3015	3" L. Extension Tube	.83
13	29A3016	6" L. Extension Tube	.83
14	29A3017	Right Angle Bend	1.40

HIGH QUALITY MUSIC PICK-UPS

CRYSTAL CONTACT MIKE
Provides brilliant tone. For guitars, pianos, etc. HI-impedance type. Has 6' shielded cable, brass phone plug. Wt. 1 lb. 40A500. Import. **\$2.99**
Special

DYNAMIC With Tone & Volume Controls
Use with metallic stringed instruments. With 8' cable and plug. Bright chrome plate. Import. Wt. 1 1/2 lbs. 40A501. Special. **\$7.95**

FOR ELECTRIC GUITARS



RETRACTABLE SHIELDED CABLE
Extends to 15 feet, retracts to 3 feet. Extremely flexible. Both ends angle phone plugs. Shpg. wt. 1 lb. No. 33A6584. Special Each **\$2.19**
New 25 ft. shielded retractable cord. Retracts to 4 feet. Plugs as above. Wt. 1 lb. No. 33A6596. Special Each **\$3.29**

7-"STREAMLINED" DESK STAND. Features concealed rear cable exit and functional design. Perfect for any mike. Gun metal and chrome with rubber bumpers. 5/8"-27 thread. Wt. 2 lbs.
No. 29A7014. Atlas DS-10. Mfg. List \$8.98. Net Each **\$5.39**

8-ATLAS "CHESTY" MIKE SUPPORT. Hangs around neck on lavalier cord. Wire frame and flexible gooseneck hold mike—no hands!
No. 29A3002. Atlas NS-1. Mfg. List \$8.75. Net Each **\$5.25**

9-CLAMP-ON BRACKET. Holds securely on flat surface 2" thick or less. Chrome 6" long tube. 3/8"-27 thread. Wt. 2 lbs.
No. 29A3018. Atlas BC-1. Mfg. List \$5.68. Net Each **\$3.41**

10-NEW DELUXE BANQUET STAND. Adjustable height 14 1/2" to 26". Super chrome 5/8"-7/8" brass tubes. New full chrome low silhouette base of trim modern design. Wt. 5 1/2 lbs.
No. 29A7005. Atlas TS-8. Mfg. List \$15.25. Net Each **\$9.15**

MICROPHONE EXTENSION CABLE KIT WITH TWO ADAPTORS



25 feet of heavy duty shielded microphone cable with standard microphone connectors on each end. Adaptors convert to 1/4" phone plug or 1/4" phone jack. Makes any PA system more flexible. Big Import Saving! Wt. 1 lb.
No. 33A6585. Special Each **\$2.95**

SWITCHCRAFT TRANSISTORIZED MIXERS

MIXES MICROPHONES OR PHONO INPUTS



4-channel high impedance stereo-monaural mixer featuring built-in transistor amplifier in each of two stereo channels with individual gain controls on each input. "Stereo-Mono" switch allows all 4 inputs to be used monaurally. Amplifier powered by 9 volt battery (included) overcomes usual loss encountered in resistance type mixers and provides a 6 db gain. Low noise level, low distortion, frequency response 20 to 20,000 Hz. Inputs are phone jacks, phono jacks output. Modern styling with tan finish, brown knobs with gold metallic inserts. Size 6" L. x 2" H. x 3" D. Rubber mounting feet. Shpg. wt. 3 lbs. No. 29A115.

Model 306TR. Stereo-Monaural Mixer. Net Each **\$24.00**

Transistorized Monaural Mixer. Same as above except single transistor amplifier and 4 inputs for monaural use only.

No. 29A3019. Model 301TR. Monaural Mixer. Net Each **\$19.50**

SWITCHCRAFT STUDIO "MIX-MASTER"

\$87.00



SWITCHCRAFT 4-CHANNEL MIXMASTER MIXER/AMPLIFIER

Solid state, stereo/monaural mixer amplifiers designed for remote or studio professional use or home high fidelity. All input-output jacks are standard 1/4" dia. phone jacks. Use mikes, magnetic phono, tuners or tape recorders as program source.

Specifications: Freq. resp. ±0.5 db, 20 Hz to 20KHz with equalization switched "out". Output: up to 2 volts RMS (up to 4 volts RMS Model 308TR). Distortion: 1% max. (0.5% typical). Signal to noise ratio: 60 db, referred to 1 mv input. Recommended load: 50K ohms or greater (600 ohms or greater Model 308TR). Low level inputs: Four. Voltage gain: 60 db. Overload: greater than 100 mv. Magnetic phono inputs: Two. Voltage gain: 40 db at 1KHz. Auxiliary inputs: Four. Voltage gain: 20 db. Overload: greater than 10 volts. Size: 3 1/2" H. X 12" W. X 7 1/4" D.

Model 307TR. Powered by 2 "D" cell batteries. Wt. 4 1/2 lbs. **\$87.00**

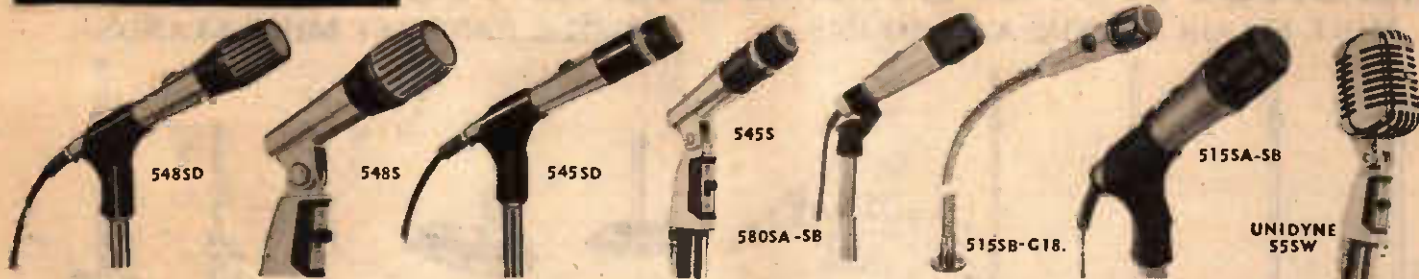
No. 29A3003. Net Each

Model 308TR. Operates on 117 volts AC. Wt. 5 1/2 lbs. **\$96.00**

No. 29A3036. Net Each

SHURE

FINE QUALITY MICROPHONES



HIGH PERFORMANCE UNIDYNE CARDIOID DYNAMIC MICROPHONES

Shure Cardioid microphones are uni-directional. They pick up sound mainly from the front, while suppressing sound and noise coming from the back. Allows user to work farther away from microphone and greatly reduces

MODEL 548SD UNIDYNE IV

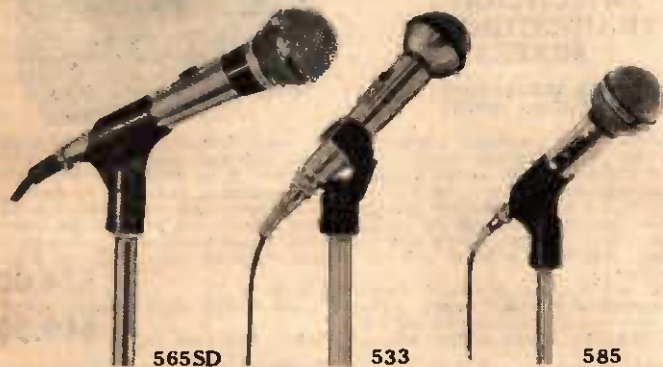
The ultimate for PA entertainment. For hand or stand usage. Now featuring a long life magnetic reed "On-Off" switch incorporated into the microphone case. An ultra high quality, super rugged microphone with an unusually effective cardioid pickup pattern. Response: 40-15,000 Hz. Dual impedance, high and low, Hi-Z output —55 db; Lo-Z —57 db. With 15 ft. 2-conductor shielded cable. Includes swivel adapter. Shpg. wt. 3 lbs.

- No. 29A672. Model 548SD. Net Each **\$72.00**
- No. 29A705. Model 548SD-CN. Same as above with prewired male three-pin audio connector at amplifier end. Net Each **\$75.00**
- No. 29A612. Model 548. Same as above but with no on-off switch. Net Each **\$69.00**
- No. 29A613. Model 548S. Has switch on chrome swivel mount. Not for hand-held use. Shpg. wt. 3 lbs. Net Each **\$72.00**

MODEL 545SD UNIDYNE III

Approaches the theoretical ideal cardioid pickup pattern at all frequencies, providing extended range music and speech pickup for highest quality professional PA and recording. It now features a long life reed "On-Off" switch incorporated into the microphone case. Response 50-15,000 Hz. Dual high or low impedance. High impedance output —55 db; low impedance —57 db. 15 ft. detachable cable. Swivel stand adapter. Shpg. wt. 3 lbs.

- No. 29A673. Net Each **\$61.20**
- No. 29A704. Model 545SD-CN. Same as above with prewired male three-pin audio connection at amplifier end. Net Each **\$64.20**
- No. 29A208. Model 545. Same as above but with no On-Off switch and Amphenol type connectors. Net Each **\$57.60**
- No. 29B235. Model 545S. Same as Model 545 but On-Off switch is built into swivel mount. Net Each **\$61.20**
- No. 29A366. 533B. Black Desk Stand. Net Each **\$10.50**



MODEL 565SD UNISPHERE I

Feedback-free, dynamic cardioid ball-type microphone for quality hi-fi recording and PA use, indoors or out. Features a long life magnetic reed "On-Off" switch incorporated into the microphone case. Wire mesh screen protects from breath blasts and wind. Response: 50-15,000 Hz. Outputs: 50-250 ohms. —57 db, Hi-Z —54.5 db. 15 ft. detachable cable. Swivel stand adapter. Chrome and black. 6 x 2". Shpg. wt. 2 1/2 lbs.

- No. 29A674. Net Each **\$67.80**
- No. 29B221. Model 565. Same as above but with no "On-Off" switch and Amphenol type connectors. Swivel adapter. Wt. 2 1/2 lbs. Net Each **\$64.80**

MODEL 585 UNISPHERE A SERIES AND MODEL 533 SPHER-O-DYNE SERIES

These rugged dynamic microphones are recommended for entertainers, interviewers, singing groups, etc. Spherical screen prevents pop, blast and wind noise. Adaptable to hand or stand use. 533 and 585 have On-Off switch and 15 ft. detachable cable. Satin chrome finish, black trim and black swivel 5/8"-27 stand adapter. Low impedance types are recommended where long microphone cables are to be used. Average size 6 1/2", approximately 2" dia. Wt. 2 lbs.

Stock No.	Shure Type	Pickup Pattern	Impedance Ohms	Response Hz.	Output Level	Net Each
29B217	585SA	Cardioid	High	50-13,000	—59 db.	\$45.00
29B218	585SB	Cardioid	Low	50-13,000	—58 db.	42.00
29B215	533SA	Omnidirectional	High	40-11,000	—55 db.	34.20
29B216	533SB	Omnidirectional	Low	40-11,000	—55.5 db.	34.20

"room" noises, audience noises and reverberation. Provides 70% reduction of background sound and noise over the entire usable audio spectrum.

MODEL 580SA-SB UNIDYNE

For better PA entertainment and improved home recording. Slips out of stand swivel mount for hand-held use. Response 50-11,000 Hz. Hi-Z output, —56.5 db.; Low-Z, —57 db. Satin chrome. Size: 6 3/8 x 1 3/4" dia. 15 ft. attached cable and switch. Wt. 3 lbs.

- No. 29B214. Model 580SA. High Impedance. Net Each **\$42.00**

MODEL 515SA-SB UNIDYNE "B"

Lowest cost Unidyne ever! Excellent choice for PA where budget is prime consideration. Has feedback suppression and symmetrical cardioid pattern features that have made Unidyne world famous. For stand or hand. Size: 6 7/8 x 1 1/2" dia. With 15 ft. attached cable, built-in switch and swivel adapter. Response: 80-13,000 Hz. Hi-Z output —58 db. Lo-Z —59.5 db. Shpg. wt. 2 lbs.

- No. 29A615. Model 515SA. High Impedance. Net Each **\$27.00**
- No. 29A616. Model 515SB. Low Impedance. Net Each **\$27.00**
- No. 29A675. Same as 515SB above with integral 18" gooseneck and mounting flange. Grip-to-talk relay controlling leaf switch. For permanent mounting. Wt. 3 lbs. Model 515SB-C18. Net Each **\$31.80**

55 SERIES UNIDYNE II

Famous for dependable indoor and outdoor service in regular or rugged duty. Response 50-15,000 Hz. Output —55 db. Selectable 35-50, 150-250 or high impedance. Tilt head, detachable 18 ft. cable. Size: 7 3/8 x 2 1/8 x 3 1/8" D. Wt. 3 lbs.

- No. 29A207. Satin Chrome Model 55S. Net Each **\$57.00**
- No. 29B241. Satin Chrome Model 55SW, with Switch. Net Each **\$58.80**



SHURE BALL-TYPE MICROPHONES

588 Series. Feedback-free cardioid pickup pattern, shock-mounted cartridge, wind, pop and blast filters, lockable On-Off switch, broadcast-type Cannon connector, 15 ft. single conductor detachable cable. Includes swivel stand adaptor. 6 1/2 x 2" dia. Wt. 1 1/2 lbs. *588SAC has prewired 1/4" phone plug on cable end; others, less plug.

579SB. Extremely rugged. Ideal choice for high quality PA, entertaining, recording and studio applications. 20 ft. 2-cond. detachable cable, Cannon connector, lockable On-Off switch.

Stock No.	Shure Type	Pickup Pattern	Imped. Ohms	Response Hz	Output Level	Net Each
29A633	588SA	Cardioid	High	80-13,000	—59.5 db.	\$39.00
29A635	588SB	Cardioid	Low	80-13,000	—59.5 db.	39.00
29A634	*588SAC	Cardioid	High	80-13,000	—59.5 db.	40.20
29A636	579SB	Omnidirectional	Low	50-15,000	—59 db.	45.00

SHURE LAVALIER MICROPHONES

Rugged dynamic mikes having frequency response specially engineered for lavalier use. 560 size 3 1/8" x 1 1/8" D. high or low imp. 5705 size 3/4" dia., has on-off switch, response 50-12,000 Hz. 50-250 ohm imp. Attached light weight cables. Shpg. wt. 1 1/2 lbs.

Stock No.	Shure No.	Output Level	Cable Length	Net Each
29B268	560	—56.5 db.	18 ft.	\$29.40
29B269	5705	—59 db.	30 Ft.	72.00

CARDIOID DYNAMIC COMMUNICATIONS MICROPHONE

SHURE MODEL 522 UNI-COM

Problem-solving paging and communications microphone. Reduces noise pickup. Provides utmost voice intelligibility. Adjustable 9 3/4" to 12 1/2" H. Tough Armo-Dur base and case. Dual high or low impedance. Locking or non-locking push bar for relay and microphone. 7 ft. cord cable. Shpg. wt. 2 lbs.

- No. 29A618. Net Each **\$42.60**



\$42.60

- Noise Suppressing
- Uni-Directional
- Press-To-Talk
- Adjustable Height

SHURE MIKE MIXERS, TRANSFORMERS, ACCESSORIES

SHURE TRANSFORMERS



A high quality impedance matching transformer which makes it possible to convert a low impedance microphone to a high impedance amplifier input. Solves problems of excessive high frequency loss and objectionable hum when long lengths of cable are used. Transformer size: 3/4" dia. X 2 1/2" long. Can also be used to match high impedance microphone to low impedance inputs. Will match impedance—from high to low or low to high. May be changed to accept 150-250 ohm line, or 35-50 ohm line for conversion to high impedance.

- Model A95A.** XL-3-12 Cannon type or Switchcraft A3M input and MCIM high impedance output. Mating plug supplied. No. 29A361. Net Each \$12.60
- Model A95P.** XL-3-12 Cannon type or Switchcraft A3M input with mating connector supplied. High impedance output terminates in permanently attached phone plug with locking ring. No. 29A3035. Net Each \$13.80
- A95F Transformer.** Same as Model A95A above except input is XL-3-11 Cannon type or Switchcraft A3F. No. 29A3041. Shpg. wt. 9 ozs. Net Each \$14.40
- A95FP Transformer.** Same as Model A95P above except input is XL-3-11 Cannon type or Switchcraft A3F. No. 29A3042. Shpg. wt. 10 ozs. Net Each \$15.60

SHURE IN-LINE MICROPHONE ATTENUATORS, EQUALIZERS AND ADAPTERS

INPUTS ARE FEMALE CANNON XL TYPE, OUTPUTS ARE MALE CANNON XL TYPE



- Model A15A Microphone Attenuator.** Provides 15 db attenuation (150 ohms). No. 29A3043. Shpg. wt. 1 lb. Net Each \$15.00
- Model A15PR Phase Reverser.** Reverses phase of any balanced line. No. 29A3044. Shpg. wt. 1 lb. Net Each \$15.00
- Model A15HP High Pass Filter.** Reduces low frequency noise. No. 29A3045. Shpg. wt. 1 lb. Net Each \$15.00
- Model A15LP Low Pass Filter.** Reduces high frequency noise. No. 29A3046. Shpg. wt. 1 lb. Net Each \$15.00
- Model A15PA Presence Adapter.** Increases presence range of low impedance microphones. No. 29A3047. Shpg. wt. 1 lb. Net Each \$15.00
- Model A15RS Response Shaper.** Reduces sibilant sounds. No. 29A3048. Shpg. wt. 1 lb. Net Each \$15.00
- Model A15LA Line Input Adapter.** Converts low impedance microphone input to high-Z, or 600 ohms line input. No. 29A3049. Shpg. wt. 1 lb. Net Each \$15.00

NEW M62V AUDIO LEVEL CONTROLLER



Now with a variable input level control that makes it possible to use any input signal . . . even preamplified or phone line signals . . . in addition to regular microphone level signals. Also has a new aux. high level output which allows you to drive any high impedance amp, mixer or recorder requiring one volt or less (in addition to regular hi or lo impedance mic. level output).

Insert between Amplifier and any input. This transistorized variable input level controlling device will prevent fadeout, roller coaster sound level or "close up" blasting. The M62 will permit the microphone to be used at varying distance without changing the output volume. It will upgrade tape recordings by preventing distortion and overloading of the tape recorder. Also prevents "ear splitting" feedback from becoming excessively loud. Distance selector switch can be set at 6", 12" or 18" for best pickup area to maintain an output level from the PA system that is always smooth, intelligible, and comfortable to the ear regardless of shouting or overly close talking. Battery operated (9V. battery included). Frequency response 20 to 20,000 Hz. Requires one each XLR-3-11C and XLR-3-12C or Switchcraft A3F and A3M. Size 2 1/2" x 1 1/8" x 5 1/4". Wt. 2 3/4 lbs. No. 29A3034. Net Each \$60.00

SHURE MODEL M63 AUDIO CONTROL CENTER



Designed to give maximum flexibility in control of volume, bass response, treble response, high and low frequency roll-off. Works ideally with M68 series of mixers. Provides the means to shape response to equalize sound systems for correction of room acoustics, reduce feedback and room noise. All inputs are RCA phono jacks; mic. level output takes XLR-3-11C or Switchcraft A3F mating connector. Features: ballistically correct VU meter, 5 outputs, 600 ohm balanced line, Hi-Z high level, Hi-Z mike level, Lo-Z mike level and headphone jack. Two inputs: both accept mixer, tape recorder, tuner or phono (using Shure A68P phono preamp). Continuously variable 6 db per octave Hi-Pass and Lo-Pass filters. Bass and treble tone controls. Either 105-130 50/60 Hz or 30 V.D.C. power. Size: 2 1/2" X 1 1/8" X 5 3/4". Shpg. wt. 4 lbs. No. 29A3050. Net Each \$96.00

SHURE MICROPHONE MIXERS



M68 SERIES MICROPHONE MIXERS

General specifications: 5 channel, completely transistorized, portable microphone mixer for use with public address, and tape recorders. Total harmonic distortion less than 1%. Accommodates up to 4 high or low impedance microphones in any combination. Does not require line transformers. Has 1 high level, high impedance input for tape, tuner or accessories. Individual volume control on each channel plus master gain control. Output is either high or low impedance. Low impedance output may be balanced or unbalanced permitting long cable to power amplifier input. Also has high impedance auxiliary output for tape recorder. Two or more mixers may be interconnected. For example two will provide inputs for eight microphones and one auxiliary. For 105-130 V. 60 Hz. Size 2 1/2" x 1 1/8" x 5 1/4". Wt. 4 lbs. No. 29A3033. Model M68. With male Cannon-type inputs. Net Each \$84.00 (Use XLR-3-11C/A3F Mating Connector). Net Each \$90.00 (Use XLR-3-12C/A3M Mating Connector). Net Each \$90.00

MODEL M68P MIKE MIXER With standard 1/4" phone jack input receptacles for 4 high impedance microphones and a fifth phono plug input for tape, tuners, etc. Otherwise same as M68 above. No. 29A3038. Net Each \$69.00

MODEL M68RM REVERBERATION MIXER. Use XLR-3-12C or Switchcraft A3M connector. Has built-in adjustable intensity reverb for special effects. Response 40-20,000 Hz. Four inputs and jack for remote reverb. No. 29A3039. Each \$117.00

NEW MODEL M688 STEREO MIKE MIXER



Designed to be used with stereo tape recorders and sound reinforcement systems. It has four dual impedance microphone inputs: three switchable to either left or right channel and the fourth with a pan control (any position between L and R). Two aux. inputs. Individual volume controls plus a stereo master volume control. Mono/stereo switch. Stereo high impedance, hi level outputs, plus L and R mic. level output, hi or lo impedance, 120V. AC or 30V. DC operation. (Use XLR-3-12 Type or Switchcraft A3M mating connectors for mic. inputs). Size 2-1/2" X 11-3/8" X 7". Shpg. wt. 7 lbs. No. 29A3054. Each \$114.00

SHURE M67 PROFESSIONAL MICROPHONE MIXER



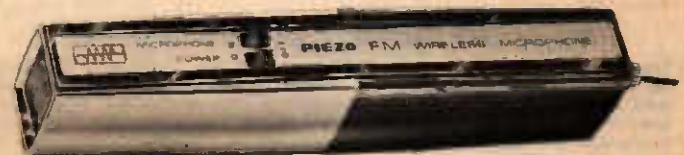
Compact, lightweight microphone mixer/remote amplifier for studio and remote broadcasting, recording and sound reinforcement. Four low impedance balanced microphone inputs and one line input. Built-in tone oscillator for ringing up line. Response ±2 db from 20 to 20,000 Hz. Gain 90 db. 150 ohm microphone into 600 ohm line. Hum and noise -125 db. Has illuminated VU meter calibrated +4 and +10 dbm out, two-level headphone monitor jack. Low noise AC or battery operation. Size 11-3/8 x 7-1/2 x 2-1/2". Wt. 5-1/2 lbs. Use XLR-3-12C or Switchcraft A3M for mic. inputs; and XL-3-11C or Switchcraft A3F for mic. output. No. 29A3040. Net Each \$162.00

NEW MODEL M675 BROADCAST PRODUCTION MASTER

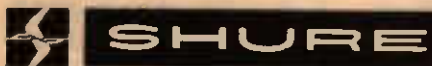


When used with the Shure Model M67 (above) provides four additional channels for magnetic phono and line inputs with cue provision for pre-viewing the material supplied to these added inputs. The M67-M675 combination makes a compact console, permitting mixing of four microphones, four line inputs, and two turntables. (For mic. inputs use XLR-3-12C or Switchcraft A3M mating connectors). Battery or M67 powered. Stacking hardware included. Frequency response: 30 to 20,000 Hz ± 2 db. Distortion: less than 1% THD. Size 2-1/2" X 11-3/8" X 7-1/2". wt. 8 lbs. No. 29A3055. Each \$150.00

MURA WX172 WIRELESS MICROPHONE

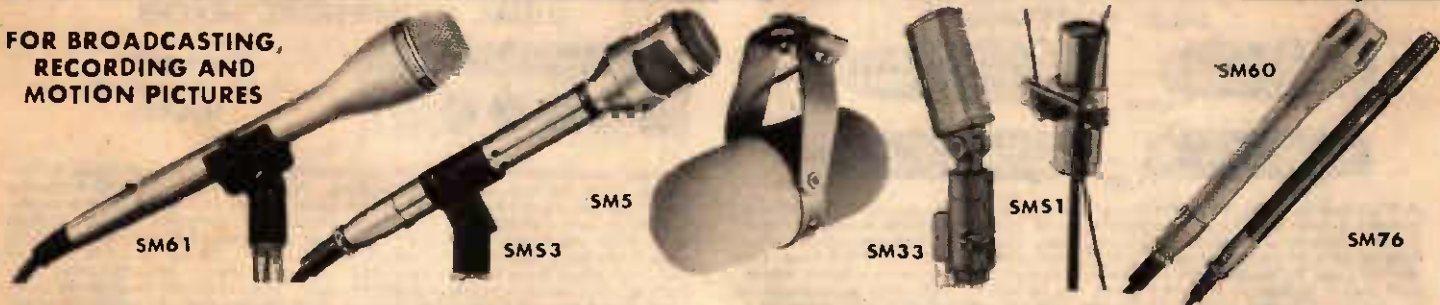


FCC Approved. Transmits through any FM tuner or radio. Static-free performance. Solid state circuit. Fully shielded. Range 88 MHz to 106 MHz. Will not drift. Compact 6 1/4 x 1 1/2 x 1". Lightweight 5 3/4 oz. net. Shpg. wt. 1 1/2 lbs. Uses 9 volt transistor battery (not supplied). Mura Model WX172. No. 29A692. Each \$24.88
No. 21B141. 9 Volt Battery. Each 54¢



PROFESSIONAL MICROPHONES

FOR BROADCASTING,
RECORDING AND
MOTION PICTURES



SM61 OMNIDIRECTIONAL DYNAMIC MICROPHONE

Virtually eliminates cable, handling and mechanical shock noise. Super efficient "Blast Barrier" and wind filters cut breath and wind noise to insignificant levels. Surprisingly rugged, ideal for location recording, sports coverage and remote broadcasts. 40-15,000 Hz. frequency response. Omnidirectional pickup. 150 ohm impedance. With 20 ft. cable. Non-reflecting matte metallic finish. 7 3/8" long. Net wt. 5.6 oz. Shpg. wt. 2 lbs.

No. 29A700. Each \$66.00

SM53 UNIDIRECTIONAL DYNAMIC MICROPHONE

Solve troublesome broadcast, recording and sound reinforcement assignments. Wide-range, natural, flat response. Cardioid pattern uniform at all frequencies. Very effective shock mount significantly reduces stand, cable and handling noise. Built-in hum rejection system. Integral "pop" filter limits explosive breath sounds and wind noise. Extremely rugged. 70-16,000 Hz. frequency response. Matches any input from 50 to 150 ohms impedance. Output level -58.5 db. With 20 ft. cable. Non-glare matte metallic finish. Fits 5/8"-27 stand. 7-3/16" long X 1 1/2" dia. Net wt. 8 oz. Shpg. wt. 2 lbs.

No. 29A699. Each \$153.00

SM54 Same as SMS3 except for addition of A53G grille assembly which suppresses wind noise.

No. 29A698. Each \$162.00

SMS UNIDIRECTIONAL DYNAMIC BOOM MICROPHONE

Smooth, natural response for dialogue, vocal, music. Unusually effective cardioid pattern is uniform with frequency and completely symmetrical about the axis. Assures excellent rejection of unwanted sound. Maximum wind noise suppression. For 5/16" or smaller boom studs; 5/8"-27 stand thread adaptor included. 50-15,000 Hz. frequency response. Output level -57 db. Non-glare gray finish. No cable supplied. Male 3-pin receptacle on mike. 9-29/32" long X 5-1/32" dia. Net wt. 1 lb. 15 oz. Shpg. wt. 3 lbs.

No. 29A706. SMSA - 50 Ohm Impedance
No. 29A707. SMSB - 150 Ohm Impedance
Your Choice Each \$255.00

MODEL SM33 SUPER CARDIOID RIBBON MICROPHONE

Imparts a pleasantly warm characteristic to the speaking voice... a feature which is especially desirable for announcing and narration applications. Polar pattern is somewhat more directional than a conventional cardioid. Smooth, wide range response. Unusually rugged. Two-position selector switch tailors bass frequency response. Self-adjusting lifetime swivel-shock mount permits tilting head. 40-15,000 Hz. freq. resp. 50 and 150 ohms dual impedance. Output level -58 db. Textured non-glare dark gray finish. With 20 ft. cable. Fits 5/8"-27 stand. 4-1/16" long X 1 1/4" wide. Net wt. 1 lb. 10 oz.

No. 29A708 Shpg. wt. 3 lbs. Each \$150.00

MODEL SMS1 DYNAMIC LAVALIER MICROPHONE

Especially designed for radio, TV, motion-picture or applications calling for a small wearable microphone. Smooth exterior and recessed grille minimize clothing noise. Non-detachable 30 ft. two-conductor rubber cable. 70-12,000 Hz. frequency response. Omnidirectional polar pattern. Matches any input from 50 to 250 ohms impedance. Output level -60.5. Non-glare dark gray. 2 1/2" long X 13/16" dia. Net wt. 2 oz. Shpg. wt. 1 lb.

No. 29A711. Each \$72.00

SM60 OMNIDIRECTIONAL DYNAMIC MICROPHONE

Unique combination of beauty, strength, performance and economy. It has smooth, natural, wide-range response for both voice and music. Built-in breath and pop filter minimizes breath and wind noise. Exceptional ruggedness. Can be used on stand or instantly removed from stand for in-the-hand use. 45-15,000 Hz. frequency response. Matches any input from 50 to 250 ohms impedance. Output level -60.5 db. Non-glare matte metallic finish. With 20 ft. cable. Fits 5/8"-27 stand. 6-7/32" long X 1 1/4" dia. Net wt. 6 oz.

No. 29A709 Shpg. wt. 1 lb. Each \$49.20

SM76 3/4" DIA. OMNIDIRECTIONAL DYNAMIC MIKE

Extremely wide, peak-free, smooth response together with slim styling. Recommended for exacting applications in which a very flat, wide-range microphone is required. Inconspicuous, slender steel case may be hand-held or used on a stand, indoors or out. Will withstand severe use. 45-20,000 Hz. frequency response. 50 and 150 ohms dual impedance. Output level -60 db. Textured non-glare dark gray finish. With 20 ft. cable. Fits 5/8"-27 stand. 8 1/4" long X 3/4" dia. Net Wt. 7 oz. Shpg. Wt. 2 lbs.

No. 29A710. Each \$120.00

Electro-Voice

MICROPHONES
FOR EVERY PURPOSE



MODEL 664 "VARIABLE D" DYNAMIC CARDIOID MIKE

Especially recommended for PA service; churches, schools, clubs, recording, communications—truly the work horse of the microphone field.

Has Cardioid directional pattern at all frequencies. Built to take rough treatment, yet a superb performer sounding smooth and natural on voice and music. Response 60-15,000 Hz. —58 db output. Has on-off switch, 15 ft. detachable cable. High impedance or 150 ohm low impedance by moving one wire in connector. 1 7/8" max. dia. 7 1/8" lg. Net Wt. 26 ozs. Shpg. wt. 4 lbs. Mfg. List \$95.00

No. 29A200. Satin Chrome Each \$57.00

Matching Desk Stands Model 418 for 664, 644, 623 and 630
No. 29A408. Model 418. Grey. Net Each \$9.30

MODEL 1751 ELECTRET CONDENSER MICROPHONE

Superior performance at surprisingly low cost. Suitable for professional recording and high quality PA sound. Cardioid pickup pattern reduces sensitivity from sides and rear. Rugged aluminum case with permanent anodized beige finish. Low handling or shock noise. Built-in breath filter. Internal impedance matching circuit uses AA-size battery (not furnished). 60 to 15,000 Hz. Frequency response. Output level —43 db. Because of high output, may be used with low, medium, or high impedance inputs. Shpg. wt. 2 lbs.

No. 29A1427. Each \$75.00

No. 21B78. "AA" Cell Battery for above. Each 19¢

Model 1750. Similar in appearance to 1751 except 80 to 13,000 Hz. frequency response. For less exacting applications.

No. 29A1428 Each \$45.00

MODEL 635A BROADCAST DYNAMIC MIKE

Omnidirectional pickup. Perfect for hand and stand use. Effective four stage pop and blast filter. Response 80 to 13,000 Hz. Output -55 db. Low impedance. 18 ft. cable, stand adaptor and lavalier cord supplied. 6" long X 1-3/8" dia. with 3/4" shank. Net wt. 6 ozs. Shpg. wt. 2 1/2 lbs.

No. 29A641. Mfg. List \$94.50. Net Each \$56.70

MODEL 676 CARDIOID - CONTINUOUSLY VARIABLE

Rejects side and rear pickup at all frequencies. Has 3-position rumble filter. Finest choice for professional PA, clubs, churches and recording. Response 60-15,000 Hz. Output —57 db. Impedance Hi-Z and 150 ohms. Detachable 15 ft. cable, swivel 3/8"-27 slip-in adaptor allowing hand or stand use. Satin chrome finish. Net Wt. 12 ozs. Shpg. wt. 3 lbs. List \$102.25

No. 29B256. Satin Chrome. Each \$61.35

MODEL 627A CARDIOID FOR HAND AND STAND

A true Cardioid dynamic microphone. Features single direction pickup. Has fast action adaptor for stand. Made for entertainers who like to work "close up." Has smooth, peak-free response, shaped for presence. Emphasizes low frequencies when used close up. Has built-in pop and dust filter, on/off switch, satin chrome finish. Response 60-13,000 Hz. Output —58 db. Size 6 1/2", 1 5/8" dia. 3/4" shank. Net Wt. 7 1/2 ozs. Shpg. wt. 3 lbs. Complete with 16 ft. detachable cable, no plug. Mfg. List \$64.50.

No. 29B203—High Impedance Model 627A. EACH \$38.70

MODEL 644 SOUND SPOT DYNAMIC

Most directional PA microphone yet! Has farthest front pickup, better than 2.5 times that of non-directional types, yet works close-up, too. Range 40-10,000 Hz. High output, -53 db. Dual high or low impedance. Satin chrome. 3/4" dia., 16" long extension tube. Rear dia. 2-5/16". 15 ft. detachable cable. Off-on switch, swivel stand mounting. Net wt. 41 ozs. Shpg. wt. 5 lbs. Desk stand Model 418 above.

No. 29A198. Mfg. List \$130.25 Net Each \$78.15

TURNER MICROPHONES



MODEL TC10

500

TURNER UNI-DIRECTIONAL DYNAMIC MIKES

MODEL TC10. Professional recording, broadcast, and public address microphone, extremely flat response, excellent front to back discrimination. Multiport system greatly improves low frequency response. Shock and handling noises virtually eliminated. Particularly favorable for use in close-talk broadcast and entertainment applications. Low impedance 150 ohm. Frequency response 50-15000 Hz. Output -55 db. 20 ft. detachable cable with Switchcraft A3F connector. Anodized desert gold finish. Specific response curve with each mike. With metal carrying case. Wt. 7 oz.

No. 29A701. Mfg. list \$225.00 Each **\$135.00**

MODEL TC115. Similar to TC10 above. Frequency response 50-14000 Hz. Sea-gray anodized finish. No carrying case or response curve included. No. 29A702. Mfg. list \$130.00 Each **\$78.00**

MODEL TC125. High impedance version of TC115 above. Output -56 db. Single conductor 20 ft. cable. No. 29A703. Mfg. list \$130.00 Each **\$78.00**

MODEL S-500 CARDIOID. Outstanding performer everywhere because of technical uniformity, near perfect cardioid pickup and frequency response. "Live" at front, "dead" to sounds from rear, allows close up or moving about with great freedom. Cures feedback problems. Response 40-15,000 Hz. High or low impedance selection. Output, high -55 db; 150 ohms -79 db. Professional Canon XLR 4 pin connector, 20 ft. cable. Very outstanding mechanical design and appearance. Shock mounted for severe service. Withstands extremes of temperature and humidity. Slips from 5/8"-27 tilt stand adaptor for hand held use. Satin chrome, 1-17/32 dia., 6-13/16" L. Stand adaptor is supplied. Shpg. wt. 3 lbs. No. 29B319 Mfg. List \$105.00 Model S-500 with On/Off Switch. Net Each **\$63.00**

GOLD FINISHED MODEL 500
Very popular for church installations. Specifications as above. No. 29B303. \$500G. Mfg. List \$120.00. Net Each **\$72.00**
No. 29B300. Chrome C-7 Stand. Net Each **\$9.00**
No. 29B301. Gold C-7 Stand. Net Each **\$9.60**

TURNER BALLADIER MUSICIAN'S CARDIOID DYNAMIC MICROPHONES WITH CARRYING CASES



MODEL 866

MODEL 766

20-ft. cable with phone plug for direct plug-in to any guitar amplifier. Rugged stand adaptor for in-hand or on-stand use. Built-in blast filters to eliminate "pop", "howl", or wind noise. All are high impedance. Shpg. wt. 4 lbs.

MODEL 866. Cardioid performance at a low price. Ball screen styling. 100-13,000 Hz frequency response. Permanently attached cable. No on-off switch. Mfg. list \$40.00. No. 29A667. Each **\$24.00**

MODEL 766. Ball screen styling, excellent cardioid performance. 40-15,000 Hz frequency range. Heavy duty chrome finish. Removable 20 ft. cable, on-off switch. Mfg. list \$75.00. No. 29A668. Each **\$45.00**

TURNER PROFESSIONAL LAVALIER

MODEL 35. Omni-directional, very high quality dynamic microphone for professional PA or recording applications. Features small size, 1/4" dia., 3" long. Wt. 12 oz. with attached 25 ft. 3-conductor cable. High or 150 ohm low impedance selected at end of cable. Response: 70-10,000 Hz. Output -61 db. Desert Gold finished. With Lavalier Neck Cord. Shpg. wt. 1 1/2 lbs. No. 29A626. Mfg. List \$70.00 Each **\$42.00**

TURNER MICROPHONE CARTRIDGES

Stk. No.	Turner Type	Fits Mikes	Net Each
29A383	13C Dynamic	9D, 33D, 2" D. x 7/8"	\$7.20
29B292	21A Crystal	350X, 254X, 1 1/8" D. x 1/2"	6.00
29B293	21C Ceramic	350C, 254C, 1 1/8" D. x 1/2"	6.00



SIDEKICK 100
TRANSISTORIZED
"+3"

TRANSISTORIZED
"+2"

254
454

TURNER COMMUNICATIONS MICROPHONES

SIDEKICK 100. Specifically designed for use with all transistorized and 5S8 CB transceivers. Its IC amplifier provides a perfect impedance match for transistorized transceivers; its dynamic interior is extremely rugged and unaffected by temperature and humidity. Jet black finish with polished chrome head. 300-3,500 Hz frequency response. Volume control adjustable for up to 40 db gain for cutting through hash and noise. Adaptable to either relay or electronic switching. Push-to-talk bar and lock-lever. Output level -50 db, output impedance 100 ohms. Nine-volt easily replaceable battery. Weight 2 lbs. shpg. wt. 4 lbs. No. 29A697. Mfg. List \$75.00 Each **\$45.00**

"+3" TRANSISTOR AMPLIFIED BASE STATION MICROPHONE. Bold new styling, new compression amplifier circuit and exclusive new ceramic interior design make the "+3" the finest, most professional base station microphone offered. Allows user to talk close up or far from mike without varying output signal. Response 300-3,000 Hz. for voice clarity. Has slide lock switch, touch bar, volume control, 3 conductor coiled cord. Blue gun metal and chrome. With wiring instructions for more than 100 popular transceivers. Shpg. wt. 3 lbs. No. 29A645 Model +3. Mfg. List \$75.00. Net Each **\$45.00**

+2 TRANSISTOR AMPLIFIED BASE STATION MICROPHONE WITH VARIABLE OUTPUT LEVEL. Puts the zip back into your CB set and keeps it up to full strength. Features a two transistor preamp with volume control - gives up to 50 times the output level you now have. Just dial your desired signal for maximum modulation all the time. You can even work close or far away from the microphone or change the output for a big or little voice. Has tailored frequency response 300-3500 Hz., exclusive touch-to-talk and lock on-off switching. Works with all tube or transistor sets. Blue and chrome finished. Attached coiled cord. Shpg. wt. 3 1/2 lbs. No. 29B295. Mfg. List \$50.00. Net Each **\$36.00**

DESK MIKES FOR BASE STATION OR PAGING

Most popular microphone made for desk use. Operates by touch bar on-off switch, or lever lock switch. Comes with 7 ft. cable wired for relay control. Response 100-8000 Hz. Deluxe light grey hammerstone and chrome finish. 7 3/4" H., 5 1/2 x 5" base. Mfg. list \$35.00. Shpg. wt. 3 lbs. No. 29B286. Model 254HC. Ceramic. Output -50 db. Net Each. **\$21.00**

"SINGLE SIDEBAND" DESK MIKE

Specially tailored voice response for maximum communications intelligibility. Response 300-3,000 Hz. Operates by touch bar on-off switch, lever lock switch or VOX, in relay controlled circuits. Lustrous black and chrome. Size as above. Mfg. List \$40.00. Shpg. wt. 3 lbs. No. 29B380. Model 454X. Crystal. Output -48 db. Net Each **\$24.00**

No. 29B379. Model 454C. Ceramic. Output -52 db. Net Each **\$24.00**

M+2 TRANSISTOR AMPLIFIED MOBILE MIKE

Adds range to CB mobiles because of full voice power. Has built-in 2 transistor pre-amp with volume control that lets you adjust your modulation for the best performance. Has tailored frequency response, 350-3500 Hz. press-to-talk switch, 5 ft. coiled cord. Internal transistor amplifier takes power from internal battery. Mfg. List \$50.00. Shpg. wt. 1 lb. Choice Each No. 29B276. Model M+2U. relay switching. No. 29A607. Model J-M+2U. electronic switching. **\$30.00**

M+3 TRANSISTORIZED MIKE WITH VOLUME CONTROL

Stylish mobile mike has slide-action volume control and new compression amp. circuit, talk close to or far from mike without varying output. Provides clear, strong signal and no over-modulating into adjacent channels. Ceramic interior. 300-3500Hz freq. resp. Push-to-talk switch. Uses TR175, 7 V. battery included. White and blue case with blue rubber cord. (3 cond., 1 shielded) Mfg. List \$55. Shpg. wt. 1 lb. No. 29A683. Model M+3 for Relay Switching. Each **\$33.00**

Model JM+3 for Electronic Switching No. 29A684. Each **\$33.00**

NOISE CANCELLING NC350C CERAMIC MOBILE MIKE

Effectively cuts through QRM, reduces feedback in PA use, overcomes high background noise. Black cyclac case with rubber lip guard and neoprene coiled cord. Hi imp. Freq. response 100-7KHZ. Output -62 db. Cable 3-cond., 1 shielded. Mfg. List \$21.00. No. 29A681. Shpg. wt. 1 1/2 lbs. **\$12.60**

SAVE ON FRESH FILM!

B-A's KODAK FILM

PRICES INCLUDE*PROCESSING



B-A's LOW PRICE INCLUDES PROCESSING
 CX 126 12 EXP. \$3.97
 3 LOTS

B-A's LOW PRICE INCLUDES PROCESSING
 35 MM. 20 EXP. \$3.27
 3 LOTS

B-A's LOW PRICE INCLUDES PROCESSING
 8 MM. Movie \$4.04
 3 LOTS

KODAK KODACOLOR-X FILM FOR COLOR PRINTS

PRICES INCLUDE PROCESSING * - YOU RECEIVE PRINTS BACK FROM PROCESSOR

Stock No.	Kodak No.	Net Each	3 @ Each	10 @ Each
66A3090	C110-12 Pocket Instamatic Kodacolor II	\$4.11	\$3.83	\$3.57
66A3091	C110-20 Pocket Instamatic Kodacolor II	6.05	5.61	5.24
66A3092	KX110-20 Pocket Instamatic Kodachrome X	6.20	5.78	5.37
66A3093	EX110-20 Pocket Instamatic Ektachrome X	6.40	5.94	5.65
66A3040	CX126 Instamatic Kodacolor-X, 12 exp.	4.30	3.97	3.44
66A3041	CX128 Instamatic Kodacolor-X, 20 exp.	6.65	6.05	5.24
66A3042	CX127 Kodacolor-X, 12 exp.	4.15	3.83	3.32
66A3043	CX120 Kodacolor-X, 12 exp.	4.15	3.83	3.32
66A3044	CX620 Kodacolor-X, 12 exp.	4.15	3.83	3.32
66A3045	CX135 Kodacolor-X, 20 exp.	5.75	5.28	4.60

KODAK KODACHROME MOVIE FILM

PRICES INCLUDE PROCESSING *

Day Kodachrome II Stk. No.	Type A Kodchrm. II Stk. No.	Kodak No.	Description	Net Each	3 @ Each	10 @ Each
66A3014	K 459	66A3031	K A459 8MM 25' Double Roll	\$4.35	\$4.04	\$3.77
66A3015	KA464	Use Outdoors & Indoors	Super 8 MM 50' Kodapak Ctrtge	4.60	4.27	3.99

35MM & 126 KODACHROME FILM FOR COLOR SLIDES

PRICES INCLUDE PROCESSING* AND MOUNTED SLIDES

Stk. No.	Kodak No.	ASA	Description	Each	3 @ Ea.	10 @ Ea.
66A3019	K 135-20	25	20 Exp. Kodachrome II	\$3.52	\$3.27	\$3.06
66A3020	K 135-36	25	36 Exp. Kodachrome II	5.26	4.87	4.55
66A3021	KX135-20	64	20 Exp. Kodachrome X	3.52	3.27	3.05
66A3022	KX135-36	64	36 Exp. Kodachrome X	5.26	4.87	4.55
66A3023	KX126	64	20 Exp. Kodachrome X Instamatic	3.52	3.27	3.05

35MM & 126 EKTACHROME FOR COLOR SLIDES

PRICES INCLUDE PROCESSING* AND MOUNTED SLIDES

Stk. No.	Kodak No.	Description	ASA	Flash	Each	3 Ea.	10 Ea.
66A3024	EX135-20	35 MM Day or Flash, 20 Exp.	64	Blue	\$3.72	\$3.46	\$3.23
66A3025	EX135-36	35 MM Day or Flash, 36 Exp.	64	Blue	5.34	5.10	4.78
66A3026	EH135-20	35 MM Hi-Speed Day, 20 Exp.	160	Blue	4.11	3.81	3.56
66A3027	EH135-36	35 MM Hi-Speed Day, 36 Exp.	160	Blue	6.03	5.80	5.09
66A3028	EH135-20	35 MM Hi-Speed "B," 20 Exp.	125	Flood	4.11	3.81	3.56
66A3029	EX126-20	Instamatic Ektachrome X, 20 Exp.	64	Blue	3.72	3.48	3.23
66A3030	EH126-20	Instamatic Hi-Speed Day, 20 Exp.	160	Blue	4.11	3.81	3.56
66A3048	EX127	127 Day or Flood, 12 Exp.	64	Blue	2.78	2.59	2.41

*High Quality Color Slide Processing by 3M in modern high speed photo labs across the USA. Color print processing by Berkey photo. Send exposed film to address on Prepaid Processing mailers supplied with film order.

KODAK KODACHROME MOVIE FILM WITHOUT PROCESSING

See separate processing mailers below.

Day Kodachrome II Stk. No.	Type A Kodachrome II Stk. No.	Kodak No.	Description	Kodak Price	B-A Net Ea.	3 @ Each	10 Asstd. Each
66A3050	KA459	66A3066	KA459 8 MM 25' Double Roll	\$2.95	\$2.66	\$2.60	\$2.51
66A3051	KA464	Use Outdoors & Indoors	Super 8 MM 50' Kodapak Cart.	3.20	2.88	2.82	2.72
66A3035	KA60	66A3067	KA460 8 MM 25' Double Mag.	4.75	4.28	4.18	4.04
66A3052	KA49	66A3068	KA449 16 MM 100' Roll	9.70	8.73	8.54	8.25
66A3053	K447	66A3069	KA447 16 MM 50' Mag.	7.55	6.80	6.64	6.42

GENUINE KODAK PREPAID PROCESSING MAILERS

Send film in special mailer to any Kodak Photolab listed on mailer. Finished work is promptly returned direct to you. Suffix 35 on Kodak No. indicates size 3 1/2 x 3 1/2" prints; 2R, size 2 1/2 x 3 1/2" prints; 3R, size 3 1/2 x 4 1/2" prints.

FOR COLOR PRINTS FROM KODACHROME FILM

Stock No.	Kodak No.	For Film Type	Kodak Price	B-A Net Each
66A3077	DP12-35	C110 CX120, 620, 127 and 126-12 Exp.	\$4.90	\$4.41
66A3078	DP20-35	CX126, 20 Exposure	7.30	6.57
66A3079	DP20-2R	CX135, 20 Exposure	6.30	5.67
66A3087	DP20-3R	C110 CX135, 20 Exposure	7.30	6.57

FOR CARDBOARD MOUNT COLOR SLIDES

Stock No.	PK	For Kodak	Price	B-A
66A3080	PK20	For Kodak 35 MM-20, 126-20 Exposure Slide Film and KX110-20, EX110-20 Pocket Instamatic	2.45	2.20
66A3081	PK36	For Kodak 35 MM-36 Exposure Slide Film	3.95	3.56
66A3082	PK27	For Kodak 127 Slide Film	2.95	2.65

FOR 8MM AND SUPER-8 MOVIE FILM

Stock No.	PK	For Kodachrome II Movie Film	Price	B-A
66A3083	PK59	For Kodachrome II Movie Film, Double 8 MM Roll or Super 8-50' Cartridge	2.45	2.20
66A3084	PK60	For Kodachrome II Movie Film 8 MM 25' Ft. Magazine	2.10	2.16
66A3085	PK49	For 16 MM 100 Ft. Roll	6.00	5.40
66A3086	PK47	For 16 MM 50 Ft. Magazine	2.60	2.34

POLAROID LAND FILM



Black and White in 10 seconds, color in 60 seconds. 20C3000 is for the Swinger, 88-75 is for the Square Shooter.

Stock No.	Type and ASA Speed	Pictures	Net Each	3 @ Each	5 @ Each
66A3049	20C3000	Black & White	\$2.26	\$2.11	\$2.00
66A3007	47-3000	Black & White	3.15	2.95	2.75
66A3008	42-200	Black & White	3.15	2.96	2.75
66A3009	37-3000	Black & White	2.40	2.24	2.06
66A3010	32-400	Black & White	2.40	2.24	2.06
66A3011	48-75	Color Roll	5.12	4.80	4.50
66A3012	107-3000	B & W Pack	3.10	2.90	2.71
66A3089	88-75	Color Pack	3.75	3.51	3.44
66A3013	108-75	Color Pack	5.35	5.01	4.69

KODAK FILM WITHOUT PROCESSING

See separate processing mailers below. All film below for outdoors, electronic flash or blue bulbs.

110 POCKET INSTAMATIC COLOR FILM

C110 is Kodacolor II, KX110 is Kodachrome-X, EX is Ektachrome-X.

Stock No.	Kodak No.	ASA	Kodak Price	B-A Net Ea.	3 @ Each	10 Asstd. Each
66A3094	C110-12	80	\$1.40	\$1.26	\$1.23	\$1.19
66A3095	C110-20	80	1.95	1.78	1.72	1.68
66A3096	KX110-20	64	2.10	1.89	1.85	1.79
66A3097	EX110-20	64	2.30	2.07	2.02	1.96

126 CARTRIDGE COLOR FILM FOR INSTANT LOAD CAMERAS

Buy CX Type for Prints, others for Slides

Stock No.	Kodak No. & Exposure	ASA	Kodak Price	B-A Net Ea.	3 @ Each	10 Asstd. Each
66A3071	CX126-12	80	\$1.40	\$1.26	\$1.23	\$1.19
66A3072	CX126-20	80	1.95	1.78	1.72	1.68
66A3058	KX126-20	64	2.10	1.89	1.85	1.78
66A3064	EX126-20	64	2.30	2.07	2.02	1.95
66A3065	EH126-20	160	2.70	2.43	2.38	2.29

POPULAR 35MM COLOR FILM

Buy CX135 for Prints. All others listed are for Slides

Stock No.	Kodak No. & Exposure	ASA	Kodak Price	B-A Net Ea.	3 @ Each	10 Asstd. Each
66A3076	CX135-20	80	\$1.95	\$1.76	\$1.72	\$1.66
66A3054	K135-20	25	2.10	1.89	1.85	1.79
66A3055	K135-36	25	2.95	2.65	2.60	2.51
66A3056	KX135-20	64	2.10	1.89	1.85	1.79
66A3057	KX135-36	64	2.95	2.65	2.60	2.51
66A3059	EX135-20	64	2.30	2.07	2.02	1.95
66A3060	EX135-36	64	3.20	2.88	2.84	2.72
66A3061	EH135-20	160	2.70	2.43	2.38	2.30
66A3062	EH135-36	160	3.75	3.38	3.30	3.19
66A3063	EH135-20	125	2.70	2.43	2.38	2.30

COLOR ROLL FILM

CX for Prints. EX for Slides

Stock No.	Kodak No.	ASA	Price	B-A	3 @	10 @
66A3074	CX120	80	1.25	1.13	1.10	1.08
66A3075	CX620	80	1.25	1.13	1.10	1.06
66A3073	CX127	80	1.25	1.13	1.10	1.06
66A3070	EX127	64	1.35	1.21	1.19	1.15

COMPARE B-A's HUGE SAVINGS ON PREPAID PROCESSING MAILERS

If any of your films have been purchased less processing from B-A or any place else—you may buy the prepaid process mailers listed below and save \$\$\$.

MAILED DIRECTLY TO YOU FROM COAST-TO-COAST PROCESSING LABS

New faster, finer service. Latest electronic automation... In-lab time only one day.

MAILERS FOR KODACOLOR

Use mailers below for color prints of any Instamatic, 35 mm, or 120 Kodacolor film. Use CX126 for Pocket Instamatic.

Stock No.	Kodacolor Print Mailers for:	Net Each	3 @ Each	10 @ Each
66A3036	CX126-12 Instamatic 12 exp.	\$3.25	\$2.84	\$2.48
66A3037	CX126-20 Instamatic 20 exp.	6.07	4.43	3.88
66A3038	CX135-35 mm., 20 exp.	4.36	3.79	3.32
66A3039	CX120, CX127, CX620 Film	3.25	2.84	2.48

MAILERS FOR KODACHROME, EKTACHROME, HI-SPEED EKTACHROME, DYNACHROME, ANSCOCHROME, GAF MOVIECHROME AND FUJICHROME FILM

Use mailers below for movie film and still film. You will receive back mounted slides (transparencies).

Stock No.	3M Mailer by Dynachrome	Net Each	3 @ Each	10 @ Each
66A3000	8 MM 25' Roll, Super 8 Kodapak Cartridge, 35 MM-20 Exp., 126-20 Exp., 127, 120, 620 and 126 Kodapak	\$1.73	\$1.51	\$1.32
66A3005	35 MM, 36 Exposure	2.78	2.43	2.13

B-A SAVES YOU MONEY ON PHOTO NEEDS

COMPARE OUR LOWER PRICES

SYLVANIA "BLUE DOT" FLASH BULBS



SYLVANIA BLUE FLASHBULBS. For all dual-purpose Kodachrome and Ektachrome films—plus daylight color films of any other manufacturer.

Stock No.	Bulb Type	Lumen Class	Color Seconds	Temp.	Same As	Ctn. List	Per 3 Ctns. @ Ea.	Case of 12 Ctn.
66A6032	FC-1	Cube	2MCP5	5500°K	.....	\$1.85	\$1.35	\$1.27
66A6027	AC-1B	—	4,000	6000°K	AC-1B	2.09	1.71	1.61
66A6028	M-3B	MGFP	9,000	6000°K	.....	2.79	2.29	2.15
66A6029	M-2B	—	6,000	5100°K	M-2B	2.79	2.29	2.15
66A6030	25B	M	9,000	6000°K	5B	2.99	2.45	2.30
66A6031	FP26B	FP	8,500	6000°K	6B	3.50	2.87	2.70

*Indicates 12 Bulbs (or flashes) per Carton.

SYLVANIA CLEAR FLASHBULBS. For all Black and White. May be used with the High Speed Ektachrome Type (EHB) with an 81C filter.

Stock No.	Bulb Type	Lumen Class	Color Seconds	Temp.	Same As	Ctn. List	Per 3 Ctns. @ Ea.	Case of 12 Ctn.
66A6022	AC-1	—	7,000	3800°K	AC-1	2.09	1.71	1.61
66A6023	M-3	MGFP	16,000	3800°K	.....	2.79	2.29	2.15
66A6025	Press 25	M	20,000	3800°K	5	2.99	2.45	2.30
66A6026	FP-26	FP	19,000	3800°K	6	3.50	2.87	2.70



SYLVANIA "MAGICUBE"

ACTIVATED WITHOUT BATTERIES!
FITS KODAK INSTAMATIC "X"
AND POCKET INSTAMATICS ONLY

Lumen seconds 2 mcps. Color temperature 5500° K.
No. 66A6067. Ctn. List \$2.35. 12 flashes per ctn.
Per Carton.....\$1.93 3 Ctns. Ea.\$20.02

200 Flashes on one set of alkaline batteries. Guide No. 34 for ASA25 film. 7-10 sec. recycling. Light weight only 6 oz.
Fits cameras having "X" flash synchronizer, also Polaroid. Mounts horizontally or vertically, 65° to 55° light dispersion respectively. Color temperature balanced for daylight color films. Flash duration 1/3000 sec. Recycles in 7-10 sec. on batteries, 3-6 sec. on AC. Has ready light, PC cord, flash calculator. Size 3 3/4" x 1 1/4" x 2 1/2". Shpg. wt. 1 lb. No. 66A252. \$16.88
Less Batteries. Net Each.....
No. 21A41. Alkaline Pencil (Requires 2). Each

MINIATURE ELECTRONIC FLASH

KAKO 818
AC & BATTERY

\$16.88



POPULAR SLIDE TRAYS



LOW-PRICES ON AIREQUIPT MAGAZINES

Metal Magazines. Holds 36 slides. Shpg. wt. 8 oz.	
No. 66A218. Each.....	\$2.45 6 Lots, Each.....\$2.20
Vari-Mount Plastic Magazines. Holds 36 slides. Shpg. wt. 8 oz.	
No. 66A219. Each.....	\$1.65 6 Lots, Each.....\$1.48
Circular Magazine. Holds 100 slides. Shpg. wt. 1 lb.	
No. 66A220. Each.....	\$3.10 6 Lots, Each.....\$2.79
Stack Loader. Holds 150 slides. Shpg. wt. 1 lb.	
No. 66A221. Each.....	\$9.95 6 Lots, Each.....\$8.95

YANKEE TRAYS

Universal. 30 slot with plastic cover. Fits the Sawyer's Anscomatic, Viewlex, Keystone, AO Executive, Tower Automatic, TDC-Bell & Howell and Kodak Changers. Shpg. wt. 8 oz.	
No. 66A225. Each.....	65c 6 Lots, Each.....59c
Revere-Wollensak. 36 slot Shpg. wt. 8 oz.	
No. 66A226. Each.....	\$1.00 6 Lots, Each.....90c
Tankee-Sawyer Roto Tray. Holds 100. Shpg. wt. 1 lb.	
No. 66A223. Each.....	\$2.95 6 Lots Each.....\$2.65
Yankee-Carousel Tray. Holds 100. Shpg. wt. 1 lb.	
No. 66A283. Each.....	\$2.95 6 Lots Each.....\$2.65

3 WIRE PROJECTOR CORD

Belden 8 ft. gray SVT vinyl cord has No. 18 conductors. Has 3 contact molded female connector for Revere and Kodak projectors and many business machines. Has 3 prong plug for safety grounding. Shpg. wt. 1 lb.
No. 41A444. Belden 17258. Each.....\$1.09 5 Each.....97c

SYLVANIA CERAMIC "BLUE TOP" PROJECTOR LAMPS



Exact replacement for all slide and movie projectors.
Listed alphabetically according to ASA Code.

Precision made for maximum life and high output. Buy a pair and keep a spare!

Stock No.	ASA Code	Type No.	List Each	Net Each	2 Lots Each	6 Lots Each
66A6033	BCK	500T8/Q/TF	\$13.40	\$10.99	\$10.32	\$9.51
66A6048	BEH	150T10TF	3.65	2.99	2.81	2.59
66A6068	BVB	30T73C	2.90	2.38	2.23	2.06
66A6061	BVR	30T70C	2.90	2.38	2.23	2.06
66A6000	CAL	300T10F4	5.55	4.55	4.27	3.94
66A6001	CAR	150T10TF1	4.80	3.94	3.70	3.41
66A6073	CAX	50W	3.85	3.16	2.96	2.73
66A6062	CBA	500T6	13.95	11.44	10.74	9.90
66A6049	CBJ/CBC	75T8/73	3.95	3.24	3.04	2.80
66A6074	CBX/CBS	75W	3.95	3.24	3.04	2.80
66A6050	CEM	110T8/108SC	2.90	2.08	2.23	2.06
66A6075	CEW/CFC	150W	3.85	3.16	2.96	2.73
66A6076	CGP/CFK	150W	3.55	2.91	2.73	2.52
66A6002	CLS/CLG	300T8 1/2 /11	4.60	3.77	3.54	3.27
66A6003	CLX/CMB	300T8 1/2 /12	4.25	3.49	3.27	3.02
66A6004	CMV/CMT	300T8 1/2 /2SC	6.50	5.33	5.01	4.62
66A6005	CTT/CTS	1M/T12TF3	10.65	8.73	8.20	7.56
66A6006	CWA	750T12/TF1	9.60	7.87	7.39	6.82
66A6007	CXB	300T10TF1	4.80	3.94	3.70	3.41
66A6008	CXK	300T10P	6.30	5.17	4.85	4.47
66A6063	CXL	50T86	7.80	6.40	6.01	5.54
66A6009	CYC	300W	4.70	3.85	3.62	3.34
66A6077	CYS	1200W	11.50	9.43	8.86	8.17
66A6010	CZA/CZB	500T10F1	6.80	5.58	5.24	4.83
66A6011	CZC/OAB	500T10P	6.50	5.33	5.01	4.62
66A6051	DAH	500T12TF/M/200	8.85	7.26	6.81	6.28
66A6012	DAK	500T10TF	6.10	5.00	4.70	4.33
66A6013	DAY	500T10/TF/H	7.90	6.48	6.08	5.61
66A6052	DCA	150T12TF/LV	7.05	5.78	5.43	5.01
66A6078	DCF	150W	7.55	6.19	5.81	5.36
66A6014	DCH/DFP	150T12TF2	6.50	5.33	5.01	4.62
66A6015	DDB	750T12P	6.70	5.49	5.16	4.76
66A6069	DEF	150T12	8.10	6.64	6.24	5.75
66A6054	DEJ	750T12/BLR	7.55	6.19	5.81	5.36
66A6055	DFK	500T12TF2/M	6.80	5.41	5.08	4.69
66A6056	DEP	750T12TF	6.20	5.08	4.77	4.40
66A6016	DFA	150T12TFR	7.05	5.78	5.43	5.01
66A6017	DFC/DFN	150T12TFR1	6.50	5.33	5.01	4.62
66A6018	DFO	1M/T12P	7.25	5.95	5.58	5.15
66A6064	DPE	80T12	6.10	5.00	4.70	4.33
66A6057	DFK	1000W	8.20	6.72	6.31	5.82
66A6079	DFT	1000W	7.25	5.95	5.58	5.15
66A6059	DFW	500T12TF2	6.60	5.41	5.08	4.69
66A6019	DFY	1M/T12/5LR	8.20	6.72	6.31	5.82
66A6020	DGH	750T12/500	12.05	9.88	9.28	8.56
66A6060	DJL	150T12TF3	7.05	5.78	5.43	5.01
66A6042	OKM	250T14TFR/LVD/1	10.45	8.57	8.05	7.42
66A6043	OLR	250T14/TFR/LVD	9.50	7.79	7.32	6.75
66A6044	OLS	150T14/TFR/LVD	7.80	6.40	6.01	5.54
66A6080	DMX	500W	7.45	6.11	5.74	5.29
66A6035	DNE	150T20/D	11.70	9.59	9.01	8.31
66A6046	DRS	1M/T20/MP	8.55	7.01	6.58	6.07
66A6036	DVS	500T30/Cl	15.25	12.51	11.74	10.83
66A6037	DVY	Sun Gun	10.00	8.20	7.70	7.10
66A6038	DVP	6000G7/TP	13.55	11.11	10.43	9.82
66A6039	DYS	600W	10.35	8.49	7.97	7.36
66A6040	DVY	6000G6/TP3	10.75	8.82	8.28	7.63
66A6065	EGH	500T6	13.00	10.66	10.01	9.23
66A6021	FAL	420T40	10.35	8.48	7.97	7.45
66A6047	FCB	600T4/0	10.95	8.98	8.43	7.77
66A6041	FFJ	600W120V/40	10.85	8.90	8.35	7.70

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Remote control forward/reverse and micro focus, 500 W. CZA lamp. Accepts all four Airequipt slide handling systems, metal magazines, vari-mount plastic magazine, circular and the new stack loader. Features elevation and leveling control. Shpg. wt. 18 lbs. With circular magazine.
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RCA is Radio Corp. of America
ST is Sarkes Tarzian

IR is International Rectifier
TR is Transistron

MOT is Motorola
MAL is Mallory

FEN is Fenwal
CL is Clairex

EA is Electronic Arrays
NJS is New Jersey Semiconductor
SP is Sprague

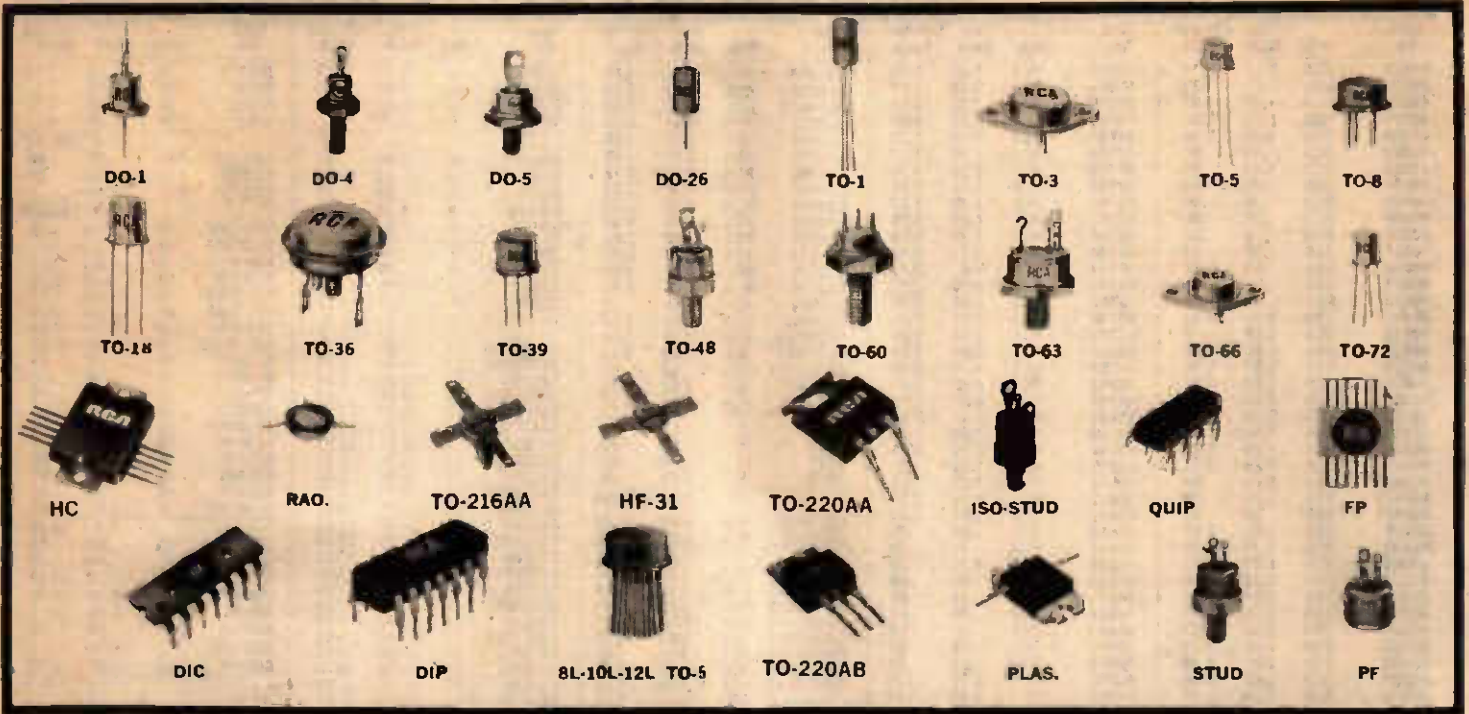
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Type No.	Mfg.	1-99 Each	100-999 Each	Type No.	Mfg.	1-99 Each	100-999 Each	Type No.	Mfg.	1-99 Each	100-999 Each	Type No.	Mfg.	1-99 Each	100-999 Each
1N34A	IR	\$0.24	\$0.21	1N174S	TR	\$2.75	\$1.95	2N2405	RCA	\$1.37	\$1.14	2N3298	RCA	\$0.66	\$0.62
1N34A	RCA	.33	.21	1N2069	IR	.32	.28	2N2631	RCA	3.80	2.76	2N3320	RCA	1.14	.83
1N60	IR	.24	.21	1N2069A	IR	.32	.28	2N2857	RCA	2.72	1.98	2N3321	RCA	.91	.86
1N60	RCA	.33	.21	1N2070	IR	.41	.35	2N2869/				2N3322	RCA	1.40	1.02
1N64	IR	.24	.21	1N2070A	IR	.41	.35	2N301	RCA	1.82	1.32	2N3323	RCA	1.01	.73
1N82A	RCA	.96	.64	1N2071	IR	.50	.44	2N301A	RCA	3.22	2.34	2N3415	RCA	1.24	.90
1N82AG	IR	.70	.61	1N2071A	IR	.50	.44	2N301A	RCA	3.22	2.34	2N3416	RCA	1.60	1.18
1N87A	IR	.24	.21	1N2389	IR	Use ST14		2N301A	RCA	3.22	2.34	2N3417	RCA	1.60	1.18
1N248	TR	1.10	.72	1N2858A	RCA	.33	.24	2N2876	RCA	11.25	9.30	2N3418	RCA	1.60	1.18
1N248C	RCA	1.30	.95	1N2859A	RCA	.37	.27	2N2895	RCA	1.44	1.02	2N3419	RCA	1.60	1.18
1N248RC	RCA	1.30	.95	1N2860A	RCA	.40	.29	2N2896	RCA	2.06	1.50	2N3420	RCA	1.60	1.18
1N249C	RCA	1.39	1.01	1N2861A	RCA	.42	.30	2N2897	RCA	1.16	.84	2N3421	RCA	1.60	1.18
1N249RC	RCA	1.39	1.01	1N2862A	RCA	.48	.35	2N3053	RCA	.40	.33	2N3422	RCA	1.60	1.18
1N250C	RCA	2.26	1.84	1N2863A	RCA	.58	.42	2N3054	RCA	.84	.69	2N3423	RCA	1.60	1.18
1N250RC	RCA	2.26	1.84	1N2864A	RCA	.70	.51	2N3055	RCA	1.42	1.05	2N3424	RCA	1.60	1.18
1N270	RCA	.29		1N3002A	TR	2.75	1.95	2N3118	RCA	4.95	3.60	2N3425	RCA	.96	.70
1N295	RCA	.33		1N3022	TR	.80	.80	2N3119	RCA	5.38	3.90	2N3426	RCA	.96	.70
1N295	IR	.24	.21	1N3022B	TR	1.25	1.18	2N3228	RCA	1.47	1.07	2N3427	RCA	.96	.70
1N440B	RCA	.83	.38	1N3025A	TR	1.10	.95	2N3229	RCA	22.21	18.38	2N3428	RCA	.96	.70
1N441B	RCA	.80	.43	1N3039	TR	.90	.80	2N3282	RCA	7.43	5.40	2N3429	RCA	1.04	.78
1N442B	RCA	.86	.81	1N3193	RCA	.35	.26	2N3263	RCA	46.40	38.40	2N3430	RCA	1.04	.78
1N443B	RCA	.79	.98	1N3194	RCA	.38	.28	2N3264	RCA	40.60	33.60	2N3431	RCA	1.04	.78
1N444B	RCA	.82	.67	1N3195	RCA	.53	.39	2N3265	RCA	47.15	39.00	2N3432	RCA	1.04	.78
1N445B	RCA	1.12	.82	1N3196	RCA	.74	.64	2N3266	RCA	40.45	33.50	2N3433	RCA	1.04	.78
1N538	RCA	.36	.27	1N3253	RCA	.38	.28	2N3375	RCA	9.90	7.20	2N3434	RCA	1.04	.78
1N537	RCA	.40	.29	1N3254	RCA	.40	.30	2N3439	RCA	1.16	.88	2N3435	RCA	1.04	.78
1N538	RCA	.45	.32	1N3255	RCA	.56	.41	2N3440	RCA	.80	.85	2N3436	RCA	1.04	.78
1N539	RCA	.50	.36	1N3256	RCA	.78	.57	2N3441	RCA	1.49	1.08	2N3437	RCA	1.04	.78
1N540	RCA	.56	.41	1N3287	TR	.60	.42	2N3442	RCA	2.89	2.10	2N3438	RCA	1.04	.78
1N547	RCA	.78	.57	1N3287	TR	.60	.42	2N3478	RCA	1.48	1.08	2N3439	RCA	1.04	.78
1N801	TR	1.53	1.02	1N3287	TR	.60	.42	2N3525	RCA	1.77	1.29	2N3440	RCA	1.04	.78
1N705	TR	.90	.60	1N3287	TR	.60	.42	2N3528	RCA	1.44	1.05	2N3441	RCA	1.04	.78
1N752A	TR	.75	.50	1N3287	TR	.60	.42	2N3529	RCA	1.77	1.29	2N3442	RCA	1.04	.78
1N758A	TR	.75	.50	1N3287	TR	.60	.42	2N3532	RCA	1.44	1.05	2N3443	RCA	1.04	.78
1N757	TR	.68	.45	1N3287	TR	.60	.42	2N3533	RCA	3.00	2.20	2N3444	RCA	1.04	.78
1N759A	TR	.78	.50	1N3287	TR	.60	.42	2N3534	RCA	3.00	2.20	2N3445	RCA	1.04	.78
1N784	TR	1.10	.75	1N3287	TR	.60	.42	2N3535	RCA	3.00	2.20	2N3446	RCA	1.04	.78
1N770	TR	.48	.38	1N3287	TR	.60	.42	2N3536	RCA	3.00	2.20	2N3447	RCA	1.04	.78
1N812	TR	.98	.74	1N3287	TR	.60	.42	2N3537	RCA	3.00	2.20	2N3448	RCA	1.04	.78
1N812	TR	.98	.74	1N3287	TR	.60	.42	2N3538	RCA	3.00	2.20	2N3449	RCA	1.04	.78
1N818	TR	.38	.25	1N3287	TR	.60	.42	2N3539	RCA	3.00	2.20	2N3450	RCA	1.04	.78
1N1085	RCA	.61	.48	1N3287	TR	.60	.42	2N3540	RCA	3.00	2.20	2N3451	RCA	1.04	.78
1N1183A	RCA	1.86	1.36	1N3287	TR	.60	.42	2N3541	RCA	3.00	2.20	2N3452	RCA	1.04	.78
1N1183RA	RCA	1.86	1.36	1N3287	TR	.60	.42	2N3542	RCA	3.00	2.20	2N3453	RCA	1.04	.78
1N1184A	RCA	2.19	1.60	1N3287	TR	.60	.42	2N3543	RCA	3.00	2.20	2N3454	RCA	1.04	.78
1N1184RA	RCA	2.19	1.60	1N3287	TR	.60	.42	2N3544	RCA	3.00	2.20	2N3455	RCA	1.04	.78
1N1186A	RCA	3.17	2.30	1N3287	TR	.60	.42	2N3545	RCA	3.00	2.20	2N3456	RCA	1.04	.78
1N1186RA	RCA	3.17	2.30	1N3287	TR	.60	.42	2N3546	RCA	3.00	2.20	2N3457	RCA	1.04	.78
1N1187A	RCA	4.41	3.20	1N3287	TR	.60	.42	2N3547	RCA	3.00	2.20	2N3458	RCA	1.04	.78
1N1187RA	RCA	4.41	3.20	1N3287	TR	.60	.42	2N3548	RCA	3.00	2.20	2N3459	RCA	1.04	.78
1N1188A	RCA	8.58	4.08	1N3287	TR	.60	.42	2N3549	RCA	3.00	2.20	2N3460	RCA	1.04	.78
1N1188RA	RCA	8.58	4.08	1N3287	TR	.60	.42	2N3550	RCA	3.00	2.20	2N3461	RCA	1.04	.78
1N1189A	RCA	6.55	4.78	1N3287	TR	.60	.42	2N3551	RCA	3.00	2.20	2N3462	RCA	1.04	.78
1N1189RA	RCA	6.55	4.78	1N3287	TR	.60	.42	2N3552	RCA	3.00	2.20	2N3463	RCA	1.04	.78
1N1190A	RCA	7.72	5.82	1N3287	TR	.60	.42	2N3553	RCA	3.00	2.20	2N3464	RCA	1.04	.78
1N1190RA	RCA	7.72	5.82	1N3287	TR	.60	.42	2N3554	RCA	3.00	2.20	2N3465	RCA	1.04	.78
1N1195A	RCA	3.18	2.32	1N3287	TR	.60	.42	2N3555	RCA	3.00	2.20	2N3466	RCA	1.04	.78
1N1195RA	RCA	3.18	2.32	1N3287	TR	.60	.42	2N3556	RCA	3.00	2.20	2N3467	RCA	1.04	.78
1N1196A	RCA	4.09	2.98	1N3287	TR	.60	.42	2N3557	RCA	3.00	2.20	2N3468	RCA	1.04	.78
1N1196RA	RCA	4.09	2.98	1N3287	TR	.60	.42	2N3558	RCA	3.00	2.20	2N3469	RCA	1.04	.78
1N1197A	RCA	5.36	3.90	1N3287	TR	.60	.42	2N3559	RCA	3.00	2.20	2N3470	RCA	1.04	.78
1N1197RA	RCA	5.36	3.90	1N3287	TR	.60	.42	2N3560	RCA	3.00	2.20	2N3471	RCA	1.04	.78
1N1198A	RCA	5.78	4.20	1N3287	TR	.60	.42	2N3561	RCA	3.00	2.20	2N3472	RCA	1.04	.78
1N1198RA	RCA	5.78	4.20	1N3287	TR	.60	.42	2N3562	RCA	3.00	2.20	2N3473	RCA	1.04	.78
1N1199A	RCA	1.09	.78	1N3287	TR	.60	.42	2N3563	RCA	3.00	2.20	2N3474	RCA	1.04	.78
1N1199RA	RCA	1.09	.78	1N3287	TR	.60	.42	2N3564	RCA	3.00	2.20	2N3475	RCA	1.04	.78
1N1200A	RCA	1.25	.91	1N3287	TR	.60	.42	2N3565	RCA	3.00	2.20	2N3476	RCA	1.04	.78
1N1200RA	RCA	1.25	.91	1N3287	TR	.60	.42	2N3566	RCA	3.00	2.20	2N3477	RCA	1.04	.78
1N1202	IR	2.45	1.65	1N3287	TR	.60	.42	2N3567	RCA	3.00	2.20	2N3478	RCA	1.04	.78
1N1202A	RCA	2.28	1.66	1N3287	TR	.60	.42	2N3568	RCA	3.00	2.20	2N3479	RCA	1.04	.78
1N1202RA	RCA	2.28	1.66	1N3287	TR	.60	.42	2N3569	RCA	3.00	2.20	2N3480	RCA	1.04	.78
1N1203A	RCA	3.17	2.30	1N3287	TR	.60	.42	2N3570	RCA	3.00	2.20	2N3481	RCA	1.04	.78
1N1203RA	RCA	3.17	2.30	1N3287	TR	.60	.42	2N3571	RCA	3.00	2.20	2N3482	RCA	1.04	.78
1N1204A	RCA	4.04	2.84	1N3287	TR	.60	.42	2N3572	RCA	3.00	2.20	2N3483	RCA	1.04	.78
1N1204RA	RCA	4.04	2.84	1N3287	TR	.60	.42	2N3573	RCA	3.00	2.20	2N3484	RCA	1.04	.78
1N1205A	RCA	4.82	3.50	1N3287	TR	.60	.42	2N3574	RCA	3.00	2.20	2N3485	RCA		

SEMICONDUCTOR DIRECTORY

Type No.	Mfg.	1-99 Each	100-999 Each	Type No.	Mfg.	1-99 Each	100-999 Each	Type No.	Mfg.	1-99 Each	100-999 Each	Type No.	Mfg.	1-99 Each	100-999 Each
40374	RCA	1.67	1.14	40686	RCA	1.85	1.35	403058	RCA	5.80	4.20	CL907	CL	1.50	1.15
40378	RCA	1.82	1.32	40687	RCA	2.20	1.66	CA3059	RCA	3.20	2.35	CL907L	CL	1.50	1.15
40379	RCA	1.47	1.07	40688	RCA	7.13	5.10	CA3060D	RCA	8.16	5.95	CL907HL	CL	1.50	1.15
40385	RCA	1.85	1.34	40689	RCA	8.25	6.00	CA3082	RCA	4.86	3.84	CS120	IR	2.35	1.75
40389	RCA	5.36	3.90	40737	RCA	1.49	1.08	CA3084	RCA	2.31	1.68			1-4	5-9
40390	RCA	.74	.54	40738	RCA	1.57	1.14	CA3065	RCA	2.31	1.68	0004	IR	.55	.50
40391	RCA	1.06	.77	40739	RCA	2.39	1.74	CA3066	RCA	4.29	3.12	0005	IR	.55	.50
40392	RCA	.81	.59	40740	RCA	3.38	2.46	CA3087	RCA	4.46	3.24	0006	IR	.55	.50
40394	RCA	.74	.54	40741	RCA	1.82	1.32	CA3068	RCA	4.95	3.24	DD-170	IR	1.05
40406	RCA	.81	.59	40742	RCA	1.80	1.38	CA3070	RCA	3.47	2.52	DD190	IR	.99
40407	RCA	.58	.42	40743	RCA	2.72	1.98	CA3071	RCA	3.30	2.40	E075L	IR	.70	.63
40408	RCA	.84	.61	40744	RCA	3.71	2.70	CA3072	RCA	3.38	2.46	E150L	IR	.88	.70
40409	RCA	.87	.64	40745	RCA	2.97	2.16	CA3075	RCA	2.31	1.68	E300L	IR	1.12	.90
40410	RCA	.89	.65	40746	RCA	3.05	2.22	CA3076	RCA	2.64	1.92	E500L	IR	1.40	1.26
40411	RCA	3.30	2.40	40747	RCA	3.85	2.85	CA3080	RCA	.97	.71			1-24	25-99
40412	RCA	1.06	.78	40748	RCA	4.87	3.54	CA3080A	RCA	3.22	2.34	EA1004SD	EA	7.50	6.00
40421	RCA	1.65	1.20	40749	RCA	2.34	1.70	CA3085A	RCA	2.39	1.74	EA1005SD	EA	7.50	6.00
40429	RCA	1.57	1.14	40750	RCA	2.48	1.80	CA3090	RCA	7.43	5.43	EA1200	EA	16.00	12.80
40430	RCA	1.89	1.37	40751	RCA	3.75	2.72	CA3741CT	RCA	.80	.69	EA1200SD	EA	7.35	5.90
40431	RCA	2.40	1.75	40752	RCA	4.95	3.60	CA3741T	RCA	2.50	1.95	EA1201	EA	16.00	12.80
40432	RCA	2.88	2.08	40753	RCA	2.67	1.94	CA8791T	RCA	5.45	3.96	EA1201SD	EA	7.35	5.90
40439	RCA	2.56	1.88	40754	RCA	2.81	2.04			EA1201SD	EA	15.00	12.00		
40440	RCA	1.98	1.44	40755	RCA	4.08	2.96			EA1202	EA	6.60	5.30		
40446	RCA	4.29	3.12	40756	RCA	5.28	3.84			EA1202SD	EA	15.00	12.00		
40462	RCA	1.16	.84	40810	RCA	1.13	.82			EA1203	EA	6.60	5.30		
40467A	RCA	1.24	.90	40811	RCA	1.32	.96			EA1203SD	EA	6.60	5.30		
40468A	RCA	.75	.54	40812	RCA	1.59	1.18			EA1204	EA	20.00	16.00		
40485	RCA	1.49	1.08	40813	RCA	1.98	1.44			EA1205	EA	22.00	18.00		
40486	RCA	1.79	1.30	40815	RCA	.86	.62			EA1206	EA	17.00	13.00		
40502	RCA	1.74	1.26	40816	RCA	.91	.66			EA1206SD	EA	9.50	7.60		
40503	RCA	2.05	1.48	40818	RCA	1.73	1.26			EA1210	EA	15.00	12.00		
40504	RCA	1.64	1.19	40820	RCA	.94	.68			EA1210SD	EA	7.90	6.30		
40505	RCA	1.94	1.41	40821	RCA	.89	.65			EA1212	EA	11.00	8.80		
40506	RCA	2.38	1.73	40822	RCA	.86	.62			EA1212SD	EA	7.50	6.00		
40507	RCA	1.63	1.13	40823	RCA	.81	.59			EA1214	EA	12.00	9.60		
40508	RCA	2.01	1.48	40841	RCA	.68	.49			EA1500	EA	37.50	30.00		
40509	RCA	1.65	1.20	45412	RCA	.28	.20			EA1501	EA	28.50	24.00		
40510	RCA	1.95	1.42	8-B2MC	IR	2.50	1.61			EA3132	EA	40.00	32.00		
40511	RCA	2.56	1.88	8-B3MC	IR	2.40	1.68			EA3501	EA	30.00	24.00		
40512	RCA	3.21	2.33							EA3513	EA	30.00	24.00		
40513	RCA	1.24	.90	BC101	IR	15.00	13.50			EA3701	EA	38.00	30.50		
40514	RCA	1.28	.92	BCF-100	IR	11.70	9.25			EA4001	EA	60.00	48.00		
40515	RCA	1.87	1.14	BCR-100	IR	11.70	9.25			EA4004	EA	60.00	48.00		
40526	RCA	1.78	1.30							EA4016	EA	60.00	48.00		
40527	RCA	2.48	1.80	CA3000	RCA	3.80	2.78			EA4016	EA	60.00	48.00		
40528	RCA	1.29	.94	CA3001	RCA	5.95	4.00			EA4034	EA	60.00	48.00		
40529	RCA	1.49	1.08	CA3002	RCA	3.71	2.70			EA4035	EA	60.00	48.00		
40530	RCA	1.79	1.30	CA3004	RCA	3.71	2.70			EA4501	EA	30.00	24.00		
40531	RCA	1.73	1.26	CA3005	RCA	2.48	1.80					1-49	50-99		
40532	RCA	1.94	1.41	CA3006	RCA	5.80	4.20			EA-8100	EA	40.00	30.00		
40533	RCA	2.65	1.92	CA3007	RCA	5.35	3.90					1-10	11-49		
40534	RCA	1.46	1.06	CA3008	RCA	3.14	2.28			EA-S100	EA	90.00	78.50		
40535	RCA	1.65	1.20	CA3008A	RCA	5.10	3.72			EA-S111	EA	90.00	78.50		
40536	RCA	1.95	1.42	CA3010	RCA	.89	.65			EA-S114	EA	60.00	61.00		
40537	RCA	.69	.50	CA3010A	RCA	1.07	.78			EA-S121	EA	75.00	64.00		
40538	RCA	.59	.43							ED102	SP	5.62	.....	
40539	RCA	.83	.61	CA3011	RCA	1.47	1.07			ED123	SP	1.17	.....	
40542	RCA	1.31	.95	CA3012	RCA	1.82	1.32			ED150	SP	.86	.....	
40543	RCA	1.37	1.00	CA3013	RCA	2.15	1.56			ED191	SP	2.25	.....	
40544	RCA	.58	.42	CA3014	RCA	2.48	1.80			ED201	SP	12.50	.....	
40553	RCA	2.78	2.00	CA3015	RCA	2.14	1.56			ED203	SP	6.50	.....	
40554	RCA	4.44	3.22	CA3015A	RCA	3.05	2.22			ED360	SP	1.60	.....	
40555	RCA	4.76	3.47	CA3016	RCA	4.30	3.12			ED401	SP	6.25	.....	
40558A	RCA	2.70	.81	CA3016A	RCA	6.52	4.76			ED702	SP	5.85	.....	
40575	RCA	2.01	1.50	CA3018	RCA	1.45	1.08			EP500	IR	3.95	.....	
40576	RCA	2.48	1.80	CA3018A	RCA	2.06	1.50					1-99	100-999		
40581	RCA	4.87	3.54							FW50	MAL	1.17	.78		
40582	RCA	5.12	3.72	CA3019	RCA	1.62	1.18			FW100	MAL	1.21	.81		
40583	RCA	See 45412		CA3020	RCA	2.56	1.86			FW200	MAL	1.27	.85		
40594	RCA	1.24	.90	CA3020A	RCA	3.28	2.37			FW300	MAL	1.33	.89		
40595	RCA	1.44	1.04	CA3021	RCA	3.14	2.28			FW400	MAL	1.50	1.00		
40600	RCA	1.24	.90	CA3022	RCA	2.64	1.92			FW600	MAL	1.66	1.11		
40601	RCA	1.18	.84	CA3023	RCA	2.56	1.86			6701	FEN	9.95	.....	
40602	RCA	.83	.60	CA3026	RCA	2.06	1.50					1-9	10-24		
40603	RCA	1.04	.78	CA3028A	RCA	1.47	1.07			GA511J	FEN	1.96	1.57		
40604	RCA	.98	.71	CA3028B	RCA	2.06	1.50			GA51P2	FEN	2.00	1.60		
40635	RCA	.83	.48	CA3029	RCA	.81	.59			GB32J2	FEN	1.96	1.57		
40636	RCA	1.65	1.20	CA3029A	RCA	.98	.71			GB32P8	FEN	2.35	1.88		
40638	RCA	1.57	1.14	CA3030	RCA	1.82	1.32			G025J1	FEN	3.24	2.60		
40639	RCA	1.87	1.38	CA3030A	RCA	2.72	1.98					1-99	100-999		
40640	RCA	2.72	1.98	CA3033	RCA	4.79	3.48			HC1000	RCA	29.00	24.00		
40641	RCA	2.85	2.08	CA3033A	RCA	8.09	5.88			HC2000	RCA	29.00	24.00		
40642	RCA	.99	.72	CA3034	RCA	2.89	2.10			HC3000	RCA	7.01	5.10		
40643	RCA	.91	.66							HC3100	RCA	6.90	5.70		
40644	RCA	.83	.60	CA3035	RCA	2.48	1.80			HC4005A	RCA	11.50	9.50		
40654	RCA	1.41	1.02	CA3036	RCA	1.47	1.07			HC4012A	RCA	11.50	9.50		
40655	RCA	1.69	1.23	CA3037	RCA	2.80	2.04			HC4015A	RCA	11.50	9.50		
40656	RCA	1.49	1.08	CA3037A	RCA	4.29	3.12					1-9	10-24		
40657	RCA	1.77	1.29	CA3038	RCA	4.29	3.12			IR106A	IR	.81	.54		
40658	RCA	1.57	1.14	CA3038A	RCA	6.78	4.20			IR106B	IR	.90	.60		
40659	RCA	1.57	1.14	CA3039	RCA	1.6									

RCA SEMICONDUCTORS



EXPLANATIONS OF SYMBOLS FOR RCA SEMICONDUCTORS

^{IC} Collector Current, ^{IO} Average Rectified Forward Current, ^{IT} RMS on-state current, ^{NF} Noise Figure, ^{PO} Power Output continuous, ^{PSV} Supply Voltage, ^{PT} transistor power dissipation, ^{VCE} collector to

emitter saturation voltage, ^{VCEO} Collector to Emitter Voltage, ^{VDRM} Repetitive peak off state voltage, ^{VDS} Drain to source voltage, ^{VRRM} repetitive peak reverse voltage.

SPECIFY MANUFACTURERS NAME AND NUMBER ON YOUR ORDER

RCA MOS FIELD EFFECT TRANSISTORS SINGLE GATE TYPES

RCA Type	Package	VDS	Usable to MHz	1-99 Each	100-999 Each	1000 up
3N128	TO-72	20	250	\$1.29	\$0.94	\$0.78
3N138	TO-72	35	250	2.89	2.10	1.75
3N139	TO-72	35	250	2.48	1.80	1.50
3N142	TO-72	20	176	1.04	.78	.83
3N143	TO-72	20	250	1.30	.95	.79
3N152	TO-72	20	250	1.62	1.18	.98
3N163	TO-72	20	250	1.42	1.03	.86
3N154	TO-72	20	250	1.49	1.08	.90
40467A	TO-72	20	220	1.24	.90	.75
40468A	TO-72	20	125	.75	.54	.45
40559A	TO-72	20	125	.70	.51	.42

DUAL GATE TYPES

RCA Type	Package	VDS	Usable to MHz	1-99 Each	100-999 Each	1000 up
3N140	TO-72	20	300	1.62	1.18	.98
3N141	TO-72	20	300	1.45	1.06	.88
3N159	TO-72	20	300	2.06	1.50	1.25
40600	TO-72	20	250	1.24	.90	.75
40801	TO-72	20	250	1.18	.84	.70
40602	TO-72	20	75	.83	.60	.50
40603	TO-72	20	150	1.04	.76	.63
40604	TO-72	20	150	.88	.71	.59

DUAL GATE-PROTECTED TYPES

RCA Type	Package	VDS	Usable to MHz	1-99 Each	100-999 Each	1000 up
3M187	TO-72	20	300	2.72	1.98	1.65
3M200	TO-72	20	500	4.30	3.18	2.65
40673	TO-72	20	400	1.01	.73	.61
40819	TO-72	25	300	1.73	1.26	1.05
40820	TO-72	20	250	.94	.68	.57
40821	TO-72	20	250	.89	.65	.54
40822	TO-72	18	150	.86	.62	.52
40823	TO-72	18	150	.81	.59	.49
40841	TO-72	18	500	.68	.49	.41

RCA RF AND MICROWAVE TRANSISTORS Si-NPN

^{VCE} instead of Power Supply Voltage

RCA Type	Package	PSV	NF db/ 1-99	1-99 Each	100-999 Each	1000 up
2N918	TO-72	6-15*	80 NF6	\$1.15	\$0.84	\$0.70
2N1491	TO-5	20	70 01	1.82	1.32	1.10
2N1482	TO-5	30	70 1	4.29	3.12	2.60
2N1493	TO-5	50	70 5	7.01	5.10	4.25
2N2631	TO-39	28	50 7.5	3.80	2.76	2.30
2N2857	TO-72	6-15*	450 NF4.5	2.72	1.98	1.65
2N2876	TO-60	28	50 10	11.25	9.30	7.75
2N3118	TO-5	28	50 1	4.95	3.60	3.00
2N3119	TO-5	28	50 1	5.36	3.90	3.25
2N3229	TO-60	50	50 15	22.21	18.38	15.32
2N3282	TO-39	High Speed Switching	7.43	5.40	4.50	
2N3375	TO-60	28	400 3	9.90	7.20	6.00
2N3478	TO-72	6-15*	200 NF4.5	1.48	1.08	.90
2N3553	TO-39	28	175 2.5	3.80	2.76	1.83
2N3600	TO-72	6-15*	200 NF4.5	2.14	1.56	1.30
2N3632	TO-60	28	175 13.5	11.50	9.50	7.93
2N3733	TO-60	28	400 10	12.70	10.50	8.76
2N3839	TO-72	6-15*	450 NF3.9	8.90	7.20	6.00

RF & MICROWAVE TRANSISTORS (Continued)

RCA Type	Package	PSV	MHz	PoW	NF db/ 1-99	100-999 Each	1000 up
2N3866	TO-39	28	400 1	\$ 1.58	\$ 1.155	0.98	
2N4012	TO-60	28	1000 2.5	14.20	11.75	9.80	
2N4427	TO-39	12	175 1	1.78	1.30	1.08	
2N4440	TO-60	28	400 5	10.30	8.50	7.10	
2N4932	TO-60	13.5	88 12	29.00	24.00	20.00	
2N4933	TO-60	24	88 20	29.00	24.00	20.00	
2N5016	TO-60	28	400 15	29.00	24.00	20.00	
2N5070	TO-60	28	30 25PEP	29.00	24.00	20.00	
2N5071	TO-60	24	76 24	29.00	24.00	20.00	
2N5090	TO-60	28	400 1.2	11.40	8.30	6.90	
2N5102	TO-60	24	138 15	21.75	18.00	15.00	
2N5108	TO-39	28	1000 1	10.70	7.80	6.50	
2N5109	TO-39	15	200 NF3	2.80	2.05	1.70	
2N5179	TO-72	6*	200 NF4.5	.81	.59	.49	
2N5913	TO-39	12	470 2	3.63	2.64	2.20	
2N5914	TO-216AA	12	470 2	9.90	7.20	6.00	
2N5915	TO-216AA	12	470 6	10.88	9.00	7.50	
2N5916	TO-216AA	28	400 2	12.33	10.20	8.50	
2N5917	HF-31	28	400 2	11.60	9.60	8.00	
2N5918	TO-216AA	28	400 10	17.40	14.40	12.00	
2N5919	TO-216AA	28	400 18	21.75	18.00	15.00	
2N5992	TO-216AA	12.5	88 7	8.25	6.00	5.00	
2N5993	TO-216AA	12.5	88 18	11.60	9.60	8.00	
2N5994	TO-216AA	28	175 35	18.16	15.00	12.50	
2N5995	TO-216AA	12.5	175 7	8.25	6.00	5.00	
2N5996	TO-216AA	12.5	175 15	11.60	9.60	8.00	
40080	TO-5	12	27 1	1.08	.78	.65	
40081	TO-5	12	27 4	1.41	1.02	.85	
40082	TO-39	12	27 3	4.04	2.94	2.45	
40280	TO-39	13.5	175 1	4.62	3.36	2.80	
40281	TO-60	13.5	175 4	10.60	8.76	7.30	
40290	TO-39	12.5	135 2	2.48	1.80	1.50	
40291	TO-60	12.5	135 2	10.40	7.55	6.30	
40446	TO-39	12	27 3	4.29	3.12	2.60	
40581	TO-39	12	27 3.5	4.87	3.54	2.95	
40582	TO-39	12	27 3.5	5.12	3.72	3.10	
40665	TO-60	28	175 13.5	14.00	11.65	9.70	
40666	TO-60	28	400 3	12.00	8.85	8.20	

RCA POWER TRANSISTORS Ge-PNP

0.03 MHz to 0.3 MHz (fT). Max. ratings Shown

RCA Type	Package	VCEO	PoW	ICA	1-99 Each	100-999 Each	1000 up
2N3732	TO-3	-100	3	-3	\$1.65	\$1.20	\$1.00
2N3731	TO-3	-320	5	-10	2.81	2.04	1.70
2N4346	TO-3	-320	5	-10	3.63	2.64	2.20
40439	TO-3	-320	5	-10	2.56	1.86	1.55
40440	TO-3	-200	6	-10	1.98	1.44	1.20
2N1184	TO-8	-20	7.5	-3	2.48	1.80	1.50
2N1184A	TO-8	-30	7.5	-3	3.14	2.28	1.90
2N351	TO-3	-30	10	-3	1.90	1.38	1.15
2N376	TO-3	-30	10	-3	2.06	1.50	1.25
2N3730	TO-3	-200	10	-3	2.23	1.62	1.35
2N2148	TO-3	-40	12.5	-5	1.49	1.08	.90
40022	TO-3	-32	12.5	-5	.75	.55	.45
40050	TO-3	-40	12.5	-5	1.18	.85	.70
40051	TO-3	-50	12.5	-5	1.40	1.02	.85

POWER TRANSISTORS (Continued)

RCA Type	Package	VCEO	PoW	ICA	1-99 Each	100-999 Each	1000 up
40254	TO-3	-32	12.5	-5	.76	.55	.45
40462	TO-3	-40	12.5	-5	1.16	.84	.70
2N301/							
2N2869	TO-3	-50	30	-10	1.82	1.32	1.10
2N301A/							
2N2870	TO-3	-50	30	-10	3.22	2.34	1.95
2N1805	TO-3	-50	30	-8	4.13	3.00	2.50
40421	TO-3	-50	12.5	-5	1.65	1.20	1.00

*.3 MHz to 3 MHz.

RCA POWER TRANSISTORS Si PNP

3 MHz to 30 MHz (fT)

RCA Type	Package	VCEO	PoW	ICA	1-99 Each	100-999 Each	1000 up
2N5415	TO-5	-200	10	-1	1.24	.90	.75
2N5416	TO-5	-300	10	-1	1.60	1.18	.98
2N5781	TO-5	-85	10	-3.5	1.41	1.02	.85
2N5782	TO-5	-50	10	-3.5	1.24	.90	.75
2N6783	TO-5	-40	10	-3.5	1.18	.84	.70
2N6954	TO-68	-75	40	-6	2.15	1.56	1.30
2N6955	TO-68	-60	40	-6	1.90	1.38	1.15
2N6956	TO-68	-40	40	-6	1.65	1.20	1.00

30 MHz to 300 MHz (fT) Si PNP

RCA Type	Package	VCEO	PoW	ICA	1-99 Each	100-999 Each	1000 up
40406	TO-5	-50	1	-0.7	.76	.55	.46
40410	TO-5	-30	1	-0.7	.89	.65	.54
40391	TO-5	-40	3.5	-1	.81	.59	.49
40318	TO-5	-40	5	-0.7	.71	.52	.43
40382	TO-5	-70	5	-0.7	.76	.55	.48
40537	TO-5	-55	5	-0.7	.69	.50	.42
40538	TO-5	-55	5	-0.7	.59	.43	.36
2N4038	TO-5	-85	7	-1	.89	.65	.54
2N4037	TO-5	-40	7	-1	.73	.53	.44
2N4314	TO-5	-65	7	-1	.81	.59	.49
40394	TO-5	-40	7	-1	.81	.59	.49
40815	TO-5	-40	7	-1	.86	.62	.52
2N5322	TO-5	-75	10	-2	1.40	1.02	.85
2N5323	TO-5	-50	10	-2	1.01	.73	.61
40585	TO-5	-95	10	-2	1.44	1.04	.87

RCA POWER TRANSISTORS Si NPN

0.3 MHz to 3 MHz.

RCA Type	Package	VCEO	PoW	ICA	1-99 Each	100-999 Each	1000 up
2N1479	TO-5	40	5	1.5	1.07	.78	.65
2N1480	TO-5	55	5	1.5	1.24	.90	.75
2N1481	TO-5	40	5	1.5	1.24	.90	.75
2N1482	TO-5	55	5	1.5	1.40	1.02	.85
2N1700	TO-5	40	5	1	1.20	1.38	1.15
2N5189	TO-39	35	5	5	.76	.56	.46
2N5262	TO-39	50	5	1	1.62	1.18	.98
40367	TO-5	55	5	1.5	7.84	5.70	4.75
40372	TO-68	55	5	4	9.9	7.2	6.0
40373	TO-66	140	5.8	3	1.57	1.14	.95
40347	TO-5	40	8.75	1.5	.76	.54	.45
40348	TO-5	65	8.75	1.5	1.06	.77	.64
40349	TO-5	140					

RCA SEMICONDUCTORS

POWER TRANSISTORS (Continued)

0.3 MHz to 30 MHz - Si NPN						
RCA Type	Package	V _{CEO}	P _{Tw}	I _C A	1-99 Each	100-1000 999 up
2N5785	TO-5	50	10	3.5	1.08	.78 .65
2N5786	TO-5	40	10	3.5	.99	.72 .60
2N1483	TO-8	40	25	3	1.65	1.20 1.00
2N1484	TO-8	40	25	3	1.82	1.32 1.10
2N1485	TO-8	40	25	3	1.82	1.32 1.10
2N1486	TO-8	40	25	3	1.98	1.44 1.20
2N1701	TO-8	40	25	2.5	2.31	1.68 1.40
2N3054	TO-66	55	25	4	.94	.69 .57
2N3441	TO-86	140	25	3	1.49	1.08 .90
40368	TO-8	55	25	3	11.60	9.60 8.00
40250	TO-66	40	29	4	.94	.69 .57
40310	TO-66	35	29	4	.91	.66 .55
40312	TO-66	60	29	4	.93	.67 .56
40316	TO-66	40	29	4	.99	.72 .60
40324	TO-66	35	29	4	\$.91	\$.66 \$.55
2N5295	TO-220AA	70	36	4	.81	.59 .49
2N5294	TO-220AB	70	36	4	.81	.59 .49
2N5293	TO-220AA	40	36	4	.81	.59 .49
2N5296	TO-220AB	40	36	4	.81	.59 .49
2N5297	TO-220AA	60	36	4	.86	.62 .52
2N5298	TO-220AB	60	36	4	.86	.62 .52
2N5490	TO-220AB	40	50	7	.96	.70 .58
2N5491	TO-220AA	40	50	7	.96	.70 .58
2N5492	TO-220AB	55	50	7	.96	.70 .58
2N5493	TO-220AA	55	50	7	.96	.70 .58
2N5494	TO-220AB	40	50	7	.96	.70 .58
2N5495	TO-220AA	40	50	7	.96	.70 .58
2N5496	TO-220AB	70	50	7	1.04	.76 .63
2N5497	TO-220AA	70	50	7	1.04	.76 .63
40816	TO-220AA	45	50	4	.91	.66 .55
2N1487	TO-3	40	75	6	2.06	1.50 1.25
2N1488	TO-3	55	75	6	2.15	1.56 1.30
2N1489	TO-3	40	75	6	2.16	1.58 1.30
2N1490	TO-3	55	75	6	2.39	1.74 1.45
2N1702	TO-3	40	75	5	4.54	3.30 2.75
40369	TO-3	55	75	6	13.05	10.80 9.00
2N5034	Plas.	40	83	6	1.34	.98 .81
2N5035	Plas.	40	83	6	1.32	.96 .80
2N5036	Plas.	50	83	8	1.42	1.04 .86
2N5037	Plas.	50	83	8	1.41	1.02 .85
40513	Plas.	45	83	6	1.24	.90 .75
40514	Plas.	45	83	6	1.26	.92 .76
40542	Plas.	50	83	6	1.31	.95 .79
40543	Plas.	60	83	8	1.37	1.00 .83
2N4347	TO-3	120	100	5	2.06	1.50 1.25
2N3055	TO-3	60	115	15	1.42	1.05 .90
40363	TO-3	70	115	15	1.49	1.08 .90
40636	TO-3	95	115	15	1.65	1.20 1.00
2N3442	TO-3	140	117	10	2.89	2.10 1.75
40251	TO-3	40	117	15	1.49	1.08 .90
40325	TO-3	35	117	15	1.57	1.14 .95
2N4348	TO-3	120	120	10	3.14	2.28 1.90
2N2015	TO-36	50	150	10	9.08	6.60 5.90
2N2016	TO-36	65	150	10	9.90	7.20 6.00
2N2338	TO-36	40	150	7.5	6.60	4.80 4.00
2M3771	TO-3	40	150	30	3.14	2.28 1.90
2M3772	TO-3	60	150	20	3.14	2.28 1.90
2M3773	TO-3	140	150	16	4.79	3.48 2.90
40411	TO-3	90	150	30	3.30	2.40 2.00
2N5575	TO-3	50	300	80	26.10	21.60 18.00
2N5576	TO-3	50	300	80	26.10	21.60 18.00
2N5577	TO-3	50	300	80	29.00	24.00 20.00
2N5578	TO-3	70	300	60	29.00	24.00 20.00
2N5579	TO-3	70	300	60	29.00	24.00 20.00
2N5580	TO-3	70	300	60	31.90	26.40 22.00

3 MHz to 30 MHz - Si NPN

40390	TO-5	250	3.5	1	1.06	.77 .84
40321	TO-5	300	5	0.5	.86	.63 .52
40327	TO-5	300	5	0.5	.87	.64 .53
40374	TO-66	175	5.8	2	1.57	1.14 .96
2N3439	TO-5	350	10	1	1.19	.86 .72
2N3440	TO-5	250	10	1	.89	.65 .54
2N4063	TO-5	350	10	1	1.35	.98 .82
2N4064	TO-5	250	10	1	1.06	.77 .64
40346	TO-5	175	10	1	.64	.47 .39
40385	TO-5	350	10	1	5.36	3.90 3.02
40412	TO-5	250	10	1	1.06	.76 .64
2N3583	TO-66	175	35	2	1.32	.96 .80
2N3584	TO-66	250	35	2	1.90	1.38 1.15
2N3585	TO-66	300	35	2	2.31	1.68 1.40
2N4240	TO-66	300	35	2	2.06	1.50 1.25
40313	TO-66	300	35	2	1.55	1.13 .94
40318	TO-66	300	35	2	1.55	1.13 .94
40322	TO-66	300	35	2	1.57	1.14 .95
40328	TO-66	300	35	2	1.58	1.15 .96
2N3263	Rad.	90	84	25	46.40	38.40 32.00
2N3264	Rad.	60	84	25	40.60	33.60 28.00
2N5239	TO-3	225	100	5	2.97	2.16 1.80
2N5240	TO-3	300	100	5	3.47	2.52 2.10
2N5838	TO-3	250	100	5	2.72	1.98 1.65
2N5839	TO-3	275	100	5	2.89	2.10 1.75
2N5840	TO-3	350	100	5	3.22	2.34 1.95
2N5804	TO-3	225	110	8	4.54	3.30 2.75
2N5805	TO-3	300	110	8	4.95	3.62 3.00
2N3265	TO-63	90	125	25	47.15	39.00 32.80
2N3266	TO-63	60	125	25	40.45	33.50 27.90
30 MHz to 300 MHz - Si NPN						
40407	TO-5	50	1	0.7	.58	.42 .35
40408	TO-5	90	1	0.7	.84	.61 .51
2N718A	TO-18	32	1.8	1	1.08	.78 .65
2N720A	TO-18	80	1.8	1	1.32	.96 .80
2N2895	TO-18	65	1.8	1	1.44	1.02 .85
2N2896	TO-18	90	1.8	1	2.06	1.50 1.25
2N2897	TO-18	45	1.8	1	1.16	.84 .70
40404	TO-18	40	1.8	1	.99	.72 .60
2M697	TO-5	40	2	0.5	.41	.30 .25
2M699	TO-5	80	2	0.5	.91	.66 .53

POWER TRANSISTORS (Continued)

30 MHz to 300 MHz - Si NPN						
RCA Type	Package	V _{CEO}	P _{Tw}	I _C A	1-99 Each	100-1000 999 up
2N1613	TO-5	50	3	1	.50	.36 .30
2N1711	TO-5	50	3	1	.68	.49 .41
2N1893	TO-5	80	3	0.5	.81	.59 .49
40409	TO-5	90	3	0.7	.87	.64 .53
40389	TO-5	40	3.5	0.7	.74	.54 .45
2N3119	TO-5	80	4	0.5	5.36	3.90 3.25
2N2102	TO-5	65	5	1	1.07	.78 .65
2N2270	TO-5	45	5	1	.59	.43 .36
2N2405	TO-5	90	5	1	1.57	1.14 .85
2N3053	TO-5	40	5	0.7	.48	.33 .29
40309	TO-5	18	5	0.7	.58	.42 .35
40311	TO-5	30	5	0.7	.59	.43 .36
40314	TO-5	40	5	0.7	.61	.44 .37
40315	TO-5	35	5	0.7	.59	.43 .36
40317	TO-5	40	5	0.7	.61	.44 .37
40320	TO-5	40	5	0.7	.61	.44 .37
40323	TO-5	18	5	0.7	.58	.42 .35
40326	TO-5	40	5	0.7	.61	.44 .37
40360	TO-5	70	5	0.7	.79	.58 .48
40361	TO-5	70	5	0.7	.83	.60 .50
40366	TO-5	65	5	1	5.36	3.90 3.25
40539	TO-5	55	5	0.7	.53	.38 .32
40635	TO-5	75	5	0.7	.63	.46 .38
40375	TO-66	50	5.8	7	1.82	1.32 1.10
40392	TO-5	40	7	0.7	.74	.54 .45
40544	TO-5	50	7	0.7	.58	.42 .35
2N3262	TO-5	80	8.75	1.5	7.43	5.40 4.50
2N5320	TO-5	75	10	2	1.14	.83 .69
2N5321	TO-5	50	10	2	.91	.66 .55
40594	TO-5	95	10	2	1.24	.90 .78
2N3878	TO-66	50	35	7	1.57	1.14 .95
2N3879	TO-66	75	35	7	2.48	1.80 1.50
2N5202	TO-66	75	35	4	2.48	1.38 1.15
40364	TO-66	60	35	7	1.73	1.26 1.05
2N5038	TO-66	90	140	20	5.78	4.20 3.50
2N5039	TO-66	75	140	20	4.87	3.54 2.95
2N5671	TO-3	90	140	30	15.80	13.10 10.90
2N5672	TO-3	120	140	30	21.60	17.90 14.90
2N6032	TO-3	90	140	50	34.65	28.70 23.90
2N6033	TO-3	120	140	40	46.40	38.40 32.00

RCA THYRISTORS - SILICON TRIACS

Low-Voltage Operation 50 and 60 Hz V _{OROM} = 100 V						
Maximum Ratings Shown						
RCA Type	Pkg.	I _T RMS A @ °C	Gate V Typ.	1-99 Each	100-1000 999 up	1000 up
40531	TO-5	1.6	25	2.2	\$1.73	\$1.26 \$1.06
40534	TO-5	1.9	25	2.2	1.48	1.08 .88
40884	TO-5	1.9	25	2.2	1.36	.99 .82
2N5754	TO-5	2.5	70	2.2	1.19	.82 .72
40525	TO-5	2.5	60	2.2	1.57	1.14 .95
40528	TO-5	2.5	70	2.2	1.29	.94 .78
120V Line Operation 50 and 60 Hz V _{OROM} = 200V						
40532	TO-5	1.6	25	2.2	1.94	1.41 1.18
40535	TO-5	1.9	25	2.2	1.65	1.20 1.00
40685	TO-5	1.9	25	2.2	1.67	1.14 .95
40509	TO-5	2.2	25	2.2	1.85	1.20 1.00
40511	TO-5	2.2	Int. Trig.		2.56	1.86 1.55
2N5755	TO-5	2.5	70	2.2	1.41	1.02 .85
40526	TO-5	2.5	60	2.2	1.78	1.30 1.08
40529	TO-5	2.5	70	2.2	1.49	1.08 .90
40502	TO-66	3.3	25	2.2	1.74	1.26 1.05
40429	TO-66	6	75	2.2	1.57	1.14 .89
40431	TO-5	6	Int. Trig.		2.40	1.76 1.46
40485	TO-5	6	75	2.2	1.49	1.08 .90
40638	TO-5	6	60	2.2	1.67	1.14 .85
40668	TO-220AB	8	80	2.5	1.45	1.08 .88
2N5567	PF	10	85	2.5	3.05	2.22 1.85
2N5569	Stud	10	85	2.5	3.38	2.46 2.05
2N5671	PF	15	80	2.5	3.25	2.36 1.97
2N5673	Stud	15	80	2.5	3.58	2.60 2.17
40575	TO-66	15	70	2.5	2.01	1.50 1.26
40860	PF	30	65	2.5	4.52	3.29 2.74
40862	Stud	30	60	2.5	4.85	3.53 2.94
2N5441	PF	40	70	2.5	5.64	4.10 3.42
2N5444	Stud	40	85	2.5		

RCA SEMICONDUCTORS

RCA RECTIFIERS - SILICON

RCA Type	Pkg.	VRRM Max.	I _o @ °C	1-99 Each	100-999	1000 up	
1N3754	TO-1	100	0.125	85	\$0.32	\$0.23	\$0.19
1N3755	TO-1	200	0.125	65	.33	.24	.20
1N3756	TO-1	400	0.125	85	.35	.26	.21
1N5336	DO-4	50	0.25	150	.38	.27	.22
1N5337	DO-1	100	0.25	150	.40	.29	.24
1N5338	DO-1	200	0.25	150	.45	.32	.27
1N5339	DO-1	300	0.25	150	.50	.36	.30
1N5400	DO-1	400	0.25	150	.56	.41	.34
1N5401	DO-1	600	0.25	150	.79	.57	.48
1N1095	DO-1	500	0.25	150	.61	.48	.40
1N4458	DO-1	600	0.4	150	1.12	.82	.68
1N3562	DO-26	1000	0.4	150	.94	.69	.57
1N4448	DO-1	500	0.425	75	.92	.67	.56
1N3196	DO-26	800	0.5	150	.74	.54	.45
1N3256	DO-26	800	0.5	75	.78	.57	.47
1N3193	DO-26	200	0.75	75	.35	.26	.21
1N3194	DO-26	400	0.75	75	.38	.28	.23
1N3195	DO-26	600	0.75	75	.53	.39	.32
1N3255	DO-26	200	0.75	75	.38	.28	.23
1N3254	DO-26	400	0.75	75	.40	.30	.25
1N3255	DO-26	600	0.75	75	.56	.41	.34
1N5214	DO-26	800	0.75	76	.81	.59	.49
1N5214	DO-26	800	0.75	75	.85	.62	.51
1N1763A	DO-1	400	1	75	.42	.30	.25
1N1764A	DO-1	500	1	75	.52	.38	.31
1N2858A	DO-1	50	1	75	.33	.24	.20
1N2859A	DO-1	100	1	75	.37	.27	.22
1N2860A	DO-1	200	1	75	.40	.28	.24
1N2861A	DO-1	300	1	75	.42	.30	.25
1N2862A	DO-1	400	1	75	.48	.35	.29
1N2863A	DO-1	500	1	75	.58	.42	.35
1N2864A	DO-1	600	1	75	.70	.51	.42

RCA RECTIFIERS - SILICON (Continued)

RCA Type	Pkg.	VRRM Max.	I _o @ °C	1-99 Each	100-999	1000 up	
1N5211	DO-26	200	1	75	\$0.38	\$0.28	\$0.23
1N5212	DO-26	400	1	75	.42	.30	.25
1N5213	DO-26	600	1	75	.56	.41	.34
1N5218	DO-26	200	1	75	.42	.30	.25
1N5216	DO-26	400	1	75	.45	.33	.27
1N5217	DO-26	600	1	75	.60	.44	.36
40642	DO-26	550	1	45	.99	.72	.60
40643	DO-26	450	1	45	.91	.66	.55
40644	DO-26	550	1	45	.83	.60	.50
40266	DO-1	100	2	105	.39	.21	.175
40267	DO-1	200	2	105	.33	.24	.20
1N1812	DO-4	50	5	135	.97	.71	.59
1N1813	DO-4	100	5	135	1.11	.80	.67
1N1814	DO-4	200	5	135	1.72	1.25	1.04
1N1815	DO-4	400	5	135	3.43	2.50	2.08
1N1816	DO-4	600	5	135	4.93	3.59	2.99
1N1341B	DO-4	50	6	150	1.12	.82	.68
1N1342B	DO-4	100	6	150	1.22	.89	.74
1N1344B	DO-4	200	6	150	1.86	1.38	1.13
1N1345B	DO-4	300	6	150	2.74	1.99	1.66
1N1346B	DO-4	400	6	150	3.50	2.84	2.12
1N1347B	DO-4	500	6	150	4.21	3.06	2.55
1N1348B	DO-4	600	6	150	5.02	3.65	3.04
40108	DO-4	50	10	150	.99	.72	.50
40109	DO-4	100	10	150	1.16	.84	.70
40110	DO-4	200	10	150	1.57	1.14	.95
40111	DO-4	300	10	150	2.15	1.56	1.30
40112	DO-4	400	10	150	2.48	1.80	1.50
40113	DO-4	500	10	150	3.14	2.28	1.80
40114	DO-4	600	10	150	3.71	2.70	2.25
40115	DO-4	800	10	150	6.60	4.80	4.00
1N1998A	DO-4	50	12	150	1.09	.79	.66

RCA RECTIFIERS - SILICON (Continued)

RCA Type	Pkg.	VRRM Max.	I _o @ °C	1-99 Each	100-999	1000 up	
1N1200A	DO-4	100	12	150	\$1.25	\$0.91	\$0.76
1N1202A	DO-4	200	12	150	2.28	1.66	1.38
1N1203A	DO-4	300	12	150	3.17	2.30	1.92
1N1204A	DO-4	400	12	150	4.04	2.94	2.45
1N1205A	DO-4	500	12	150	4.82	3.50	2.82
1N1206A	DO-4	600	12	150	5.66	4.17	3.43
40208	DO-5	50	18	150	1.11	.80	.67
40209	DO-5	100	18	150	1.30	.95	.79
40210	DO-5	200	18	150	1.72	1.25	1.04
40211	DO-5	300	18	150	2.34	1.70	1.42
40212	DO-5	400	18	150	2.89	2.10	1.77
40213	DO-5	500	18	150	3.58	2.60	2.17
40214	DO-5	600	18	150	4.13	3.00	2.50
1N248C	DO-5	55	20	150	1.30	.95	.79
1N248D	DO-5	110	20	150	1.39	1.01	.84
1N248E	DO-5	220	20	150	2.26	1.64	1.37
1N195A	DO-5	300	20	150	3.18	2.32	1.93
1N196A	DO-5	400	20	150	4.09	2.98	2.48
1N197A	DO-5	500	20	150	5.36	3.90	3.25
1N198A	DO-5	600	20	150	6.78	4.20	3.50
1N183A	DO-5	50	40	150	1.66	1.36	1.13
1N184A	DO-5	100	40	150	2.19	1.60	1.33
1N185A	DO-5	200	40	150	3.17	2.10	1.92
1N187A	DO-5	300	40	150	4.11	3.20	2.67
1N188A	DO-5	400	40	150	5.58	4.08	3.38
1N189A	DO-5	500	40	150	6.55	4.76	3.87
1N190A	DO-5	600	40	150	7.72	5.62	4.60
45412	DO-26	Diode to Trigger Thyristors			.28	.20	.17

NOTE: DO-4 and DO-5 types are stocked in both positive base (shown) and negative base. For negative base add R to above type numbers, or change A to RA, B to RB, etc. Prices are the same for either polarity.

RCA POWER HYBRID CIRCUITS

RCA Type	Package	Description	1-99 Each	100-999	1000 up
HC1000	HC	7 ampere Pwr. Amp (TA7825)	\$29.00	\$24.00	\$20.00
HC2000	HC	7 ampere Op. Amp (TA7625A)	28.00	24.00	20.00
HC3000	8L-T03	Hi Grain Current Amp. Pair, Darlington (TA8141)	7.01	6.10	4.25
HC3100	8L-T03	Hi Gain, Hi Voltage Current Amp. Pair, Darlington (TA8241)	6.90	5.70	4.75
HC4005A	8L-T03	5 Volt Series Regulator (TA7955)	11.50	9.50	7.95
HC4012A	8L-T03	12 Volt Series Regulator (TA7956)	11.50	9.50	7.95
HC4015A	8L-T03	15 Volt Series Regulator (TA8397)	11.50	9.50	7.95

NOTE: HC1000H and HC2900H, hermetically sealed units are available on special order. Price Each \$38.00

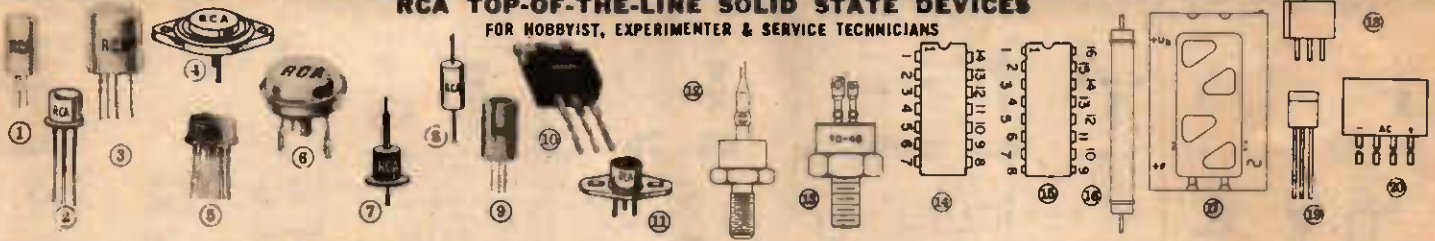
RCA LINEAR INTEGRATED CIRCUITS (Continued)

RCA Type	Package	Description	1-99 Each	100-999	1000 up
CA3072	10L-T05	FM IF Amp 10 V	1.82	1.32	1.10
CA3013	10L-T05	FM IF Amp. Det. Limiter 7.5 V	2.15	1.56	1.30
CA3014	10L-T05	FM IF Amp. Det. Limiter 10 V	2.48	1.80	1.50
CA3015	12L-T05	Wide Band Gen. Purpose Op. Amp.	2.74	1.56	1.30
CA3015A	12L-T05	Wide Band Gen. Purpose Op. Amp.	3.05	2.22	1.85
CA3016	14L-FP	Wide Band Gen. Purpose Op. Amp.	4.30	3.12	2.60
CA3016A	14L-FP	Wide Band Gen. Purpose Op. Amp.	6.52	4.76	3.95
CA3018	12L-T05	2 indiv. NPN + Darlington Pair	1.45	1.06	.88
CA3018A	12L-T05	2 indiv. NPN + Darlington Pair	2.06	1.50	1.25
CA3019	10L-T05	Diode Quad + 2 Diodes	1.62	1.18	.98
CA3020	12L-T05	Multipurpose Broadband Video Amp.	2.58	1.86	1.55
CA3020A	12L-T05	Broadband Amp for Audio & Video	3.26	2.37	1.98
CA3021	12L-T05	Broadband Amp for AM, FM, IF, AGC	3.14	2.28	1.90
CA3022	12L-T05	Broadband Amp for Video and Limiters	2.64	1.92	1.60
CA3023	12L-T05	Broadband Amp for Low Power Drain	2.56	1.86	1.65
CA3026	12L-T05	Dual Diff. Amp to 120 MHz	2.06	1.50	1.25
CA3028A	8L-T05	Differential Amp to 120 MHz	1.47	1.07	.89
CA3028B	8L-T05	Differential Amp to 120 MHz	2.06	1.50	1.25
CA3029	14L-DIP	Wide Band Gen. Purpose Op. Amp.	.81	.59	.49
CA3029A	14L-DIP	Wide Band Gen. Purpose Op. Amp.	1.98	.71	.59
CA3030	14L-DIP	Wide Band Gen. Purpose Op. Amp.	1.82	1.32	1.10
CA3030A	14L-DIP	Wide Band Gen. Purpose Op. Amp.	2.72	1.98	1.65
CA3033	14L-DIP	Hi Current, Hi Power Op. Amp.	4.79	3.48	2.90
CA3033A	14L-DIP	Hi Current, Hi Power Op. Amp.	8.09	5.88	4.90
CA3034	10L-T05	Wide Band Hi Frag. Amp./Det.	2.89	2.10	1.75
CA3035	10L-T05	Hi Gain Wide Band Amp.	2.48	1.80	1.50
CA3036	10L-T05	Dual Darlington NPN Array	1.47	1.07	.89
CA3037	14L-DIP	Wide Band Gen. Purpose Op. Amp.	2.80	2.04	1.70
CA3037A	14L-DIP	Wide Band Gen. Purpose Op. Amp.	4.29	3.12	2.60
CA3038	14L-DIP	Wide Band Gen. Purpose Op. Amp.	4.29	3.12	2.60
CA3038A	14L-DIP	Wide Band Gen. Purpose Op. Amp.	5.78	4.20	3.50
CA3039	12L-T05	Six Matched Diodes Array	1.61	1.17	.98
CA3040	12L-T05	Broadband IF, OC, Video Amp to 200MHz	4.87	3.54	2.95
CA3041	14L-DIP	Wide Band Amp, FM Det., AF Preamp	2.06	1.50	1.25
CA3042	14L-DIP	Wide Band Amp, FM Det., AF Preamp	2.06	1.50	1.25
CA3043	12L-T05	FM IF Amp, Det. Limiter, AF Amp.	2.81	2.04	1.70
CA3044	10L-T05	AF Wide Band Amp, Det. Voltage Reg.	2.31	1.60	1.50
CA3045	14L-DIP	3 NPN Transistors + Differential pair	2.47	1.80	1.50
CA3046	14L-DIP	3 NPN Transistors + Differential pair	4.51	3.18	2.60
CA3047	14L-DIP	Hi Current, Hi Power Op. Amp.	2.81	1.90	1.58
CA3047A	14L-DIP	Hi Current, Hi Power Op. Amp.	4.79	3.48	2.90
CA3048	16L-DIP	4 independent AC Amplifiers	4.04	2.94	2.45
CA3049	12L-T05	Dual Differential Amp to 200 MHz	3.22	2.34	1.95
CA3050	12L-DIP	Dual Differential Darlington NPN	3.71	2.70	2.25
CA3051	14L-DIP	Dual Differential Darlington NPN	2.72	1.98	1.65
CA3052	16L-DIP	4 independent AC Amplifiers	3.14	2.28	1.90
CA3053	8L-T05	Dual Differential Amp to 10.7 MHz	.81	.59	.49
CA3054	14L-DIP	Dual Differential Amp to 120 MHz	2.06	1.50	1.05
CA3065		See CA3085A			
CA3066		See CA3741CT			
CA3067		See CA3741T			
CA3068		See CA3741T			
CA3056A	14L-DIP	Zero Voltage Switch	5.80	4.20	3.50
CA3058	14L-DIP	Zero Voltage Switch	3.20	2.35	1.95
CA3059	14L-DIP	Zero Voltage Switch	8.16	5.95	4.95
CA3060	16L-DIP	Triple Op. Amp.	4.86	3.54	2.95
CA3062	12L-T05	Photo Det. and Power Amp.	2.31	1.68	1.40
CA3064	10L-T05	Wide Band Amp, Det. OC Amp Volt. Reg.	2.31	1.68	1.40
CA3065	14L-DIP	TV IF Amp, FM Det., Audio Driver	2.31	1.68	1.40
CA3066	18L-DIP	TV Chroma Signal Processor	4.29	3.12	2.60
CA3067	16L-DIP	TV Chroma Demodulator	4.46	3.24	2.70
CA3068	20L-DIP	Video IF System	4.95	3.24	3.00
CA3070	16L-DIP	TV Chroma Signal Processor	3.47	2.52	2.10
CA3071	18L-DIP	TV Chroma Amp.	3.30	2.40	2.00
CA3072	14L-DIP	TV Chroma Demodulator	3.38	2.46	2.05
CA3075	14L-DIP	FM IF Amp, Det. Limiter, AF Amp.	2.31	1.68	1.40
CA3076	8L-T05	Hi Gain FM IF Amp, Limiter	2.64	1.92	1.60
CA3080	8L-T05	Micropower Op. Amp.	.97		

RCA SEMICONDUCTORS

RCA TOP-OF-THE-LINE SOLID STATE DEVICES

FOR HOBBYIST, EXPERIMENTER & SERVICE TECHNICIANS



RCA No.	Fig.	Description	Price
SK3003	1	Germanium PNP AF Output, Driver, Low Level Amp. to 9V	\$0.99
SK3004	1	Germanium PNP AF Output, Driver, Low Level Amp. to 15V	1.14
SK3005	1	Germanium PNP RF Amp. Converter, IF Amp. AM 12 V.	1.17
SK3006	3	Germanium PNP RF Amp., IF Amp., Converter AM-FM 108 MHz 15 V.	1.41
SK3007	3	Germanium PNP RF Amp., IF Amp., Converter to 30 MHz 15 V.	1.26
SK3008	1	Germanium PNP RF Amp., IF Ampl. Converter Auto Radio	1.23
SK3009	4	Germanium PNP AF Audio Output Auto Radios, Hi-Fi Amps.	2.34
SK3010	1	Germanium NPN Class A Voltage Amp. & Driver 15 V.	1.26
SK3011	2	Germanium NPN RF Amp., IF Amp. Converter AM 18 V.	1.62
SK3012	6	Germanium PNP Audio Output Auto Radios 5 W.	2.88
SK3013	4	Matched Pair of SK3009	4.58
SK3014	4	Germanium PNP Audio Output 16 V., 5 W.	3.15
SK3015	4	Matched Pair of SK3014	6.30
SK3016	7	Silicon Rectifier 500V @ 1 Amp.	.57
SK3017A	8	Silicon Rectifier 600V @ 1 Amp. Insulated Case	.60
SK3018	3	Silicon NPN VHF TV Tuners, TV IF Amp., FM Tuner 25 V.	1.35
SK3018	3	Silicon NPN UHF TV Oscillator 25 V.	1.47
SK3020	3	Silicon NPN AF Amp. & Driver 25 V.	1.32
SK3021	4	Silicon NPN AF Output for AC Radios, etc., to 120 VDC 1 W. output	1.95
SK3022	5	IC Wide Band Amplifier - Discriminator for TV 7.5 V.	3.36
SK3023	5	IC Wide Band Amp. - Discriminator, 10 Formed Leads for TV 7.5 V.	3.86
SK3024	2	Silicon NPN Audio Driver to 80 Volts	2.70
SK3025	2	Silicon PNP Audio Driver to 80 Volts	1.88
SK3026	4	Silicon NPN Audio Output 40 V.	1.60
SK3027	4	Silicon NPN Audio Output to 80 Volts	3.15
SK3028	4	Matched Pair SK3026 Class A output 5W B-15W.	3.60
SK3029	4	Matched Pair SK3027 Class B output 40W.	6.30
SK3030	8	Silicon Rectifier 200 Volt 1 Amp.	.42
SK3031	8	Silicon Rectifier 400 Volt 1 Amp.	.51
SK3032	8	Silicon Rectifier 800 Volt 1 Amp.	.61
SK3033	7	Silicon Rectifier 1000 Volt 1 Amp.	.81
SK3034	4	Germanium PNP TV Horiz. Driver & Vert. Deflection 36 V.	4.80
SK3035	4	Germanium PNP TV Horizontal-Deflection-Output 36 V.	5.49
SK3036	4	Silicon NPN AF Power Transistor 80 V.	5.85
SK3037	4	Matched Pair SK3036 Output to 100W.	11.70
SK3038	3	Silicon NPN AF Pre-amplifier 18 V.	1.44
SK3039	2	Silicon NPN RF Amp. Mixer, and Converter 15 V.	1.98
SK3040	9	Silicon NPN Video Output 140 V.	2.25
SK3041	10	Silicon NPN AF Power Transistor 18 V.	2.52
SK3042	4	Horizontal Deflection Stages in TV 120 V.	3.96
SK3043	8	Trace, Commutating, Clamp Diode for Hor. Def. in TV	1.80
SK3044	2	Gated ACC. High Voltage Regulator to 275 Volts	5.49
SK3045	11	Video Output, AF Output to 275 Volts for TV	5.67
SK3046	2	RF-Oscillator for CB Transmitter to 12 Volts	1.98
SK3047	2	RF-Driver Stages for CB Transmitter to 12 Volts	2.88
SK3048	2	RF-Output Stages for CB Transmitter to 12 Volts	5.58
SK3049	11	High Power Version of SK3048 to 12 Volts	8.10
SK3050	2	Silicon MOS Depletion RF Amp. to 15V. for VHF TV	3.78
SK3051	8	Silicon Rectifier 1000V, 3 Amp. Insulated Case	1.08
SK3052	4	TO-66 Germanium PNP AF. Output to 18V.	2.35
SK3053	2	Silicon PNP AF Driver, Output to 100V.	4.68
SK3054	10	Silicon NPN AF Driver, Output to 50V.	2.70
SK3055	8	Silicon 3.6V. 1w Zener Diode, Insulated Case	1.08
SK3056	8	Silicon 5.1V. 1w Zener Diode, Insulated Case	1.08
SK3057	8	Silicon 5.6V. 1w Zener Diode, Insulated Case	1.08
SK3058	8	Silicon 6.2V. 1w Zener Diode, Insulated Case	1.08
SK3059	8	Silicon 7.5V. 1w Zener Diode, Insulated Case	1.08
SK3060	8	Silicon 9.1V. 1w Zener Diode, Insulated Case	1.08
SK3061	8	Silicon 10.5V. 1w Zener Diode, Insulated Case	1.08
SK3062	8	Silicon 12.5V. 1w Zener Diode, Insulated Case	1.08
SK3063	8	Silicon 15.5V. 1w Zener Diode, Insulated Case	1.08
SK3064	8	Silicon 27.5V. 1w Zener Diode, Insulated Case	1.08
SK3065	2	Silicon MOS Depletion RF Amp. to 200 MHz.	4.15
SK3066	16	Selenium HV-TV Rectifier 6.5KV. 3MA D.C.	3.15
SK3067	18	Selenium HV-TV Rectifier 13.2KV. 3MA D.C.	4.68
SK3068	16	Selenium HV-TV Rectifier 15.8KV. 3MA D.C.	5.04
SK3069	17	Selenium HV Tripler, 25KV. Color TV.	13.65
SK3070	5	Silicon IC. TV AFC Control 30V.	4.70
SK3071	15	Silicon IC. Stereo Pre-Amp. 14V.	7.00
SK3072	14	Silicon IC. TV Sound IF Amp. 140V.	5.00

RCA No.	Fig.	Description	Price
SK3073	15	Silicon IC. Chroma Proc. Color TV 12V.	6.30
SK3074	15	Silicon IC. Chroma Demod. Color TV 12V.	8.55
SK3075	15	Silicon IC. Chroma Proc. Color TV 24V.	7.00
SK3076	14	Silicon IC. Chroma Amp. Color TV 24V.	7.00
SK3077	14	Silicon IC. Chroma Demod. Color TV 24V.	7.00
SK3078	15	Silicon IC. Stereo Decoder FM-MPX 12V.	7.00
SK3079	4	TD-3 Silicon NPN TV Vert. Output 80V.	4.95
SK3080	8	Silicon Rectifier 1000V, 1 Amp. Insulated Case	.81
SK3081	8	Silicon Rectifier 1000V, 2 Amp. Insulated Case	.90
SK3082	11	AF Output Auto Radio, HiFi Amp 18 V.	2.34
SK3083	10	Vert. Output T.V. 40 V.	2.52
SK3084	10	AF. Output Auto Radio, 18 V.	2.88
SK3085	11	Vert. Output TV 30 V.	4.50
SK3086	11	Matched pair of SK3082	4.68
SK3087	8	Germanium Signal Diode 60 V. 50mA	.33
SK3088	8	Germanium Signal Diode 25 V. 50mA	.33
SK3089	8	Silicon UHF Mixer for TV	.96
SK3090	8	Germanium Signal Diode 80 V. 90mA	.29
SK3091	8	Germanium Video Det. Diode 40 V. 35mA	.33
SK3092	8	Silicon 11.5 V. 1W Zener Diode, Insulated Case	1.08
SK3093	8	Silicon 12.8 V. 1W Zener Diode, Insulated Case	1.08
SK3094	8	Silicon 14.5 V. 1W Zener Diode, Insulated Case	1.08
SK3095	8	Silicon 33 V. 1W Zener Diode, Insulated Case	1.08
SK3096	8	Silicon 55 V. 1W Zener Diode, Insulated Case	1.08
SK3097	8	Silicon 62 V. 1W Zener Diode, Insulated Case	1.08
SK3098	8	Silicon 82 V. 1W Zener Diode, Insulated Case	1.08
SK3099	8	Silicon 110 V. 1W Zener Diode, Insulated Case	1.08
SK3100	8	Sync. Det. Clamp Circuits for TV	.54
SK3101	14	Silicon IC. Sound IF-AF preamp for T.V. 140 V.	3.00
SK3102	14	Silicon IC. Sound IF-AF preamp for T.V. 140 V.	3.80
SK3103	10	AF Output, 120 V. 1W	1.80
SK3104	10	AF. Video Output, Color Amp for T.V.	2.90
SK3105	20	Full Wave Bridge Silicon Rect. 100 V. 2A	1.35
SK3106	20	Full Wave Bridge Silicon Rect. 400 V. 2A	1.98
SK3107	20	Full Wave Bridge Silicon Rect. 1000 V. 2A	4.35
SK3108	16	HV Rectifier for T.V. 20KV., 3mA.	4.40
SK3109	8	HV Boost Rectifier for T.V. 550 V., 2mA	1.15
SK3110	4	Color T.V. Convergence Rect. Array, Selenium	1.08
SK3111	14	Hor. Output for T.V. 100 V. P.S.	8.65
SK3112	19	Small Sig. Ls Noise A.F. Preamp 40 V.	1.35
SK3113	4	Ca. Damper Diode for T.V.	2.25
SK3114	9	Small Sig. Ls Noise A.F. Preamp 55 V.	1.45
SK3115	4	Hor. Output for T.V. 150 V. P.S.	9.90
SK3116	2	RF Amp and Mixer for FM or AM, 15 V.	1.30
SK3117	9	Video IF Amp Stage 12 V.	1.35
SK3118	9	RF Amp for FM or AM 45 V.	.85
SK3119	18	Dual Diode Arrays for T.V. and FM Selenium	.54
SK3120	18	Dual Diode Arrays for T.V. and FM Selenium	.54
SK3121	18	Dual Diode Arrays for T.V. and FM Selenium	.54
SK3122	9	AF and RF Amp for AM, FM, Hi-Fi, 65 V.	1.30
SK3500	12	Silicon Rectifier 600V, 12 Amp. DC	2.25
SK3501	12	Silicon Rectifier 800V 40 Amp. DC	5.31
SK3502	4	SCR TO-66, 600V. 5 Amp. Gate 2V 15 mA	6.40
SK3503	2	SCR 600V 7 Amp. Gate 2V 15 mA	1.42
SK3504	13	SCR 600V 20 Amp. Gate 2V 15 mA	5.31
SK3505	13	SCR 600V. 35 Amp. Gate 2V 40 mA	6.57
SK3506	2	Triac 400V. 2.5 Amp. Gate 2.2 V. 10 mA	4.60
SK3507	4	Triac TO-66, 400V 15 Amp. Gate 2.5 V. 80 mA	6.40
SK3508	13	Triac 400V. 15 Amp. Gate 2.5V 80 mA	7.85
SK3509	13	Triac 400V. 40 Amp. Gate 2.5V. 80 mA	19.25
SK3510	4	TO-3 Silicon NPN, 115W, 15 Amp., 100V.	4.20
SK3511	4	TO-3 Silicon NPN, 150W, 20 Amp., 100V.	6.40
SK3512	2	Silicon NPN. 10W, 2 Amp., 100V.	4.10
SK3513	2	Silicon PNP. 10W, 2 Amp., 100V.	4.60
SK3514	5	IC. High Gain Op. Amp., 15V.	7.45
SK3515	8	Silicon Rectifier 800V., 1 Amp.	2.35
SK3516	12	Silicon Rectifier 800V., 3 Amp.	3.45

*Note: SK3118 has common cathode plus 2 independent diodes. SK3119 has common cathode, SK3120 is series connected, SK3121 has common anode.
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RCA LOW COST 4 AMP SCR



Plastic Case TO-220AB for ignition service, crowbars, fuel igniters, alternator circuits and general purpose uses. Mounting tab is internally connected to the anode lead. Body and tab length .6", width .4". Leads are 5 to .58" long. Mounting hole is .139 to .147" diameter. In illustration top lead is Gate, middle is anode, bottom is cathode. Temperature range -40° to +110°C.

RCA No.	Volts VDRM	Current I _{TAV} °C	Gate Volts Typ. Max.	Gate uA Typ. Max.	1-99 Each	100-999 up	1000 \$0.48
RCA106Y1	30	4 .85	.5 .8	30 200	50.66	\$0.48	\$0.40
RCA106F1	50	4 .85	.5 .8	30 200	.69	.51	.42
RCA106A1	100	4 .85	.5 .8	30 200	.71	.52	.43
RCA106B1	200	4 .85	.5 .8	30 200	.79	.58	.48
RCA106D1	400	4 .85	.5 .8	30 200	1.18	.84	.70
RCA106M1	600	4 .85	.5 .8	30 200	1.39	1.01	.84
RCA107Y1	30	4 .85	.5 .8	325 500	.58	.42	.35
RCA107A1	100	4 .85	.5 .8	325 500	.63	.46	.38
RCA107B1	200	4 .85	.5 .8	325 500	.71	.52	.43
RCA107D1	400	4 .85	.5 .8	325 500	.99	.72	.60
RCA107M1	600	4 .85	.5 .8	325 500	1.37	1.00	.83

SK MOUNTING HARDWARE KITS

RCA No.	Description	Net Each
KH3400	Hardware and socket kit for TO-3	\$0.59
KH3401	Hardware and socket kit for TO-66	.59
KH3402	Mounting kit for TO-36	.59
KH3405	Socket for 8 lead TO-5 (Kit of 2)	2.90
KH3406	Socket for 10 lead TO-5 (Kit of 2)	3.25
KH3407	14 lead DIP. IC Socket, PC board mtg.	1.25
KH3408	16 lead DIP. IC Socket, PC board mtg.	1.35
KH3409	16 or 14 lead DIP. IC Socket, chassis mtg.	1.59

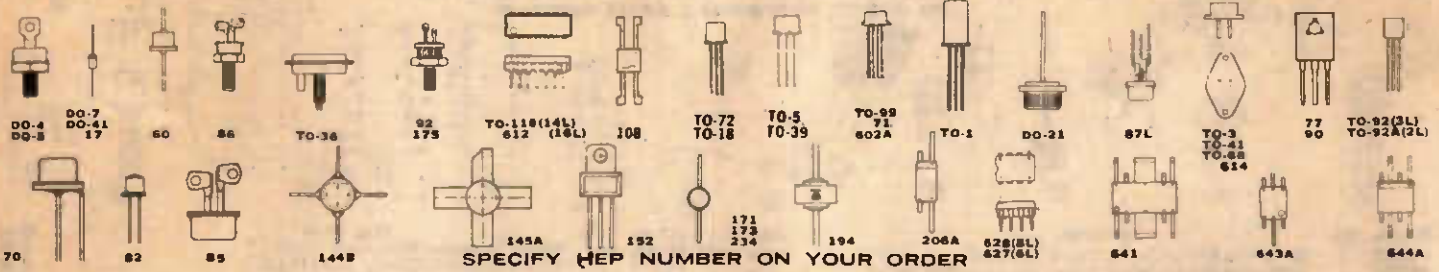
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1	TO-18	Ge RF Transistor—PNP—100 MHz 150 mW 12V.	\$.89
2	TO-5	Ge RF Transistor—PNP—750 MHz 300 mW 22 V.	1.25
3	TO-72	Ge RF Transistor—PNP—250 MHz 100 mW 20 V.	1.25
50	TO-18	Si RF Transistor—NPN—250 MHz 400 mW 25 V.	.79
51	TO-5	Si RF Transistor—PNP—150 MHz 600 mW 30 V.	1.29
52	TO-18	Si RF Transistor—PNP—200 MHz 400 mW 30 V.	.96
53	TO-5	Si RF Transistor—NPN—200 MHz 600 mW 35 V.	1.15
54	TO-92	Si RF Transistor—NPN—30 MHz 310 mW 30 V.	1.08
55	TO-92	Si RF Transistor—NPN—200 MHz 310 mW 30 V.	1.20
56	TO-92	Si UHF Oscillator—NPN—750 MHz 310 mW 30 V.	1.44
57	TO-92	Si RF Transistor—PNP—200 MHz 310 mW 25 V.	1.20
75	TO-39	NPN RF Si Power Transistor 250 MHz 1 W. out. 40 V.	2.95
76	TO-39	PNP RF Si Power Transistor 250 MHz 1 W. out. 40 V.	4.95
101	DO-7	Zener Diode—10 V 400 mW	.95
102	DO-41	Zener Diode—3.8 V 1 W	1.20
103	DO-41	Zener Diode—6.2 V 1 W	1.20
104	DO-41	Zener Diode—9.1 V 1 W	1.20
105	DO-41	Zener Diode—12 V 1 W	1.20
134	TO-18	Ge Diode (1N34A Sub 60 PIV 50 MA)	.26
135	TO-18	Ge Diode (1N60 Sub 40 PIV 30 MA)	.26
151	DO-5	Si Power Rectifier—Stud—50 PIV 15 Amp	1.90
153	DO-5	Si Power Rectifier—Stud—200 PIV 15 Amp	2.45
154	DO-41	Si Rectifier—Axial Lead—50 PIV 1 Amp	.36
156	DO-41	Si Rectifier—Axial Lead—200 PIV 1 Amp	.41
157	DO-41	Si Rectifier—Axial Lead—400 PIV 1 Amp	.46
158	DO-41	Si Rectifier—Axial Lead—600 PIV 1 Amp	.54
159	DO-41	Si Rectifier—Axial Lead—800 PIV 1 Amp	.60
160	DO-41	Si Rectifier—Axial Lead—1000 PIV 1 Amp	.75
161	60	Si "Top Hat" Rectifier—50 PIV 3 Amp	1.08
162	60	Si "Top Hat" Rectifier—200 PIV 3 Amp	1.28
165	TO-92	Si Dual Diode—Common Cathode 70 V. 200 MA	.62
166	TO-92	Si Dual Diode—Common Anode 70 V. 200 MA	.60
170	DO-41	Si Rectifier—Axial Lead—1000 PIV 2.5 Amp	.82
175	108	Full Wave Bridge Rectifier—50 PIV 1 Amp	1.49
176	108	Full Wave Bridge Rectifier—200 PIV 1 Amp	2.05
177	108	Full Wave Bridge Rectifier—400 PIV 1 Amp	2.25
178	108	Full Wave Bridge Rectifier—600 PIV 1 Amp	3.05
200	TO-3	Ge Power Transistor—PNP—TO-3 3 A 90 W. 30 V.	.82
230	TO-3	Ge Power Transistor—PNP—TO-3 5 A 90 W. 30 V.	1.25
231	TO-36	Ge Power Transistor—PNP—TO-36 1.5 A 150 W. 30 V.	1.99
232	TO-3	Ge Power Transistor—PNP—TO-3 7 A 90 W. 70 V.	2.34
233	TO-36	Ge Power Transistor—PNP—TO-36 1.5 A 170 W. 85 V.	4.20
234	TO-3	Ge High Voltage Pwr Transistor—PNP—200 V. 5 A. 56 W.	3.25
236	TO-3	Ge High Voltage Pwr Transistor—PNP—320 V. 10 A. 56 W.	4.50
236	TO-41	Ge High Current Pwr Transistor—PNP—110 V. 25 A. 105 W.	5.70
237	TO-36	Ge Transistor, PNP, Hi-Current - 75 V. 30 A. 170 W.	9.75
238	TO-5	Ge Transistor, PNP, GPA, 60 V. 3 A. 20 W.	4.70
239	TO-5	Ge Transistor, PNP, GPA, 100 V. 3 A. 20 W.	6.50
240	TO-66	Si Power Transistor—NPN - 300 V. 500 MA 10 W.	2.05
241	TO-66	Si High Power Transistor—NPN - 160 V. 5 A. 40 W.	1.78
242	TO-5	Si Med Power Transistor—PNP - 60 V. 3 A. 6 W.	2.40
243	TO-5	Si Med Power Transistor—NPN - 60 V. 3 A. 6 W.	1.78
244	77	Si High Voltage Pwr Transistor—NPN - 300 V. 500 MA 25 W.	2.15
245	77	Si Med Power Transistor—NPN - 60 V. 3 A. 30 W.	1.99
246	77	Si Med Power Transistor—PNP - 80 V. 3 A. 30 W.	2.28
247	TO-3	Si High Power Transistor—NPN - 70 V. 10 A. 150 W.	2.80
248	TO-3	Si High Power Transistor—PNP - 70 V. 10 A. 150 W.	6.49
250	TO-5	Ge Gen. Pur. Transistor—PNP - Med. Gain 200 mW 20 V. 200 mA	.79
251	TO-5	Ge Gen. Pur. Transistor—PNP - Hi Gain 200 mW 20 V. 200 mA	.89
252	TO-5	Ge Gen. Pur. Transistor—PNP - Lo Leakage 200 mW 20 V. 200 mA	.89
253	TO-5	Ge Gen. Pur. Transistor—PNP - Med. Gain 225 mW 20 V. 400 mA	1.20
254	TO-5	Ge Gen. Pur. Transistor—PNP - Med. Gain 225 mW 20 V. 400 mA	1.13
300	86	Thyristor (SCR) - 50 V. 5 A. Gate 30 mA. 10 V. max.	2.29
302	86	Thyristor (SCR) - 200 V. 5 A. Gate 30 mA. 10 V. max.	2.69
304	92	Thyristor (SCR) - 50 V. 15 A. Gate 50 mA. 10 V. max.	4.35
305	92	Thyristor (SCR) Rev. Pol. - 50 V. 15 A. Gate 50 mA. 10 V.	7.18
306	92	Thyristor (SCR) 200 V. 15 A. Gate 50 mA. 10 V. max.	6.90
307	92	Thyristor (SCR) Rev. Pol. 200 V. 15 A. Gate 50 mA. 10 V.	10.73
310	TO-92	Si Unijunction Transistor 300 mW 35 V. 50 mA	1.49
311	TO-92	Si Bilateral Trigger Diode 300 mW 2A. Pulse 28 V.	.99
312	171	Silicon Photo Transistor 30 V. 100 mW	2.49
320	TO-92	Thyristor (SCR) 30 V. 800 mA Gate 200 uA. 5 V. max.	.99
340	86	Triac - 200 V. 8 A. Gate 50 mA. 2 V. max.	4.49
553	71	Integrated Circuit - ECL - Half Adder 6 V. 63 mW	4.10
554	71	Integrated Circuit - ECL - Bias Driver 6 V. 63 mW	2.70
556	71	Integrated Circuit - ECL - 3 Input Gate 6 V. 37 mW	3.87
558	71	Integrated Circuit - ECL - J-K Flip Flop 6 V. 37 mW	4.39
570	TO-116	Integrated Circuit - RTL - Quad Gate 4 V. 250 mW	2.10
571	TO-116	Integrated Circuit - RTL - Dual Buffer 4 V. 250 mW	2.10
572	TO-116	Integrated Circuit - RTL - Dual J-K Flip Flop 4 V. 250 mW	3.90
573	TO-116	IC, RTL, Hex Inverter 4 V. 130 mW	2.30
580	TO-99	Integrated Circuit - RTL - Dual 2-Input Gate 4 V. 10 mW	.85
581	TO-99	Integrated Circuit - RTL - Dual 4-Input Gate 4 V. 8 mW	.95
582	TO-99	Integrated Circuit - RTL - Dual Buffer 4 V. 46 mW	.99
583	TO-99	Integrated Circuit - RTL - J-K Flip Flop 4 V. 23 mW	1.48
584	TO-99	Integrated Circuit - RTL - Dual 2-Input Gate 4 V. 50 mW	1.89
590	71	IC Linear - High Freq. Amp. 20 V. 680 mW	3.89
591	71	IC Linear - Wide Band Amp./Disc. 10 V. 600 mW	3.60
592	71	IC Linear - Stereo Preamp. 16 V. 400 mW	3.25
593	71	IC Linear - 1 W. Audio Power Amp. 18 V. 1 W.	7.95
594	TO-116	FM Stereo Demod. Built-In Sep. Control 22 V. 150 mW	5.92
595	TO-116	FM Stereo Demod. External Sep. Control 22 V. 150 mW	5.92
600	DO-21	Silicon Press-Fit Rect. (Cathode to Case) 200 PIV 25 A	1.11

HEP No.	Case Style	Description	Price Each
601	DO-21	Silicon Press-Fit Rect. (Anode to Case) 200 PIV 25 A.	1.11
602	DO-41	4.7 Volt Zener Diode 1 Watt	1.84
603	DO-41	5.6 Volt Zener Diode 1 Watt	1.84
604	DO-41	11.0 Volt Zener Diode 1 Watt	1.84
605	DO-41	13.0 Volt Zener Diode 1 Watt	1.84
606	DO-41	14.0 Volt Zener Diode 1 Watt	1.84
607	DO-41	15.0 Volt Zener Diode 1 Watt	1.84
608	DO-41	27.0 Volt Zener Diode 1 Watt	1.84
609	DO-41	33.0 Volt Zener Diode 1 Watt	2.49
610	DO-41	56.0 Volt Zener Diode 1 Watt	2.49
611	DO-41	62.0 Volt Zener Diode 1 Watt	2.48
612	DO-41	82.0 Volt Zener Diode 1 Watt	2.49
613	DO-41	110 Volt Zener Diode 1 Watt	3.65
620	85	Thyristor (SCR) 400 V. 8 A. Gate 20 mA. 10 V. max.	4.40
621	87L	Thyristor (SCR) 400 V. 8 A. Gate 20 mA. 10 V. max.	6.25
622	90	Thyristor (SCR) 400 V. 8 A. Gate 10 mA. 10 V. max.	5.10
623	TO-3	Ge Gen. Pur. Audio Pwr Amp.—PNP 600 KHz 77 W. 60 V.	2.20
624	TO-3	Ge Gen. Pur. Audio Pwr Amp.—PNP 600 KHz 77 W. 80 V.	2.20
625	TO-3	Ge Gen. Pur. Audio Pwr Amp.—PNP 5 KHz 50 W. 100 V.	7.10
626	TO-3	Ge Gen. Pur. Audio Pwr Amp.—PNP 1 MHz 85 W. 80 V.	6.35
627	TO-3	Ge Gen. Pur. Audio Pwr Amp.—PNP 700 KHz 85 W. 80 V.	5.20
628	TO-3	Ge Gen. Pur. Audio Pwr Amp.—PNP 600 KHz 77 W. 80 V.	2.20
629	TO-5	Ge Gen. Pur. Audio Amp.—PNP 1 MHz 200 mW 55 V.	2.10
630	TO-5	Ge Gen. Pur. Audio Amp.—PNP 1 MHz 200 mW 55 V.	2.20
631	TO-5	Ge Gen. Pur. Audio Amp.—PNP 1.5 MHz 200 mW 40 V.	2.10
632	TO-5	Ge Gen. Pur. Audio Amp.—PNP 2 MHz 200 mW 40 V.	1.67
633	TO-5	Ge Gen. Pur. Audio Amp.—PNP 2.5 MHz 200 mW 40 V.	1.84
634	TO-5	Ge Gen. Pur. Audio Amp.—PNP 3 MHz 200 mW 40 V.	2.20
635	TO-5	Ge Gen. Pur. Alloy Junct. RF—PNP 100 MHz 150 mW 30 V.	1.32
636	TO-18	Ge Gen. Pur. Alloy Junct. RF—PNP 600 MHz 150 mW 35 V.	1.12
637	TO-72	Ge Gen. Pur. Alloy Junct. RF—PNP 800 MHz 150 mW 20 V.	1.84
638	TO-5	Ge Gen. Pur. Drift Field—PNP 100 MHz 60 mW 30 V.	2.33
639	TO-1	Ge Gen. Pur. Drift Field—PNP 20 MHz 55 mW 18 V.	1.50
640	TO-5	Ge Gen. Pur. Drift Field—PNP 20 MHz 55 mW 18 V.	1.73
641	TO-5	Ge Gen. Pur. Amp.—NPN 150 MHz 150 mW 25 V.	1.32
642	TO-66	Ge Transistor, PNP, Med. Gain 350 KHz 57 W. 30 V.	1.95
643	TO-66	Ge Transistor, PNP, High Gain 350 KHz 57 W. 30 V.	1.98
644	TO-3	Ge Transistor, High Power PNP 50 KHz 85 W. 160 V.	8.50
700	77	Si Gen. Pur. Audio Pwr Amp.—PNP 8 MHz 40 W. 40 V.	2.75
701	77	Si Gen. Pur. Audio Pwr Amp.—NPN 8 MHz 40 W. 40 V.	2.49
702	TO-66	Si Gen. Pur. Audio Pwr Amp.—PNP 8 MHz 25 W. 80 V.	5.25
703	TO-66	Si Gen. Pur. Audio Pwr Amp.—NPN 8 MHz 25 W. 70 V.	2.75
704	TO-3	Si Gen. Pur. Audio Pwr Amp.—NPN 1 MHz 115 W. 100 V.	2.67
705	TO-3	Si Gen. Pur. Audio Pwr Amp.—PNP 4 MHz 87 W. 40 V.	4.20</

MOTOROLA HEP SEMICONDUCTORS

Hep No.	Case Style	Description	Price Each	Hep No.	Case Style	Description	Price Each
C1036P	TO-116	IC-OTL-Hex Inverter (with pullup resistors) 8 V.	\$1.10	R0162	DO-5	Si Stud Mount Rectifier-200PIV 15A	2.20
C1038P	TO-116	IC-OTL-Decade Counter 8 V.	3.95	R0164	DO-5	Si Stud Mount Rectifier-400PIV 15A	3.05
C1039P	TO-116	IC-OTL-Divide-By-Sixteen Counter 8 V.	3.85	R0166	DO-5	Si Stud Mount Rectifier-600PIV 15A	4.60
C1044P	TO-116	IC-OTL-Dual 4-Input NAND Power Gate 8 V.	.98	R0220	DO-21	Si Press-Fit Rectifier-50PIV 26A	.76
C1045P	TO-116	IC-OTL-Clocked Flip-Flop 8 V.	1.25	R0222	DO-21	Si Press-Fit Rectifier-200PIV 25A	1.20
C1046P	TO-116	IC-OTL-Dual 2-Input NAND Power Gate 8 V.	.98	R0250	DO-5	Si Stud Mount Rectifier-50PIV 35A	2.11
C1052P	TO-116	IC-OTL-Dual J-K Flip-Flop 8 V.	1.80	R0251	DO-5	Si Stud Mount Rectifier-100PIV 35A	2.47
C1053P	TO-116	IC-OTL-Dual J-K Flip-Flop 8 V.	1.80	R0253	DO-5	Si Stud Mount Rectifier-200PIV 35A	3.75
C1057P	TO-116	IC-OTL-Quad 2-Input NAND Buffer 8 V.	1.10	R0254	DO-5	Si Stud Mount Rectifier-300PIV 35A	5.45
C1058P	TO-116	IC-OTL-Quad 2-Input NAND Power Gate 8 V.	1.10	R0255	DO-5	Si Stud Mount Rectifier-400PIV 35A	6.20
C1062P	TO-116	IC-OTL-Triple 3-Input NAND Gate 8 V.	.98	R0256	DO-5	Si Stud Mount Rectifier-500PIV 35A	6.70
C2001P	TO-116	IC-RTL-Quad 2-Input Expander 3.6 V.	1.80	R0257	DO-5	Si Stud Mount Rectifier-600PIV 35A	7.50
C2002P	TO-116	IC-RTL-Dual Buffer 3.6 V.	1.80	CJ700	TO-92A	Si UHF Diode (Hat-Carrier)	1.09
C2500P	TO-116	IC-RTL-Dual 4-Input Expander 3.6 V.	1.49	T0-92	TO-92	Thyristor (SCR)-30V 800mA Typ Gate 2mA 5V Max	.86
C2501P	612	IC-RTL-BCD-to-Decimal Decoder 3.6 V.	2.75	R1002	TO-92	Thyristor (SCR)-60V 800mA Typ Gate 2mA 5V Max	.97
C2502P	TO-116	IC-RTL-Quad 2-Input NOR Gate 3.6 V.	1.57	R1003	TO-92	Thyristor (SCR)-100V 800mA Typ Gate 2mA 5V Max	1.19
C2503P	TO-116	IC-RTL-J-K Flip-Flop, 1 Inverter, 2 Buffers 3.6 V.	1.49	R1004	TO-92	Thyristor (SCR)-150V 800mA Typ Gate 2mA 5V Max	1.10
C3000P	TO-116	IC-TTL-Quad 2-Input NAND Gate 5 V.	.98	R1005	TO-92	Thyristor (SCR)-200V 800mA Typ Gate 2mA 5V Max	1.19
C3001P	TO-116	IC-TTL-Quad 2-Input NAND Gate (direct output) 5 V.	.98	R1220	90	Thyristor (SCR)-50V 8A Typ Gate 10mA 10V Max	1.37
C3002P	TO-116	IC-TTL-Quad 2-Input NOR Gate 5 V.	.98	R1221	90	Thyristor (SCR)-200V 8A Typ Gate 10mA 10V Max	1.72
C3004P	TO-116	IC-TTL-Hex Inverter 5 V.	1.18	R1222	90	Thyristor (SCR)-400V 8A Typ Gate 10mA 10V Max	2.31
C3010P	TO-116	IC-TTL-Triple 3-Input NAND Gate 5 V.	.98	R1223	90	Thyristor (SCR)-800V 8A Typ Gate 10mA 10V Max	5.10
C3020P	TO-116	IC-TTL-Dual 4-Input NAND Gate 5 V.	.98	R1241	86	Thyristor (SCR)-50V 8A Typ Gate 20mA 10V Max	2.25
C3030P	TO-116	IC-TTL-8-Input NAND Gate 5 V.	.98	R1242	86	Thyristor (SCR)-100V 8A Typ Gate 20mA 10V Max	2.57
C3040P	TO-116	IC-TTL-Dual 4-Input NAND Buffer 5 V.	.98	R1243	86	Thyristor (SCR)-200V 8A Typ Gate 20mA 10V Max	2.82
C3041P	612	IC-TTL-BCD-to-Decimal Decoder and High-Level Driver 5 V.	3.12	R1244	86	Thyristor (SCR)-300V 8A Typ Gate 20mA 10V Max	3.26
C3050P	TO-116	IC-TTL-Dual 2-Wide 2-Input AND-OR-INVERT Gate 5 V.	.98	R1245	86	Thyristor (SCR)-400V 8A Typ Gate 20mA 10V Max	3.74
C3073P	TO-116	IC-TTL-Dual J-K Flip-Flop 5 V.	1.86	R1246	86	Thyristor (SCR)-500V 8A Typ Gate 20mA 10V Max	6.95
C3075P	612	IC-TTL-Quad Latch 5 V.	3.40	R1247	86	Thyristor (SCR)-600V 8A Typ Gate 20mA 10V Max	9.25
C3400P	TO-116	IC-ECL-85-MHz J-K Flip-Flop 5.2 V.	4.45	R1300	175	Thyristor (SCR)-25V 16A Typ Gate 10mA 10V Max	4.20
C3401P	TO-116	IC-ECL-120-MHz J-K Flip-Flop 5.2 V.	6.60	R1301	175	Thyristor (SCR)-50V 16A Typ Gate 10mA 10V Max	4.75
C3800P	TO-116	IC-TTL-Decade Counter 5 V.	3.80	R1302	175	Thyristor (SCR)-100V 16A Typ Gate 10mA 10V Max	8.95
C3801P	TO-116	IC-TTL-Divides by Twelve Counter 5 V.	3.80	R1304	175	Thyristor (SCR)-200V 16A Typ Gate 10mA 10V Max	7.20
C3802P	612	IC-TTL-Seven-Segment Character Generator 5 V.	3.37	R1306	175	Thyristor (SCR)-300V 16A Typ Gate 10mA 10V Max	9.25
C3803P	TO-116	IC-TTL-Retriggerable Monostable Multivibrator 5 V.	2.45	R1307	175	Thyristor (SCR)-400V 16A Typ Gate 10mA 10V Max	10.80
C3804P	TP-116	IC-TTL-Dual Voltage-Controlled Multivibrator 5 V.	4.63	R1471	175	Thyristor (SCR)-50V 35A Typ Gate 10mA 10V Max	5.40
C3805P	612	IC-TTL-Programmable Module-N Decade Counter 5 V.	10.60	R1472	175	Thyristor (SCR)-100V 35A Typ Gate 10mA 10V Max	6.25
C3806P	TO-116	IC-TTL-Phase-Frequency Detector 5 V.	4.63	R1473	175	Thyristor (SCR)-200V 35A Typ Gate 10mA 10V Max	7.45
C6001	643A	IC-Linear-FM IF Amp (replaces uA703 or CA3053) 20 V.	2.09	R1751	175	Thyristor (SCR)-400V 35A Typ Gate 10mA 10V Max	10.80
C6002	644A	IC-Linear-Low-Noise Audio Preamplifier 33 V.	2.50	R1721	90	Triac-50V 8A Typ Gate 30mA 2V Max	1.25
C6003	206A	IC-Linear-1/2-Watt Audio Amplifier 12 V.	1.95	R1722	90	Triac-100V 8A Typ Gate 30mA 2V Max	1.56
C6004	644A	IC-Linear-1-Watt Audio Amplifier and Preamp. 22 V.	2.90	R1723	90	Triac-200V 8A Typ Gate 30mA 2V Max	1.90
C6005	641	IC-Linear-2-Watt Audio Amplifier and Preamp. 24 V.	4.35	R1725	90	Triac-400V 8A Typ Gate 30mA 2V Max	2.79
C6006	641	IC-Linear-4-Watt Audio Amplifier and Preamp. 26 V.	5.60	R1750	86	Triac-50V 10A Typ Gate 30mA 2V Max	2.50
C6007	206A	IC-Linear-Single Toggle Flip-Flop 19 V.	1.42	R1751	86	Triac-200V 10A Typ Gate 30mA 2V Max	3.71
C6008	643A	IC-Linear-1-Watt Audio Amplifier and Preamp. 20 V.	2.50	R1752	86	Triac-400V 10A Typ Gate 30mA 2V Max	4.95
C6009	643A	IC-Linear-Electronic Remote Control Attenuator 21 V.	2.50	R1761	175	Triac-50V 25A Typ Gate 20mA 3V Max	4.02
C6010	206A	IC-Linear-Wide-Band Amplifier 18 V.	1.53	R1762	175	Triac-100V 25A Typ Gate 20mA 3V Max	5.62
C6049G	602A	IC-Linear-Voltage Regulator (Positive) 9-35 V, 250mA	3.00	R1763	175	Triac-200V 25A Typ Gate 20mA 3V Max	7.55
C6049R	614	IC-Linear-Voltage Regulator (Positive) 9-35 V, 600mA	3.75	R1765	175	Triac-400V 25A Typ Gate 20mA 3V Max	13.20
C6050G	602A	IC-Linear-Balanced Modulator/Demodulator 30 V.	3.35	R2001	TO-92	Si Bidirectional Switch 8V 2A Gate 100uA Max	1.29
C6051L	TO-116	IC-Linear-Dual Operational Amplifier +18-18V, 1W	2.75	R2021	TO-92	Si Unidirectional Switch 8V 2A Gate 500uA Max	1.19
C6052P	626	IC-Linear-Operational Amplifier +18-18 V, 625mW	2.10	R2500	TO-92A	Si Voltage-Variable Capacitance Diode-6.1 to 7.5pF	1.10
C6053G	TO-99	IC-Linear-Operational Amplifier +18-18 V, 680mW	2.20	R2501	TO-92A	Si Voltage-Variable Capacitance Diode-9.0 to 11.0pF	1.10
C6053L	TO-116	IC-Linear-Operational Amplifier +18-18 V, 575mW	2.85	R2502	TO-92A	Si Voltage-Variable Capacitance Diode-13.5 to 16.5pF	1.10
C6054G	602A	IC-Linear-Voltage Regulator (Negative) 9-35 V, 250mA	4.15	R2503	TO-92A	Si Voltage-Variable Capacitance Diode-29.7 to 36.3pF	1.10
C6054R	614	IC-Linear-Voltage Regulator (Negative) 9-35 V, 600mA	4.49	R2504	TO-92A	Si Voltage-Variable Capacitance Diode-50.4 to 61.6pF	1.10
C6055L	TO-116	IC-Linear-Stereo Preamplifier +15-15 V, 400mW	3.85	R2505	TO-92A	Si Voltage-Variable Capacitance Diode-90.0 to 110.0pF	1.10
C6056P	TO-116	IC-Linear-FM Multiplex Stereo Demodulator 22 V.	3.00	S0001	TO-92	Si Gen Pur HV Transistor-NPN-140V 600mA 60MHz	1.05
C6057P	TO-116	IC-Linear-Dual Balanced Chroma Demodulator 30 V.	4.54	S0002	TO-92	Si Gen Pur Osc. Mixer, Amp-NPN 25V 36W 80MHz 160B	.48
C6058P	626	IC-Linear-FM and Color TV Tuning Indicator 20 V.	2.44	S0003	TO-92	Si Gen Pur Osc. Mixer, Amp-NPN 25V 38W 80MHz 80B	.70
C6058P	626	IC-Linear-IF and AGC Amplifier 18 V.	2.24	S0004	TO-92	Si High Freq RF Amp, Mixer, Osc-NPN 50V 31W 400MHz	.94
C6060P	TO-116	IC-Linear-TV FM Limiting Amp., Det., Preamp. & Driver 16 V.	3.47	S0005	TO-92	Si Gen Pur High Voltage Amp-NPN 180V 31W 200MHz	.95
C6061P	TO-116	IC-Linear-High-Grain FM/IF Amplifier 15 V.	3.17	S0006	TO-92	Si Gen Pur Osc. Mixer, Amp-PNP 30V 31W 100MHz	.59
C6062P	TO-116	IC-Linear-FM/IF Amp. with Quadrature Det. 16 V.	4.54	S0007	TO-92	Si Gen Pur Med Voltage Amp-NPN 70V 31W 200MHz	.49
C6063P	TO-116	IC-Linear-FM/IF Amplifier, Limiter, Detector, Driver Electronic Attenuator 12 V.	3.59	S3001	TO-39	Si RF Power Transistor-NPN-65V 1A 5W P out @ 500MHz	3.75
C6064P	627	IC-Linear-Class A Audio Driver 18 V.	2.44	S3002	TO-39	Si Medium Power Transistor-NPN-80V 5A 6W 30MHz	8.20
C6065P	TO-116	IC-Linear-FM Multiplex Stereo Demod.-Exact Repl.	8.25	S3003	144B	Si Medium Power Transistor-PNP-80V 5A 6W 30MHz	23.30
C6066P	TO-116	IC-Linear-Chroma Demod.-Exact Replacement	7.15	S3005	144B	Si RF Power Transistor-NPN-36V 1A 2W P out @ 175MHz	9.55
F0021	TO-92	Field Effect Transistor-VHF/UHF-N-Channel 25 V.	1.89	S3006	145A	Si RF Power Transistor-NPN-36V 5A 25W P out @ 175MHz	24.95
F1035	TO-92	Field Effect Transistor-RF-P-Channel 40V.	1.29	S3008	TO-39	Si RF Power Transistor-NPN-55V 4A 1.5W P out @ 400MHz	2.18
F2004	TO-72	MOS FET-Dual-Gate-VHF-N-Channel 20 V.	2.50	S3010	TO-39	Si Medium Power Transistor-NPN-70V 4A 10W-30MHz	1.90
F2005	TO-72	MOS FET-VHF/UHF-N-Channel 20 V.	2.90	S3020	152	Si Medium Power Transistor-NPN-60V 1A 5W-150MHz	4.43
F2007	206	MOS FET-Dual-Gate-N-Channel 25 V.	1.65	S3021	152	Si High Voltage Transistor-NPN-250V 1A 5W-100MHz	1.85
G6001	TO-3	Ge High Current Pwr Transistor-PNP-90 V, 25 A 85 W.	7.00	S3022	152	Si High Voltage Transistor-NPN-250V 1A 5W-100MHz	1.85
P0001	82	Si Photoresistor-NPN 30V 400mW	4.45	S3023	152	Si General Purpose Amplifier-NPN-35V 1.5A 8W-50MHz	1.40
P0002	173	Si Photoresistor 40 V, 50mW	2.08	S3024	152	Si General Purpose Amplifier-NPN-35V 1.5A 8W-50MHz	1.40
P1001	TO-92	Si Darlington Amp. Photoresistor-NPN 18 V, 200mW	.98	S3025	152	Si General Purpose Amplifier-NPN-35V 1.5A 8W-50MHz	1.40
P2000	171	Light-Emitting Diode See Page 92	1.77	S3026	152	Si General Purpose Amplifier-NPN-35V 1.5A 8W-50MHz	1.40
P2001	234	Light-Emitting Diode See Page 92	1.49	S3027	152	Si General Purpose Amplifier-PNP-35V 1.5A 8W-50MHz	1.55
P2002	171	Infrared-Emitting Diode See Page 92	2.25	S3028	152	Si General Purpose Amplifier-PNP-35V 1.5A 8W-50MHz	1.55
P2003	171	Light-Emitting Diode See Page 92	.80	S3029	152	Si General Purpose Amplifier-PNP-35V 1.5A 8W-50MHz	1.55
R0080	70	Si Press-Fit Rectifier-50PIV 3A	.79	S3030	152	Si General Purpose Amplifier-PNP-35V 1.5A 8W-50MHz	1.55
R0081	70	Si Press-Fit Rectifier-100PIV 3A	.88	S3031	152	Si General Purpose Amplifier-PNP-80V 1A 5W-125MHz	1.75
R0082	70	Si Press-Fit Rectifier-200PIV 3A	1.02	S5000	77	Si General Purpose Power Amplifier-NPN-80V 4A 40W 2MHz	3.20
R0084	70	Si Press-Fit Rectifier-400PIV 3A	1.34	S5001	90	Si General Purpose Power Amplifier-NPN-70V 10A 90W 2MHz	2.39
R0086	70	Si Press-Fit Rectifier-600PIV 3A	1.71	S5002	90	Si General Purpose Power Amplifier-PNP-70V 10A 90W 2MHz	3.79
R0090	60	Si "Top Hat" Rectifier-50PIV 3A	.80	S5003	77	Si General Purpose Power Amplifier-NPN-60V 4A 40W 2MHz	2.65
R0091	60	Si "Top Hat" Rectifier-100PIV 3A	.88	S5004	90	Si General Purpose Power Amplifier-NPN-90V 7A 90W 2MHz	2.42
R0092	60	Si "Top Hat" Rectifier-200PIV 3A	1.02	S5005	90	Si General Purpose Power Amplifier-PNP-90V 7A 90W 2MHz	3.45
R0094	60	Si "Top Hat" Rectifier-400PIV 3A	1.34	S5006	77	Si General Purpose Power Amplifier-PNP-80V 4A 40W 2MHz	3.85
R0096	60	Si "Top Hat" Rectifier-600PIV 3A	1.71	S5007	77	Si General Purpose Power Amplifier-PNP-60V 4A 40W 2MHz	3.05
R0097	60	Si "Top Hat" Rectifier-800PIV 3A	2.39	S5008	90	Si General Purpose Power Amplifier-PNP-40V 5A 65W 2MHz	3.05
R0098	60	Si "Top Hat" Rectifier-1000PIV 3A	3.62	S5009	90	Si General Purpose Power Amplifier-PNP-40V 5A 65W 2MHz	3.85
R0100	194	Si "Axial Lead" Rectifier-50PIV 6A	.89	S5010	90	Si General Purpose Power Amplifier-PNP-40V 5A 65W 2MHz	4.30
R0101	194	Si "Axial Lead" Rectifier-100PIV 6A	1.12	S7000	TO-3	Si High Power Transistor-NPN-100V 30A 200W 2MHz	6.98
R0102	194	Si "Axial Lead" Rectifier-200PIV 6A	1.25	S7001	TO-3	Si High Power Transistor-PNP-100V 30A 200W 2MHz	7.69
R0104	194	Si "Axial Lead" Rectifier-400PIV 6A	1.50	S9001	TO-92	Programmable Unijunction Transistor 40V 2A 375W	1.45
R0106	194	Si "Axial Lead" Rectifier-600PIV 6A	2.39	S9100	TO-92	Si Darlington Amplifier-NPN 30V 3A 5W	.79
R0130	DO-4	Si Stud Mount Rectifier-50PIV 12A	1.23	S9101	77	Si Darlington Amplifier-NPN 60V 4A 40W	2.49
R0131	DO-4	Si Stud Mount Rectifier-100PIV 12A	1.39	S9120	TO-92	Si Darlington Amplifier-PNP 30V 3A 5W	.89
R0132	DO-4	Si Stud Mount Rectifier-200PIV 12A	1.57	S9140	TO-3	Si Darlington Amplifier-NPN-60V 5A 90W	3.09
R0134	DO-4	Si Stud Mount Rectifier-400PIV 12A	1.99	S9141	TO-3	Si Darlington Amplifier-PNP-60V 5A 90W	4.78
R0136	DO-4	Si Stud Mount Rectifier-600PIV 12A	3.05	Z0206	TO-92A	3.3 Volt Zener Diode 500mW	.70
R0137	DO-4	Si Stud Mount Rectifier-800PIV 12A	6.75	Z0208	TO-92A	3.9 Volt Zener Diode 500mW	.70
R0138	DO-4	Si Stud Mount Rectifier-1000PIV 12A	9.40	Z0210	TO-92A	4.7 Volt Zener Diode 500mW</	

MOTOROLA HEP, LED'S, SONALERT, SEMICONDUCTORS

HEP SEMICONDUCTORS—Continued

Hep No.	Case Style	Description	Price Each
Z0214	TO-92A	6.2 Volt Zener Diode 500mW	.70
Z0215	TO-92A	6.8 Volt Zener Diode 500mW	.70
Z0217	TO-92A	8.2 Volt Zener Diode 500mW	.70
Z0219	TO-92A	9.1 Volt Zener Diode 500mW	.70
Z0220	TO-92A	10 Volt Zener Diode 500mW	.70
Z0222	TO-92A	12 Volt Zener Diode 500mW	.70
Z0225	TO-92A	15 Volt Zener Diode 500mW	.70
Z0226	TO-92A	18 Volt Zener Diode 500mW	.70
Z0230	TO-92A	20 Volt Zener Diode 500mW	.70
Z0231	TO-92A	22 Volt Zener Diode 500mW	.70
Z0234	TO-92A	27 Volt Zener Diode 500mW	.70
Z2500	17	3.3 Volt Zener Diode 5 Watt	2.20
Z2502	17	3.9 Volt Zener Diode 5 Watt	2.20
Z2504	17	4.7 Volt Zener Diode 5 Watt	2.20
Z2506	17	5.6 Volt Zener Diode 5 Watt	2.20
Z2508	17	6.2 Volt Zener Diode 5 Watt	2.20
Z2510	17	7.5 Volt Zener Diode 5 Watt	2.20
Z2513	17	9.1 Volt Zener Diode 5 Watt	2.20
Z2514	17	10 Volt Zener Diode 5 Watt	2.20
Z2518	17	12 Volt Zener Diode 5 Watt	2.20
Z2519	17	15 Volt Zener Diode 5 Watt	2.20
Z2522	17	18 Volt Zener Diode 5 Watt	2.20
Z2525	17	22 Volt Zener Diode 5 Watt	2.20
Z2526	17	27 Volt Zener Diode 5 Watt	2.20
Z2531	17	33 Volt Zener Diode 5 Watt	2.20
Z2537	17	56 Volt Zener Diode 5 Watt	2.20
Z2542	17	82 Volt Zener Diode 5 Watt	2.20
Z2545	17	100 Volt Zener Diode 5 Watt	2.20
Z2547	17	120 Volt Zener Diode 5 Watt	3.35
Z3500	DO-4	3.9 Volt Zener Diode 10 Watt	5.65
Z3502	DO-4	4.7 Volt Zener Diode 10 Watt	5.65
Z3504	DO-4	5.6 Volt Zener Diode 10 Watt	5.65
Z3505	DO-4	6.2 Volt Zener Diode 10 Watt	5.65
Z3507	DO-4	7.5 Volt Zener Diode 10 Watt	5.65
Z3511	DO-4	9.1 Volt Zener Diode 10 Watt	5.45
Z3512	DO-4	10 Volt Zener Diode 10 Watt	5.45
Z3514	DO-4	12 Volt Zener Diode 10 Watt	5.45
Z3516	DO-4	15 Volt Zener Diode 10 Watt	5.45
Z3518	DO-4	18 Volt Zener Diode 10 Watt	5.45
Z3520	DO-4	22 Volt Zener Diode 10 Watt	5.45
Z3522	DO-4	27 Volt Zener Diode 10 Watt	5.45
Z3524	DO-4	33 Volt Zener Diode 10 Watt	5.45
Z3530	DO-4	56 Volt Zener Diode 10 Watt	5.45
Z3534	DO-4	82 Volt Zener Diode 10 Watt	5.45
Z3536	DO-4	100 Volt Zener Diode 10 Watt	5.45

MOTOROLA MOUNTING ACCESSORIES

Motorola No.	Description	Each
HEP-450	Transistor Mounting Kit—TO-3	\$0.30
HEP-451	Integrated Circuit Socket (Pkg. of 2) 10 Pin	1.49
HEP-452	Transistor Mounting Kit—TO-66	.32
HEP-453	Integrated Circuit Socket 14 Pin	.99
HEP-454	I.C. Socket—8 Pin—Pkg. of 2	1.49
HEP-455	TO-36 Mounting Kit	.32
HEP-456	Mounting Kit 7/16" Stud	.30
HEP-457	Mounting Kit 11/16" Stud	.32
HEP-300	Heat Sink—TO-3	2.35
HEP-501	Heat Sink—TO-36	2.35
HEP-502	Heat Sink—TO-5	.89

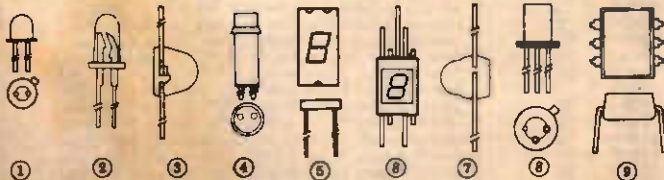
LIGHT EMITTING DIODES



Visible red light emitting diodes for high brightness, used industrially for panel and circuit indicators, light modulators, position encoders, punched card readers, optical switching and logic circuits. Infrared P2002 is similar except its radiated energy is in the 9000 Angstrom region, outside the visible spectrum, for photocell detection. Absence of any filament in these LEDs eliminates time lag in off-on-off operations. Dome shaped units operate on AC or DC. Install proper resistor in series with these LEDs to limit current to forward MA shown.

Motorola No.	Reverse Volts	Forward MA.	Brightness Foot Lamberts	Dia.	Each
HEP-P2000	4.	50	1100	.15	\$1.77
HEP-P2001	3.	40	750	.075	1.49
HEP-P2002	3.	80		.15	2.25
HEP-P2003	4.	50	50	.15	.79

SPRAGUE LIGHT EMITTING DIODES (LED'S)



Solid state reliability, no filaments, no time lag when switched on and off. Exact replacements for original equipment or for experimental, lab and production uses. All are low voltage requiring less than 9 volts. Ask for complete set of technical sheets on these LED'S. Order by Sprague Number.

Sprague No.	Description	Size	Each
ED102	Visible Light Source, Green	1.680 x .203"L	\$5.62
ED123	Panel Indicator Light, Red	1.850 x .340"L	1.17
ED150	Visible Light Source, Red	1.000 x .100"L	.85
ED191	Cartridge Indicator Light, Red	.2880 x .110"L	2.25
ED201	Alpha-Numeric Display, Red .27" high	4.00W x .740"H	12.50
ED203	Alpha-Numeric Display, Red .115" high	1.88W x .240"H	6.50
ED360	Infra-Red Emitter	.0900 x .120L	1.80
ED401	Si. Planar Photo Sensor	.2100 x .208L	6.25
ED702	Coupled Pair Opto-Isolator	.250W x .340L	5.85

No. 16A1216. Complete Set of Technical Sheets on the above ED No's FREE

ELECTRONIC ARRAYS MOS DIGITAL SYSTEMS

STATIC SHIFT REGISTERS (SD Silicone Pkg.)

EA No.	Description	Prices Each		
		1-24	25-99	100 up
EA1004SD	Dual 100 bit. 2 phase clock, 14/SD	\$7.50	\$6.00	\$5.00
EA1005SD	Dual 100 bit. 1 phase clock, 14/SD	7.50	6.00	5.00
DYNAMIC SHIFT REGISTERS				
EA1200	Quad 32 bit. 2 phase, 14/DIP	16.00	12.00	10.70
EA1200SD	Quad 32 bit. 2 phase clock, 14/SD	7.35	5.90	4.90
EA1201	Quad 32 bit. 1 phase, 14/DIP	16.00	12.00	10.70
EA1201SD	Quad 32 bit. 1 phase clock, 14/SD	7.35	5.90	4.90
EA1202	Variable 1-64 bit, 2 phase, 14/DIP	15.00	12.00	10.00
EA1202SD	1-64 bit variable length, 2 ph. cl. 14/SD	6.60	5.30	4.40
EA1203	Variable 1-64 bit, 1 phase, 14/DIP	15.00	12.00	10.00
EA1203SD	1-64 bit variable length, 1 phase clock, 14/SD	6.60	5.30	4.40
EA1204	256 bit, 2 phase, 10/TO-100	20.00	16.00	13.30
EA1205	256 bit, 1 phase, 10/TO-100	20.00	16.00	13.30
EA1205D	256 bit, 1 phase, 14/DIP	22.00	18.00	15.30
EA1206	512 bit with recirculate, 10/TO-100	17.00	13.60	11.30
EA1206SD	512 bit recirculating, 14/SD	9.50	7.60	6.35
EA1210	Quad 256 bit, 10/TO-100	15.00	12.00	10.00
EA1210SD	Dual 256 bit, 14/SD	7.90	6.30	5.25
EA1212	Single 512 bit, 2 phase, 10/TO-100	11.00	8.80	7.30
EA1212SD	512 bit, 14/SD	7.50	6.00	5.00
EA1214	Quad 80 bit, 2 phase 14/DIP	12.00	9.60	8.00
READ/WRITE RANDOM ACCESS MEMORIES				
EA1500	1024 bit, 15V PS, 18/DIP	37.50	30.00	25.00
EA1501	1024 bit, 12V PS, 18/DIP	28.50	24.00	19.50
READ ONLY MEMORIES				
EA3132	Selectric bail/ASCII Converter, 24/DIP	40.00	32.00	—
EA3501	ASCII 5X7 Character Gen-Row 24/DIP	30.00	24.00	—
EA3513	ASCII 5X7 Char. Gen-Lower Case 24/DIP	30.00	24.00	—
EA3701	ASCII 7X5 Char. Gen-Column, 24/DIP	37.00	30.50	—
EA4001	ASCII 7X9 Char. Gen-Column, 24/DIP	60.00	48.00	—
EA4004	ASCII 5X7 Char. Gen., full 128 Char. set-Row, 24/DIP	60.00	48.00	—
EA4015	EBCDIC/ASCII Code Converter, 24/DIP	60.00	48.00	—
EA4016	EBCDIC input Katakana Char., Gen., 24/DIP	60.00	48.00	—
EA4501	ASCII 5X7 Char. Gen., Row, 24/DIP	30.00	24.00	—
STATIC CODE CONVERTERS				
EA4034	EBCDIC/Hollerith, Hollerith/EBCDIC	60.00	48.00	—
EA4035	ASCII/Hollerith, Hollerith/ASCII	60.00	48.00	—
CALCULATOR SETS				
EA-S100	8 Digit Calculator elec. consisting of 6 individual 24 lead circuits, 24/DIP	1-10	11-49	50-99
EA-S111	14 Digit Display, 6 function + memory	90.00	76.50	72.00
EA-S114	16 Digit Display, 4 function	90.00	76.50	72.00
EA-S121	16 Digit Display, 4 function + memory	60.00	51.00	48.00
EA-B100	PC Card for EA-S100, 6 circuit set	75.00	64.00	60.00
1-49 Ea.		\$40.00	50 Ea.	35.00

INTEGRATED CIRCUIT VOLTAGE REGULATOR

Capable of providing a constant output voltage for varying input voltages and varying output load currents. By using conventional electronic components in conjunction with the NJS 300, currents of several amps can be delivered to a load.



Input voltage range +8 to +30 volts.
Output voltage range -1.2 to +20 volts.
Input-Output voltage differential 3 volts minimum, 20 volts maximum.
Minimum load current 3 MA.

Load regulation .5%.
Line regulation .1% change of output voltage per volt change of input voltage.
8 lead TO-5 package.

Order NJS 300, New Jersey Semiconductor, Each \$4.99

IR2160 UNIUNCTION TRANSISTOR

Provides accurate timing and triggering for Silicon Controlled Rectifier circuits. Rating 400 MW, 30 V, max.
I.R. No. IR2160, Each \$1.48 100-999 Each \$1.20

MALLORY SONALERT AUDIBLE SIGNAL DEVICE



Compact solid state circuitry produces a penetrating sound by purely electronic means with no mechanical contacts or adjustments and no RF noise. Use anywhere a completely dependable audio signal is needed. Standard Sonalert output is 68 db to 80 db depending on voltage. SC15 is 60 db, SC6 to SC24 is 70 db. Temperature range -20 to +150 F.

Uses only a few milliamperes current, no contacts to arc. Both types mount in 1-1/8" hole in panel. Standard models have screw-on ring on 7/16" long threaded neck for mounting, are 1-11/16" dia., extend 1-3/8" behind panel. Screw connections Mini Sonalert mounts entirely on front of panel with crimp lugs to secure to panel. Projects 5/8" in front of panel, 1-1/2" dia. Solder terminals. Shpg wt Standard 3 oz.; Mini 2 oz.

STANDARD SONALERTS

Stock No.	Mallory No.	Freq. Hz.	Voltage	1-24 Ea.	25-49 Ea.	50-99 Ea.
12A2443	SC628	2900	6-28 V DC	\$5.50	\$5.40	\$5.15
12A2444	SC628A	2900	6-28 V AC/DC	8.75	8.60	8.20
12A2445	SC628B	4500	6-28 V DC	6.35	6.25	5.95
12A2446	SC628P+	2900	6-28 V DC	8.95	9.75	9.30
12A2448	SC110	2900	110 V AC/DC	8.75	8.60	8.20
MINI SONALERTS						
12A2841	SC15	3500	1-4 VDC	5.27	5.15	4.88
12A2842	SC6	3500	4-8 VDC	5.27	5.15	4.88
12A2843	SC12	3500	8-15 VDC	5.27	5.15	4.88
12A2844	SC18	3500	14-22 VDC	5.27	5.16	4.88
12A2845	SC24	3500	20-30 VDC	5.27	5.15	4.88

NOTE: + gives pulsing sound at 2 to 5 Hz depending on voltage

I. R., MALLORY CLAIREX FENWAL

EXPERIMENTER PHOTOCELLS AND SUN BATTERIES

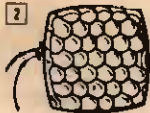
May be used for powering transistor radios, light meters, operating small motors from sunlight. B2MC is $\frac{1}{2} \times \frac{3}{4}$ " with mounting brackets. Others are $\frac{1}{8}$ " square molded case. All have leads.



Int. Rect. No.	Material	Fig.	Output Voltage	MA.	Each
B2MC	Selenium		2-4	2	\$2.30
B3MC	Selenium		2-4	1 1/2-2 1/2	2.40
S1MC	Silicon		3-4	10-16	2.40
S3MC	Silicon		6-85	10-16	4.20
S4MC	Silicon		3-4	25-40	4.40
S5MC	Silicon		6-85	18-25	4.95

2 CADMIUM SULPHIDE PHOTO-CONDUCTIVE CELL

Light-sensitive resistor for use in operating relays, counting devices, door openers, turning on street lights, etc. Does not generate electricity. Enclosed in plastic case. Max. applied volt, 20. Power dissipation, .4 watt. Dark resistance, .11 ohm; resistance 100 FC illumination 1600 ohms. $1\frac{1}{8}$ " square.



International Rectifier CS120. Each

\$2.35

SOLAR CELLS

ENERGIZED FROM SUN OR ARTIFICIAL LIGHT

KIT OF 15 AT LESS THAN ORIGINAL COST OF A SINGLE CELL!



Perfect for science classes, labs, science projects, experimenters, hobbyist. Produces up to $\frac{3}{4}$ volt and up to 5 MA. Assorted sizes from $\frac{3}{4}$ " square to $\frac{3}{4}$ " x $1\frac{1}{2}$ ", some with leads attached. Wt. 6 oza.

No. 18B144

\$2.49

4 Kits

\$8.88

Kit of 15 For

For

LIGHT SENSITIVE PHOTO CELL

ONLY **99c**

Tiny glass enclosed cell, $5/16$ x $1/8$ " dia. Cell resistance changes with light. Operates sensitive AC relay from AC line without amplifier. Interesting and practical circuits included. Shpg. wt. 3 oz. No. 20A22. Spec. Ea. **99c**



SOLAR PHOTOCCELL EXPERIMENTER KITS

7 Piece Kit contains 3 selenium, 2 silicon solar and 2 cadmium sulphide cells. Ideal kit for schools, experimenters and hobbyists.

Int. Rect. K421. Kit of 7 For

\$5.95

4 Selenium Photo Cells with output from $\frac{1}{3}$ to $\frac{1}{2}$ volt and $\frac{1}{2}$ to 2 MA in direct sunlight.

Int. Rect. DD190. Kit of 4 For

99c

EXPERIMENTERS MOTOR

Special Anti-Friction Bearing Type—Designed to operate directly from the power supplied by Solar Cells. Offers many fascinating experiments and science projects. Runs on .3 to 1.5 V. Recommended cell is S4M above.

Int. Rect. EP50C.

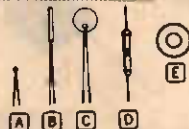
\$3.95

Each

Solar Cell and Photocell Handbook. 75 light operated circuits. Contains projects and demonstrations of selenium and silicon solar cells. 136 pages. No. 16A1118. HB-30. Each **\$2.00**

FENWAL THERMISTORS

Thermistors are thermal resistors of ceramic material combined with metals to obtain a definite decrease in resistance as temperature is increased. Features close tolerance and stability with high reliability and unlimited life. An ideal temperature measuring device. Res. ratio 0° C to 50° C.



For Thermistor applications booklet request No. 16A1153. FREE

Mfg. No.	Fig.	Ohms @ 25° C	Ratio	1-9 Each	10-24 Each	25-99 Each	100-249 Each
GA51J1	A	100K	10.3:1	\$1.96	\$1.57	\$1.28	\$1.18
GA51P2	B	100K	10.3:1	2.00	1.60	1.30	1.20
GB32J2	A	2K	7.3:1	1.96	1.57	1.28	1.18
GB32P8	B	2K	7.3:1	2.35	1.88	1.53	1.41
GD25J1	A	500	5.1:1	3.24	2.60	2.11	1.94
JB25J1	C	500	6.9:1	1.00	.80	.65	.60
JB31J1	C	1K	6.9:1	1.00	.80	.65	.60
JA35J1	C	5K	9.1:1	1.00	.80	.65	.60
KA31L1	C	1K	9.1:1	.85	.68	.56	.51
LB21J1	C	100	6.9:1	.85	.68	.56	.51
NB11J1	C	10	6.9:1	.85	.68	.56	.51
QA51J1	D	100K	9.1:1	1.25	1.00	.82	.75
RB41L1	D	10K	9.1:1	1.20	.96	.78	.72
WA21W1	E	100	9.1:1	1.25	1.00	.82	.75
WB11W1	E	10	6.9:1	1.25	1.00	.82	.75
KB22J1	C	200	6.9:1	.85	.68	.56	.51

THERMISTOR BASIC APPLICATION KIT

Contains 10 glass bead and rod thermistors. Resistance values from 3K to 135K ohms. Complete with applications manual and thermistor computer. G701. Per Kit, Each **\$9.95**

CLAIREX PHOTOCONDUCTIVE CELLS

Resistance tolerance at 2 ft. C $\pm 33\frac{1}{3}\%$. Temp. range—50° to +75° C.

CL5M Series. Maximum power air $\frac{1}{2}$ watt, heat sink 2 watts .550" dia. x .184" high.

Clairax No.	Sensitive Material	Peak Spectral Response (Angstroms)	Resistance @ 2 Ft. C (Ohms)	Max. Voltage Peak AC	1-99 Each	100-499 Each
CL5M3	CdSe	7350	7.2K	—	1.90	1.25
CL5M4	CdSe	6900	1.5K	—	1.90	1.25
CL5M7	CdS	6150	7.2K	—	1.50	1.15

CL500 Series. Maximum power: air $\frac{1}{4}$ watt, heat sink $\frac{1}{2}$ watt. .490" dia. x .500" H.

CL500	CdSe	7350	7.2K	250	\$1.50	\$1.25
CL504	CdSe	6900	1.5K	250	1.50	1.25
CL504L	CdSe	6900	.25K	170	1.50	1.25
CL505	CdS	5500	9K	250	1.50	1.18
CL505L	CdS	5500	1.5K	170	1.50	1.15

CL700 Series. Maximum power 125 MW @ 25° C. .360" dia. x .180" H.

CL700	CdSe	7350	133K	300	1.50	1.25
CL703	CdSe	7350	67K	300	1.50	1.25
CL703M	CdSe	7350	30K	250	1.50	1.25
CL703L	CdSe	7350	2.7K	170	1.50	1.25
CL704	CdSe	6900	30K	300	1.50	1.25
CL704M	CdSe	6900	7K	250	1.50	1.25
CL704L	CdSe	6900	.6K	170	1.50	1.25
CL705	CdS	5500	166K	300	2.00	1.55
CL705L	CdS	5500	3.3K	170	1.50	1.15
CL705HL	CdS	5500	28K	170	1.50	1.35
CL707	CdS	6150	133K	300	1.50	1.18
CL707L	CdS	6150	2.7K	170	1.50	1.15
CL707HL	CdS	6200	10K	170	1.50	1.35

CL600 Series. Maximum power 75 MW @ 25° C. .245" dia. x .550" H.

CL600	CdS	5150	1 Meg	300	1.50	1.15
CL603	CdSe	7350	133K	300	1.75	1.50
CL603A	CdSe	7350	75K	300	1.75	1.50
CL603AL	CdSe	7350	3.5K	170	1.75	1.50
CL604	CdSe	6900	30K	300	1.75	1.50
CL604L	CdSe	6900	1.5K	170	1.75	1.50
CL605	CdS	5500	166K	300	1.50	1.15
CL605L	CdS	5500	7.5K	170	1.50	1.15
CL607	CdS	6150	133K	300	1.50	1.18

CL900 Series. Maximum power 50 MW @ 25° C. .210" dia. x .150" H.

CL900	CdSe	7350	133K	250	1.50	1.25
CL903A	CdSe	7350	67K	250	1.50	1.25
CL903M	CdSe	7350	66K	100	1.50	1.25
CL903L	CdSe	7350	6K	100	1.50	1.25
CL904	CdSe	6900	30K	250	1.50	1.25
CL904M	CdSe	6900	15K	100	1.50	1.25
CL904L	CdSe	6900	2K	100	1.50	1.25
CL905	CdS	5500	166K	250	1.50	1.15
CL905L	CdS	5500	10K	100	1.50	1.15
CL905HL	CdS	5500	700K	100	1.50	1.35
CL905LH	CdS	5500	100K	100	1.50	1.35
CL907	CdS	6150	133K	250	1.50	1.15
CL907L	CdS	6150	6K	100	1.50	1.15
CL907HL	CdS	6200	24K	100	1.50	1.35

Clairax Technical Information available. Ask for Stock No. 10A1124—Free.

MALLORY RECTIFIER CIRCUITS

Size .687 x .468 x .25. Black molded insulated case.

Mallory No.	Description	PIV	Amps	1-99	100 Up
FW50	Full wave bridge	50	2	1.17	.78
FW100	Full wave bridge	100	2	1.21	.81
FW200	Full wave bridge	200	2	1.27	.85
FW300	Full wave bridge	300	2	1.33	.89
FW400	Full wave bridge	400	2	1.50	1.00
FW600	Full wave bridge	600	2	1.66	1.11

MALLORY SILICON ZENER DIODES

All types rated at 25° C. Cold case design. Tolerance 10%. .405" long x .24" dia. with $1\frac{1}{4}$ " leads.

Mallory No.	Nom. Zener Volts	1ZT Test mA	ZZT at IZT Ohms	Mallory No.	Nom. Zener Volts	1ZT Test mA	ZZT at IZT Ohms
ZB6.8A	6.8	37	3.5	ZB30A	30	8.5	40
ZB7.5A	7.5	34	4.0	ZB33A	33	7.5	45
ZB8.2A	8.2	31	4.5	ZB36A	36	7.0	60
ZB9.1A	9.1	28	5.0	ZB39A	39	6.5	60
ZB10A	10	25	7	ZB43A	43	6.0	70
ZB11A	11	23	8	ZB47A	47	5.5	80
ZB12A	12	21	9	ZB51A	51	5.0	95
ZB13A	13	19	10	ZB56A	56	4.5	110
ZB15A	15	17	14	ZB62A	62	4.0	125
ZB16A	16	15.5	16	ZB68A	68	3.7	150
ZB18A	18	14	20	ZB75A	75	3.3	175
ZB20A	20	12.5	22	ZB82A	82	3.1	200
ZB22A	22	11.5	23	ZB91A	91	2.8	250
ZB24A	24	10.5	25	ZB100A	100	2.5	350
ZB27A	27	9.5	35				

Choice Each 1-99 **62c** 100 Per Type **41c**

MALLORY UNIVERSAL RECTIFIER

Replaces all axial lead rectifiers rated up to 2 1/2 amps and 1000 V. (PIV). Covers all 600 mA, 750 mA, 1000 mA, 2000 mA, and 2500 mA units, with voltages ranging from 50 PIV to 1000 PIV.

Mallory **M2.5A**. Each **59c** 10 Lots Each **49c**

I. R. SEMICONDUCTORS

I. R. Zener Voltage Regulators

Z1100 through Z1120 .38" dia. x .250" L. Top Hat style. Z1122 through Z1134 .22" dia. x .345" L. Z1300 Series 10-32 stud x 1.16" overall length. Cathode connected to stud through Z1320, anode connected to stud Z1322 and higher. 10% tolerance. Mounting hardware not included. See listing below.



Order By International Rectifier Number

① 1 WATT SIZE				② 10 WATT SIZE			
I.R. No.	Volts	I.R. No.	Volts	I.R. No.	Volts	I.R. No.	Volts
Z1100	3.9	Z1120	27	Z1140	180	Z1322	33
Z1102	4.7	Z1122	33	Z1304	5.6	Z1324	34
Z1104	5.6	Z1124	39	Z1306	6.8	Z1326	47
Z1108	6.8	Z1126	47	Z1308	8.2	Z1328	56
Z1108	8.2	Z1128	56	Z1310	10	Z1330	68
Z1110	10	Z1130	68	Z1312	12	Z1332	82
Z1112	12	Z1132	82	Z1314	15	Z1334	100
Z1114	15	Z1134	100	Z1316	18	Z1336	120
Z1116	18	Z1136	120	Z1320	27	Z1338	150
Z1118	22	Z1138	150				
Your Choice	1-9 Ea. \$0.85	10-99 Ea. \$0.74	100-999 \$0.87	Your Choice	1-9 Ea. \$2.05	10-99 Ea. \$1.85	100-999 \$1.48

1 WATT SILICON ZENER DIODES

Moisture resistant thermosetting polymer. .107" max. dia. x .205" L. Cathode end marked by color band. Available in 10% tolerance (No suffix) and 5% tolerance ("A" suffix).

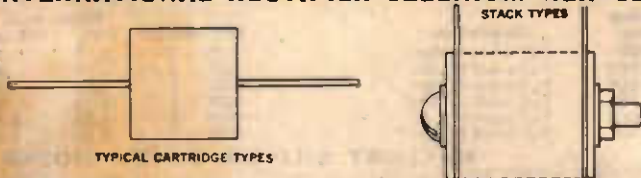
Int. Rect. No.	Nominal Zener Voltage Vz @ Izt Volts	Test Current Izt mA	Max Zener Imped. Zzt @ Izt Ohms	Int. Rect. No.	Nominal Zener Voltage Vz @ Izt Volts	Test Current Izt mA	Max Zener Imped. Zzt @ Izt Ohms
1N4728	3.3	76	10	1N4748	18	14	20
1N4728	3.6	69	10	1N4747	20	12.5	22
1N4730	3.9	64	9	1N4748	22	11.5	23
1N4731	4.3	58	9	1N4749	24	10.5	25
1N4732	4.7	53	8	1N4750	27	9.5	35
1N4733	5.1	49	7	1N4751	30	8.5	40
1N4734	5.6	45	5	1N4752	33	7.5	45
1N4735	6.2	41	2	1N4753	36	7.0	50
1N4736	6.8	37	3.5	1N4754	39	6.5	60
1N4737	7.5	34	4.0	1N4755	43	6.0	70
1N4738	8.2	31	4.5	1N4756	47	5.5	80
1N4739	9.1	28	5.0	1N4757	51	5.0	95
1N4740	10	25	7	1N4758	56	4.5	110
1N4741	11	23	8	1N4759	62	4.0	125
1N4742	12	21	9	1N4760	68	3.7	150
1N4743	13	19	10	1N4761	75	3.3	175
1N4744	15	17	14	1N4762	82	3.0	200
1N4745	16	15.5	16	1N4763	91	2.8	250

10% Tolerance (No suffix) 1N4728 Thru 1N4763. Choice Each 1-99 \$1.25 Asst. Each 100 \$1.05 100 Per Type Each \$3c
 5% Tolerance ("A" suffix) 1N4728A Thru 1N4763A. Choice Each 1-99 \$1.90 Asst. Each 100 \$1.60 100 Per Type Each \$1.40

ZENER DIODE KITS

An assortment of 5 popular 1-watt Zener diodes. Int. Rect. DD-170. Net Each \$1.95
 K-546. 12 assorted Zener diodes, ranging from 400 MW to 10 watts, and from 3 to 27 volts. Int. Rect. K546. Net Each \$6.50
 Zener Diode Handbook. Zener diode AC, DC, Audio, RF, Computer, Instrumentation and circuit protection applications included. 74 pages. No. 16A1120. HB-20. Each \$3.00

INTERNATIONAL RECTIFIER SELENIUM KLIP-SELS



Klip-Sels suppress transient overload voltage peaks to protect solid state rectifiers. Do not adversely affect circuit operation, increases reliability. KY and KZ are round cartridge types with axial leads. KSA have .47" long lugs. B/32 mounting stud. KSL have .89" long lugs. 1/4-20 mounting stud. All are non-polarized. Ratings below are based on average industrial rectifiers.

To Protect rectifiers Rated to 3 Amps (KY Peak 1-25A)

IR No.	Rectifier Ratings		IPeak		Size Inches	1-99 Each	100-999
	Rated Volts	Max. Op. RMS V.	Max. Transient Volts	Max. Clamp Volts			
KY10PF	50	26	75	70	.570 x .83L	\$0.69	\$0.56
KY20PF	100	52	150	140	.570 x .83L	.76	.61
KY50PF	250	130	360	350	.570 x .83L	.98	.76
KY80PF	300	156	425	420	.570 x .88L	1.06	.82
KY100PF	550	260	725	700	.570 x .88L	1.35	1.03
To Protect rectifiers Rated to 16 Amps (KZ Peak 11 A)							
KZ10PF	50	26	75	70	.700 x .83L	.75	.60
KZ20PF	100	52	150	140	.700 x .83L	.88	.70
KZ50PF	250	130	360	350	.700 x .83L	1.24	.98
KZ60PF	300	156	425	420	.700 x .88L	1.36	1.08
KZ100PF	550	260	725	700	.700 x .88L	1.83	1.46
To Protect rectifiers Rated to 60 Amps (KSA Peak 13 A)							
KSA10AF	50	26	75	70	1 sq. x 1.37L	2.00	1.50
KSA2DAF	100	52	150	140	1 sq. x 1.50L	2.20	1.62
KSA5DAF	250	130	360	350	1 sq. x 1.87L	2.80	1.98
KSA6DBF	300	156	425	420	1 sq. x 2.00L	3.00	2.20
KSA10DBF	550	260	725	700	1 sq. x 2.46L	4.55	3.50
To Protect rectifiers Rated to 250 Amps (KSL Peak 115 A)							
KSL10AF	50	26	75	70	2 sq. x 1.62L	2.80	2.10
KSL6DBF	300	156	425	420	2 sq. x 2.37L	9.10	6.80
KSL10DBF	550	260	725	700	2 sq. x 2.96L	14.00	10.50

All International Rectifier Semiconductors Are Available From B-A

INTERNATIONAL RECTIFIER UNIVERSAL RECTIFIER

2 1/2 AMP
1000 PIV



Exact replacement for Mallory M2 5A or Motorola HEP170. Replaces all axial lead rectifiers rated 600 mA, 750 mA, 1000 mA, 2000 mA and 2500 mA units, with voltages ranging up to 1000 PIV. IR R170. Each \$9.95
 10 Lots Each \$9.95

UNIVERSAL 3 AMP FULL WAVE BRIDGE RECTIFIER

Molded case, 1/4" sq. 1/2" thick. Replaces all bridges with voltages ranging up to 1200 volts. No. 18A1563 Special Each \$1.49



RATED 1200 VOLTS



Int. Rect. No.	Fig.	Description	1-99 Each	100-999 Each
1N34A	①	60 Volt, 50 MA Germanium Diode	\$0.24	\$0.21
1N60	①	40 Volt, 50 MA Germanium Diode	.24	.21
1N64	①	25 Volt, 50 MA Germanium Diode	.24	.21
1N82AG	①	25 Volt, 50 MA UHF Silicon Diode	.70	.61
1N87A	①	30 Volt, 50 MA Germanium Diode	.24	.21
1N295	②	50 Volt, 30 MA Germanium Diode	.24	.21
DD04	③	Dual Diode Com. Cath. G.E. Equiv. 6GC1	.55	.44
DD05	③	Dual Diode Series Con. G.E. Equiv. 6GD1	.55	.44
DD06	③	Dual Diode Com. Anode G.E. Equiv. 6GX1	.55	.44

Fig. ③ RADIO & TV LONGLIFE, SELENIUM TYPES

Int. Rect. No.	DC MA	Max RMS Volts	Inches Size	1-4 Each	5-9 Each
E075L	To 75	130	.67x.67x1/2"	\$0.70	\$0.63
E150L	75-150	130	1"x1"	.88	.79
E300L	150-300	130	1 1/2"x1 1/4"x1 1/2"	1.12	.90
E500L	400-500	130	1 1/2"x1 1/2"x1 1/2"	1.40	1.26

Fig. ④ INDUSTRIAL SELENIUM STACKS

Three terminal full wave center tapped, all others bridge.	1-99	100-999				
J14C1*	36	14	1.5	1 1/2"x1 1/2"x1 1/4"	\$1.90	\$1.50
J2981	36	29	1.5	1 1/2"x1 1/2"x1 1/4"	3.50	2.80
J2985	36	29	4.8	3 x3 x2 1/2"	9.70	7.60

SELENIUM BATTERY CHARGING RECTIFIERS

Int. Rect. No.	Fig.	Input V. AC	Output DC V.	Output Amps	Size Inches	1-99	100-999	
JD116K	⑤	16.5	6-12	2	3x3x.5"	\$1.90	\$1.73	
JD117K	⑤	16.5	6-12	3	4x4x.5"	2.53	2.28	
JD241K	⑤	16.5	6-12	6	6x5x.5"	3.85	3.48	
BCF-100	com. Pos.	⑥	33	6-12	50-100†	6x4x3.9"	\$11.70	\$9.25
BCR-100	com. Neg.	⑥	33	6-12	50-100†	6x4x3.9"	11.70	9.25

*Ratings with FAN Cooling.
 †Silicon Universal Rectifier Assembly. 33 VAC input, 6 or 12 VDC output.
 IR No. BC101. 1-99 Each \$15.00 100 up Each \$13.50

J.R. SILICON BRIDGE RECTIFIERS



① 1.8 AMP SILICON FULL WAVE BRIDGE RECTIFIERS
 Single-phase miniature bridge rectifier assemblies. Hermetically sealed and completely insulated. Size .56"x.56"x.22".

I.R. Number	Max. Peak Reverse Voltage	Max. RMS Voltage	Max. dc Output Voltage	Max. dc Output Current (A)	Prices Each	
					1-99	100-999
180B2A	200	142	125	1.8	\$2.00	\$1.35
180B4A	400	282	252	1.8	2.60	1.85
180B6A	600	424	380	1.8	2.90	2.16
180B8A	800	560	500	1.8	3.50	3.00
180B10A	1000	707	625	1.8	5.00	3.76

③ 3 AMP SILICON FULL WAVE BRIDGE RECTIFIERS

Size 1" dia. x .25"	200	140	125	3	4.52	4.07
300B2T	200	140	125	3	4.52	4.07
300B4T	400	280	250	3	4.99	4.62
300B6T	600	420	380	3	5.50	4.98

④ 10 AMP SILICON FULL WAVE BRIDGE RECTIFIERS

Size 2.2"x1.7"x.87"	50	35	30	4.05	3.25
100PB05P	50	35	30	4.05	3.25
100PB1P	100	70	60	4.30	3.35
100PB2P	200	140	120	6.15	4.15
100PB4P	400	280	240	6.35	5.15
100PB6P	600	420	360	8.95	8.00

I.R. & RECTIFIERS, HARDWARE

INTERNATIONAL RECTIFIER SILICON RECTIFIERS

① 1 AMP SILICON RECTIFIERS
Body .205" dia. X .375" long Molded.

Int. Rect. No.	PRV	1-99	100-999
1N2069	200	\$0.32	\$0.28
1N2070	400	.41	.35
1N2071	600	.50	.44

② 1.3 AMP SILICON RECTIFIERS
.24" dia. - Length .405" Metal case.

Int. Rect. No.	PRV	1-99	100-999
10C1	100	\$0.32	\$0.29
10C2	200	.35	.32
10C4	400	.42	.38
10C6	600	.52	.46
10C8	800	.75	.65
10C10	1000	1.70	1.20

③ 3-AMP SILICON RECTIFIERS
.205" dia. - Length .375" Molded.

Int. Rect. No.	PRV	1-99	100-999
30S1	100	\$0.55	\$0.52
30S2	200	.60	.40
30S4	400	.86	.58
30S6	600	1.17	.78
30S8	800	1.80	1.28
30S10	1000	2.80	1.77

Hermetically sealed. 40 amp. 1/4-28 stud x 1.45" overall. 70 amp 1/4-28 stud x 1.37" overall. Standard polarity-cathode connected to stud. Reverse polarity-anode connected to stud. Mounting hardware not included. See listing in column at right.

IR Numbers

Standard Polarity	Reverse Polarity	Volt. PRV	Rating RMS	Current AMPS	1-99 Each	100-999 Each
40HF5	40HFR	50	35	40	\$1.35	\$1.10
40HF10	40HFR	100	70	40	1.95	1.38
40HF20	40HFR	200	140	40	2.85	2.02
40HF40	40HFR	400	280	40	4.45	3.14
40HF60	40HFR	600	420	40	6.00	4.23
40HF100	40HFR	1000	707	40	9.90	7.20
70H10A	70H10AR	100	70	70	3.80	2.70
70H20A	70H20AR	200	140	70	5.05	3.53
70H40A	70H40AR	400	280	70	7.28	5.12
70H60A	70H60AR	600	420	70	9.50	6.70

INTERNATIONAL RECTIFIER 4 AMP RMS SCR's

Plastic case. Mtg. tab internally connected to anode 1.2" long X .38" wide overall including leads. Mtg. tab .5" long with 12" hole Body .3" long

Int. Rect. No.	Reverse Voltage	Gate Firing Requirements Volts	MA	1-99	100 up
IR106Y1	30	1	.5	\$0.75	\$0.50
IR106F1	50	1	.5	.78	.52
IR106A1	100	1	.5	.81	.54
IR106B1	200	1	.5	.90	.60
IR106C1	300	1	.5	1.12	.75

I. R. SCR EXPERIMENTER KIT

Assortment of 5 silicon controlled rectifiers in voltage ranges from 50 to 200 volts at various current ratings from 1.5 amps to 9 amps rms.

I.R. No. K505C. Net Each \$7.95

COLOR TV CARTRIDGE RECTIFIER

61-8968 used as voltage booster rectifier and 61-8969 used as focus rectifier.
Int. Rect. 61-8968. 800 PR Volts. 1-4 Each \$1.15 5-9 Each \$1.04
Int. Rect. 61-8969. 6500 PR Volts. 1-4 Each \$2.95 5-9 Each \$2.85

COLOR CONVERGENCE RECTIFIERS

Meets over 95% of all color TV replacement requirements. Insulated to eliminate shorting. Meet or exceed the specifications of the original part.

I.R. No.	Cell Per Device	PRV.	VRMS.	Output Current	Series Res.	1-4 Each	5-9 Each	10-99 Each
CO-05	3	18	12	65MA	100 ohm	\$0.80	\$0.72	\$0.85
CO-07	4	18	12	65MA	100 ohm	.90	.81	.79
CO-09	5	18	12	65MA	100 ohm	1.00	.90	.80

SILICON RECTIFIER TUBE REPLACEMENT

A plug-in replacement for 5U4, 5AW4, 5T4, 5V4, 5AV4, 5AX4, 5W4, 5Y3, 5Z4, 6004. Contains a surge limiting resistor which adds to its practically unlimited life. Lower forward voltage drop characteristic results in higher equipment voltage.

I.R. ST-14/1N2389. Each \$4.50

RCA SEMICONDUCTOR HARDWARE

Stock No.	Package Outline For Semiconductors	RCA No.	Description	Standard Pack	Price Per Package
12A2410	DO-4	NA38C	Nut	25	\$0.38
12A2411		NR109A	Lock Washer	25	.27
12A2412	and TO-54	OF8C	Insulator—Mica	50	.68
12A2413		OF3D	Insulator—Teflon	25	.81
12A2414		NR59B	Connector	25	.80
12A2415	DO-5	NA38B	Nut	25	.52
12A2416		NR110A	Lock Washer	25	.30
12A2417		NR68A	Connector	25	1.44
12A2418	and TO-48	DF3H	Insulator—Teflon	25	.89
12A2419		DF6B	Insulator—Mica	50	.85
12A2420	TO-1 & TO-18	SA2100	Heat Sink Clip	100	1.15
12A2421	TO-3	495320	Insulator—Mica	100	2.40
12A2422		495334-7	Washer—Nylon	100	1.84
12A2423	TO-5 Flange	DF63A	Insulator—Mica	50	.85
12A2424	TO-8	DF13B	Mounting Clamp	25	1.09
12A2425		DF14A	Insulator—Mica	100	1.96
12A2422		495334-7	Washer—Nylon	100	1.64
12A2410	TO-36	NA38C	Nut	25	.38
12A2426		NR66B	Washer	25	.26
12A2427		NR48A	Connector	25	.54
12A2428		495334-5	Bushing—Delrin	25	1.72
12A2429		DF7A	Insulator—Mica	25	.92
12A2410	TO-60	NA38C	Nut	25	.38
12A2426	TO-63	NR66B	Washer	25	.26
12A2440		OF8D	Insulator—Mica	100	1.62
12A2441		495334-6	Insulator—Teflon	100	11.14
12A2442	TO-66	DF31A	Insulator—Mica	100	1.77
12A2422		495334-7	Washer—Nylon	100	1.64

SARKES TARZIAN RECTIFIERS

Dimensions: Fig. 1 overall 3/8" dia. X 1" L. Fig. 2-1/4-28 stud X 1.435" overall length. Fig. 3-3/4-16 stud X 6-13/16" overall length.
P - Cathode connected to stud
N - anode connected to stud.

Sarkes Tarzian No.	Fig.	PIV	Current Amps.	1-99 Each	100 Up Each
M500/40M	1	400		\$0.80	\$0.59
60M		600	1	1.35	.95
ST3A10P	2	100	25	1.55	1.24
ST3A10N	2	100	25	1.55	1.24
ST3A20P	2	200	25	2.14	1.70
ST3A20N	2	200	25	2.14	1.70
ST3A40P	2	400	25	4.35	2.90
ST3A40N	2	400	25	4.35	2.90
ST3A60P	2	600	25	6.75	3.90
ST3A60N	2	600	25	6.75	3.90
ST710P	3	100	160	12.90	10.32
ST710N	3	100	160	12.90	10.32
ST720P	3	200	160	14.85	12.60
ST720N	3	200	160	14.85	12.60
ST740P	3	400	160	20.80	16.60
ST740N	3	400	160	20.80	16.60
ST910P	3	100	250	18.40	14.20
ST910N	3	100	250	18.40	14.20
ST920P	3	200	250	23.25	17.50
ST920N	3	200	250	23.25	17.50
ST940P	3	400	250	30.65	24.10
ST940N	3	400	250	30.65	24.10

SARKES TARZIAN BRIDGE RECTIFIERS

Sarkes Tarzian No.	Voltage PIV	Rating RMS	1-24 Each	25-99 Each	100-499 Each	500 Up Each
S6230A-2	200	140	\$1.47	\$1.26	\$1.19	\$1.05
S6230A-4	400	280	1.77	1.52	1.41	1.27
S6230A-6	600	420	2.11	1.80	1.68	1.51
S6230A-10	1000	700	3.47	2.97	2.78	2.48

⑥ 6 AMP. FULL WAVE SILICON BRIDGE RECTIFIERS

1-15/32" dia., 15/16" high. 8-32 mounting stud. With solder terminals

S6121-2	200	140	\$4.21	\$3.60	\$3.35	\$3.01
S6121-4	400	280	4.41	3.78	3.51	3.16
S6121-6	600	420	5.61	4.81	4.47	4.02

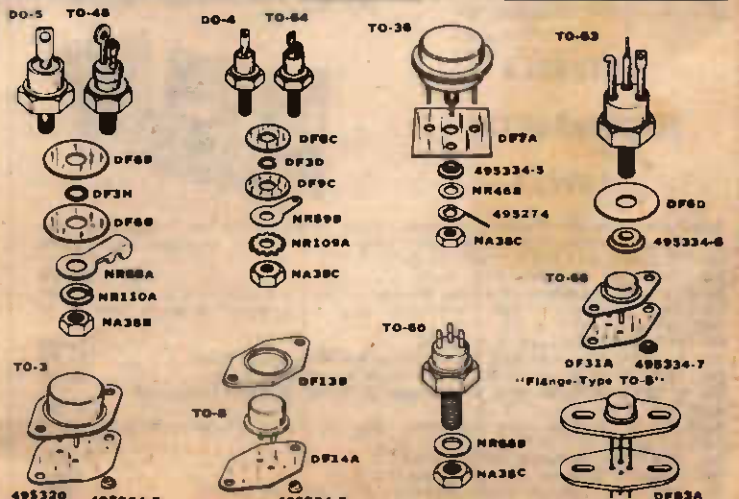
⑫ 12 AMP. FULL WAVE SILICON BRIDGE RECTIFIERS

Only .560" dia. less than 1" above mounting surface including terminals. Rated 12 amps when mounted on metal chassis

S6240-2	200	140	\$3.78	\$3.22	\$3.00	\$2.70
S6240-4	400	280	5.15	4.40	4.00	3.60
S6240-6	600	420	6.93	5.93	5.40	4.86
S6240-10	1000	700	12.00	10.10	9.83	8.65

RECTIFIER MOUNTING HARDWARE

No. 12B943. Single Clip-in Mounting for M500 and 60M. Each... 19c
No. 12A2457. Dual Clip-in Mounting for M500 and 60M. Each... 50c
Complete set for DO-4 Rectifier includes 2 mica washers, 1 brass washer, 1 teflon washer, 1 solder lug, 1 10-32 lock nut.
No. 12A2402. Each... 29c 10 Each... 18c
Complete set for DO-5 Rectifier. Includes one each mica washer, brass washer, teflon washer, solder lug, 1/4-28 lock nut.
No. 12A2403. Each... 39c 10 Each... 30c



Specify Manufacturers Name and Number on Your Order

RCA MOTOROLA EXPERIMENTER KITS

RCA EXPERIMENTERS KITS

① BASIC EXPERIMENTER'S KIT KD2105. Build These 10 Circuits: Electronic Timer, Electronic Time Delay Switch, Electronic Flasher, Battery Charger (6 V.), Battery Charger (12 V.), Model Race Car and Railroad Speed Control, Overload Switch. Contains one silicon controlled rectifier assembly, 2 transistors, and 5 rectifiers—all the solid state components needed to build 10 control circuits listed. Shpg. wt. 1 lb. **RCA No. KD2105**
Net Each \$13.50

② ADD-ON LIGHT-SENSOR KIT KD2106. Contains one photocell. Used with basic kit to build light-operated switch (turn-on) and light-operated switch (turn-off). Applications: burglar or intruder alarm, yard light control, etc. **RCA No. KD2106** Shpg. wt. 6 ozs. **Net Each \$3.50**

③ ADD-ON HEAT-SENSOR KIT KD2110. Contains three thermistors each with a different temperature operating range. For building an electronic heat control (turn-on), electronic heat control (turn-off). Applications: fire alarm, attic fan control, electric dryer, etc. **RCA No. KD2110** Shpg. wt. 6 ozs. **Net Each \$3.00**

RCA EXPERIMENTER'S MANUAL KM-71. 136 page illustrated booklet gives detailed information on all 14 circuits built by using RCA's 3 Experimenters' Kits. Includes schematic diagrams, circuit descriptions, construction details, and keyed wired chassis photos. Wt. 6 ozs. **No. 16A101Z** **Net Each 95c**

RCA INTEGRATED CIRCUIT PACKAGE



For the Hobbyists and experimenters. Provides an introduction and practical knowledge of the use of integrated circuits. Contains 5 linear integrated circuits, two each of two different transistor arrays, and one audio amplifier that can be used by themselves or as part of a larger circuit system. These IC's have been designed into 12 basic circuits. Features, applications, schematic diagrams, and parts list are included. TO-5 package. 3 are 12 lead, 2 are 10 lead.

The applications book includes construction details on 1/2 watt audio amplifier, crystal calibrator, 2 channel mixer, flip-flop, power supply, microphone preamplifier, crystal oscillator, wireless microphone, audio oscillator, electronic thermometer, wide band amplifier and Marine band converter.

RCA KD2117. Each \$5.90
No. 16A23. IC42 Integrated Circuits Manual, Ea. \$2.50

MOTOROLA EXPERIMENTERS KITS

HEK-1 Integrated Circuit Experimenter Kit. Includes 5 RTL integrated circuits (1 each HEP 581 4-input Gate, HEP 582 dual buffer, HEP 583 J-K flip-flop, and 2 HEP 580 (dual 2-input gates)). **Motorola HEK-1. Complete Kit \$3.95**

HEK-2 FET Experimenters Kit. Includes 1 N-channel audio FET, 1 N-channel RF FET, 1 NPN silicon transistor, 1 PNP silicon transistor, FET cross reference guide, tips on using FET's and 9 interesting and useful FET projects circuits. **Motorola HEK-2. Complete Kit \$3.95**

HEK-3 Radio Amateur's IC Projects Kit. Includes: 2 HEP 590 RF-IF Linear IC's, 1 HEP 570 Quad, 2-Input Positive Logic NOR Gate and 10 projects to build. **Motorola HEK-3. Complete Kit \$5.95**

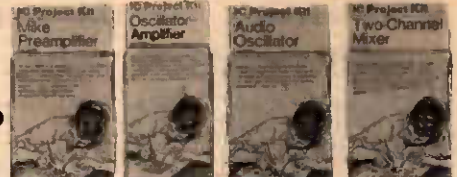
HEK-4 Home Construction Projects Kit. Includes: 1 Silicon controlled Rectifier, 1 Unijunction, 1 Photodiode, 1 Silicon Rectifier and 1 Silicon NPN Transistor. **Motorola HEK-4. Complete Kit \$4.95**

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Integrated Circuit Projects Manual. Gives introduction to integrated circuits and construction techniques. Easy to construct projects with parts lists. 92 pages, 5 1/2 x 8 1/2". Wt. 1/2 lb. **No. 16A1113. Motorola 407. Each \$1.00**
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ALL YOU NEED IS A SOLDERING IRON TO BUILD

RCA INTEGRATED CIRCUIT PROJECT KITS



Microphone Preamplifier KC4000. Build a high-gain, low-noise, wideband, preamplifier for both low- and high-impedance microphone inputs. **RCA No. KC4000. Each \$7.60**
Two-Channel Mixer KC4001. Combine two input signals into a single output. Channel inputs from two microphones into a tape recorder or combine any other two phono, radio, or microphone signals into one output. **RCA No. KC4001. Each \$8.20**
Audio Oscillator KC4002. Use as a code-practice oscillator or to test amateur radio transmitters or hi-fi and other audio equipment. **RCA No. KC4002. Each \$6.30**
Oscillator and Amplifier KC4003. Build 500 mW audio amplifier or a variable tone audio oscillator. Use in portable PA systems or in applications that require a low-power, portable amplifier. **RCA No. KC4003. Each \$11.30**
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Intruder Alarm KC4005. Use for a home intruder alarm system. Generates an attention-getting signal—distinct from RCA's Fire-Alarm Kit. Use with battery or optional power supply. Switch provided to test system. Requires speaker and 9 volt battery. **RCA No. KC4005. Each \$9.50**
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Aircraft Band Converter KC 4007. Electronically Converts your present standard-band AM broadcast set to receive aircraft 118-136MHz band without physical connection to the AM receiver. **RCA No. KC4007A. Each \$13.50**
Ham, Government, Space Research 134-150 MHz Converter, same otherwise as KC-4007 above. RCA No. KC4008A. Each \$13.50
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RCA Digital Counter Kit has three IC's, PC board etc., to build various counters, electronic dice, 12 or 24 hour clocks, photoelectric counters and other digital devices, most using the KC-4011 kit for displaying the readout. **RCA No. KC-4012. Each \$6.95**

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62 solid state circuits, many of which have full size template to simplify circuit board construction. Includes information on circuit operation and trouble shooting. 368 pages profusely illustrated. **No. 16A1186. RCA HM91. Each \$1.95**

RCA Solid State Product Guide. Handy quick reference to index of types, selection guide and abbreviated data for RCA's complete line of commercial solid state products. Shows transistors, thyristors, rectifiers, diodes, power hybrid circuits, linear and digital integrated circuits. **No. 16A1185. Each 35c**

RCA SOLID STATE DATABOOKS

Six textbook-size (6 1/2" x 8 3/4") volumes, a total of 2928 pages, containing complete technical data sheets on all solid-state devices (more than 1200 individual types) available from RCA and application notes on solid-state product lines (integrated circuits, transistors, power hybrid circuits, thyristors, and silicon rectifiers and other solid-state diodes.) Each volume also contains a comprehensive selection guide covering all RCA solid state product lines, a complete index to all RCA solid-state devices, and an order blank to a 1-year subscription to the RCA monthly newsletter (at no extra charge). The six DATABOOK volumes are available in a complete set as the SSD-200, or may be obtained separately. Softbound. Shpg. wt. 7 1/2 lbs. **No. 16A1218. Solid-State DATABOOK Series—SSD-200 Each \$13.00**
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SPECIAL PURPOSE TUBES

Tube Type	Make	Prices Each			
		1-4	5-15	16-49	50 Up
0A2	RCA	\$1.50	\$1.50	\$1.42	\$1.34
0A3	RCA	1.89	1.80	1.70	1.61
0A4E	RCA	2.51	2.38	2.26	2.15
0B2	RCA	1.75	1.66	1.58	1.49
0C2	RCA	1.95	1.85	1.76	1.66
0C3	RCA	1.81	1.72	1.63	1.54
003	RCA	1.81	1.72	1.63	1.54
0G3/05A2	RCA	2.30	2.18	2.07	1.95
1L4	RCA	1.67	1.59	1.50	1.42
1P37	RCA	9.15	8.69	8.26	7.85
1P39	RCA	5.90	4.75	4.51	4.28
1P40	RCA	7.45	7.08	6.73	6.39
1P41	RCA	9.30	8.84	8.40	7.98
2C39A	RCA	20.75	19.71	18.67	17.63
2D21	RCA	1.64	1.56	1.48	1.39
2D21W	Use 5727				
2E26	RCA	5.15	4.89	4.65	4.42
2X2A	RCA	5.55	5.27	5.01	4.76
3A4	RCA	2.58	2.45	2.32	2.19
3B2B	RCA	10.55	10.02	9.52	9.04
NL-3C23	N.E.	11.88	11.38	10.78	10.18
NL-C3J/AL	N.E.	17.05	16.20	15.39	14.62
3RP1	RCA	22.40	21.20	20.22	19.21
3-400Z/8163	Eimac	37.00	35.15	34.75	34.32
4-250A/5D22	Eimac	50.00	47.50	45.13	42.87
4-400A/0A38	Eimac	53.50	50.83	48.29	45.88
4CX250B/7203	Eimac	35.60	33.82	32.04	30.26
4X150A/7034	Eimac	23.15	21.99	20.83	19.68
5R4GYB	RCA	2.60	2.47	2.34	2.21
5UP1	RCA	21.70	20.62	19.59	18.61
6AS8	RCA	3.88	3.69	3.61	3.33
6AS7G	RCA	5.81	5.33	5.05	4.77
6J4	RCA	4.93	4.68	4.44	4.19
NL-C6J	N.E.	28.80	28.31	28.89	25.65
KT66	Mul.	8.58	8.15	7.74	7.35
EF80/6BX6	Mul.	1.34	1.27	1.21	1.15
EZ80/6V4	Mul.	1.94	1.08	1.03	.98
83	RCA	2.56	2.43	2.31	2.19
EM84/6FG6	Mul.	1.48	1.41	1.34	1.27
EF86/8Z67	Mul.	1.50	1.43	1.36	1.29
E88CC/8922	Mul.	4.40	4.18	3.97	3.77
ECC88/6D38	Mul.	2.20	2.09	1.99	1.89
KT88	Mul.	12.98	12.53	11.71	11.12
3047L	Eimac	83.00	78.85	74.70	72.55
575A	RCA	25.60	24.23	23.02	21.87
NL-604	N.E.	18.55	15.72	14.93	14.18
NL-604L	N.E.	18.05	17.15	16.29	15.48
NL-606	N.E.	26.45	25.13	23.87	22.68
NL-615	N.E.	11.60	10.93	10.35	9.78
NL-623	N.E.	16.70	15.87	15.02	14.20
NL-635/7019	N.E.	15.75	14.96	14.21	13.50
NL-635L/7020	N.E.	16.50	15.68	14.90	14.16
NL-635P/6930	N.E.	18.15	17.24	16.38	15.56
NL-680L/7786	N.E.	20.75	19.71	18.72	17.78
NL-710/6011	N.E.	13.15	12.49	11.84	11.18
NL-714	N.E.	11.55	10.97	10.42	9.90
NL-740/6856	N.E.	24.25	23.04	21.83	20.61
NL-740L/7022	N.E.	25.00	23.75	22.50	21.25
NL-760	N.E.	28.80	28.31	27.89	25.55
NL-760L	N.E.	31.50	29.36	27.89	26.50
NL-760P	N.E.	31.50	29.36	27.89	26.50
807	RCA	6.05	5.75	5.46	5.19
810	RCA	40.00	38.00	36.10	34.30
811A	RCA	9.25	8.79	8.33	7.86
812A	RCA	7.60	7.22	6.84	6.46
813	RCA	28.45	27.03	25.68	24.40
816	RCA	5.20	4.94	4.68	4.46
828	RCA	40.60	38.57	36.64	34.81

Tube Type	Make	Prices Each			
		1-4	5-15	16-49	50 Up
833A	RCA	75.90	72.11	68.50	65.08
866A	RCA	5.05	4.80	4.56	4.33
868	RCA	8.55	8.12	7.71	7.32
872A	RCA	13.25	12.59	11.96	11.35
884	RCA	3.72	3.53	3.35	3.16
918	RCA	8.55	8.12	7.71	7.32
919	RCA	13.20	12.54	11.91	11.31
922	RCA	5.50	5.23	4.97	4.72
923	RCA	7.00	6.65	6.32	6.00
927	RCA	10.40	9.88	9.39	8.92
930	RCA	6.90	6.56	6.23	5.92
931A	RCA	14.90	14.16	13.46	12.78
934	RCA	9.60	9.12	8.66	8.23
955	RCA	7.05	6.70	6.34	5.99
NL1051A "8" Ign.	N.E.	71.00	67.45	63.90	60.35
NL1052A "C" Ign.	N.E.	107.00	101.55	96.30	90.95
NL1061	N.E.	71.00	67.45	63.90	60.35
1612	RCA	8.26	7.85	7.43	7.02
1614	RCA	7.03	6.68	6.33	5.98
1810	RCA	7.82	7.43	7.07	6.70
1620	RCA	9.51	9.03	8.56	8.08
1621	RCA	4.87	4.63	4.38	4.14
1625	RCA	7.00	6.65	6.32	6.00
1629	RCA	3.47	3.30	3.12	2.95
2050	RCA	2.87	2.66	2.48	2.27
2050A	RCA	2.48	2.36	2.23	2.11
5557	RCA	8.50	8.02	7.55	7.07
5683	RCA	11.15	10.59	10.06	9.56
NL-5632/C3J	N.E.	14.25	13.54	12.86	12.21
5642	RCA	3.53	3.36	3.17	3.00
5651A	RCA	2.13	2.02	1.92	1.81
5654	RCA	2.26	2.15	2.03	1.92
NL-5665/C16J	N.E.	52.50	49.87	45.45	44.62
5670	RCA	3.12	2.96	2.81	2.65
5675	RCA	10.30	9.79	9.30	8.84
5678	RCA	3.38	3.22	3.05	2.88
NL-5684/C3J/A	N.E.	14.85	13.92	13.22	12.56
5687	RCA	4.89	4.46	4.22	3.99
5691	RCA	9.30	8.84	8.40	7.98
5692	RCA	8.87	8.52	8.09	7.69
5693	RCA	7.18	6.82	6.50	6.18
5696	RCA	2.35	2.23	2.12	2.01
5725/6AS6W	RCA	3.72	3.53	3.35	3.16
5726/6A15W	RCA	2.38	2.26	2.14	2.02
5727/2D21W	RCA	3.28	3.12	2.95	2.79
6749/6BA6W	RCA	3.32	3.15	2.99	2.82
5751	RCA	3.21	3.05	2.89	2.73
5763	RCA	2.91	2.78	2.67	2.47
5814A	RCA	2.87	2.82	2.82	2.62
5823	RCA	2.00	1.90	1.80	1.70
5876A	RCA	10.60	10.07	9.57	9.09
5915	RCA	2.17	2.06	1.95	1.84
5963	RCA	1.84	1.56	1.48	1.39
5965	RCA	2.42	2.30	2.18	2.06
6005/6A05W	RCA	3.98	3.78	3.58	3.38
6012	RCA	8.69	8.26	7.82	7.39
NL-6014/C1K	N.E.	12.90	12.26	11.65	11.07
6072	RCA	4.24	4.03	3.82	3.60
6080	RCA	5.88	5.59	5.29	5.00
6138	RCA	3.50	3.33	3.15	2.98
6146A	RCA	4.90	4.66	4.43	4.21
6146B/8288A	RCA	6.00	5.70	5.42	5.18
6146W	RCA	7.20	6.84	6.50	6.18
6159B	RCA	5.75	5.46	5.19	4.93
6201	RCA	3.54	3.36	3.19	3.01
6202	RCA	2.87	2.73	2.59	2.46
6211	RCA	2.95	2.80	2.66	2.51

Tube Type	Make	Prices Each			
		1-4	5-15	16-49	50 Up
6293	RCA	6.60	6.27	5.95	5.55
6336A	RCA	22.79	21.65	20.57	19.54
6360A	RCA	6.25	5.94	5.63	5.32
6385	RCA	9.50	8.93	8.55	8.08
6570	RCA	6.45	6.13	5.81	5.48
6578	RCA	14.30	13.59	12.87	12.18
6661/6BH6	RCA	2.27	2.16	2.05	1.95
6669/6AQ5A	RCA	1.93	1.83	1.74	1.65
6677/6CL6	RCA	2.69	2.56	2.43	2.31
6678/6UB8	RCA	2.23	2.12	2.01	1.91
6679/12AT7	RCA	2.02	1.92	1.82	1.73
6680/12AU7A	RCA	1.74	1.65	1.57	1.49
6681/12AX7A	RCA	1.67	1.49	1.42	1.35
6689A	RCA	9.54	8.96	8.61	8.18
6883	RCA	5.45	5.18	4.92	4.67
6922	See E88CC/6922				
NL-6989/C6J/KL	N.E.	31.75	30.16	28.66	27.22
7054	RCA	1.85	1.76	1.67	1.59
7059	RCA	1.83	1.74	1.66	1.57
7060	RCA	2.07	1.97	1.87	1.78
7061	RCA	1.63	1.54	1.46	1.37
7062	RCA	3.75	3.56	3.38	3.21
7167	RCA	1.83	1.74	1.66	1.57
7360	RCA	5.38	5.11	4.84	4.57
7551	RCA	4.38	4.16	3.94	3.72
7550	RCA	3.95	3.75	3.56	3.36
7586	RCA	4.13	3.92	3.72	3.51
7507	RCA	5.99	5.69	5.39	5.09
7788	Mul.	11.25	10.69	10.16	9.65
7895	RCA	4.20	3.99	3.79	3.60
8008	RCA	13.95	13.26	12.59	11.96
8032	RCA	5.60	5.32	5.05	4.80
8056	RCA	5.59	5.31	5.03	4.75
8077/7054	RCA	1.86	1.77	1.67	1.58
8233	Mul.	17.50	16.83	15.80	15.01
9006	RCA	3.23	3.07	2.91	2.75

IEC MULLARD 10M SERIES ELECTRON TUBES

- 2 Year Guarantee
- Tube-to-tube uniformity
- Section-to-section uniformity
- Long Life Guaranteed Performance
- Extremely close tolerance



Order by Mullard 10M Tube Type


Tube Type	Each	Tube Type	Each
ECC81/12AT7-10M	\$2.85	ECH81/6AJ8-10M	\$2.92
ECC82/12AU7-10M	2.45	EF86/6267-10M	2.75
ECC83/12AX7-10M	2.45	EF94/6AU6-10M	2.20
ECC85/6AQ8-10M	2.65	EL84/6BQ5-10M	2.40
ECC88/6D38-10M	3.45		

MULLARD MATCHED PAIR POWER OUTPUT TUBES

Specify Mullard and Tube Type on order.

Mullard Type	EIA Type	Net Pair	Mullard Type	EIA Type	Net Pair
EL34/MP	6CA7	\$7.60	KT88/MP	6BM8	\$25.00
KT88/MP		15.80	ECL82/MP	6BM8	4.88
EL84/MP	6BQ5	6.00	7188/MP	7189	4.00

READOUT TUBES BY NATIONAL ELECTRONICS



Numerals 0 thru 9. Rugged, non-fading, all electronic. Red-orange glow provides good readability under all lighting conditions. Manufactured under license from Burroughs Corp. Operates at 170 volts. Sockets listed below. Write for technical data.

Mfg. No.	Fig.	Char. Size	Each	Mfg. No.	Fig.	Char. Size	Each
NL807	②	0.8 in.	\$11.00	NL6844A	①	0.6 in.	\$11.00
NL840/8754	②	0.6 in.	8.00	NL8422/5991	①	0.6 in.	15.75

SOCKETS FOR READOUT TUBES

Stock No.	Mfg. No.	For Tube Types	Net Each
12A5028	RTS-1	NL8421, 6844A	\$0.80
12A5031	RTS-8	NL8422/5991, NL809	.90
12A5033	RTS-11	NL807	.50
12A5028	RTS-14	NL840/8754	.40

TUNG-SOL DIGIVAC READOUT TUBES

Low cost seven bar segmented Readout. Forms numerals 0 thru 9 and letters, A, C, E, F, G, H, I, J, L, O, P, S, U and Y. All have uniform brightness, visible in excess of 40 feet. Can be switched reliably with voltages below 12 V, typical operation for high brightness about 25 V. Seated height 1 3/4", dia. .845". Green characters .36 x .57" slanting to right at 8°.

DT1704B	Readout Tube. With standard 9 pin base. 1-99 Ea. \$5.30	100 Ea. \$3.15
DT17050	Readout Tube. With right hand decimal point, 10 pin miniature base. 1-99 Each \$5.75	100 Each \$

RCA THE MOST TRUSTED NAME IN ELECTRONICS!

ONE FULL YEAR WARRANTY

Just return defective tubes with order papers for prompt replacement.

Receiving Tubes may be assorted for quantity Prices—The more you buy the more you save at B-A!

RCA RECEIVING TUBE MANUAL

FREE! WITH PURCHASE OF 15 RECEIVING TUBES

Gives characteristics and application data on RCA receiving and picture tubes.
No. 16A66. With Order for 15 Receiving Tubes.....FREE
When Ordered Separately, Each.....\$2.00



Tube Type	Optional List	Net 1-5	Net 6-49	50 or Over	Tube Type	Optional List	Net 1-5	Net 6-49	50 or Over	Tube Type	Optional List	Net 1-5	Net 6-49	50 or Over	Tube Type	Optional List	Net 1-5	Net 6-49	50 or Over
OZ4A/OZ4	54.25	\$2.55	\$1.91	\$1.70	6AD10	58.85	55.31	\$3.98	\$3.54	6CN7	54.90	\$2.94	\$2.21	\$1.96	6J5	\$5.05	\$3.03	\$2.27	\$2.02
1A02A	4.25	2.55	1.91	1.70	6AF3	4.35	2.61	1.96	1.74	6C08	5.05	3.03	2.28	2.02	6J5GT	5.05	3.03	2.27	2.02
1AY2A	4.05	2.43	1.82	1.62	6AF4A	5.38	3.21	3.41	2.14	6C56	4.50	2.70	2.03	1.80	6J6A	4.90	2.94	2.21	1.96
18C2	3.75	2.25	1.69	1.50	6AF6G	7.55	4.53	3.40	3.02	6C57	4.15	2.49	1.87	1.66	6J7	6.95	4.19	3.13	2.78
183GT/1G3GT					6AFP	3.55	2.13	1.60	1.42	6C65	4.40	2.64	1.98	1.76	6J8/6HE5	5.20	3.12	2.34	2.08
1K3A/1J3	4.35	2.61	1.96	1.74	6AF11	5.70	3.42	2.57	2.28	6C68	5.05	3.03	2.28	2.02	6J8A	7.00	4.20	3.15	2.80
1L6	13.80	8.28	6.21	5.52	6AG5	4.70	2.82	2.12	1.88	6C69	6.20	3.72	2.79	2.48	6J9A	4.90	2.94	2.21	1.96
1R5	5.70	3.42	2.57	2.28	6AG7	8.45	5.07	3.81	3.38	6C75/EL86	2.75	1.65	1.24	1.10	6J9B	3.65	2.19	1.64	1.46
1S2A/DY87	2.55	1.53	1.15	1.02	6AH4GT	3.25	1.95	1.46	1.30	6C8	5.60	3.36	2.52	2.24	6J9C	5.05	3.03	2.28	2.02
1S5	3.40	2.04	1.53	1.36	6AH6	6.40	3.84	2.88	2.56	6C85	5.35	3.21	2.41	2.14	6J9E				
1T4	4.25	2.55	1.91	1.70	6AK6/EF95	5.20	3.12	2.34	2.08	6C87	3.35	2.01	1.51	1.34	6J9H	4.05	2.43	1.82	1.62
1U4	4.25	2.55	1.91	1.70	6AK6	2.40	1.68	1.51	1.34	6CZ5	5.20	3.12	2.34	2.08	6J9J	7.95	4.77	3.58	3.18
1U5	3.75	2.25	1.69	1.50	6AL3/EY88	2.85	1.71	1.28	1.14	6D10	5.10	3.06	2.30	2.04	6J9K	3.90	2.34	1.76	1.56
1V2	2.60	1.56	1.17	1.04	6AL5	3.25	1.95	1.46	1.30	6DA4/6DM4A	4.05	2.43	1.82	1.62	6J9L	5.90	3.54	2.66	2.36
1X2C	4.50	2.70	2.03	1.80	6AL11	6.25	3.75	2.82	2.50	6DB5	5.00	3.00	2.25	2.00	6J9M	6.30	3.78	2.84	2.52
2AF4B/2DZ4	4.50	2.70	2.03	1.80	6AM8A	5.05	3.03	2.27	2.02	6DC6	4.25	2.55	1.91	1.70	6J9N	5.85	3.51	2.63	2.34
2AV2	3.45	2.07	1.55	1.38	6AN8A	5.50	3.30	2.48	2.20	6DE4/6CO4	4.55	2.73	2.05	1.82	6J9P	4.00	2.40	1.80	1.60
28N4A	3.90	2.34	1.76	1.56	6A05A	3.70	2.22	1.67	1.48	6DE6	3.60	2.16	1.62	1.44	6J9Q	8.10	4.86	3.65	3.24
28U2/2AM2	4.25	2.55	1.91	1.70	6A06	3.60	2.16	1.62	1.44	6DE7	4.90	2.94	2.21	1.96	6J9R	6.45	3.87	2.91	2.58
2CYS	5.35	3.21	2.41	2.14	6A07GT	4.70	2.82	2.12	1.88	6D6G6T	4.60	2.76	2.07	1.84	6J9S	4.90	2.94	2.21	1.96
2F55	5.30	3.18	2.39	2.12	6A08/ECC85	3.00	1.80	1.35	1.20	6D8	3.40	2.42	2.18	1.94	6J9T	4.85	2.91	2.18	1.94
2GK5/2FQ5A	4.20	2.52	1.89	1.68	6AR5	7.75	4.65	3.59	3.30	6DKA	3.90	2.34	1.76	1.56	6J9V				
2M05	4.20	2.52	1.89	1.68	6AR11	5.75	3.52	2.59	2.30	6DL5/EL95	3.25	1.95	1.46	1.30	6CF802	3.40	2.04	1.53	1.36
3A3C	4.40	2.64	1.98	1.76	6AS5	4.40	2.64	1.98	1.76	6DN7	5.05	3.03	2.28	2.02	6JZ8	3.85	2.31	1.73	1.54
3AF4A/3DZ4	4.50	2.70	2.03	1.80	6AS8	5.70	3.42	2.57	2.28	6DQ5	8.75	5.25	3.94	3.50	6K6GT	4.40	2.64	1.98	1.78
3AL3	2.90	1.74	1.31	1.16	6AT6	2.05	1.23	92	82	6DQ6B					6K7	6.00	3.60	2.70	2.40
3AT28	4.25	2.55	1.91	1.70	6AT8A	5.65	3.39	2.56	2.26	6DR7	5.55	3.33	2.50	2.22	6K11/6O11	4.15	2.49	1.87	1.66
3AW2A	4.45	2.67	2.00	1.78	6AU4GTA	5.30	3.18	2.39	2.12	6DS4	5.90	3.54	2.66	2.36	6KA8	5.35	3.21	2.41	2.14
3AU6	3.25	1.95	1.46	1.30	6AUSGT	5.70	3.42	2.57	2.28	6DS5	3.65	2.19	1.64	1.46	6K06	9.75	5.85	4.39	3.90
3BC5/3CE5	3.25	1.95	1.46	1.30	6AU6A	3.25	1.95	1.46	1.30	6DT5	3.90	2.34	1.76	1.56	6KE8	6.65	3.90	3.00	2.66
3BN6	5.20	3.12	2.34	2.08	6AUBA	5.70	3.42	2.57	2.28	6DT6A	3.55	2.13	1.60	1.42	6KM6	9.75	5.85	4.39	3.90
3BU8/3G58	5.30	3.18	2.39	2.12	6AV5GA	5.70	3.42	2.57	2.28	6GT8	4.10	2.46	1.85	1.64	6KT6	5.35	3.21	2.41	2.14
3BZ6	4.10	2.46	1.85	1.64	6AW6	2.95	1.77	1.33	1.18	6GW4B	4.90	2.94	2.21	1.96	6KT8	5.90	3.54	2.66	2.36
3CA3	4.05	2.43	1.82	1.62	6AW8A	4.90	2.94	2.21	1.96	6GX8/ECL84	2.90	1.74	1.31	1.16	6KV8	6.45	3.87	2.91	2.58
3CB6/3CF6	2.95	1.77	1.33	1.18	6AX3	3.75	2.25	1.69	1.50	6DZ4	5.35	3.21	2.41	2.14	6KY8A	8.15	4.89	3.67	3.26
3C56	4.05	2.43	1.82	1.62	6AX4GT8	8.05	4.83	3.67	3.26	6E5	6.20	3.72	2.79	2.48	6KZ8	4.50	2.70	2.03	1.80
3CJ5	5.05	3.21	2.41	2.14	6AX5GT	4.25	2.55	1.91	1.70	6E8	4.30	2.58	1.94	1.72	6L6	11.20	6.72	5.04	4.48
3CJY3	4.15	2.49	1.87	1.66	6AY38	4.05	2.43	1.82	1.62	6E8B	6.20	3.72	2.79	2.48	6L6CC	6.65	3.99	2.99	2.66
3DB3/3CY3	4.80	2.88	2.16	1.92	6AZ8	6.00	3.60	2.70	2.40	6E7/EF183	4.20	2.52	1.89	1.68	6L8A	9.30	5.58	4.19	3.72
3DG4	6.35	3.81	2.86	2.54	6B10	4.90	2.94	2.21	1.96	6EJ7/EF184	3.90	2.34	1.76	1.56	6L7	6.95	4.17	3.13	2.78
3DK6	3.90	2.34	1.76	1.56	6B6/EP93	3.60	2.16	1.62	1.44	6EM5	4.90	2.94	2.21	1.96	6L8	6.10	3.66	2.75	2.44
3DT6A	3.60	2.16	1.62	1.44	6B8A8	6.45	3.87	2.91	2.58	6EM7/6EA7	6.15	3.69	2.77	2.46	6L8B	4.80	2.88	2.16	1.92
3GK6	4.20	2.52	1.89	1.68	6B8A11	5.35	3.21	2.41	2.14	6ES5	3.15	1.79	1.42	1.26	6L8C	5.35	3.21	2.41	2.14
3GK8	3.60	2.16	1.62	1.44	6B8C/6CES	3.60	2.16	1.62	1.44	6ES8/					6L8D	2.65	1.59	1.19	1.06
3HMS/3MAS	4.20	2.52	1.89	1.68	6BC7	3.60	2.16	1.62	1.44	ECC189	5.45	3.27	2.45	2.18	6L6/6JE6C	6.65	3.99	2.99	2.66
3M05	5.05	3.03	2.28	2.02	6BC8/6BZ8	5.35	3.21	2.41	2.14	6EU7	4.35	2.61	1.96	1.74	6L8	6.05	3.63	2.73	2.42
3JC6A	5.55	3.33	2.50	2.22	6BE3/6BZ3	4.90	2.94	2.21	1.96	6EU8	4.05	2.43	1.82	1.62	6L8A	4.40	2.64	1.98	1.76
3V4	4.90	2.94	2.21	1.96	6BE6	3.75	2.25	1.69	1.50	6EV5	4.70	2.82	2.12	1.88	6L8B	5.25	3.15	2.37	2.10
4AU6	4.25	2.55	1.91	1.70	6BF5	3.35	2.01	1.51	1.34	6EW6	3.90	2.34	1.76	1.56	6L8C/6CF802	2.60	1.56	1.17	1.04
4BC8	4.35	2.61	1.96	1.74	6BF6	3.10	1.86	1.40	1.24	6EW7	7.15	4.29	3.22	2.86	6L8E	4.25	2.55	1.91	1.70
4BL8/XCF80	2.40	1.44	1.08	0.96	6BG6G	7.85	4.71	3.54	3.14	6F5	6.45	3.87	2.91	2.58	6MD8	5.80	3.48	2.61	2.32
4B07A/4BZ7	4.40	2.64	1.98	1.76	6BM6	4.40	2.64	1.98	1.76	6F6	6.70	4.02	3.02	2.68	6ME8	6.20	3.72	2.79	2.48
4B08/4G58	4.85	2.91	2.18	1.94	6BM8	5.05	3.03	2.28	2.02	6FD7	6.20	3.72	2.79	2.48	6N7	5.90	3.54	2.66	2.36
4BZ6	4.10	2.46	1.85	1.64	6BN11	3.15	3.09	2.32	2.06	6FG7	5.05	3.03	2.27	2.02	6O7	5.90	3.54	2.66	2.36
4CB6	2.95	1.77	1.33	1.18	6B8	4.75	2.85	2.14	1.90	6FH5	5.00	3.00	2.25	2.00	6S4A	4.05	2.43	1.82	1.62
4C56	4.05	2.43	1.82	1.62	6B8J	2.95	1.77	1.33	1.18	6FJ7	4.55	2.73	2.05	1.82	6S4B	5.90	3.50	2.66	2.36
4DT6A	4.15	2.49	1.87	1.66	6B8K	4.75	2.85	2.14	1.90	6FM7	5.05								

Tube Type	Optional List	Net 1-3	Net 6-49	50 or Over	Tube Type	Optional List	Net 1-3	Net 6-49	50 or Over	Tube Type	Optional List	Net 1-3	Net 6-49	50 or Over	Tube Type	Optional List	Net 1-3	Net 6-49	50 or Over
100X8/					12BL6	\$4.05	\$2.43	\$1.82	\$1.62	148111	\$8.00	\$4.80	\$3.60	\$3.20	24LO6/JE6C	\$9.25	\$5.55	\$4.17	\$3.70
100X8/	\$3.00	\$1.80	\$1.35	\$1.20	12B06GTB/					148R11	6.35	3.81	2.86	2.54	25B06GTB/				
10E67	4.80	2.88	2.16	1.92	12CU6	4.20	2.52	1.89	1.68	15B011A	6.00	3.60	2.70	2.40	25CU6	4.40	2.64	1.98	1.76
10GF7A	6.00	3.60	2.70	2.40	12BR7	3.35	2.01	1.51	1.34	15CW5/PL84	2.70	1.62	1.22	1.08	25C5	4.05	2.43	1.82	1.62
10GK6	4.90	2.90	2.21	1.96	12BY7A	3.90	2.34	1.76	1.56	15D08/PCL84	3.75	2.25	1.69	1.50	25C06GB	7.05	4.23	3.18	2.82
10GN8	5.35	3.21	2.41	2.14	12CA5	4.35	2.61	1.96	1.74	15KY8A	6.95	4.17	3.13	2.78	25ON6	7.25	4.35	3.27	2.90
10HF8	5.90	3.54	2.66	2.36	12CUS/12C5	4.75	2.85	2.14	1.90	16A03/XY88	2.95	1.77	1.33	1.18	25EH5	4.05	2.43	1.82	1.62
10JT8	5.20	3.12	2.34	2.08	12DB5	2.90	1.74	1.31	1.16	17AX4GT	3.90	2.34	1.76	1.56	25L6GT	4.05	2.43	1.82	1.62
10JY8	4.00	2.40	1.80	1.60	12OS7	5.90	3.54	2.66	2.36	17AY3A	4.05	2.43	1.82	1.62	25Z6GT	4.25	2.55	1.91	1.70
10KU8	5.35	3.21	2.41	2.14	12OT5	3.40	2.04	1.53	1.36	17BF11	6.50	3.90	2.93	2.60	27G85/				
11AR11	5.85	3.51	2.64	2.34	12OT8	3.90	2.34	1.76	1.56	17B53A/					PL500	4.05	2.43	1.82	1.62
11B011	5.85	3.51	2.64	2.34	12EK6	3.90	2.34	1.76	1.56	17OW4A	4.05	2.43	1.82	1.62	30AE3/PY88	3.60	2.16	1.62	1.44
11B111	7.15	4.29	3.22	2.86	12FX5	3.60	2.16	1.62	1.44	17C9	7.85	4.71	3.54	3.14	31J56C	7.90	4.74	3.56	3.16
11JM7	6.45	3.87	2.91	2.58	12GE5	5.70	3.42	2.52	2.28	17CUS/17C5	3.40	2.04	1.53	1.36	33GT7	7.40	4.44	3.33	2.96
11KV8	7.15	4.29	3.22	2.86	12GW6/					1704	4.45	2.67	2.00	1.78	33GY7A	7.00	4.20	3.15	2.80
11L08	6.50	3.90	2.93	2.60	12DQ68	5.65	3.39	2.55	2.26	170E4	4.00	2.40	1.80	1.60	35C5	3.50	2.10	1.58	1.40
12A85	4.25	2.55	1.91	1.70	12H6	4.90	2.94	2.21	1.96	17EW8/					35EH5	3.75	2.25	1.69	1.50
12A06	3.85	2.31	1.73	1.54	12MG7/					HCC85	3.00	1.80	1.35	1.20	35L6GT	4.25	2.55	1.91	1.70
12AE6A	3.40	2.04	1.53	1.36	12GN7A	6.05	3.63	2.73	2.42	17GT5A	6.05	3.63	2.73	2.42	35W4	2.20	1.32	.99	.88
12AF3	4.45	2.79	2.09	1.86	12HL7	5.35	3.21	2.41	2.14	17GW6/					35Z5GT	3.70	2.22	1.67	1.48
12AF6	3.15	1.89	1.42	1.26	12J86A	6.95	4.17	3.13	2.78	17DQ68	6.05	3.63	2.73	2.42	36AM3B	2.75	1.65	1.24	1.10
12AL5	3.00	1.80	1.35	1.20	12L6GT	3.90	2.34	1.76	1.56	17J86A	6.45	3.87	2.90	2.58	38HE7	8.00	4.80	3.60	3.20
12A05	3.85	2.31	1.73	1.54	12M08	5.35	3.21	2.41	2.14	17JM6A	6.50	3.90	2.93	2.60	38HK7	7.80	4.68	3.51	3.12
12A76	3.05	1.83	1.37	1.22	12SA7	5.50	3.30	2.48	2.20	17JN6	5.80	3.48	2.61	2.32	50B5	3.25	1.95	1.46	1.30
12AT7/					12SG7	5.15	3.09	2.32	2.06	17JZ8	3.90	2.34	1.76	1.56	50C5	3.35	2.01	1.51	1.37
ECC81	3.75	2.25	1.69	1.50	12SJ7	4.70	2.82	2.12	1.88	17KV6A	9.45	5.67	4.26	3.78	50DC4	2.60	1.56	1.17	1.04
12AU6	3.85	2.31	1.73	1.54	12SK7	5.80	3.48	2.61	2.32	18FX6A	3.25	1.95	1.46	1.30	50EHS	3.90	2.34	1.76	1.56
12AU7A/					12SL7GT	5.45	3.27	2.46	2.18	19AU4GT	4.75	2.85	2.14	1.90	50HK6	2.35	1.41	1.06	.94
ECC82	3.35	2.01	1.51	1.34	12SN7GTA	2.40	2.82	2.12	1.88	19T8	5.35	3.21	2.41	2.14	50L6GT	4.90	2.94	2.21	1.96
12AV5GA	6.00	3.60	2.70	2.40	12S07	5.40	3.24	2.43	2.16	20A03/LY88	3.60	2.16	1.62	1.44	60FX5	3.25	1.95	1.46	1.30
12AV6	2.55	1.53	1.15	1.02	12V6GT	4.90	2.94	2.21	1.96	21GY5	5.05	3.03	2.28	2.02	58Y9	5.85	3.51	2.64	2.34
12AV7	5.05	3.03	2.28	2.02	12W6GT	5.35	3.21	2.41	2.14	21JY6	5.10	3.06	2.30	2.04	58B1	4.35	3.10	2.79	2.48
12AX4GTB	3.65	2.19	1.64	1.46	12X4	2.45	1.47	1.10	.98	21JZ6	5.35	3.21	2.41	2.14	69Y3	5.55	3.33	2.50	2.22
12AX7A/ECC83	3.05	1.83	1.37	1.22	130E7	3.25	3.15	2.37	2.10	21L88	5.00	3.00	2.25	2.00	70Z5	3.10	1.86	1.40	1.24
12AY3A	3.20	1.92	1.44	1.28	130E7	6.30	3.78	2.84	2.52	21L88	5.00	3.00	2.25	2.00	70Z7A	8.15	4.89	3.87	3.26
12AY7	6.45	3.87	2.90	2.58	13EM7/					22BW3	4.45	2.67	2.00	1.78	7189	4.65	2.79	2.09	1.86
12AZ7A	4.40	2.64	1.98	1.76	15EA7	6.70	4.02	3.02	2.68	22DE4	4.60	2.76	2.07	1.84	7199	6.20	3.72	2.79	2.48
12BA4	4.40	2.64	1.98	1.76	13F07	5.80	3.48	2.61	2.32	22JF6	7.70	4.62	3.47	3.08	7247	4.45	2.67	2.00	1.78
12BA6	3.10	1.86	1.40	1.24	13FM7	4.40	2.64	1.98	1.76	22JG6A	7.45	4.47	3.36	2.98	7355	4.00	2.40	1.80	1.60
12BE6	3.35	2.01	1.51	1.34	13GF7A	5.70	3.42	2.57	2.28	22JR6	7.50	4.50	3.38	3.00	7581A	6.75	4.05	3.04	2.70
12BF6	2.35	1.41	1.06	0.94	13J10/					22JY6	7.50	4.50	3.38	3.00	7591A	3.05	1.83	1.37	1.22
12BM7A	4.25	2.55	1.91	1.70	13J10	6.85	4.11	3.09	2.74	22KM6	8.85	5.31	3.99	3.54	7868	6.20	3.72	2.79	2.48
					13V10	6.50	3.90	2.93	2.60	23Z9	5.20	3.12	2.34	2.08	8417	6.20	3.72	2.79	2.48



RCA

PICTURE TUBES

COLOR AND BLACK & WHITE

B-A Full 12 Month Warranty. Hi-Lite tubes contain all new parts and materials. Colorama tubes contain used materials, carefully inspected to meet high quality standards. Silverama tubes contain all new materials except for the envelope which is carefully inspected prior to reuse to meet the standard of the original. Shipped express or truck.

†Return old tube prepaid in the same carton in which your new tube is received to receive bulb allowance. Old tube must have no scratches or chips on face and be under vacuum.

RCA OPTIONAL SECOND YEAR COLOR PICTURE TUBE WARRANTY

Available only at time of purchase of a RCA Hi-Lite or Colorama color picture tube. Certificate must be mailed to RCA within ten days of tube installation to be valid. No. 6A2541. Each \$6.00

RCA HI-LITE RARE EARTH COLOR PICTURE TUBES

Stock No.	Type	Wt. Lbs.	Bulb Allowance	Total Price
6A2528	H14VHP22	17	—	\$82.05
6A2542	H14VALP22	17	—	84.61
6A2529	H16VACP22	22	—	88.79
6A2543	H17VACP22	30	52.00	125.64
6A2544	H17VADP22	30	20.00	134.61
6A2530	H18VHP22	30	5.00	107.05
6A2531	H18VANP22	28	5.00	121.80
6A2533	H18VAZP22	30	5.00	107.09
6A2532	H18BDP22	30	5.00	107.09
6A2545	H18BGP22	32	5.00	107.05
6A2546	H18BJP22	32	5.00	112.83
6A2547	H18BKP22	32	5.00	120.51
6A2534	H19VBP22	54	30.00	130.13
6A2548	H19VANP22	31	20.00	130.76
6A2549	H19VBP22	31	20.00	141.03
6A2550	H19VBP22	31	20.00	139.74
6A2551	H19BRP22	34	20.00	139.74
6A2536	H20VACP22	40	10.00	137.18
6A2552	H20VHP22	37	10.00	128.20
6A2537	H21VACP22	42	20.00	147.44
6A2538	H23VALP22	54	25.00	136.54
6A2539	H23VANP22	54	25.00	127.56
6A2553	H23VACP22	54	25.00	124.36
6A2540	H25VBP22	60	20.00	143.59

RCA INTERCHANGEABILITY GUIDE

Lists RCA type number to use to replace picture tubes not shown here. No. 16A1191. Ask for it - it's FREE on Request.

RCA COLORAMA PICTURE TUBES RARE EARTH TYPES

Stock No.	Type	Wt. Lbs.	Bulb Allow.	Total Price
6A2554	C11VWP22	9	5.300	\$ 91.03
6A2555	C15AEP22	17	—	76.93
6A2518	C15UP22	17	—	75.64
6A2519	C15NP22	17	—	70.51
6A2556	C17EP22	22	—	74.36
6A2520	C19GVP/			
	EXP22	28	5.00	76.93
6A2521	C19GWP/			
	EYP22	32	5.00	82.05
6A2557	C19HCP/			
	HKP22	28	5.00	91.03
6A2558	C19HNP22	28	5.00	91.03
6A2559	C19RWP22	32	5.00	89.10
6A2522	C21GVP/			
	FBP22A	48	30.00	104.49
6A2523	C21GVP/			
	FJP22A	52	30.00	110.51
6A2524	C22JP22	40	10.00	100.64
6A2525	C22KP22			

MALLORY EVEREADY RCA BATTERIES

FRESH BATTERIES FROM B-A LAST LONGER

MALLORY DURACELL MERCURY BATTERIES									
Stock No.	Mallory No.	Replaces Eveready	User Each	Pkg. Qty.	@ Each	Volts	Size	Inches O.D.	Inches H.
21A5010	RM1	E1	\$0.85	4	\$0.67	1.4	5/8x1 1/2		
21A5011	RM3R	E3	1.66	4	1.27	1.35	1.2 x 1 1/2		
21A5012	RM4R	E4	2.13	4	1.62	1.35	1.2 x 1 1/2		
21A5013	RM12	E12	1.49	4	1.14	1.4	5/8x1 1/2		
21A5014	RM12R	E12N	1.66	4	1.27	1.35	5/8x1 1/2		
21A5015	RM42	E42	4.25	2	3.25	1.4	1.2 x 2 1/2		
21A5016	RM42R	E42N	4.68	2	3.56	1.35	1.2 x 2 1/2		
21A5017	RM400R	E400A	.85	6	.67	1.35	1.2 x 1 1/2		
21A5018	RM401	E401	.85	3	.67	1.4	1.2 x 1 1/2		
21A5020	RM575	E575	.30	6	.24	1.4	.455x 1.29		
21A5021	RM625	E625	.81	4	.63	1.4	5/8x 1/4		
21A5022	RM625R	E625N	.94	4	.73	1.35	5/8x 1/4		
21A5023	RM630	E630	.80	4	.63	1.4	5/8x 1/4		
21A5024	RM640	E640	.80	4	.63	1.4	5/8x 1/4		
21A5025	RM675	E675	.64	6	.50	1.4	5/8x 1/4		
21A5026	TR115R	E115N	3.19	2	2.44	6.75	1 1/2 x 1 1/2		
21A5027	TR126	E126	2.13	4	1.67	8.4	3/4 x 2 1/2		
21A5027	TR132R	E132N	1.87	4	1.47	2.7	1 1/2 x 1 1/2		
21A5028	TR133	E133	2.13	4	1.67	4.2	1 1/2 x 2 1/2		
21A5029	TR133R	E133N	2.38	4	1.87	4.05	1 1/2 x 2 1/2		
21A5030	TR134R	E134N	2.89	2	2.27	5.40	1 1/2 x 2 1/2		
21A5031	TR135R	E135N	3.40	2	2.68	6.75	1 1/2 x 3 1/4		
21A5032	TR136R	E136N	3.83	2	3.00	8.1	1 1/2 x 3 1/4		
21A5033	TR146X	E146X	1.66	4	1.27	8.4	1 1/2 x 1 1/2		
21A5034	TR163	E163	2.34	2	1.84	4.2	1 1/2 x 1 1/2		
21A5035	TR164	E164	2.13	4	1.67	5.6	1 1/2 x 1 3/4		
21A5036	TR165	E165	2.76	2	2.17	7	1 1/2 x 2 1/2		
21A235	TR175	E175	1.91	4	1.50	7	1 1/2 x 1 1/2		
21A5037	TR177	E177	2.12	4	1.67	9.8	1 1/2 x 1 1/2		
21A5038	TR233	E233N	3.83	2	3.00	4.2	1 1/2 x 1 1/2		
21A5057	TR289	E289	4.25	4	3.35	2.6	1 1/2 x 2 1/2		
21A5059	ZM-9	E9	.85	4	.65	1.4	1/2 x 1 1/2		

MALLORY PHOTOGRAPHIC BATTERIES

21A5079	7R31	538	1.91	4	1.49	4.5	Instamatic X30
21A196	PX13B	EPX13	.86	4	.67	1.35	Instamatic M24
21A5068	PX23B	EPX23	.85	4	.67	5.6	Matina S1
21A5080	PX30	EPX30	1.28	4	.98	3.0	Instamatic X35
21A5006	PX825	EPX825	.64	4	.49	1.5	Flashcube

EVEREADY BATTERIES FOR RADIO AND ELECTRONICS

PHOTO FLASH BATTERIES

Stock No.	Eveready Type	Burgess Equiv.	Each	Voltage	Wt. Lbs.	Dimensions L. W. H.
21B116	460K	XX150	2.40	225	.8	Winklite w/Lamp
21A218	489	U160	7.88	240	2.7	4 1/2 x 2 1/2 x 4 1/2
21A219	491	U320	7.19	510	1.6	2 1/2 x 1 1/2 x 4 1/2
21A205	497	Y10	12.98	510	1.6	3 x 1 1/2 x 5 3/8
21A128	504	Y10	1.03	1 1/2	.03	3/8 x 1 3/8
21A195	531		1.27	4 1/2	.08	For Polaroid
21A50	815	920	.20	1.5	.05	Pen Cell Size
21A51	835	120	.23	1 1/2	.1	C Cell Size
21A52	850	220	.23	1 1/2	.1	D Cell Size

RADIO-INSTRUMENT-ELECTRONIC EQUIPMENT

21B113	W350	Z30NX	3.42	45	1.0	5 1/2 x 1 1/2 x 4 1/2	
21B123	W353	ZF	1.33	1 1/2	.8	2 1/2 x 1 1/2 x 4 1/2	
21B71	411	U10	1.03	15	.05	1 1/2 x 3/8 x 1 1/2	
21A27	412	U15	1.20	22 1/2		1 1/2 x 3/8 x 2	
21B69	413	U20	1.34	30		1 1/2 x 3/8 x 2 1/2	
21B138	415	U30	1.88	45	.1	1 1/2 x 3/8 x 3 1/2	
21B164	416	UX45	2.23	67 1/2	.3	1 1/2 x 3/8 x 3 1/2	
21C165	417	K10	1.71	15	.1	1 1/2 x 3/8 x 3 1/2	
21B104	420	K15	2.02	22 1/2	.2	1 1/2 x 3/8 x 3 1/2	
21B110	425P	XX15	3.08	22 1/2	.3	1 1/2 x 3/8 x 3 1/2	
21B121	437	XX50	3.77	75	.5	1 1/2 x 1 1/2 x 6 1/2	
21A17	455	XX30	2.29	45	.9	2 1/2 x 1 1/2 x 3 1/2	
21B67	457	K45	2.91	67 1/2	.8	2 1/2 x 1 1/2 x 3 1/2	
21A18	467	XX45	2.71	67 1/2	.5	2 1/2 x 1 1/2 x 3 1/2	
21B26	477	P45	2.71	67 1/2	.5	1 1/2 x 1 1/2 x 7 1/2	
21B132	479	P60	2.98	90	.7	1 1/2 x 1 1/2 x 7 1/2	
21A19	482	M30	2.98	45	2.0	3 1/2 x 1 1/2 x 5 1/2	
21C143	484	B30	3.77	45	3.1	3 1/2 x 2 1/2 x 5 1/2	
21A337	487	D30	3.90	22.5	.45	6.5	5 1/2 x 2 1/2 x 7 1/4
21B20	490	N60	3.25	90	1.0		3 1/2 x 1 1/2 x 3 1/2
21B68	493	U200	9.75	300	1.2		2 1/2 x 2 1/2 x 3 1/2
21B145	505	Y15	1.20	22 1/2	.04		5/8 x 3/8 x 1 1/2
21C140	506	Y20	2.53	30	.05		1 1/2 x 3/8 x 1 1/2
21B93	703	532	1.54	4 1/2	.3		2 1/2 x 1 1/2 x 3 1/2
21B153	713	B5	2.71	7 1/2	.4		3 1/2 x 1 1/2 x 3 1/2
21B70	717	C5	1.30	7 1/2	.6		2 1/2 x 1 1/2 x 3 1/2
21B66	724	Z4	1.34	6	.2		1 1/2 x 1 1/2 x 2 1/2
21B122	735	4FH	1.06	1 1/2	1.5		2 3/8 x 2 3/8 x 4 3/8
21A192	738	Z30	3.42	45	1.5		3 x 2 1/2 x 4 1/8
21A12	742	4F	1.23	1 1/2	1.4		2 5/8 x 2 1/2 x 4
21A31	744	F4P1	1.20	6	1.4		2 5/8 x 2 1/2 x 3 1/2
21A15	746	C3	2.67	4 1/2	1.3		3 1/2 x 1 1/2 x 4 1/2
21B91	750	422	1.30	3	.1		1 1/2 x 1 1/2 x 2 1/2
21B92	751	432	2.02	4 1/2	.2		2 x 1 1/2 x 2 1/2
21B102	762S	5308	3.60	45	3.3		4 1/2 x 2 1/2 x 5 1/2
21B100	763	4156	1.88	22 1/2	.7		3 1/2 x 2 3/8 x 2 1/2
21A23	773	5540	2.40	7 1/2	.6		Scr. Term. & Lead
21B101	778	51565C	5.45	22 1/2	1.5		4 1/2 x 2 1/2 x 3 1/2
21A9	781	5360	1.71	4 1/2	.4		Scr. Term.
21B11	964	21R	.65	1 1/2	.6		1 1/2 dia. x 4
21A135	2356N	C6X	2.40	9	.7		2 1/2 x 1 1/2 x 6 1/4

Eveready Nickel-Cadmium 1.25 V Rechargeable Batteries

Stock No.	Type	Amp Hours	Burgess Equiv.	Net Each	Wt. Lbs.	Replaces
21A5056	CH500	5		\$2.00	.06	Size AA 915
21A194	CH1.5	1.5	CD14	5.67	.12	Size C 935
21A234	CH4	4		6.64	.34	Size D 950

FABULOUS...

MALLORY

DURACELL BATTERIES LAST UP TO 5 TIMES LONGER THAN ORDINARY BATTERIES



21A5000	MN 9100	Replaces 904 or NE.	User Each	\$.51	2 @ Ea.	\$.39
21A5001	MN 1400	C Size Cell, 935 etc.	User Each	.68	4 @ Ea.	.52
21A5002	MN 1500	AA Penlight, 915 etc.	User Each	.60	4 @ Ea.	.46
21A5003	MN 1300	D Size Cell, 950 etc.	User Each	.85	4 @ Ea.	.65
21A5004	MN 2400	AAA Size, 912 etc.	User Each	.60	4 @ Ea.	.46
21A5005	MN 1604	9 Volt Transistor.	User Each	1.28	4 @ Ea.	.98

MALLORY RECHARGEABLE ALKALINE BATTERIES

21A230	SA13D	Replaces D Cell.	Each	\$1.49	6 @ Ea.	\$1.17
21A231	SA14C	Replaces C Cell.	Each	1.28	6 @ Ea.	1.00
21A232	SA15AA	Replaces AA Cell.	Each	.85	4 @ Ea.	.65
13A8022	Mallory BC16	Charger designed specifically for Rechargeable Alkaline Batteries.	Each			\$8.95

MALLORY SILVER OXIDE BATTERIES

Tiny, long life cells for Zenith and Audiotex hearing aids.						
21A5007	MS13	1.5 V.	21x.31"	Each	.47c	6 @ Ea. 37c
21A5008	M541	1.5 V.	16x.46"	Each	.47c	6 @ Ea. 37c
21A5009	M576	1.5 V.	21x.46"	Each	.64c	6 @ Ea. 50c

RCA AND EVEREADY BATTERIES



ENERGIZERS — TRANSISTOR BATTERIES

RCA Stock No.	RCA No.	Eveready Stk. No.	Eveready Number	Price	Volts	Wt. Lbs.	Dimensions	Burgess Equivalent
21A43	VS327	21A304	206	Ea. \$0.62	9	.08	3/4" Dia. x 2"	L6
21B141	VS323	21A305	216	Ea. .54	9	.08	9 Volt Transistor	2U6
		21A196	222	Ea. .64	9	.08	Premium 9 volt	
21B159	VS309A	21A306	226	Ea. .79	9	.1	1" Dia. x 1 1/2"	P6
21A235	VS329	21A307	228	Ea. 1.20	12	.14	1" Dia. x 2 1/2"	PM8
21C62	VS304	21A308	239	Ea. 2.40	13 1/2	.2	1 1/4" x 1 1/4" x 2 1/2"	MX9
21B142	VS305	21A309	246	Ea. 1.54	9	.3	1 1/4" x 1 1/4" x 2 3/4"	2N6
21A30	VS322	21A310	266	Ea. 1.36	9	.44	1 1/4" x 1 1/4" x 2 3/4"	M6
21B137	VS306	21A311	276	Ea. 1.71	9	1.0	2 1/4" x 2 1/4" x 3 1/4"	D6
21A66	VS332	21A312	333	Ea. .68	4 1/2	.06	.662" Dia. x 1.965	1306
21B78	VS334	21A313	1015	Ea. .19	1 1/2	.05	AA Cell	930
21A39	VS335	21A314	1035	Ea. .23	1 1/2	.1	C Cell	130
21A38	VS336	21A315	1050	Ea. .23	1 1/2	.2	D Cell	230

ALKALINE LONG LIFE, HIGH DRAIN TYPES

21A131	VS1073	21A5040	E90	Ea. .39	1 1/2	.02	N Size	AL-N
21A41	VS1334	21A5041	E91	Ea. .45	1 1/2	.05	AA Size	AL-9
21A197	VS1074	21A5042	E92	Ea. .45	1 1/2	.03	AAA Size	AL-7
21A133	VS1335	21A5043	E93	Ea. .52	1 1/2	.13	C Size	AL-1
21A53	VS1336	21A5044	E95	Ea. .65	1 1/2	.3	D Size	AL-2
21A5060	VS1323			Ea. .98	9	.1	9 Volt Transistor	
21A187	VS1149	21A5045	523	Ea. 1.27	4 1/2	.07	Pen Cell Size	PX21
21A224	VS1339	21A5046	532	Ea. 1.14	3	.06	.664" Dia. x 1.67	PX24
21A225	VS1561	21A5047	561	Ea. 11.29	15	6.	8 1/2" x 2 1/4" x 5 7/8"	
21A221	VS1563	21A5048	563	Ea. 3.00	4 1/2	.9	1 1/4" Dia. x 7 3/8"	
21A222	VS1564	21A5049	564	Ea. 10.99	13 1/2	5.5	8 1/2" x 2 1/4" x 5 7/8"	

FLASHLIGHT, LANTERN, EMERGENCY LIGHTING, TOYS

21A5	VS006S	21A316	No. 6	Ea. 1.17	1 1/2	2	2 5/8" Dia. x 6 1/2"	6 Ign.
		21A317	W357	Ea. 2.70	2.7	2.7	3 3/8" x 2 1/4" x 5	



CORNELL-DUBILIER CAPACITORS

WBR TUBULAR ELECTROLYTICS

All the characteristics of the Blue Beaver BR Series updated in smaller size, with Thermoplastic insulation for more compact circuitry in all single section types. Dual and triple section units have Kraftboard insulating sleeves. Tinned wire leads on all single section, duals and triples have insulated leads with mtg. strap. Rated 85° C except 500 V. and higher 65° C. Tolerance to 50 V. -10% to +150%. 51 to 350 V. -10% to +100%. 351 V. and over -10% to 50%. Can size shown.

WBR SINGLE SECTION

Stock No.	uf	VV DC	Size	1-24 Each	25-49	50-99	100-249	250-499	500-999	1000 Up
15A5216	3000	10	1/4x1 1/2	\$2.10	\$1.57	\$1.22	\$0.98	\$0.84	\$0.77	\$0.70
15A5217	4000	10	1/4x1 1/2	2.62	1.89	1.47	1.17	1.00	.92	.85
15A5218	5000	10	1/4x2	3.00	2.25	1.75	1.40	1.20	1.10	1.00
15A5606	100	16	1/2x1 1/2	.89	.52	.40	.32	.28	.25	.23
15A5606	500	16	1/2x1 1/2	1.08	.81	.63	.51	.43	.40	.36
15A5607	1000	16	1/2x1 1/2	1.38	1.07	.83	.67	.58	.53	.48
15A5608	2000	16	1/2x2	1.68	1.26	.97	.78	.67	.62	.56
15A5609	5000	16	1/2x2	3.27	2.45	1.91	1.53	1.30	1.20	1.09
15A5219	1000	18	1/4x3 1/2	6.19	3.89	3.03	2.42	2.08	1.91	1.73
15A5609	10	25	1/2x1 1/2	.57	.43	.33	.27	.23	.21	.19
15A5610	25	25	1/2x1 1/2	.60	.46	.35	.28	.24	.22	.20
15A5611	50	25	1/2x1 1/2	.83	.47	.37	.30	.26	.23	.21
15A5612	100	25	1/2x1 1/2	.75	.66	.44	.35	.30	.28	.25
15A5613	250	25	1/2x1 1/2	1.05	.79	.61	.49	.42	.39	.35
15A5614	500	25	1/2x1 1/2	1.41	1.06	.82	.66	.57	.52	.47
15A5615	1000	25	1/2x1 1/2	2.37	1.78	1.38	1.11	.95	.87	.79
15A5616	2000	25	1/2x2 1/2	2.31	2.18	1.70	1.36	1.17	1.07	.97
15A5226	100	35	1/2x1 1/2	.75	.56	.44	.35	.30	.28	.25
15A5227	300	35	1/2x1 1/2	1.02	.79	.61	.49	.42	.39	.35
15A5228	500	35	1/2x1 1/2	1.44	1.08	.84	.67	.58	.53	.48
15A5229	1000	35	1/2x1 1/2	2.40	1.80	1.40	1.12	.96	.88	.80
15A5230	2000	35	1/2x2 1/2	3.21	2.40	1.87	1.49	1.28	1.18	1.07
15A5231	3000	35	1/2x2 1/2	3.60	2.70	2.10	1.68	1.44	1.32	1.20
15A5232	5600	35	1/2x3 1/2	6.40	4.05	3.15	2.52	2.16	1.98	1.80
15A5596	1	50	1/2x1 1/2	.51	.38	.30	.24	.21	.19	.17
15A5596	5	50	1/2x1 1/2	.57	.42	.33	.26	.22	.21	.185
15A5617	10	50	1/2x1 1/2	.57	.42	.33	.27	.23	.21	.19
15A5618	25	50	1/2x1 1/2	.60	.44	.36	.28	.24	.22	.20
15A5619	60	50	1/2x1 1/2	.72	.54	.42	.33	.29	.26	.24
15A5620	100	50	1/2x1 1/2	.78	.59	.46	.37	.31	.29	.26
15A5621	150	50	1/2x1 1/2	.87	.66	.51	.41	.35	.32	.28
15A5622	250	50	1/2x1 1/2	1.06	.83	.64	.51	.44	.41	.37
15A5623	500	50	1/2x1 1/2	1.44	1.10	.88	.69	.59	.54	.49
15A5624	1000	50	1/2x2	2.49	1.84	1.44	1.15	.98	.90	.82
15A5626	2000	50	1/2x2 1/2	3.45	2.69	2.01	1.61	1.38	1.27	1.15
15A5220	3000	50	1/2x4	3.90	2.92	2.28	1.82	1.56	1.43	1.30
15A5221	5000	50	1/2x3 1/2	5.85	4.38	3.41	2.73	2.34	2.15	1.96
15A5233	150	75	1/2x1 1/2	.96	.71	.65	.44	.38	.35	.316
15A5234	500	75	1/2x2	2.19	1.64	1.28	1.02	.88	.80	.73
15A5235	1000	75	1/2x2 1/2	3.76	2.81	2.18	1.75	1.50	1.38	1.25
15A6236	2000	75	1/2x2 1/2	5.25	3.93	3.06	2.45	2.10	1.93	1.75
15A5222	400	100	1/2x2 1/2	1.80	1.35	1.05	.84	.72	.66	.60
15A5223	600	100	1/2x2 1/2	2.70	2.01	1.54	1.25	1.07	.99	.895
15A5224	1000	100	1/2x4	4.05	3.03	2.36	1.89	1.62	1.49	1.35
15A5225	2000	100	1/2x4 1/2	6.70	4.28	3.32	2.68	2.28	2.09	1.90
15A5626	4	150	1/2x1 1/2	.57	.43	.33	.27	.23	.21	.19
15A5627	8	150	1/2x1 1/2	.60	.45	.35	.28	.24	.22	.20
15A5628	10	150	1/2x1 1/2	.63	.46	.36	.29	.25	.23	.205
15A5629	16	150	1/2x1 1/2	.66	.49	.38	.31	.27	.24	.22
15A5629	20	150	1/2x1 1/2	.66	.50	.39	.31	.27	.24	.22
15A5630	30	150	1/2x1 1/2	.72	.54	.42	.34	.29	.26	.24
15A5631	40	150	1/2x1 1/2	.78	.59	.46	.37	.31	.29	.26
15A5632	50	150	1/2x1 1/2	.81	.61	.47	.38	.33	.30	.27
15A5633	80	150	1/2x1 1/2	.90	.68	.53	.42	.36	.33	.30
15A5634	100	150	1/2x1 1/2	.99	.74	.58	.46	.40	.36	.33

CORNELL-DUBILIER DIPPED SILVERED MICAS

Rated 500 working volts DC. Temperature range —55° to +125° C. 5% tolerance except 5 p.f. is ±1/2 p.f.
Size of CD15 from .45 x .36 x .17 to .49 x .42 x .24".
Size of CD19 from .65 x .51 x .20 to .71 x .59 x .37".
Size of CD30 is .80 x .89 x .34"

Specify Stock No. 15M2122 and Capacity on Orders

Cap. Pf.	Mfg. Type	1-24 Ea.	25-99 Ea.	100-499 Ea.	500-999 Ea.	1000 Up
5*	CD15CD050D03	\$0.32	\$0.19	\$0.16	\$0.80	\$0.64
10	CD15CD100J03	.32	.19	.16	.80	.64
22	CD15ED220J03	.26	.15	.086	.065	.052
27	CD15ED270J03	.26	.15	.086	.065	.052
33	CD15ED330J03	.26	.15	.086	.065	.052
39	CD15ED390J03	.26	.15	.086	.065	.052
47	CD15ED470J03	.26	.15	.086	.065	.052
51	CD15ED510J03	.26	.15	.086	.065	.052
56	CD15ED560J03	.26	.15	.086	.065	.052
68	CD15ED680J03	.26	.15	.086	.065	.052
75	CD15ED750J03	.26	.15	.086	.065	.052
100	CD15FD101J03	.26	.15	.088	.066	.053
150	CD15FD151J03	.31	.18	.102	.077	.061
200	CD15FD201J03	.35	.21	.118	.089	.071
270	CD15FD271J03	.43	.25	.142	.107	.085
300	CD15FD301J03	.45	.26	.150	.113	.090
360	CD15FD361J03	.52	.31	.174	.131	.105
390	CD15FD391J03	.55	.32	.182	.137	.109
430	CD15FD431J03	.59	.34	.196	.147	.118
470	CD15FD471J03	.61	.36	.204	.153	.123
510	CD15FD511J03	.66	.39	.220	.165	.132
560	CD19FD561J03	.43	.25	.142	.107	.085
680	CD19FD681J03	.47	.27	.156	.117	.094
750	CD19FD751J03	.51	.30	.170	.128	.102
820	CD19FD821J03	.51	.30	.170	.128	.102
910	CD19FD911J03	.55	.32	.184	.138	.111
1000	CD19FD102J03	.60	.35	.200	.150	.120
1500	CD19FD152J03	.82	.48	.272	.204	.163
2000	CD19FD202J03	.99	.58	.330	.248	.198
2400	CD19FD242J03	1.13	.66	.378	.284	.227
3000	CD19FD302J03	1.44	.84	.480	.360	.288
4300	CD19FD432J03	2.00	1.17	.668	.501	.401
4700	CD19FD472J03	2.15	1.28	.718	.539	.431
5100	CD19FD512J03	2.36	1.38	.788	.591	.473
10,000	CD30FD103J03	3.11	1.82	1.038	.779	.623

WBR SINGLE SECTION (Continued)

Stock No.	uf	VV DC	Size	1-24 Each	25-49	50-99	100-249	250-499	500-999	1000 Up
15A5635	150	150	1/2x1 1/2	1.08	.81	.63	.50	.43	.40	.36
15A5636	200	150	1/2x2	1.32	.99	.77	.62	.53	.49	.44
15A5598	250	150	1x1 1/2	1.65	1.24	.96	.77	.66	.61	.55
15A5637	300	150	1x2 1/2	1.80	1.35	1.05	.84	.72	.66	.60
15A5638	4	250	1/2x1 1/2	.63	.47	.37	.30	.25	.23	.21
15A5639	8	250	1/2x1 1/2	.72	.53	.41	.33	.28	.26	.235
15A5640	12	250	1/2x1 1/2	.75	.56	.44	.35	.30	.28	.25
15A5641	20	250	1/2x1 1/2	.84	.63	.49	.39	.34	.31	.28
15A5642	30	250	1/2x1 1/2	.90	.68	.53	.42	.36	.33	.30
15A5643	40	250	1/2x1 1/2	.93	.73	.57	.46	.40	.36	.33
15A5644	50	250	1/2x1 1/2	1.08	.81	.63	.51	.43	.40	.36
15A5645	100	250	1/2x2	1.29	.97	.75	.60	.52	.47	.43
15A5646	225	250	1x2 1/2	2.10	1.58	1.23	.98	.84	.77	.70
15A5647	2	450	1/2x1 1/2	.88	.52	.40	.32	.28	.25	.23
15A5648	4	450	1/2x1 1/2	.72	.54	.42	.34	.29	.27	.24
15A5649	8	450	1/2x1 1/2	.78	.59	.46	.37	.31	.29	.26
15A5650	10	450	1/2x1 1/2	.78	.59	.46	.37	.31	.29	.26
15A5591	16	450	1/2x1 1/2	.90	.68	.53	.42	.36	.33	.30
15A5651	20	450	1/2x1 1/2	.96	.72	.56	.46	.39	.35	.32
15A5652	30	450	1/2x1 1/2	1.05	.79	.61	.49	.42	.39	.35
15A5653	40	450	1/2x2	1.11	.83	.65	.52	.45	.41	.37
15A5599	50	450	1/2x2 1/2	1.29	.97	.75	.60	.52	.47	.43
15A5654	80	450	1x2 1/2	1.68	1.26	.98	.79	.67	.62	.56
15A5655	100	450	1x3 1/2	1.98	1.49	1.16	.93	.79	.73	.66
15A5656	160	450	1x4 1/2	2.85	2.14	1.66	1.33	1.14	1.06	.95
15A5657	225	450	1x4 3/4	4.02	3.01	2.34	1.87	1.61	1.47	1.34
15A5590	5	600	1/2x1 1/2	.78	.59	.45	.36	.31	.29	.26
15A5658	8	600	1/2x1 1/2	.82	.61	.47	.38	.33	.30	.27
15A5600	18	600	1/2x1 1/2	.93	.70	.54	.44	.37	.34	.31
15A5593	20	600	1/2x2	.96	.74	.58	.46	.40	.36	.33
15A5659	30	600	1/2x2 1/2	1.05	.82	.65	.52	.44	.41	.37
15A5602	8	600	1/2x2 1/2	1.68	1.26	.98	.79	.67	.62	.56
15A5680	20	600	1/2x3 1/2	2.31	1.73	1.35	1.08	.93	.85	.77
15A5692	10	700	1/2x3 1/2	1.86	1.40	1.09	.87	.74	.68	.62
15A5604	16	700	1/2x4 1/2	2.25	1.69	1.31	1.05	.90	.82	.75

CORNELL-DUBILIER CAPACITORS

CORNELL-DUBILIER DMF MINIATURE DIPPED MYLAR CAPACITORS

Flat pressed mylar dielectric radial lead capacitor. Moisture and humidity resistant. 85°C operating temperature at full rated voltage. Tolerance ± 10%. Lead spacing $\frac{1}{16}$ for $\frac{1}{8}$ " length, $\frac{1}{16}$ for $\frac{1}{4}$ ". 20AWG leads. Order by Stock No. and Capacity

100 WVDC—Stock No. 15M410

uf	DMF No.	Size Inches	1-24 Each	25-49 Each	50-99 Each	100-499 Each	500-999 Each	1000 Up Ea.
.015	1S15	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	\$0.21	\$0.16	\$0.12	\$0.10	\$0.09	\$0.07
.022	1S22	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.12	.10	.09	.07
.033	1S33	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.12	.10	.09	.07
.047	1S47	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.24	.17	.13	.11	.09	.08
.068	1S68	$\frac{1}{2} \times \frac{3}{16} \times \frac{3}{16}$	.24	.18	.14	.12	.10	.08
.1	1P1	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.27	.20	.16	.13	.11	.09
.15	1P15	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.33	.25	.19	.16	.14	.11
.22	1P22	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.39	.29	.23	.19	.16	.13
.33	1P33	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.45	.32	.25	.22	.18	.14
.47	1P47	$\frac{3}{16} \times \frac{3}{16} \times \frac{1}{2}$	.51	.38	.29	.25	.21	.17
.68	1P68	$\frac{3}{16} \times \frac{3}{16} \times \frac{1}{2}$	.57	.42	.33	.28	.23	.19
1.0	1W1	$\frac{3}{16} \times \frac{3}{16} \times \frac{1}{2}$	.75	.57	.44	.38	.31	.25

200 WVDC—Stock No. 15M420

uf	DMF No.	Size Inches	1-24 Each	25-49 Each	50-99 Each	100-499 Each	500-999 Each	1000 Up Ea.
.01	2S1	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.12	.10	.09	.07
.015	2S15	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.12	.10	.09	.07
.022	2S22	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.12	.10	.09	.07
.033	2S33	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.12	.10	.09	.07
.047	2S47	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.24	.17	.13	.11	.09	.08
.068	2S68	$\frac{1}{2} \times \frac{3}{16} \times \frac{3}{16}$	.24	.18	.14	.12	.10	.08
.1	2P1	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.27	.20	.16	.13	.11	.09
.15	2P15	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.33	.25	.19	.16	.14	.11
.22	2P22	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.39	.29	.23	.19	.16	.13

CORNELL-DUBILIER WMF WRAPPED MYLAR TUBULARS

WMF axial lead, Mylar tubular capacitor is ideal where space is limited and requirements are demanding. Minimum size and maximum moisture resistance. Tolerance is ±10%. Operating temperature range is -55C to +125C. For temperature above 85C, derate voltage 10% at 100C, and 50% at 125C.

SPECIFY STOCK NUMBER AND CAPACITY ON ALL ORDERS

50 WVDC—Stock No. 15M2283

uf	WMF No.	Size Inches	1-24 Each	25-49 Each	50-99 Each	100-499 Each	500-999 Each	1 M Up
.1	05P1	.25 X $\frac{1}{8}$	\$0.33	\$0.24	\$0.19	\$0.161	\$0.134	\$0.107
.15	05P15	.285 X $\frac{1}{8}$	.33	.25	.19	.165	.138	.110
.22	05P22	.33 X $\frac{1}{8}$	.36	.26	.21	.174	.145	.116
.27	05P27	.39 X $\frac{1}{8}$	.39	.29	.22	.191	.159	.127
.33	05P33	.4 X $\frac{1}{8}$	.42	.31	.24	.207	.173	.138
.47	05P47	.375 X $\frac{1}{8}$	.51	.38	.30	.254	.211	.169
.68	05P68	.49 X $\frac{1}{8}$	.66	.49	.38	.323	.269	.215
1.0	05W1	.5 X $\frac{1}{8}$	.90	.68	.53	.452	.376	.301
2.0	05W2	.6 X $\frac{1}{8}$	1.50	1.12	.87	.747	.623	.498
3.0	05W3	.73 X $\frac{1}{8}$	2.10	1.57	1.22	1.05	.873	.698
4.0	05W4	.76 X $\frac{1}{8}$	2.49	1.86	1.44	1.24	1.03	.824
5.0	05W5	.85 X $\frac{1}{8}$	3.09	2.32	1.80	1.55	1.29	1.03

100 WVDC—Stock No. 15M996

uf	DMF No.	Size Inches	1-24 Each	25-49 Each	50-99 Each	100-499 Each	500-999 Each	1 M Up
.001	1D1	.15 X $\frac{1}{2}$	\$0.27	\$0.20	\$0.15	\$0.131	\$0.109	\$0.087
.0015	1D15	.15 X $\frac{1}{2}$	.27	.20	.15	.131	.109	.087
.0022	1D22	.15 X $\frac{1}{2}$	.27	.20	.15	.131	.109	.087
.0033	1D33	.15 X $\frac{1}{2}$	.27	.20	.15	.131	.109	.087
.0047	1D47	.15 X $\frac{1}{2}$	.27	.20	.15	.131	.109	.087
.0068	1D68	.17 X $\frac{1}{2}$	.27	.20	.15	.131	.109	.087
.01	1S1	.2 X $\frac{1}{2}$	.27	.20	.15	.131	.109	.087
.015	1S15	.23 X $\frac{1}{2}$	.27	.20	.15	.131	.109	.087
.022	1S22	.27 X $\frac{1}{2}$	.27	.20	.15	.131	.109	.087
.033	1S33	.3 X $\frac{1}{2}$	.27	.20	.15	.131	.109	.087
.047	1S47	.26 X $\frac{1}{2}$	.27	.21	.16	.137	.114	.091
.068	1S68	.28 X $\frac{1}{2}$	.30	.22	.17	.144	.120	.096
.1	1P1	.29 X $\frac{1}{2}$	.30	.22	.17	.147	.123	.098
.15	1P15	.33 X $\frac{1}{2}$	.30	.23	.18	.15	.125	.10
.22	1P22	.38 X $\frac{1}{2}$	.33	.24	.19	.158	.131	.105
.33	1P33	.41 X $\frac{1}{2}$	.39	.28	.22	.189	.158	.126
.47	1P47	.47 X $\frac{1}{2}$	.45	.34	.27	.23	.191	.153
1.0	1W1	.62 X $\frac{1}{2}$	.84	.62	.48	.411	.343	.274
2.0	1W2	.95 X $\frac{1}{2}$	1.35	1.02	.79	.678	.565	.452

200 WVDC—Stock No. 15M997

uf	DMF No.	Size Inches	1-24 Each	25-49 Each	50-99 Each	100-499 Each	500-999 Each	1 M Up
.001	2D1	.15 X $\frac{1}{2}$	.27	.20	.15	.131	.109	.087
.0047	2D47	.17 X $\frac{1}{2}$	.27	.20	.15	.131	.109	.087
.01	2S1	.23 X $\frac{1}{2}$	.27	.20	.15	.131	.109	.087
.022	2S22	.27 X $\frac{1}{2}$	.27	.20	.15	.131	.109	.087
.047	2S47	.32 X $\frac{1}{2}$	.27	.21	.16	.137	.114	.091
.1	2P1	.41 X $\frac{1}{2}$	.36	.26	.20	.174	.145	.116
.22	2P22	.5 X $\frac{1}{2}$	.39	.29	.23	.195	.163	.13
.47	2P47	.6 X $\frac{1}{2}$	.51	.38	.29	.251	.209	.167
.68	2P68	.65 X $\frac{1}{2}$	.60	.44	.34	.294	.245	.196
1.0	2W1	.75 X $\frac{1}{2}$	.84	.62	.48	.411	.343	.274
2.0	2W2	.98 X $\frac{1}{2}$	1.35	1.02	.79	.678	.565	.452

400 WVDC—Stock No. 15M998

uf	DMF No.	Size Inches	1-24 Each	25-49 Each	50-99 Each	100-499 Each	500-999 Each	1000 Up Ea.
.01	4S1	.3 X $\frac{1}{2}$	.30	.22	.17	.149	.124	.099
.022	4S22	.32 X $\frac{1}{2}$	.30	.22	.17	.149	.124	.099
.047	4S47	.4 X $\frac{1}{2}$	.30	.23	.18	.155	.129	.103
.1	4P1	.46 X $\frac{1}{2}$	.33	.25	.20	.168	.140	.112
.22	4P22	.56 X $\frac{1}{2}$	.42	.30	.24	.201	.168	.134
.47	4P47	.7 X $\frac{1}{2}$	.78	.58	.46	.389	.324	.259
1.0	4W1	.875 X $\frac{1}{2}$	1.14	.85	.66	.566	.471	.377
2.0	4W2	1.25 X $\frac{1}{2}$	1.86	1.39	1.08	.923	.769	.615

200 WVDC—Stock No. 15M420

uf	DMF No.	Size Inches	1-24 Each	25-49 Each	50-99 Each	100-499 Each	500-999 Each	1000 Up Ea.
.33	2P33	$\frac{3}{16} \times \frac{3}{16} \times \frac{1}{2}$	.45	.32	.25	.22	.18	.14
.47	2P47	$\frac{3}{16} \times \frac{3}{16} \times \frac{1}{2}$	.51	.38	.29	.25	.21	.17
.68	2P68	$\frac{3}{16} \times \frac{3}{16} \times \frac{1}{2}$	.57	.42	.33	.28	.23	.19

400 WVDC—Stock No. 15M2279

uf	DMF No.	Size Inches	1-24 Each	25-49 Each	50-99 Each	100-499 Each	500-999 Each	1000 Up Ea.
.0047	4D47	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.12	.10	.09	.07
.0068	4D68	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.12	.10	.09	.07
.01	4S1	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.12	.10	.09	.07
.015	4S15	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.12	.10	.09	.07
.022	4S22	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.12	.10	.09	.07
.033	4S33	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.12	.10	.09	.07
.047	4S47	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.24	.17	.13	.11	.09	.08
.068	4S68	$\frac{1}{2} \times \frac{3}{16} \times \frac{3}{16}$	.27	.19	.15	.13	.11	.09
.1	4P1	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.30	.22	.17	.15	.12	.10
.15	4P15	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.36	.26	.20	.17	.14	.12
.22	4P22	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.39	.29	.23	.19	.16	.13

600 WVDC—Stock No. 15M2280

uf	DMF No.	Size Inches	1-24 Each	25-49 Each	50-99 Each	100-499 Each	500-999 Each	1000 Up Ea.
.001	6D1	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.13	.10	.09	.07
.0015	6D15	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.13	.10	.09	.07
.0022	6D22	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.13	.10	.09	.07
.0033	6D33	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.13	.10	.09	.07
.0047	6D47	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.13	.10	.09	.07
.0068	6D68	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.13	.10	.09	.07
.01	6S1	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.13	.10	.09	.07
.015	6S15	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.13	.10	.09	.07
.022	6S22	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.21	.16	.13	.10	.09	.07
.033	6S33	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.27	.19	.15	.13	.11	.09
.047	6S47	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.30	.22	.17	.15	.12	.10
.068	6S68	$\frac{1}{2} \times \frac{3}{16} \times \frac{3}{16}$	.33	.25	.19	.16	.14	.11
.1	6P1	$\frac{3}{16} \times \frac{3}{16} \times \frac{3}{16}$	.39	.28	.22	.19	.16	.13

CORNELL-DUBILIER DPMS DIPPED PAPER-MYLAR CAPACITORS

Combination paper-Mylar in high-impact rock-hard dipped casing affords excellent protection against moisture and soldering iron contacts. Leads are straight. Operates from -55° C. to +125° C. at full rated voltage. 20AWG tinned copper leads.

400 WVDC - Order by Stk No. 15M421 and uf.

uf	DPMS No.	D, X L.	Lead Spacing	1-24 Each	25-49 Each	50-99 Each	100-499 Each	500-999 Each	1000 Up Ea.
.01	4S1	.390 X .600	.530	\$0.18	\$0.14	\$0.11	\$0.10	\$0.08	\$0.06
.02	4S2	.390 X .855	.688	.18	.14	.11	.10	.08	.06
.1	4P1	.520 X 1.180	1.00	.27	.20	.16	.13	.11	.09
.22	4P22	.620 X 1.560	1.375	.36	.26	.21	.18	.15	.12
.25	4P25	.650 X 1.560	1.375	.42	.32	.25	.21	.18	.14
.47	4P47	.850 X 1.600	1.375	.60	.44	.34	.29	.24	.19
.5	4P5								



CORNELL-DUBILIER CAPACITORS

CORNELL-DUBILIER FAH COMPUTAMITE COMPUTER QUALITY CAPACITORS

Reliable long life Aluminum Electrolytic Capacitors for power supply filtering, charge-discharge applications and others requiring high Mfd X volts per cubic inch. Shock and vibration resistant. Meets MIL-STD-202. All aluminum construction. Stable capacitance vs temperature. Temperature range -40° C to +85° C. Tolerance of 3 to 50 DCV -10 + 100%, 51 to 350 OCV -10 + 75%, 351 to 450 OCV -10 + 50%.

Stk. No.	Mfr. No.	Cap. uf	DC WV	Size Dia. X L.	1-24 Each	25-49 Each	50-99 Each	100 Up Each
15A5237	FAH852-10	8,500	10	1 1/4 X 2 1/4	\$2.40	\$1.68	\$1.30	\$1.15
15A5238	FAH1452-10	14,500	10	1 1/4 X 3 1/4	2.75	1.93	1.49	1.32
15A5239	FAH223-10	22,000	10	1 1/4 X 4 1/4	3.15	2.21	1.70	1.51
15A5240	FAH373-10	37,000	10	1 1/4 X 4 1/4	4.43	3.10	2.39	2.12
15A5241	FAH1353-10	135,000	10	3 X 4 1/4	12.03	8.42	6.49	5.77
15A5242	FAH652-15	6,500	15	1 1/4 X 2 1/4	2.40	1.68	1.30	1.15
15A5243	FAH113-15	11,000	15	1 1/4 X 3 1/4	2.75	1.93	1.49	1.32
15A5244	FAH173-15	17,000	15	1 1/4 X 4 1/4	3.20	2.24	1.73	1.53
15A5245	FAH2852-15	28,500	15	1 1/4 X 4 1/4	4.43	3.10	2.39	2.12
15A5246	FAH4252-15	42,500	15	2 X 4 1/4	5.40	3.78	2.92	2.59
15A5247	FAH603-15	60,000	15	2 X 5 1/4	6.75	4.73	3.65	3.24
15A5248	FAH154-15	150,000	15	3 X 5 1/4	15.45	10.82	8.34	7.41
15A5249	FAH372-25	3,700	25	1 1/4 X 2 1/4	2.33	1.63	1.26	1.12
15A5250	FAH602-25	6,000	25	1 1/4 X 3 1/4	2.75	1.93	1.49	1.32
15A5251	FAH952-25	9,500	25	1 1/4 X 4 1/4	3.20	2.24	1.73	1.53
15A5252	FAH163-25	16,000	25	1 1/4 X 4 1/4	4.30	3.01	2.32	2.06
15A5253	FAH3452-25	34,000	25	1 1/4 X 5 1/4	6.75	4.73	3.65	3.24
15A5254	FAH593-25	59,000	25	3 X 4 1/4	12.03	8.42	6.49	5.77
15A5255	FAH492-30	4,900	30	1 1/4 X 2 1/4	2.75	1.93	1.49	1.32
15A5256	FAH752-30	7,500	30	1 1/4 X 4 1/4	3.20	2.24	1.73	1.53
15A5257	FAH1252-30	12,500	30	1 1/4 X 4 1/4	4.30	3.01	2.32	2.06
15A5258	FAH1752-30	17,500	30	2 X 4 1/4	5.28	3.69	2.85	2.53
15A5259	FAH663-30	66,000	30	3 X 5 1/4	15.33	10.73	8.28	7.35
15A5260	FAH162-50	1,600	50	1 1/4 X 2 1/4	2.40	1.68	1.30	1.15
15A5261	FAH272-50	2,700	50	1 1/4 X 3 1/4	2.83	1.98	1.53	1.35
15A5262	FAH412-50	4,100	50	1 1/4 X 4 1/4	3.33	2.33	1.80	1.59
15A5263	FAH702-50	7,000	50	1 1/4 X 4 1/4	4.43	3.10	2.39	2.12
15A5264	FAH942-50	9,400	50	2 X 4 1/4	5.53	3.87	2.98	2.65
15A5265	FAH233-50	23,000	50	3 X 4 1/4	12.03	8.42	6.49	5.77
15A5266	FAH501-200	500	200	1 1/4 X 4 1/4	3.45	2.42	1.86	1.65
15A5267	FAH452-200	4,500	200	3 X 5 1/4	15.95	11.17	8.61	7.65
15A5268	FAH651-350	650	350	2 X 4 1/4	6.75	4.73	3.65	3.24
15A5269	FAH242-350	2,400	350	3 X 5 1/4	15.95	11.17	8.61	7.65
15A5270	FAH181-450	180	450	1 1/4 X 4 1/4	3.70	2.59	2.00	1.77
15A5271	FAH3250-450	325	450	1 1/4 X 4 1/4	5.53	3.87	2.98	2.65
15A5272	FAH601-450	600	450	2 X 5 1/4	7.60	5.32	4.11	3.65

PKM PAPER MYLAR TUBULARS

Combination dielectric strength of paper and mylar is superior to either paper or mylar alone. High impact resistant case also highly moisture and humidity resistant. Tolerance ± 10% temperature to 125° C.

SPECIFY STOCK NUMBER AND CAPACITY ON ALL ORDERS

Stk. No. 15M23-400 WVDC								
Cap. uf	Mfg. Type	Size	1-24 Each	25-49 Each	50-99 Each	100-499 Each	500-999 Each	1000 Up Ea.
.01	PKM4S1	1/2x1"	.21	.15	.12	.102	.085	.068
.027	PKM4S27	1/2x1 1/4"	.24	.17	.13	.114	.095	.076
.047	PKM4S47	1/2x1 1/2"	.24	.18	.14	.120	.100	.080
.05	PKM4S5	1/2x1 1/2"	.27	.20	.16	.135	.113	.090
.1	PKM4P1	1/2x1 1/2"	.27	.20	.16	.135	.113	.090
.15	PKM4P15	1/2x1 1/2"	.36	.27	.21	.180	.150	.120
.22	PKM4P22	1/2x1 1/2"	.36	.27	.21	.180	.150	.120
.25	PKM4P25	1/2x1 1/2"	.42	.32	.25	.210	.175	.140
.47	PKM4P47	1/2x1 1/2"	.57	.43	.33	.285	.238	.190
1.0	PKM4W1	1x2 1/2"	.96	.72	.56	.480	.400	.320

Stk. No. 15M24-600 WVDC								
Cap. uf	Mfg. Type	Size	1-24 Each	25-49 Each	50-99 Each	100-499 Each	500-999 Each	1000 Up Ea.
.0012	PKM6D12	1/2x1"	.21	.15	.12	.102	.085	.068
.0022	PKM6D22	1/2x1"	.21	.15	.12	.102	.085	.068
.0033	PKM6D33	1/2x1"	.21	.15	.12	.102	.085	.068
.005	PKM6D5	1/2x1"	.21	.15	.12	.102	.085	.068
.0068	PKM6D68	1/2x1"	.21	.15	.12	.102	.085	.068
.01	PKM6S1	1/2x1"	.21	.15	.12	.102	.085	.068
.015	PKM6S15	1/2x1"	.21	.15	.12	.102	.085	.068
.022	PKM6S22	1/2x1"	.21	.15	.12	.102	.085	.068
.033	PKM6S33	1/2x1"	.24	.17	.13	.114	.095	.076
.047	PKM6S47	1/2x1"	.24	.18	.14	.120	.100	.080
.05	PKM6S5	1/2x1"	.27	.20	.16	.135	.113	.090
.068	PKM6S68	1/2x1"	.27	.20	.16	.135	.113	.090
.1	PKM6P1	1/2x1"	.33	.25	.19	.165	.138	.110
.22	PKM6P22	1/2x1"	.54	.41	.32	.270	.225	.180
.25	PKM6P25	1/2x1"	.63	.47	.37	.315	.263	.210
.5	PKM6P5	1x2 1/2"	.93	.70	.54	.465	.388	.310

ANTENNA ROTOR CAPACITORS

Wide range types cover all rotor capacitor needs. Inter-mittent AC voltage rated 50 V. AC.

No. 15A5092. CD ETZ 10002-1. 66 to 92 uf. 7/8" x 2 3/4". Each \$1.19

No. 15A5093. CD ETZ 10011. 120 to 140 uf. 1 x 2 3/4". Each \$1.69

CORNELL-DUBILIER WIDE RANGE TWIST PRONG ELECTROLYTICS

Guaranteed electrical replacement for any capacity within the minimum to maximum ranges shown and any voltage equal to or lower than voltage shown. Example: to replace 18 uf @ 150 V. use 15A2047, 15 to 20 uf @ 500 V. *Indicates 1" can dia. All others 1 1/8" dia. Average shipp. wt. 8 ozs.

SINGLE SECTION

Cap. uf	Volts DC W.	Lgth.	Stk. No.	Each
15 to 20	500	*1 1/2	15A2047	\$1.35
30 to 40	500	*2	15A2046	1.80
35 to 40	450	*2	15A2045	1.65
60 to 80	500	*2	15A2044	2.40
60 to 100	150	*1 1/2	15A2035	1.38
60 to 100	300	*2	15A2042	1.80
100 to 125	450	*2 1/2	15A7518	2.55
100 to 160	250	*3	15A2036	1.98
100 to 160	250	*2 1/2	15A7519	1.98
100 to 160	350	*2 1/2	15A2040	2.40
130 to 175	150	*1 3/4	15A7520	1.56
120 to 200	150	*1 1/2	15A7521	1.80
120 to 200	150	*2	15A2034	1.80
120 to 200	300	*2	15A2041	2.40
275 to 350	350	*3 1/2	15A2038	3.99
240 to 400	150	*2	15A7522	2.16
250 to 500	50	*2	15A2033	1.80
300 to 500	100	*3	15A7523	1.98
350 to 750	25	*1 1/2	15A2031	1.50
500 to 1000	25	*2	15A2030	1.98
750 to 1500	50	*2	15A2032	2.85
1500 to 3000	25	*2	15A2028	2.67
1500 to 3000	40	*2 1/2	15A7524	3.48
2500 to 5000	45	*4	15A7525	4.98

DUAL SECTION

Cap. uf	Volts DC W.	Lgth.	Stk. No.	Each
7 to 10	500	*1 3/4	15A2068	\$1.56
15 to 20	500	*2	15A2067	1.98
20 to 30	350	*2	15A7511	1.77
30 to 40	250	*1 3/4	15A2059	1.71
30 to 40	500	*2	15A2066	2.58
30 to 50	150	*1 1/2	15A7500	1.59
30 to 50	450	*2 1/2	15A2065	2.49
40 to 60	350	*2 1/2	15A2063	2.01

TRIPLE SECTION

Cap. uf	Volts DC W.	Lgth.	Stk. No.	Each
10 to 15	450	*2 1/2	15A2085	\$2.04
15 to 20	500	*3	15A7516	2.40
20 to 30	350	*2	15A7534	1.98
30 to 40	500	*3	15A2093	3.15

Cap. uf	Volts DC W.	Lgth.	Stk. No.	Each
30 to 40	450			
30 to 40	450			
30 to 40	450	3	15A2084	2.94
35 to 50	500			
15 to 20	500			
25 to 50	25	2	15A2095	3.00
30 to 50	150			
30 to 50	150			
30 to 50	150	*1 3/4	15A2075	1.89
50 to 80	450			
30 to 40	450			
15 to 20	450	3	15A2081	3.21
60 to 80	450			
35 to 50	450			
60 to 100	200	3 1/2	15A2080	3.51
50 to 80	350			
40 to 60	350			
40 to 60	350	2 1/2	15A2089	3.42
60 to 80	450			
60 to 80	450			
20 to 30	450	4	15A2091	3.57
70 to 100	450			
60 to 80	450			
15 to 20	450	3 1/2	15A2088	3.63
60 to 100	150			
60 to 100	150			
60 to 100	150	*2 1/2	15A7532	2.70
90 to 120	300			
35 to 50	300			
30 to 40	300	2 1/2	15A2086	3.51
100 to 140	300			
50 to 100	300			
30 to 60	50	3	15A2078	3.51
150 to 200	350			
80 to 120	350			
60 to 80	350	4 1/2	15A2090	4.50
200 to 250	200			
120 to 200	200			
7 to 10	200	3	15A7517	4.08
200 to 250	200			
120 to 200	200			
100 to 150	200	3 1/2	15A7533	4.23
250 to 500	20			
250 to 500	20			
250 to 500	20	*1 1/2	15A7530	2.28
250 to 500	50			
250 to 500	50			
250 to 500	50	*3	15A7531	2.46

QUAD. SECTION

Cap. uf	Volts DC W.	Lgth.	Stk. No.	Each
7 to 10	500			
7 to 10	500			
7 to 10	500			
7 to 10	500	2	15A2119	2.37
15 to 20	500			
15 to 20	500			
15 to 20	500			
15 to 20	500	2	15A2118	2.94
15 to 20	500			
15 to 20	500			
60 to 100	100	2	15A2116	2.88
20 to 30	525			
15 to 20	525			
15 to 20	525			
15 to 20	525	3	15A2120	3.96
20 to 30	450			
15 to 20	450			

SPRAGUE CAPACITORS



TYPE 150D TANTALEX SOLID-TANTALUM CAPACITORS

Hermetically sealed metal case with plastic sleeve. Solid electrolyte cannot leak or corrode, even if hermetic seal is accidentally broken. Exhibit stable capacitance and low dissipation factor over temperature range of -80° C. to +85° C. Tolerance ± 10%.

Size Code: Last two digits of Sprague number gives size. A2-135 x .286"; B2-185 x .474"; R2-.289 x .686"; S2-351 x .786"

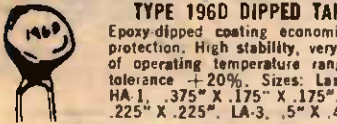
150D QUANTITY PRICES

Each	25-49	50-99	100-499	500
\$0.84	\$0.64	\$0.54	\$0.44	\$0.39
.92	.70	.59	.48	.43
1.00	.76	.64	.52	.46
1.08	.82	.69	.56	.50
1.84	1.39	1.17	.94	.82
2.60	1.96	1.64	1.32	1.16
2.76	2.08	1.74	1.40	1.23
3.60	2.71	2.27	1.82	1.60

Stock No.	Sprague No. 150D	uf	Each
15A8043	56X9006A2	5.6	\$0.84
15A8044	68X9006A2	6.8	.92
15A8045	47X9006B2	4.7	.92
15A8046	56X9006B2	5.6	.92
15A8047	157X9006R2	150	1.84
15A8048	187X9006R2	180	1.84
15A8049	227X9006S2	220	3.60
15A8050	277X9006S2	270	3.60
15A8051	337X9006S2	330	3.60

Stock No.	Sprague No. 150D	uf	Each
15A8059	107X9010R2	100	1.84
15A8060	127X9010R2	120	1.84
15A8061	187X9010S2	180	3.60
15A8062	227X9010S2	220	3.60

Stock No.	Sprague No. 150D	uf	Each	Stock No.	Sprague No. 150D	uf	Each
15A8088	826X9020S2	82	3.60	15A8129	825X9035R2	8.2	1.84
15A8089	107X9020S2	100	3.60	15A8130	106X9035R2	10	1.84
				15A8131	126X9035R2	12	1.84
				15A8132	156X9035R2	15	1.84
				15A8133	186X9035R2	18	1.84
				15A8134	226X9035R2	22	1.84
				15A8135	276X9035S2	27	3.60
				15A8136	336X9035S2	33	3.60
				15A8137	396X9035S2	39	3.60
				15A8138	476X9035S2	47	3.60



TYPE 196D DIPPED TANTALEX SOLID-TANTALUM CAPACITORS

Epoxy-dipped coating economically provides good electrical and mechanical protection. High stability, very little capacitance change, even at outer limits of operating temperature range (-55C to +85C). Low dissipation factor tolerance +20%. Sizes: Last three digits of type number indicates size; HA-1, .375" X .175" X .175"; JA-1, .425" X .225" X .225"; KA-1, .45" X .225" X .225"; LA-3, .5" X .45" X .25"; MA-3, .8" X .6" X .275"

196D QUANTITY PRICES

Each	25-49	50-99	100-499	500
\$0.48	\$0.36	\$0.30	\$0.24	\$0.21
.56	.42	.35	.28	.25
.64	.48	.40	.32	.28
.66	.50	.42	.34	.30
.68	.51	.43	.34	.30
.76	.57	.48	.38	.33
.84	.63	.53	.42	.37
1.28	.96	.80	.64	.56
1.40	1.05	.88	.70	.61
2.24	1.68	1.40	1.12	.98

Stock No.	Sprague No. 196D	uf	Each
15A8000	157X0006LA3	150	\$1.28
15A8001	337X0006MA3	330	2.24

Stock No.	Sprague No. 196D	uf	Each	Stock No.	Sprague No. 196D	uf	Each
15A8008	157X0015MA3	150	2.24	15A8024	155X0035JA1	1.5	.56
				15A8025	225X0035JA1	2.2	.56
				15A8026	335X0035JA1	3.3	.56
				15A8027	475X0035JA1	4.7	.56
				15A8028	685X0035KA1	6.8	.64



TYPE 192P PACER FILMITE "E" CAPACITORS

Controlled dimensions permit use of automatic insertion equipment for installing Pacer Capacitors on Printed Wiring Boards. With ultra-thin Polyester Film Dielectric and thin gauge foil. Orange heat shrinkable Mylar sleeve. Rated for operation from -55° C. to +85° C.

80 VOLTS DC

Stock No.	Mfg. No.	Mfd.	Size	1-24	25-49	50-99	100-249	250-499	500
15A2339	192P2229R8	.0022	1/4 X 1/2	\$0.39	\$0.28	\$0.22	\$0.175	\$0.163	\$0.150
15A2340	192P2729R8	.0027	1/4 X 1/2	.39	.28	.22	.175	.163	.150
15A2341	192P3229R8	.0033	1/4 X 1/2	.39	.28	.22	.175	.163	.150
15A2342	192P3729R8	.0039	1/4 X 1/2	.39	.28	.22	.175	.163	.150
15A2343	192P4229R8	.0047	1/4 X 1/2	.39	.28	.22	.175	.163	.150
15A2344	192P4729R8	.0056	1/4 X 1/2	.39	.28	.22	.175	.163	.150
15A2345	192P5229R8	.0068	1/4 X 1/2	.39	.28	.22	.175	.163	.150
15A2346	192P5729R8	.0082	1/4 X 1/2	.39	.28	.22	.175	.163	.150
15A2347	192P6229R8	.01	1/4 X 1/2	.36	.27	.21	.165	.153	.142
15A2348	192P6729R8	.012	1/4 X 1/2	.39	.28	.22	.176	.164	.151
15A2349	192P7229R8	.015	1/4 X 1/2	.42	.30	.24	.189	.176	.162
15A2350	192P7729R8	.018	1/4 X 1/2	.42	.31	.24	.192	.178	.164
15A2351	192P8229R8	.022	1/4 X 1/2	.42	.31	.24	.195	.181	.167
15A2352	192P8729R8	.027	1/4 X 1/2	.45	.32	.25	.197	.183	.169
15A2353	192P9229R8	.033	1/4 X 1/2	.45	.32	.25	.20	.186	.172
15A2354	192P9729R8	.039	1/4 X 1/2	.45	.33	.26	.204	.190	.175
15A2355	192P10229R8	.047	1/4 X 1/2	.45	.34	.26	.210	.195	.180
15A2356	192P10729R8	.056	1/4 X 1/2	.48	.35	.27	.217	.202	.186
15A2357	192P11229R8	.068	1/4 X 1/2	.51	.37	.28	.227	.211	.194
15A2358	192P11729R8	.082	1/4 X 1/2	.51	.38	.30	.237	.220	.203
15A2359	192P12229R8	.1	1/4 X 1/2	.54	.39	.30	.242	.225	.208
15A2360	192P12729R8	.12	1/4 X 1/2	.63	.46	.36	.287	.267	.246
15A2361	192P13229R8	.15	1/4 X 1/2	.66	.49	.38	.307	.285	.263
15A2362	192P13729R8	.18	1/4 X 1/2	.75	.55	.42	.339	.315	.290
15A2363	192P14229R8	.22	1/4 X 1/2	.81	.60	.47	.372	.346	.319
15A2364	192P14729R8	.27	1/4 X 1/2	.87	.64	.50	.398	.369	.341
15A2365	192P15229R8	.33	1/4 X 1/2	.90	.68	.53	.420	.390	.360
15A2366	192P15729R8	.39	1/4 X 1/2	.96	.72	.56	.445	.413	.382
15A2367	192P16229R8	.47	1/4 X 1/2	1.02	.75	.59	.469	.436	.402

Stock No.	Mfg. No.	Mfd.	Size	1-24	25-49	50-99	100-249	250-499	500
15A2373	192P12292	.0012	1/4 X 1/2	\$0.27	\$0.19	\$0.15	\$0.119	\$0.111	\$0.102
15A2374	192P15292	.0015	1/4 X 1/2	.27	.19	.15	.120	.112	.103
15A2375	192P18292	.0018	1/4 X 1/2	.27	.19	.15	.120	.112	.103
15A2376	192P21292	.0022	1/4 X 1/2	.27	.20	.15	.122	.113	.104
15A2377	192P24292	.0027	1/4 X 1/2	.27	.20	.15	.122	.113	.104
15A2378	192P27292	.0033	1/4 X 1/2	.27	.20	.15	.122	.113	.104
15A2379	192P30292	.0039	1/4 X 1/2	.27	.20	.15	.123	.114	.106
15A2380	192P33292	.0047	1/4 X 1/2	.27	.20	.15	.125	.116	.107
15A2381	192P36292	.0056	1/4 X 1/2	.27	.20	.15	.126	.117	.108
15A2382	192P39292	.0068	1/4 X 1/2	.30	.21	.16	.127	.118	.109
15A2383	192P42292	.0082	1/4 X 1/2	.30	.21	.17	.133	.124	.114
15A2384	192P10392	.01	1/4 X 1/2	.30	.22	.17	.136	.126	.116
15A2385	192P12392	.012	1/4 X 1/2	.30	.22	.17	.139	.129	.119
15A2386	192P15392	.015	1/4 X 1/2	.30	.23	.18	.140	.130	.120
15A2387	192P18392	.018	1/4 X 1/2	.33	.23	.18	.143	.133	.122
15A2388	192P21392	.022	1/4 X 1/2	.33	.23	.18	.146	.135	.125
15A2389	192P24392	.027	1/4 X 1/2	.33	.25	.20	.154	.143	.132
15A2390	192P27392	.033	1/4 X 1/2	.36	.26	.20	.162	.151	.139
15A2391	192P30392	.039	1/4 X 1/2	.39	.27	.21	.169	.157	.145
15A2392	192P33392	.047	1/4 X 1/2	.39	.29	.22	.178	.165	.152
15A2393	192P36392	.056	1/4 X 1/2	.42	.30	.24	.188	.174	.161
15A2394	192P39392	.068	1/4 X 1/2	.42	.32	.25	.197	.183	.169
15A2395	192P42392	.082	1/4 X 1/2	.45	.33	.26	.207	.192	.178
15A2396	192P10492	.01	1/4 X 1/2	.48	.35	.27	.217	.202	.186
15A2397	192P12492	.012	1/4 X 1/2	.51	.37	.28	.227	.211	.194
15A2398	192P15492	.015	1/4 X 1/2	.57	.42	.32	.259	.241	.222
15A2399	192P18492	.018	1/4 X 1/2	.57	.44	.34	.274	.255	.235
15A2400	192P21492	.022	1/4 X 1/2	.63	.47	.36	.291	.270	.250

Stock No.	Mfg. No.	Mfd.	Size	1-24	25-49	50-99	100-249	250-499	500
15A2401	192P10294	.001	1/4 X 1/2	.33	.25	.19	.154	.143	.132
15A2402	192P15294	.0015	1/4 X 1/2	.36	.25	.19	.154	.143	.132
15A2403	192P20294	.0022	1/4 X 1/2	.36	.25	.20	.157	.146	.134
15A2404	192P25294	.0033	1/4 X 1/2	.36	.25	.20	.157	.146	.134
15A2405	192P30294	.0047	1/4 X 1/2	.36	.25	.20	.158	.147	.136
15A2406	192P35294	.0068	1/4 X 1/2	.36	.25	.20	.160	.148	.137
15A2407	192P40294	.0082	1/4 X 1/2	.39	.29	.22	.178	.165	.152
15A2408	192P45294	.012	1/4 X 1/2	.42	.31	.24	.195	.181	.167
15A2409	192P50								

SPRAGUE CAPACITORS

TYPE 36D "POWERLYTIC" ELECTROLYTICS

Maximum capacitance in a given case size for space economy. Extremely long shelf life. Uses most reliable seal developed by Sprague with presure type silicone rubber safety vents. Low $\frac{1}{32}$ " screw insert terminal. Plastic outer tube.



Size Code: AA—1 1/4" Dia. X 2 1/2" L.; AB—1 3/4" Dia. X 3 1/2" L.; AC—1 3/4" Dia. X 4 1/4" L.; BB—2" Dia. X 3 3/4" L.; BC—2" Dia. X 4 1/4" L.; CC—2 1/2" Dia. X 4 1/4" L.; CD—2 1/2" Dia. X 4 3/4" L.; DC—3" Dia. X 4 1/4" L.; DD—3" Dia. X 4 3/4" L.; DF—3" Dia. X 5 1/4" L.

Stock No.	Manufacturers Number	uf	WV	Case Code	1-24	25-49	50-99	100-249	250
15A5484	36D462G015AA2A	4,600	15	AA	\$2.30	\$1.84	\$1.61	\$1.24	\$1.01
15A5485	36D133G015AC2A	13,000	15	AC	3.23	2.58	2.26	1.74	1.42
15A5486	36D313G015BC2A	31,000	15	BC	5.28	4.22	3.69	2.85	2.32
15A5487	36D543G015CC2A	54,000	15	CC	7.70	6.16	5.39	4.16	3.39
15A5488	36D272G025AA2A	2,700	25	AA	2.30	1.84	1.61	1.24	1.01
15A5489	36D552G025AB2A	5,500	25	AB	2.78	2.22	1.94	1.50	1.22
15A5490	36D822G025AC2A	8,200	25	AC	3.23	2.58	2.26	1.74	1.42
15A5491	36D323G025AD2A	32,000	25	CC	7.70	6.16	5.39	4.16	3.39
15A5492	36D553G025DD2A	55,000	25	DD	11.50	9.20	8.05	6.21	5.06
15A5493	36D132G050AA2A	1,300	50	AA	2.30	1.84	1.61	1.24	1.01
15A5494	36D262G050AB2A	2,600	50	AB	2.78	2.22	1.94	1.50	1.22
15A5495	36D392G050AC2A	3,900	50	AC	3.23	2.58	2.26	1.74	1.42
15A5496	36D602G050BB2A	6,000	50	BB	4.28	3.42	2.99	2.31	1.88
15A5497	36D902G050BC2A	9,000	50	BC	5.28	4.22	3.69	2.85	2.32
15A5498	36D153G050CC2A	15,000	50	CC	7.70	6.16	5.39	4.16	3.39
15A5499	36D236G050DC2A	22,000	50	DC	10.25	8.20	7.18	5.54	4.51
15A5500	36D252G075AC2A	2,500	75	AC	3.23	2.58	2.26	1.74	1.42
15A5501	36D392G075BB2A	3,900	75	BB	4.28	3.42	2.99	2.31	1.88
15A5502	36D592G075BC2A	5,900	75	BC	5.28	4.22	3.69	2.85	2.32
15A5503	36D113G075CD2A	11,000	75	CD	8.50	6.80	5.95	4.59	3.74
15A5504	36D143G075DC2A	14,000	75	DC	10.25	8.20	7.18	5.54	4.51
15A5505	36D236G075DF2A	22,000	75	DF	14.08	11.26	9.85	7.60	6.19
15A5506	36D782F150DF2A	7,800	150	DF	14.08	11.26	9.85	7.60	6.19
15A5507	36D901F150AC2A	900	150	AC	3.23	2.58	2.26	1.74	1.42
15A5508	36D212F150BC2A	2,100	150	BC	5.28	4.22	3.69	2.85	2.32
15A5509	36D362F150CC2A	3,600	150	CC	7.70	6.16	5.39	4.16	3.39
15A5510	36D122F250BC2A	1,200	250	BC	5.28	4.22	3.69	2.85	2.32
15A5511	36D452F250DF2A	4,500	250	DF	14.08	11.26	9.85	7.60	6.19
15A5512	36D950F350AA2A	95	350	AA	2.30	1.84	1.61	1.24	1.01
15A5513	36D421F350BB2A	420	350	BB	4.28	3.42	2.99	2.31	1.88
15A5514	36D112F350CC2A	1,100	350	CC	7.70	6.16	5.39	4.16	3.39
15A5515	36D252F350DF2A	2,500	350	DF	14.08	11.26	9.85	7.60	6.19
15A5516	36D331F450BC2A	330	450	BC	5.28	4.22	3.69	2.85	2.32
15A5517	36D861F450DC2A	860	450	DC	10.25	8.20	7.18	5.54	4.51

VERTICAL MOUNTING CLAMPS

Stk. No.	Type	Diameter	1-24 Ea.	25-49 Ea.	50-99 Ea.	100 Up Ea.
15A5518	CMC 22	1 1/2"	\$0.21	\$0.19	\$0.18	\$0.16
15A5519	CMC 32	2"	.36	.32	.30	.27
15A5520	CMC 40	2 1/2"	.36	.32	.30	.27
15A5521	CMC 48	3"	.42	.38	.35	.32

TYPE 600D EXTRALYTIC ALUMINUM ELECTROLYTIC CAPACITORS

Extended operating temperature range from -55 C to +125 C. Dual rating makes possible operation at either 85 C or 125 C. Improved Oxide systems, etching techniques, and end seals; a New Electrolyte makes the Type 600D equivalent to or better than comparable foil Tantalum Capacitors. Lower cost and one third the weight of comparable foil Tantalums.



Size Code: KD—296" Dia. X 1.000" L.; DD—390" Dia. X 1.000" L.; DE—390" Dia. X 1.187" L.; DG—390" Dia. X 1.437" L.; DJ—390" Dia. X 1.687" L.; DL—390" Dia. X 2.249" L.

Stock No.	Mfg. No.	uf	15 WVDC @ 85C DR 10 WVDC @ 125C		50-99	100-499	500		
			Case Code	Each					
15A5463	600D157G015DD4	150	DD	\$3.06	\$2.29	\$1.535	\$1.337	\$0.967	\$0.885
15A5464	600D567G015DL4	560	DL	6.58	4.93	3.295	2.877	2.064	1.892
15A5465	600D107G020DD4	100	DD	3.06	2.29	1.535	1.337	.962	.885
15A5466	600D227G020DG4	220	DG	5.98	4.48	2.995	2.617	1.874	1.722
15A5467	600D447G020DL4	440	DL	6.58	4.93	3.295	2.877	2.064	1.892
15A5468	600D476G030KD4	47	KD	3.06	2.29	1.535	1.337	.962	.885
15A5469	600D107G030DD4	100	DD	3.98	2.98	1.995	1.747	1.254	1.152
15A5470	600D306G040KD4	30	KD	3.06	2.29	1.535	1.337	.962	.885
15A5471	600D107G040DG4	100	DG	5.98	4.48	2.995	2.617	1.874	1.722
15A5472	600D217G040DL4	210	DL	6.58	4.93	3.295	2.877	2.064	1.892
15A5473	600D226G050KD4	22	KD	3.06	2.29	1.535	1.337	.962	.885
15A5474	600D476G050DE4	47	DE	3.98	2.98	1.995	1.747	1.254	1.152
15A5475	600D107G050DJ4	100	DJ	6.14	4.60	3.075	2.687	1.924	1.772
15A5476	600D157G050DL4	150	DL	6.58	4.93	3.295	2.877	2.064	1.892
15A5477	600D226F075DD4	22	DD	3.06	2.29	1.535	1.337	.962	.885
15A5478	600D476F075DG4	47	DG	5.98	4.48	2.995	2.617	1.874	1.722
15A5479	600D107F075DL4	100	DL	6.58	4.93	3.295	2.877	2.064	1.892
15A5480	600D405F200KD4	4	KD	3.06	2.29	1.535	1.337	.962	.885
15A5481	600D605F200DD4	6	DD	3.06	2.29	1.535	1.337	.962	.885
15A5482	600D805F200DE4	8	DE	3.98	2.98	1.995	1.747	1.254	1.152
15A5483	600D176F200DL4	17	DL	6.14	4.60	3.075	2.687	1.924	1.772

PHOTOFLASH ELECTROLYTIC

Ultra-low leakage for either dry battery or AC operated power supplies eliminate rectifier burnouts. Weighs only 11 ozs. Highly stable film formation assures long life. 525 uf. 450 WVDC, 53 watt-seconds. 2 1/2" dia. X 4 1/4" long.



Type	25-49	50 Up
FF-1	Each \$13.50	Each \$12.15
		Each \$11.25

B-A IS YOUR SOURCE FOR ALL SPRAGUE ENERGY STORAGE CAPACITORS FOR PHOTOFLASH AND LASER APPLICATIONS.

TYPE 39D "POWERLYTIC" ELECTROLYTIC CAPACITORS

High capacitance units in axial-lead tubular configuration. Furnished with outer insulating sleeve. Operating temperature range, -55 C to +85 C.



Stock No.	Mfg. No.	uf	10 WVDC, 12 VDC SURGE		1-24	25-49	50-99	100
			Size Dia.	Length				
15A5522	39D108G010FJ4	1000	.687	X 1.750	\$1.71	\$1.00	\$0.77	\$0.684
15A5523	39D258G010GL4	2500	.812	X 2.250	1.95	1.14	.88	.784
15A5524	39D508G010HP4	5000	.937	X 2.750	2.40	1.41	1.08	.964
15A5525	39D128G015FL4	1200	.687	X 2.250	1.83	1.07	.83	.734
15A5526	39D258G015GP4	2500	.812	X 2.750	2.01	1.18	.91	.804
15A5527	39D408G015JL4	4000	1.062	X 2.250	2.55	1.49	1.15	1.024
15A5528	39D808G015JT4	8000	1.062	X 3.750	3.15	1.84	1.42	1.254
15A5529	39D107G025EE4	100	.562	X 1.250	1.59	.93	.72	.634
15A5530	39D207G025EJ4	200	.562	X 1.750	1.62	.95	.73	.644
15A5531	39D507G025HE4	500	.937	X 1.250	1.83	1.07	.83	.734
15A5532	39D108G025GL4	1000	.812	X 2.250	1.95	1.14	.88	.784
15A5533	39D228G025HP4	2200	.937	X 2.750	2.40	1.41	1.08	.964
15A5534	39D408G025JS4	4000	1.062	X 3.250	2.91	1.70	1.31	1.164
15A5535	39D257G030EL4	250	.562	X 2.250	1.67	.98	.75	.664
15A5536	39D507G030FL4	500	.687	X 2.250	1.83	1.07	.83	.734
15A5537	39D118G030GP4	1100	.812	X 2.750	2.01	1.18	.91	.804
15A5538	39D308G030JS4	3000	1.062	X 3.250	2.91	1.70	1.31	1.164
15A5539	39D506G050EE4	50	.562	X 1.250	1.59	.93	.72	.634
15A5540	39D107G050EJ4	100	.562	X 1.750	1.62	.95	.73	.644
15A5541	39D257G050HE4	250	.937	X 1.250	1.83	1.07	.83	.734
15A5542	39D507G050HL4	500	.812	X 2.250	1.95	1.14	.88	.784
15A5543	39D118G050HP4	1100	.937	X 2.750	2.40	1.41	1.08	.964
15A5544	39D238G050JT4	2300	1.062	X 3.750	3.15	1.84	1.42	1.254
15A5545	39D257G075JE4	250	1.062	X 1.250	1.89	1.11	.85	.754
15A5546	39D507G075HL4	500	.937	X 2.250	2.37	1.39	1.07	.944
15A5547	39D256F150EJ4	25	.562	X 1.750	1.62	.95	.73	.644
15A5548	39D506F150FJ4	50	.687	X 1.750	1.71	1.00	.77	.684
15A5549	39D107F150FP4	100	.687	X 2.750	1.95	1.14	.88	.784
15A5550	39D257F150HP4	250	.937	X 2.750	2.40	1.41	1.08	.964
15A5551	39D537F150JT4	530	1.062	X 3.750	3.15	1.84	1.42	1.254
15A5552	39D206F250EL4	20	.562	X 2.250	1.67	.98	.75	.664
15A5553	39D107F250HL4	100	.937	X 2.250	2.37	1.39	1.07	.944
15A5554	39D207F250JP4	200	1.062	X 2.750	2.58	1.51	1.16	1.034
15A5555	39D307F2							

SPRAGUE CAPACITORS

TE LITTL-LYTIC ELECTROLYTICS

Ultra-small, dependable all welded construction for transistorized and miniature assemblies. Withstands temperatures to 85° C. Low leakage current, long shelf life. With clear plastic insulating sleeves.

Size Code: BA—.260 X .536"; BB—.260 X .723"; CB—.322 X .723"; CC—.322 X .848"; DC—.385 X .848"; DD—.385 X .973"; DF—.385 X 1.286"; DH—.385 X 1.536".

Stk. No.	Mfg. No.	uf	WVDC	Size	1-24	25-49	50-99	100-249	250-499	500 Up
15A5274	TE-1052.2	5	3	BA	\$0.57	\$0.39	\$0.31	\$0.233	\$0.194	\$0.171
15A5275	TE-1053	10	3	BA	.57	.39	.31	.233	.194	.171
15A5276	TE-1055	25	3	BA	.57	.39	.31	.233	.194	.171
15A5277	TE-1058	50	3	BB	.57	.39	.31	.233	.194	.171
15A5278	TE-1059.5	100	3	CB	.63	.44	.35	.263	.219	.193
15A5279	TE-1061	150	3	CC	.81	.55	.44	.33	.275	.242
15A5280	TE-1064	200	3	CC	.81	.55	.44	.33	.275	.242
15A5281	TE-1065	250	3	CC	.84	.58	.46	.345	.288	.253
15A5282	TE-1068	500	3	DF	.90	.63	.50	.375	.313	.275
15A5283	TE-1070.1	800	3	DH	.96	.65	.52	.39	.325	.286
15A5284	TE-1080	1	6	BA	.57	.39	.31	.233	.194	.171
15A5285	TE-1081	2	6	BA	.57	.39	.31	.233	.194	.171
15A5286	TE-1084	5	6	BA	.57	.39	.31	.233	.194	.171
15A5287	TE-1087	10	6	BA	.57	.39	.31	.233	.194	.171
15A5288	TE-1090	20	6	BA	.57	.39	.31	.233	.194	.171
15A5289	TE-1091	25	6	BB	.57	.39	.31	.233	.194	.171
15A5290	TE-1093	35	6	BB	.57	.39	.31	.233	.194	.171
15A5291	TE-1100	50	6	BB	.57	.39	.31	.233	.194	.171
15A5292	TE-1101.5	75	6	CB	.63	.44	.35	.263	.219	.193
15A5293	TE-1102	100	6	CC	.81	.55	.44	.33	.275	.242
15A5334	TE-1104	200	6	DC	.84	.58	.46	.345	.288	.253
15A5335	TE-1105	250	6	DD	.87	.60	.48	.36	.30	.264
15A5336	TE-1106	300	6	DF	.87	.60	.48	.36	.30	.264
15A5337	TE-1107.5	500	6	DH	.96	.65	.52	.39	.325	.286
15A5338	TE-1120	1	12	BA	.57	.39	.31	.233	.194	.171
15A5339	TE-1121	2	12	BA	.57	.39	.31	.233	.194	.171
15A5340	TE-1122	3	12	BA	.57	.39	.31	.233	.194	.171
15A5341	TE-1127	5	12	BA	.57	.39	.31	.233	.194	.171
15A5342	TE-1128	10	12	BA	.57	.39	.31	.233	.194	.171
15A5343	TE-1129	15	12	BA	.57	.39	.31	.233	.194	.171
15A5344	TE-1131	25	12	BB	.57	.39	.31	.233	.194	.171
15A5345	TE-1133	50	12	CB	.63	.44	.35	.263	.219	.193
15A5346	TE-1135	100	12	CC	.84	.58	.46	.345	.288	.253
15A5347	TE-1137	200	12	DF	.90	.63	.50	.375	.313	.275
15A5348	TE-1138	250	12	DF	.90	.63	.50	.375	.313	.275
15A5349	TE-1139	290	12	DF	.90	.63	.50	.375	.313	.275
15A5350	TE-1140	390	12	DH	.96	.65	.52	.39	.325	.286
15A5351	TE-1148	1	16	BA	.57	.39	.31	.233	.194	.171
15A5352	TE-1149	2	16	BA	.57	.39	.31	.233	.194	.171
15A5353	TE-1150	3	16	BA	.57	.39	.31	.233	.194	.171
15A5294	TE-1152	5	16	BA	.57	.39	.31	.233	.194	.171
15A5295	TE-1155	10	16	BA	.57	.39	.31	.233	.194	.171

TYPE 500D METAL CASE ALUMINUM ELECTROLYTICS

Economy line. "Made in America" quality. Temperature range -20°C to +85°C. With plastic insulating sleeves. Size shown in table for TE Littl-Lytic.

Stk. No.	Mfg. No.	uf	WVDC	Size	1-24	25-49	50-99	100-249	250-499	500 Up
15A5417	500D506G003BB7	200	3	BB	\$0.48	\$0.33	\$0.27	\$0.198	\$0.165	\$0.146
15A5418	500D207G003CC7	500	3	CC	.54	.38	.30	.225	.188	.165
15A5419	500D507G003DF7	500	3	DF	.69	.47	.37	.279	.233	.205
15A5420	500D106G006BA7	10	6	BA	.48	.33	.27	.198	.165	.146
15A5421	500D107G006CC7	100	6	CC	.57	.39	.31	.234	.195	.172
15A5422	500D607G006DH7	600	6	DH	.78	.53	.42	.315	.263	.231
15A5423	500D106G012BA7	10	12	BA	.48	.33	.27	.198	.165	.146
15A5424	500D506G012CB7	50	12	CB	.54	.38	.30	.225	.188	.165
15A5425	500D107G012CC7	100	12	CC	.54	.38	.30	.225	.188	.165
15A5426	500D257G012DF7	250	12	DF	.69	.47	.37	.279	.233	.205
15A5427	500D105G016BA7	1	16	BA	.48	.32	.25	.189	.158	.139
15A5428	500D505G016BA7	5	16	BA	.45	.30	.24	.18	.15	.132
15A5429	500D106G016BA7	10	16	BA	.48	.32	.25	.189	.158	.139
15A5430	500D206G016BB7	20	16	BB	.48	.33	.27	.198	.165	.146
15A5431	500D256G016BB7	25	16	BB	.54	.36	.29	.216	.18	.159
15A5432	500D506G016CB7	50	16	CB	.54	.36	.29	.216	.18	.159
15A5433	500D107G016DC7	100	16	DC	.57	.39	.31	.234	.195	.172
15A5434	500D207G016DF7	200	16	DF	.66	.45	.36	.27	.225	.198
15A5435	500D105G025BA7	1	25	BA	.48	.32	.25	.189	.158	.139
15A5436	500D205G025BA7	2	25	BA	.45	.30	.24	.18	.15	.132
15A5437	500D505G025BA7	5	25	BA	.48	.33	.27	.198	.165	.146

SPRAGUE "ATOM" ELECTROLYTICS

Dependable tubulars designed for 185° F operation. Will withstand high temperatures, ripple, and surge currents. Hermetic aluminum can with heat shrinkable plastic sleeve.

Stk. No.	Mfg. No.	uf	WVDC	Dia. X L.	1-24	25-49	50-99	100-249	250 Up
15A5396	TVA-1161	250	15	1/2 X 1 1/2	\$0.93	\$0.74	\$0.65	\$0.489	\$0.408
15A5397	TVA-1162	500	15	1/2 X 1 1/2	1.05	.83	.73	.548	.456
15A5398	TVA-1163	1000	15	1/2 X 1 1/2	1.38	1.09	.95	.713	.594
15A5399	TVA-1204	10	25	1/2 X 1 1/2	.60	.47	.38	.281	.234
15A5400	TVA-1205	25	25	1/2 X 1 1/2	.60	.46	.39	.293	.244
15A5401	TVA-1206	50	25	1/2 X 1 1/2	.66	.52	.42	.312	.26
15A5402	TVA-1207	100	25	1/2 X 1 1/2	.81	.64	.51	.381	.318
15A5403	TVA-1208	250	25	1/2 X 1 1/2	1.02	.80	.70	.524	.436
15A5404	TVA-1209	500	25	1/2 X 1 1/2	1.38	1.09	.95	.713	.594
15A5405	TVA-1211	1000	25	1/2 X 2 1/2	2.37	1.39	.95	.87	.79
15A5406	TVA-1301	2	50	1/2 X 2 1/2	.54	.43	.35	.26	.216
15A5407	TVA-1303	5	50	1/2 X 2 1/2	.60	.46	.37	.275	.229
15A5408	TVA-1304	10	50	1/2 X 2 1/2	.60	.47	.38	.281	.234
15A5409	TVA-1306	25	50	1/2 X 2 1/2	.63	.49	.39	.293	.244
15A5410	TVA-1308	50	50	1/2 X 2 1/2	.72	.57	.46	.342	.285
15A5411	TVA-1310	100	50	1/2 X 2 1/2	.84	.66	.53	.396	.33
15A5412	TVA-1311	150	50	1/2 X 2 1/2	.93	.73	.58	.437	.364
15A5413	TVA-1312	250	50	1/2 X 2 1/2	1.05	.83	.73	.549	.458
15A5414	TVA-1315	500	50	1 X 1 1/2	1.44	1.13	.99	.738	.615
15A5415	TVA-1402	4	150	1/2 X 2 1/2	.60	.47	.38	.282	.235
15A5416	TVA-1403	5	150	1/2 X 2 1/2	.60	.48	.38	.285	.238
15A5379	TVA-1406	10	150	1/2 X 2 1/2	.63	.48	.41	.305	.254
15A5380	TVA-1410	20	150	1/2 X 2 1/2	.72	.56	.45	.333	.278

Stk. No.	Mfg. No.	uf	WVDC	Size	1-24	25-49	50-99	100-249	250-499	500 Up
15A5296	TE-1156	15	16	BB	\$0.57	\$0.39	\$0.31	\$0.233	\$0.194	\$0.171
15A5297	TE-1157	20	16	BB	.57	.39	.31	.233	.194	.171
15A5298	TE-1157.1	25	16	BB	.57	.39	.31	.233	.194	.171
15A5299	TE-1158	30	16	CB	.63	.44	.35	.263	.219	.193
15A5300	TE-1160	50	16	CB	.63	.44	.35	.263	.219	.193
15A5301	TE-1162	100	16	DC	.84	.58	.46	.345	.288	.253
15A5302	TE-1163	150	16	DD	.87	.60	.48	.36	.30	.264
15A5303	TE-1164	200	16	DF	.90	.63	.50	.375	.313	.275
15A5304	TE-1164.5	250	16	DF	.90	.63	.50	.375	.313	.275
15A5305	TE-1165.5	300	16	DH	.96	.65	.52	.39	.325	.286
15A5306	TE-1166	350	16	DH	.96	.65	.52	.39	.325	.286
15A5307	TE-1200	1	25	BA	.57	.39	.31	.233	.194	.171
15A5308	TE-1201	2	25	BA	.57	.39	.31	.233	.194	.171
15A5309	TE-1201.1	3	25	BA	.57	.39	.31	.233	.194	.171
15A5310	TE-1202	5	25	BA	.57	.39	.31	.233	.194	.171
15A5311	TE-1204	10	25	BB	.57	.39	.31	.233	.194	.171
15A5312	TE-1205	15	25	BB	.57	.39	.31	.233	.194	.171
15A5313	TE-1206	20	25	CB	.63	.44	.35	.263	.219	.193
15A5314	TE-1207	25	25	CB	.63	.44	.35	.263	.219	.193
15A5315	TE-1208	35	25	CB	.63	.44	.35	.263	.219	.193
15A5316	TE-1209	50	25	CC	.81	.55	.44	.33	.275	.242
15A5317	TE-1211	100	25	DD	.87	.60	.48	.36	.30	.264
15A5318	TE-1212	150	25	DF	.90	.63	.50	.375	.313	.275
15A5319	TE-1213	200	25	DH	.96	.65	.52	.39	.325	.286
15A5320	TE-1300	1	50	BA	.57	.39	.31	.233	.194	.171
15A5321	TE-1301	2	50	BA	.57	.39	.31	.233	.194	.171
15A5322	TE-1302	3	50	BA	.57	.39	.31	.233	.194	.171
15A5323	TE-1303	5	50	BB	.57	.39	.31	.233	.194	.171
15A5324	TE-1304	10	50	CB	.63	.44	.35	.263	.219	.193
15A5325	TE-1305	20	50	CC	.81	.55	.44	.33	.275	.242
15A5326	TE-1305.5	25	50	CC	.81	.55	.44	.33	.275	.242
15A5327	TE-1306	35	50	DC	.84	.58				

SPRAGUE CAPACITORS

TYPE 225P FILMITE "E" CAPACITORS



Wound from Polyester film and thin gauge foil. Radial leads facilitate insertion on Printed Circuit boards. Tolerance $\pm 10\%$. Epoxy coated for moisture protection.

Stock No.	Mfg. No.	uf	Size H. T. L.	1-24 Each	25-49 Each	50-99 Each	100-249	250-499	500 Up Ea.
100 VOLTS DC									
15A2292	225P10291WD3	.001	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	\$0.18	\$0.13	\$0.10	\$0.077	\$0.063	\$0.061
15A2293	225P12291WD3	.0012	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2294	225P15291WD3	.0015	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2295	225P18291WD3	.0018	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2296	225P22291WD3	.0022	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2297	225P27291WD3	.0027	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2298	225P33291WD3	.0033	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2299	225P39291WD3	.0039	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2300	225P47291WD3	.0047	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2301	225P56291WD3	.0056	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2302	225P68291WD3	.0068	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2303	225P82291WD3	.0082	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2304	225P10391WD3	.01	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2305	225P12391WD3	.012	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2306	225P15391WD3	.015	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2307	225P18391WD3	.018	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.082	.067	.064
15A2308	225P22391WD3	.022	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.082	.067	.064
15A2309	225P27391WD3	.027	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.21	.14	.11	.088	.072	.069
15A2310	225P33391WD3	.033	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.21	.14	.11	.088	.072	.069
15A2311	225P39391WD3	.039	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.21	.15	.12	.095	.078	.075
15A2312	225P47391WD3	.047	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.21	.15	.12	.095	.078	.075
15A2313	225P56391WD3	.056	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.24	.17	.13	.105	.086	.082
15A2314	225P68391WD3	.068	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.24	.17	.13	.105	.086	.082
15A2315	225P82391WD3	.082	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.24	.18	.14	.111	.091	.087
15A2316	225P10491WD3	.1	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.24	.18	.14	.111	.091	.087
15A2571	225P12491XD3	.12	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.27	.20	.16	.123	.101	.097

Stock No.	Mfg. No.	uf	Size H. T. L.	1-24 Each	25-49 Each	50-99 Each	100-249	250-499	500 Up Ea.
200 VOLTS DC									
15A2321	225P10292XD3	.001	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2322	225P15292XD3	.0015	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2323	225P22292XD3	.0022	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2324	225P33292XD3	.0033	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2325	225P47292XD3	.0047	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2326	225P68292XD3	.0068	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2327	225P10392XD3	.01	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2328	225P15392XD3	.015	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.077	.063	.061
15A2329	225P22392XD3	.022	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.18	.13	.10	.082	.067	.064
15A2330	225P33392XD3	.033	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.21	.14	.11	.088	.072	.069
15A2331	225P47392XD3	.047	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.21	.15	.12	.095	.078	.075
15A2332	225P68392XD3	.068	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.24	.17	.13	.105	.086	.082
15A2333	225P10492XD3	.1	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.24	.18	.14	.111	.091	.087
15A2334	225P15492XD3	.15	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.27	.20	.16	.123	.101	.097
15A2335	225P22492XD3	.22	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.33	.23	.18	.143	.118	.113
15A2336	225P33492YD3	.33	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.39	.29	.22	.179	.147	.140
15A2337	225P47492YD3	.47	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.54	.40	.31	.246	.202	.194
15A2338	225P68492YD3	.68	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	.75	.56	.43	.347	.285	.272

ORANGE DROP DIFILM DIPPED TUBULARS



Dual dielectric (Polyester film and paper) solidly impregnated to produce rock-hard capacitor section. Double dipped in bright orange Epoxy Resin—beats heat and humidity. Won't leak or drip. Tolerance $\pm 10\%$.

Stock No.	Mfg. No.	uf	Size D. L.	1-24 Each	25-49 Each	50-99 Each	100-249	250-499	500 Up Ea.
200 VOLTS DC									
15A2513	2PS-S20	.02	$\frac{1}{2} \times \frac{1}{2}$	\$0.21	\$0.14	\$0.11	\$0.09	\$0.072	\$0.069
15A2514	2PS-S22	.022	$\frac{1}{2} \times \frac{1}{2}$	.21	.14	.11	.09	.072	.069
15A2515	2PS-S47	.047	$\frac{1}{2} \times \frac{1}{2}$	.21	.15	.12	.10	.078	.075
15A2516	2PS-S50	.05	$\frac{1}{2} \times \frac{1}{2}$	.21	.15	.12	.10	.078	.075
15A2517	2PS-P10	.1	$\frac{1}{2} \times \frac{1}{2}$	.24	.18	.14	.11	.091	.087
15A2518	2PS-P15	.15	$\frac{1}{2} \times \frac{1}{2}$	.33	.23	.18	.14	.118	.113
15A2519	2PS-P20	.2	$\frac{1}{2} \times \frac{1}{2}$	.39	.29	.22	.18	.145	.139
15A2520	2PS-P22	.22	$\frac{1}{2} \times \frac{1}{2}$	.39	.29	.22	.18	.145	.139
15A2521	2PS-P25	.25	$\frac{1}{2} \times \frac{1}{2}$	.54	.40	.31	.25	.202	.194
15A2522	2PS-P33	.33	$\frac{1}{2} \times \frac{1}{2}$	.54	.40	.31	.25	.202	.194
15A2523	2PS-P47	.47	$\frac{1}{2} \times \frac{1}{2}$	.72	.53	.41	.33	.271	.259
15A2524	2PS-P50	.5	$\frac{1}{2} \times \frac{1}{2}$	.72	.53	.41	.33	.271	.259
400 VOLTS DC									
15A2525	4PS-S10	.01	$\frac{1}{2} \times \frac{1}{2}$	.18	.12	.10	.077	.063	.061
15A2526	4PS-S15	.015	$\frac{1}{2} \times \frac{1}{2}$	.21	.14	.11	.088	.072	.069
15A2527	4PS-S20	.02	$\frac{1}{2} \times \frac{1}{2}$	.21	.15	.12	.095	.078	.075
15A2528	4PS-S22	.022	$\frac{1}{2} \times \frac{1}{2}$	.21	.15	.12	.095	.078	.075
15A2529	4PS-S30	.03	$\frac{1}{2} \times \frac{1}{2}$	.24	.16	.13	.10	.082	.079
15A2530	4PS-S33	.033	$\frac{1}{2} \times \frac{1}{2}$	.24	.16	.13	.10	.082	.079
15A2531	4PS-S47	.047	$\frac{1}{2} \times \frac{1}{2}$	.24	.16	.13	.10	.082	.079
15A2532	4PS-S50	.05	$\frac{1}{2} \times \frac{1}{2}$	.24	.16	.13	.10	.082	.079
15A2533	4PS-S68	.068	$\frac{1}{2} \times \frac{1}{2}$	.24	.18	.14	.111	.091	.087
15A2534	4PS-P10	.1	$\frac{1}{2} \times \frac{1}{2}$	.33	.23	.18	.143	.118	.113

Stock No.	Mfg. No.	uf	Size D. L.	1-24 Each	25-49 Each	50-99 Each	100-249	250-499	500 Up Ea.
600 VOLTS DC									
15A2537	6PS-D10	.001	$\frac{1}{2} \times \frac{1}{2}$	.18	.12	.09	.072	.059	.057
15A2538	6PS-D15	.0015	$\frac{1}{2} \times \frac{1}{2}$	.18	.12	.09	.072	.059	.057
15A2539	6PS-D20	.002	$\frac{1}{2} \times \frac{1}{2}$	.18	.12	.09	.072	.059	.057
15A2540	6PS-D22	.0022	$\frac{1}{2} \times \frac{1}{2}$	.18	.12	.09	.072	.059	.057
15A2541	6PS-D33	.0033	$\frac{1}{2} \times \frac{1}{2}$	.18	.12	.09	.072	.059	.057
15A2542	6PS-D39	.0039	$\frac{1}{2} \times \frac{1}{2}$	.18	.12	.09	.072	.059	.057
15A2543	6PS-D47	.0047	$\frac{1}{2} \times \frac{1}{2}$	.18	.12	.09	.072	.059	.057
15A2544	6PS-D50	.005	$\frac{1}{2} \times \frac{1}{2}$	.18	.12	.09	.072	.059	.057
15A2545	6PS-D68	.0068	$\frac{1}{2} \times \frac{1}{2}$	.18	.12	.09	.072	.059	.057
15A2546	6PS-D82	.0082	$\frac{1}{2} \times \frac{1}{2}$	.18	.12	.09	.072	.059	.057
15A2547	6PS-S10	.01	$\frac{1}{2} \times \frac{1}{2}$	.18	.12	.09	.072	.059	.057
15A2548	6PS-S15	.015	$\frac{1}{2} \times \frac{1}{2}$	.21	.14	.11	.088	.072	.069
15A2549	6PS-S20	.02	$\frac{1}{2} \times \frac{1}{2}$	.21	.15	.12	.095	.078	.075
15A2550	6PS-S22	.022	$\frac{1}{2} \times \frac{1}{2}$	.21	.15	.12	.095	.078	.075
15A2551	6PS-S27	.027	$\frac{1}{2} \times \frac{1}{2}$	.24	.16	.13	.10	.082	.079
15A2552	6PS-S33	.033	$\frac{1}{2} \times \frac{1}{2}$	.24	.16	.13	.10	.082	.079
15A2553	6PS-S39	.039	$\frac{1}{2} \times \frac{1}{2}$	.24	.18	.14	.111	.091	.087
15A2554	6PS-S47	.047	$\frac{1}{2} \times \frac{1}{2}$	.24	.18	.14	.111	.091	.087
15A2555	6PS-S50	.05	$\frac{1}{2} \times \frac{1}{2}$	.24	.18	.14	.111	.091	.087
15A2556	6PS-S68	.068	$\frac{1}{2} \times \frac{1}{2}$	.27	.20	.15	.123	.101	.097
15A2557	6PS-S82	.082	$\frac{1}{2} \times \frac{1}{2}$	.33	.23	.18	.143	.118	.113
15A2558	6PS-P10	.1	$\frac{1}{2} \times \frac{1}{2}$	.33	.23	.18	.143	.118	.113
15A2559	6PS-P15	.15	$\frac{1}{2} \times \frac{1}{2}$	.48	.35	.27	.217	.178	.171
15A2560	6PS-P22	.22	$\frac{1}{2} \times \frac{1}{2}$	.72	.53	.41	.33	.271	.259
15A2561	6PS-P25	.25	$\frac{1}{2} \times \frac{1}{2}$	.87	.64	.50	.40	.329	.315
15A2562	6PS-P								

CRL CAPACITORS



CENTRALAB CY MONO-KAP MINIATURE MONOLITHIC CERAMIC CAPACITORS

CY high capacitance small size epoxy coated with radial copper clad steel leads 1/4" long. General purpose types. Temperature/capacitance change +22%, -82% max. from +25° C. reading over temp range +10° to +85° C. Operating temp. -55° C. to +125° C. Tolerance ±20% except GMV. 100 to 400 quantity furnished in pkg of 100, 500 up in pkg. of 500.

Size Code:	10	16	20	30	40	50
Max. Length	100"	150"	200"	300"	400"	500"
Max. Width	100"	150"	200"	300"	400"	500"
Max. Thickness	100"	100"	125"	150"	200"	200"
Lead Spacing	100"	100"	100"	200"	200"	400"

50 WVDC

Stock No.	CY No.	Cap. uf	Size Code	1-49 Each	50-99	100 or 200	300 or 400	500	1000 Up
15A2605	10C102M	.001	10	\$0.54	\$0.40	\$0.32	\$0.27	\$0.23	\$0.18
15A2606	10C152M	.0015	10	.54	.40	.32	.27	.23	.18
15A2607	16C222M	.0022	15	.36	.26	.22	.18	.16	.12
15A2608	15C332M	.0033	15	.36	.26	.22	.18	.16	.12
15A2609	15C472M	.0047	15	.39	.29	.23	.20	.17	.13
15A2610	15C682M	.0068	15	.39	.29	.23	.20	.17	.13
15A2611	15C103M	.01	15	.36	.26	.22	.18	.16	.12
15A2612	15C103P	.01	15	.27	.20	.16	.14	.12	.09
15A2613	20C153M	.015	20	.60	.44	.36	.30	.26	.20
15A2614	20C223M	.022	20	.60	.44	.36	.30	.26	.20
15A2615	20C333M	.033	20	.60	.44	.36	.30	.26	.20
15A2616	20C473M	.047	20	.60	.44	.36	.30	.26	.20
15A2617	20C683M	.068	20	.63	.46	.37	.31	.27	.21
15A2618	20C104M	.1	20	.63	.46	.37	.31	.27	.21
15A2619	20C104P	.1	20	.45	.33	.27	.22	.19	.15
15A2620	20C154M	.15	20	.72	.52	.43	.36	.31	.24
15A2621	30C224M	.22	30	1.44	1.05	.86	.72	.62	.48
15A2622	30C334M	.33	30	1.56	1.14	.93	.78	.67	.52
15A2623	30C474M	.47	30	1.56	1.14	.93	.78	.67	.52
15A2624	30C684M	.68	30	1.86	1.36	1.11	.93	.80	.62
15A2625	30C105M	.1	30	1.86	1.36	1.11	.93	.80	.62
15A2626	30C105P	.1	30	1.29	.94	.77	.64	.55	.43
15A2627	40C155M	1.5	40	3.39	2.48	2.03	1.69	1.46	1.13
15A2628	30C225M	2.2	30	2.40	1.76	1.44	1.20	1.04	.80
15A2629	50C335M	3.3	50	5.95	4.29	3.51	2.92	2.53	1.95
15A2630	50C475M	4.7	50	7.89	5.78	4.73	3.94	3.41	2.63
15A2631	50C106M	10	50	14.40	10.56	8.64	7.20	6.24	4.80

100 WVDC

15A2632	20A682M	.0068	20	.60	.44	.36	.30	.26	.20
15A2633	20A103M	.01	20	.60	.44	.36	.30	.26	.20
15A2634	15A103P	.01	15	.27	.20	.16	.14	.12	.09
15A2635	20A223M	.022	20	.60	.44	.36	.30	.26	.20
15A2636	20A333M	.033	20	.60	.44	.36	.30	.26	.20
15A2637	20A473M	.047	20	.60	.44	.36	.30	.26	.20
15A2638	20A683M	.068	20	.63	.46	.37	.31	.27	.21
15A2639	20A104M	.1	20	.63	.46	.37	.31	.27	.21
15A2640	20A104P	.1	20	.45	.33	.27	.22	.19	.15
15A2641	30A224M	.22	30	1.44	1.05	.86	.72	.62	.48
15A2642	30A334M	.33	30	1.56	1.14	.93	.78	.67	.52
15A2643	30A474M	.47	30	1.56	1.14	.93	.78	.67	.52
15A2644	40A684M	.68	40	2.88	2.11	1.72	1.44	1.29	.96
15A2645	30A105M	.1	30	1.92	1.40	1.15	.96	.83	.64
15A2646	50A155M	1.5	50	6.04	4.39	3.62	2.92	2.53	1.95
15A2647	50A225M	2.2	50	6.58	4.89	4.03	3.34	2.81	2.16

CENTRALAB TEMPERATURE COMPENSATING DISCS

TYPE DTZ—NPO ZERO DRIFT WITH TEMPERATURE—500 WVDC

Stk. No.	pt.	Size Dia.	1-99 Each	100 Up	Stk. No.	pt.	Size Dia.	1-99 Each	100 Up
15A768	1.5	.320"	\$0.18	\$0.14	15B334	22	.390"	\$0.18	\$0.14
15A769	2.2	.290"	.18	.14	15B336	33	.390"	.18	.14
15A770	3.3	.290"	.18	.14	15B337	47	.590"	.18	.14
15A771	4.7	.290"	.18	.14	15B338	68	.590"	.18	.14
15A772	6.8	.290"	.18	.14	15B339	100	.590"	.18	.14
15B332	10	.290"	.18	.14	15B379	220	.719"	.30	.24
15B333	15	.290"	.18	.14	15B380	270	.719"	.30	.24

CENTRALAB CERAMIC TRIMMERS

Type B22. Precision adjustable gives smooth linear capacity change with rotation. 500 WVDC rated Size 844x.856", mounting hole centers .430" clear no. 4 screws

Stk. No.	Mfg. No.	Type	Pfd.	1-4	26	101
15A2565	822-EZ	NPO (0 TC)	1.5 to 7	\$1.14	\$95	\$30
15A2566	822-FZ	NPO (0 TC)	3 to 12	1.14	.95	.80
15A2567	822-AZ	NPO (0 TC)	4.5 to 25	1.14	.95	.80
15A2568	822-DN	N650	2 to 6	1.14	.95	.80
15A2569	822-EN	N650	4 to 30	1.14	.95	.80
15A2570	822-AN	N650	8 to 50	1.14	.95	.80

CENTRALAB CERAMIC FEED-THRU CAPACITORS



Type FT



Type MFT

FT Feed-thru. Efficient RF bypassing. Tolerance plus for 1000 pf. and +50 -20% for 1500 pf. 500 WVDC.

Stk. No.	pt.	1-99	100 Up	Stk. No.	pt.	1-99	100 Up
15B658	1000	\$0.75	\$0.60	15B522	50	10%	\$0.30
15B659	1500	.75	.60	15B527	100	10%	.30
				15B532	1000	GMV	.30

MFT Feed-thru. .875" overall length, .15" dia. Efficient low cost, solder flange mtg. For modern space saving circuit design. 500 volts DC.

CENTRALAB TRANSMITTING CERAMICS



solder lugs. Size 1/8" x 5/8" long. 5000 volts.

For high frequency circuits. Tolerance type 850 ±10%; 858 ±20%. All have G-32 tapped studs except 0 which has studs. Size 1/8" x 5/8" long. CHOICE, EACH \$2.70

Stk. No.	Mfg. No.	Cap. pf.	Temp. Coeff.
15A246	850SL	100	N750
15A247	850S	100	N750
15A248	858S	500	HI K
	858S	1000	HI K

CENTRALAB SEMI-CONDUCTOR TYPE LOW VOLTAGE CERAMIC DISC CAPACITORS

"Ultra-Kap" provides capacitances as much as 100 times greater than conventional ceramic dielectrics. Operating temperatures: -55° to +85° C. Durez coated wax impregnated insulation. 1/2" #22 tinned wire leads.



Stock No.	Cap. uf	Max. Dia.	Thick. ness	Lead Spacing	1-99 Each	100-199	200-499	500-999	1000-3999	4000 Up
15A858	.05	.290"	.156"	.250"	.18	.143	.09	.068	.06	.053
15A859	.1	.405"	.156"	.250"	.18	.143	.09	.068	.066	.058
15A860	.2	.590"	.156"	.375"	.30	.238	.15	.113	.095	.083
15A861	.47	.820"	.156"	.375"	.42	.333	.21	.158	.148	.127
15A2267	.01	.290"	.156"	.250"	.15	.12	.087	.074	.052	.046
15A2268	.022	.390"	.156"	.250"	.16	.13	.09	.08	.052	.046
15A2269	.033	.390"	.156"	.250"	.23	.18	.125	.105	.085	.076
15A2270	.05	.406"	.156"	.250"	.23	.18	.125	.105	.085	.072
15A2271	.068	.515"	.156"	.375"	.24	.19	.14	.12	.085	.076
15A2272	.1	.590"	.156"	.375"	.19	.15	.11	.10	.082	.072
15A2273	.15	.690"	.156"	.375"	.35	.289	.177	.15	.106	.093
15A2274	.2	.820"	.156"	.375"	.53	.34	.253	.218	.145	.128
15A2275	.3	.920"	.156"	.375"	.63	.506	.306	.26	.177	.156
15A2276	.05	.405"	.156"	.250"	.18	.143	.09	.068	.062	.055
15A2277	.1	.590"	.156"	.375"	.21	.166	.105	.079	.077	.068
15A2278	.2	.820"	.156"	.375"	.39	.31	.195	.146	.139	.122
15A2246	.01	.290"	.156"	.250"	.16	.13	.09	.08	.052	.046
15A2247	.022	.390"	.156"	.250"	.19	.15	.11	.10	.082	.076
15A2248	.033	.405"	.156"	.250"	.24	.19	.14	.12	.096	.085
15A2249	.05	.485"	.156"	.250"	.24	.19	.14	.12	.085	.076
15A2250	.068	.590"	.156"	.375"	.25	.20	.15	.13	.10	.088
15A2251	.1	.690"	.156"	.375"	.25	.20	.15	.13	.095	.076
15A2252	.15	.820"	.156"	.375"	.55	.427	.26	.22	.148	.13
15A2253	.2	.920"	.156"	.375"	.73	.578	.35	.297	.209	.18
15A2254	.01	.290"	.156"	.250"	.19	.156	.095	.081	.056	.05
15A2255	.015	.390"	.156"	.250"	.25	.198	.12	.102	.062	.054
15A2256	.022	.485"	.156"	.250"	.35	.278	.168	.143	.093	.082
15A2257	.033	.515"	.156"	.375"	.38	.307	.186	.158	.103	.09
15A2258	.047	.590"	.156"	.375"	.46	.37	.222	.188	.125	.11
15A2259	.05	.690"	.156"	.375"	.51	.408	.244	.207	.139	.122
15A2260	.068	.760"	.156"	.375"	.68	.53	.32	.274	.188	.166
15A2261	.1	.920"	.156"	.375"	.86	.89	.415	.352	.244	.215
15B773	.005	.390"	.156"	.250"	.30	.238	.15	.113	.082	.073
15B774	.01	.390"	.156"	.250"	.30	.238	.15	.113	.082	.073
15B775	.02	.406"	.166"	.250"	.54	.428	.27	.203	.195	.171
15A2124	.005	.390"	.156"	.250"	.21	.166	.105	.079	.048	.042
15B560	.01	.390"	.156"	.250"	.21	.166	.105	.079	.052	.046
15B561	.02	.590"	.156"	.375"	.21	.166	.105	.079	.076	.067
15B563	.03	.590"	.156"	.375"	.21	.166	.105	.079	.078	.067
15B564	.05	.690"	.156"	.375"	.30	.238	.15	.113	.088	.077
15B566	.1	.719"	.171"	.375"	.60	.475	.30	.228	.216	.192

CENTRALAB GENERAL PURPOSE CERAMIC DISCS TYPE DD

Durez Insulation with overall protective coating for maximum protection against humidity and voltage breakdown. 1000 DC volts working, 600 V. Tolerance 10% through 1500 pf., balance guaranteed minimum value. Size .156" maximum thickness, 5 thru .820 pf. .290" dia., 1000 thru 2500 .385" dia., 3300 thru 6800 .59" dia., .01 and .02 are .69" dia. and .05 is .25" thick. .875" dia.

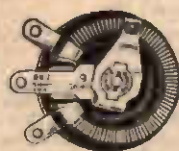


Specify Stk. No. 15M121 and Capacity from Table Above.	Capacity	1-99	100-199	200-499	500-999	1000-3999	4000 Up
5 pf.	25	56	150	300	560	2000	.01
10 pf.	27	68	180	330	680	2200	.02
12 pf.	30	75	200	350	750	3300	.05
15 pf.	33						

OHMITE RHEOSTATS & ADJUSTABLE RESISTORS

OHMITE POWER RHEOSTATS

MINIATURE MODEL "E"



Designed to produce permanently smooth, close control. Construction is all ceramic and metal with pivoted, universal action mounted metal-graphite brush. Mounting for panels up to 1/8" except Model "E" which mounts on 1/8" panel. Average shpg. wt. 1/4 lb. Order knob and Dial Plate from listing below. *Silicone Ceramic Coating.

MODEL "E" 12 1/2-WATT

Dia. 7/8". Depth 11/16". Shaft 1/8". 3/32 bushing. Rated on metal panel. Uses No. 5151 knob and No. 5007 dial plate.

Stock No.	Ohmite No.	Ohms	Max. Amps	1-4	5-9	10-24	25-49
14B808	0101	1	3.53	\$6.30	\$5.36	\$4.22	\$3.47
14B809	0106	10	1.12	6.30	5.36	4.22	3.47
14B810	0107	15	.91	5.60	4.68	3.69	3.03
14B811	0108	25	.71	5.00	4.00	3.03	3.03
14B812	0110	50	.50	5.50	4.68	3.69	3.03
14B813	0112	100	.35	5.50	4.68	3.69	3.03
14B814	0115	250	.22	5.50	4.68	3.69	3.03
14B815	0117	500	.16	5.50	4.68	3.69	3.03
14B816	0119	1000	.11	6.30	5.36	4.22	3.47
14B817	0121	2500	.071	6.30	5.36	4.22	3.47
14B818	0123	5000	.050	7.60	6.46	5.09	4.18
14B819	4190	7500*	.041	7.90	6.72	5.29	4.35
14B820	4191	10000*	.035	7.90	6.72	5.29	4.35
14B821	4193	15000*	.029	8.60	7.31	5.76	4.73

MODEL "H" 25-WATT

Dia. 1-9/16". Depth 1-3/8". Shaft 1/4". 3/8"-32 bushing. Uses No. 5150 knob and No. 5000 dial plate.

Stock No.	Ohmite No.	Ohms	Max. Amps	1-4	5-9	10-24	25-49
14A700	0140	1	5.0	\$6.30	\$5.36	\$4.22	\$3.47
14A701	0142	3	2.88	6.30	5.36	4.22	3.47
14B773	0145	10	1.58	6.30	5.36	4.22	3.47
14B774	0147	25	1.00	5.50	4.68	3.69	3.03
14B775	0149	50	.707	5.50	4.68	3.69	3.03
14B776	0151	100	.500	5.50	4.68	3.69	3.03
14B777	0154	250	.316	5.50	4.68	3.69	3.03
14B778	0156	500	.222	5.50	4.68	3.69	3.03
14B779	0158	1000	.155	6.30	5.36	4.22	3.47
14B780	0160	2500	.100	6.30	5.36	4.22	3.47
14B781	0162	5000	.070	7.40	6.04	4.76	3.91
14B823	4201	10000*	.050	7.40	6.29	4.96	4.07
14B824	4202	15000*	.041	7.90	6.72	5.29	4.35
14B825	4203	20000*	.035	8.40	7.14	5.63	4.62
14B826	4204	25000*	.032	9.20	7.82	6.16	5.06

MODEL "J" 50-WATT

Dia. 2-5/16". Depth 1-3/8". Shaft 1/4". 3/8"-32 bushing. Uses No. 5150 knob and No. 5000 dial plate.

Stock No.	Ohmite No.	Ohms	Max. Amps	1-4	5-9	10-24	25-49
14A702	0309	1	7.07	\$7.40	\$6.29	\$4.96	\$4.07
14A703	0311	4	3.53	7.40	6.29	4.96	4.07
14A1122	0313	8	2.50	6.60	5.61	4.42	3.63
14A711	0315	16	1.76	6.60	5.61	4.42	3.63
14A704	0317	35	1.19	6.60	5.61	4.42	3.63
14A712	0318	50	1.00	6.60	5.61	4.42	3.63
14A705	0319	80	.79	6.60	5.61	4.42	3.63
14A706	0321	150	.575	6.60	5.61	4.42	3.63
14A707	0323	300	.408	6.60	5.61	4.42	3.63
14B782	0324	500	.316	6.60	5.61	4.42	3.63
14B784	0326	1000	.224	7.00	5.95	4.69	3.85
14B785	0328	2500	.141	7.00	5.95	4.69	3.85
14B786	0330	5000	.100	7.40	6.29	4.96	4.07
14B787	0332	10000	.070	7.40	6.29	4.96	4.07
14C719	4210	15000*	.058	8.40	7.14	5.63	4.62
14C720	4211	20000*	.050	9.40	7.99	6.30	5.17
14C721	4212	25000*	.045	10.40	8.84	6.97	5.72
14C724	4215	50000*	.032	14.70	12.50	9.85	8.09

MODEL "K" 100-WATT

Dia. 3-1/8". Depth 1 3/8". Shaft 1/2". 3/8"-32 bushing. Uses No. 5150 knob and No. 5000 dial plate.

Stock No.	Ohmite No.	Ohms	Max. Amps	1-4	5-9	10-24	25-49
14A960	0441	1	10.00	\$10.60	\$9.01	\$7.10	\$5.83
14A951	0444	5	4.47	10.60	9.01	7.10	5.83
14A962	0446	10	3.16	10.60	9.01	7.10	5.83
14A963	0448	25	2.00	9.70	8.25	6.50	5.34
14A964	0449	50	1.41	9.70	8.25	6.50	5.34
14A965	0451	100	1.00	9.70	8.25	6.50	5.34
14A966	0452	200	.707	9.70	8.25	6.50	5.34
14A967	0453	300	.575	9.70	8.25	6.50	5.34
14A968	0455	500	.447	9.70	8.25	6.50	5.34
14A969	0457	1000	.316	10.60	9.01	7.10	5.83
14A970	0459	2000	.224	10.60	9.01	7.10	5.83
14A1309	0461	5000	.141	13.10	11.14	8.78	7.21
14A1310	0463	10000	.100	14.90	12.67	9.98	8.20

KNDBS AND DIAL PLATES

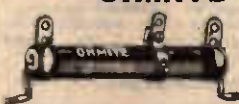
Stk. No.	Type	1-9 Ea.	10-49 Ea.	50 up Ea.
12A2399	5151 Knob	33¢	28¢	21¢
12A2397	5150 Knob	33¢	28¢	21¢
12A872	5007 Plate	33¢	28¢	21¢
12A873	5000 Plate	33¢	28¢	21¢

MODEL "L" 150-WATT

Dia. 4". Depth 2". Shaft 1/2". 3/8"-32 bushing. Uses No. 5150 knob and No. 5000 dial plate.

Stock No.	Ohmite No.	Ohms	Max. Amps	1-4	5-9	10-24	25-49
14B788	0525	1	12.30	\$13.90	\$11.82	\$9.31	\$7.65
14B789	0528	5	5.48	13.90	11.82	9.31	7.65
14B790	0530	10	3.88	13.90	11.82	9.31	7.65
14B791	0531	15	3.18	13.90	11.82	9.31	7.65
14B792	0532	25	2.45	12.90	10.87	8.64	7.10
14B793	0534	50	1.73	12.90	10.87	8.64	7.10
14B794	0536	100	1.22	12.90	10.87	8.64	7.10
14B796	0537	150	1.00	12.90	10.87	8.64	7.10
14B797	0539	250	.775	12.90	10.87	8.64	7.10
14B798	0541	500	.548	12.90	10.87	8.64	7.10
14A1123	0543	1250	.348	13.90	11.82	9.31	7.65
14B799	0544	1800	.288	14.90	12.67	9.98	8.20
14B800	0546	3000	.224	14.90	12.67	9.98	8.20
14B807	0549	10000	.122	21.75	18.49	14.57	11.96

OHMITE TYPE 210 DIVIDOHMS



Vitreous enameled over resistance wound on ceramic core. Easy to obtain odd resistance values, adjust voltages, etc. Supplied with one adjustable lug and two mounting brackets. Additional taps can be made with adjustable lugs shown below. Tolerance ±10%.

CHART OF RESISTANCE VALUES, OHMITE NUMBERS, DIMENSIONS AND MAXIMUM AMPERE RATINGS.

Ohms Resistance	12 Watt 2 Oz. 1 1/4" L X 5/16" D		25 Watt 2 Oz. 2" L X 9/16" D		50 Watt 4 Oz. 4" L X 9/16" D		100 Watt 8 Oz. 6 1/2" L X 1/4" D		225 Watt 1 lb. 10 1/2" L X 1-1/8" D	
	Ohmite No.	Max. Amps	Ohmite No.	Max. Amps	Ohmite No.	Max. Amps	Ohmite No.	Max. Amps	Ohmite No.	Max. Amps
1	1001	3.48	0360	5	0580A	7.07	0956A	10	1356A	15
2	1002	2.45	0380B	3.54	0580B	5	0956B	7.07	1356B	10.60
3	1003	2.00	0381	2.88	0580C	4.07	0956C	5.77	1356C	8.67
5	1004	1.54	0382	2.24	0560	3.16	0956	4.42	1356	6.72
10	1006	1.09	0363	1.58	0581	2.23	0957	3.16	1357	4.74
25	1009	.69	0365	1.00	0562	1.41	0958	2.00	1358	3.00
50	1010	.49	0366	.71	0563	1.00	0959	1.41	1359	2.12
75	1011	.40	0367	.58	0564	.82	---	---	---	---
100	1012	.34	0368	.50	0565	.71	0960	1.00	1360	1.50
150	1013	.28	0369	.41	0566	.58	---	---	---	---
250	1015	.22	0371	.32	0568	.45	0960B	.83	1360B	.95
500	1019	.15	0372	.22	0569	.32	0961	.45	1361	.67
750	1021	.13	0373	.18	0570	.28	---	---	---	---
1000	1023	.11	0375	.16	0572	.22	0962	.32	1362	.47
1500	1025	.089	0376	.13	0573	.18	0962B	.26	1362B	.39
2000	1026	.077	0377	.12	0574	.16	---	---	---	---
2500	1028	.069	0378	.10	0575	.14	0963	.20	1363	.30
5000	1033	.049	0382	.070	0578	.10	0964	.14	1364	.21
7500	1036	.040	0384	.057	---	---	---	---	---	---
10,000	1040	.035	0385	.050	0581	.071	0965	.10	1365	.15
15,000	---	---	0387	.036	0583	.057	---	---	---	---
20,000	---	---	---	---	---	---	0967	.071	1367	.11
25,000	---	---	0389	.028	0585	.045	0968	.063	1368	.095
50,000	---	---	---	---	0588	.026	0971	.045	1371	.067
100,000	---	---	---	---	0591	.018	0973	.028	1373	.047

12-WATT Dividohm. Specify Stk. No. 14M5019 and Resistance when ordering.

Value	1-9 EA.	10-49	50-99	100-249	250-499	500-Up
1 to 1000 Ohms	\$1.50	\$1.28	\$1.05	\$.83	\$.68	\$.63
1500 to 5000 Ohms	1.55	1.32	1.09	.85	.70	.65
7500 to 10,000 Ohms	1.70	1.45	1.19	.94	.77	.71

25-WATT Dividohm. Specify Stk. No. 14M5020 and Resistance when ordering.

Value	1-9 EA.	10-49	50-99	100-249	250-499	500-Up
1 to 1000 Ohms	1.65	1.40	1.16	.91	.74	.69
1500 to 5000 Ohms	1.70	1.45	1.19	.94	.77	.71
7500 to 10,000 Ohms	1.80	1.53	1.26	.99	.81	.76
15,000 Ohms	1.90	1.62	1.33	1.05	.86	.80
25,000 Ohms	2.05	1.74	1.44	1.13	.92	.86

50-WATT Dividohm. Specify Stk. No. 14M5021 and Resistance when ordering.

Value	1-9 EA.	10-49	50-99	100 up
1 Ohm	2.80	2.38	1.86	1.54
2 to 1000 Ohms	2.20	1.87	1.54	1.21
1500 to 5000 Ohms	2.25	1.91	1.58	1.24
7500 to 10,000 Ohms	2.30	1.96	1.61	1.27
15,000 Ohms	2.40	2.04	1.68	1.32
25,000 Ohms	2.70	2.30	1.89	1.49
50,000 Ohms	2.90	2.47	2.03	1.60
100,000 Ohms	3.45	2.93	2.42	1.90

100-WATT Dividohm. Specify Stk. No

OHMITE AND TRW RESISTORS

OHMITRIM WIREWOUND TRIMMERS



One watt, ± 10% tolerance. TPW has 35 turn thumbwheel adjustment. TPS has slider adjustment. TPW is 1.3" L x 0.3" W x .495" H. TPS is 1.0" L x 0.3" W x .495" H. Gold plated terminals spaced for standard .1" hole pattern on PC board. Standard Values: 10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10k and 20k ohms.

Specify stock no. and resistance above on your order.

Stock No.	Ohmite Type	Ohms Range	1-9 Each	10-24 Each	25-49 Each	50-99 Each	100-249 Each	250 up Each
14M5210	TPW	10 to 5K	\$1.75	\$1.60	\$1.45	\$1.35	\$1.25	\$1.15
14A5214	TPW	10K	1.85	1.70	1.55	1.45	1.35	1.25
14A5216	TPW	20K	2.00	1.85	1.70	1.60	1.50	1.40
14M5211	TPS	10 to 5K	1.75	1.60	1.45	1.35	1.25	1.15
14A5212	TPS	10K	1.85	1.70	1.55	1.45	1.35	1.25
14A5213	TPS	20K	2.00	1.85	1.70	1.60	1.50	1.40



OHMITE 8-12-20 WATT TYPE 200 "BROWN DEVILS"

Wire-wound units with wire leads for convenient mounting. Sturdy, vitreous enameled coating provides protection from humidity and mechanical damage. Tolerance ± 5%, 1 ohm and higher, ± 10% values below 1 ohm.

Table Of Stock Resistance Values and Ohmite Brown Devil Numbers

Ohms	8 Watts			12 Watts			20 Watts		
	1" L x .75" D.	1 1/2" L x .75" D.	2" L x .75" D.	1" L x .75" D.	1 1/2" L x .75" D.	2" L x .75" D.	1" L x .75" D.	1 1/2" L x .75" D.	2" L x .75" D.
.5	1500	1700A	1800A	700	1528	1732	1817		
1	15008	1704	1802A	750	1529	1733	1818		
1.5	1501	1705	1802B	1000	1532	1736	1821		
2	1502	1706	1802C	1200	1534	1738	1822		
3	1503	1707	1802D	1250	1535	1739	1823		
4	1504	1708	1803	1500	1536	1740	1824		
5	1504	1708	1803	1750	1537	1741	1825		
7.5	1505	1709		2000	1538	1742	1827		
10	1506	1710	1804	2250	1539	1743			
12	1507	1711		2500	1540	1744	1830		
15	1508	1712		3000	1541	1745	1832		
20	1509	1713		3500	1542	1746	1833		
25	1510	1714	1805	4000	1543	1747	1834		
30	1511	1715		4500	1544	1748	1835		
35	1512	1716		5000	1545	1749	1836		
40	1513	1717		6000	1546	1750	1837		
50	1514	1718	1806	7000	1547	1751			
75	1515	1719	1807	7500	1548	1752	1839		
100	1516	1720	1808	8000	1549	1753			
125	1517	1721		9000	1550	1754A			
150	1518	1722	1809	10,000	1551	1755	1841		
200	1519	1723	1810	12.5K	1552	1758	1842		
225	1520	1724		15 K	1553	1761	1843		
250	1521	1725		20 K	1555	1765	1844		
300	1522	1726		1812	25 K	1767	1845		
350	1523	1727		1813	30 K	1768	1846		
400	1524	1728		1814	50 K	1772	1850		
500	1526	1730		1815	100 K		1860		
600	1527	1731							

OHMITE BROWN DEVIL PRICES

8-WATT - Specify Stock No. 14M5012 and Resistance Value on Orders.

Value	1-9 Each	10-49 Each	50-99 Each	100-249 Each	250-499 Each	500-up Each
1 to 1000 ohms	\$.71	\$.60	\$.50	\$.39	\$.32	\$.30
1200 to 5000 ohms	.76	.65	.53	.42	.34	.32
6000 to 10,000 ohms	.87	.74	.61	.48	.39	.37
12,500 to 20,000 ohms	1.05	.89	.74	.58	.47	.44
25,000 ohms	1.10	.94	.77	.61	.50	.46

12-WATT-Specify Stock No. 14M5013 and Resistance Value on Orders.

Value	1-9 Each	10-49 Each	50-99 Each	100-249 Each	250-499 Each	500-up Each
.5 ohms	\$1.05	\$.89	\$.74	\$.58	\$.47	\$.44
1 to 1000 ohms	.74	.63	.52	.41	.33	.32
1200 to 5000 ohms	.79	.67	.55	.43	.36	.33
6000 to 10,000 ohms	.89	.76	.62	.49	.40	.37
12,500 to 20,000 ohms	1.05	.89	.74	.58	.47	.44
25,000 to 30,000 ohms	1.10	.94	.77	.61	.50	.46
50,000 ohms	1.20	1.02	.84	.66	.54	.50

20-WATT-Specify Stock No. 14M5014 and Resistance Value on Orders.

Value	1-9 Each	10-49 Each	50-99 Each	100-249 Each	250-499 Each	500-up Each
.5 ohms	\$1.20	\$1.02	\$.84	\$.66	\$.54	\$.50
1 to 1000 ohms	.87	.74	.61	.48	.39	.37
1200 to 5000 ohms	.89	.76	.62	.49	.40	.37
6000 to 10,000 ohms	1.10	.94	.77	.61	.50	.46
12,500 to 20,000 ohms	1.15	.98	.81	.63	.52	.48
25,000 to 30,000 ohms	1.25	1.06	.88	.69	.56	.53
50,000 ohms	1.45	1.23	1.02	.80	.65	.61
100,000 ohms	2.00	1.70	1.40	1.10	.90	.84

WORKMAN FUSED RESISTORS

Often needed replacement in series wired TV sets. 5 watt rating. Stk. No. Resistance Stk. No. Resistance Stk. No. Resistance
 14A5028 4.7 Ohms 14A5031 6 Ohms 14A5034 22 Ohms
 14A5029 5 Ohms 14A5032 7.5 Ohms 14A5035 47 Ohms
 14A5030 5.6 Ohms 14A5043 9 Ohms

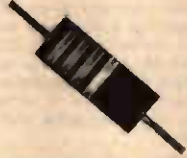
Choice Each 36¢ 10 Lots Each 30¢
 No. 14A5036. Kit of 10 Assorted Fused Resistors in Handy Plastic Box. Contains: 6-7.5, 2-4.7, plus 1 each 5.6 and 9 ohm. \$1.98

OHMITE OHMS LAW CALCULATORS

Pocket size slide rule with parallel resistance scale and standard slide rule scales A, B, C, D on one side and Ohms Law Calculator with full instructions on other side.

No. 14B25. Each 30¢
 No. 14B304. Durable Plastic Model of above. Each \$1.65

TRW TYPE RC COMPOSITION RESISTORS FORMERLY IRC



EIA/MIL color coded. Conforms to MIL-R-11 specs. Formerly known as GBT and SR types.
 RC07 1/4-watt stocked in 2.7 ohms thru 22 Meg. Size 1/4 x 1/2".
 RC20 1/2-watt stocked in 2.7 ohms thru 22 Meg. Size 3/8 x 1/2".
 RC32 1-watt stocked in 2.7 Ohms thru 22 Meg. Size 1/2 x 1/2".
 RC42 2-watt stocked in 10 ohms thru 22 Meg. Size 1/2 x 3/4".
 Values may be assorted for quantity price if multiples of 10 of each value are ordered.

Specify Stk. No., Resistance, Wattage and Tolerance on order.

Stock No.	Type	Wattage	Tolerance	1-9 Each	10-99 Each	100-499 Each	500-999 Each	1000-2499 Each	2500 Up Ea.
14MS002	RC07	1/4-Watt	5%	\$0.26	\$0.10	\$0.07	\$0.06	\$0.05	\$0.044
14MS003	RC07	1/4-Watt	10%	.13	.09	.06	.045	.035	.027
14MS004	RC20	1/2-Watt	5%	.24	.10	.07	.08	.05	.044
14MS005	RC20	1/2-Watt	10%	.12	.08	.05	.04	.03	.023
14MS006	RC32	1-Watt	5%	.36	.18	.10	.09	.08	.069
14MS007	RC32	1-Watt	10%	.18	.10	.07	.055	.045	.038
14MS008	RC42	2-Watt	5%	.48	.27	.23	.20	.17	.16
14MS009	RC42	2-Watt	10%	.24	.15	.13	.11	.10	.09

RC STANDARD STOCK VALUES

All resistances stocked in 5% Tolerance.

10% Tolerance stocked only in resistances listed in Bold Face.

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Meg	Meg	Meg
2.7	16	100	620	3900	24,000	0.1	0.62	3.9
3.0	18	110	680	4300	27,000	0.11	0.68	4.3
3.3	20	120	750	4700	30,000	0.12	0.75	4.7
3.6	22	130	820	5100	33,000	0.13	0.82	5.1
3.9	24	150	910	5600	36,000	0.15	0.91	5.6
4.3	27	160	1000	6200	39,000	0.16	1.00	6.2
4.7	30	180	1100	6800	43,000	0.18	1.1	6.8
5.1	33	200	1200	7500	47,000	0.20	1.2	7.5
5.6	36	220	1300	8200	51,000	0.22	1.3	8.2
6.2	39	240	1500	9100	56,000	0.24	1.5	9.1
6.8	43	270	1600	10,000	62,000	0.27	1.6	10.0
7.5	47	300	1800	11,000	68,000	0.30	1.8	11.0
8.2	51	330	2000	12,000	75,000	0.33	2.0	12.0
9.1	56	360	2200	13,000	82,000	0.36	2.2	13.0
10	62	390	2400	15,000	91,000	0.39	2.4	15.0
11	68	430	2700	16,000	10,000	0.43	2.7	16.0
12	75	470	3000	18,000	11,000	0.47	3.0	18.0
13	82	510	3300	20,000	12,000	0.51	3.3	20.0
15	91	560	3600	22,000	13,000	0.56	3.6	22.0

TRW BWH MOLDED WIRE-WOUND RESISTORS

Exceptional stability, reliability and long-term life characteristics of a wire-wound unit. Provides resistances not available in composition resistors. Rated 1/2-watt @ 137° C Ambient, 1-watt @ 115° C Ambient, and 2-watt @ 70° C Ambient. Size, 1/4 x 1/2". EIA color coded. Wide first band distinguishes from composition resistors.

Specify Stk. No., Resistance and Tolerance on order. Values may be assorted for quantity price if multiples of 10 of each value are ordered.

Stk. No.	Type	Tol.	1-9 Each	10-49 Each	50-99 Each	100-499 Each	500-999 Each
14M5037	BWH	5% Tol.	\$0.30	\$0.20	\$0.17	\$0.16	\$0.15
14M5041	BWH	10% Tol.	.18	.12	.10	.086	.075

Quantity purchasers of 1000 or more of each Value contact B-A for quotation.

BWH STANDARD STOCK VALUES

All resistances shown stocked in 5% Tolerance.

10% Tolerance stocked only in resistances listed in Bold Face.

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
0.10	0.33	1.0	3.3	10	33	100	330
0.11	0.36	1.1	3.6	11	36	110	360
0.12	0.39	1.2	3.9	12	39	120	390
0.13	0.43	1.3	4.3	13	43	130	430
0.15	0.47	1.5	4.7	15	47	150	470
0.16	0.51	1.6	5.1	16	51	160	510
0.18	0.56	1.8	5.6	18	56	180	560
0.20	0.62	2.0	6.2	20	62	200	620
0.22	0.68	2.2	6.8	22	68	220	680
0.24	0.75	2.4	7.5	24	75	240	750
0.27	0.82	2.7	8.2	27	82	270	820
0.30	0.91	3.0	9.1	30	91	300	910

TRW RESISTOR ASSORTMENTS

Sturdy metal cabinets are FREE with any assortment. Designed for stocking. Four non-spill drawers and 28 compartments. Size: 5 1/2 x 5 1/4 x 10 1/2". Shpg. wt. 5 lbs.

DALE PRECISION WIREWOUND RESISTORS

A complete line of 1% precision power wirewound resistors designed for stability and dependability of performance under the most severe environmental conditions.

Temperature coefficient is less than ± 20 PPM/ $^{\circ}$ C above 950 ohms, ± 30 or 50 PPM/ $^{\circ}$ C between 1 and 950 ohm and ± 90 PPM/ $^{\circ}$ C below 1 ohm. $\pm 1\%$ tolerance. Ratings based on 275 $^{\circ}$ C max. hotspot temp.

EQUIVALENT MIL TYPES

Chart is intended as a guide only, see QPL for MIL qualifications.

MIL-R-26E		MIL		MIL		MIL-R-10546		MIL	
Date	MIL	Date	MIL	Date	MIL	Date	MIL	Date	MIL
RS-5	RW67	RS-1A	RW70	RS-2B	RW79	RH-5	RE60	RH-25	RE70
RS-10	RW68	RS-10	RW74	G-3	RW80	RH-10	RE65	RH-50	RE75
RS-2C	RW69	RS-10	RW78	G-1	RW81				

RS PRECISION WIREWOUND RESISTORS $\pm 1\%$ TOLERANCE

MOLDED RS-1/4 thru RS-1

Coated RS-2 thru RS-10

Specify Stock No. and Ohms on Orders

Stock No.	Type	Watts	Max. Res.	Resistance Range Ohms	1-24	25-	50-	100-	250-	500-
					Each	49	99	249	499	999
14M5092	RS-1/4	.4W	3.4K	.1 to .49	2.18	1.96	1.74	1.43	1.32	1.21
		.250 x .078		.5 to .99	1.68	1.48	1.25	1.05	.96	.88
14M5093	RS-1/2	.75W	4.9K	1.0 to 1K	1.08	.85	.80	.75	.69	.65
		.312 x .078		1.1K to 4K	1.19	.95	.89	.83	.76	.72
14M5044	RS-1A	1W	10.4K	4.1K to 15K	1.36	1.06	1.01	.93	.86	.81
14M5094	RS-1B	1.1W	15K							
		.422 x .093								
		.575 x .093								
*Minimum Resistance 1 Ohm										
ABOVE PRICES APPLY TO TYPES RS-1/4 THRU RS-1B										
14M5095	RS-2A	3.25W	42.1K	.1 to .49	1.98	1.76	1.57	1.29	1.20	1.09
		.812 x .188		.5 to .99	1.51	1.33	1.13	.95	.87	.80
14M5045	RS-2B	3W	24.5K	1.0 to 1K	.83	.65	.62	.57	.53	.50
		.560 x .187		1.1K to 5K	.91	.73	.68	.63	.58	.55
14M5096	RS-2C	2.5W	32.3K	5.1K to 10K	.95	.75	.70	.65	.62	.58
		.500 x .218		10.1K to 15K	.99	.78	.74	.69	.64	.60
14M5097	RS-2	4W	47.1K	15.1K to 20K	1.03	.83	.77	.73	.66	.63
		.625 x .250		20.1K to 40K	1.10	.87	.83	.76	.72	.67
14M5046	RS-5	5W	95.2K	40.1K to 55K	1.18	.95	.88	.83	.76	.72
		.875 x .312		55.1K to 75K	1.30	1.03	.97	.91	.84	.82
14M5098	RS-7	7W	154K	75.1K to 100K	1.43	1.14	1.08	1.00	.93	.90
		1.218 x .312		100.1K to 125K	1.57	1.29	1.18	1.10	1.02	.99
14M5099	RS-10	10W	273K	125.1K to 150K	1.71	1.38	1.28	1.20	1.11	1.08
		1.780 x .375		150.1K to 175K	1.87	1.49	1.40	1.31	1.22	1.18
				175.1K to 225K	2.04	1.64	1.53	1.44	1.34	1.30
				225.1K to 273K	2.24	1.80	1.69	1.59	1.49	1.42

ABOVE PRICES APPLY TO TYPES RS-2A THRU RS-10

B-A maintains complete stocks on RS1A from .1 ohm to 10K, RS2B from .1 ohm to 6.3K and on RS5 from .1 ohm to 22K. Others are special ordered for you from factory stocks. \$15.00 minimum item charge applies to special orders only, do not assort values or types for minimum charge.

RLS leaded radial counter parts of RS types are available on special order. Call B-A Industrial Dept. Phone (816) 561-5460 for quotation.

G BERYLLIUM OXIDE CORE 1% PRECISION WIREWOUND

G-5 thru G-15

G-1, G-2, G-3

SEE STANDARD RESISTANCE VALUES ABOVE
Specify Stock Number and Ohms on All Orders

Stock No.	Type	Watts	Max. Res.	Resistance (ohms)	1-24	25-	50-	100-	250-	500-
					Each	49	99	249	499	999
14M5158	G-1	1W	3.4K	.1 - .49	\$3.46	\$2.70	\$2.57	\$2.37	\$2.21	\$2.08
		.25 x .08"		.5 - .99	2.66	2.08	1.98	1.82	1.70	1.60
14M5159	G-2	1.5W	4.9K	1.0 - 1K	1.78	1.49	1.39	1.29	1.18	1.07
		.312 x .08"		1.1K - 5K*	1.91	1.59	1.49	1.38	1.28	1.17
14M5160	G-3	2.2W	10.4K	5.1K - 10K*	2.07	1.73	1.61	1.49	1.39	1.27
		.422 x .093"		10.1K - 20K*	2.20	1.84	1.71	1.59	1.47	1.35
14M5161	G-5	4W	24.5K	20.1K - 24.5K*	2.34	1.95	1.81	1.68	1.56	1.43
		.562 x .19"								
ABOVE PRICES APPLY TO TYPES G-1 THRU G-5										
14M5162	G-5A	4.5W	42.1K	.1 - .99	4.32	3.60	3.36	3.12	2.88	2.64
		.81 x .19"		1.0 - 1K	2.77	2.31	2.18	2.00	1.85	1.69
14M5163	G-5C	5W	32.3K	1.1K - 5K	2.88	2.40	2.24	2.08	1.92	1.76
		.5 x .22"		5.1K - 10K	2.99	2.49	2.32	2.16	1.99	1.83
14M5164	G-6	6W	47.1K	10.1K - 20K	3.13	2.61	2.44	2.26	2.09	1.91
		.63 x .25"		20.1K - 40K	3.28	2.73	2.55	2.37	2.18	2.00
14M5165	G-10	7W	95.2K	40.1K - 60K	3.42	2.85	2.66	2.47	2.28	2.09
		.87 x .31"		60.1K - 75K	3.59	2.99	2.79	2.59	2.39	2.19
				75.1K - 95.2K	3.74	3.12	2.92	2.71	2.51	2.30
ABOVE PRICES APPLY TO TYPES G-5A THRU G-10										
14M5166	G-12	10W		.1 - .99	5.52	5.18	4.82	4.47	4.13	3.78
		1.218 x .312"		1.0 - 1K	3.84	3.60	3.36	3.12	2.88	2.64
		Available in Values to 154K		1.1K - 5K	3.94	3.69	3.44	3.20	2.95	2.71
				5.1K - 10K	4.00	3.75	3.50	3.25	3.00	2.75
				10.1K - 20K	4.10	3.84	3.58	3.33	3.07	2.82
				20.1K - 30K	4.19	3.93	3.67	3.41	3.14	2.88
14M5167	G-15	15W		30.1K - 50K	4.33	4.05	3.78	3.51	3.24	2.97
		1.780 x .375"		50.1K - 75K	4.46	4.17	3.89	3.61	3.34	3.06
		Available in Values to 273K		75.1K - 100K	4.55	4.26	3.98	3.69	3.41	3.12

CALL B-A FOR PRICES ON VALUES NOT LISTED
ABOVE PRICES APPLY TO TYPES G-12 AND G-15

G Resistors are special ordered from the factory for you. Minimum line item charge of \$15.00 applies, do not assort values or types for minimum.

HG aluminum housed, chassis mount counterpart of type G is available from B-A. Call (816) 561-5460 for quotation.

NOTE: Space does not permit pricing out to maximum quantities in all types. Contact B-A for prices on larger quantities, as well as for prices on Dale Products not listed in this catalog.

Contact B-A Industrial Department For All Dale Components — Phone (816) 561-5460

STANDARD RESISTANCE VALUES for Precision Wirewound Resistors (Ohms)

.1	8	45	125	375	900	3K	7.5K	27.5K	90K
.2	9	47	130	400	950	3.3K	8K	30K	100K
.25	10	50	150	425	1K	3.5K	8.2K	35K	110K
.5	11	55	160	450	1.1K	3.75K	9K	40K	120K
.75	12	60	170	470	1.2K	4K	10K	42K	130K
1	12.5	65	175	500	1.3K	4.2K	11K	45K	140K
1.5	15	70	180	510	1.4K	4.3K	12K	47K	150K
2	17.5	75	200	560	1.5K	4.5K	12.5K	50K	160K
2.5	20	80	220	600	1.6K	4.7K	13K	55K	170K
3	22.5	85	225	620	1.75K	5K	15K	60K	175K
4	25	90	250	650	1.8K	6K	17.5K	65K	200K
5	27.5	100	270	700	2K	6.2K	18K	70K	
6	30	110	300	750	2.1K	6.3K	20K	75K	
7	35	115	330	800	2.2K	6.8K	22K	80K	
7.5	40	120	350	850	2.5K	7K	25K	85K	

NS NON-INDUCTIVE COUNTERPART OF RS RESISTORS

SEE RS RESISTORS AT LEFT

Stock No.	Type	Watts	Max. Res.	Resistance (Ohms)	1-24	25-	50-	100-	250-	500-
					Each	49	99	249	499	999
14M5100	NS-1/2	.75W	2.4K	.1 - .49	3.47	3.14	2.78	2.30	2.12	1.94
14M5101	NS-1A	1W	5.2K	.5 - .99	2.69	2.36	2.00	1.68	1.35	1.41
14M5102	NS-1B	1.1W	7.5K	1.0 - 1K	1.84	1.44	1.38	1.27	1.19	1.11
		Same Dimensions as RS Counterpart		1.1K - 5K	2.00	1.60	1.51	1.39	1.29	1.20
				5.1K - 7.5K	3.04	2.73	2.66	2.58	2.53	2.48
ABOVE PRICES APPLY TO TYPES NS-1/2 THRU NS-1B										
14M5103	NS-2	4W	23.5K	.1 - .49	3.14	2.81	2.51	2.06	1.92	1.74
14M5104	NS-2A	3.25W	21K	.5 - .99	2.42	2.13	1.81	1.52	1.40	1.27
14M5105	NS-2B	3W	12.1K	1.0 - 1K	1.41	1.11	1.06	.97	.81	.86
14M5106	NS-2C	2.5W	16.1K	1.1K - 5K	1.84	1.23	1.16	1.07	.99	.92
14M5107	NS-5	5W	47.6K	5.1K - 10K	1.61	1.28	1.20	1.11	1.06	.99
14M5108	NS-7	7W	77K	10.1K - 15K	1.68	1.34	1.25	1.18	1.09	1.03
14M5109	NS-10	10W	136.5K	15.1K - 20K	1.76	1.40	1.32	1.23	1.13	1.08
		Same Dimensions as RS Counterpart		20.1K - 40K	1.88	1.49	1.40	1.30	1.22	1.17
				40.1K - 55K	2.16	1.72	1.62	1.52	1.42	1.37
				55.1K - 75K	2.46	1.97	1.85	1.74	1.61	1.56
				75.1K - 100K	2.73	2.18	2.05	1.92	1.79	1.71
				100.1K - 125K	3.04	2.42	2.28	2.13	1.98	1.90
				125.1K - 136.5K	3.48	2.80	2.61	2.41	2.25	2.11

ABOVE PRICES APPLY TO TYPES NS-2 THRU NS-10

NS Resistors are special ordered from factory stocks for you. Minimum \$15.00 line item charge applies, no assortment of values or types for minimum charge.

RH ALUMINUM HOUSED 1% PRECISION WIREWOUND RESISTORS

SEE STANDARD RESISTANCE VALUES ABOVE
Specify Stock Number and Ohms on All Orders

Stock No.	Type	Watts	Resistance (Ohms)	1-24	25-	50-	100-	250-	500-
				Each	49	99	249	499	999
14M5126	*RH-5	5W	.1 - .49	2.69	2.43	2.21	2.03	1.89	1.80
		.6 x .334 x .32"	.5 - .99	2.59	2.25	2.09	1.92	1.78	1.69
	*RH-5 Res. Range limits		1 - 1K	2.00	1.60	1.30	1.40	1.30	1.22

PRECISION FILM & WIREWOUND RESISTORS

DALE BEYSCHLAG SUPERIOR QUALITY DEPOSITED CARBON 5% RESISTORS

DALE BEYSCHLAG 5% STOCK RESISTANCE VALUES

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Meg	Meg	Meg
1	6.8	47	330	2200	15,000	0.1	0.68	4.7
1.1	7.5	51	360	2400	16,000	0.11	0.75	5.1
1.2	8.2	56	390	2700	18,000	0.12	0.82	5.6
1.3	9.1	62	430	3000	20,000	0.13	0.91	6.2
1.5	10	68	470	3300	22,000	0.15	1.00	6.8
1.6	11	75	510	3600	24,000	0.16	1.1	7.5
1.8	12	82	560	3900	27,000	0.18	1.2	8.2
2	13	91	620	4300	30,000	0.20	1.3	9.1
2.2	15	100	680	4700	33,000	0.22	1.5	10.0
2.4	16	110	750	5100	36,000	0.24	1.6	11.0
2.7	18	120	820	5600	39,000	0.27	1.8	12.0
3.0	20	130	910	6200	43,000	0.30	2.0	13.0
3.3	22	150	1000	6800	47,000	0.33	2.2	15.0
3.6	24	160	1100	7500	51,000	0.36	2.4	16.0
3.9	27	180	1200	8200	56,000	0.39	2.7	18.0
4.3	30	200	1300	9100	62,000	0.43	3.0	20.0
4.7	33	220	1500	10,000	68,000	0.47	3.3	22.0
5.1	36	240	1600	11,000	75,000	0.51	3.6	
5.6	39	270	1800	12,000	82,000	0.56	3.9	
6.2	43	300	2000	13,000	91,000	0.62	4.3	

The world's best semi-precision 5% Deposited Carbon Resistors competitively priced with ordinary composition resistors. Feature superior load life, moisture resistance, temperature coefficient, short time overload stability, noise generation and resistance to soldering heat, exceeding MIL-R-11 requirements.

Wattage ratings are at 70°C. Tape lead packed.

Specify Stock Number and Resistance When Ordering

Stock No.	Type	Size Inches	Ohms Ranges	1-9 Each	10-99	100-249	250-499	500-999	1000-Up
14M5200	SBA 1/4W	.16X.063	10 to 100K	\$0.50	\$2.25	\$1.13	\$1.12	\$1.10	\$0.88
14M5201	SBB 1/4W	.25X.098	1 to 1M	.24	.09	.055	.05	.04	.027
14M5202	SBC 1/4W	.35X.114	1 to 1M	.24	.09	.055	.05	.04	.025
14M5203	SBE 1/4W	.47X.157	1 to 10M	—	—	—	—	—	.035
14M5204	SBF 1W	.55X.236	4.7 to 22M	—	—	—	—	.05	.04
14M5205	SBH 2W	.81X.354	10 to 22M	—	—	—	.09	.075	.06

SBA, SBB, SBC Values are stocked and may be assorted if minimum of 10 of each value are ordered. SBE, SBF and SBH are special ordered from factory stocks in standard packages of 1000 SBE, 500 SBF or 250 SBH. Order SBE, SBF and SBH in multiples of these quantities only, and allow for delivery time. Contact B-A Industrial Dept. for quotations on 5,000 or more.

MF AND MFF PRECISION METAL FILM RESISTORS ± 1% TOLERANCE

PRECISION FILM RESISTORS



MF, MFS

MFF

MF, Epoxy molded, are OPL to MIL-R-10509F. MFF combines small size with flame retardant Epoxy coating. Temperature coefficient (T.C.) codes: T-0 (MIL Char. D) ± 150 PPM/°C, T-1 (MIL Char. D) ± 100 PPM/°C, T-2 (MIL Char. C) ± 50 PPM/°C, T-9 (MIL Char. E) ± 25 PPM/°C. Temperature range -65°C to ±175°C.

STANDARD 1% FILM RESISTANCE VALUES

All decade multiples of these values, within the catalog range shown for each resistor model, are Dale standard values. (Example: For an MF-1/4, 2.00, 20, 200, 2,000, 20,000 and 200,000 are all decade multiples of 2.00.)

1.00	1.30	1.69	2.21	2.87	3.74	4.87	6.34	8.25
1.02	1.33	1.74	2.26	2.94	3.83	4.99	6.49	8.45
1.05	1.37	1.78	2.32	3.01	3.92	5.11	6.65	8.66
1.07	1.40	1.82	2.37	3.09	4.02	5.23	6.81	8.87
1.10	1.43	1.87	2.43	3.16	4.12	5.36	6.98	9.09
1.13	1.47	1.91	2.49	3.24	4.22	5.49	7.15	9.31
1.15	1.50	1.96	2.55	3.32	4.32	5.62	7.32	9.53
1.18	1.54	2.00	2.61	3.40	4.42	5.76	7.50	9.76
1.21	1.58	2.05	2.67	3.48	4.53	5.90	7.68	
1.24	1.62	2.10	2.74	3.57	4.64	6.04	7.87	
1.27	1.65	2.15	2.80	3.65	4.75	6.19	8.06	

DIMENSIONS AND MIL GUIDE

Dale Type	MIL RN	Watts	Size In. L X D.	Oale Type	MIL RN	Watts	Size In. L X D.
MF-50	50	1/20	.150X.065	MFF-1/2	70F	3/4	.562X.187
MF-1/10	55	1/10	.260X.095	MF-3/4	75	1*	.790X.260
MF-1/8	60	1/8	.406X.135	MFF-1	80	2*	1.093X.375
MFF-1/8	65	1/4	.343X.098	MFF-2		2*	.937X.296
MF-1/4	65	1/4	.598X.203	MFF-2		2*	2.188X.375
MFF-1/4	70	1/2	.468X.125				2.062X.296
MFS-1/2	70	1/2	.730X.250				

†For a guide only — check OPL. *At 70°C, others rated 125°C.

B-A maintains complete stocks on MF-1/10-T1, MF-1/8-T1, MFF-1/4-T1 and MFF-1/2-T1. These types may be ordered in any quantity and may be assorted for quantity prices if minimum of 10 of each value are ordered. Other sizes and types are special ordered from factory stocks for you and a minimum item charge of \$15.00 applies. For quotation on larger quantities call B-A Industrial Dept. Phone (816) 561-5460.

Stock No.	Molded Type	Stock No.	Opped Type	T.C. Code	Resistance (Ohms)	1-24 Each	25-99	100-249	250-499
14M5055	MF-50			T-0	24.9 to 100K	\$1.49	\$0.54	\$0.30	\$0.28
14M5056	MF-50			T-1	49.9 to 100K	1.49	.54	.30	.28
14M5057	MF-50			T-2	100 to 100K	2.09	.76	.41	.37
14M5058	MF-50			T-9	100 to 100K	4.60	1.67	.85	.80
14M5059	MF-1/10			T-0	10 to 301K	1.05	.48	.24	.18
14M5049	MF-1/10			T-1	30.1 to 301K	1.05	.48	.24	.18
14M5060	MF-1/10			T-2	30.1 to 301K	1.44	.66	.32	.20
14M5061	MF-1/10			T-9	30.1 to 301K	1.77	1.07	.72	.51
14M5062	MF-1/8	14M5173	MFF-1/8	T-0	10 to 1 Meg	1.05	.48	.24	.18
14M5060	MF-1/8	14M5174	MFF-1/8	T-1	24.9 to 1 Meg	1.05	.48	.24	.18
14M5063	MF-1/8	14M5175	MFF-1/8	T-2	30.1 to 499K	1.44	.66	.32	.20
14M5064	MF-1/8	14M5176	MFF-1/8	T-9	30.1 to 499K	1.77	1.07	.72	.51
14M5065	MF-1/4	14M5177	MFF-1/4	T-0	10 to 2 Meg	1.05	.48	.24	.18
14M5066	MF-1/4	14M5178	MFF-1/4	T-1	24.9 to 2 Meg	1.05	.48	.24	.18
14M5067	MF-1/4	14M5179	MFF-1/4	T-2	30.1 to 1 Meg	1.44	.66	.32	.20
14M5068	MF-1/4	14M5180	MFF-1/4	T-9	30.1 to 1 Meg	1.77	1.07	.72	.51
14M5069	MFS-1/2	14M5181	MFF-1/2	T-0	10 to 2.49 Meg	1.05	.48	.24	.18
14M5070	MFS-1/2	14M5182	MFF-1/2	T-1	24.9 to 2.49 Meg	1.05	.48	.24	.18
14M5071	MFS-1/2	14M5183	MFF-1/2	T-2	24.9 to 1 Meg	1.44	.66	.32	.20
14M5072	MFS-1/2	14M5184	MFF-1/2	T-9	24.9 to 1 Meg	1.77	1.07	.72	.51
14M5073	MF-3/4			T-0	10 to 2.49 Meg	1.43	.86	.52	.39
14M5074	MF-3/4			T-1	24.9 to 2.49 Meg	1.43	.86	.52	.39
14M5075	MF-3/4			T-2	100 to 1 Meg	1.91	1.14	.68	.51
14M5076	MF-3/4			T-9	100 to 1 Meg	2.40	1.43	.86	.64
14M5077	MF-1	14M5185	MFF-1	T-0	10 to 5.11 Meg	1.38	.87	.68	.64
14M5078	MF-1	14M5186	MFF-1	T-1	24.9 to 4.02 Meg	1.38	.87	.68	.64
14M5079	MF-1	14M5187	MFF-1	T-2	49.9 to 2.61 Meg	2.15	1.23	.94	.91
14M5080	MF-1	14M5188	MFF-1	T-9	49.9 to 2.61 Meg	4.02	2.32	1.76	1.74
14M5081	MF-2	14M5189	MFF-2	T-0	30.1 to 3 Meg	1.93	1.13	.78	.76
					3.01 to 6 Meg	2.77	1.98	1.63	1.61
					6.01 to 10 Meg	4.13	3.33	2.98	2.96
14M5082	MF-2	14M5190	MFF-2	T-1	100 to 3 Meg	1.93	1.13	.78	.76
					3.01 to 6 Meg	2.77	1.98	1.63	1.61
					6.01 to 8 Meg	4.13	3.33	2.98	2.96
14M5083	MF-2	14M5191	MFF-2	T-2	100 to 3 Meg	2.31	1.52	1.13	1.10
					3.01 to 8 Meg	3.45	2.67	2.26	2.08
14M5084	MF-2	14M5192	MFF-2	T-9	200 to 3 Meg	4.65	2.96	2.24	2.20
					3.01 to 5.11 Meg	6.50	4.81	4.09	4.05
TOLERANCE PRICE					0.10%	.50	.40	.25	.20
AODER					0.25%	.35	.25	.18	.15
(ADD TO PRICES ABOVE)					0.50%	.18	.12	.10	.08

CW INDUSTRIAL POWER WIREWOUND RESISTORS

TOLERANCE ± 5% 1 OHM AND ABOVE ± 10% BELOW 1 OHM

Specify Stock Number and Resistance on all Orders

Stock No.	Dale Type	MIL Type	Watts	Resistance (Ohms)	1-9 Each	10-24	25-49	50-99	100-249	250-499
14M5197	CW2C-1	RW-69	3	1 - .99	0.68	0.50	0.41	0.38	0.35	0.32
				1 - 10	.56	.41	.34	.31	.29	.26
				10.1 - 1K	.45	.33	.27	.25	.23	.21
				1.1K - 5K	.47	.35	.28	.26	.24	.22
				5.1K - 12K	.52	.38	.31	.29	.26	.24
14M5198	CW5-5	RW-67	6.5	1 - .99	.74	.54	.45	.41	.38	.35
				1 - 10	.61	.45	.36	.34	.31	.28
				10.1 - 1K	.47	.35	.28	.26	.24	.22
				1.1K - 5K	.52	.38	.31	.29	.26	.24
				5.1K - 15K	.56	.41	.34	.31	.29	.26
				15.1K - 25K	.61	.45	.36	.34	.31	.28
				25.1K - 35K	.63	.46	.38	.35	.32	.29
14M5199	CW10-4	RW-68	11	1 - .99	.88	.64	.53	.49	.45	.41
				1 - 10	.81	.59	.49	.45	.41	.38
				10.1 - 1K	.68	.50	.41	.38	.35	.32
				1.1K - 5K	.70	.51	.42	.39	.36	.33
				5.1K - 15K	.74	.54	.45	.41	.38	.35
				15.1K - 25K	.81	.59	.49	.45	.41	.38
				25.1K - 50K	.90	.66	.54	.50	.46	.42
				50.1K - 100K	1.01	.74	.61	.56	.52	.47

Axial lead, high temp. silicone coated with complete welded construction. CW resistors feature high performance, low cost, excellent stability and high power to size ratio. .032" diameter tinned leads, TC to 50PPM/°C. Exceed electrical, environmental and dimensional requirements of MIL-R-26.

All CW resistors listed are stocked by B-A. Values or wattages may be assorted for quantity prices if minimum of 10 of each value are ordered. For values not shown and for larger quantities call B-A Industrial Dept., Phone (816) 561-5460.

STOCK RESISTANCE VALUES FOR CW WIREWOUND RESISTORS (OHMS)

.1	7.5	30	125	300	750	2.5K	7.5K	30K
5	10	35	150	330	1K	3K	10K	35K
1	12	40	175	350	1.2K	3.3K	12K	50K
2	15	47	200	400	1.5K	3.5K	15K	75K
3	17.5	50	220	470	1.75K	4K	20K	100K
4	20	75	250	500	2K	4.7K	22K	
5	25	100	270	560	2.2K	5K	25K	

B-A maintains stocks of Dale products as stated in this catalog listing of each Dale type. In addition, Dale manufactures many products that cannot be included in our catalog due to space limitations. All Dale items are available from B-A.

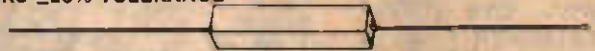
Your Inquiry for price, availability and delivery of any Dale product is welcome and will be answered immediately. Call (816) 561-5460 or address B-A Industrial Division, 3199 Mercier, Kansas City, Missouri 64111.



WIREWOUND RESISTORS & TRIMMER POTS

CP POWER WIRE-WOUND RESISTORS ±10% TOLERANCE

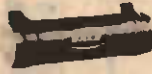
Fireproof insulated resistors, may be mounted directly to chassis. Rectangular shape facilitates stacking and clamping together. Ceramic case is resistant to solvents and moisture. You may assort sizes for quantity price if a minimum of 10 of each value are ordered.



STANDARD RESISTANCE VALUES for CP Wirewound Resistors (Ohms)

1	5	20	50	200	350	1K	2.5K	5K	22K
5	7.5	25	75	220	400	1.2K	3K	7.5K	25K
1	10	30	100	250	470	1.5K	3.3K	10K	30K
2	12	35	125	270	500	1.75K	3.5K	12K	
3	15	40	150	300	560	2K	4K	15K	
4	17.5	47	175	330	750	2.2K	4.7K	20K	

Specify Stock Number and Resistance on All Orders								
Stock No.	Type	Dimensions	Watts	Resistance Ohms	1-99 Each	100-499 Each	500-999 Each	
14M5194	CP-5	7/8 x 3/8 x 11/32"	5	.1 to .99	\$0.23	\$0.18	\$0.14	
				1. to 999	.13	.11	.10	
				1K to 8.5K	.14	.12	.11	
14M5196	CP-10	1-7/8 x 3/8 x 11/32"	10	1 to .99	.33	.23	.19	
				1. to 999	.25	.20	.13	
				1K to 30K	.26	.21	.14	



HL INDUSTRIAL WIREWOUND RESISTORS ±5% TOLERANCE 1 OHM AND ABOVE, 10% BELOW 1 OHM

High temperature silicone coated power resistors with solder lug terminals. Type HL meets or exceeds electrical, environmental and dimensional requirements of MIL-R-26. You may assort resistance values in any single type for quantity prices, but wattage ratings may not be assorted in HL resistors. Please note that mounting brackets are not supplied unless included separately on your order.

STOCK RESISTANCE VALUES For HL Wirewound Resistors (ohms)

1	5	20	50	200	350	1K	2.5K	5K	22K
5	7.5	25	75	220	400	1.2K	3K	7.5	25K
1	10	30	100	250	470	1.5K	3.3K	10K	35K
2	12	35	125	270	500	1.75K	3.5K	12K	50K
3	15	40	150	300	560	2K	4K	15K	75K
4	17.5	47	175	330	750	2.2K	4.7K	20K	100K

Stock No.	Type	Dimensions	Watts	Resistance (Ohms)	1-9 Each	10-24	25-49	50-99	100-249	250-499	500-999
14M5145	HL-25	2 x 1 1/2"	25W.	10.1K - 25K	.78	.70	.62	.58	.53	.43	.35
				25.1K - 50K	.88	.78	.69	.65	.58	.48	.39
				50.1K - 100K	.93	.84	.75	.70	.63	.52	.42
14M5147	HL-50	4 x 1 1/2"	50W.	.1 - .99	1.09	.98	.87	.81	.74	.61	.49
				1 - 250	0.88	.79	.70	.66	.59	.49	.40
				251 - 1K	.89	.80	.71	.67	.60	.50	.41
				1.1K - 5K	.97	.87	.77	.72	.65	.54	.44
				5.1K - 15K	1.10	1.00	.88	.82	.74	.61	.50
				15.1K - 45K	1.19	1.07	.95	.89	.81	.66	.54
				45.1K - 75K	1.31	1.17	1.04	.98	.88	.73	.59
				75.1K - 100K	1.41	1.27	1.13	1.06	.96	.79	.64

Stock No.	Type	Dimensions	Watts	Resistance (Ohms)	1-9 Each	10-24	25-49	50-99	100-249	250-499	500-999
14M5139	HL-6	1 x 1 1/2"	6W.	.1 - .99	.59	.53	.47	.44	.40	.33	.27
				1 - 1K	.48	.43	.38	.36	.32	.26	.21
				1.1K - 5K	.50	.45	.40	.37	.34	.28	.22
				5.1K - 15K	.53	.47	.42	.39	.36	.29	.24
14M5142	HL-12	1 1/2 x 1 1/2"	12W.	.1 - .99	.70	.63	.56	.52	.47	.39	.32
				1 - 100	.51	.46	.41	.38	.35	.28	.23
				101 - 1K	.54	.49	.44	.41	.37	.30	.24
				1.1K - 2.5K	.58	.52	.46	.43	.39	.32	.26
				2.51K - 5K	.60	.54	.48	.45	.41	.34	.27
				5.1K - 10K	.62	.56	.50	.46	.42	.35	.28
				10.1K - 25K	.68	.61	.54	.51	.46	.38	.31
				25.1K - 50K	.72	.65	.58	.54	.49	.40	.33

No. 14A5207. 203 Push-In Brackets for horizontal mounting of HL-25 and HL-50. Available only with resistor order. Pair 4¢

Stock No.	Type	Dimensions	Watts	Resistance (Ohms)	1-9 Each	10-24	25-49	50-99	100-249	250-499	500-999
14M5153	HL-120	6 x 1 1/2" (RW37)	120W.	.1 - .99	2.44	2.19	1.95	1.82	1.65	1.36	1.10
				1 - 8	2.16	1.95	1.73	1.62	1.46	1.20	.98
				8.1 - 60	1.99	1.79	1.59	1.48	1.34	1.10	.88
				60.1 - 1K	1.91	1.72	1.53	1.43	1.29	1.06	.87
				1.1K - 2.5K	2.01	1.81	1.61	1.51	1.36	1.12	.91
				2.51K - 5K	2.10	1.89	1.68	1.57	1.42	1.17	.95
				5.1K - 10K	2.21	1.99	1.77	1.66	1.50	1.23	1.00
				10.1K - 25K	2.30	2.07	1.84	1.72	1.58	1.28	1.04
				25.1K - 55K	2.58	2.32	2.06	1.93	1.74	1.43	1.16
				55.1K - 10K	2.75	2.48	2.20	2.06	1.86	1.53	1.24
14M5157	HL-225	10 1/2 x 1 1/2" (RW47)	225W.	.1 - .99	3.75	3.38	3.00	2.81	2.54	2.09	1.70
				1 - 15	3.23	2.90	2.58	2.41	2.18	1.79	1.46
				15.1 - 75	2.83	2.63	2.34	2.19	1.98	1.63	1.32
				75.1 - 2.5K	2.78	2.50	2.22	2.08	1.88	1.54	1.28
				2.51K - 5K	2.98	2.68	2.38	2.23	2.01	1.65	1.35
				5.1K - 10K	3.10	2.79	2.48	2.32	2.10	1.72	1.40
				10.1K - 35K	3.40	3.06	2.72	2.54	2.30	1.89	1.54
				35.1K - 50K	3.53	3.17	2.82	2.64	2.38	1.96	1.59
				50.1K - 100K	4.03	3.62	3.22	3.01	2.72	2.24	1.82

No. 14A5208. 201 Push-In Brackets for horizontal mounting of HL-120 and HL-225. Available only with resistor order. Pair 5¢

No. 14A5206. 204 Push-In Brackets for horizontal mounting of HL-6 and HL-12. Available only with resistor order. Pair 4¢

Stock No.	Type	Dimensions	Watts	Resistance (Ohms)	1-9 Each	10-24	25-49	50-99	100-249	250-499	500-999
14M5145	HL-25	2 x 1 1/2"	25W.	.1 - .99	.78	.70	.62	.58	.52	.43	.35
				1 - 250	.60	.54	.48	.45	.41	.34	.27
				251 - 1K	.63	.57	.51	.47	.43	.35	.28
				1.1K - 5K	.68	.61	.54	.51	.46	.38	.31
				5.1K - 10K	.74	.66	.59	.55	.50	.41	.33

DALE TRIMMER POTENTIOMETERS



High reliability with simple designs developed for military electronics now adapted to both MIL and Industrial uses.

DIMENSIONS

Series	Size	Series	Size	Series	Size
80	.19X.27X.28" C	2100	.28X.31X.25" W	5000	.22X.50X.50" W
600	.18X.32X1.00" W	2300	.36X.28X1.00" W	5800	.15X.38X.38" W
800	.15X.10X.50" C	2400	.31X.16X.75" W	8400	.31X.16X.75" C
1200	.28X.31X.25" W	2600	.19X.25X.75" W	8600	.19X.25X.75" C
1600	.19X.32X1.25" W	2700	.17X.25X.75" W	8700	.17X.25X.75" C
1800	.19X.32X1.25" W				

"C" — Wirewound "W" — Cermet Element

Terminal Configurations: "A" 28AWG stranded Teflon leads. "B" 30AWG stranded Teflon leads. "C" 28AWG stranded Vinyl leads. "D" PC Pins 21AWG. "F" PC pins 22AWG. "G" PC terminals, gold plated, hand insertable. "H" PC terminals gold plated, machine insertable. "J" solder lugs.

Standard Stock Values: 10, 20, 50, 100, 200, 500, 1K, 2K, 5K, 10K, 15K, 20K, 25K, 50K, 100K, 200K, 250K, 500K, 1M, 2M within ranges shown. 15K is not stocked in all models. See notes on Dale Trimmer Potentiometer Prices

B-A maintains complete stocks on 14M1172, 14M1173, 14M1174, 14M1175 and 14M1176. Other numbers are available on special order. Minimum special order amount is \$15.00 for each line item. Do not assort sizes or types for minimum charge.

For quotation on larger quantities call B-A Industrial Dept., Phone (B16) 561-5460.

Specify Stock Number and Resistance on All Orders											
Fig.	Stock No.	MIL Type	Equiv. No.	Oale No.	Term. Conf.	Res. Range (Ohms)	1-9 Each	10-24	25-49	50-99	100-249
(1)	14M1263	RT10C2P	691	E	D	10-10K	\$5.56	\$5.13	\$4.71	\$4.34	\$4.03
(2)	14M1264	RT10C2L	691	A	D	Over 10K-30K	6.11	5.64	5.17	4.77	4.42
					D	Over 30K-50K	6.43	5.94	5.47	5.07	4.72
Above Prices for all RT10's											
(1)	14M1172	RT11C2P	1287	D	D	10-10K	5.56	5.13	4.71	4.34	4.03
(2)	14M1265	RT11C2L	1288	A	D	Over 10K-30K	6.11	5.64	5.17	4.77	4.42
					D	Over 30K-50K	6.43	5.94	5.47	5.07	4.72
					D	Over 50K-100K	7.83	7.23	6.63	6.11	5.68
Above Prices for all RT11's											
(1)	14M1173	RT12C2P	1680	D	D	10-10K	5.56	5.13	4.71	4.34	4.03
(2)	14M1266	RT12C2L	1697	A	D	Over 10K-30K	6.11	5.64	5.17	4.77	4.42
					D	Over 30K-50K	6.43	5.94	5.47	5.07	4.72
					D	Over 50K-100K	7.83	7.23	6.63	6.11	5.68
Above Prices for all RT12's											
(1)	14M1301	RTR120P	1880*	D	D	10-20K	12.68	11.65	10.67	9.84	9.15
(2)	14M1302	RTR120L	1897*	A	D		Above Prices for all RTR's				
(3)	14M1267	RT22C2L	5050*	B	D	10-10K	5.47	5.14	4.84	4.54	4.24
(4)	14M1268	RT22C2W	5080*	D	D	Over 10K-30K	6.02	5.69	5.36	5.03	4.70
(5)	14M1269	RT22C2P	5091*	D	D	Over 30K-50K	7.07	6.68	6.29	5.90	5.41
(6)	14M1270	RT22C2X	5087*	O	D		Above Prices for all RT22's				
(3)	14M1271	RT24C2L	5850	B	D	10-10K	6.17	5.76	5.28	4.87	4.53
(4)	14M1272	RT24C2W	5880	D	D	Over 10K-30K	6.58	6.17	5.69	5.28	4.94
(4)	14M1273	RT24C2X	5887	O	D	Over 30K-50K	7.21	6.80	6.32	5.91	5.57
(5)	14M1274	RT24C2P	5891	D	D		Above Prices for all RT24's				
(5)	14M1297	857*	H	H	10-1M	2.00	1.79	1.66	1.53	1.41	
(5)	14M1298	85A1*	G	H	10-1M	2.00	1.79	1.66	1.53	1.41	
(6)	14M1299	871*	H	H	10-1M	1.65	1.49	1.38	1.27	1.17	
(6)	14M1300	87A1*	G	H	10-1M	1.65	1.49	1.38	1.27	1.17	
(1)	14M1295	8171*	F	H	10-2M	3.10	2.80	2.50	2.41	2.22	
(1)	14M1296	857*	F	H	10-2M	2.84	2.55	2.38	2.19	2.03	

Fig.	Stock No.	MIL Type	Equiv. No.	Dale No.	Term. Conf.	Res. Range (Ohms)	1-9 Each	10-24	25-49	50-99	100-249
(1)	14M1174		2187	D	D	10-10K	\$3.10	\$2.85	\$2.62	\$2.45	\$2.30
(2)	14M1275		2188	C	D	Over 10K-30K	3.61	3.31	3.05	2.83	2.66
(1)	14M1276		2199	J	D	Over 30K-50K	4.11	3.77	3.47	3.23	3.03
Above Prices for all 2100's											
(1)	14M1277		2317*	G	D	10-20K	2.04	1.88	1.70	1.57	1.45
(1)	14M1278		2319*	K	D	50K	2.44	2.20	2.10	1.97	1.85
(1)	14M1175		2387*	G	D	10-20K	1.94	1.78	1.60	1.47	1.35
(1)	14M1176</										

MALLORY - OHMITE AND TRW CONTROLS

TRW - CTS TRIMMER CONTROLS



P115 I17 U201 X201

WIREWOUND TRIMMERS 2 WATT ± 10%

Fully enclosed, insulated nylon rotor, cross slot adjustment. 2 watt, linear taper, ± 10% tolerance. Both have printed circuit board terminals.
 Type P115. Twist tab for PC board.
 Type I17 have rivet ear mountings.
 5, 10, 25, 50, 100, 250, 500, 1,000, 2,500, 5,000, 10,000 ohm.
 No. 14M8, P115. Your Choice
 No. 14M9, I17. 1-24 Each \$1.25 25-49 Each \$1.00 50 Up Each 75c

MINIATURE CARBON TRIMMERS ¼ WATT ± 20%

U201 Series. ½" dia. Arrow indicator knob, slotted for front or rear screwdriver adjustment. Snap-in self supporting parallel to printed circuit board. Linear taper. X201 Series. As above with vertical mounting.
 100 500 2,500 10,000 50,000 250,000 1 Meg.
 250 1,000 5,000 25,000 100,000 500,000
 No. 14M10, U201. Your Choice 1-24 25-49 50-99 100 Up
 No. 14M19, X201. Each \$0.39 \$0.35 \$0.33 \$0.29

MALLORY SUB-MINIATURE CONTROLS

Only ½" diameter. ¼" - 32 bushing with mounting nut. ¼" steel shaft, 1½" long, 5PST switch rated 3 amp 125 VAC. *Taper 1 is audio, Taper 4 is linear. 5hpg. wt. 1 oz.



TYPE MLC LESS SWITCH

Stk. No.	Type	Ohms	Taper*	Stk. No.	Type	Ohms	Taper*
14A933	MLC13L	1000	4	14A939	MLC15A	.1 Meg	1
14A934	MLC252A	2500	1	14A940	MLC15L	.1 Meg	4
14A935	MLC53A	5000	1	14A941	MLC25L	.2 Meg	4
14A936	MLC53L	5000	4	14A942	MLC25AL	.25 Meg	4
14A937	MLC14L	10,000	4	14A1124	MLC55A	.5 Meg	1
14A938	MLC54L	50,000	4				

Your Choice Each
 1-24...\$1.14 25-49...\$1.03 50-99...95c 100-174...86c 175-299...81c 300-499...76c

TYPE MLC WITH SWITCH

14A951	MLC222LS	2200	4	14A956	MLC55AS	.5 Meg	1
14A952	MLC252AS	2500	1	14A957	MLC55LS	.5 Meg	4
14A953	MLC53AS	5000	1	14A958	MLC16AS	1 Meg	1
14A954	MLC53LS	5000	4	14A959	MLC16LS	1 Meg	4
14A955	MLC14AS	10,000	1				

Your Choice Each
 1-24...\$1.86 25-49...\$1.67 50-99...\$1.55 100-174...\$1.40 175-299...\$1.33 300 Up...\$1.24

12B1205. Knob for MLC Controls. Ea. 15c 25 Ea. 11c 100 Ea. 10c

MALLORY VOLUME CONTROLS WITH SWITCHES

Top quality American made controls available at lower prices! Smooth action. Switch rated 3 A. @ 125 V. AC. Nylon shaft easily cut to proper length with wire cutters. Rotary type has ¼" shaft. Push-pull has ½" shaft.

WITH ROTARY SWITCH				WITH PUSH-PULL SWITCH			
Stk. No.	Resistance	Each	10 Ea.	Stk. No.	Resistance	Each	10 Ea.
14A1101	500K Ohm	\$0.89	\$0.79	14A1103	500K Ohm	\$1.19	\$0.99
14A1100	1 Meg	.89	.79	14A1102	1 Meg	1.19	.99

1-INCH BLACK KNOBS for above.
 No. 12A2026. With ¾" brass insert and screw for push-pull.
 Each 28c 10 Each 23c 100 Each 20c
 No. 12A692. With ¼" molded hole and screw for rotary.
 Each 16c 25 Each 14c 100 Each 13c

MALLORY "L", "T" & "L-A" PAOS

Standard 15 Audio Watts (4 watts DC). L&T pads 1½" dia.; L pad is 1½" deep; T pad is 1¼" deep. Both have ¼" shaft, 2" long with ¾" bushing. All are complete with mounting hardware, knob, and dial plate.

15-WATT "L" PAOS					
Stk. No.	Type	Resistance	Stk. No.	Type	Resistance
14A1104	L-4	4	14A1125	L-250	250
14A1105	L-8	8	14A1107	L-500	500
14A1106	L-15	15	14A1108	L-1000	1000
Choice		1-9 10-24 25-49			50-99 100-249 250-499
Each		\$2.73 \$2.59 \$2.46			\$2.28 \$2.05 \$1.82

15-WATT "L-A" PAOS WITH T" BUSHING, 1½" SHAFT					
Stk. No.	Type	Resistance	Stk. No.	Type	Resistance
14A1116	L8A	8	14A1127	L16A	16
Choice		1-9 10-24 25-49			50-99 100-249 250-499
Each		\$2.85 \$2.71 \$2.57			\$2.38 \$2.14 \$1.90

15-WATT "T" PADS					
Stk. No.	Type	Resistance	Stk. No.	Type	Resistance
14A1111	T-4	4	14A1113	T-50	50
14A1112	T-8	8	14A1114	T-100	100
14A1121	T-15	15	14A1126	T-250	250
Choice		1-9 10-24 25-49			50-99 100-249 250-499
Each		\$3.54 \$3.36 \$3.19			\$2.95 \$2.66 \$2.36

MALLORY STEREO L-PAOS WITH 1-INCH BUSHING
 Two L pads in tandem for stereo level control. Bushing ¾" x 1". Shaft ¼" dia. x 1½" long. With nuts, washers and deluxe "Level" dial supplied.

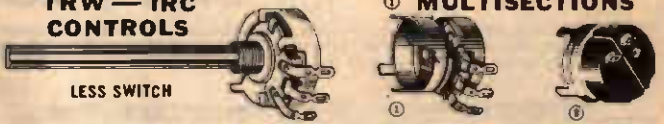
Stk. No.	Type	Impedance	Stk. No.	Type	Impedance
14A1119	LL8	8 Ohms	14A1120	LL16	16 Ohms
Choice		1-9 10-24 25-49			50-99 100-249 250-499
Each		\$5.70 \$5.42 \$5.13			\$4.75 \$4.28 \$3.80

MALLORY STEREO LEVEL CONTROL

Controls volume on stereo speakers. Rated 10 watts audio. With nuts, washers, dial and knob. Bushing ¾" x 1". Shaft ¼" dia. No. 14A1152. RR50. Each \$2.10 10 Each \$2.00



TRW - IRC CONTROLS



¾" diameter with universal 3" shaft. Meets most every replacement requirement. See switches at right. Add multisections to assemble dual or multisection controls. Shpg. wt. 4 ozs.

Stk. No.	IRC Type	Ohms Res.	Taper	Stk. No.	IRC Type	Ohms Res.	Taper
14C377	Q11-201	250	A	14B183	M11-116	10K	A
14B416	Q11-103	500	A	14B200	M11-120	25K	A
14A417	Q11-108	1000	A	14B201	M11-123	50K	A
14C379	Q11-109	1500	A	14B203	M11-128	.1 Meg.	A
14C380	Q11-110	2000	A	14B206	M11-133	.5 Meg.	A
14B419	Q11-112	3K	A	14B208	M11-137	1.0 Meg.	A
14B421	Q11-114	5K	A	14B212	M11-141	5.0 Meg.	A

CHOICE EACH \$1.04 EACH \$1.74

SNAP-ON SWITCHES

Type GC S.P.S.T. Switch No. 14A1177. EACH 99c
 Type WF D.P.S.T. Switch No. 14A1178. EACH 99c



MALLORY PUSH-PULL REPLACEMENT SWITCHES

Replaces push-pull AC switch sections of single and dual controls. Rated 6 amp. 125VAC. Easy to replace.

Stk. No.	Type	Each	8 Each
14A1150	KR8M	99c	90c
14A1151	KR9M	99c	90c

VOLUME CONTROL ACCESSORIES

- 1 No. 14A186. Mounting Bracket. 2½" centers. 5 For
- 2 No. 14A189. Extension Shaft. ¼"x4" with ½" flat. Each 95c 10 Ea. 85c
- 3 Dial Plates. Calibrated 0-10, matching rotation of volume controls and rheostat. No. 14A180. For Wire-Wound Controls. Your Choice
- 4 No. 14A182. For Carbon Controls. Each 35c 10 Each 32c
- 5 Adapter Bushing. For mtg. above controls in thick panels or enclosures. Fits any control with standard ¾" bushing and extends bushing 1". No. 14A223. Type AK-31. Brass Adapter. Net Each 72c 10 Each 66c

OHMITE MOLDED COMPOSITION CONTROLS

Used in commercial and military electronic applications where highest quality and dependability are most important. Rated at 2 watts at 70% C. Meets all specs. of MIL-R-94. All are 1½" dia., ¼" dia. shafts. CU has 2" round shaft, CLU has ¾" slotted shaft with locking nut. 10% tolerance to 500K, 20% above 500K. Wt. 3 oz.

LINEAR TAPER, TYPE CU				LINEAR TAPER, TYPE CLU			
Stock	Ohms	Ohmite No.	MIL RV4NAYSK	Stock	Ohms	Ohmite No.	MIL RV4LAYSA
14A866	50	CU5001	500A	14B827	50	CLU5001	500A
14A865	100	CU1011	101A	14B828	100	CLU1011	101A
14A983	150	CU1511	151A	14A947	150	CLU1511	151A
14A864	250	CU2511	251A	14B829	250	CLU2511	251A
14A984	350	CU3511	351A	14A948	350	CLU3511	351A
14A863	500	CU5011	501A	14B830	500	CLU5011	501A
14B985	750	CU7511	751A	14A949	750	CLU7511	751A
14A862	1,000	CU1021	102A	14B831	1,000	CLU1021	102A
14A986	1,500	CU1521	152A	14A950	1,500	CLU1521	152A
14A861	2,500	CU2521	252A	14B832	2,500	CLU2521	252A
14A987	3,500	CU3521	352A	14A991	3,500	CLU3521	352A
14A860	5,000	CU5021	502A	14B833	5,000	CLU5021	502A
14A988	7,500	CU7521	752A	14A992	7,500	CLU7521	752A
14A859	10,000	CU1031	103A	14B834	10,000	CLU1031	103A
14A989	15,000	CU1531	153A	14A993	15,000	CLU1531	153A
14A858	25,000	CU2531	253A	14B835	25,000	CLU2531	253A
14A990	35,000	CU3531	353A	14A994	35,000	CLU3531	353A
14A857	50,000	CU5031	503A	14B836	50,000	CLU5031	503A
14A943	75,000	CU7531	753A	14A995	75,000	CLU7531	753A
14A856	10M	CU1041	104A	14B837	10M	CLU1041	104A
14A944	15M	CU1541	154A	14A996	15M	CLU1541	154A
14A855	25M	CU2541	254A	14B838	25M	CLU2541	254A
14A945	35M	CU3541	354A	14A997	35M	CLU3541	354A
14A854	5M	CU5041	504A	14B839	5M	CLU5041	504A
14A946	75M	CU7542	754B	14A998	75M	CLU7542	754B
14A853	1.0M	CU1052	105B	14B840	1.0M	CLU1052	105B
14A852	2.5M	CU2552	255B	14B841	2.5M	CLU2552	255B
14A851	5.0M	CU5052	505B	14B842	5.0M	CLU5052	505B

Your Choice Type CU-RV4NAYSK
 1-9 Ea. \$1.95 10-24 Ea. \$1.75 1-9 Ea. \$2.55 10-24 Ea. \$2.29
 25-49 Ea. \$1.70 50-99 Ea. \$1.62 25-49 Ea. \$2.24 50-99 Ea. \$2.12
 100-249 Ea. \$1.26 250 Up Ea. \$0.97 100-249 Ea. \$1.41 250 Up Ea. \$1.09



CRL-CONTROLS, HAMLIN SWITCHES

HAMLIN MAGNETIC REED SWITCHES

Hermetically sealed dry reed and mercury-wetted switches. May be actuated by permanent or electro-magnet. Unaffected by high or low temperature extremes or pressure. High sensitivity, rapid cycling rate, and compact size. Used in position indicators, counting instruments, flow meter, reed relays, limiting switches, computing instruments, etc. Actuating time: 1 millisecond or less. Life expectancy: dry reed 10 million operations; merc-wetted* 1 billion operations. Contacts: Form "A" (SPST-NO) or "C" (SPDT). Average wt. 1 oz.

Stock No.	Mfg. No.	SIZE	Each
19A7268	H-31-604	1/4" X 1/4" X 1/2"	\$0.30
19A7269	H-32-605	3/8" X 1/4" X 1"	.35
19A7270	H-33-606	1/2" X 1/4" X 3/4"	.30
19A7271	H-34-607	1/4" X 1/4" X 1"	.40

Stock No.	Manufacturers Number	OC Cont. Rating	Max. Amps	OC Max. Volts	Max. Cont. Resistance	DC Breakdown Voltage	Use Magnet	Cont. Contacts	Overall Length	Glass Length	Glass Dia.	Prices Each				
												1-24	25-99	100-999	1000-4999	5000 Up
19A7228	MMRR-2-185	3W	.010	28	200	250	H-31	SPST	2.000	.375	.090	\$ 1.84	\$ 1.31	\$ 1.05	\$ 0.95	\$0.70
19A7229	MINI-2-115	3W	.110	28	200	200	H-31	SPST	2.000	.500	.070	2.10	1.85	1.70	1.00	.60
19A7230	MINI-DT-125	1W	.010	10	200	200	H-31	SPDT	2.000	.500	.070	6.30	5.00	4.75	4.50	4.25
19A7231	MMRR-2-185	10W	.250	100	150	300	H-33	SPST	2.125	.560	.092	1.32	.95	.75	.69	.56
19A7234	MRG-DT-175	3W	.250	28	150	250	H-33	SPDT	2.125	.610	.130	4.20	3.00	2.40	2.25	1.80
19A7346	MLC-DT-186	3W	.11	28	500	250	H-33	SPDT	2.125	.610	.130	2.10	1.70	1.33	1.20	.90
19A7236	MSRR-2-185	10W	.500	28	100	300	H-33	SPST	2.250	.800	.090	1.58	1.28	1.00	.75	.60
19A7237	MSRR-2-185	10W	.500	200	100	300	H-33	SPST	2.250	.800	.090	1.15	.83	.66	.50	.35
19A7238	MSRR-2CD-155	3W	.500	200	200	300	H-33	SPST	2.250	.800	.090	1.32	1.12	1.06	.83	.56
19A7347	MLC-2-186	10W	.5	28	150	300	H-33	SPST	2.230	.800	.105	1.05	.70	.55	.25	.25
19A7242	MRR-2-185	10W	.500	200	100	300	H-33	SPST	2.250	.800	.130	1.15	.83	.66	.50	.35
19A7244	MRH-15-185	10W	.500	50	150	300	H-33	SPST	2.250	.800	.130	2.10	1.80	1.70	1.33	.90
19A7248	DRG-2-425	15W	1.0	250	.075	500	H-34	SPST	3.250	2.100	.218	.79	.56	.45	.35	.30
19A7249	DRR-1-425	15W	1.0	400	.060	500	H-34	SPST	3.250	2.100	.218	.89	.64	.51	.39	.31
19A7251	DRR-5-425	25W	1.0	1000	.060	1500	H-34	SPST	3.250	2.100	.218	1.58	1.35	1.10	1.00	.70
19A7252	DRT-5-425	50W	3.0	1000	.100	1500	H-34	SPST	3.250	2.100	.218	2.10	1.50	1.20	1.10	.90
19A7253	DRVT-10-658	50W	3.0	7500	.080	10000	H-34	SPST	3.250	2.100	.218	4.20	3.00	2.40	2.25	2.00
19A7257	DRVT-20-979	50W	3.0	17500	.100	20000	H-34	SPST	3.195	2.100	.218	12.60	11.00	10.20	7.98	6.00
19A7259	SRR-2-425	15W	1.0	400	.060	500	H-32	SPST	3.375	1.610	.195	.89	.64	.51	.39	.31
19A7348	DLC-DT-327	10W	.5	200	.100	350	H-32	SPDT	3.375	1.562	.218	1.32	1.12	1.06	.83	.56
19A7262	DRR-DTH-445	10W	.5	250	.075	1000	H-32	SPDT	3.375	1.562	.218	2.63	1.88	1.50	1.35	1.10
19A7263	DRT-DTH-445	20W	1.5	500	.150	1000	H-34	SPDT	3.375	1.562	.218	4.20	3.65	3.40	2.66	1.60
19A7266*	MRC-3-387	28W	1.0	100	.050	1000	H-33	SPST	3.250	.800	.130	4.20	3.00	2.90	2.50	1.75
19A7267*	HRC-1-535	50W	3.0	400	.050	1000	H-34	SPST	3.250	2.100	.218	2.10	1.50	1.20	1.00	1.00

* Indicates Mercury wetted.

REAR SEAT AUTO SPEAKER CONTROLS



For switching between dual speakers such as auto rear seat and front seat speakers; TV, radio, etc. Operates either speaker separately or both together.
 No. 19A7108. Centralab PK-300. EACH.....\$1.18
 No. 19A7187. Wired Fader Control Kit. For Intermixing front and rear speakers. Shpg. Wt. 3 oz. Net Each.....\$1.76

CENTRALAB RV4 HOT MOLDED POTENTIOMETERS



Model 12. Meets all requirements of MIL-R-94 specifications. Designed for long life and noise-free operation. Totally enclosed and sealed against moisture and dirt. Tolerance 50 ohm thru 500K ± 10% above 500K ± 20% Linear taper. Rated 2.25 watts at 70° C. Size 1 1/4" dia. x 3/8" deep.

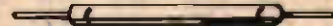
Stock No.	Ohms	Centralab No.	MIL RV4NAYSK	Stock No.	Ohms	Centralab No.	MIL RV4LAYSA
14A1221	50	HMS-50	500A	14A1193	50	HML-50	500A
14A1222	100	HMS-100	101A	14A1194	100	HML-100	101A
14A1223	150	HMS-150	151A	14A1195	150	HML-150	151A
14A1224	250	HMS-250	251A	14A1196	250	HML-250	251A
14A1225	350	HMS-350	351A	14A1197	350	HML-350	351A
14A1226	500	HMS-500	501A	14A1198	500	HML-500	501A
14A1227	750	HMS-750	751A	14A1199	750	HML-750	751A
14A1228	1000	HMS-1000	102A	14A1200	1000	HML-1000	102A
14A1229	1500	HMS-1500	152A	14A1201	1500	HML-1500	152A
14A1230	2500	HMS-2500	252A	14A1202	2500	HML-2500	252A
14A1231	3500	HMS-3500	352A	14A1203	3500	HML-3500	352A
14A1232	5000	HMS-5000	502A	14A1204	5000	HML-5000	502A
14A1233	7500	HMS-7500	752A	14A1205	7500	HML-7500	752A
14A1234	10K	HMS-10K	103A	14A1206	10K	HML-10K	103A
14A1235	15K	HMS-15K	153A	14A1207	15K	HML-15K	153A
14A1236	25K	HMS-25K	253A	14A1208	25K	HML-25K	253A
14A1237	35K	HMS-35K	353A	14A1209	35K	HML-35K	353A
14A1238	50K	HMS-50K	503A	14A1210	50K	HML-50K	503A
14A1239	75K	HMS-75K	753A	14A1211	75K	HML-75K	753A
14A1240	100K	HMS-100K	104A	14A1212	100K	HML-100K	104A
14A1241	150K	HMS-150K	154A	14A1213	150K	HML-150K	154A
14A1242	250K	HMS-250K	254A	14A1214	250K	HML-250K	254A
14A1243	350K	HMS-350K	354A	14A1215	350K	HML-350K	354A
14A1244	500K	HMS-500K	504A	14A1216	500K	HML-500K	504A
14A1245	750K	HMS-750K	754B	14A1217	750K	HML-750K	754B
14A1246	1 M	HMS-1 M	105B	14A1218	1 M	HML-1 M	105B
14A1247	2.5 M	HMS-2.5 M	255B	14A1219	2.5 M	HML-2.5 M	255B
14A1248	5 M	HMS-5 M	505B	14A1220	5 M	HML-5 M	505B

TYPE HMS has standard 3/8" bushing with 1/4" slotted shaft 2 1/2" long. Meets MIL designation RV4N.
 Your Choice 10-49 50-100 101-250 251 Up
 1-9 Each \$1.90 Each \$1.55 Each \$1.45 Each \$1.25 Each .92c

TYPE HML has 3/8" locking type bushing with slotted shaft 3/4" long. Meets MIL designation RV4L.
 Your Choice 10-49 50-100 101-250 251 Up
 1-9 Each \$2.10 Each \$1.80 Each \$1.50 Each \$1.30 Each .99c

MINIATURE MAGNETIC REED SWITCH

ACTUAL SIZE!



4 FOR \$1.95

Fantastic B-A special purchase. Would normally cost way over \$1.00 each. High sensitivity, small size. Only 1 3/4" long overall X 3/8" dia. Glass length 1 1/4". Use for all low current applications.
 No. 18A1476. Special, 4 For \$1.95

CENTRALAB 5-WATT WIRE-WOUND CONTROLS



Packs 5-watt capacity into a 2 watt size unit; linear taper, 1 1/2" dia. x 3/8" deep. Model WW has full round aluminum shaft 1/4" dia. x 3" long. Model WN has fingertip knurled, slotted shaft 1/4" dia. x 3/4" long. Linear taper. Breakdown, 900 V. AC rms to ground. WN or WW prefix indicates manufacturers number. Shpg. wt. 4 ozs.

Ohms	WW or WN	Ohms	WW or WN	Ohms	WW or WN	Ohms	WW or WN	Ohms	WW or WN
1	010	15	150	100	101	1500	152	15K	153
2	020	20	200	200	201	2000	202	20K	203
3	030	25	250	250	251	2500	252	25K	253
4	040	30	300	300	301	3000	302	30K	303
5	050	40	400	400	401	4000	402	40K	403
6	060	50	500	500	501	5000	502	50K	503
8	080	60	600	750	751	7500	752	75K	753
10	100	75	750	1000	102	10K	103	100K	104

Specify Stock No. 14M303 for WW. 3 inch shaft.
 Specify Stock No. 14M1099 for WN. 3/4" shaft.
 Values 1-9 Ea. 10-24 Ea. 25-49 Ea. 50-99 Ea. 100-249 Ea.
 thru 7500 ohms \$1.32 \$1.19 \$1.70 \$1.05 \$0.99
 10,000 thru 30,000 ohms 1.59 1.43 1.33 1.26 1.19
 40,000 and 50,000 ohms 2.01 1.81 1.68 1.59 1.51
 75,000 and 100,000 ohms 2.46 2.22 2.05 1.95 1.85



HOT MOLDED—5 WATT RV6 POTENTIOMETERS

Rated 5 watt at 70° C. meet specs of RV6 per MIL-R-94. 1/2" dia. 1/4" shafts. HNG shaft is 3/8" long. HLG is 3/4" long. Screwdriver slotted. HLG bushing is 1/2" long X 1/4" dia., with lock nut. HNG bushing is 1/4" long. 1/4" dia.

Stock No.	Ohms	CRL No.	MIL RV6LAYSA	Stock No.	Ohms	CRL No.	MIL RV6NAYSD
14A1179	100	HL6-100	101A	14A1249	100	HNG-100	101A
14A1180	250	HL6-250	251A	14A1250	250	HNG-250	251A
14A1181	500	HL6-500	501A	14A1251	500	HNG-500	501A
14A1182	1000	HL6-1000	102A	14A1252	1000	HNG-1000	102A
14A1183	2500	HL6-2500	252A	14A1253	2500	HNG-2500	252A
14A1184	5000	HL6-5000	502A	14A1254	5000	HNG-5000	502A
14A1185	10K	HL6-10K	103A	14A1255	10K	HNG-10K	103A
14A1186	25K	HL6-25K	253A	14A1256	25K	HNG-25K	253A
14A1187	50K	HL6-50K	503A	14A1257	50K	HNG-50K	503A
14A1188	100K	HL6-100K	104A	14A1258	100K	HNG-100K	104A
14A1189	150K	HL6-150K	154A	14A1259	150K	HNG-150K	154A
14A1190	250K	HL6-250K	254A	14A1260	250K	HNG-250K	254A
14A1191	500K	HL6-500K	504A	14A1261	500K	HNG-500K	504A
14A1192	1 Meg.	HL6-1 Meg.	105A	14A1262	1 Meg.	HNG-1 Meg.	105A

YOUR CHOICE EACH
 Type 1-9 10-49 50-99 100-250 251-500
 HL6 \$4.75 \$4.25 \$3.50 \$2.25 \$1.97
 HNG 4.50 4.00 3.25 2.10 1.85

MALLORY AND CENTRALAB SWITCHES

MALLORY SINGLE GANG ROTARY SWITCHES



Compact switches having wide application for use in all electronic equipment. Rating 500 V. breakdown; max. current 2 amp @ 300 VDC; 5 amp @ 6 VDC; .25 amp @ 300 VAC; 6 amp @ 6 VAC. 1/4" round shaft, 2" long, 3/8" dia. x 3/8" long brass threaded bushing with bar knob and mtg. hardware. All 30° index except * which are 20° Shpg. wt. 4 ozs. See Plates below.

Specify B-A Stock No. 19M7035 and Switch No. When Ordering.
NON-SHORTING — BREAK BEFORE MAKE

Mfg. No.	Poles	Positions	Base Dia.	1-4	5-9	10-24	25-49	50-99	100-499
3215J	1	5	1 1/4"	\$1.20	\$1.00	\$0.80	\$0.85	\$0.80	\$0.72
32112J	1	12	1 1/4"	1.20	1.00	.90	.85	.80	.72
3222J	2	2	1 1/4"	1.20	1.00	.90	.85	.80	.72
3223J	2	3	1 1/4"	1.20	1.00	.90	.85	.80	.72
3226J	2	6	1 1/4"	1.20	1.00	.90	.85	.80	.72
3234J	3	4	1 1/4"	1.24	1.03	.93	.88	.83	.74
3242J	4	2	1 1/4"	1.24	1.03	.93	.88	.83	.74
3243J	4	3	1 1/4"	1.24	1.03	.93	.88	.83	.74
32117J	1	17*	1 1/4"	1.83	1.52	1.37	1.30	1.22	1.10
3229J	2	9*	1 1/4"	1.83	1.52	1.37	1.30	1.22	1.10
3236J	3	6*	1 1/4"	1.93	1.81	1.45	1.37	1.29	1.16
3263J	6	3*	1 1/4"	1.93	1.81	1.45	1.37	1.29	1.16

SHORTING — MAKE BEFORE BREAK

Mfg. No.	Poles	Positions	Base Dia.	1-4	5-9	10-24	25-49	50-99	100-499
3115J	1	5	1 1/4"	1.20	1.00	.90	.85	.80	.72
31112J	1	12	1 1/4"	1.20	1.00	.90	.85	.80	.72
3123J	2	3	1 1/4"	1.20	1.00	.90	.85	.80	.72
3126J	2	6	1 1/4"	1.20	1.00	.90	.85	.80	.72
3143J	4	3	1 1/4"	1.24	1.03	.93	.88	.83	.74
31117J	1	17*	1 1/4"	1.83	1.52	1.37	1.30	1.22	1.10
3163J	6	3*	1 1/4"	1.93	1.81	1.45	1.37	1.29	1.16

*Have adjustable stops to prevent turning to unused contacts.

CERAMIC SECTION ROTARY

1 1/4" diameter, non-shorting, adjustable stops, 2 gang, 1/2" spacing. Rated .75 amp @ 300 VAC; 10 amps @ 6 VAC/DC. Use 30° dial plates below. Shpg. wt. 8 ozs.

Specify B-A Stock No. 19M7036 and Switch Number When Ordering

Mfg. No.	Gang	Pole	Positions	1-4	5-9	10-24	25-49	50-99	100-499
172C	1	1	10	\$2.77	\$2.31	\$2.08	\$1.97	\$1.85	\$1.66
173C*	1	2	5	2.77	2.31	2.08	1.87	1.85	1.66
174C*	1	3	3	2.77	2.31	2.08	1.87	1.85	1.66
176C	2	2	10	3.87	3.31	2.98	2.82	2.64	2.38
177C*	2	4	5	3.87	3.31	2.98	2.82	2.64	2.38
178C*	2	6	3	3.97	3.31	2.98	2.82	2.64	2.38
180C*	3	3	10	5.04	4.21	3.78	3.58	3.36	3.02
181C*	3	6	5	5.04	4.21	3.78	3.58	3.36	3.02

*Plus off position.

SWITCH DIAL PLATES

Aluminum figures etched on black background. 1 1/4" O.D. with 1/8" hole. For switches with 30° indexing except those marked * which are for switches with 20° indexing. Shpg. wt. 2 ozs.

Specify B-A Stock No. 19M7037 and Type When Ordering.

Type	Marked	Type	Marked	Type	Marked	Type	Marked	Type	Marked
372	1 to 2	377	1 to 7	382	1 to 12	387	Off 1 to 7	453*	1 to 3
373	1 to 3	378	1 to 8	383	Off 1 to 3	388	Off 1 to 8	456*	1 to 6
374	1 to 4	379	1 to 9	384	Off 1 to 4	389	Off 1 to 9	459*	1 to 9
375	1 to 5	380	1 to 10	385	Off 1 to 5	390	Off 1 to 10	467*	1 to 17
376	1 to 6	381	1 to 11	386	Off 1 to 6				

YOUR CHOICE EACH 20¢

MINIATURE PUSH-BUTTON

Non-locking for test panels, etc. Silver contacts on alloy springs. Rated 0.4 amp at 300 VDC and 220 VAC; 4 amps, 6 VDC. Bushing 3/8" x 32 x 3/8" long. Integral phenolic knob. With nut and washer.

Specify B-A Stock No. 19M7097 and Type No. When Ordering.

Type	Action	1-4 Ea.	5-9 Ea.	10-24 Ea.	25-49 Ea.	50-99 Ea.	100-499 Ea.
1011	SPST-NO	\$0.82	\$0.88	\$0.61	\$0.58	\$0.55	\$0.49
1012	SPST-NC	.82	.68	.61	.58	.55	.49
1013	SPDT	.90	.75	.68	.64	.60	.54
1014	DPST-NO	1.03	.86	.77	.73	.69	.62
1015	DPST-NC	1.03	.86	.77	.73	.69	.62
1016	DPDT	1.24	1.03	.93	.88	.83	.74

LEVITON APPLIANCE SWITCHES



- ① SINGLE POLE ROTARY For lamp and appliance repairs SPST switch. Rated 3 amp —125 volt; 1 amp—250 volt. 3/8" dia. shank, 3/8" long. Black phenolic knob, 6" wire leads. Wt. 2 ozs.
No. 19A7023. 574T. Each 39c 10 Lots, Each 31c
- ② 3 POSITION ROTARY Rated 3 amps at 125 volts. Bakelite case 1" dia. by 1 1/2" high. Shank 3/8" dia. by 3/8" long. Metal knob. 6" wire leads.
No. 19A7106. 582. Each 70c 10 Lots, Each 56c
- ③ 4 POSITION ROTARY For 3 light floor and desk lamps. Rated 6 amps at 125 volts. Round metal case and knob. 1 1/4" dia. x 1 1/4" behind panel. 3/8" long shank.
No. 19A7105. 683. Each 79c 10 Lots, Each 63c
- ④ SINGLE POLE PUSH-BUTTON SPST. Rated 3 amp at 125 volts. Bakelite case 1" long x 5/8" wide x 1 1/4" high. Shank 3/8" dia. by 3/8" long. 6" wire leads. Plastic 3/8" dia. push button. Shpg. wt. 2 ozs.
No. 19A7024. 575. Each 44c 10 Lots, Each 35c
- ⑤ FLUORESCENT LAMP STARTER SWITCH. Eliminates starter from circuit on single 15 to 40 W. lamps. 1 1/4" dia. by 1 1/4" high. Shank 3/8" dia. by 3/8". 6" wire leads. Phenolic push button. Shpg. wt. 2 oz.
No. 19A7025. 382. Each 77c 10 Lots, Each 62c

MINIATURE STEATITE PA2000 SERIES ROTARY



Small and compact. Silver plated spring brass clips and contacts; adjustable stop or continuous rotation; 30° indexing; 1/4" spacing between sections; 1/4" round shaft, 1 1/2" long. All non-shorting 1 1/2" bar knob and mounting hardware. All are non-shorting (break before make), except * which indicates "shorting" types. Rated 2.75 amp at 15 VDC; 230 millamps at 115 VAC. Use 30° dial plates shown in left column. Avg. shpg. wt. 6 ozs.

Specify B-A Stock No. 19M7098 and Switch No. When Ordering

Mfg. No.	Gang	Pole	Positions	1-4	5-9	10-24	25-49	50-99	100-249
2000*	1	1	12	\$3.04	\$2.53	\$2.28	\$2.17	\$2.02	\$1.82
2001	1	1	12	3.04	2.53	2.28	2.17	2.02	1.82
2002*	1	2	6	3.04	2.53	2.28	2.17	2.02	1.82
2003	1	2	6	3.04	2.53	2.28	2.17	2.02	1.82
2004*	2	2	12	4.29	3.58	3.22	3.07	2.86	2.56
2005	2	2	12	4.29	3.58	3.22	3.07	2.86	2.56
2006*	1	3	5	3.04	2.53	2.28	2.17	2.02	1.82
2007	1	3	5	3.04	2.53	2.28	2.17	2.02	1.82
2008*	3	3	12	5.48	4.57	4.11	3.92	3.65	3.28
2009	3	3	12	5.48	4.57	4.11	3.92	3.65	3.28
2010*	2	4	6	4.29	3.58	3.22	3.07	2.86	2.56
2011	2	4	6	4.29	3.58	3.22	3.07	2.86	2.56
2013	4	4	12	6.56	5.48	4.94	4.71	4.39	3.94
2015	1	5	3	3.04	2.53	2.28	2.17	2.02	1.82
2017	5	5	12	7.88	6.57	5.91	5.63	5.26	4.72
2019	1	6	2	3.04	2.53	2.28	2.17	2.02	1.82
2021	2	6	5	4.29	3.58	3.22	3.07	2.86	2.56
2023	3	6	6	5.48	4.57	4.11	3.92	3.65	3.28
2025	6	6	12	9.15	7.63	6.86	6.55	6.11	5.48
2027	4	8	6	6.58	5.48	4.94	4.71	4.39	3.94
2029	3	9	5	5.48	4.57	4.11	3.92	3.65	3.28
2031	2	10	3	4.29	3.58	3.22	3.07	2.86	2.56
2033	5	10	6	7.88	6.57	5.91	5.63	5.26	4.72
2035	2	12	2	4.29	3.58	3.22	3.07	2.86	2.56
2037	6	12	6	9.15	7.63	6.86	6.55	6.11	5.48
2039	3	15	3	6.20	5.17	4.65	4.43	4.14	3.72
2041	3	18	2	6.20	5.17	4.65	4.43	4.14	3.72
*2042	1	1	10	2.75	2.28	2.07	1.97	1.84	1.65

*2042 has 9 active contacts, all open in full CCW position and progressively picked up and shorted to common contact with CW rotation.

MINIATURE PHENOLIC PA1000 ROTARY

Same specifications as PA2000 above, except sections are Phenolic. Use 30° dial plates listed at left. All are non-shorting type.

Specify B-A Stock No. 19M7099 and Switch No. When Ordering.

Mfg. No.	Gang	Pole	Positions	1-4	5-9	10-24	25-49	50-99	100-249
1001	1	1	11	\$2.29	\$1.90	\$1.72	\$1.64	\$1.53	\$1.36
1003	1	2	5	2.29	1.90	1.72	1.64	1.53	1.36
1005	2	2	11	3.26	2.72	2.44	2.33	2.17	1.95
1007	1	3	3	2.29	1.90	1.72	1.64	1.53	1.36
1009	3	3	11	4.14	3.44	3.10	2.96	2.76	2.48
1011	1	4	2	2.29	1.90	1.72	1.64	1.53	1.36
1013	2	4	5	3.26	2.72	2.44	2.33	2.17	1.95
1019	2	6	3	3.26	2.72	2.44	2.33	2.17	1.95
1021	3	6	5	4.14	3.44	3.10	2.96	2.76	2.48
1025	2	8	2	3.26	2.72	2.44	2.33	2.17	1.95
1029	3	12	2	4.14	3.44	3.10	2.96	2.76	2.48

LEVER ACTION PHENOLIC SWITCHES



Space saving lever switches have many uses. Particularly adaptable to intercoms, PA systems, test instruments, broadcast, antenna interchange, speaker selection, etc. Two 6-32 thread mounting holes on 1 1/2" centers in switch front plate. Rating 1 1/2 amp @ 28 VDC; 230 millamps at 115 VAC (make and break, resistive load). 30° indexing. All non-shorting except * which is shorting. Complete with screws and black knob. Avg. shpg. wt. 4 ozs.

Specify B-A Stock No. 19M7103 and Switch No. When Ordering.

Mfg. No.	Poles	Position	Indexing	1-4	5-9	10-24	25-49	50-99	100-249
1452†	2	3	Positive	\$1.76	\$1.46	\$1.32	\$1.25	\$1.18	\$1.06
1454	2	3	Positive	1.76	1.46	1.32	1.25	1.18	1.06
1455	2	3	Spring Return	1.76	1.46	1.32	1.25	1.18	1.06
1467	2	3	Posit. & Sp. Return	1.78	1.46	1.32	1.25	1.18	1.06
1457	4	2	Spring Return	1.98	1.63	1.47	1.40	1.31	1.18
1458	4	2	Positive	1.96	1.63	1.47	1.40	1.31	1.18
1475*	1	3	Positive	1.76	1.46	1.32	1.25	1.18	1.06

*Primarily replacement part for the ganged switches in tube testers, etc.

CENTRALAB UNIVERSAL PHENOLIC SWITCHES

Rating 1.75A @ 24 VDC, 230 millamps @ 115 VAC. Bushing 3/8" x 32 thread, 3/8" long. With hardware. Shpg. wt. 6 ozs.

Carling ARROW-HART



STACKPOLE SWITCHES

CARLING TOGGLE SWITCHES



① AC-DC TOGGLE SWITCHES
 $\frac{1}{4}$ " bat handle toggle switch with $\frac{1}{8}$ " stem length. Dia. $\frac{1}{8}$ " x 32 thread.
 *has wire leads, all others have solder lug terminals.

Stock No.	Mfg. Type	Action	Amperes		1-24		25-49		50-99		100-499		500 Up	
			125 V.	250 V.	Each	Each	Each	Each	Each	Each	Each	Each		
19A7000	110-73	SPST	6	3	\$0.80	\$0.72	\$0.62	\$0.55	\$0.50					
19A7001	112-73	SPDT	3	1	1.02	.91	.78	.70	.63					
19A7002	216-73	DPST	3	1	1.40	1.26	1.07	.96	.87					
19A7003	316-73	DPDT	3	1	1.54	1.39	1.18	1.06	.95					
19A7004	111-16-73*	SPST	6	3	.91	.82	.70	.63	.56					

② HEAVY DUTY AC TOGGLE SWITCHES
 $\frac{1}{4}$ " bat handle. Metal covered bakelite base. Stem $\frac{1}{8}$ " long, $\frac{1}{8}$ " dia. x 32 thread. Solder lug terminals. **Center Off. (one side momentarily on; other side N.C. Solder jugs momentarily on. Center off. All $\frac{1}{4}$ " H.P.—115-230 V. A.C. Shpg. wt. 2 oz.

Stock No.	Mfg. Type	Action	Amperes		1-24		25-49		50-99		100-499		500 Up	
			125 V.	250 V.	Each	Each	Each	Each	Each	Each	Each	Each		
① 19A7005	2FA53-73	SPST	15	10	.84	.76	.64	.58	.52					
② 19A7006	2FB53-73	SPDT	15	10	.91	.82	.70	.63	.56					
③ 19A7007	2FC53-73	SPDT**	15	10	.91	.82	.70	.63	.56					
④ 19A7008	2GK50-73	DPST	15	10	1.26	1.13	.96	.87	.78					
⑤ 19A7009	2GL50-73	DPDT	15	10	1.54	1.39	1.18	1.06	.95					
⑥ 19A7010	2GM50-73	DPDT**	15	10	1.54	1.39	1.18	1.06	.95					
⑦ 19A7011	6FB53-73	SPDT†	15	10	1.23	1.10	.94	.84	.76					
⑧ 19A7082	6FC53-73	SPDT‡	15	10	1.23	1.10	.94	.84	.76					

③ HEAVY DUTY AC-DC TOGGLE SWITCHES
 $\frac{1}{4}$ " bat handle, $\frac{1}{8}$ " stem length—32 thread. Screw terminals. Wt. 3 oz. DK284-73 rated 1 HP—250 V; EK204-73 rated $1\frac{1}{2}$ HP—250 V.

Stock No.	Mfg. Type	Action	Amperes		1-24		25-49		50-99		100-499		500 Up	
			125 V.	250 V.	Each	Each	Each	Each	Each	Each	Each	Each		
19A7014	OK284-73	DPST	16	8	1.58	1.42	1.20	1.08	.98					
19A7015	EK204-73	DPST	20	10	2.63	2.36	2.01	1.81	1.63					

PUSH-PUSH AC-DC SWITCHES



Positive action push on, push again for off. For any application where a pushbutton is preferable. Stem $\frac{1}{8}$ " L. x $\frac{1}{8}$ " dia., body $1\frac{1}{2}$ " L x $\frac{3}{8}$ " W. depth behind panel $\frac{1}{2}$ ". Complete with mfg. nuts. Screw terminals. Shpg. wt. 3 oz.

Stock No.	Mfg. Type	Amperes		1-24		25-49		50-99		100-499		500 Up	
		125 V.	250 V.	Each	Each	Each	Each	Each	Each	Each	Each		
19A7016	110-SP	6	3	\$1.51	\$1.35	\$1.15	\$1.04						
19A7017	160-SP	10	5	1.86	1.67								

CARLING SPST MIDGET SWITCH



Type 125RB. 3 amps at 125 volts AC. Solder terminals. Threaded stem diameter $\frac{1}{8}$ ". Stem length $\frac{1}{4}$ ". Has bat handle length $\frac{3}{8}$ ". Body $\frac{1}{4}$ " L. x $\frac{1}{8}$ " W. With hex and knurled nuts. Wt. 2 oz.

Stock No.	1-24	Each	50-99	Each	100-499	Each	500 Up	Each
No. 19A7018		63c						
25-49		57c						
50-99		48c						
500 Up		39c						

KNIFE SWITCHES



Standard knife switches. Ideal for Radio, TV and electrical needs. Porcelain base. Rated 25 amps at 125 volts.

Stock No.	Type	Size	Each	10 Ea.
19A7019	SPST	1 x 1 $\frac{1}{2}$ "	\$0.33	\$0.29
19A7020	SPDT	1 x 2 $\frac{1}{2}$ "	.38	.32
19A7021	DPST	1 $\frac{1}{2}$ x 1 $\frac{3}{4}$ "	.45	.40
19A7022	DPDT	1 $\frac{1}{2}$ x 2 $\frac{1}{2}$ "	.56	.50

MOMENTARY PUSH-BUTTON SWITCH



Normally open. Ideal for signal bells, lights, buzzers, etc. Pearl button with a nickel plated outer ring. Screw terminals. Snap mounts in $\frac{5}{16}$ " dia. hole. Depth of shank $\frac{1}{2}$ ". Shpg. wt. 2 oz.
 No. 19A7026, 1-9 Ea. 50c 10-99 Ea. 45c 100 up Ea 41c

STACKPOLE SLIDE SWITCHES

WORLD'S LARGEST PRODUCER OF SLIDE SWITCHES



Low cost switches for use where a small size is needed. Contacts silver plated. Type "A". $\frac{1}{2}$ " wide x $1\frac{1}{8}$ " long with $1\frac{1}{4}$ " mtg. ctr.; Type "C" $1\frac{1}{2}$ " wide x 1.890 " long, $1\frac{1}{2}$ " mtg. ctr. Average shpg. wt. 3 ozs. All are positive action. UL and CSA listed.

Stock No.	Mfg. No.	Type	Action	Amps @ 125 V.			Prices Each			
				AC	DC	1-9	10-99	100-499	500-999	
19A7046	SS-26	A	SPST	4	1.0	\$0.32	\$0.25	\$0.146	\$0.096	
19A7047	SS-26.1	A	SPDT	4	1.0	.33	.26	.149	.09E	
19A7048	SS-50	A	DPDT	3	0.5	.35	.30	.164	.114	
19A7053	SS-12	C	4PDT	6	1.0	.72	.58	.364	.314	

ARROW-HART SUBMINIATURE SWITCHES



Only $\frac{1}{4}$ x $\frac{1}{2}$ " SPDT, or $\frac{1}{2}$ x $\frac{1}{2}$ " DPDT. Body $\frac{3}{16}$ " high, $\frac{1}{4}$ " dia. stem, $\frac{1}{4}$ " long. Stationary contacts gold plated coin silver. Terminals gold plated brass. Toggle switches - 5 amp @ 115 V. AC; push-button - 1 amp @ 115 V. AC. Mounting hardware supplied. TC, TS indicates toggle, PM indicates push-button.

Stock No.	Mfg. No.	Action	Prices Each			
			1-24	25-99	100-499	500 Up
19A7087	TS-3	SPDT	\$3.00	\$2.40	\$2.25	\$2.10
19A7085	TS-6	DPDT	3.90	3.12	2.93	2.73
19A7088	TC-3	SPDT-Center Off	3.00	2.40	2.25	2.10
19A7088	TC-6	DPDT-Center Off	3.90	3.12	2.93	2.73
19A7089	PM-3	SPDT-Mom. Contact	2.86	2.28	2.15	2.00
19A7090	PM-6	DPDT-Mom. Contact	3.51	2.81	2.63	2.48

ARROW-HART SWITCHES



① LIGHT DUTY TYPE AC-DC TOGGLE SWITCH
 Long life and dependability in electronic and fractional horsepower applications. Laminated phenolic sections - $\frac{1}{8}$ " long slotted sleeve ($\frac{1}{8}$ " dia. 32 threads per inch) with hex and knurled nut - nickel finish. Solder lug connections. UL listed. Bat handle. Shpg. wt. 2 ozs.

Stock No.	Arrow-Hart No.	Circuit	Amperes		Prices Each				
			125 V.	250 V.	1-24	25-49	50-99	100-499	500 Up
19A7060	20994LH	SPST	3	1	\$0.84	\$0.78	\$0.65	\$0.59	\$0.53
19A7061	21350EH	SPDT	3	1	1.05	.98	.81	.73	.65
19A7062	2900DCX	DPST	3	1	1.52	1.41	1.17	1.05	.93
19A7063	20905BX	DPDT	3	1	1.74	1.62	1.34	1.21	1.08

② STANDARD DUTY TYPE AC TOGGLE SWITCHES
 Slow make and break. Designed to offer high capacity on a small phenolic base. Exceptionally long life expectancy. Solder terminals. $\frac{1}{8}$ " sleeve length. *Center off; † $\frac{1}{4}$ HP 120-240 V. AC; ‡ $\frac{1}{2}$ HP 120-240 V. AC. Bat handle.

Stock No.	Arrow-Hart No.	Circuit	Amperes		Prices Each				
			125 V.	250 V.	1-24	25-49	50-99	100-499	500 Up
19A7066	*82601	SPST	15	10	\$0.79	\$0.73	\$0.61	\$0.549	\$0.489
19A7067	*82603	*SPDT	15	10	.90	.84	.70	.630	.561
19A7068	*82609	*DPDT	15	10	1.46	1.36	1.13	1.017	.905

③ STANDARD DUTY TYPE AC-DC TOGGLE SWITCHES — Bat Handle
 Quick make, quick break with wiping blade action designed for small motor use. Screw terminals, $\frac{1}{8}$ " sleeve length. *Rated 1 HP 125, 250 V. AC-DC.

Stock No.	Arrow-Hart No.	Circuit	Amperes		Prices Each				
			125 V.	250 V.	1-24	25-49	50-99	100-499	500 Up
19A7073	80607 BJ	SPST	12	6	\$1.52	\$1.41	\$1.17	\$1.053	\$0.937
19A7074	*80600 BJ	DPST	16	8	1.52	1.41	1.17	1.053	.937

④ EXTRA HEAVY DUTY AC-DC TOGGLE SWITCH — 3 POSITION
 On-Off-On. Positive off center. Lever can't be moved from one side through center without stopping. For heavy current circuits such as transmitters, amplifiers, etc. "Fast break" contacts. Screw terminals. $\frac{3}{4}$ HP 250 V. AC-DC. With 2 hex nuts. UL listed. Ball handle. $\frac{1}{8}$ " sleeve length. Shpg. wt. 2 ozs.

Stock No.	1-24	Each	50-99	Each	100-499	Each	500 Up	Each
19A7075		\$4.43		\$4.12		\$3.42		\$3.078
								\$2.738

⑤ MOMENTARY PUSH SWITCHES AC — LIGHT DUTY 1 AMP
 Slow make and break operated with light pressure—Laminated phenolic sections—slotted sleeve ($\frac{1}{8}$ " dia. 32 threads per inch)—hex and knurled nut assembled. *Two circuit (one circuit on—one circuit off, reverses when pushed). All have solder terminals. Shpg. wt. 2 ozs.

Stock No.	Arrow-Hart No.	Circuit	Sleeve Length	Button Color	Prices Each				
					1-24	25-49	50-99	100-499	500 Up
19A7076	3391-GLR	SPST-NO	$\frac{1}{8}$ "	Red	\$1.18	\$1.10	\$0.91	\$0.82	\$0.73
19A7077	3391-GL	SPST-NO	$\frac{1}{8}$ "	Black	1.18	1.10	.91	.82	.73
19A7078	*3392	SP2	$\frac{1}{8}$ "	Metal	1.16	1.08	.90	.81	.72
19A7079	*3392-AER	SP2	$\frac{1}{8}$ "	Red	1.44	1.34	1.11	1.00	.89
19A7080	*3392-AE	SP2	$\frac{1}{8}$ "	Black	1.44	1.34	1.11	1.00	.89

⑥ MOMENTARY PUSH SWITCHES AC-DC—STANDARD DUTY
 Normally open screw terminals. Rated 1 HP 125 or 250 V. AC-DC. With 2 hex nuts. UL listed. Wt. 2 ozs.

Stock No.	1-24	Each	50-99	Each	100-499	Each	500 Up	Each
19A7081		\$2.27		\$2.11		\$1.75		\$1.575
								\$1.402



⑦ & ⑧ MOMENTARY PUSH SWITCHES AC — LIGHT DUTY MIDGET SIZE
 Slow make and break. Molded phenolic base, slotted sleeve $\frac{1}{8}$ " long, $\frac{1}{8}$ " dia., 32 threads per inch. Hex and knurled nut assembled—brass nickel finish button. Solder lugs. M.O. is normally open; N.C. is normally closed. UL listed. Shpg. wt. 2 ozs. *Has phenolic snap-on button Fig. ⑨. All are 3 amp or 1/10 HP 120 V. AC.

Stock No.	Arrow-Hart No.	Circuit	Button Color	Prices Each				
				1-24	25-49	50-99	100-499	500 Up
19A7054	80511E	SPST-NO	Metal	\$0.57	\$0.53	\$0.44	\$0.396	\$0.352
19A7055	80511	SPST-NC	Metal	.57	.53	.44	.396	.352
19A7056	*80541ER	SPST-NO	Red	1.07	1.00	.83	.747	.665
19A7057	*80541E	SPST-NO	Black	1.07	1.00	.83	.747	.665

⑨ ROTARY POWER LOCK SWITCHES
 Lockswitch with key for use on power tools, appliances. Fits panels to $\frac{1}{2}$ ". Laminated phenolic sections. Hex and dress nuts, key, Solder lugs. $\frac{1}{8}$ " sleeve length. UL listed. Wt. 2 ozs.

Key Removable in Off Position only. 6 Amp—125 V, 3 Amp—250 V.

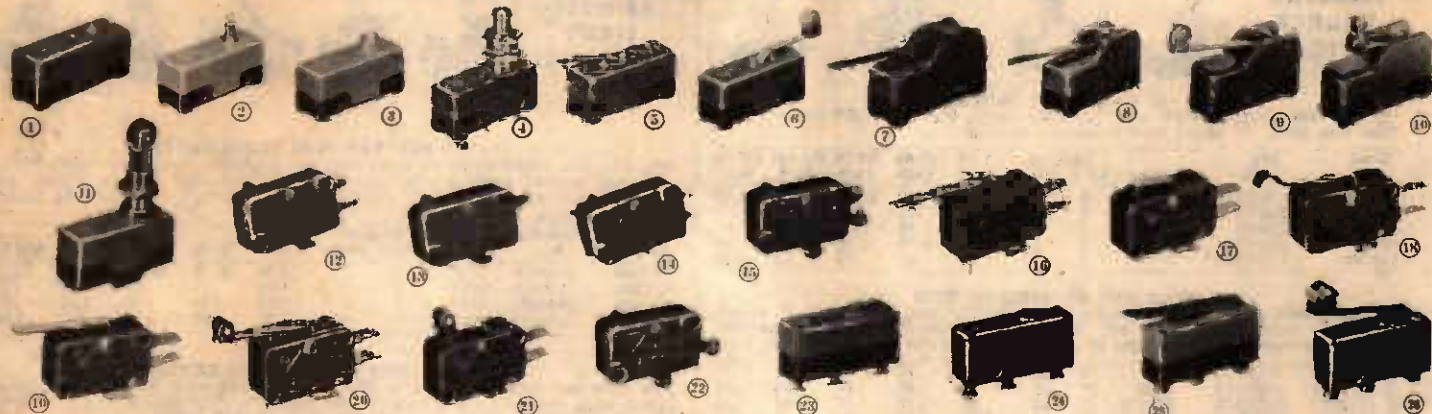
Stock No.	Arrow-Hart No.	Circuit	Prices Each			
			1-24	25-49	50-99	100-499
19A7058	1561L	SPST	\$2.17	\$2.02	\$1.68	\$1.51

Key Removable in Both Positions—3 amp—250 V.

Stock No.	1-24	Each
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P&B, LINEMASTER, GRAYHILL SWITCHES

POTTER & BRUMFIELD PRECISION SWITCHES



UL and CSA listed. Directly interchangeable with competitive types shown. Improved design provides longer life, precision action, trouble-free service. For detailed specifications request Potter & Brumfield Catalog B-A No. 16A1151—FREE.

MINIATURE PRECISION SWITCHES

AIM1. SPDT except 311-1 is SPST NO. Meets UL requirements for 15 amps—250 VAC, 1/2 HP 125/250 VAC.

Stock No.	Fig. No.	M1 Type	Micro. Equiv.	Oper. Force Ozs.	1-9 Each	10-19 Each	20-49 Each	50-99 Each
19A626	12	111-B	V3-1	6-14	\$1.10	\$0.99	\$0.88	\$0.77
19A627	12	111-1	V3-19	6-14	1.04	.94	.83	.73
19A629	14	111-2	V3-15	6-14	1.04	.94	.83	.73
19A631	13	311-1	V3-32	6-14	.96	.86	.77	.67
19A634	22	311-B	V3-23	6-14	1.00	.90	.80	.70
19B639	15	131-B	V3-601	6-14	1.50	1.35	1.20	1.05
19B678	17	117-6	V3-L-1-D8	14 Max.	1.05	.95	.84	.74
19B680	16	117-6-1	V3-L-2-D8	8 Max.	1.05	.95	.84	.74
19B681	18	117-6-2	V3-L-5-D8	8 Max.	1.05	.95	.84	.74
19B682	19	117-6-3	V3-L-6-D8	4 Max.	1.05	.95	.84	.74
19B683	20	118-6	V3-L-4-D8	8 Max.	1.25	1.13	1.00	.88
19A684	21	119-6	V3-L-3-D8	14 Max.	1.25	1.13	1.00	.88

AIM2. Low operating force—SPDT. Meets UL requirements for 1/2 HP 125 VAC, 10 amps 250 VAC.

19B640	15	171-B	V3-101	8 Max.	\$1.10	\$0.99	\$0.88	\$0.77
19B643	12	171-1	V3-119	8 Max.	1.04	.94	.83	.73

AI G2. SPDT 20 amps, 480 VAC; 2 HP 250 VAC; 10 amps 125 V when controlling tungsten filament lamp loads on AC circuits.

Stock No.	Fig. No.	G2 Type	Micro. Equiv.	Oper. Force Ozs.	1-9 Each	10-19 Each	20-49 Each	50-99 Each
19A615	1	111-8	BA-2R-A2	14-22	\$1.80	\$1.62	\$1.44	\$1.26
19A616	3	113-8	BA-2R-A2	14-22	2.25	2.03	1.80	1.58
19A617	4	114-1	BA-2RQ1	14-22	4.10	3.69	3.28	2.87
19A618	4	114-8	BA-2RQ1-A2	14-22	3.85	3.47	3.08	2.70
19A619	5	115-1	BA-2RL	9 Max.	2.25	2.03	1.80	1.58
19A620	5	115-8	BA-2RL-A2	9 Max.	2.10	1.89	1.68	1.47
19A622	6	116-8	BA-2RL-A2	9 Max.	2.65	2.39	2.12	1.86
19A623	7	117-8	BA-2RV-A2	2 1/2 Max.	2.30	2.07	1.84	1.61
19A624	9	118-1	BA-2RV2	2 1/2 Max.	3.10	2.79	2.48	2.17
19A625	9	118-8	BA-2RV2-A2	2 1/2 Max.	2.90	2.61	2.32	2.03

GENERAL PURPOSE SWITCHES

AI G1. SPDT. 15 amps—480 V AC; 1/2 HP 250 VAC.

Stock No.	Fig. No.	G1 Type	Micro. Equiv.	Oper. Force Ozs.	1-9 Each	10-19 Each	20-49 Each	50-99 Each
19A657	1	111-1	BZ-2R	9-13	\$1.67	\$1.50	\$1.33	\$1.17
19B658	2	112-1	BZ-2RS	9-13	2.15	1.94	1.72	1.51
19B659	3	113-1	BZ-2RD	9-13	2.20	1.98	1.76	1.54
19B660	4	114-1	BZ-2RQ1	9-13	3.75	3.38	3.00	2.63
19B661	5	115-1	BZ-2RL	5 Max.	1.90	1.71	1.52	1.33
19B662	6	116-1	BZ-2RL2	5 Max.	2.50	2.25	2.00	1.75
19A663	7	117-1	BZ-2RW80	2 1/2 Max.	2.15	1.94	1.72	1.51
19A664	8	117-1-3	BZ-2RW863	1 Max.	2.40	2.16	1.92	1.68
19B666	7	177-1	BZ-2RW84	1 Max.	2.15	1.94	1.72	1.51
19B667	9	119-1	BZ-2RW822	6 Max.	2.75	2.48	2.20	1.93
19B668	10	117-1-2	BZ-2RW825	8 Max.	3.25	2.93	2.60	2.28
19B669	9	118-1	BZ-2RW82	3 1/2 Max.	2.75	2.48	2.20	1.93
19B670	1	111-8	BZ-2R-A2	9-13	1.80	1.62	1.44	1.26
19B671	2	112-8	BZ-2RS-A2	9-13	2.30	2.07	1.84	1.61
19B672	3	113-8	BZ-2RD-A2	9-13	2.25	2.03	1.80	1.58
19B673	4	114-8	BZ-2RQ1-A2	9-13	3.85	3.47	3.08	2.70
19A674	11	114-8-1	BZ-2RQ18-A2	9-13	6.65	5.99	5.32	4.66
19B675	5	115-8	BZ-2RL-A2	5 Max.	2.10	1.89	1.68	1.47
19B676	6	116-8	BZ-2RL2-A2	5 Max.	2.65	2.39	2.12	1.86
19B677	7	117-8	BZ-2RV80-A2	2 1/2 Max.	2.20	1.98	1.76	1.54
19C614	9	119-8	BZ-2RW822-A2	6 Max.	2.80	2.52	2.24	1.96

SUB-MINIATURE PRECISION SWITCHES

AIM4. SPDT. Meets UL requirements. 10 amps, 250 VAC.

19D636	15	191-8	V3-26	7-12	\$1.35	\$1.22	\$1.08	\$0.95
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AI S1. SPDT. Meets UL requirements for 5 amps, 250 VAC.

19B646	24	111-1	ISM1	3-5	\$1.20	\$1.08	\$0.96	\$0.84
19B647	24	111-3	ISM1-T	3-5	1.20	1.08	.96	.84
19B648	24	131-1	ISM1	3-5	1.20	1.08	.96	.84
19A651	23	131-3	ISM1-T	3-5	1.20	1.08	.96	.84
19A7225	25	115-1-11	11ISM1	7 Max.	1.65	1.49	1.32	1.16
19A653	26	116-1-11	11ISM2	7 Max.	2.00	1.80	1.60	1.40
19A654	26	116-3-11	11ISM2-T	7 Max.	2.00	1.80	1.60	1.40
19A655	24	121-1	ISM3	3-5	1.20	1.08	.96	.84
19A656	24	141-1	ISM3	3-5	1.20	1.08	.96	.84

AI S5. SPDT. Meets UL requirements for 5 amps 250 VAC.

19B649	23	151-1	ISM23	3-5	\$1.45	\$1.31	\$1.16	\$1.02
19B650	24	161-1	ISM23	3-5	1.70	1.53	1.36	1.19

JBT SUB-MINIATURE SWITCHES

Use where miniaturized equipment requires a switch of the smallest size, with the trouble-free performance of standard size switches. UL and CSA rated 5 amps inductive load (7.5 pf) at 125 VAC. Toggle types have chrome plated bat handle 4" long, all have 1/4" diameter bushings. Depth behind bushing is .5" for SP or DP, .57" for 3P or 4P. Weights only 19 oz. to .32 oz. Momentary.



TOGGLE SWITCHES

Stock No.	JBT No.	Action	Panel Space	Prices Each		
				1-9	10-29	30-99 100 Up
19A7351	JBT-121	SPDT Center Off	26 X 5"	\$1.95	\$1.43	\$1.30 \$1.14
19A7352	JMT-123	SPDT 2 Position	26 X 5"	1.65	1.21	1.10 .96
19A7353	JMT-126	SPDT 2 Position	26 X 5"	1.95	1.43	1.30 1.14
19A7354	JMT-221	DPDT Center Off	45 X 5"	2.55	1.87	1.70 1.48
19A7355	JMT-223	DPDT 2 Position	45 X 5"	2.15	1.58	1.43 1.26
19A7356	JMT-321	3PDT Center Off	65 X 5"	4.25	3.12	2.84 2.48
19A7357	JMT-323	3PDT 2 Position	65 X 5"	3.85	2.82	2.57 2.24
19A7358	JMT-421	4PDT Center Off	83 X 5"	5.45	4.00	3.64 3.18
19A7359	JMT-423	4PDT 2 Position	83 X 5"	4.85	3.56	3.24 2.83

PUSH-BUTTON SWITCHES

Have .375" diameter natural anodized aluminum knobs .31" long. Depth behind bushing is .795" PB123 id push to make, push again to reverse PB126 is momentary action either NO or NC depending on how you wire it.

19A7360	PB-123	SPDT	26 X 5"	1.95	1.47	1.30 1.23
19A7361	PB-126	SPDT	26 X 5"	1.95	1.47	1.30 1.23

EXTRA TINY PUSH-BUTTON SWITCH

SPST normally open, momentary contact. For all sorts of miniature AC or battery powered DC devices. Molded insulated housing and red button. Solder terminals. Really small, only 3/8" dia. x 1" long overall. Mounts in 1/4" hole. Top quality import at less than 1/2 usual cost. Wt. 2 oz.

No. 19A721D	49c	10 Lots. Each	39c
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LINEMASTER TOP QUALITY FOOT SWITCHES



① Model T51-S "Treadlite." Compact, rugged treadle switch. SPDT momentary contacts rated 7 amps at 125-250 VAC, 1/2 HP 125 VAC. Has heavy rubber tread and skidproof base pad. Durable black finish. Size 3 1/2 x 2 3/4 x 1 1/2". Shpg. wt. 7 ozs. No. 19A7091. 1-9 Ea. \$2.95 10-19 Ea. \$2.66 20-49 Ea. \$2.36

② Model 491-S "Compact." Lightweight momentary contact switch with SPDT contacts rated 10 amps at 125 VAC, 1/2 HP 115 VAC. Has steel housing, black wrinkle finish, skid-proof base. Size 2 7/8 x 2 1/4 x 1 1/8". Wt. 8 ozs. No. 19A7092. 1-9 Ea. \$3.60 10-19 Ea. \$3.24 20-49 Ea. \$2.88

③ Model 632-S "Clipper." Momentary contact heavy duty switch. SPDT contacts take 20 amps at 125-250 VAC, 1 HP 115-230 VAC. Cast iron housing has anti-skid pad, black wrinkle finish, mtg. holes. Size 4 1/2 x 3 1/4 x 1 1/2". Shpg. wt. 2 1/2 lbs. No. 19A7093. 1-9 Ea. \$8.50 10-19 Ea. \$7.65 20-49 Ea. \$6.80

④ Model 632-O. As above, but maintains contact until again actuated. Wt. 2 1/2 lbs. No. 19A7094. 1-9 Ea. \$11.25 10-19 Ea. \$10.13 20-49 Ea. \$9.00

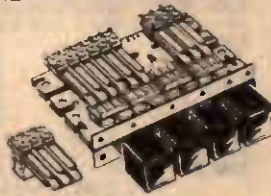
⑤ Model L-2-S Lektra-Lock. Teeter-totter principle. Mechanical interlock prevents both sides being operated at same time. Each side SPDT momentary. When pressure is released, switch returns to normal. May be wired normally open or normally closed on each side. 15 A. 125-250 VAC. Black wrinkle metal housing. 5 1/2 x 2 1/4 x 1 1/4". Wt. 10 ozs. No. 19A7095. 1-9 Ea. \$5.90 10-19 Ea. \$5.31 20-49 Ea. \$4.72

⑥ Model 121-S Junior Footswitch. An ideal unit for office machines and shop equipment. Light pressure required. Popular for knee operation. Momentary SPDT, 15 amp 125-250 VAC. Aluminum housing 5 1/2 x 3 1/4 x 1 1/4". Wt. 1 lb. No. 19A7096. 1-9 Ea. \$8.70 10-19 Ea. \$7.83 20-49 Ea. \$6.96

SWITCHCRAFT SWITCHES

SERIES 35000 "MULTI-SWITCH" NON-ILLUMINATED FRAMES

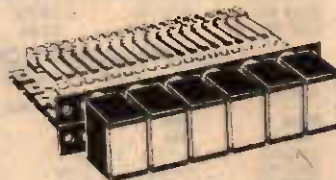
Mount on panels up to 1/8" thick—permits SPST to 6PDT switching in 8 sq. in. for each push-button. Push-buttons are 5/8" center to center. Narrow rectangular shape permits stacking in parallel rows on 3/4" centers. 2-5/16" depth behind panel. Has interlock function: actuating a button restores to normal the button previously actuated. Lockout feature prevents operation of more than one button at a time. These numbers cover basic frame only. Order switch stacks, solenoid release, etc., from listings below to complete your switch.



Stock No.	Switchcraft Part No.	No. of Stations	Prices Each			
			1-9	10-24	25-49	50-99
19A7118	35021	2	\$5.53	\$5.10	\$4.88	\$4.25
19A7119	35041	4	7.80	7.20	6.60	6.00
19A7120	35061	6	10.40	9.60	8.80	8.00
19A7121	35081	8	13.00	12.00	11.00	10.00
19A7122	35101	10	15.60	14.40	13.20	12.00
19A7123	35121	12	18.20	16.80	15.40	14.00

SERIES 37000 "MULTI-SWITCH" SINGLE LAMP ILLUMINATED FRAMES

Identical in switching functions and characteristics to non-illuminated Series 35000, but feature large rectangular shaped push-buttons each of which serves as a panel indicator light which actuates up to 6 PDT switching. Push-buttons with large transparent clear display screen and white legend insert. Use one switch stack H83P for each button for lighting in either "in" or "out" position. H83P provides "rear of switch" wiring for all lighting functions including continuous lighting of bulbs in all switch positions, but if "rear of switch" wiring is not required the socket terminals may be directly connected to a power source for continuous lighting of any bulb. A single 6 V. or 28 V. lamp can be used at each station. Use 327 and 328 lamp shown on page 133.



Stock No.	Switchcraft Part No.	No. of Stations	Prices Each			
			1-9	10-24	25-49	50-99
19A7124	37021	2	\$7.74	\$7.14	\$6.55	\$5.95
19A7125	37041	4	12.55	11.58	10.62	9.65
19A7126	37061	6	17.36	16.02	14.69	13.35
19A7127	37081	8	22.49	20.76	19.03	17.30
19A7128	37101	10	27.30	25.20	23.10	21.00
19A7129	37121	12	32.11	29.64	27.17	24.70

SWITCH STACKS

For 35000, 37000. Series 80P. Cross-bar welded palladium contacts. Rated 3 amps, 300 watts max., AC non-inductive load. *H-83P lamp circuit switch stack for rear-of-frame wiring.



Stock No.	Switchcraft Part No.	Circuits	Prices Each			
			1-9	10-24	25-49	50-99
19A7130	81P	1-A	\$0.52	\$0.48	\$0.44	\$0.40
19A7131	82P	1-B	.52	.48	.44	.40
19A7132	83P	1-C	.68	.63	.58	.53
19A7133	83PD	1-D	.78	.72	.66	.60
19A7134	H-83P	*	.94	.87	.80	.73

SERIES NJ SOLENOID RELEASE

A simple solenoid assembly which can be added to the end of a standard Series 35000 or 37000 frame to provide electrical release of activated stations. For 115 VAC.

No. 19A7141 Switchcraft Part No. NJ-1. 1-9 Each \$6.50
10-24 Ea. \$6.00 25-49 Ea. \$5.50 50-99 Ea. \$5.00

HOW TO ORDER "MULTI-SWITCH" SWITCHES

Determine part number of frame or complete switch.

1. Illuminated or non-illuminated.
2. Number of stations.
3. Function of stations, select proper switch stacks or proper type of completed switch.
4. Type of illumination determines whether a set of contacts, or a switch stack will be required for turn "off" or "on" of bulbs.

SWITCH FUNCTIONS



Switchcraft Multi-Switches are also available in non-lock, all lock, push-to-lock and push-to-release types with a wide variation of types of knobs, colors, legends, etc. All types of "Multi-Switches" not shown here are available from B-A on special order. Ask for No. 16A1190 Switchcraft Catalog FREE to help you in your selection.

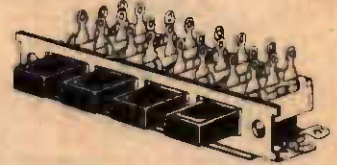
SWITCHCRAFT BOX SWITCHES

Miniature momentary push-button switch 1/4" sq. Depth 1 1/4" max. behind panel. Molded plastic body. Snap-in front panel mounting in .615" sq. hole. 1/4" button stroke. Rated 250 MA, 30 watts max. AC.

Stock No.	Mfg. No.	Button	Contacts	Prices Each				
				1-24	25-49	50-99	100-249	250-499
19A7109	BX-01-1	Red	SPST-NO	\$2.07	\$1.90	\$1.73	\$1.38	\$1.31
19A7110	BX-02-1	Black	SPST-NO	2.07	1.90	1.73	1.38	1.31
19A7334	BX-03-1	Green	SPST-NO	2.07	1.90	1.73	1.38	1.31
19A7335	BX-05-1	White	SPST-NO	2.07	1.90	1.73	1.38	1.31
19A7336	BX-01-3	Red	SPDT	2.16	1.98	1.80	1.44	1.37
19A7337	BX-02-3	Black	SPDT	2.16	1.98	1.80	1.44	1.37
19A7338	BX-03-3	Green	SPDT	2.16	1.98	1.80	1.44	1.37
19A7339	BX-05-3	White	SPDT	2.16	1.98	1.80	1.44	1.37
19A7111	BX-01-6	Red	DPDT	2.37	2.17	1.98	1.58	1.50
19A7340	BX-02-6	Black	DPDT	2.37	2.17	1.98	1.58	1.50
19A7341	BX-03-6	Green	DPDT	2.37	2.17	1.98	1.58	1.50
19A7342	BX-05-6	White	DPDT	2.37	2.17	1.98	1.58	1.50

SERIES 65000 DW "MULTI-SWITCH"

DW (doublewipe) contacts rated at 3 amps AC, .5 amp DC, 125 volt non-inductive load. Push-buttons are on 3/4" centers, overall height is 3/4". 2C assemblies (suffix No. 206) extend 1/4" behind panel. 4C assemblies (suffix No. 212) extend 1 1/4". Interlock function returns any button to "out" position when any other button is pushed. Lock-out prevents operation of more than one button at a time. All Series 65000 DW switches are completely assembled and tested at the factory.



2C ASSEMBLIES (2PDT)

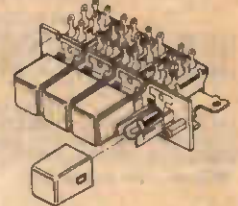
Stock No.	Switchcraft Part No.	No. of Stations	Prices Each			
			1-9	10-24	25-49	50-99
19A7135	65021K-206	2	\$2.24	\$1.68	\$1.54	\$1.40
19A7136	65041K-206	4	4.00	3.00	2.75	2.50
19A7137	65061K-206	6	5.76	4.32	3.96	3.60
19A7138	65081K-206	8	7.52	5.64	5.17	4.70
19A7139	65101K-206	10	9.24	6.93	6.35	5.78
19A7140	65121K-206	12	11.00	8.25	7.56	6.88

4C ASSEMBLIES (4PDT)

Stock No.	Switchcraft Part No.	No. of Stations	Prices Each			
			1-9	10-24	25-49	50-99
19A7322	65021K-212	2	\$2.64	\$1.98	\$1.82	\$1.65
19A7323	65041K-212	4	4.80	3.60	3.30	3.00
19A7324	65061K-212	6	6.96	5.22	4.79	4.35
19A7325	65081K-212	8	9.12	6.84	6.27	5.70
19A7326	65101K-212	10	11.24	8.43	7.73	7.03
19A7327	65121K-212	12	13.40	10.05	9.21	8.38

SERIES 67000 ILLUMINATED "MULTI-SWITCH"

Same quality construction and reliable switching functions as Series 65000. Has large square white push-buttons for brilliant evenly diffused lighting. Snap-off buttons allow bulb replacement from front of switch. A single 6 volt (32B) or 28 volt (327) lamp, not furnished, is used for each button. See lamp listing on page 133. Overall height is 1 1/4". Depth behind panel is 2 3/4". Two 6/32 screws required for mounting. 4C switch contacts on each station.



Stock No.	Switchcraft Part No.	No. of Stations	Prices Each			
			1-9	10-24	25-49	50-99
19A7328	67021K-512	2	\$3.36	\$2.52	\$2.31	\$2.10
19A7329	67041K-512	4	6.26	4.62	4.24	3.85
19A7330	67061K-512	6	8.96	6.72	6.16	5.60
19A7331	67081K-512	8	11.76	8.82	8.09	7.35
19A7332	67101K-512	10	14.56	10.92	10.01	9.10
19A7333	67121K-512	12	17.36	13.02	11.94	10.85

SOLENOID RELEASE—DW SERIES

Solenoid assemblies that can be added on the end of a Series 65000, 68000, 67000, 70000 DW "Multi-Switch" switch with interlock function in switches having 1 to 12 stations. Operates from 115 VAC Solenoid assembly, mounting hardware, screws and instruction sheet furnished.



No. 19A7321. Switchcraft Part No. DW-1.
1-9 Each \$4.23 10-24 Each \$3.90 25-49 Each \$3.58 50-99 Each \$3.25

SWITCHCRAFT LEV-R SWITCHES

Compact lever-action switches. Silver contacts rated at 3 amps AC, non-inductive load. Length 2 1/4" behind panel, width 3/8". Require 1/2" mtg. hole. I.N.D. center position off.



TWO POSITION TYPES

Stock Numbers	Spring Return	Locking Type	Mfg. No.	Action	Schematic Circuit		Prices Each			
					Pos. 1	Pos. 2	1-24	25-49	50-99	100-249
19A7167	19A7175	3001	SPST-NO	1-A	\$1.44	\$1.32	\$1.20	\$0.96		
19A7168	19A7176	3003	SPDT	1-C	1.71	1.57	1.43	1.14		
19A7169	19A7177	3004	DPST-NO	2-A	1.85	1.71	1.55	1.24		
19A7171	19A7179	3006	DPDT	2-C	2.07	1.90	1.73	1.38		
19A7223	19A7224	3006D	SPDT	ID	2.22	2.04	1.85	1.48		

THREE POSITION TYPES

Stock No.	Mfg. No.	Action	Prices Each				
			1-24	25-49	50-99	100-249	
19A7172	19A7180	3033 SPDT-ND	1-C†	\$1.86	\$1.71	\$1.55	\$1.24
19A7173	19A7181	3036 SPDT Ea. Sec.	1-C	2.43	2.23	2.03	1.62
19A7174	19A7182	3037 SPOT-ND Ea. Sec.	1-C†	2.22	2.04	1.85	1.48

SWITCHCRAFT "TINY SWITCH" & "LITTEL-SWITCHES"

MOMENTARY MINIATURE PUSH-BUTTON SWITCHES
"Littel" 200 Series mounts in 3/8" hole. Black button.
"Tiny" 950 Series mounts in 1/4" hole. Red button.



Stock No.	Type	Action	Prices Each			
			1-24	25-49	50-99	100-249
19A7038	201	SPST-NO	\$0.63	\$0.58	\$0.53	\$0.42
19A7039	202	SPST-NC	.63	.58	.53	.42
19A7040	203	SPDT	.75	.69	.63	.50
19A7043	951	SPST-NO	.63	.58	.53	.42
19A7044	952	SPST-NC	.63	.58	.53	.42
19A7045	953	SPDT	.75	.69	.63	.50

"BUTTON SWITCH" SWITCHES

SMALL MOMENTARY PUSH-BUTTON SWITCHES
Metal housing. Mounts in 3/8" hole. Rated 250 MA AC.



Stock No.	Type	Action	Prices Each			
			1-24	25-49	50-99	100-249
19A7041	903-Red	SPDT	\$0.93	\$0.85	\$0.78	\$0.62
19A7042	913-Black	SPDT	.93	.85	.78	.62

SWITCHCRAFT SWITCHES RELAYS SOLENOIDS

SWITCHCRAFT SERIES PL "PUSH-LITE" SWITCHES



"Push-Lite" is the first completely enclosed, lighted pushbutton switch which features long-life, highly-reliable leaf-spring switching. Pushbutton color supplied is white, other colors listed at right. Molded crossbar palladium contacts rated at 2 amps, 200 watts, max., A.C. non-inductive load. Mount with clamp-type bracket, no screws, washers or nuts needed. (A) Flange mounting requires 1" X .875" panel cutout; (B) barrier mounting requires 1-3/16" X .875" panel cutout. Can be mounted in vertical or horizontal rows and in matrices. Depth behind panel only 1 1/4". "Push-Lite" switch accepts standard T-1 1/4 flange base lamps (not furnished with switch) in either 8V type 328 or 28V type 327 listed on page 133. Specify one lamp for single lamp type or two lamps of twin-lamp type when redundant or split-face lighting is required. Barriers and colored filter snap-inserts listed at right.

MOMENTARY ACTION—SINGLE LAMP

Black Housing		Grey Housing		*Sche-	1-24	25-49	50-99	100-249
Stk. No.	Mfg. No.	Stk. No.	Mfg. No.	Action	Each	Each	Each	Each
19A7297	PL-1032-05	19A7300	PL-4032-05	SPDT 1-C	\$5.55	\$5.09	\$4.63	\$3.70
19A7298	PL-1062-05	19A7301	PL-4062-05	DPDT 2-C	5.70	5.23	4.75	3.80
19A7299	PL-1122-05	19A7302	PL-4122-05	4PDT 4-C	6.15	5.64	5.13	4.10

MOMENTARY ACTION—TWIN LAMP

Stk. No.	Mfg. No.	Stk. No.	Mfg. No.	Action	1-C	2-C	4-C	
19A7303	PL-2032-05	19A7306	PL-5032-05	SPDT	5.70	5.23	4.75	3.80
19A7304	PL-2062-05	19A7307	PL-5062-05	DPDT	5.85	5.36	4.88	3.90
19A7305	PL-2122-05	19A7308	PL-5122-05	4PDT	6.30	5.78	5.25	4.20

PUSH-LOCK/PUSH-RELEASE—SINGLE LAMP

Stk. No.	Mfg. No.	Stk. No.	Mfg. No.	Action	1-C	2-C	4-C	
19A7309	PL-1037-05	19A7312	PL-4037-05	SPDT	5.85	5.36	4.88	3.90
19A7310	PL-1067-05	19A7313	PL-4067-05	DPDT	6.00	5.50	5.00	4.00
19A7311	PL-1127-05	19A7314	PL-4127-05	4PDT	6.45	5.93	5.38	4.30

PUSH-LOCK/PUSH-RELEASE—TWIN LAMP

Stk. No.	Mfg. No.	Stk. No.	Mfg. No.	Action	1-C	2-C	4-C	
19A7315	PL-2037-05	19A7318	PL-5037-05	SPDT	6.45	5.91	5.38	4.30
19A7316	PL-2067-05	19A7319	PL-5067-05	DPDT	6.60	6.05	5.50	4.40
19A7317	PL-2127-05	19A7320	PL-5127-05	4PDT	7.05	6.46	5.88	4.70

*Schematics are on page 119.

SWITCHCRAFT "PL" INDICATORS

PL Indicator lights perfectly match Push-Lite switches in appearance, but function only as a pilot light. Use the same colored push buttons, color filters, light dividers, mounting barriers and lamp adapters as listed for Push-Lite switches. Supplied with white push buttons, less lamps. Mounting dimensions same as Push-Lite switches. Combination lamp retainer uses either 1 or 2 lamps.

Stk. No.	Mfg. No.	Color	1-24	25-49	50-99	100-249
19A7343	PL-9105	Black	\$1.50	\$1.38	\$1.25	\$1.00
19A7344	PL-9205	Grey	1.50	1.38	1.25	1.00

No. 37A3367. CHASSIS PUNCH for PL 1" X .875" Each \$25.00



ALLIED CONTROL RELAYS

T154 OC Relays. Miniature enclosed type, 1 amp 115 VAC contacts.

Stk. No.	Mfg. No.	Volts	1-9 Ea.	10-49 Ea.	50-99 Ea.	100 Up Ea.
DPDT (Use 30055-1 Socket) 1 1/2 x 1 1/2" H.						
19A1772	T154-2C	6 DC	\$3.25	\$2.93	\$2.44	\$2.28
19A1773	T154-2C	12 DC	3.26	2.93	2.44	2.28
19A1774	T154-2C	24 DC	3.26	2.93	2.44	2.28
19A1775	T154-2C	48 DC	3.25	2.93	2.44	2.28
19A1776	T154-2C	115 DC	4.95	4.45	3.71	3.46
19A1777	30055-1 Socket for 2C		60	.65	.45	.43

Stk. No.	Mfg. No.	Volts	1-9 Ea.	10-49 Ea.	50-99 Ea.	100 Up Ea.
4PDT (Use 30055-2 Socket) 1 1/2 x 1 1/2" H.						
19A1778	T154-4C	6 DC	\$3.65	\$3.29	\$2.74	\$2.56
19A1779	T154-4C	12 DC	3.65	3.29	2.74	2.56
19A1780	T154-4C	24 DC	3.65	3.29	2.74	2.56
19A1781	T154-4C	48 DC	3.65	3.29	2.74	2.56
19A1782	T154-4C	115 DC	5.33	4.80	3.99	3.73
19A1783	30055-2 Socket for 4C		.80	.73	.60	.57
19A1841	30055-8 Socket for 4C with longer center terminals.		.80	.73	.60	.57

BO Series Power Types. DPDT heavy duty power relay. 15 amp. 1 1/2 x 1 1/2 x 1 1/2" H.

Stk. No.	Mfg. No.	AC	Max. Stroke	*Max. Pull Lbs.	L.	W.	H.
19A1784	BD-6A	6 AC	5/8	4.5	1 1/2	1 1/2	1 1/2
19A1785	BO-6A	24 AC	5/8	4.69	1 1/2	1 1/2	1 1/2
19A1786	BO-6A	115 AC	5/8	4.69	1 1/2	1 1/2	1 1/2



801-821-812-813



860

CONTROLS COMPANY CONSTANT DUTY SOLENOIDS

Type 801, 812, 813, and 821 are heavy duty solenoids of superior quality for operating valves, clutches, switches, interlocks and mechanical controls. Features "double T" plunger design, moisture proof coil molded in Epoxy plastic, screw terminals. Type 860. Compact unit where a small size is required. *Maximum pull pounds shown at 1/8" stroke.

Stock No.	Mfg. No.	AC Volts	Max. Stroke	*Max. Pull Lbs.	L.	W.	H.	Prices Each					
								1-24	25-49	50-99	100-249	250-499	500-999
19A5000	801-101-2	115	5/8	4.5	1 1/2	1 1/2	1 1/2	\$3.90	\$3.40	\$3.20	\$3.05	\$2.85	\$2.35
19A5001	812-101-2	115	1 1/8	12	2 1/2	1 1/2	2	5.15	4.60	4.40	4.10	3.55	3.30
19A5002	813-101-2	115	1 1/8	15	2 1/2	2 1/4	2	6.00	5.20	4.85	4.55	3.80	3.50
19A5003	813-103-2	220	1 1/8	15	2 1/2	2 1/4	2	6.00	5.20	4.85	4.55	3.80	3.50
19A5004	821-101-2	115	1 1/8	29	2 7/8	2 3/8	2 1/4	7.85	6.80	6.20	5.80	4.85	4.50
19A5005	821-103-2	220	1 1/8	29	2 7/8	2 3/8	2 1/4	7.65	6.80	6.20	5.80	4.85	4.50
19A5010	860-201-3	115	1/2	.5	1 1/2	3/4	1 1/2	2.35	2.30	2.00	1.90	1.65	1.45

SWITCHCRAFT PUSHBUTTONS

Series PL-500. Colored pushbuttons are important elements of the "Push-Lite" Switch. All pushbuttons have a lusterless matte finish to eliminate reflective glare.

Stock No.	Mfg. No.	Color	1-24	25-49	50-99	100-249
19A7274	PL-501	Red	\$0.15	\$0.14	\$0.13	\$0.10
19A7275	PL-503	Green	.15	.14	.13	.10
19A7276	PL-504	Blue	.15	.14	.13	.10
19A7277	PL-505	White	.15	.14	.13	.10
19A7278	PL-508	Yellow	.15	.14	.13	.10
19A7279	PL-512	Clear	.15	.14	.13	.10
19A7280	PL-513	Amber	.15	.14	.13	.10

SWITCHCRAFT MOUNTING BARRIERS

Barriers, molded of plastic, separate "Push-Lite" switches and prevent accidental operation of adjacent switches. Series PL-100 is an end barrier. One is required when switches are adjacently mounted; two are required when switches are individually mounted. Series PL-200 is a center barrier. Two are required between switches when adjacently mounted.

Stock No.	Mfg. No.	Description	1-24	25-49	50-99	100-249
19A7293	PL-102	End barrier—black	\$0.09	\$0.08	\$0.075	\$0.06
19A7294	PL-111	End barrier—grey	.09	.08	.075	.06
19A7295	PL-202	Center barrier—black	.09	.08	.075	.06
19A7296	PL-211	Center barrier—grey	.09	.08	.075	.06

SWITCHCRAFT LIGHT DIVIDER

Used in the standard pushbutton to separate the lighting from twin lamps

Stock No.	Mfg. No.	1-24 Ea.	25-49 Ea.	50-99 Ea.	100-249 Ea.
19A7291	PL-551	\$0.06	\$0.055	\$0.05	\$0.04

SWITCHCRAFT COLOR FILTER SNAP-INSERTS

Translucent filters for special color-coding in "Push-Lite" switch. Use with white or clear pushbuttons.

SERIES PL-300 FULL DISPLAY COLOR FILTERS		1-24	25-49	50-99	100-249
Stock No.	Mfg. No.	Each	Each	Each	Each
19A7281	PL-301	\$0.07	\$0.06	\$0.055	\$0.044
19A7282	PL-303	.07	.06	.055	.044
19A7283	PL-304	.07	.06	.055	.044
19A7284	PL-305	.07	.06	.055	.044
19A7285	PL-308	.07	.06	.055	.044

SERIES PL-400 SPLIT FACE DISPLAY COLOR FILTERS

Use 2 filters for each pushbutton

Stock No.	Mfg. No.	Color	1-24	25-49	50-99	100-249
19A7286	PL-401	Red	.05	.044	.04	.032
19A7287	PL-403	Green	.05	.044	.04	.032
19A7288	PL-404	Blue	.05	.044	.04	.032
19A7289	PL-405	White	.05	.044	.04	.032
19A7290	PL-408	Yellow	.05	.044	.04	.032

SWITCHCRAFT LAMP ADAPTER



Converts T-1 lamp base to T-1 1/4 lamp base. Adapter permits use of T-1 (No. 718) midjet flange base in sockets designed for T-1 1/4 lamps. See page 133 for 718 lamp.

No.	1-24 Ea.	25-49 Ea.	50-99 Ea.	100-249 Ea.
19A7292	\$1.45	1.38	1.25	1.00

GUARDIAN ALL PURPOSE ECONOMY 10 AMP RELAYS



Compact, lightweight relay capable of unusually heavy power control for its size. Long life, high quality relay, available in a variety of AC and DC voltages with a selection of contact combinations. 10 amp. contacts, 115 V. AC non-inductive load. Tapped for 8-32 single screw mounting. Size, 1 1/2" x 1 1/2" x 1". Shpg. wt. 4 oz.

Stock No.	Coil Volts	Mfg. No.	Cont. Comb.	IR640 60 Hz AC				
				1-24	25-49	50-99	100-249	
19A417	6	IR640U-A-6	SPST	\$3.19	\$2.87	\$2.71	\$2.23	
19A418	6	IR640U-C-6	SPDT	3.47	3.12	2.95	2.43	
19A419	6	IR640U-2C-6	DPDT	3.74	3.37	3.18	2.62	
19A420	6	IR640U-4C-6	4PDT	5.50	4.95	4.68	3.85	
19A421	24	IR640U-A-24	SPST	3.19	2.87	2.71	2.23	
19A422	24	IR640U-C-24	SPDT	3.47	3.12	2.95	2.43	
19A423	24	IR640U-2C-24	DPDT	3.74	3.37	3.18	2.62	
19A424	24	IR640U-4C-24	4PDT	5.50	4.95	4.68	3.85	
19A425	120	IR640U-A-120	SPST	3.19	2.87	2.71	2.23	
19A426	120	IR640U-C-120	SPDT	3.47	3.12	2.95	2.43	
19A427	120	IR640U-2C-120	DPDT	3.74	3.37	3.18	2.62	
19A428	120	IR640U-4C-120	4PDT	5.50	4.95	4.68	3.85	

IR645 DC COILS

Stock No.	Coil Volts	Mfg. No.	Cont. Comb.	1-24	25-49	50-99	100-249
19A430	6	IR645U-A-6	SPST	3.19	2.87	2.71	2.23
19A431	6	IR645U-C-6	SPDT	3.47	3.12	2.95	2.43
19A432	6	IR645U-2C-6	DPDT	3.74	3.37	3.18	2.62
19A433	6	IR645U-4C-6	4PDT	5.50	4.95	4.68	3.85
19B265	12	IR645U-A-12	SPST	3.19	2.87	2.71	2.23
19B266	12	IR645U-C-12	SPDT	3.47	3.12	2.95	2.43
19B267	12	IR645U-2C-12	DPDT	3.74	3.37	3.18	2.62
19B268	12	IR645U-4C-12	4PDT	5.50	4.95	4.68	3.85
19A434							

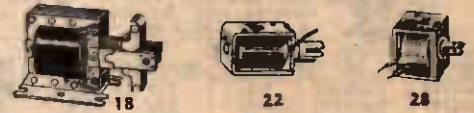


SOLENOIDS AND RELAYS

GUARDIAN PULL-TYPE SOLENOIDS



"I" intermittent types can be energized up to 5 minutes. "C" continuous duty types for unlimited time, if operated within power rating. Plunger has slotted end with 1/8" hole for coupling. *Maximum lift at minimum stroke.



Stock No.	Mfg. No.	Duty	Volts	AC or DC	Ohms	Adj. Stroke	*Max. Lift Oz.	Body Size L. X W. X H.	Wt. Ozs.	1-24 Each	25-49 Each	50-99 Each	100-249 Each	250 Up Each
19B142	11	I	6	DC	2	1/8-1/8	34	1 1/2 X 1 1/2 X 1 1/2	7.5	\$3.64	\$3.28	\$3.09	\$2.66	\$2.37
19B143	11	C	6	DC	5	1/8-1/8	25	1 1/2 X 1 1/2 X 1 1/2	7.5	3.64	3.28	3.09	2.66	2.37
19B144	11	I	24	AC	3.5	1/8-1/8	12	1 1/2 X 1 1/2 X 1 1/2	7.5	3.64	3.28	3.09	2.66	2.37
19B153	11	C	24	AC	8	1/8-1/8	12	1 1/2 X 1 1/2 X 1 1/2	7.5	3.64	3.28	3.09	2.66	2.37
19B155	11	C	24	AC	72	1/8-1/8	25	1 1/2 X 1 1/2 X 1 1/2	7.5	3.64	3.28	3.09	2.66	2.37
19B156	11	I	120	AC	85	1/8-1/8	12	1 1/2 X 1 1/2 X 1 1/2	7.5	3.64	3.28	3.09	2.66	2.37
19B165	11	C	120	AC	200	1/8-1/8	12	1 1/2 X 1 1/2 X 1 1/2	7.5	3.64	3.28	3.09	2.66	2.37
19A5011	12	I	120	AC	100	1/8-1/8	32	1 1/2 X 1 1/2 X 1 1/2	6	5.16	4.64	4.39	3.61	3.35
19B169	12	C	120	AC	150	1/8-1/8	22	1 1/2 X 1 1/2 X 1 1/2	6	5.16	4.64	4.39	3.61	3.35
19B103	14	I	120	AC	11	1/8-1 1/2	110	2 1/2 X 1 1/2 X 2 1/2	9	6.97	6.27	5.92	4.88	4.53
19B170	14	C	120	AC	18	1/8-1 1/2	65	2 1/2 X 1 1/2 X 2 1/2	9	6.97	6.27	5.92	4.88	4.53
19B186	18	I	120	AC	8.8	1/8-1	280	2 1/2 X 1 1/2 X 2 1/2	16.5	5.76	5.18	4.90	4.03	3.74
19B90	18	C	120	AC	19.7	1/8-1	145	2 1/2 X 1 1/2 X 2 1/2	16.5	5.76	5.18	4.90	4.03	3.74
19B285	18	I	240	AC	45	1/8-1	280	2 1/2 X 1 1/2 X 2 1/2	16.5	6.28	5.65	5.34	4.40	4.08
19B286	18	C	240	AC	78	1/8-1	145	2 1/2 X 1 1/2 X 2 1/2	16.6	6.28	5.65	5.34	4.40	4.08
19A328	22	I	6	DC	9	1/8-1/8	13	1 1/2 X 1 1/2 X 1 1/2	2.5	3.39	3.05	2.88	2.37	2.20
19A337	22	C	24	DC	60	1/8-1/8	24	1 1/2 X 1 1/2 X 1 1/2	2.5	3.39	3.05	2.88	2.37	2.20
19A5012	22	C	24	DC	144	1/8-1/8	13	1 1/2 X 1 1/2 X 1 1/2	2.5	3.39	3.05	2.88	2.37	2.20
19A23	28	I	24	AC	7.5	1/8-1/8	35	1 1/2 X 1 1/2 X 1 1/2	3.5	3.64	3.28	3.09	2.55	2.37
19A24	28	C	24	AC	17.4	1/8-1/8	20	1 1/2 X 1 1/2 X 1 1/2	3.5	3.64	3.28	3.09	2.55	2.37
19A25	28	I	120	AC	220	1/8-1/8	35	1 1/2 X 1 1/2 X 1 1/2	3.5	3.94	3.55	3.35	2.76	2.56
19A27	28	C	120	AC	400	1/8-1/8	20	1 1/2 X 1 1/2 X 1 1/2	3.5	3.94	3.55	3.35	2.76	2.56
19A43	28	I	6	DC	3.3	1/8-1/8	35	1 1/2 X 1 1/2 X 1 1/2	3.5	3.39	3.05	2.88	2.37	2.20
19A44	28	C	6	DC	7.7	1/8-1/8	24	1 1/2 X 1 1/2 X 1 1/2	3.5	3.39	3.05	2.88	2.37	2.20
19A47	28	I	12	DC	13	1/8-1/8	35	1 1/2 X 1 1/2 X 1 1/2	3.5	3.39	3.05	2.88	2.37	2.20
19A58	28	C	12	DC	27	1/8-1/8	24	1 1/2 X 1 1/2 X 1 1/2	3.5	3.39	3.05	2.88	2.37	2.20
19A65	28	I	24	DC	50	1/8-1/8	35	1 1/2 X 1 1/2 X 1 1/2	3.5	3.39	3.05	2.88	2.37	2.20
19A69	28	C	24	DC	104	1/8-1/8	24	1 1/2 X 1 1/2 X 1 1/2	3.5	3.39	3.05	2.88	2.37	2.20

GUARDIAN PUSH-TYPE SOLENOIDS

Plunger pushes out when Solenoid is energized. Length of push rods equals maximum stroke length shown.

Stock No.	Mfg. No.	Duty	Volts	AC or DC	Ohms	Adj. Stroke	*Max. Lift Ozs.	Body Size L. X W. X H.	Wt. Ozs.	1-24 Each	25-49 Each	50-99 Each	100-249 Each	250 Up Each
19A5017	18P	I	120	AC	8.8	1/8-1"	280	2 1/2 X 1 1/2 X 2 1/2	16.5	\$6.29	\$5.66	\$5.35	\$4.40	\$4.09
19A5018	18P	C	120	AC	19.7	1/8-1"	145	2 1/2 X 1 1/2 X 2 1/2	16.5	6.29	5.66	5.35	4.40	4.09
19A5019	28P	C	24	AC	17.4	1/8-1/2"	16	1 1/2 X 1 1/2 X 1 1/2	3.5	4.17	3.75	3.54	2.92	2.71
19A5020	28P	I	120	AC	220	1/8-1/2"	28	1 1/2 X 1 1/2 X 1 1/2	3.5	4.46	4.01	3.79	3.12	2.90
19A5021	28P	C	120	AC	400	1/8-1/2"	16	1 1/2 X 1 1/2 X 1 1/2	3.5	4.46	4.01	3.79	3.12	2.90
19A5022	28P	C	6	DC	7.7	1/8-1/2"	19	1 1/2 X 1 1/2 X 1 1/2	3.5	3.92	3.53	3.33	2.74	2.55
19A5023	28P	C	12	DC	27	1/8-1/2"	19	1 1/2 X 1 1/2 X 1 1/2	3.5	3.92	3.53	3.33	2.74	2.55
19A5024	28P	C	24	DC	104	1/8-1/2"	19	1 1/2 X 1 1/2 X 1 1/2	3.5	3.92	3.53	3.33	2.74	2.55

GUARDIAN SOLENOID SWITCHES

Standard type 11 pull-type solenoid with a SPDT switch operated by a push rod on the plunger. Switch contacts rated 10 A. at 120 VAC.

Stock No.	Duty	Volts	AC or DC	Ohms	Adj. Stroke	*Max. Lift Ozs.	Body Size L. X W. X H.	Wt. Ozs.	1-24 Each	25-49 Each	50-99 Each	100-249 Each	250 Up Each
19A5013	I	120	AC	85	1/8-1"	25	2 1/2 X 1 1/2 X 2 1/2	7.5	\$4.79	\$4.31	\$4.07	\$3.35	\$3.11
19A5014	C	120	AC	200	1/8-1"	12	2 1/2 X 1 1/2 X 2 1/2	7.5	4.79	4.31	4.07	3.35	3.11
19A5015	I	24	DC	31	1/8-3/8"	40	2 1/2 X 1 1/2 X 2 1/2	7.5	4.79	4.31	4.07	3.35	3.11
19A5016	C	24	DC	72	1/8-3/8"	25	2 1/2 X 1 1/2 X 2 1/2	7.5	4.79	4.31	4.07	3.35	3.11

GUARDIAN STEPPERS

For accurate sequence selecting, pulse multiplying, pulse dividing, circuit selecting, counting and latching. Direct drive. Switching operations completed upon energization.

① MER ELECTRICAL RESET STEPPER. Capable of counting up to 21 then resetting automatically. Can be reset to zero by 10 MS or longer impulse to reset coil. Two or more may be interconnected to increase count as desired. Size 3 1/4" x 3 x 2 1/2" H. Contacts 1/2 amp. Intermittent duty coil. Wt. 11 1/2 ozs. No. 19A471, IR-MC-120 VAC. 20 steps per second. 1-24 Ea. \$18.56 25-49 Ea. \$16.70 50-99 Ea. \$15.78 100-249 Ea. \$12.99

② IR-MC 24 POINT MIDGET. Continuous rotation stepper with 24 points. For circuit selecting. Contacts 1 1/2 amp. Intermittent duty coil. Size 3 1/4" x 3 x 2 1/2" H. Wt. 9 1/2 ozs. No. 19A471, IR-MC-120 VAC. 20 steps per second. 1-24 Ea. \$17.39 25-49 Ea. \$15.65 50-99 Ea. \$14.78 100-249 Ea. \$12.17

③ ROTOMITE STEPPER—DC. 12 positions—continuous rotation. Completely metal enclosed. 3 amp contacts resistive load. Used in business machines, computer circuits, automation. Size 2" L x 1 1/4" dia. Continuous duty. Wt. 5 ozs. Stk. No. Volts Mfg. No. 1-24 Ea. 25-49 Ea. 50-99 Ea. 100-249 Ea. 19A486 6 DC IR-705-12P-6D \$7.26 \$6.53 \$6.17 \$5.08 19A487 12 DC IR-705-12P-12D 7.26 6.53 6.17 5.08 19A488 24 DC IR-705-12P-24D 7.26 6.53 6.17 5.08

④ LATCHING ON/OFF RELAY. Midget latching relay. Provides positive on-off control for positioning devices; remote controls, lighting circuits, etc. 5 amp contacts, snap action switching. Short duration pulse reverses switch and holds (last position with coil de-energized. Size 1-29/32 x 1-7/32 x 1-13/16". Intermittent duty coil. Single 8/32 tapped mounting hole. Wt. 4 ozs. Stk. No. Volts Mfg. No. 1-24 Ea. 25-49 Ea. 50-99 Ea. 100-249 Ea. 19A376 120 AC IR640L-A120 SPST \$4.90 \$4.41 \$4.17 \$3.43 19A398 120 AC IR640L-C120 SPDT 5.23 4.71 4.45 3.66

IMPULSE RATCHET RELAYS

Type 660. Contact ratings 12 1/2 amp. resistive load 120 volts AC. Each impulse reverses contacts. Intermittent duty coil. Relay size 3 1/4" x 2 1/4". Wt. 8 oz.

Stock No.	Type	Contacts	1-24 Each	25-49 Each	50-99 Each	100-249 Each
19A523	660-C-120AC	SPDT	\$7.54	\$6.79	\$6.41	\$5.28
19A524	660-2C-120AC	DPDT	8.14	7.33	6.92	5.70

INTERLOCKING AC RELAYS

TYPE IR-1200/1200. Used to maintain circuits continuously without coil power consumption. Unit is electrically pulse operated with mechanical hold and electrical release. 10 amp contacts 60 Hz, non-inductive. Size 1 1/2" X 1 1/4" X 2 1/2" Wt. 5.5 oz.

No.	1-24 Ea.	25-49 Ea.	50-99 Ea.	100-249 Ea.
No. 19A549. IR1200/1200-4C-120A. 4PDT. 120 VAC.	\$10.40	\$9.36	\$8.84	\$8.32

(1) 1210 AC PLUG-IN RELAYS

Enclosed in lexan transparent case. DPDT has octal base. SPDT has 11 pin base. Rated 10 A. 60 Hz. 120 VAC. non-inductive load. 2 1/2" X 1 1/4" X 1 1/2". Wt. 3 1/2 ozs.

Stock No.	Coil Volts	Mfg. No.	Contact Combination	1-24 Each	25-49 Each	50-99 Each	100-249 Each
19A1831	6 AC	1210-2C-6A	DPDT	\$6.60	\$5.94	\$5.61	\$4.62
19A1832	24 AC	1210-2C-24A	DPDT	6.60	5.94	5.61	4.62
19A1833	120 AC	1210-2C-120A	DPDT	6.60	5.94	5.61	4.62
19A1834	120 AC	1210-3C-120A	3PDT	8.25	7.43	7.01	5.78
19A1835	240 AC	1210-2C-240A	DPDT	6.88	6.19	5.85	4.82

② WITH BUILT-IN NEON LAMP. Used for indicating circuit faults. For 120 VAC operation. Rated 10 amps. No. 19A1836. 120 VAC. 1210N-2C-120A. DPDT 1-24 Ea. \$7.43 25-49 Ea. \$6.69 50-99 Ea. \$6.32 100-249 Ea. \$5.20



MS 40 MINIATURE DC SENSITIVE RELAYS
 Contacts rated 2 amps. non-inductive 28 V. DC or 115 V. AC. IPDT gold alloy cross bar contacts, solder terminals. 4-40 mounting hole. Armature common to frame. 1 1/4" x 1 1/4" x 1 1/2". Shpg. wt. 3 ozs.

Stock No.	Mfg. No.	Nom. Current or Voltage	Resistance	Prices Each			
				1-24	25-49	50-99	100-249
19A1701	MS40-901	6 V.	250	\$2.17	\$1.95	\$1.74	\$1.52
19A1702	MS40-902	13.5 MA	500	2.17	1.95	1.74	1.52
19A1703	MS40-904	12 V.	1000	2.26	2.03	1.81	1.58
19A1704	MS40-906	6.0 MA	2500	2.29	2.06	1.83	1.60
19A1705	MS40-907	4.3 MA	5000	2.26	2.03	1.81	1.58
19A1700	MS40-909	2.9 MA	10,000	2.89	2.60	2.31	2.02



MS 64 MINIATURE DC SENSITIVE RELAYS
 Contacts rated 2 amps. non-inductive 28 V. DC or 115 V. AC. IPDT gold alloy cross bar contacts. Snap on cover. Molded construction. Isolated contacts. 1 1/4" x 3/4" x 1 1/4".

(1) PRINTED CIRCUIT TERMINALS

Stock No.	Mfg. No.	Voltage or Current	Resistance	Prices Each			
				1-24	25-49	50-99	100-249
19A1822	MS64-901	6 V.	400	\$2.27	\$2.04	\$1.82	\$1.59
19A1823	MS64-902	12 V.	1600	2.42	2.18	1.94	1.69
19A1824	MS64-903	24 V.	6500	2.56	2.30	2.05	1.79
19A1825	MS64-904	3 MA	10,000	2.82	2.54	2.26	1.97

(2) BRACKET MOUNTING

Stock No.	Mfg. No.	Voltage or Current	Resistance	Prices Each			
				1-24	25-49	50-99	100-249
19A1826	MS64-911	6 V.	400	\$2.38	\$2.14	\$1.90	\$1.67
19A1827	MS64-912	12 V.	1600	2.46	2.21	1.97	1.72
19A1828	MS64-913	24 V.	6500	2.69	2.42	2.15	1.88
19A1829	MS64-914	3 MA	10,000	2.89	2.60	2.31	2.02



MS 50 MINIATURE DC SENSITIVE RELAYS
 Contacts rated 2 amps. non-inductive 28 V. DC or 115 V. AC. Gold alloy cross bar contacts. Solder terminals. Isolated contacts. Open type: 1-5/8" x 1-1/8" x 1-1/4". Plug in: 2 x 1-3/8" x 1-3/8". high impact case. Shpg. wt. 5 ozs.

TWO POLE DOUBLE THROW—OPEN TYPE

Stock No.	Mfg. No.	Nom. Voltage	Resistance	Prices Each			
				1-24	25-49	50-99	100-249
19A1798	MS50-901	6 V.	160	\$4.90	\$4.41	\$3.92	\$3.43
19A1799	MS50-902	12 V.	650	4.90	4.41	3.92	3.43
19A1800	MS50-903	24 V.	2600	5.01	4.51	4.01	3.51

TWO POLE DOUBLE THROW—PLUG IN TYPE—8 PRONG OCTAL

Stock No.	Mfg. No.	Nom. Voltage	Resistance	Prices Each			
				1-24	25-49	50-99	100-249
19A1810	MS50P-901	6 V.	160	\$8.49	\$7.64	\$6.79	\$5.94
19A1811	MS50P-902	12 V.	650	8.49	7.64	6.79	5.94
19A1812	MS50P-903	24 V.	2600	8.62	7.76	6.90	6.03

129 AC POWER RELAYS

Totally enclosed. Screw connections. Contact rating inductive load: 18 amp at 250 VAC, continuous 1 HP - 125 V, 2 HP - 250 V; resistive load: 18 amp continuous. Operates in any position. 2-3/8" x 1-7/8" x 1-7/8". Shpg. wt. 5 ozs.

Stock No.	Mfg. No.	Coil Voltage	Contact	Prices Each			
				1-24	25-49	50-99	100-249
19A1744	129-902	24 VAC	1PNO	\$4.42	\$3.98	\$3.54	\$3.09
19A1745	129-903	120 VAC	1PND	4.69	4.22	3.75	3.28
19A1727	129-906	24 VAC	1PDT	5.50	4.95	4.40	3.85
19A1728	129-907	120 VAC	1PDT	5.80	5.22	4.64	4.06
19A1729	129-908	208/230 VAC	1PDT	6.14	5.53	4.91	4.30

84 AC GENERAL PURPOSE RELAYS

Totally enclosed. Screw terminals. Operates in any position. 2 3/8" x 1 1/4" x 1 1/2". Shpg. wt. 5 ozs. Contact Rating at 125/250 V. AC. Inductive loads 8 amp continuous, 25 amps inrush; resistive load: 16 amps continuous.

Stock No.	Mfg. No.	AC Coil Voltage	Action	Prices Each			
				1-24	25-49	50-99	100-249
19B179	84-902	24	SPNO	\$3.21	\$2.89	\$2.57	\$2.25
19B180	84-903	120	SPNO	3.54	3.19	2.83	2.48
19A1722	84-904	230/240	SPNO	3.95	3.56	3.16	2.77

Contact Rating at 125/250 V. AC. Inductive load: 8 amps continuous, 18 amps inrush; resistive load: 8 amps continuous.

Stock No.	Mfg. No.	AC Coil Voltage	Action	Prices Each			
				1-24	25-49	50-99	100-249
19A1723	84-906	24	SPDT	\$3.54	\$3.19	\$2.83	\$2.48
19A1724	84-907	120	SPDT	3.83	3.45	3.06	2.68
19A1725	84-908	230/240	SPDT	4.18	3.76	3.34	2.93

TYPE 70 DC POWER CONTACTORS

Single pole, normally open. Continuous duty coil. Non-turning studs. Drawn steel dustproof enclosure, copper stud power and coil terminals, double break rotating disc movable contact, solenoid actuated. Contact rating DC inductive load—36 V. max.; normally open 6V. DC, 80 amp continuous, 300 amp inrush; 12 V. DC, 80 amp continuous, 150 amp inrush; 24 to 36 V. DC, 50 amp continuous, 50 amp inrush. Suggested mounting cap down. Size 2 1/2" x 3 1/2" x 2 1/2". Wt. 1 lb.

4 TERMINAL—ISOLATED COIL

Stock No.	Mfg. No.	Coil Voltage	Resistance Ohms	Prices Each			
				1-24	25-49	50-99	100-249
19B176	70-901	6 V. DC	4	\$4.20	\$3.78	\$3.36	\$2.94
19B177	70-902	12 V. DC	19	4.20	3.78	3.36	2.94
19B178	70-903	24 V. DC	60	4.20	3.78	3.36	2.94
19A1734	70-904	36 V. DC	114	4.20	3.78	3.36	2.94

3 TERMINAL—COIL COMMON TO CASE

Stock No.	Mfg. No.	Coil Voltage	Resistance Ohms	Prices Each			
				1-24	25-49	50-99	100-249
19A1790	70-913	6 V. DC	4	\$4.20	\$3.78	\$3.36	\$2.94
19A1791	70-914	12 V. DC	19	4.20	3.78	3.36	2.94
19A1792	70-915	24 V. DC	60	4.20	3.78	3.36	2.94
19A1793	70-916	36 V. DC	114	4.20	3.78	3.36	2.94



143 AC POWER CONTACTORS

Two pole normally open. Screw power terminals (#10 solid wire max.) Auxiliary quick-connect terminals. Straight through wiring. Double break contacts. 3 1/4" x 2 3/4" x 1 1/2". Wt. 8 ozs. Contact rating inductive load: 18 amp. continuous, 90 amp. inrush @ 277 V. AC per pole. Resistive load: 25 amp @ 277 V. AC per pole.

Stock No.	Mfg. No.	Coil Voltage	Prices Each			
			1-24	25-49	50-99	100-249
19A1816	143-901	24	\$4.78	\$4.30	\$3.82	\$3.35
19A1817	143-902	120	4.78	4.30	3.82	3.35
19A1818	143-903	208/240	4.78	4.30	3.82	3.35

Contact rating inductive load: 25 amp. continuous, 150 amp. inrush @ 277 V. AC per pole. Resistive load: 35 amp @ 277 V. AC per pole. With cover.

Stock No.	Mfg. No.	Coil Voltage	Prices Each			
			1-24 Ea.	25-49 Ea.	50-99 Ea.	100-249 Ea.
19A1819	143-914	24	\$8.00	\$7.20	\$6.40	\$5.60
19A1820	143-915	120	8.00	7.20	6.40	5.60
19A1821	143-916	208/240	8.00	7.20	6.40	5.60

75 AC POWER CONTACTORS

Screw terminal contacts (8 solid wire max.) Hardware included. 9" leads on coil. Contact rating inductive load 2 pole rating: 18 amp. continuous, 90 inrush at 230 V. (2 HP-230 V.) Resistive load: 25 amp - 240 volt per pole. 2 1/2" x 2 1/4" x 1 1/4". Shpg. wt. 8 ozs.

Stock No.	Mfg. No.	Coil Voltage	Prices Each			
			1-24	25-49	50-99	100-249
19A1730	75-901	24 V. AC	\$4.86	\$4.37	\$3.89	\$3.40
19B211	75-902	115/120 V. AC	4.86	4.37	3.89	3.40
19B212	75-903	230/240 V. AC	4.86	4.37	3.89	3.40

85 AC POWER CONTACTORS

Three pole normally open. Screw terminals (#8 solid wire max.) 1/4" auxiliary wiring terminals. Straight-through wiring. Contact rating inductive load: 25 amp. continuous, 150 amp. inrush @ 250 V. AC, 12.5 amp continuous, 75 amp inrush @ 600 V. AC. 3 1/2" x 3 1/4" x 2 3/4". Shpg. wt. 8 ozs.

Stock No.	Mfg. No.	Coil Voltage	Prices Each			
			1-24	25-49	50-99	100-249
19A1813	85-901	24	\$10.80	\$9.72	\$8.64	\$7.56
19A1814	85-902	120	10.80	9.72	8.64	7.56
19A1815	85-903	208/240	10.80	9.72	8.64	7.56

10 TO 30 AMP AC INDUSTRIAL CONTACTORS

Doublebreak contacts. Silver alloy contacts. Replaceable contacts and coil. Hi dielectric arc resistant contact block and carrier. 50/60 Hz coil, resilient mounting. All types are 3 1/2" x 2 3/4" x 3 3/4". Shpg. wt. 5 ozs.

C10 10 AMP 4-POLE NORMALLY OPEN
 Pressure type power terminals, #10 solid wire max. All contacts convert to N.C.

Stock No.	Type	Coil Voltage	Prices Each			
			1-24	25-49	50-99	100-249
19A1735	C10-901	24 V. AC	\$13.10	\$11.79	\$10.48	\$9.17
19A1736	C10-902	110 V. AC	13.10	11.79	10.48	9.17
19A1737	C10-903	220 V. AC	13.10	11.79	10.48	9.17

C30 30 AMP 4-POLE NORMALLY OPEN

Pressure type terminals, #8 solid wire max.

Stock No.	Type	Coil Voltage	Prices Each			
			1-24 Ea.	25-49 Ea.	50-99 Ea.	100-249 Ea.
19A1739	C30-901	24 V. AC	\$18.20	\$16.38	\$14.56	\$12.74
19A1740	C30-902	110 V. AC	18.20	16.38	14.56	12.74
19A1741	C30-903	220 V. AC	18.20	16.38	14.56	12.74

TYPE C REPLACEMENT CONTACT ASSEMBLIES

Reversing type. 2 sets required.

Stock No.	Mfg. No.	Replaces	For Relays	1-24 Per Set	25 Up Per Set
19A1742	CA901	45997-3-4	C10, C15, CR15	\$6.20	\$3.49
19A1743	CA904	45997-5-16-20	C30, CR30	8.56	4.82

AMPERITE TIME DELAY RELAY

Thermostatic type hermetically sealed, unaffected by altitude, moisture or other atmospheric conditions. Operate on AC or DC. Contacts are SPST rated at 3 amps. Heater may be operated continuously. Heater wattage—2 W. approx. For 220 V. use a 6500 ohm 5 watt resistor in series with 115 V. heater.

Standard type are 2 1/4" high, less pins, x 1 1/4" maximum diameter, have octal base. Miniature type are 2 1/2" above pins x 7/8" diameter with 9 pin miniature base.

NORMALLY OPEN CONTACTS

NORMALLY CLOSED CONTACTS

Delay Sec.	Heater Voltage				Heater Voltage			
	8.3	12	26	115	6.3	12	26	115
2				115N02				115C2
3	6N03	12N03	26N03	115N03	6C3	12C3	26C3	115C3
5	6N05	12N05	26N05	115N05	6C5	12C5	26C5	115C5
8				115N08				115C8
10				115N010				115C10
15	6N015	12N015	26N015	115N015	6C15	12C15	26C15	115C15
20				115N020				115C20
30	6N030	12N030	26N030	115N030	6C30	12C30	26C30	115C30
45				115N045				115C45
60	6N060	12N060	26N060	115N060	6C60	12C60	26C60	115C60
90				115N090				115C90
120	6N0120	12N0120	26N0120	115N0120	6C120	12C120	26C120	115C120
180	6N0180	12N0180	26N0180	115N0180	6C180	12C180	26C180	115C180

STANDARD OCTAL BASE TIME DELAY RELAY

Specify Stock No. 19MS008 and Amperite Type Number. Any Type, Each.....\$2.40

POTTER AND BRUMFIELD RELAYS

POTTER & BRUMFIELD (PARELCO) GENERAL PURPOSE COMPACT RELAYS



Case size 1.19" L. .74" W. X dimension: .95" 2PDT, 1.17" 4PDT, 1.38" 6PDT. All have 5 ampere contacts. Solder in or plug in sockets listed.

Stk. No.	P&B No. R10-E1	Coil Volts	Ohms	ConL	1-9 Each	10-49 Each	50-99 Each	100-499 Each	500 Up
19A1880	X2-V52	6VDC	52		\$3.35	\$3.02	\$2.51	\$2.35	\$2.18
19A1881	X2-V185	12VDC	185		3.35	3.02	2.51	2.35	2.18
19A1882	X2-V700	24VDC	700	2PDT	3.35	3.02	2.51	2.35	2.18
19A1883	X2-V2.5K	48VDC	2500		3.35	3.02	2.51	2.35	2.18
19A1884	X2-V15.0K	115VDC	15,000		5.05	4.55	3.79	3.54	3.28
19A1885	X4-V52	6VDC	52		3.85	3.47	2.89	2.70	2.50
19A1886	X4-V185	12VDC	185		3.85	3.47	2.89	2.70	2.50
19A1887	X4-V700	24VDC	700	4PDT	3.85	3.47	2.89	2.70	2.50
19A1888	X4-V2.5K	48VDC	2500		3.85	3.47	2.89	2.70	2.50
19A1889	X4-V15.0K	115VDC	15,000		5.55	5.00	4.16	3.89	3.61
19A1890	X6-V25	6VDC	25		5.05	4.55	3.79	3.54	3.28
19A1891	X6-V90	12VDC	90		5.05	4.55	3.79	3.54	3.28
19A1892	X6-V430	24VDC	430	6PDT	5.05	4.55	3.79	3.54	3.28
19A1893	X6-V1.5K	48VDC	1500		5.05	4.55	3.79	3.54	3.28
19A1894	X6-V9.0K	115VDC	9000		5.95	5.36	4.46	4.17	3.88
19A1895	X2-115VAC	115VAC	4.8K	2PDT	5.10	4.59	3.83	3.57	3.32
19A1896	X4-115VAC	115VAC	4.8K	4PDT	6.25	5.63	4.69	4.38	4.06

R40 SERIES SLIMLINE DC RELAYS

Case size .43" X 1.4" X 1.2" H. 2 amp contacts.

Stk. No.	P&B No. R10-E1-Y4	Coil Volts	Ohms	ConL	1-9 Each	10-49 Each	50-99 Each	100-499 Each	500 Up
19A1907	V50	6VDC	50		5.35	4.82	4.01	3.75	3.58
19A1908	V200	12VDC	200		5.35	4.82	4.01	3.75	3.58
19A1909	V800	24VDC	800	4PDT	5.35	4.82	4.01	3.75	3.58
19A1910	V3.2K	48VDC	3.2K		5.35	4.82	4.01	3.75	3.58

R12 VARIABLE TIME DELAY RELAYS
Adjustable time delay has 15 turn potentiometer, calibrated timing capacitor. Delay on operate. Internal contacts rated 5 amps.

Stock No.	P&B No. R-12	Coil Volts	Delay (Sec.)	1-9 Each	10-24 Each	25-49 Each	50-99 Each
19A1911	-2-12-X2-E1	12VDC	0.1-2	\$18.10	\$16.29	\$13.58	\$11.77
19A1912	-2-24-X2-E1	24VDC	0.1-2	18.10	16.29	13.58	11.77
19A1913	-30-12-X2-E1	12VDC	1-30	18.60	16.74	13.95	12.09
19A1914	-30-24-X2-E1	24VDC	1-30	18.60	16.74	13.95	12.09
19A1915	-120-12-X2-E1	12VDC	5-120	20.10	18.09	15.08	13.07
19A1916	-120-24-X2-E1	24VDC	6-120	20.10	18.09	15.08	13.07

SOCKETS FOR ABOVE RELAYS

Stock No.	P&B No.	Socket For	Type Terminal	1-9 Each	10-49 Each	50-99 Each	100-499 Each	500 Up
19A1897	9XR10-7	R10-2PDT	Solder	\$0.61	\$0.55	\$0.46	\$0.43	\$0.40
19A1917	9XR10-4	R10-2PDT	PC Pins	.55	.50	.41	.39	.36
19A1898	9XR10-8	R10-4PDT	Solder	.77	.70	.58	.54	.50
19A1918	9XR10-5	R10-4PDT	PC Pins	.70	.63	.53	.49	.46
19A1899	9XR10-9	R10-6PDT	Solder	.99	.90	.79	.69	.65
19A1919	9XR10-6	R10-6PDT	PC Pins	.90	.81	.68	.63	.59
19A1920	9XR40-3	R40	Solder	1.00	.90	.75	.70	.67
19A1921	9XR40-2	R40	PC Pins	.95	.86	.71	.67	.64
19A1922	9XR12-1	R12	Solder	.90	.81	.68	.63	.59
19A1923	9XR12-2	R12	PC Pins	.90	.81	.68	.63	.59

SOLID STATE TIME DELAY RELAYS

Electronic timing with solid state switching combined to provide a trouble free timing device with no moving parts. Knob adjustable through delay range shown. All have internal relay with DPDT contacts rated 10 amps. -120 VAC. Size 1.78 x 1.41. Height including knob, 3.56".

CHB — DELAY "ON OPERATE"
Accuracy ±10% of nominal, reset times 100 milliseconds, repeatability ±2% octal base.

Stk. No.	Mfg. No.	Input Voltage	Delay Seconds	1-9 Each	10-24 Each	25-49 Each	50-99 Each
18B1459	CHB38-30001	24 VAC	1-10	\$19.95	\$18.95	\$17.96	\$15.96
19A1789	CHB38-30003	24 VAC	1-180	19.95	18.95	17.96	15.96
18A1746	CHB38-70003	120 VAC	1-180	19.95	18.95	17.96	15.96
18B1460	CHB38-70001	120 VAC	1-10	19.95	18.95	17.96	15.96

Release occurs when control circuit is de-energized. Accuracy ± 10% of nominal, reset time 100 milliseconds, repeatability ± 2%. 11 pin base.

Stk. No.	Mfg. No.	Input Voltage	Delay Seconds	1-9 Each	10-24 Each	25-49 Each	50-99 Each
18B1463	CHB38-70011	120 VAC	1-10	23.95	22.75	21.56	19.18
19A1747	CHB38-70013	120 VAC	1-180	23.95	22.75	21.56	19.18

COB DELAY "ON OPERATE"
Accuracy ± 5% of nominal, reset time 60 milliseconds, repeatability ± 1%. Octal base.

Stk. No.	Mfg. No.	Input Voltage	Delay Seconds	1-9 Each	10-24 Each	25-49 Each	50-99 Each
19B1442	COB38-70003	120 VAC	1-10	44.25	42.04	39.83	35.40
19B1443	COB38-70005	120 VAC	1.8-180	44.25	42.04	39.83	35.40

CUF SOLID STATE TIME DELAY RELAYS

Adjustable thru delay range shown by using external resistor (not furnished). For minimum time two terminals, 2 and 5, must be shorted; for maximum time the listed external resistor between terminals 2 and 5 must be added. For intermediate times select a lesser value resistor, or a potentiometer. Has internal DPDT 10 amp 115 VAC contact relay. 1.53 x 1.41 x 2.50" H. Wire in circuit or use 9KU1 socket.

Stk. No.	Mfg. No.	Input Voltage	Delay Seconds	Ext. Resistor	1-9 Each	10-24 Each	25-49 Each	50-99 Each
18A1748	70010	120 VAC	1-10	200K	\$15.00	\$14.25	\$13.50	\$12.00
18A1749	70120	120 VAC	1-120	2.4 Meg.	18.30	15.49	14.87	13.04
19A1750	30010	24 VAC	1-10	200K	15.00	14.25	13.50	12.00
19A1610	9KU1	Socket for CUF41.			1-24 .79	25-50 .75	51-99 .71	100-249 .55

POTTER & BRUMFIELD PR POWER RELAYS



Dependable, fast acting, sturdy, continuous duty relays for industrial use. Molded base, bobbin and contact carrier. 25 amp silver contacts. 2 1/2" X 2 1/2" X 2 7/16" H. (PR11 is 4 3/16" L.) AC types are 60 HZ. ST contacts are NO, UL and CSA listed. Screw terminals. Wt. 1 lb.

Stk. No.	Type	Contacts	Coil Volt.	1-24 Ea.	25-50 Ea.	51-99 Ea.	100-249 Ea.
19A366	PR3AY	SPST	24AC	\$4.80	\$4.56	\$4.32	\$3.36
19A1402	PR3AY	SPST	120AC	4.80	4.56	4.32	3.36
19A1335	PR3AY	SPST	240AC	5.30	5.04	4.77	3.71
19A1415	PR3DY	SPST	60C	4.80	4.56	4.32	3.36
19A1336	PR3DY	SPST	120C	4.80	4.56	4.32	3.36
19A370	PR5AY	SPDT	24AC	5.05	4.80	4.55	3.54
19A1403	PR5AY	SPDT	120AC	5.05	4.80	4.55	3.54
19A371	PR5AY	SPDT	240AC	5.55	5.27	5.00	3.89
19A1337	PR5DY	SPDT	120C	5.05	4.80	4.55	3.54
19A1322	PR5DY	SPDT	240C	6.05	5.77	5.50	4.39
19A1358	PR7AY	DPST	6AC	8.68	8.07	7.66	6.11
19A368	PR7AY	DPST	24AC	8.68	8.07	7.66	6.11
19A1404	PR7AY	DPST	120AC	9.68	9.07	8.66	7.11
19A369	PR7AY	DPST	240AC	10.68	10.07	9.66	8.11
19A1373	PR7DY	DPST	120C	5.70	5.42	5.13	3.99
19A1321	PR7DY	DPST	240C	6.70	6.42	6.13	4.99
19A1369	PR11AY	DPDT	6AC	7.45	7.08	6.71	5.22
19A372	PR11AY	DPDT	24AC	7.45	7.08	6.71	5.22
19A150	PR11AY	DPDT	120AC	7.95	7.55	7.16	5.57
19A1373	PR11AY	DPDT	240AC	8.95	8.55	8.16	6.57
19A1338	PR11DY	DPDT	120C	7.45	7.08	6.71	5.22
19A377	PR11DY	DPDT	240C	8.45	7.74	7.34	5.71

NO. 19A438. Metal Dust Cover for PR Relays. PB #35D013
1-24 Ea. \$3.45 50 Ea. \$3.28 99 Ea. \$3.11 249 Ea. \$2.42

PR11AS TYPE

Same type PR described above. DPDT with additional set of SPDT 3/16" silver contacts rated 5 amps. Not UL or CSA listed. Wt. 1 lb.
Stk. No. Type Coil Volts 1-24 Ea. 25-50 Ea. 51-99 Ea. 249 Ea.
19A1342 PR11AS 120AC \$8.95 \$8.50 \$8.06 \$6.27

PM 4PDT POWER TYPE

1/2" contacts rated 25 amp 120 or 240 VAC, 50/60 Hz. resistive load. UL and CSA listed. Screw terminals. 2.7" X 3.4" X 2.7" H. Wt. 1 lb.

Stk. No.	Mfg. No.	Coil Volts	1-24 Each	25-50 Each	51-99 Each	100-249 Each
19A1310	PM17AY	6AC	\$14.30	\$13.59	\$12.87	\$10.01
19A1312	PM17AY	24AC	14.30	13.59	12.87	10.01
19A1313	PM17AY	120AC	14.30	13.59	12.87	10.01
19A1514	PM17AY	240AC	14.85	14.11	13.37	10.40

COVER FOR PM RELAYS

Stk. No.	Mfg. No.	(Metal)	\$ 3.45	\$ 3.28	\$ 3.11	\$ 2.42
19C91	35D227	(Metal)	\$ 3.45	\$ 3.28	\$ 3.11	\$ 2.42
19A1876	35D203	(Plastic)	.48	.46	.43	.34

MS MOTOR STARTING

For capacitor start, induction run motors. Operates on back EMF of start winding. Carries UL component recognition. Size 2 1/16" X 3" X 2 1/4" high. Pure silver SPST, NC, double break contacts. For motors to 3 HP. Wt. 1 lb.

Stk. No.	Type	Coil Volts	1-24 Ea.	25-50 Ea.	51-99 Ea.	249 Ea.
19A1457	MS4AY	120VAC	\$4.90	\$4.66	\$4.41	\$3.43
19A1458	MS4AY	240VAC	8.40	5.13	4.86	3.78

METAL DUST COVER FOR MS RELAYS

Stk. No.	Mfg. No.	1-24	25-50	51-99	100-249
19A1441	35D130	2.20	2.09	1.98	1.54

"P" CLEAR PLASTIC CASE

With tube type base, same as KRP relays on P. 124 Build your own plug in modules.

Stk. No.	Type No.	Base	1-24 Each	25-50 Each	51-99 Each	100-249 Each
19A1400	35D070	8 pin	\$0.63	\$0.62	\$0.59	\$0.46
19A1401	35D072	11 pin	.80	.76	.72	.56

HOLD DOWN SPRING FOR "P", KRP OR KCP
19B392 9KR15 Each .15c 50 for \$3.80

JM MERCURY WETTED CONTACT RELAYS

Long life, high speed unvarying dependability through billions of operations. Internal glass capsule contains contacts, armature, reservoir of mercury, sealed in high pressure hydrogen. A film of mercury is renewed every operation minimizing contact bounce. Upright mounting, but deviation to 30° causes only minor deviation in operating characteristics. All have octal bases.

JM1 contacts 500 V. max., 2 amp max. with contact protection. R-C contact protection circuit with each relay. Up to 200 operations per sec. SPDT break before make (form C) contacts. 2.64" seated height. 1.31 max. dia. Wt. 5 ozs.

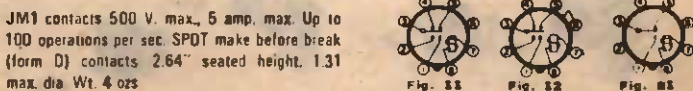


Fig. 31 Fig. 32 Fig. 33 Last two figures of Mfg. No.

Stock No.	Mfg. No.	Coil Ohms	Coil MA	1-9	10-24	25-99
18A1753	JML-1110-81	350	13.1	\$14.00	\$10.44	\$8.89
18A1754	JML-1160-81	1000	8.1	14.00	10.44	8.89
19A1755	JML-1190-81	2500	4.0	14.95	11.15	9.49
19A1756	JML-1200-81	4000	3.4	14.95	11.15	9.49
18B401	JM1-109-12	130	38.8	16.95	12.64	10.78
18A439	JM1-112-11	500	20.1	16.95	12.64	10.76
19B470	JM1-118-11	2500	10.1	17.25	12.87	10.90
19B472	JM1-119-11	4K	8.1	8.55	8.55	8.55

POTTER AND BRUMFIELD RELAYS



MEDIUM DUTY MR POWER RELAYS

For small motors, transmitters and general purpose use. Full floating armature. Fast action 60 Hz. AC coils 3.25 watts. DC coils 1.6 watts. $\frac{3}{4}$ " silver contacts rated 8 amps. 115 V AC non-inductive. Size $2\frac{1}{2}$ " X $1\frac{1}{2}$ " X $1\frac{1}{2}$ " H for single pole, $2\frac{1}{2}$ " X $2\frac{3}{4}$ " X $2\frac{1}{2}$ " H for double pole, $2\frac{1}{2}$ " X $2\frac{3}{4}$ " X $2\frac{1}{2}$ " H for three pole.

Stk. No.	Type	Contacts	Coil V.	1-24	25-50	51-99	100-249
19A1405	MR5A	SPDT	6AC	\$4.05	\$3.85	\$3.65	\$2.84
19A1417	MR5A	SPDT	24AC	4.05	3.85	3.65	2.84
19A1406	MR5A	SPDT	120AC	4.05	3.85	3.65	2.84
19A1316	MR5D	SPDT	12DC	3.75	3.56	3.38	2.63
19A1318	MR5D	SPDT	110DC	4.30	4.09	3.87	3.01
19A1407	MR11A	DPDT	6AC	5.70	5.41	5.18	3.99
19A1319	MR11A	DPDT	12AC	5.70	5.41	5.18	3.99
19A1419	MR11A	DPDT	24AC	5.70	5.41	5.18	3.99
19A1408	MR11A	DPDT	120AC	5.70	5.41	5.18	3.99
19A387	MR11D	DPDT	12DC	5.40	5.13	4.86	3.78
19A1320	MR11D	DPDT	24DC	5.40	5.13	4.86	3.78
19A1440	MR14A	3PDT	24AC	6.80	6.46	6.12	4.76
19A1422	MR14A	3PDT	120AC	6.80	6.46	6.12	4.76
19A1441	35D130	METAL DUST COVER FOR MR		\$2.20	\$2.09	\$1.98	\$1.54

ENCLOSED PLUG-IN KRP SERIES CHOICE OF 5 OR 10 AMP. CONTACTS

Small size long life relay for dependable use in automation control, communications switching, etc. Enclosed in clear plastic dust cover. Size $1\frac{1}{2}$ " X $1\frac{1}{2}$ " X $2\frac{1}{2}$ " high. 10 amp contacts on KRP types ending in G, all others are 5 amps. Dctal base for type P5 and P11. 11 pin for P14. Wt. 3 oz.

Stk. No.	Type	Contacts	Coil V.	1-24	25-50	51-99	100-249
19A1354	KRP5A	SPDT	120AC	\$6.30	\$5.99	\$5.67	\$4.41
19A1390	KRP5AG	SPDT	120AC	6.45	6.13	5.81	4.52
19A1391	KRP11AG	DPDT	6AC	7.25	6.89	6.53	5.08
19A1357	KRP11A	DPDT	12AC	7.00	6.65	6.30	4.90
19A1349	KRP11AG	DPDT	12AC	7.25	6.89	6.53	5.08
19A1382	KRP11A	DPDT	24AC	7.00	6.65	6.30	4.90
19A1392	KRP11AG	DPDT	24AC	7.25	6.89	6.53	5.08
19A1439	KRP11A	DPDT	120AC	7.00	6.65	6.30	4.90
19A1393	KRP11AG	DPDT	120AC	7.25	6.89	6.53	5.08
19A1771	KRP11AG	DPDT	240AC	7.70	7.32	6.93	5.39
19A1383	KRP11D	DPDT	6DC	6.95	6.60	6.26	4.87
19A1394	KRP11DG	DPDT	6DC	7.20	6.84	6.48	5.04
19A1384	KRP11D	DPDT	12DC	6.95	6.60	6.26	4.87
19A1395	KRP11DG	DPDT	12DC	7.20	6.84	6.48	5.04
19A1385	KRP11D	DPDT	24DC	6.95	6.60	6.26	4.87
19A1396	KRP11DG	DPDT	24DC	7.20	6.84	6.48	5.04
19A1358	KRP11D	DPDT	110DC	7.65	7.27	6.89	5.36
19A1462	KRP14A	3PDT	120AC	8.70	8.27	7.83	6.09
19A1397	KRP14AG	3PDT	120AC	9.05	8.60	8.15	6.34
19A1788	KRP14AG	3PDT	240AC	9.50	9.03	8.55	6.65
19A1328	KRP14D	3PDT	12DC	8.60	8.17	7.74	6.02
19A1359	KRP14D	3PDT	24DC	8.60	8.17	7.74	6.02
19B1350	KRP14DG	3PDT	24DC	8.95	8.50	8.06	6.27
19B1351	KRP14DG	3PDT	110DC	9.65	9.17	8.69	6.78

KCP SENSITIVE TYPE PLATE CIRCUIT RELAYS

Same appearance as KRP above. Operates on 125 MW for SP, 250 MW for DP, and 375 MW for 3P. $\frac{1}{8}$ " silver contacts rated 2 amps. $1\frac{1}{2}$ " square X $2\frac{1}{2}$ " high. Wt. 3 oz. KCP5 and KCP11 have 8 pin base and KCP14, 11 pin base.

Stk. No.	Type	Contacts	Dhms	1-24	25-50	51-99	100-249
19A1353	KCP5	SPDT	5K	\$6.95	\$6.60	\$6.26	\$4.87
19A1312	KCP5	SPDT	10K	7.40	7.03	6.66	5.18
19B1352	KCP11	DPDT	2.5K	7.30	6.94	6.57	5.11
19A1532	KCP11	DPDT	5K	7.40	7.03	6.66	4.94
19A1533	KCP11	DPDT	10K	7.85	7.46	7.07	5.50
19A1311	KCP14	3PDT	10K	9.55	9.07	8.60	6.69

KRP-N INDICATOR TYPE

Same as regular KRP relays with indicating lamp to show current or voltage availability in power circuit. Wt. 3 oz. All have 10 amp contacts.

Stk. No.	Type	Contacts	Coil V.	1-24	25-50	51-99	100-249
19B1364	KRP11AN	DPDT	120AC	\$8.30	\$7.89	\$7.47	\$5.81
19B1379	KRP14AN	3PDT	120AC	10.10	9.60	9.09	7.07



SMALL LIGHT DUTY KA RELAY DC AND 60 Hz. AC COILS

High quality, all purpose relay, UL listed. Silver contacts, choice, 5 or 10 amps. Single 6-32 stud mounting with locating tab. Solder lug terminals. Size $1\frac{1}{2}$ " X $1\frac{1}{2}$ " X $1\frac{1}{2}$ " high. 110 V. DC Coil res. 10,000 ohms. Wt. 2 oz.

Stk. No.	Type	Contacts	Coil V.	CONTACT RATING 5 AMP.			
				1-24	25-50	51-99	100-249
19A1429	KA5AY	SPDT	6AC	\$3.70	\$3.52	\$3.33	\$2.59
19A1332	KA5AY	SPDT	12AC	3.70	3.52	3.33	2.59
19A1430	KA5AY	SPDT	24AC	3.70	3.52	3.33	2.59
19A1431	KA5AY	SPDT	120AC	3.70	3.52	3.33	2.59
19A1432	KA5DY	SPDT	6DC	3.55	3.37	3.20	2.49
19A379	KA5DY	SPDT	12DC	3.55	3.37	3.20	2.49
19A378	KA5DY	SPDT	24DC	3.55	3.37	3.20	2.49
19A1370	KA5DY	SPDT	110DC	4.25	4.04	3.83	2.98
19A1423	KA11AY	DPDT	6AC	4.50	4.28	4.05	3.15
19A1424	KA11AY	DPDT	24AC	4.50	4.28	4.05	3.15
19A1425	KA11AY	DPDT	120AC	4.50	4.28	4.05	3.15
19A1426	KA11DY	DPDT	6DC	3.95	3.75	3.56	2.77
19A1427	KA11DY	DPDT	12DC	3.95	3.75	3.56	2.77
19A1428	KA11DY	DPDT	24DC	3.95	3.75	3.56	2.77
19A1371	KA11DY	DPDT	110DC	4.65	4.42	4.19	3.26
19A1433	KA14AY	3PDT	6AC	4.90	4.66	4.41	3.43
19A1434	KA14AY	3PDT	24AC	4.90	4.66	4.41	3.43
19A1446	KA14AY	3PDT	120AC	4.90	4.66	4.41	3.43
19A380	KA14DY	3PDT	6DC	4.45	4.23	4.01	3.12
19A381	KA14DY	3PDT	12DC	4.45	4.23	4.01	3.12
19A382	KA14DY	3PDT	24DC	4.45	4.23	4.01	3.12
19A1372	KA14DY	3PDT	110DC	5.15	4.89	4.64	3.61
19A1375	KA5AG	SPDT	6AC	\$3.75	\$3.56	\$3.38	\$2.63
19A1445	KA5AG	SPDT	12AC	3.75	3.56	3.38	2.63
19A1447	KA5AG	SPDT	24AC	3.75	3.56	3.38	2.63
19A1448	KA5AG	SPDT	120AC	3.75	3.56	3.38	2.63
19A1501	KA11AG	DPDT	6AC	4.60	4.37	4.14	3.22
19A1502	KA11AG	DPDT	12AC	4.60	4.37	4.14	3.22
19A1503	KA11AG	DPDT	24AC	4.60	4.37	4.14	3.22
19A1504	KA11AG	DPDT	120AC	4.60	4.37	4.14	3.22
19B364	KA14AG	3PDT	12AC	5.10	4.85	4.59	3.57
19B386	KA14AG	3PDT	24AC	5.10	4.85	4.59	3.57

LATCHING TYPE KB

One coil sets latch, another coil releases it. Both operate on same voltage with only momentary pulse. 5 amp contacts except No. ending in G are 10 amp. Size $1\frac{1}{2}$ " X $3\frac{1}{2}$ " X $2\frac{1}{2}$ " H. Wt. 6 oz.



Stk. No.	Type	Contacts	Coil V.	1-24	25-50	51-99	100-249
19A1458	KB17AY	4PDT	6AC	\$12.20	\$11.59	\$10.98	\$8.54
19A188	KB17AY	4PDT	12AC	12.20	11.59	10.98	8.54
19A1469	KB17AY	4PDT	24AC	12.20	11.59	10.98	8.54
19A1470	KB17AY	4PDT	120AC	12.20	11.59	10.98	8.54
19A1360	KB17D	4PDT	12DC	10.95	10.40	9.86	7.87
19A1361	KB17D	4PDT	24DC	10.95	10.40	9.86	7.87
19A1443	KB17AG	4PDT	120AC	12.30	11.69	11.07	8.61
19A1399	KB17DG	4PDT	24DC	11.20	10.64	10.08	7.84

AP RATCHET OPERATED

For applications requiring on-off or reversing action on alternate operations. Positive action on electrical impulse as short as 60 milliseconds. Each successive impulse reverses contact position. $\frac{3}{4}$ " fine silver contacts Rated 5A. For intermittent coil operation. Size $3\frac{1}{4}$ " X $2\frac{1}{4}$ " X $2\frac{3}{4}$ " H.



Stk. No.	Type	Contacts	Coil V.	1-24	25-50	51-99	100-249
19A1435	AP11A	DPDT	24AC	\$10.15	\$9.64	\$9.14	\$7.11
19A1436	AP11A	DPDT	120AC	10.15	9.64	9.14	7.11
19A1529	AP11A	DPDT	240AC	10.70	10.17	9.63	7.49
19A1438	AP17A	4PDT	120AC	12.30	11.69	11.07	8.61

PC IMPULSE TYPE

Armature driven rocker type actuator with single coil provides impulse switching for circuit reversing or on-off use. Requires only 30 MS pulse. Contacts rated at 7.5 amps. Size $2\frac{1}{4}$ " X $2\frac{1}{2}$ " X $2\frac{3}{4}$ " H. two hole mounting. Wt. 5 oz.



Stk. No.	Type	Contacts	Coil V.	1-24	25-50	51-99	100-249
19A1344	PC11A	DPDT	120AC	\$6.55	\$6.22	\$5.90	\$4.59
19A1345	PC17A	4PDT	24AC	9.00	8.55	8.10	6.30
19A1346	PC17A	4PDT	120AC	9.00	8.55	8.10	6.30

GP COIL AND CONTACT ASSEMBLIES



Complete interchangeability of switch assemblies and contact coils. Separate AC and DC coils to match with 2PDT and 4PDT switches. Assemble to your specifications. Contacts $\frac{1}{8}$ " dia. silver.

SWITCH ASSEMBLIES

Stk. No.	Mfg. No.	Contacts	Amps	1-24	25-50	51-99	100-249
19A1757	GP11	DPDT	5	\$2.00	\$1.90	\$1.80	\$1.40
19A1758	GP17	4PDT	5	3.40	3.23	3.06	2.38

GPA AC COILS

Stk. No.	Coil Voltage	1-24	25-50	51-99	100-249
19A1759	6 V.	\$1.95	\$1.85	\$1.76	\$1.37
19A1760	12 V.	1.95	1.85	1.76	1.37
19A1761	24 V.	1.95	1.85	1.76	1.37
19A1762	120 V.	1.95	1.85	1.76	1.37
19A1763	240 V.	2.40	2.28	2.16	1.68

GPD CURRENT COILS

Stk. No.	Resistance	1-24	25-50	51-99	100-249
19A1764	2,500	\$1.80	\$1.71		

POTTER AND BRUMFIELD RELAYS



KUP



9KU1

KUP 10-AMP SERIES

Covers a wide range of voltages and contact arrangements. Highly reliable, well designed, easy to install or replace. .187 terminals are quick connect/solder type. Enclosed in a clear plastic cover. Silver-cadmium-oxide contacts assure long contact life. Continuous operation. Size 2.25" seated height x 1.406" x 1.531". Wt. 3 oz. Socket for KUP relays listed below.

Stk. No.	Coil V.	Coil Ohms	KUP5A15-SPDT 10-Amp.		51-99 Each	100-249 Each
			1-24 Each	25-50 Each		
19A1583	6 V. AC	5.1	\$4.10	\$3.90	\$3.69	\$2.87
19A1584	12 V. AC	21	4.10	3.90	3.69	2.87
19A1585	24 V. AC	75	4.10	3.90	3.69	2.87
19A1586	120 V. AC	2250	4.10	3.90	3.69	2.87
19A1587	240 V. AC	9110	4.55	4.32	4.10	3.19
KUP5D15-SPDT 10-Amp.						
19A1588	6 V. DC	32.1	3.95	3.75	3.56	2.77
19A1589	12 V. DC	120	3.95	3.75	3.56	2.77
19A1590	24 V. DC	472	3.95	3.75	3.56	2.77
19A1591	110 V. DC	10K	4.60	4.37	4.14	3.22
KUP11A15-DPDT 10-Amp.						
19A1592	6 V. AC	5.1	5.00	4.75	4.50	3.50
19A1593	12 V. AC	21	5.00	4.75	4.50	3.50
19A1594	24 V. AC	75	5.00	4.75	4.50	3.50
19A1595	120 V. AC	2250	5.00	4.75	4.50	3.50
19A1596	240 V. AC	9110	5.45	5.18	4.91	3.82
KUP11D15-DPDT 10-Amp.						
19A1597	6 V. DC	32.1	4.50	4.28	4.05	3.15
19A1598	12 V. DC	120	4.50	4.28	4.05	3.15
19A1599	24 V. DC	472	4.50	4.28	4.05	3.15
19A1600	110 V. DC	10K	5.20	4.94	4.68	3.64
KUP14A15 3PDT 10-Amp.						
19A1563	6 V. AC	4.2	5.60	5.32	5.04	3.92
19A1564	12 V. AC	18	5.60	5.32	5.04	3.92
19A1565	24 V. AC	72	5.60	5.32	5.04	3.92
19A1566	120 V. AC	1700	5.60	5.32	5.04	3.92
19A1567	240 V. AC	7200	6.05	5.74	5.45	4.24
KUP14D15 3PDT 10-Amp.						
19A1568	6 V. DC	32.1	5.15	4.89	4.64	3.61
19A1569	12 V. DC	120	5.15	4.89	4.64	3.61
19A1570	24 V. DC	472	5.15	4.89	4.64	3.61
19A1571	110 V. DC	10K	5.60	5.32	5.04	3.92

9KU1 SOCKETS FOR KUP RELAYS. Rated 10 amperes, molded nylon, pierced solder terminals. 2.03 X 1.50" overall including mounting tabs.
No. 19A1610. 25-50 51-99 100-249 55c
1-24 Each 79c Each 75c Each 71c Each



KUP SERIES WITH SLOTTED FLANGE CASE

For direct chassis mounting. Not suitable for socket mounting, otherwise identical in mechanical and electrical specifications to the KUP described above. .187" quick-disconnect/solder terminals. .156" slot width.

Stk. No.	Coil V.	Coil Ohms	KUP5A55-SPDT 10 AMP		51-99 Ea.	100-249 Ea.
			1-24 Ea.	25-50 Ea.		
19A1851	120 VAC	2250	\$4.10	\$3.90	\$3.69	\$2.87
KUP5D55-SPDT 10 AMP						
19A1852	24 VDC	472	3.95	3.75	3.56	2.77
KUP11A55 DPDT 10 AMP						
19A1853	24 VAC	75	5.00	4.75	4.50	3.50
19A1854	120 VAC	2250	5.00	4.75	4.50	3.50
KUP11D55 DPDT 10 AMP						
19A1855	6 VDC	32.1	4.50	4.28	4.05	3.15
19A1856	12 VDC	120	4.50	4.28	4.05	3.15
19A1857	24 VDC	472	4.50	4.28	4.05	3.15
19A1858	110 VDC	10,000	5.20	4.94	4.68	3.64
KUP14A55 3PDT 10 AMPS						
19A1859	6 VAC	4.2	5.60	5.32	5.04	3.92
19A1860	12 VAC	18	5.60	5.32	5.04	3.92
19A1861	24 VAC	72	5.60	5.32	5.04	3.92
19A1862	120 VAC	1700	5.60	5.32	5.04	3.92
19A1863	240 VAC	7200	6.05	5.75	5.45	4.24
KUP14D55 3PDT 10 AMPS						
19A1864	6 VDC	32.1	5.15	4.89	4.64	3.61
19A1865	12 VDC	120	5.15	4.89	4.64	3.61
19A1866	24 VDC	472	5.15	4.89	4.64	3.61
19A1867	110 VDC	10,000	5.60	5.32	5.04	3.92



RSSD SENSITIVE RELAY

Low price, light weight for model controls, light dimmers, radiosonde, etc. 2 amp palladium contacts. Size 1 X 1 1/2 X 1 1/4" H. Wt. 1 1/2 oz.

Stk. No.	Coil Ohms	Pull In	1-24 Ea.	25-50 Ea.	51-99 Ea.	100-249 Ea.
19A1491	335	6 V.	\$3.05	\$2.90	\$2.75	\$2.14
19A1442	1.35 K	12 V.	3.20	3.04	2.88	2.24
19A1494	5 K	3.5 MA	3.60	3.42	3.24	2.52
19A1495	10 K	2.5 MA	4.20	3.99	3.78	2.94

KT ANTENNA RELAYS

Low-loss glass base insulation. For switching 300 ohm RF line. DPDT silver contacts rated at 5 amps. Size 1.3" X 1.9" X 1.7" H. Mounts with 6-32 stud.

Stk. No.	Type	Coil V.	1-24 Ea.	25-50 Ea.	51-99 Ea.	100-249 Ea.
19A1451	KT11A	6 AC	\$4.30	\$4.09	\$3.87	\$3.01
19A1452	KT11A	120 AC	4.30	4.09	3.87	3.01
19A1453	KT11D	6 DC	4.30	4.09	3.87	3.01
19A1454	KT11D	12 DC	4.30	4.09	3.87	3.01



KR3-H



KRP3H

KR3-H 20-AMP MIDGET

A reliable heavy duty relay for use where space is limited and the contact current requirement is high. Available in both open mounting and plug-in types. All have twin 1/4" silver cadmium contacts SPST-N.O.-DB, rated 20 amp at 120 V, AC 60 Hz.

KR3-H open mounting type have combination 1/4" quick connect or solder terminals. Overall size 1.6 x 1.67 x 1.52 inches. Mounting 6-32 stud. Wt. 2 Dz.

KRP3-H as described above, enclosed in clear plastic housing. Overall size 1.44" x 1.53" x 2.28" seated height-octal base.

Stk. No.	Mfg. No.	Coil V.	1-24 Ea.	25-50 Ea.	51-99 Ea.	100-249 Ea.
19B1492	KR3AH	12 V. AC	\$4.55	\$4.32	\$4.10	\$3.19
19B1496	KR3AH	24 V. AC	4.55	4.32	4.10	3.19
19B1497	KR3AH	120 V. AC	4.55	4.32	4.10	3.19
19B1499	KR3DH	12 V. DC	4.35	4.13	3.92	3.05
19B1500	KR3DH	24 V. DC	4.35	4.13	3.92	3.05
19A1523	KR3DH	110 V. DC	4.95	4.70	4.46	3.47
19A1525	KRP3AH	12 V. AC	7.35	6.98	6.62	5.15
19A1526	KRP3AH	24 V. AC	7.35	6.98	6.62	5.15
15A1527	KRP3AH	120 V. AC	7.35	6.98	6.62	5.15
19B1530	KRP3DH	12 V. DC	7.10	6.75	6.39	4.97
19B1531	KRP3DH	24 V. DC	7.10	6.75	6.39	4.97
19A1540	KRP3DH	110 V. DC	7.80	7.41	7.02	5.46



GA GENERAL PURPOSE

Low cost, multiple contact 5 amp all-purpose relay for many control circuit applications. Mounting single 8-32 tapped core. 1.06 x 1.71 x 1.78" H. Wt. 3 1/2 Oz.

Stk. No.	Mfg. No.	Contacts	Coil V.	1-24 Ea.	25-50 Ea.	51-99 Ea.	100-249 Ea.
19A1572	GA11A	DPDT	6 AC	\$3.85	\$3.66	\$3.47	\$2.70
19A1573	GA11A	DPDT	12 AC	3.85	3.66	3.47	2.70
19A1574	GA11A	DPDT	24 AC	3.85	3.66	3.47	2.70
19A1575	GA11A	DPDT	120 AC	3.85	3.66	3.47	2.70
19A1576	GA14A	3PDT	24 AC	4.60	4.37	4.14	3.22
19A1577	GA14A	3PDT	120 AC	4.60	4.37	4.14	3.22
19A1578	GA17A	4PDT	6 AC	5.55	5.27	5.00	3.89
19A1579	GA17A	4PDT	12 AC	5.55	5.27	5.00	3.89
19A1580	GA17A	4PDT	24 AC	5.55	5.27	5.00	3.89
19A1581	GA17A	4PDT	120 AC	5.55	5.27	5.00	3.89
19A1582	GA17A	4PDT	240 AC	5.95	5.65	5.36	4.17



GB SENSITIVE SERIES

High sensitivity at low cost. 5 amp. contacts. Single pole 115 milliwatts, double pole 125 milliwatts, 4 pole 275 milliwatts. Single 8-32 tapped core. 1.06 x 1.71 x 2.93" H. Wt. 5 oz.

Stk. No.	Coil Res.	Coil MA	1-24 Ea.	25-50 Ea.	51-99 Ea.	100-249 Ea.
19A1601	2500	6.8	\$3.95	\$3.75	\$3.56	\$2.77
19A1602	5000	4.8	4.15	3.94	3.74	2.91
19A1603	10,000	3.4	4.65	4.42	4.19	3.26
GB11D-DPDT						
19A1604	2500	7.	5.55	5.27	5.00	3.89
19A1605	5000	5.	5.75	5.46	5.18	4.03
19A1606	10,000	3.53	6.25	5.94	5.63	4.38
GB17D-4PDT						
19A1607	2500	10.5	6.60	6.27	5.94	4.62
19A1608	5000	7.4	6.80	6.46	6.12	4.76
19A1609	10,000	5.25	7.30	6.94	6.57	5.11



KHP

KHS

KHP & KHS

Small size—rugged 4PDT enclosed relay. For exacting high speed data processing, computer and process control service. 3 amp silver contacts. Solder terminals with 3-48 stud. May be used with sockets listed below. 1 1/4" H. 3/4" W. 1 1/4" D. Wt. 2 1/4 oz. KHP have nylon cover. KHS are hermetically sealed in metal enclosure.

Stk. No.	Mfg. No.	Coil V.	1-24 Ea.	25-50 Ea.	51-99 Ea.	100-249 Ea.
19A1868	KHP17A11	6 AC	\$5.55	\$5.27	\$5.00	\$3.89
19A1869	KHP17A11	12 AC	5.55	5.27	5.00	3.89
19A1870	KHP17A11	24 AC	5.55	5.27	5.00	3.89
19A1871	KHP17A11	120 AC	6.05	5.75	5.45	4.24
19A1515	KHP17D11	12 DC	5.05	4.80	4.55	3.54
19A1516	KHP17D11	12 DC	5.05	4.80	4.55	3.54
19A1517	KHP17D11	24 DC	5.05	4.80	4.55	3.54
19A1518	KHP17D11	48 DC	5.25	4.99	4.73	3.68
19A1541	KHS17A11	6 AC	9.55	9.07	8.60	6.69
19A1542	KHS17A11	12 AC	9.55	9.07	8.60	6.69
19A1543	KHS17A11	24 AC	9.55	9.07	8.60	6.69
19A1544	KHS17A11	120 AC	9.90	9.41	8.91	6.93
19A1872	KHS17D11	6 DC	8.55	8.12	7.70	5.99
19A1873	KHS17D11	12 DC	8.55	8.12	7.70	5.99
19A1874	KHS17D11	24 DC	8.55	8.12	7.70	5.99
19A1875	KHS17D11	110 DC	9.40	8.93	8.46	6.58

SOCKETS FOR ABOVE

Stk. No.	Coil Ohms	1-24 Ea.	25-50 Ea.	51-99 Ea.	100-249 Ea.
19A1521	9KH1 Solder Terminals	\$0.66	\$0.63	\$0.59	\$0.46
19A1830	9KH2 Printed Ckt. Terms.	.66	.63	.59	.46

BU INDUSTRIAL BUZZER

For signalling. AC operated. Use where a lightweight buzzer is required. Wt. 1 1/2 oz. 6-32 tapped core mounting. Size 1.03 X 1.37 X 1.03" H.

POWER INVERTERS, DC POWER SUPPLIES



12 VOLT DC POWER SUPPLY

RATED
4 AMP

\$19⁹⁵

Double the use of your auto stereo tape player, car radio or CB mobile equipment by using in your home or office. Converts 115 VAC to 12 volts DC. Up to a whopping load of 4 amps. No noticeable hum or voltage dip. Heavy duty binding posts, neon on-off indicator light. Automatic circuit breaker. Shpg. wt. 4 lbs. Size: 3" H. x 4 3/4" W. x 5 3/4" D.

- No. 13A8041, Each **\$19.95**
4 Amp Regulated Supply. Delivers 13.8 VDC ± 4% other features same as 13A8041 above.
- No. 13A8043, Each **\$29.95**
6 Amp Power Supply. Handles loads up to 6 amp @ 12VDC. Other features same as 13A8041 above.
- No. 13A8042, Each **\$24.95**

TRIPP LITE SOLID STATE POWER INVERTERS

OPERATE RADIOS,
APPLIANCES, ETC. FROM
YOUR CIGARETTE
LIGHTER

COMPACT ...
STORES IN GLOVE
COMPARTMENT!

\$29⁹⁵



Delivers 100 watts continuously. Has 2 power switching transistors! Where cigar lighter convenience is needed, use this model. Specially engineered to power the new 11-inch personal TV sets. Use in boat, plane, trailer or car! Lightweight. Size: 3 1/2 x 6 1/2 x 5 1/2". Shpg. wt. 6 lbs.

- No. 13A8036, Tripp Lite Model PV-100, Each **\$29.95**
Delivers 40 watts continuously. With cigarette lighter plug & cord. Size 3 1/2 x 3 1/2 x 2 1/2". Shpg. wt. 3 lbs.
- No. 13A8049, Tripp Lite Model PV-40, Each **\$19.95**

115 VAC INVERTER AND 12 V. BATTERY CHARGER



MODEL PV200B MODEL PV500B

Model PV200B. 200 W. Continuous. 115 VAC from 12 V. DC input. Charges 12 V. Battery at 5 Amps on AC Power. Ideal for campers where AC power is sometimes available. Your storage battery can then be charged. Later, when external AC is not available switch from "charge" to "invert". Has four transistors. Rugged construction. Metal parts plated to resist corrosion. Mounts under dash, etc. 3 1/2" x 5 x 5". Fused.

- No. 13A8023, Shpg. wt. 9 lbs. Net Each **\$54.95**
- Model PV350 350 W. Continuous. 115 VAC from 12 V. DC input. 8 transistors. Size 3 1/2 x 6 1/2 x 9". Shpg. wt. 12 lbs.
- No. 13A8050, Net Each **\$79.95**

Extra High Power Model PV-500B. 500 W. Continuous 115 VAC from 12 VDC input. Built-in 12 V. Battery Charger. 10 transistors. Max. charge 10 amps. Neon pilot warns of overloads. Size 5 X 9 1/2 X 9"

- No. 13A8037, Net Each **\$109.95**
- Model PV-500FC. With Frequency Control. For frequency sensitive equipment such as phonographs and recorders. ± 1 HZ from 11 to 14 volts, 25 to 450 watts. 15 transistors ... no battery charger otherwise same as PV-500B.
- No. 13A8038, Each **\$199.95**

Model PV-1000FC 1000 W. Continuous with frequency control. For frequency sensitive equipment such as phonographs and recorders. 27 transistors. Size 5 x 9 1/2 x 17". Shpg. wt. 47 lbs.

- No. 13A8051, Net Each **\$299.50**

Do Not use Inverters with Refrigerators, Air Conditioners, Toasters, Electric Skillet and other heavy current devices.

SENCORE UPS164 UNIVERSAL POWER SUPPLY HI-FILTERED VARIABLE REGULATED



It is 0 to 30 volt regulated and Hi-Filtered variable supply for powering any solid state circuit or circuits. Provides virtually DC. It is a well-filtered, Hi-Current, regulated 6 and 12 volt supply for powering any radio, tape deck, aircraft equipment, boat equipment, etc. ... up to 20 amps. It's a 20 amp battery charger at 6 volts and a 10 amp charger at 12 volts. It's a complete power monitor for all conditions. Two D'Arsonval Meters monitor both voltage and current at all times. You can't peg the meters either because the internal circuit is regulated to stop you. It is fully protected with automatic circuit limiting. You can short any

terminal with a screwdriver without internal damage. It protects the circuit too. Current limiting adjustment on Hi-Filtered Section can be set at any level to protect transistor circuit being powered. Size 10 X 10 X 12" H. Shpg. wt. 23 lbs.

- No. 35A3124, Sencore UPS164, Each **\$240.00**

RCA "COLOR VOLT" COLOR TELEVISION VOLTAGE REGULATOR



Operates automatically ... turns "on and off" with your regular TV switch. Safeguards against changes in line voltage that cause bad TV pictures. Prevents "shakes", "flips", "ralls", "flashes", "shrinks", "fades", or color changes often brought on or aggravated by the "on and off" operation of your normal household appliances, air conditioners, etc. Also prevents line voltage increases which can seriously shorten the life of tubes, transistors, picture tube and other components in your TV set. Simple plug-in installation, operates silently. Input voltage range 95 to

130 volts AC 60 Hz. Output constant 117 V. AC, 375 watts capacity. In attractive wood grained metal enclosure. 8 1/2 x 4 1/2 x 6 1/2" H. Wt. 13 lbs. Mfg. List \$59.95

- No. 13A8025, Net Each **\$49.95**



RCA SOLID STATE REGULATED POWER SUPPLIES

Output voltage continuously adjustable. Meter indicates output voltage or current level. Panel switch selects meter function, circuit automatically limits overload current to prevent damage to the supply. Maintains constant output voltage regardless of varying line voltage or load resistance. .0005 rms volt max. ripple. Electronic short circuit protection. Three output terminals, DC+ DC-, Gnd. to obtain positive or negative output. Three wire cord. Operate on 105-135 VAC, 50-60 Hz.

WP-700A Zero to 20 volts at current levels up to 200MA. Size 4x6 1/2 x 3". Shpg. Wt. 3 lbs.

- No. 35A3039, **\$48.00** 5 or more
Each Each **\$40.00**

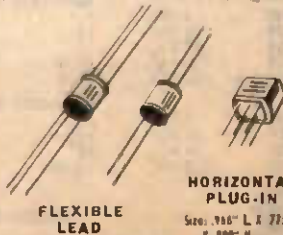
WP-704A Zero to 40 volts at current levels up to 250MA. Size 5 1/4 x 8 1/4 x 3 1/4". Shpg. Wt. 5 lbs.

- No. 35A3053, **\$60.00** 5 or more
Each Each **\$50.50**

DUAL BANANA PLUG & LEADS Includes alligator clip connectors. No. 35A8021, WG-413A, Net Each **\$3.75**

SPRAGUE TYPE 11Z TRIGATE PULSE TRANSFORMERS

Specifically designed for commercial and industrial SCR triggering applications where low cost and excellent performance are required. Balanced pulse characteristics and energy transfer between windings. Minimum saturation effect to allow operation where increased pulse widths are required. Fast pulse rise time and increased current capability to prevent SCR di/dt failure. Operating temperature range of -10C to +70C.



FLEXIBLE LEAD

HORIZONTAL PLUG-IN

Size: 9.0" L x 7.75" W x .800" H.

See: 593-D X 828-L

Stock No.	Mfg. No.	Turns Ratio	Max. LI (uH)	Max. DCR (ohm)	FLEXIBLE LEAD DESIGN								
					1-24	25-49	50-99	100-249	250-499	Each	Each	Each	Each
13A1021	11212	1:1	3.0	1.5-1.5	\$2.10	\$1.65	-\$1.08	\$0.780	\$0.720				
13A1022	11213	1:1	3.0	2-2.2	2.45	1.93	1.26	.910	.840				
13A1023	11214	2:1	10.0	10-2	2.98	2.34	1.53	1.105	1.020				
13A1024	11215	2:1:1	15.0	10-2-2	3.33	2.61	1.71	1.235	1.140				
13A1025	11216	5:1	1500	19-3	3.15	2.48	1.62	1.170	1.080				
					HORIZONTAL PLUG-IN DESIGN								
13A1026	1122000	1:1	3.0	1.5-1.5	\$3.68	\$2.89	\$1.89	\$1.365	\$1.260				
13A1027	1122001	1:1	12.0	8-8	3.85	3.03	1.98	1.430	1.320				
13A1028	1122003	2:1	10.0	10-2	4.73	3.71	2.43	1.755	1.620				
13A1029	1122004	5:1	1500	19-3	4.20	3.30	2.16	1.560	1.440				
13A1030	1122100	1:1:1	3.0	2-2.2	4.38	3.44	2.25	1.625	1.500				
13A1031	1122101	1:1:1	12.0	10-10-10	4.55	3.58	2.34	1.690	1.560				
13A1032	1122103	2:1:1	15.0	10-2-2	5.43	4.26	2.79	2.015	1.860				
13A1033	1122104	5:1:1	1500	20-4-4	4.90	3.85	2.52	1.820	1.680				

L1—Leakage Inductance; DCR—D-C Resistance.



SUPERIOR AND

SOLA

TRANSFORMERS



Type 10B



Type 21



Type 116BU, 117BU, 216BU, 217BU



Type 146U



Type 3PN126, 3PN136B



Type 146



Type 1156D, 1256D



Type 116B, 3PN116B, 117B

SUPERIOR POWERSTAT VARIABLE TRANSFORMERS WITH "POWRKOTE" HIGH TEMPERATURE INSULATED COILS

For precise variable AC voltage control from zero up to or above line voltage with full rated current available over the entire range. Design is highly efficient auto-former type with single winding over toroidal core. Extremely low heating, zero waveform distortion and excellent regulation from no load to full load. Gold alloy plated commutator, virtually maintenance free.

Uncased open construction Powerstats 10B thru 236BU are panel mounting. Portable types 3PN116B thru 3PN136B are enclosed with 3 wire input cord and output receptacle; 116B enclosed with 2 wire cord and output receptacle; 146 thru 1256D are cased with exposed terminals.

Current and KVA is maximum for a constant-current load.

OPEN CONSTRUCTION POWERSTATS

Stock No.	Mfg. No.	Input Volts	Input Hertz	Output Volts	Output Amps	KVA	Size Dia. Depth	Shpg. Wt.	Net Each
13A941	10B	120	50/60	0-120	2.25	.27	2 1/2" 2 1/4"	2.5 Lbs.	\$19.00
13A942	21	120	50/60	0-120	4.5	.54	3 3/4" 3 1/4"	6 Lbs.	18.00
13A943	116BU	120	50/60	0-120	10	1.2	5" 4 3/8"	12 Lbs.	25.00
13A944	117BU	120	50/60	0-120	12	1.4	5" 4 3/8"	12 Lbs.	27.00
13A945	126U	120	50/60	0-120	15	1.8	6" 4 3/4"	18 Lbs.	46.00
13A917	136BU	120	50/60	0-120	22	2.6	6 7/8" 4 3/4"	26 Lbs.	87.00
13A918	146U	120	50/60	0-120	30	3.6	9 1/2" 4 1/2"	38 Lbs.	109.00
13A946	216BU	240	50/60	0-240	3.5	.84	5" 4 3/8"	12 Lbs.	30.00
13A919	217BU	240	50/60	0-240	5	1.2	5" 4 3/8"	12 Lbs.	32.00
13A920	226U	240	50/60	0-240	7.5	1.8	6" 4 3/4"	18 Lbs.	46.00
13A921	236BU	240	50/60	0-240	10	2.4	6 7/8" 4 1/4"	26 Lbs.	87.00

PORTABLE PLUG-IN POWERSTATS W/2 WIRE CORD

Stock No.	Mfg. No.	Input Volts	Input Hertz	Output Volts	Output Amps	KVA	Size Dia. Depth	Shpg. Wt.	Net Each
13A937	116B	120	50/60	0-120	10	1.2	5" 5 1/2"	12 Lbs.	\$34.00
		120	50/60	0-140	10	1.4			

PORTABLE PLUG-IN POWERSTATS W/3 WIRE CORD

Stock No.	Mfg. No.	Input Volts	Input Hertz	Output Volts	Output Amps	KVA	Size Dia. Depth	Shpg. Wt.	Net Each
13A922	3PN116B	120	50/60	0-120	10	1.2	5" 5 1/2"	12 Lbs.	40.00
		120	50/60	0-140	10	1.4			
13A923	3PN117B	120	50/60	0-120	12	1.4	5" 5 1/2"	12 Lbs.	44.00
13A924	3PN126	120	50/60	0-120	15	1.8	6 1/4" 5 1/2"	18 Lbs.	85.00
		120	50/60	0-140	15	2.1			
13A925	3PN136B	120	50/60	0-120	22	2.6	7 3/4" 6 1/2"	26 Lbs.	84.00
		120	50/60	0-140	22	3.1			

CASED POWERSTATS WITH EXPOSED TERMINALS

Stock No.	Mfg. No.	Input Volts	Input Hertz	Output Volts	Output Amps	KVA	Size Dia. Depth	Shpg. Wt.	Net Each
13A938	146	120	50/60	0-120	30	3.6	9 1/2" 6 3/8"	38 Lbs.	\$16.00
		120	50/60	0-140	30	4.2			
13A940	1256D	240	50/60	0-240	28	6.7	13 7/8" 7 3/4"	82 Lbs.	173.00
		240	50/60	0-280	28	7.8			

EICO LOW-RIPPLE DC POWER SUPPLIES



1064



1020



1032

MODEL 1064 BATTERY ELIMINATOR AND CHARGER

Delivers ripple free DC in two ranges, 0-8 volts and 0-16 volts continuously variable by front panel control adjustment of variable transformer. Ideal for servicing transistor equipment, auto radios, portables, as battery substitute or battery charger. Ranges (selected by toggle switch) 0-8 volts at 10 amp continuous, 20 amp intermittent and 0-16 volts at 6 amps continuous, 10 amp intermittent. Output voltmeter and ammeter permits constant monitoring. Fused primary, automatic reset overload relay on secondary. Cabinet size 8 1/2 x 5 3/4 x 7 1/2". Wt. 16 lbs. Use on 117 volts AC 50-60 Hz line.

No. 35A272. 1064 K Kit, Each\$59.95
No. 35A273. 1064 Factory Wired, Each\$79.95

MODEL 1020 SOLID STATE POWER AND BIAS SUPPLY

Ideal bench unit which will supply all voltage needed to operate transistor devices, variable bias supply, DC filament supply and to recharge batteries of various kinds. Output voltage continuously variable from 0-30. Current rating 150 MA from 0 to 12 volts, 200 MA from 12 to 24 and 300 MA from 24 to 30. Extremely low ripple 120 Hz. at full load is only 0.05%. Silicon rectifier. Size 5 x 4 x 5 1/2". Housed in gray steel cabinet. Fuse protected. Wt. 5 lbs.

No. 35C397. 1020K Kit, Each\$25.95
No. 35C398. 1020 Factory Wired, Each\$39.95

MODEL 1032 SOLID STATE REGULATED POWER SUPPLY

Regulated low ripple power supply which is free of major variations with line voltage and load changes. Regulated output voltage adjustable from 0 to 30 VDC. Output current 0-500 MA. Voltage regulation is 0.2 volts change from 0 to maximum load and 105-135 volt line. Ripple is less than 2.5 mv peak-to-peak. 3 1/2" X 8" X 4 3/4". Wt. 5 lbs.

No. 35A711. Model 1032 Kit, Each\$44.95
No. 35A3099. Model 1032 Factory Wired, Each\$59.95

EICO 1030 VARIABLE REGULATED POWER SUPPLY

Featuring: Regulated continuously variable DC volts 0-400, continuous current at 0-200 volts 100 MA. At 200-400 volts 150 MA. Intermittent current at 0-200 volts 125 MA. Bias voltage from 0-150 volts at 2 MA. Regulation .3%. Variation .4% or 5 volt for ± 10 volt line variation. Ripple, less than 3 mV RMS. Also supplies 6.3 volts 3 amps, 6.3 volts center tapped 3 amps, 12.3 volts at 3 amps, and 6.3 volts at 6 amps. Input 120 volts 50-60 Hertz, 160 watts. Has dual range 0-200, 0-400 voltmeter and 0-200 DC milliammeter. 8 1/2" H., 12 1/2" W., 9" D. Wt. 21 lbs.

35B588. Model 1030. Kit, Ea\$79.95
35B588. 1030 Factory Wired\$109.95

FOR LABS—SCHOOLS TESTING



SOLA CONSTANT VOLTAGE TRANSFORMERS



①



②

(1) STANOARD SINUSOIDAL TYPE CVS

Harmonic-free, static-magnetic line voltage regulators having ultra-fast regulating action. Response time 1.5 cycles or less. Output voltage constant within ± 1% with input voltage variation as great as ± 15%. Less than 3% total RMS harmonic content in output. All have exposed core, end housings and screw terminals in outlet box. Parallel units of same type to increase output. Regulation effective at from 20% to 100% of full load rating.

SHIPPING WEIGHTS: 30 VA 8 lbs., 60 VA 10 lbs., 120 VA 14 lbs., 250 VA 28 lbs., 500 VA 45 lbs., 1000 VA 72 lbs., 2000 VA 140 lbs., 3000 VA 194 lbs., 5000 VA 335 lbs.

Stock No.	Mfg. No.	*Input Volts	Output Volts	Volt Amps	Size L.	Size W.	Size H.	Prices Each 1-4	Prices Each 5-9
13A913	23-13-030-2	95 to 130	118	30	6 1/2"	4	5 1/2"	\$32.45	\$28.55
13A926	23-13-060-2	95 to 130	118	60	6 1/2"	4	5 1/2"	38.50	33.90
13A927	23-22-112-2	Note 1	118	120	8 1/2"	4	5 1/2"	49.30	43.40
13A928	23-22-125	Note 1	118	250	9 1/2"	5 1/2"	7 1/2"	87.30	59.20
13A929	23-22-150	Note 1	118	500	12 1/2"	9	6 1/2"	104.80	82.05
13A930	23-25-210	Note 2	118 & 236	1000	17 1/2"	9	6 1/2"	175.50	154.45
13A1048	23-25-220	Note 2	118 & 236	2000	19 1/2"	10 1/2"	9 1/2"	307.75	270.80
	23-25-230-3	Note 2	118 & 236	3000	21 1/2"	10 1/2"	9 1/2"	427.95	376.80
	23-25-250	Note 2	118 & 236	5000	20 1/2"	10 1/2"	9 1/2"	668.35	588.15

†shipped direct from factory.

(2) NORMAL HARMONIC TYPE CVN

Provide the same ±1% regulation as the Sinusoidal series. Output contains average of 20% rms harmonic content. Recommended for electrical loads not affected by harmonics, such as solenoids, relays, heaters, filaments and where rectification is required.

Shpg. wts: 30 VA 7 lbs., 60 VA 10 lb., 120 VA 12 lbs., 250 VA 25 lbs., 500 VA 36 lbs., 1000 VA 48 lbs.

Stock No.	Mfg. No.	Input Volts	Output Volts	Volt Amps	Size L.	Size W.	Size H.	Prices Each 1-4	Prices Each 5-9
13A972	20-13-030-2	95-130	118	30	5 1/2"	4	5 1/2"	\$28.45	\$23.30
13A973	20-13-060-2	95-130	118	60	6 1/2"	4	5 1/2"	32.45	28.65
13A974	20-13-112-2	95-130	118	120	7 3/4"	4	5 1/2"	43.35	38.15
13A975	20-22-125	Note 1	118	250	11 1/2"	6 1/2"	6 1/2"	83.70	58.05
13A976	20-22-150	Note 1	118	500	12 1/2"	6 1/2"	6 1/2"	88.75	87.80
13A977	20-22-210	Note 1	118	1000	15 1/2"	6 1/2"	6 1/2"	165.90	146.00

*Input Volts: Note (1) dual range, 95 to 130 and 190 to 260 volts; Note (2) three range input, 95 to 130, 175 to 235 and 190 to 260 volts.

③ PLUG-IN ADAPTOR KITS FOR CVS-CVN ABOVE

Line cord with socket mounted on plate to fit end bell of transformer.

Fits CVS-CVN 30, 60 and 120 VA	2-Wire 999-104	No. 13A931.	Each	.....\$4.85
	3-Wire 999-105	No. 13A932.	Each	.....\$5.45
Fits CVS 250 VA only	2-Wire 999-005	No. 13A933.	Each	.....2.85
	3-Wire 999-019	No. 13A934.	Each	.....\$4.30
Fits CVS 500 VA	2-Wire 999-009	No. 13A935.	Each	.....\$3.75
CVN 250VA, CVN 500 VA	3-Wire 999-020	No. 13A936.	Each	.....\$4.30



STANCOR TRANSFORMERS



FILAMENT TRANSFORMERS

Primaries for 117 V. 60 Hz AC. P6456, P6454, P6458, P6308, P6309 have tap for 117-107 V. Electrostatic shield on P5015, P6133, P6308, P6309 and P6433. Secondary is center tapped except P4026, P6389 and P6469.

Stock No.	Mfg. No.	Secondary V.C.T. @ A.	Test Volts	Mtg. Fig.	Dimensions H. W. D.	Wt. Lbs.	Prices Each			
							1-9	10-24	25-49	50-99
13A335	P4026	2.5	1.5	2500	A 1 1/2 x 2 1/2 x 1 1/2"	.7	\$3.50	\$3.15	\$2.84	\$2.63
13B139	P6133	2.5	5	7500	S 2 3/4 x 3 1/2 x 2 1/4"	1.5	5.90	5.31	4.78	4.43
13A29	P6454	2.5	10	7500	S 3 1/2 x 3 3/8 x 2 1/2"	2.5	5.60	5.04	4.54	4.20
13A399	P6467	5	3	2500	A 2 x 3 1/2 x 2 1/2"	1.4	4.10	3.69	3.32	3.08
13A630	P6433	5	15	2500	B 3 1/2 x 2 3/4 x 2 1/2"	3	10.16	9.14	8.23	7.62
13A281	P6465	6.3	.6	1500	A 1 3/8 x 2 3/8 x 1 1/2"	.4	3.00	2.70	2.43	2.26
13B21	P6389	6.3	1	1500	A 1 3/8 x 2 3/8 x 1 1/2"	.6	3.10	2.79	2.51	2.33
13B99	P6134	6.3	1.2	3000	A 1 3/8 x 2 3/8 x 1 1/2"	.8	3.14	2.83	2.54	2.36
13A402	P6466	6.3	3	2500	A 2 x 3 1/2 x 2 1/2"	1.4	4.40	3.96	3.56	3.30
13A329	P6456	6.3	6	2000	A 2 3/8 x 2 3/4 x 2 3/8"	2	6.60	5.85	5.27	4.88
13B147	P6308	6.3	10	2500	NV 3 7/8 x 2 3/4 x 2 1/2"	3.4	12.04	10.84	9.75	9.03
13A721	P6309	6.3	20	2500	NV 4 1/8 x 3 3/8 x 3 3/8"	6.7	13.83	12.45	11.20	10.37
13A1014	P5015	7.5	4	2500	NV 3 1/2 x 2 1/2 x 2 1/2"	2.7	9.40	8.46	7.61	7.05
13A336	P6458	10	5	2000	NV 3 3/8 x 2 3/4 x 2 1/2"	3	9.16	8.24	7.42	6.87
13A330	P646T	10	10	2000	C 3 7/8 x 3 1/4 x 3 3/8"	5.0	13.98	12.58	11.32	10.49
13A1020	P8384	12.6	1.0	1500	A 2 1/2 x 2 1/2 x 1 1/2"	.9	4.21	3.79	3.41	3.16
13B192	P8130	12.6	2	1500	A 2 3/4 x 3 1/4 x 2 1/2"	1.4	4.00	3.60	3.24	3.00
13A331	P8358	12.6	3	1500	A 2 3/4 x 3 1/4 x 2 1/2"	1.6	4.65	4.19	3.77	3.49
13B211	P6469	25.2	1	1500	A 2 x 3 1/2 x 2 1/2"	1.4	3.85	3.47	3.12	2.89
13A978	P8180	25.2	1	1500	A 2 x 3 1/2 x 2 1/2"	1.4	4.10	3.69	3.32	3.08
13A332	P8357	25.2	2	1500	A 2 3/4 x 4 x 2 1/4"	2.2	5.60	5.04	4.54	4.20
13A1019	P8388	25.2	2.8	1500	A 3 3/8 x 2 3/8 x 2 1/2"	2.2	8.02	7.22	6.50	6.02

POWER TRANSFORMERS

Commercial grade transformers. Primaries 117 V. 60 Hz AC. *No center tap on indicated winding. Prefix on manufacturers number indicates illustration.

Stock No.	Mfg. No.	H.V. Sec. V.C.T.	5 V. @	E.J. @	Dimensions H. W. D.	Wt. Lbs.	Prices Each			
							1-9	10-24	25-49	50-99
13A381	PC8402	480	55	2A	2A CT	3 1/2 x 2 1/2 x 2 3/4"	2.4	\$8.40	\$7.56	\$6.80
13A382	PC8403	500	70	2A	2.5A CT	3 1/2 x 2 1/2 x 3 1/8"	3.2	9.10	8.19	7.37
13A979	PC8404	520	90	2A	3A	3 1/2 x 2 1/2 x 3 3/8"	4	11.24	10.12	9.10
13A384	PC8405	540	120	3A	3.5A	3 7/8 x 3 1/2 x 3 1/2"	4.9	12.46	11.21	10.09
13A668	PC856	540	260	3A	8.8A	3 7/8 x 3 1/2 x 3 3/8"	6.5	18.25	16.43	14.78
13A578	PC8406	650	40	2A	2A CT	3 1/2 x 2 1/2 x 2 3/4"	2.4	8.00	7.20	6.48
13A388	PC8409	700	90	2A	3A CT	3 1/2 x 2 1/2 x 3 3/8"	4.5	12.50	11.25	10.13
13A389	PC8410	720	120	3A	3.5A CT	3 7/8 x 3 1/2 x 3 3/8"	5.5	12.00	10.80	9.72
13A391	PC8412	800	200	3A	5A CT	4 1/2 x 3 3/8 x 4"	8.2	17.35	15.62	14.05
13B30	PS8415	*125	15	6A		1 1/2 x 2 3/8 x 1 3/8"	.7	3.64	3.28	2.95
13B32	PA821	*125	50	2A		2 1/2 x 3 1/2 x 2 1/2"	1.5	5.69	5.12	4.61
13A1051	P8624	*125	15	12.6V @ 3A		1 1/2 x 2 3/8 x 1 1/2"	.7	3.64	3.28	2.95
13A1052	P8625	*125	25	12.6V @ 6A		2 1/2 x 3 1/2 x 2 1/2"	1.5	5.69	5.12	4.61
13A1053	P8626	*125	50	12.6V @ 1A		2 1/2 x 3 1/2 x 2 1/2"	1.5	5.69	5.12	4.61
13B84	PS8416	250	25	1A		2 1/2 x 2 1/2 x 1 3/8"	1.0	4.66	4.19	3.77
13A395	PC8419	480	70	3A		3 1/2 x 2 1/2 x 2 3/4"	2.6	8.94	8.05	7.20

MULTI-VOLTAGE TRANSFORMERS

Three isolated 12 V. secondaries, one with CT, provide 6, 12, 18, 24, 30 and 36 V. output with varying current capacity by using series or parallel connections. All are S mtg., 8" leads. Excellent for building transistor power supplies.

Stock No.	Stancor No.	Mfg. No.	Watts Each Sec.	Input Volts	Output Volts	Dimensions H. W. D.	Wt. Lbs.	Prices Each			
								1-9	10-24	25-49	50-99
13B669	P8361	0.10	1 1/2	115	115	3 1/2 x 2 1/2 x 1 1/2"	.36	\$4.60	\$4.14	\$3.73	\$3.45
13B670	P8362	0.15	2 1/2	115	115	3 1/2 x 2 1/2 x 1 1/2"	.60	3.88	3.31	2.98	2.76
13B678	P8363	0.25	2 3/4	115	115	3 1/2 x 2 1/2 x 1 1/2"	.85	5.00	4.50	4.05	3.75
13B670	P8364	0.50	2 3/4	115	115	3 1/2 x 2 1/2 x 2 1/2"	1.25	5.50	4.95	4.46	4.13



STANCOR LINE VOLTAGE CONTROL TRANSFORMERS

Eliminates most shock hazard because of possible grounded circuits within the equipment being tested. A necessity when testing AC-DC sets. Built-in electrostatic shields are grounded to core. All have standard line cord. P6410 has outlet receptacle, P6160 and P6161 have voltage switch and outlet receptacle, and P6145 has 3 outlet receptacles.

Stock No.	Mfg. No.	Watts Max.	Input Volts	Output Volts	Dimensions H. W. D.	Wt. Lbs.	Prices Each			
							1-9	10-24	25-49	50-99
13A443	P6410	50	115	115	3 1/2 x 2 1/2 x 3 1/2"	3.7	11.61	10.45	9.87	9.29
13A444	P6160	100	125/115/105	115	4 1/2 x 3 3/8 x 3 3/8"	7.27	24.94	23.55	22.17	
13A1054	P6181	250	125/115/105	115	4 1/2 x 3 3/8 x 5 1/2"	14.2	30.34	27.31	25.79	24.27
13A947	P6415	350	117	105/115/125	5 3/8 x 4 3/8 x 5 1/2"	17	38.20	34.38	32.47	30.56

230 TO 115 V. STEP-DOWN AUTO-TRANSFORMERS

For operation of 115 VAC devices in areas where 230 V. 50 or 60 Hz AC is the supply voltage. All have 115 VAC plug-in receptacle mounted on transformer. Windings are not isolated. Primaries have standard-line cord and plug.

Stock No.	Mfg. No.	Watts Max.	Dimensions H. W. D.	Wt. Lbs.	Prices Each			
					1-9	10-24	25-49	50-99
13A1055	P8630	85	3 1/2 x 2 3/4 x 2 3/4"	2.5	\$7.51	\$6.76	\$6.08	\$5.63
13A1056	P8631	125	3 1/2 x 2 3/4 x 3"	3	8.68	7.81	7.03	6.51
13A1057	P8633	300	3 7/8 x 3 1/4 x 4"	5.2	13.34	12.01	10.81	10.01
13A1058	P8635	500	4 1/2 x 3 3/8 x 4 1/2"	10.3	18.35	16.52	14.86	13.76
13A1059	P8638	1000	4 1/2 x 3 3/8 x 6 1/2"	17	27.52	24.77	22.29	20.64

SMOOTHING FILTER CHOKES

Stock No.	Mfg. No.	Hys.	MA	Ohms	Fig.	Dimensions H. W. D.			Wt. Lbs.	Prices Each		
						1-9	10-24	25-49		50-99		
13A51	C1515	20	15	900	A	1 1/2 x 2 1/2 x 1 3/8"	.7	\$3.30	\$2.97	\$2.87	\$2.48	
13A1013	C1706	4.5	50	300	A	1 1/2 x 2 1/2 x 1 1/4"	.5	2.42	2.18	1.96	1.82	
13A61	C1279	8.5	50	400	A	1 1/2 x 2 1/2 x 1 3/8"	.7	3.38	3.04	2.74	2.54	
13A43	C1003	16	50	580	A	2 x 3 1/4 x 1 5/8"	1	3.50	3.16	2.84	2.63	
13A46	C1709	8	85	250	A	2 x 3 1/4 x 1 3/8"	1.4	3.42	3.08	2.77	2.57	
13A48	C1001	10.5	110	225	A	2 3/8 x 4 x 2 1/4"	2.3	5.04	4.54	4.08	3.78	
13A638	C2304	2.3	150	60	A	2 x 3 1/4 x 1 3/8"	1	4.40	3.96	3.56	3.30	
13A635	C2327	1.5	200	85	A	1 1/2 x 2 1/2 x 1 1/2"	.7	3.22	2.90	2.61	2.42	

HIGH CURRENT FILTER CHOKES

C2700 series is A mounting, TC-2 is A with crimp tabs. C2600 series is similar to NV.

Stock No.	Mfg. No.	Ind. Hys.	OC Amps	Ohms Res.	Dimensions H.W.D.	Wt. Lbs.	Prices Each			
							1-9	10-24	25-49	50-99
13A1067	C2723	7	135	40	1 1/2 x 2 3/8 x 1 1/2"	.35	\$1.67	\$1.50	\$1.35	\$1.26
13A1088	C2725	4	275	22	1 1/2 x 2 3/8 x 1 1/2"	.65	2.00	1.80	1.62	1.50
13A1069	C2727	.25	5	10	2 x 3 1/2 x 1 1/2"	1	2.52	2.27	2.04	1.89
13A1012	TC2	.01	1	.75	1 1/2 x 1 1/2 x 1 1/2"	.6	2.08	1.87	1.68	1.56
13A550	C2685	035	2	.75	2 1/2 x 2 3/8 x 2 1/8"	1.9	5.75	5.18	4.66	4.31
13A551	C2686	025	4	.425	2 1/2 x 3 1/2 x 2 3/8"	3.4	7.60	6.84	6.16	5.70
13A552	C2687	.01	8	15	3 1/2 x 3 3/8 x 3"	5.3	11.09	9.98	8.98	8.32

AUTOMATION CONTROL TRANSFORMERS

Dual winding primaries are connected parallel for 115 V. In series for 230 V. 50-60 Hz AC. Dual secondaries also may be connected series or parallel. P6375, P6376, P6377, P8616 and P8617 are J type. Others are BV mounting.

Stock No.	Mfg. No.	Parallel	Secondary	Size H.W.D.	Prices Each			
					1-9	10-24	25-49	50-99
13B24	P6375	6V @ 2A	12V @ 1A	1 2 1/2 x 2 1/2 x 1 1/2"	\$4.40	\$3.96	\$3.56	\$3.30
13A622	P6376	6V @ 4A	12V @ 2A	1.5 2 1/2 x 3 1/2 x 1 1/2"	5.20	4.68	4.21	3.90
13A623	P6377	12V @ 4A	24V @ 2A	2.5 3 1/2 x 3 1/2 x 2 1/2"	6.60	5.94	5.35	4.95
13A624	P6378	12V @ 8A	24V @ 4A	4.3 3 1/2 x 4 1/2 x 2 1/2"	11.90	10.71	9.64	8.93
13A627	P6379	12 V @ 16A	24 V @ 8A	8 4 1/2 x 3 3/8 x 3 3/8"	22.00	19.80	17.82	16.50
13A1063	P8616	24V @ 1A	48V @ 5A	1.5 2 1/2 x 3 1/2 x 1 1/2"	5.80	6.22	4.70	4.35
13A1064	P8617	24V @ 2A	48V @ 1A	2.5 3 1/2 x 3 1/2 x 2 1/2"	7.20	6.48	5.83	5.40
13A1								



STANCOR & TRIAD TRANSFORMERS



10 WATT LINE-TO-LINE TRANSFORMER

Primary 500/333/200/125/50 ohms, Secondary 500/300/200/125/50 ohms. Primary and secondary 500 and 200 sections have center taps (125 and 50). Figure Q. Size 2" H. x 3 1/4" W. x 1 7/8" D. Wt. 1 lb.
13A5. A4350. 1-9 Ea. \$6.86; 10-24 Ea. \$6.17; 25-49 Ea. \$5.83; 50-99 Ea. \$5.49

MICROPHONE AND LINE INPUT TRANSFORMERS

TD mounting is fully shielded for low hum pickup. A4779 is for Sgl. or PP grids, all others for single grid. Wt. 1 lb.

Stock No.	Mfg. No.	Pri. Ohms	Sec. Ohms	Mtg.	Dimensions H. W. D. inches	1-9	10-24	25-49	50-99
13A570	A4778	600/500CT	240,000	C1	2 1/4 x 2 7/8 x 1 1/2	\$7.39	\$6.85	\$6.28	\$5.91
13A571	A4779	600/500CT	60,000CT	A	1 3/4 x 2 3/8 x 1 1/4	4.09	3.68	3.48	3.27
13A4	A4351	500/333/200/125/50	89,000	TD	2 1/2 x 2 1/2 x 2 3/4	7.47	6.72	6.05	5.60

INTERCOM TRANSFORMERS

A4744 is voice coil to grid. A4748 is voice coil or line to grid. A8091 (8 watt) is line to voice coil output.

Stock No.	Mfg. No.	Pri.	Secondary	Mtg.	Dimensions H. W. D.	1-9	10-24	25-49	50-99
13A1	A4744	4 Ohm	25K Ohms	VE	1 3/4 x 2 1/2 x 1 1/2"	\$3.70	\$3.33	\$3.18	\$2.96
13A410	A4779	45 Ohm	50K Ohms	A	1 1/4 x 2 1/8 x 1 1/4"	4.89	4.40	3.98	3.67
13A471	A8091	45 Ohm	3-4 or 6-8	Q	1 5/8 x 2 7/8 x 1 1/2"	3.37	3.03	2.86	2.70

INTERSTAGE TRANSFORMERS

A-53, single plate (7K to 20K) to single grid. A4711 PP plates (7K to 15K) to PP grids, others single plate (7K to 15K) to PP grids. Max. DC in primary 10 MA. Average shpg. wt. 1 lb.

Stock No.	Mfr's. No.	Turns Ratio	Mtg.	Size H. W. D.	1-9	10-24	25-49	50-99
13A359	A53	1:3	A	1 3/4 x 2 3/8 x 1 3/8"	\$3.74	\$3.37	\$3.18	\$2.99
13A8	A53C	1:3	A	1 3/4 x 2 3/8 x 1 3/8"	3.83	3.45	3.26	3.06
13A7	A63C	1:3	A	1 5/8 x 2 7/8 x 1 1/2"	4.52	4.07	3.84	3.62
13A10	A4711	1:1	A	1 5/8 x 2 7/8 x 1 1/2"	4.69	4.22	3.80	3.52

AUDIO OUTPUT TRANSFORMERS

UNIVERSAL SINGLE OR PUSH-PULL TO VOICE COIL 4K to 14K primary, .05 to 122 ohm secondary. 4 watt. Figure A. 1 1/2" H. x 2 3/8" W. x 1 1/2" D. Wt. 4 lbs.
No. 13A19. A3856. 1-9 Ea. \$4.25 10-24 Ea. \$3.83 25-49 Ea. \$3.44 50-99 Ea. \$3.19

SINGLE PLATE TO VOICE COIL

Figure A Average wt. .5 lbs.

Stock No.	Mfg. No.	Impedance Pri.	Sec.	Watts	Dimensions H. W. D.	1-9	10-24	25-49	50-99
13A378	A3332	2K	3.2	3	1 1/4 x 2 1/8 x 1 1/4"	\$2.30	\$2.07	\$1.86	\$1.73
13B127	A3877	5K	4	5	1 3/8 x 2 3/8 x 1 3/8"	2.37	2.13	1.92	1.78
13B128	A3879	10K	4	5	1 3/8 x 2 3/8 x 1 3/8"	2.30	2.07	1.88	1.73

PUSH-PULL PLATES TO VOICE COIL

* Indicates 500/250/15/8/4 ohms. A3800, A3801 style C mtg. A3857 similar to A. Shpg. Wts: A3800 - 4 lbs., A3801 5 lbs., A3857 1/2 lb.

13A36	A3800	5KCT	•	30	3 1/2 x 2 1/2 x 3 3/4"	\$10.00	\$9.00	\$ 8.10	\$ 7.50
13B132	A3801	6.6KCT	•	35	3 7/8 x 3 1/8 x 3 3/4"	12.34	11.11	10.00	9.26
13A17	A3857	25KCT	4	5	1 3/8 x 2 3/8 x 1 1/2"	3.52	3.17	2.85	2.54

TUBE TO LINE TRANSFORMER

Primary single 20K/10K/5K plate or push-pull 20K plates. 15 MA DC. Secondary 500/333/200/125/50 ohms. Rated 5 watts. Figure A. 2" H. x 3 1/4" W. x 1 7/8" D. Wt. 1 lb.

13A377. A3250. 1-9 Ea. \$6.39 10-24 Ea. \$5.75 25-49 Ea. \$5.18 50-99 Ea. \$4.79

70.7 V. LINE TO VOICE COIL TRANSFORMERS

For matching speakers to amplifier output allowing selection of desired speaker power level. A8105 has 4/8 ohm sec.; A8080 has 8/16 ohm sec.; A8083 has 8 ohm sec.; all others 4/8/16 ohm sec. Weight varies from .4 to 1.5 lbs.

Stock No.	Mfr's. No.	Power Steps In Watts	Mtg. Type	Size H. W. D.	1-9	10-24	25-49	50-99
13A415	A8103	16/8/4/2	J	2 1/4 x 3 1/8 x 2 1/4"	\$7.19	\$6.47	\$5.82	\$5.39
13A414	A8102	8/4/2/1/5	J	2 1/2 x 3 1/8 x 1 1/2"	4.55	4.10	3.69	3.41
13A1016	A8080	5/4/3/2/1	A	1 3/8 x 2 3/8 x 1 1/2"	4.60	4.14	3.73	3.45
13A252	A8105	5/2.5/1.25/.62/.31	Q	1 3/8 x 2 3/8 x 1 1/2"	4.64	4.18	3.76	3.48
13A361	A8081	10/9/8/7/6	J	2x2 3/8 x 1 1/2"	5.44	4.90	4.41	4.08
13A362	A8082	15/14/13/12/11	J	2 1/2 x 3 1/8 x 1 1/2"	5.69	5.12	4.61	4.27
13A1017	A8083	2/1/5	A	1 3/8 x 2 3/8 x 1 1/2"	3.03	2.73	2.45	2.27

25 V. LINE TO VOICE COIL TRANSFORMERS

A8095 has 4/8 ohm sec. A4793 and A8088 have 8 ohm sec.

Stock No.	Mfr's. No.	Power Steps In Watts	Mtg. Type	Size H. W. D.	Wt. Lb.	1-9	10-24	25-49	50-99
13A980	A8095	5/2.5/1.25/.62/.31	A	1 3/8 x 2 3/8 x 1 1/2"	.4	\$4.15	\$3.74	\$3.36	\$3.11
13A1015	A4793	8/4/2/1/5	S	2x2 3/8 x 1 1/2"	.65	5.42	4.88	4.39	4.07
13A1018	A8088	4/2/1/25/12	A	1 3/8 x 2 3/8 x 1 1/2"	.7	3.87	3.48	3.13	2.90

CONTACT B-A INDUSTRIAL DEPT. FOR BULK PRICES ON 100 OR MORE OF ANY STANCOR NUMBERS.

STANCOR MINIATURE TRANSISTOR AUDIO TRANSFORMERS



Open frame style with coded wire leads. Size, 150 milliwatt units 1 1/2" between mounting tabs, 3/8" high, 1 1/2" wide, 5/8" deep. Wt. .65 ozs.
300 milliwatt units 1 3/8" between holes, 1 1/2" high, 1 5/8" wide, 3/4" deep. Wt. 1.2 ozs.

*Indicates 300 MW units. All others rated 150 MW.

Stock No.	Stancor No.	Application	Turns Ratio	Imped. Pri.	Ohms Sec.	1-9	10-24	25-49	50-99
13A818	TA52*	In. Stg.	1.00:1.00	500CT	500CT	\$5.40	\$4.86	\$4.37	\$4.05
13A909	TA28	In. Stg.	1.65:1.00	1500	500CT	5.40	4.86	4.37	4.05
13A1005	TA30	In. Stg.	1.00:1.22	5KCT	7.5KCT	5.00	4.50	4.05	3.75
13A1006	TA31	In. Stg.	1.00:1.41	5KCT	10KCT	5.00	4.50	4.05	3.75
13A832	TA34	In. Stg.	6.97:1	10K	200CT	5.40	4.86	4.37	4.05
13A833	TA35	In. Stg.	2.24:1	10K	2KCT	4.84	4.36	3.92	3.63
13A1007	TA38	In. Stg.	1.72:1.00	500CT	150CT	4.92	4.43	3.99	3.69
13A825	TA21	Output	5.53:1	500CT	4, 8, 16	5.00	4.50	4.05	3.75
13A911	TA33	Output	24.6:1.00	10KCT	4, 8, 16	4.00	3.60	3.24	3.00
13A912	TA39*	Output	2.50:1.00	100CT	4, 8, 16	4.25	3.83	3.44	3.19
13A1008	TA41*	Output	5.00:1.00	400CT	16CT	4.84	4.36	3.92	3.63
13A836	TA42*	Output	5.60:1	500CT	4, 8, 16	4.60	4.14	3.73	3.45
13A1009	TA43*	Output	6.63:1.00	700CT	16CT	6.00	5.40	4.86	4.50
13A1010	TA55*	Input	50:1.00	500K	200CT	7.00	6.30	5.67	5.25

TRANSISTOR AUDIO TRANSFORMERS

Designed especially for transistor applications. Highest quality throughout. All A mountings except TA56 is J mtg.; TA57, S mtg. TA5, TA6, TA16, and TA59 are for driver use, others for output use.

Stock No.	Type	Ohms Pri.	Ohms Sec.	DC MA	Power Watta	Ht.	Base Area	1-9	10-24	25-49	50-99
13A1002	TA-5	1000	200CT	10	.05	3/8"	1 1/4" x 1 1/4"	\$5.94	\$5.35	\$4.81	\$4.46
13A1003	TA-6	2000	200CT	5	.05	1/2"	1 1/4" x 1 1/4"	4.50	4.05	3.65	3.38
13A1004	TA-9	1000	16	10	.2	1 1/8"	1 1/4" x 1 1/4"	4.30	3.87	3.48	3.23
13A815	TA-16	20	36CT	400	1W	1 1/4"	2 1/2" x 1 1/2"	3.37	3.03	2.86	2.70
13A813	TA-12	20CT	8	500	10.0	1 1/4"	2 1/2" x 1 1/2"	3.23	2.91	2.62	2.42
13A819	TA-56	48CT	3.2/								
			8/16	550	10	2 1/2"	2 1/2" x 1 1/2"	4.17	3.75	3.38	3.13
13A1011	TA-59	500CT	200CT	50	.5	1 1/4"	1 1/4" x 1 1/4"	3.68	3.31	2.98	2.76
13A820	TA-57	100CT	3.2/								
			8/16	550	10	2 1/2"	2 1/2" x 1 1/2"	5.00	4.50	4.05	3.75
13A824	TA-62	25	4	400	4	1 1/2"	2 1/2" x 1 1/2"	3.00	2.70	2.43	2.25

TRANSISTOR POWER TRANSFORMER

Multiple tapped primary and secondary to furnish 24 different voltages from 6.5V to 42V. 100DCMA for bridge rectification with capacitor input filtering. Style A Mtg. 1 1/2" H. x 2 1/2" W. x 1 1/2" D. Wt. 8 lbs.
No. 13A632 TP-2 1-9 Ea. \$4.10 10-24 Ea. \$3.69 25-49 Ea. \$3.32 50-99 Ea. \$3.08

100 WS ELECTRONIC PHOTOFLASH

Power transformer for AC powered electronic flash circuits. 380 VAC at 20 DCMA in half wave circuit. 2 1/2" H. x 2 1/2" W. x 2" D. Wt. 1.4 lbs. Figure S.

No. 13A1000 P6425
1-9 Ea. \$5.52 10-24 Ea. \$4.97 25-49 Ea. \$4.47 50-99 Ea. \$4.14
Trigger coil for use with P-6425. 3/4" H. x 1/2" Dia.
No. 13A1001 P-6426
1-9 Ea. \$1.82 10-24 Ea. \$1.64 25-49 Ea. \$1.47 50-99 Ea. \$1.37

TRIAD TRANSISTOR POWER SUPPLY TRANSFORMER



Use with power transistors and silicon rectifiers to produce HV DC from 12 volts DC. Typical circuit included.

TY 79 thru TY-84 are highly efficient epoxy molded toroidal design. Exceed Grade 5 Class R requirements of specs. MIL-T-27B TFSRX40ZZ.

TY-68S thru TY-74S are commercial open frame transformers.

Order by B-A Stock No. 13M907 and Triad Type No.

Triad No.	DC Output From FW Bridge Rectifier	Dimensions H. W. O.	Wt. Lbs.	1-9	10-24	25-49	50-99
TY-79	300 V. @ 200 MA	1 3/4" Dia. 1" H.	.35	\$15.50	\$13.95	\$12.26	\$11.62
TY-81	375 V. @ 200 MA	2" Dia. 1" H.	.5	14.98	13.48	12.13	11.28
TY-84	600 V. @ 200 MA	2 3/4" D. 1 3/8" H.	1	23.27	20.94	18.85	17.53
TY-68S	250 V. @ 65 MA	1 3/4 x 1 3/4 x 1 1/2"	.2	6.60	5.94	5.35	4.98
TY-69S	300 V. @ 100 MA	1 7/8 x 2 3/8 x 1 1/2"	.5	9.51	8.56	7.70	7.16
TY-70S	325 V. @ 150 MA	2x2 3/8 x 2 1/2"	.6	8.53	7.68	6.91	6.43
TY-71S	375 V. @ 200 MA	2x2 3/8 x 2 1/2"	.65	8.53	7.68	6.91	6.43
TY-74S	600 V. @ 200 MA	2x4 1/2 x 3"	1.07	12.93	11.64	10.48	9.75

FOR 115 V. 60 HZ. AC POWER FROM 12 V. DC SOURCE

12 V. Invt. 110-115-125 VAC 60 Hz. 115 watt output. 3 7/8" H. x 3 3/4" W. x 3 1/2" D. Wt. 5 lbs.

13A907, TY-75A. 1-9 Ea. \$18.76 10-24 Ea. \$14.89; 25-49 Ea. \$15.19 50-99 Ea. \$14.13

VERY TINY TRANSISTOR TRANSFORMERS

Exceptionally small, only 1/2 inch largest dimension, nicely constructed. Equivalent domestic made units would cost many times more. Impregnation and special coating seals the coil. The right types for building transistor radios, tiny audio or mike amplifiers, etc. Mtg. tabs and wire leads. Size 1/2 x 1/2 x 1/2" H. Shpg. wt. 5 ozs. Import.

No. 13A904. Input, Pri. Imped. 200K ohms. Sec. 1000 ohms.

No. 13A905. Driver, Pri. Imped. 10K ohms. Sec. 2000 ohms.

No. 13A906. Output, Pri. Imped. 500 ohms. Sec. 8 ohms.

Choice, 10 @ Each \$1.01 100 @ Each \$1.12

TV TRANSFORMERS & COILS—RF CHOKES



STANCOR TV COMPONENTS FLYBACKS, VERTICAL DEFLECTION OUTPUTS & DEFLECTION YOKES

Order Flyback Transformers below or send us the Stancor part number or make, model and chassis number of set, name of part and original part number. Your TV transformer will be shipped promptly from B-A's stock or direct from the factory to you. Please send adequate remittance with your order, we will refund every penny not used.

Average Flyback Price for B & W is	\$10.00
Average Price of Color Fly Back is	\$17.00
Average Vertical Deflection Output Price	7.00
Average Deflection Yoke Price is	14.00

EXACT REPLACEMENT FLYBACK TRANSFORMERS

Average shipping weight 1 lb.

Stock No.	Stancor No.	Net Each	Stock No.	Stancor No.	Net Each	Stock No.	Stancor No.	Net Each
13B480	HO164	\$11.00	13A854	HO363	\$9.28	13A964	HO2CF	\$18.74
13A1049	HO202	9.85	13A1034	HO364	8.48	13A1040	HO603C	17.49
13B489	HO204	8.43	13A856	HO366	9.28	13A1041	HO605C	16.56
13B494	HO242	7.50	13A1035	HO378	9.35	13A965	HO607C	21.99
13A497	HO271	7.81	13A1036	HO390	9.33	13A1042	HO608C	15.99
13A983	HO272	7.21	13A1037	HO396	9.33	13A1050	HO618C	19.58
13A499	HO280	11.68	13A985	HO402	7.81	13A1043	HO620C	14.58
13A957	HO289	8.73	13A1038	HO405	6.40	13A1044	HO621C	15.41
13A842	HO304	9.16	13A1039	HO410	11.25	13A1045	HO624C	15.33
13A847	HO344	10.00	13A962	HO600C	14.44	13A1046	HO626C	14.99
13A960	HO351	8.21	13A963	HO601C	14.83	13A1047	HO627C	18.49

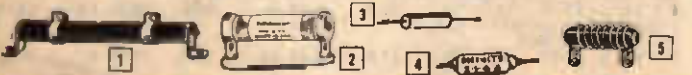
NATIONAL RF CHOKES



A wide selection of popular RF Chokes for receiver and transmitter circuits. R100-300 are wound on ceramic forms, R33 and R50 on molded phenolic. R175A rating 4000 volts, for 6 through 80 meters, 3000 V. Modulated. Current rating below is 20 degrees rise.

Fig.	Stk. No.	Mfg. No.	Induc.	Current	Ohms	Length	Each
				MA	Res.	Inches	
①	13A5043	R100	2.5 mh	115	44	2	\$0.84
②	13A5044	R300	1.0 mh	400	11	2 1/2	.80
③	13A5045	R300	2.5 mh	375	17	2 1/2	1.00
④	13A5046	R100U	2.5 mh	115	44	2 1/2	1.00
⑤	13A5047	R50	.5 mh	150	15	1	.60
⑥	13A5048	R50	1.0 mh	135	23	1	.60
⑦	13A5049	R50	2.5 mh	125	38	1	.60
⑧	13A5050	R50	5.0 mh	115	36	1	.85
⑨	13A5051	R33	10 mh	225	3.5	5/8	.45
⑩	13A5052	R33	100 uh	125	18	5/8	.48
⑪	13A5053	R33	750 uh	700	.15	1 1/8	.51
⑫	13A5054	R60	4 uh	700	6	3/8	4.00
⑬	13A5055	R154U	1 mh	600	6	3/8	4.00
⑭	13A5056	R175A	145 uh	800	5	6	7.50

OHMITE RF CHOKES



Single layer wound to operate best over freq. range indicated. Ohmite number indicates frequency in MHz at which maximum efficiency is obtained.

Fig.	Stk. No.	Ohmite No.	Ind. UH	MA	Op. Freq. Mhz.	Length	Each
①	13A5094	Z7	84.	1000	3-20	6	\$1.70
②	13A5095	Z14	44.	600	7-35	2	.89
③	13A5097	Z28	21.	600	20-60	1 3/4	.74
④	13A5098	Z50	7.	1000	35-110	1	.58
⑤	13A5099	Z144	1.8	1000	80-200	3/4	.55
⑥	13A5096	Z335	0.84	1000	160-350	3/4	.55
⑦	13A5195	P200			Parasitic Suppressor		2.40

MILLEN COIL FORMS

Low loss mica base phenolic. For permanent mounting, no prongs. Dia. 1" x 1 1/2" long.

- No. 13A5038, No. 45000. Each 69¢
- No. 45004 with 4 prongs for standard tube socket. 75¢
- No. 13A5039, Each
- No. 45005 with 5 prongs for standard tube socket. 75¢
- No. 13A5040, Each

MORRIS COIL-WINDER FOR ELECTRONICS

QUICKLY PAYS FOR ITSELF Well constructed hand-powered machine for accurately winding modern style coils, chokes, etc. Fully adjustable for self-supporting, universal and honeycomb windings, solenoids, single layers, spaced pi-sections, etc. Very practical for individuals, labs and shops engaged in electronic experimenting and construction. Literally pays for itself by saving cost for factory made parts. Shpg. wt. 4 lbs.

- Makes all kinds of coils and chokes with factory accuracy.
- Handles size 22 to 40 wire.
- Counter shows number of turns.

No. 378334, Net Each **\$9.95**

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ADJUSTABLE WIDTH CONTROLS FOR TV

With mtg. clip to fit 3/8" or 1/2" hole. Required in TV, widely used in low frequency oscillator circuits and as adjustable RF chokes.

Stock No.	Miller Type	Induct. Milli-Hy.	Net Each	Stock No.	Miller Type	Induct. Milli-Hy.	Net Each
13A5187	6196	.054-245	\$1.39	13A5103	6318	3-3	1.59
13A5188	6210*	16-42	2.10	13A5104	6319	8-60	2.16
13A5098	6211*	16-42 Tapped	2.10	13A5107	6322	1.5-10	1.69
13A5189	6212	12-35	2.10	13A5109	6324*	60-130 Tapped	2.16
13A5099	6313	.5-5	1.75	13A5110	6195	.185-1	1.52
13A5100	6314	2-18	1.75	13A5111	6198B	.5-1.7	2.16
13A5101	6315	4-30	1.75				

TV AND RADIO INTERFERENCE FILTER

Stops line static from electric razors, can openers, mixers, knives, vacuum cleaners, refrigerators and similar appliances. 1 1/2" dia. X 2 1/2" long. No. 13A5165, Miller 7811, Each **\$4.74**

TV AND APPLIANCE FILTER

Designed for use with larger household appliances and commutator-type motors, communications-type receivers and recording equipment. Useful for elimination of TV interference in radio receivers when inserted in television receiver line cord. Handles load requirements up to 550 watts 115 VAC. Gray Hammer-tone case, 2 1/4" square x 4 1/2" long. No. 13A5076, Miller 7815, **\$17.71**

SUB-MINIATURE R. F. CHOKES

Ultra miniature iron core R.F. chokes designed for high reliability. The coils are ideally suited to network and filter design, delay lines, and computer applications. Impregnated with a moisture resistant lacquer. Tolerance 1.0 UH ±20%, 1.1 to 15 UH ±10%, over 15 UH ±5%.

Stock No.	Miller No.	Inductance	O.C. Resistance	Milliamper Rating	Winding Diameter	Form Length	1-99 Each	100 up Each
13A5077	70F106A	1.0 uh	.048	636	.165	1/4	\$0.72	\$0.48
13A5079	70F336A	3.3 uh	.240	159	.150	1/4	.72	.48
13A5080	70F396A	3.9 uh	.264	159	.150	1/4	.72	.48
13A5081	70F476A	4.7 uh	.457	100	.150	1/4	.72	.48
13A5082	70F826A	8.2 uh	.744	100	.150	1/4	.72	.48
13A5083	70F105A	10 uh	1.56	75	.160	1/4	.84	.56
13A5084	70F125A	12 uh	1.68	75	.160	1/4	.84	.56
13A5085	70F155A	15 uh	1.92	75	.165	1/4	.84	.56
13A5086	70F225A	22 uh	2.28	75	.165	1/4	.84	.56
13A5088	70F335A	33 uh	2.76	75	.170	1/4	.84	.56
13A5089	70F475A	47 uh	3.36	75	.175	1/4	.84	.56
13A5090	70F124A	120 uh	8.16	75	.165	1/4	.84	.56
13A5091	70F204A	200 uh	10.3	75	.170	1/4	.84	.56
13A5158	70F244A	240 uh	11.5	75	.170	1/4	.84	.56
13A5092	70F564A	560 uh	19.2	75	.195	1/4	.90	.60
13A5093	70F824A	820 uh	22.9	75	.210	1/4	.90	.60
13A5063	70F393A	3.9 mh	57.6	75	.275	3/8	.99	.66
13A5064	70F753A	7.5 mh	85.2	75	.310	3/8	.99	.66
13A5085	70F182A	18 mh	128	75	.325	1/2	1.29	.88
13A5066	70F222A	22 mh	144	75	.330	1/2	1.38	.92

MILLER R.F. CHOKES

Stock No.	Mfg. No.	Ind. UH	Cur. MA	Ohms Res.	Net Each	Stock No.	Mfg. No.	Ind. UH	Cur. MA	Ohms Res.	Net Each
13A5113	4580	0.10	3000	.017	\$0.68	13A5120	4606	2.40	1500	.190	\$0.66
13A5114	4586	0.33	2600	.024	.68	13A5121	4609	5.50	850	.87	.66
13A5115	4588	0.47	2500	.034	.68	13A5122	4610	6.20	700	.83	.66
13A5116	4602	1.00	2000	.05	.66	13A5123	4611	8.20	600	1.2	.69
13A5117	4604	1.50	1800	.093	.66	13A5124	4612	10	500	1.5	.89

Stock No.	Mfg. No.	Ind. UH	Cur. MA	Ohms Res.	Net Each	Stock No.	Mfg. No.	Ind. UH	Cur. MA	Ohms Res.	Net Each
13A5118	6302	2.5	160	9	\$1.24	13A5125	6308	10.0	100	31	\$1.59
13A5119	6304	5.0	160	14	1.43	13A5126	6308	25.0	65	82	1.59

FREQUENCY SELECTIVE R.F. CHOKES

Maximum efficiency and highest impedance at specific operating frequencies eliminates the designer's task of attempting to choose the best coil for a particular application. Covers the major Amateur and industrial communication frequencies. 600 MA rating. Tolerance 10%.

Fig.	Stock No.	Mfg. No.	Inductance	Freq. Mhz	Price
①	13A5067	RFC-3.5	266 uh	1.8-5	\$1.69
②	13A5068	RFC-7	208 uh	3-13	1.69
③	13A5069	RFC-14	84 uh	7-20	1.49
④	13A5070	RFC-21	38.5 uh	15-30	1.21
⑤	13A5071	RFC-28	24.0 uh	25-40	1.34
⑥	13A5072	RFC-50	8.2 uh	30-90	1.15
⑦	13A5073	RFC-144	1.72 uh	75-180	.80
⑧	13A5074	RFC-220	.82 uh	160-340	.80
⑨	13A5075	RFC-420	.22 uh	350-500	.98

HEAVY DUTY HASH CHOKES

High current hash filters with powdered iron core.

Stock No.	Miller No.	Ind. uH	Ohms	Amps	Dimensions	1-99 Each	100-Up Each
13A5168	5218	3.34	.01	20	17/32 X 1 5/16"	\$1.85	\$1.23
13A5169	5219	4.9	.016	15	1/2 X 1-1/4"	1.85	1.23
13A5170	5220	8.8	.021	10	1/2 X 1-1/4"	1.85	1.23
13A5171	5230	4.0	.012	8	5/16 X 29/32"	1.26	.84
13A5172	5240	40.0	.082	3	9/16 X 1-1/4"	1.32	.88
13A5173	5248	68.0	.054	5	17/32 X 1-1/4"	1.50	1.00
13A5174	5250	100.0	.216	2	5/16 X 1-1/4"	1.50	1.00

CAPACITY RELAY COIL

Basic oscillator coil for constructing a capacity operated control system for displays, show windows, alarms, etc. System would take the place of normal "off-on" switch and provide automatic control when a person or object moves close. Coil size: 7/8" dia. x 2 1/4" H. With typical wiring diagram. Shpg. wt. 4 oz. No. 13A5022, Type 695, Net Each **\$4.16**



J. W. MILLER COILS, SUPEREX ANTENNAS

J. W. MILLER COILS



MINIATURE ADJUSTABLE COILS

Extremely compact iron core units 1/2" dia. Tune 540-1600 KHz with any condenser having maximum capacity between 250 and 450 pfd. Oscillator coils track with IF amplifier between 100 and 550 KHz. Type 70-OSC has primary and tapped secondary. 69-OSC has capacity coupled winding. Clip mtg. in 5/16" hole.

Stk. No.	Miller No.	Description	Size	Each
13A5013	70-A	Antenna	1/2" Dia. X 1 1/2" long	\$1.82
13A5014	70-OSC	Oscillator	1/2" Dia. X 1 1/4" long	1.58
13A5015	69-OSC	Oscillator	1/2" Dia. X 1 1/4" long	1.58

COMPACT UNIVERSAL OSCILLATOR COIL

Iron core adjustable for tracking with variable condensers having max. value between 250 and 450 pfd. in padded circuits and 100 to 200 pfd. in unpadded circuits with all types of tubes. Size 3/8" dia. x 1 1/2" high. Spring mtg. clips fit 3/4" dia. hole. RF range 540-1800 KHz. IF range 100-550 KHz. 4 oz.

No. 13A5016. Miller No. 71-OSC. Net Each \$3.36

ADJUSTABLE ALL-WAVE RADIO COILS

High Q unshielded. 3/8x2". Tune with 365 pfd. condenser. Order by Group Stock No. 13M5017 and Miller No.

Frequency	Antenna	RF Stage	Std. Osc.	Tapped Osc.	Each
140-420KHz	X5495A	X5495RF	X5495C	X5496C	\$3.42
540-1700KHz	A5495A	A5495RF	A5495C	A5496C	2.85
1.7-5.5MHz	B5495A	B5495RF	B5495C	B5496C	2.85
5.5-15MHz	C5495A	C5495RF	C5495C	C5496C	2.85
12-36MHz	D5495A	D5495RF	D5495C	D5496C	2.85

MILLER SLUG TUNED CERAMIC COIL FORMS

Precision made of ceramic material, silicone impregnated to reduce moisture absorption. Two adjustable solder terminal clips. Single hole mounting hardware.



Miller Type	With Slug For	With Slug For	With Slug For	Form Size	Mtg. Hole	Net Each
	1.0-20 MHz	2.0-25 MHz	25 MHz & Up	Dia. Lgth.		
4300	13A3023	13A5026	13A5029	.205 .593	.166	\$1.43
4500	13A5024	13A5027	13A5030	.260 .858	.192	1.52
4400	13A5025	13A5028	13A5031	.375 1.06	.252	2.15

MILLER SLUG TUNED PHENOLIC COIL FORMS

Constructed of varnish impregnated tubing. Mechanically stronger than ceramic, exhibiting extremely low loss. With 2 adjustable solder rings.

Miller Type	With Slug For	With Slug For	With Slug For	Form Size	Mtg. Hole	Net Each
	1.0-20 MHz	2.0-25 MHz	25 MHz & Up	Dia. Lgth.		
20A000	13A5032	13A5034	13A5036	.250 .860	.192	\$1.24
21A000	13A5033	13A5035	13A5037	.375 1.125	.252	1.24

MILLER HIGH "Q" SLUG TUNED WOUND COILS

On Phenolic forms 1/4" dia. x 1 1/4" long. Order by stock No. 13M5009 and Manufacturers number of coil selected.



Mfg. No.	Range uh		Net Each	Mfg. No.	Range uh		Net Each
	Min.	Max.			Min.	Max.	
20A107RB1	.088	.120	\$1.68	20A686RB1	5.08	8.16	\$1.76
20A157RB1	.108	.180	1.68	20A826RB1	7.35	9.84	1.76
20A227RB1	.162	.264	1.68	20A105RB1	8.85	12.0	1.99
20A337RB1	.238	.396	1.76	20A155RB1	10.8	18.0	1.99
20A477RB1	.356	.564	1.76	20A225RB1	16.2	26.4	1.76
20A687RB1	.508	.816	1.76	20A335RB1	23.8	39.6	1.99
20A827RB1	.735	.984	1.76	20A475RB1	35.6	56.4	1.99
20A106RB1	.885	1.20	1.76	20A685RB1	50.8	81.6	1.99
20A156RB1	1.08	1.80	1.76	20A825RB1	73.5	98.4	1.99
20A226RB1	1.62	2.64	1.76	20A104RB1	88.5	120.	1.99
20A336RB1	2.38	3.96	1.76	20A154RB1	108.	180.	1.99
20A476RB1	3.56	5.64	1.76	20A224RB1	162.	264.	1.99

COIL SELECTOR CHART FOR MILLER COILS ABOVE

Shows proper coil for use in circuits intended for the various amateur bands when parallel capacitance is known.

Band	40 PFD.	90 PFD.	130 PFD.
1.8 MHz (160 Mtrs)	20A224RB1	20A825RB1	20A685RB1
3.6 MHz (75.80 Mtrs)	20A475RB1	20A225RB1	20A155RB1
7.2 MHz (40 Mtrs)	20A155RB1	20A686RB1	20A336RB1
14.2 MHz (20 Mtrs)	20A336RB1	20A156RB1	20A106RB1
21.3 MHz (15 Mtrs)	20A156RB1	20A106RB1	20A337RB1
28.0 MHz (10 Mtrs)	20A827RB1	20A337RB1	20A227RB1
51.0 MHz (6 Mtrs)	20A227RB1	20A107RB1	

VERTICAL MOUNTED PRINTED CIRCUIT VELVETORK ADJUSTABLE R.F. COILS

The coil form is Polyester impregnated Alpha-Cellulose tubing with internally bonded resilient ribs which provide both thread and torque control. Coils may be adjusted from either end of form. Dimensions (form only) Over Collar 3/4" Dia. x 3/4" long. Proper coil can be selected by substituting similar values in chart above.



Miller No.	Range uh		Each	Miller No.	Range uh		Each
	Minimum	Maximum			Minimum	Maximum	
23A107RPC	.095	.125	\$1.39	23A686RPC	4.6	8.5	\$1.49
23A157RPC	.130	.170	1.39	23A826RPC	5.6	10.0	1.49
23A227RPC	.185	.265	1.39	23A105RPC	7.1	12.5	1.49
23A337RPC	.285	.410	1.39	23A155RPC	10.0	18.7	1.58
23A477RPC	.420	.580	1.39	23A225RPC	14.8	27.5	1.58
23A687RPC	.540	.850	1.39	23A335RPC	22.0	41.0	1.58
23A827RPC	.640	1.00	1.39	23A475RPC	31.0	58.0	1.58
23A106RPC	.760	1.25	1.39	23A685RPC	43.5	85.0	1.58
23A156RPC	1.20	1.87	1.39	23A825RPC	61.0	100.0	1.58
23A226RPC	1.65	2.75	1.49	23A104RPC	76.0	125.0	1.58
23A336RPC	2.40	4.10	1.49	23A154RPC	105.0	187.0	1.58
23A476RPC	3.40	5.80	1.49	23A224RPC	160.0	275.0	1.58

MILLER 3/4" UNIVERSAL I.F. TRANSFORMERS

Standard printed circuit (PC) or chassis type clip mounted I.F.s. Hex holes in cores allow top tuning for both cores. Use for input, interstage or output. 3/4" sq. X 2 1/4" H. Wt. 2 ozs.

Stk. No.	Type	Frequency	Each
13A5182	KHz262	250-275KHz	\$2.10
13A5183	KHz455	450-475KHz	2.10
13A5184	KHz262PC	250-275KHz	2.10
13A5185	KHz455PC	450-475KHz	2.10
13A5186	1457	10.7MHz	2.99

TRANSISTOR I.F. COMPONENTS

Modern design shielded transformers for solid state equipment. 8814 incorporates a single section mechanical filter that sharpens the I.F. passband appreciably 4 KHz at 6 db and 12 KHz at 20 db.



SUB-MINIATURE 10.7 MHz TRANSISTOR TRANSFORMERS

Stock No.	Miller No.	Specs.	Description	Size Inches L. W. D.	Each
13A5127	8849	500 KHz P/P	Ratio Detector	3/4x1/2x1/2	\$3.21
13A5128	8850	300 KHz P/P	Oscillator	3/4x1/2x1/2	3.21
13A5129	8851-A	6 db. 300 KHz	Double Tuned I.F.	3/4x1/2x1/2	2.52
13A5130	8852	100K-300	Single Tuned I.F.	3/4x1/2x1/2	2.16
13A5131	8853	20k-500	Single Tuned I.F.	3/4x1/2x1/2	2.16
13A5132	8854	25k-500	Single Tuned I.F.	3/4x1/2x1/2	2.16

SUB-MINIATURE 455KHz TRANSISTOR TRANSFORMERS

Stock No.	Miller No.	Specs.	Description	Size Inches L. W. D.	Each
13A5133	8805	20 KHz P/P	Ratio Detector	3/4x1/2x1/2	\$2.52
13A5134	8806	20 KHz P/P	Discriminator	3/4x1/2x1/2	2.52
13A5135	8807	6 db. 15 KHz	Double Tuned I.F.	3/4x1/2x1/2	2.52
13A5136	8808*	100k input	Discriminator Pri.	3/4x1/2x1/2	2.30
13A5137	8809*	20 KHz P/P	Discriminator Sec.	3/4x1/2x1/2	2.30
13A5138	8810	50k-800	Single Tuned I.F.	3/4x1/2x1/2	1.80
13A5139	8811	30k-500	Single Tuned I.F.	3/4x1/2x1/2	1.80
13A5140	8812	20k-5k	Single Tuned I.F.	3/4x1/2x1/2	1.80
13A5141	8813	Oscillator (455 KHz I.F.)	(Tuning Cap. 78 to 110 pf. Max.)	3/4x1/2x1/2	1.80
13A5142	8814	70k-800	Single Tuned I.F. with Mechanical Filter	1 1/2x1 1/2x1 1/2	3.21

*To be used as a pair

455 KHz SOLID STATE I.F. STRIP



Pre-tuned strip gives 8KHz selectivity at 6db when 8901B input transformer is used. Use without 8901B for less selectivity. Gain 45db.

Stock No.	Miller No.	Description	Size	Each
13A5179	8901B	Input Transformer	13/32"x13/32"x5/8"	\$2.49
13A5180	8902B	I.F. Strip	1.5"x5.5"x.51"	5.61
13A5181	8903B	8901B and 8902B supplied together		6.60

STEREO MULTIPLEX COILS



Small 1359 and 1360 coils for fine performance. 1361 and 1362 larger coils give better channel separation. Use 1 38KHz and 2 19KHz coils for each Multiplex Stereo system. Designed for one Motorola HEP594 or HEP595 IC listed on HEP Semiconductor pages, or with Motorola IC 1304 or 1305.

Stock No.	Miller No.	Frequency	Can Size	Each
13A5175	1359	19KHz	.402"x.402"x.591"	\$1.80
13A5176	1360	38KHz	.402"x.402"x.591"	1.80
13A5177	1361	19KHz	.591"x.591"x.748"	1.98
13A5178	1362	38KHz	.591"x.591"x.748"	1.98

MILLER HIGH Q FERRITE ROD AM ANTENNAS



- ① Adjustable Sub-Miniature. 6300—3/8x2 1/4"; 2002—1/2x2 1/2". Mounts with clips.

Stk. No.	Type	For Set Tube	Tunes With	Net Each
13A5145	6300		350-450 Pfd.	\$1.52
13A5146	2002	Transistor	250-450 Pfd.	1.80
- ② Flat Style. 1/4x3/4x3 3/4". Remarkably sensitive.

Stk. No.	Type	Tunes With	Net Each
13A5147	2004	365 Pfd.	2.55
13A5148	2005	130 Pfd.	2.55
- ③ Long Loop-Rod. Highest efficiency. 705A, 3/4x9 1/2". 2000. 3/4x9".

Stk. No.	Type	Tunes With	Net Each
13A5149	705A	300-400 Pfd.	\$2.86
13A5144	2000	365 Pfd.	2.58

SUPEREX POWERFUL RADIO ANTENNAS

REPLACES LOOPS AND ANTENNA HANKS FOR GREATLY IMPROVED AM PERFORMANCE



- 1 EXTRA POWERFUL 7" KING-SIZE LOOPSTICK

Stock No.	Model	For Set Tube	Tunes With	Net Each	6 at Each
13A5003	L-7		365-410 pf	\$1.59	\$1.35
- 2 POPULAR "VARI-LOOPSTICK" — 2" x 7/16" dia.

Stock No.	Type	Tunes With	Net Each
13A5004	*VL Tube	365-410 pf	.69

*With adjustable knob for tuning. Use for tiny crystal radios. too.
- 3 POWERFUL "VARI-TENNA" — 2" x 7/16" dia.

Stock No.	Type	Tunes With	Net Each
13A5005	VT Tube	365-410 pf	.89
- 3 TRANSISTOR LOOPSTICK — 2" x 7/16" dia.

Stock No.	Type	Tunes With	Net Each
13A5006	VLT-240 Transistor	365-410 pf	.89
- 4 SUPER ENERGIZED FERRI-LOOPSTICK — Adjustable 4-1/2" max. x 3/8"

Stock No.	Type	Tunes With	Net Each
13A5008	EFL Tube	365-410 pf	1.09

BUSS FUSES AND HOLDERS

BUSS GLASS TUBE FUSES

Formerly Called 3AG



Quick-acting general purpose fuses for radios, amplifiers, etc. Rated 250 V. UL listed. Size 1/4" x 1/4". *125 V.

Stock No.	Type	Amps Rating	Boxes of Five		
			1-19	20-99	100-199
12A8000	AGC	1/500	\$7.15	\$5.95	\$5.08
12A8001	AGC	1/200	3.10	2.60	2.21
12A8002	AGC	1/100	2.65	2.20	1.87
12A8003	AGC	1/32	2.25	1.90	1.62
12A8006	AGC	1/4	1.15	.95	.81
12A8007	AGC	1/2	1.15	.95	.81
12A8008	AGC	15	1.15	.95	.81
12A8009	AGC	175	1.15	.95	.81
12A8010	AGC	3/4	1.15	.95	.81
12A8011	AGC	1	.70	.60	.51
12A8012	AGC	3/10	.70	.60	.51
12A8013	AGC	3/8	.70	.60	.51
12A8014	AGC	1/2	.70	.60	.51
12A8015	AGC	3/4	.70	.60	.51
12A8016	AGC	1	.48	.43	.37
12A8017	AGC	1 1/2	.48	.43	.37
12A8018	AGC	2	.48	.43	.37
12A8019	AGC	3	.48	.43	.37
12A8020	MTH	4	.55	.48	.41
12A8021	MTH	5	.55	.48	.41
12A8022	MTH	6	.55	.48	.41
12A8023	GLH	8"	.85	.70	.60
12A8024	GLH	10"	.85	.70	.60

ABC CERAMIC FUSES

Formerly Called 3AB

Size 1/4 x 1/4". High interrupting capacity for use on circuits delivering as high as 25,000 amps at 125 V. or 10,000 amps at 250 V. *125 V.

Stock No.	Type	Amps Rating	Boxes of Five		
			1-99	100-999	1000-9999
12A8032	ABC	1	\$0.95	\$0.80	\$0.68
12A8033	ABC	2	.95	.80	.68
12A8034	ABC	3	.95	.80	.68
12A8035	ABC	5	.80	.70	.60
12A8036	ABC	8	.80	.70	.60
12A8037	ABC	10	.80	.70	.60
12A8038	ABC	12	.95	.80	.68
12A8039	ABC	15	.95	.80	.68
12A8040	ABC	20	.95	.80	.68
12A8110	ABC	25"	1.25	1.05	.89
12A8109	ABC	30"	1.25	1.05	.89

LOW VOLTAGE FUSES

1/4" dia., with various lengths shown.

BUSS AGC FUSES, 32 VOLT

Stock No.	Amps Rating	Lgth. Ins.	Boxes of Five		
			1-19	20-99	100-199
12A8025	4	1 1/4	\$0.48	\$0.43	\$0.37
12A8026	5	1 1/4	.38	.33	.28
12A8027	7 1/2	1 1/4	.38	.33	.28
12A8028	10	1 1/4	.38	.33	.28
12A8029	15	1 1/4	.38	.33	.28
12A8111	20	1 1/4	.38	.33	.28
12A8030	25	1 1/4	.38	.33	.28
12A8031	30	1 1/4	.38	.33	.28

BUSS SFE FUSES, 32 VOLT

Stock No.	Amps Rating	Lgth. Ins.	Boxes of Five		
			1-19	20-99	100-199
12A8041	4	3/4	.38	.33	.28
12A8042	6	3/4	.38	.33	.28
12A8043	7 1/2	3/4	.38	.33	.28
12A8044	9	3/4	.38	.33	.28
12A8045	14	1 1/4	.38	.33	.28
12A8046	20	1 1/4	.38	.33	.28
12A8047	30	1 1/4	.38	.33	.28

AGA FUSES, 32 VOLT

Stock No.	Amps Rating	Lgth. Ins.	Boxes of Five		
			1-19	20-99	100-199
12A1237	1	3/8	.48	.43	.37
12A1238	2	3/8	.48	.43	.37
12A1240	3	3/8	.48	.43	.37
12A8181	5	3/8	.38	.33	.28
12A8182	7.5	3/8	.38	.33	.28
12A8183	10	3/8	.38	.33	.28
12A8184	20	3/8	.38	.33	.28
12A8185	30	3/8	.38	.33	.28

AGW FUSES, 32 VOLT

Stock No.	Amps Rating	Lgth. Ins.	Boxes of Five		
			1-19	20-99	100-199
12A1306	2 1/2	3/8	.48	.43	.37
12A1307	4	3/8	.48	.43	.37
12A1308	6	3/8	.38	.33	.28
12A8196	7 1/2	3/8	.38	.33	.28
12A8188	15	3/8	.38	.33	.28
12A8187	20	3/8	.38	.33	.28
12A8188	30	3/8	.38	.33	.28

INSULATED TWIN CLIPS

For easy replacement of TV pigtail fuses without soldering. Takes ordinary fuse without pigtail on one side. Other side snaps on to blown pigtail fuse in TV set. Buss 3434 No. 12A828. Ea. 19¢ 10 @ Each. 16¢

FUSETRON FUSES

Dual-Element, Slow Blowing Formerly Called 3AG



High time lag withstands heavy surges — quick on shorts. Used in circuits having high inductive or capacitive starting loads. Sizes 1/100 to 1 for 250 V. UL listed; 1/2 to 10 for 32 V. 1 1/4 x 1/4".

Stock No.	Buss No.	Amps Rating	Boxes of Five		
			1-19	20-99	100-199
12A821	MDL	1/100	\$2.00	\$1.65	\$1.40
12A8061	MDL	1/2	2.00	1.65	1.40
12A8062	MDL	1/4	1.50	1.25	1.06
12A8063	MDL	1/10	1.50	1.25	1.06
12A8064	MDL	1/8	1.50	1.25	1.06
12A8065	MDL	1/5	1.50	1.25	1.06
12A8066	MDL	3/8	1.50	1.25	1.06
12A8067	MDL	2/10	1.50	1.25	1.06
12A8068	MDL	1/4	1.50	1.25	1.06
12A8069	MDL	3/10	1.50	1.25	1.06
12A8070	MDL	1/2	1.50	1.25	1.06
12A8071	MDL	4/10	1.50	1.25	1.06
12A8072	MDL	1/2	1.50	1.25	1.06
12A8073	MDL	6/10	1.50	1.25	1.06
12A8074	MDL	7/10	1.50	1.25	1.06
12A8075	MDL	3/4	1.50	1.25	1.06
12A8076	MDL	8/10	1.50	1.25	1.06
12A8077	MDL	1	1.50	1.25	1.06
12A8078	MDL	1 1/2	1.40	1.20	1.02
12A8079	MDL	1 1/4	1.40	1.20	1.02
12A8080	MDL	1 1/2	1.40	1.20	1.02
12A8081	MDL	1 6/10	1.40	1.20	1.02
12A8082	MDL	2	1.40	1.20	1.02
12A8083	MDL	2 1/2	1.15	.95	.81
12A8084	MDX	3	1.15	.95	.81
12A8085	MDX	3 2/10	1.15	.95	.81
12A8086	MDX	4	1.15	.95	.81
12A8087	MDX	5	1.15	.95	.81
12A8088	MDX	6 1/4	1.30	1.10	.94
12A8089	MDX	7	1.30	1.10	.94
12A8090	MDL	8	1.15	.95	.81
12A8091	MDL	10	1.15	.95	.81
12A8092	MDL	15	1.15	.95	.81
12A8093	MDL	20	1.15	.95	.81
12A8094	MDL	25	1.15	.95	.81

BUSS AGX FAST ACTING FUSES

Formerly Called 8AG



For protection of delicate equipment, meters, etc. Glass enclosed; 1 x 1/4" dia. Provide high speed action. UL listed. Voltage rating: 1/200 to 2, 250 V; 3 and 5, 125 V.

Stock No.	Amps Rating	Boxes of Five		
		1-19	20-99	100-199
12B863	1/500	\$7.15	\$5.95	\$5.08
12A8095	1/200	3.10	2.60	2.21
12A8096	1/100	2.65	2.20	1.87
12A8097	1/2	2.25	1.90	1.62
12A8098	1/4	1.50	1.25	1.06
12A8099	1/8	1.15	.95	.81
12A8100	1/5	.70	.60	.51
12A8101	3/8	.70	.60	.51
12A8102	1/2	.70	.60	.51
12A8103	3/4	.70	.60	.51
12A8104	1	.48	.43	.37
12A8105	1 1/2	.48	.43	.37
12A8106	2	.48	.43	.37
12A8107	3	.48	.43	.37
12A8108	5	.38	.33	.28

BUSS AGS FUSES

Formerly Called 4AG

Stock No.	Amps Rating	Volts Rating	Boxes of Five		
			1-19	20-99	100-199
12A8114	1	250	.70	.60	.51
12A8115	2	250	.70	.60	.51
12A8116	3	250	.70	.60	.51
12A8117	5	32	.60	.50	.43
12A8118	10	32	.60	.50	.43
12A8119	15	32	.60	.50	.43
12A8120	20	32	.60	.50	.43
12A8121	25	32	.60	.50	.43
12A8122	30	32	.60	.50	.43
12A8123	40	32	.70	.60	.51

For 1/4" dia. fuses. Eliminates danger of breaking fuses or damaging fuse clips. 12A8112. FPL. Each 82c 10 @ Each. 69c

LIMITED CURRENT BAYONET TYPE C AND N FUSES



Design safeguards against use of wrong size and type of fuse. Fit only lock-type bayonet holders. UL listed.

Stock No.	Amps Rating	Boxes of Five		
		1-19	20-99	100-199
12A8151	1/4	\$0.85	\$0.75	\$0.64
12A8152	3/10	.85	.75	.64
12A8153	3/8	.85	.75	.64
12A8154	1/2	.85	.75	.64
12A8155	3/4	.85	.75	.64
12A8156	1	.55	.45	.38
12A8157	1 1/4	.55	.45	.38
12A8158	2	.55	.45	.38
12A8159	2 1/2	.55	.45	.38
12A8160	3	.55	.45	.38
12A8161	3 1/2	.60	.50	.43
12A8162	7	.60	.50	.43

Fustron Fuse Six-Blo Type N

Stock No.	Amps Rating	Boxes of Five		
		1-19	20-99	100-199
12A8163	2/10	\$1.50	\$1.25	\$1.06
12A8164	1/4	1.50	1.25	1.06
12A8165	3/10	1.50	1.25	1.06
12A8166	4/10	1.50	1.25	1.06
12A8167	1/2	1.50	1.25	1.06
12A8168	6/10	1.50	1.25	1.06
12A8169	7/10	1.50	1.25	1.06
12A8170	3/4	1.50	1.25	1.06
12A8171	1	1.50	1.25	1.06
12A8172	1 1/4	1.40	1.20	1.02
12A8173	1 6/10	1.40	1.20	1.02
12A8174	1 3/4	1.40	1.20	1.02</

FUSES, MINIATURE LAMPS

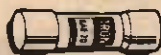


MINIATURE INDICATOR AND FLASHLIGHT LAMPS

Stock No.	Mfg. No.	Volts	Amps.	Fig.	Each	Pkg. of 10	Stock No.	Mfg. No.	Volts	Amps.	Fig.	Each	Pkg. of 10	Stock No.	Mfg. No.	Volts	Amps.	Fig.	Each	Pkg. of 10
12A4066	PR2	2.4	.5	⊙	\$0.26	\$1.59	12A4081	50	7.5	.22	⊙	\$0.22	\$1.31	12A4076	407+	4.9	.3	⊙	\$0.30	\$1.80
12A4067	PR3	3.57	.5	⊙	.26	1.69	12A4057	51	7.5	.22	⊙	.19	1.15	12A4077	502	5.1	.15	⊙	.24	1.43
12A4068	PR4	2.33	.27	⊙	.27	1.60	12A4058	53	14.4	.12	⊙	.21	1.28	12A4481	718	5	.115	⊙	3.34	20.05
12A4074	6S6	115	6 W.	⊙	.44	2.10	12A4059	55	7.0	.41	⊙	.22	1.29	12A4064	1133	6.2	3.91	⊙	.76	4.57
12A4075	6S6DC	115	6 W.	⊙	.43	3.70	12A4060	57	14.0	.24	⊙	.22	1.31	12A4063	1156	12.8	2.1	⊙	.59	3.52
12A4087	PR6	2.47	.3	⊙	.26	1.59	12A4494	93	12.8	1.04	⊙	.43	2.57	12A4051	1490	3.2	.16	⊙	.30	1.77
12A4069	PR12	5.95	.5	⊙	.27	1.60	12A4092	112	1.2	.22	⊙	.22	1.34	12A4065	1493	6.5	2.75	⊙	1.74	10.42
12A4088	12	6.3	.15	⊙	.36	2.13	12A4093	158	14.0	.24	⊙	.28	1.65	12A4085	1768	6.0	.2	⊙	1.29	7.72
12A4066	14	2.47	.3	⊙	.22	1.34	12A4094	159	6.3	.15	⊙	.35	2.11	12A4052	1815	14	.2	⊙	.32	1.94
12A4089	15	7.0	.4	⊙	.71	4.27	12A4070	222	2.25	.25	⊙	.22	1.34	12A4053	1819	28	.04	⊙	.47	2.02
12A4090	19	14.4	.1	⊙	.50	2.87	12A4095	224	2.15	.22	⊙	.31	1.86	12A4054	1829	28	.07	⊙	.50	2.99
12A4040	40	6.3	.15	⊙	.18	1.10	12A4050	313	28	.17	⊙	.46	2.76	12A4055	1847	6.3	.15	⊙	.26	1.53
12A4041	41	2.5	.5	⊙	.36	2.14	12A4061	327	28	.04	⊙	.91	5.44	12A4056	1891	14	.24	⊙	.23	1.37
12A4045	43	2.5	.5	⊙	.36	2.14	12A4062	328	6	.2	⊙	.72	4.30	⊙ 6S6 CANDELABRA BASE 110-120 V. BULB						
12A4046	44	6.3	.25	⊙	.19	1.11	12A4081	330	14	.08	⊙	1.21	7.28	6 watts, clear glass, candelabra base, For Indicator and other needs.						
12A4047	45	3.2	.35	⊙	.31	1.83	12A4096	334	28	.04	⊙	1.36	8.16	Each Package of 10, Per Pkg.						
12A4042	46	6.3	.25	⊙	.18	1.09	12A4044	335	28	.04	⊙	2.13	12.76	No. 12A4074.....\$0.24 1-9 Pkg.....\$2.10 10-99 Pkg.....\$1.80						
12A4049	47	6.3	.15	⊙	.19	1.11	12A4082	336	14	.08	⊙	2.08	12.47	BAYONET BASE 6S60C						
12A4043	48	2.0	.06	⊙	.36	2.14	12A4083	337	6	.2	⊙	2.40	14.39	Same as above except with double contact bayonet base.						
12A4048	49	2.0	.06	⊙	.30	1.80	12A4084	373	14	.08	⊙	2.42	14.53	No. 12A4075.....\$0.43 1-9 Pkg.....\$3.70 10-99 Pkg.....\$3.20						

*Double Contact Candelabra Bayonet Base. †Flasher For Lanterns.

BUSS TRON RECTIFIER FUSES



KAA, KAB, To 30 A.



KAC, KAB, Over 30A

Designed for the protection of semi-conductor rectifiers, SCR's, Thyristors, Solid State Devices or wherever a very fast acting fuse is needed. Test specification: carry 100% of rating; open at 1000 seconds on overloads between 120% and 180% of rating; open within 1 second at 250% of rating. Write for No. 16A1217 for time-current characteristic charts on these and other Tron Fuses.

KAA SERIES
Size 1 1/2" L X 13/32" D. Rated 130 volts

Stock No.	Amps	1-9 Each	10 Up Each
12A8319	1/2	\$1.08	\$0.90
12A8320	1	1.08	.90
12A8321	2	1.08	.90
12A8322	3	1.08	.90
12A8323	5	1.08	.90
12A8324	6	1.08	.90
12A8326	8	1.08	.90
12A8326	10	1.08	.90
12A8327	15	1.08	.90
12A8328	20	1.08	.90
12A8329	25	1.08	.90
12A8330	30	1.08	.90

KAB SERIES
Size: 2" L X 9/16" D. to 30 amps 3-3/16" L X 13/16" D. 50 amps, 3-1/8" L X 1-7/32" D. 70 to 200 amps. Rated 250 volts.

Stk. No.	Amps.	1-9 Ea.	10 Up Ea.
12A8333	1/2	\$1.22	\$1.00
12A8334	1	1.22	1.00
12A8335	2	1.22	1.00
12A8336	3	1.22	1.00
12A8337	4	1.22	1.00
12A8338	5	1.22	1.00
12A8339	6	1.22	1.00
12A8340	7	1.22	1.00
12A8341	8	1.22	1.00
12A8342	9	1.22	1.00
12A8343	10	1.22	1.00
12A8344	12	1.22	1.00
12A8345	15	1.22	1.00
12A8347	20	1.22	1.00
12A8348	25	1.22	1.00
12A8349	30	1.22	1.00
12A8350	50	4.43	3.69
12A8351	70	6.16	5.13
12A8352	80	6.16	5.13
12A8313	90	6.16	5.13
12A8314	100	6.16	5.13
12A8315	125	6.16	5.13
12A8316	150	6.16	5.13
12A8317	175	6.16	5.13
12A8318	200	6.16	5.13

KAC SERIES
Size 2-7/8" L X 9/16" D. Rated 600 volts

Stock No.	Amps	1-9 Each	10 Up Each
12A8331	1	1.63	1.36
12A8332	2	1.63	1.36
12A8353	3	1.63	1.36
12A8354	5	1.63	1.36
12A8355	6	1.63	1.36
12A8356	8	1.63	1.36
12A8357	10	1.63	1.36
12A8358	15	1.63	1.36
12A8359	20	1.63	1.36
12A8360	25	1.63	1.36
12A8361	30	1.63	1.36

SINGLE FUSE BLOCKS FOR TRON FUSES

Stock No.	Bus No.	For Fuse	1-9 Each	10 up Each
12A8365	4515	KAA	\$0.60	\$0.57
12A8366	4386	KAB 1 to 30 A.	.98	.82
12A8367	3531	KAB 50 A.	1.87	1.56
12A8368	3556	KAB 70 to 200 A	2.17	1.80
12A8369	3595	KAC	1.58	1.31

FUSE MOUNTINGS

- ① 12A1129. Bus 3828-1. For AGX 1" fuse.
- ② 12A1130. Bus 3823-1. For AGC 1 1/4" fuse. Your Choice Each
- 1-99 .26c 100-499 .22c 500 Up..... 17c
- Spring clips for any length 1/4" dia. fuse.
- ③ 12A1134. Bus 5682-41. 1-99 Each.....4c
- 100-499 Ea.....\$0.028 500 Up, Ea.....\$0.024
- ④ 12A8362. Bus 1A1119-10 for P.C. board.
- 1-99 Ea. .9¢ 100-499 Ea.....7¢ 500 Up Each .6¢



FUSE ASSORTMENTS

With handy inventory feature. Has all fuses normally needed when box is removed label shows what size fuse needs reordering. 255 Service Fuse Assortment, 30 different sizes. Wt. 3 1/2 lbs. No. 12A8193. Mfg. No. 255. Each.....\$42.96

133 Special Electronic Fuse Assortment, 26 different sizes. No. 12A8194. Mfg. No. 130. Each.....\$22.10



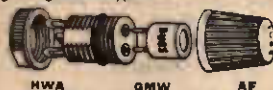
GE NEON AND ARGON LAMPS



NE neon lamps glow orange-red. AR argon bulbs glow blue with limited ultra-violet content. Screw base types have built-in resistor for 125 volts, others require resistor shown in series for 125 volt operation

Fig.	Stock No.	Lamp No.	Nom. Watts	Nom. MA	External Resistor	Base	Each	10 Each
1	12A4133	NE20(C7A)	1/12	.7	100K	SC Mid Flange	\$1.46	\$0.874
2	12A4073	NE2E(A9A)	1/12	.7	100K	Wire leads	.22	.13
2	12A4142	NE2H(C2A)	1/4	1.9	30K	Wire leads	.22	.13
1	12A4134	NE2J(C9A)	1/4	1.9	30K	SC Mid-Flange	1.46	.874
3	12A4130	NE30(J5A)	1	1.2	none	Med. Screw	2.73	1.637
4	12A4135	NE32(L5A)	1	1.2	7.5k	OC. Bayonet	2.31	1.384
5	12A4131	NE34(R2A)	2	18	none	Med. Screw	3.59	2.152
5	12A4132	NE40(R6A)	3	30	none	Med. Screw	5.28	3.168
6	12A4141	NE45(B7A)	1/4	2	none	Cand. Screw	1.87	1.00
7	12A4136	NE48(B9A)	1/4	2	30K	OC. Bayonet	1.36	.814
8	12A4071	NE51(B1A)	1/25	.3	220K	Min. Bayonet	.48	.289
8	12A4072	NE51H(B2A)	1/7	1.2	47K	Min. Bayonet	.48	.289
5	12A4137	AR1(W1A)	2	18	none	Med. Screw	3.85	2.306
6	12A4138	AR3(J2A)	1/4	3.5	none	Cand. Screw	1.72	1.031
7	12A4139	AR4(J3A)	1/4	3.5	15K	OC. Bayonet	1.54	.922
2	12A4140	AR9(K4A)	1/25	3	200K	Wire leads	.37	.222

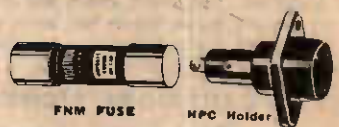
* High Brightness Type



SUB-MINIATURE GMW FUSES AND FUSEHOLDER

Body size of fuse only .27 x .25". Dia. of holder body .375". Fuse has transparent window for visual inspection of element. Fuse may be used alone for mounting into printed circuit boards. HWA holder can be panel mounted or soldered on printed circuit boards. AF knob makes holder waterproof. Carry 100%, open at 200% within 10 seconds.

Stock No.	Type	Amp Rating	Box of 10
12A8214	GMW	1/200	\$8.80 \$7.40 \$6.29
12A8215	GMW	1/100	8.80 7.40 6.29
12A8216	GMW	1/64	8.80 7.40 6.29
12A8217	GMW	1/32	8.80 7.40 6.29
12A8218	GMW	1/16	8.80 7.40 6.29
12A8219	GMW	1/10	6.80 5.70 4.85
12A8220	GMW	2/10	6.80 5.70 4.85
12A8221	GMW	1/4	6.80 5.70 4.85
12A8227	GMW	3/10	6.80 5.70 4.85
12A8228	GMW	4/10	6.80 5.70 4.85
12A8229	GMW	1/2	6.80 5.70 4.85
12A8223	GMW	3/4	6.80 5.70 4.85
12A8224	GMW	1	6.80 5.70 4.85
12A8225	GMW	2	6.80 5.70 4.85
12A8226	GMW	5	6.80 5.70 4.85



FNM FUSETRON FUSES

Qual-Element. Slow Blowing Fibre Tube, 1/2 x 1 1/2". Long time lag prevents needless blows from starting currents or surges—yet quick on shorts. Rated 250 V, UL listed; *125 V.

Stock No.	Bus No.	Amps Rating	Box of 10
12A8197	FNM	1/10	\$4.00 \$3.40
12A8198	FNM	2/10	4.00 3.40
12A8199	FNM	1/2	4.00 3.40
12A8200	FNM	1	4.00 3.40
12A8201	FNM	1 1/10	4.00 3.40
12A8202	FNM	2	4.00 3.40
12A8203	FNM	2 1/2	4.00 3.40
12A8204	FNM	3 1/10	4.00 3.40
16A8205	FNM	4	4.00 3.40
12A8206	FNM	5	4.00 3.40
12A8207	FNM	8	4.00 3.40
12A8208	FNM	10	4.00 3.40
12A8209	FNM	12 1/2	4.00 3.40
12A8210	FNM	15*	4.00 3.40

HPC PANEL MOUNTED FUSEHOLDER

Molded phenolic. Screw knob. For 1/2 x 1 1/2" fuse. No. 12A8211 1-99 Each.....75¢ 100-499 Ea.....63¢ 500-999 Ea.....54¢

SYLVANIA INDICATOR LIGHTS



INDICATOR SOCKETS AND COLOR CAPS FOR ESB LAMPS

- ① Strip Sockets for ESB Indicator Lamps. 12 sockets on 1/2" centers. Easily cut to number desired. With 3 Tinnerman clips for mtg. Combination solder/.205" quick disconnect terminal. Black Lexan. Size 6" long x 1/4" wide. Shpg. wt. 3 ozs.
No. 12A1678. Sylvania 33250-0. Individual Contacts.
Each..... \$3.62 10-99 Ea. \$3.13 100 up Ea. \$2.66
No. 12A4113 Sylvania 31250-0. Common Ground.
Each..... \$3.41 10-99 Ea. \$2.95 100 up Ea. \$2.51
Individual Sockets for ESB Indicator Lamps. Each socket with Tinnerman clip. Combination solder/.205" quick-disconnect terminal. Black color. 1/2" mtg. hole. Shpg. wt. 2 ozs.
② No. 12A1676. Sylvania 30151-0. Rectangular Nylon Socket.
③ No. 12A1677. Sylvania 30150-0. Round Phenolic Socket.
Choice Each..... 27' 10-99 Ea. 23' 100 up Ea. 20'
④ Color Caps. Fit directly on top of ESB Lamps. Plastic profax caps for lamps rated below 1.5 watts. Specify Color: Red, Yellow, White, Green or Blue.
No. 12M1678. Sylvania 38001-0 thru 38005-0.
Each..... 10' 10-99 Ea. 8' 100 up Ea. 7'



HOUSINGS & LENS CAPS FOR ESB & PSB LAMPS

- ① Lamp Housing for ESB Indicator Lamps. Black nylon. Tinnerman clip for mtg. 1/2" mtg. hole. Combination solder/.205" quick-disconnect terminals. Order round or square lens caps below.
No. 12A1719. Sylvania 30153-0 Housing Only.
Each..... 36' 10-99 Ea. 31' 100 up Ea. 26'
② Lamp Housing for PSB Pilot Lamps. Black phenolic. UL approved 125 volts. Tinnerman clips for mtg. 1/2" mtg. hole. Combination solder/.205" quick-disconnect terminals. Order round or square lens caps below.
No. 12A4111. Sylvania 30152-0 Housing Only.
Each..... 38' 10-99 Ea. 33' 100 up Ea. 28'
Polycarbonate Snap-On Lens Caps for 30152-0 and 30153-0 housings. Specify Color: Red, Clear, Amber, White, Green or Blue.
③ No. 12M1720. Round 3/4" Dia. Sylvania 30160-0 thru 30165-0.
④ No. 12M1721. Square 3/4" Sq. Sylvania 30170-0 thru 30175-0.
Choice
Each..... 17' 10-99 Ea. 15' 100 up Ea. 13'



PILOT LAMP HOUSINGS & LENS FOR PSB LAMPS

- ① Lamp Housing for PSB Pilot Lamps. Phenolic body with threaded 1/4" metal bushing and bezel. Mounts in panels up to 1/2" thick. With washer and mtg. nut. UL approved for 120 volts. Combination solder/.205" quick-disconnect terminals. Order Lens below.
No. 12A1679. Sylvania 30099-0 Housing only.
Each..... 88' 10-99 Ea. 76' 100 up Ea. 65'
Lens for 30099-0 Housing above. Sylvania 30100-0 series
② 12M1680. Jeweled Lens. Specify Red, Green, Blue or Amber.
Each..... 42' 10-99 Ea. 36' 100 up Ea. 31'
③ 12M1681. Transparent, Specify Red, Green, Blue, Amber or Clear.
④ 12M1682. Fluted, Specify Red, Green, Blue, Amber or Yellow.
⑤ 12M1683. Translucent, Specify Red, Green, Yellow, White.
Choice Each..... 19' 10-99 Ea. 17' 100 up Ea. 14'

CARTRIDGE LIGHT HOUSING AND LENS



- ① Housing for 900 Series Indicator Lamps shown at right. Black anodized aluminum to Mil. Spec. MIL-A-8625. Phenolic base insulation rated 250 V. Mounts in 3/4" hole. Solder terminals. 1 1/4" long overall. Order Lens below.
No. 12A1716. Sylvania SM-1 30097-0.
Each..... \$1.04 10-99 Ea. 89' 100 up Ea. 76'

- ② Housing for Pilot Lamps number 21 thru 81 shown at right. 1 3/8" long overall. Otherwise same as above. Order Lens below.
No. 12A1710. Sylvania SM-2 30095-0.
Each..... \$1.04 10-99 Ea. 89' 100 up Ea. 76'
Polycarbonate Screw-On Cartridge Lens for SM-1 and SM-2 housings. 1/2" diameter.
③ No. 12M1717. Transparent. Sylvania 30140-0 thru 30144-0. Specify Color: Amber, Clear, Red, Blue or Green.
④ No. 12M1718. Translucent. Sylvania 30145-0 thru 30147-0. Specify Color: Yellow, White, Red, Blue or Green.
Choice Each..... 44' 10-99 Ea. 38' 100 up Ea. 33'

PILOT LIGHT JEWELS

- All purpose jewel lenses. Mount with nut in panels 3/8" thick.
② Specify Choice of Color: Red, Green or Amber.
- | Stk. No. | Size | Lens | Fig. | 1-9 Ea. | 10-24 Ea. | 25-99 Ea. | 100-249 Ea. |
|----------|------|---------|------|---------|-----------|-----------|-------------|
| 12M1110 | 1" | Faceted | ① | \$1.04 | \$0.94 | \$0.87 | \$0.78 |
| 12M1159 | 1/2" | Smooth | ② | .21 | .19 | .18 | .16 |
| 12M1710 | 1/2" | Faceted | ③ | .21 | .19 | .18 | .16 |
| 12M830 | 3/4" | Smooth | ④ | .18 | .16 | .15 | .14 |
| 12M709 | 3/4" | Faceted | ⑤ | .18 | .16 | .15 | .14 |

PSB PILOT LAMPS — SLIDE BASE

Engineered to give a minimum of 5000 hours life. 1.075" L. x .25" dia.

Stk. No.	Lamp No.	Volts	Amps	Each	1-9 Pkg.	10-99 Pkg.
12A1684	6PSB	6	.14	\$0.90	\$5.46	\$4.64
12A1685	12PSB	12	.17	.90	5.46	4.64
12A1686	24PSB	24	.073	.90	5.46	4.64
12A1687	28PSB	28	.04	.90	5.46	4.64
12A1688	48PSB	48	.053	.90	5.46	4.64
12A1689	60PSB	60	.05	.90	5.46	4.64
12A1690	120PSB	120	.025	.90	5.46	4.64

ESB INDICATOR LAMPS — SLIDE BASE

Engineered to give a minimum of 5000 hours life. .875" L. x .25" dia.

Stk. No.	Lamp No.	Volts	Amps	Each	1-9 Pkg.	10-99 Pkg.
12A1698	6ESB	6	.04	\$0.82	\$4.97	\$4.23
12A1699	12ESB	12	.04	.82	4.97	4.23
12A1700	24ESB	24	.04	.82	4.97	4.23
12A1701	28ESB	28	.04	.82	4.97	4.23
12A1702	48ESB	48	.04	1.09	6.62	5.63

INDICATOR CARTRIDGE LAMPS — SERIES 900

Fits SM-1 cartridge lamp housing. 1.142" long less pins. .328" dia.

Stk. No.	Lamp No.	Volts	Amps	Each	1-9 Pkg.	10-99 Pkg.
12A1711	909	6	.04	\$1.36	\$8.24	\$7.04
12A1712	918	12	.04	1.36	8.24	7.04
12A4114	934	24	.04	1.37	8.28	7.04
12A1714	938	28	.04	1.37	8.28	7.04
12A1715	941	48	.04	1.50	9.10	7.74

PILOT CARTRIDGE LAMPS

Fits SM-2 cartridge lamp housing. 1.328" long less pins. .328" dia.

Stk. No.	Lamp No.	Volts	Amps	Each	1-9 Pkg.	10-99 Pkg.
12A1703	21	6	.14	\$1.36	\$8.28	\$7.04
12A1704	31	12	.17	1.36	8.28	7.04
12A1705	41	24	.073	1.36	8.28	7.04
12A1706	51	28	.04	1.36	8.28	7.04
12A1707	61	48	.053	1.36	8.28	7.04
12A1708	71	60	.05	1.36	8.28	7.04
12A1709	81	120	.025	1.36	8.28	7.04

ES INDICATOR LAMPS WITH WIRE LEADS

.875" long. .25" dia. 7/8" wire leads.

Stk. No.	Lamp No.	Volts	Amps	Each	1-9 Pkg.	10-99 Pkg.
12A4115	6ES	6	.04	\$0.62	\$3.80	\$3.23
12A4116	12ES	12	.04	.62	3.80	3.23
12A4117	24ES	24	.04	.62	3.80	3.23
12A4118	28ES	28	.04	.62	3.80	3.23
12A4119	48ES	48	.04	.87	5.29	4.50

MINIATURE BAYONET BASE PILOT LAMPS

Replaces any T3/4 miniature bayonet lamp such as type 44, 47, etc. May be used in any miniature bayonet pilot light assembly. Engineered for 5000 hours minimum life.

Stk. No.	Lamp No.	Volts	Amps	Each	1-9 Pkg.	10-99 Pkg.
12A1691	6MB	6	.14	\$0.98	\$5.96	\$5.07
12A1692	12MB	12	.17	.98	5.96	5.07
12A1693	24MB	24	.073	.98	5.96	5.07
12A1694	28MB	28	.04	.98	5.96	5.07
12A1695	48MB	48	.053	.90	5.46	4.64
12A1696	60MB	60	.05	.90	5.46	4.64
12A1697	120MB	120	.025	.90	5.46	4.64

ANNUNCIATOR LAMPS

Long-life with high brightness. Unique light control is made possible by self-contained reflector. 5000 hour minimum life. 1 3/8" long x 1/2" wide at the reflector.

Stock No.	Type	Volts	Base	Each	1-9 Pkg.	10-99 Pkg.
12A4482	12RC	12	Candelabra Screw	\$1.36	\$8.28	\$7.04
12A4483	60RC	60	Candelabra Screw	1.36	8.28	7.04
12A4484	120RC	120	Candelabra Screw	1.36	8.28	7.04
12A4485	12RB	12	Miniature Bayonet	1.36	8.28	7.04
12A4486	60RB	60	Miniature Bayonet	1.36	8.28	7.04
12A4487	120RB	120	Miniature Bayonet	1.36	8.28	7.04

WORKMAN AMP FUSES

Protective fusing device. Exact replacement for chemical fuses. Meets manufacturers specifications. Select same color as fuse being replaced.



Stk. No.	Workman No.	Color	Stk. No.	Workman No.	Color
12A2431	W3-1	Red	12A2435	W1200-1	Green
12A8371	W70-1P*	Powder Blue	12A2436	W1400-1	Grey
12A8372	W225-1	Ivory	12A2437	W1700-1	Yellow
12A8243	W350-1	Kelly Green	12A2438	W2000-1	Maroon
12A2432	W400-1	Blue	12A8375	W2500-1	Orchid
12A8373	W400-1P*	Blue	12A8242	W2700-1	Brown
12A2433	W450-1	Pink	12A8376	W3100-1	Tan
12A2434	W500-1	Black	12A8377	W3250-2	Orange
12A8374	W500-1P*	Black	12A2439	W200-10	Damper Circuit
12A8241	W700-1	Turquoise	* With leads attached		
12A2430	W1000-1	White			

Your Choice Each..... 68' 10 Assorted Each..... 51'

WORKMAN CIRCUIT BREAKERS

Universal replacement for radio, TV, etc. Top quality American made. Recognized by U.L. Circuit is re-fused by pushing and releasing button.

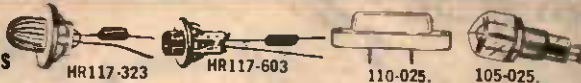
Specify Stock No. of Type Wanted.

Stock No.	Mfg. No.	Break Current	Carry Current	Stock No.	Mfg. No.	Break Current	Carry Current
12A1997	FA1	1 Amp	.65 Amp	12A1998	FA3.5	3.5 Amp	2.2 Amp
12A1313	FA1.5	1.5 Amp	1 Amp	12A1324	FA4	4 Amp	2.5 Amp
12A1318	FA2	2 Amp	1.25 Amp	12A1325	FA4.5	4.5 Amp	3 Amp
12A1320	FA2.5	2.5 Amp	1.6 Amp	12A1332	FA5	5 Amp	3.25 Amp
12A2480	FA2.75	2.75 Amp	2 Amp	12A1999	FA5.5	5.5 Amp	3.6 Amp
12A1323	FA3	3 Amp	1.9 Amp	12A1333	FA6	6 Amp	3.9 Amp
12A2481	FA3.25	3.25 Amp	2.5 Amp	12A1334	FA7	7 Amp	4.14 Amp

Color TV Dual Circuit Breaker. B+ break current 2.75 amp. horizontal break current .65 amp.

12A2482. Workman FAD. Each..... 99c 10 @ Each..... 94'

DRAKE NEON INDICATORS



Economical Indicator Lights HR117. Attractive inexpensive indicator assemblies. Macro-dome plastic fluted lens extends 1/2" in front of panel, 1/2" behind panel face. Mounts in 1/2" dia. hole. Max. panel thickness 3/8". High brightness non-replaceable type neon lamp with attached limiting resistor and leads for direct connection to 110-125 V. AC or DC. Specify choice of color: Red, Amber or Clear.

No. 12M993. Drake HR117-323
1-9 Each.....42c 10-24 Each.....38c 25-99 Each.....35c 100 Up Each.....32c

Cylindrical Plastic Lens. Extends 1/4" in front of panel, 5/8" behind panel face. Otherwise as above. Specify choice of color: Red, Amber or Clear.

No. 12M4106. Drake HR117-603
1-9 Each.....42c 10-24 Each.....38c 25-99 Each.....35c 100 Up Each.....32c

Flushlite Indicator Lights. One-piece translucent nylon construction. Mounts with 2 screws. Mtg. centers 1 1/2". Base 3/8" x 1 1/8". High brightness non-replaceable neon lamp with built-in resistor for direct connection to 110-125 V. AC or DC. Solder lug terminals. Specify choice of color: Red, Amber, White or Clear.

No. 12M994. Drake 110-025.
1-9 Each.....56c 10-24 Each.....51c 25-99 Each.....47c 100 Up Each.....42c

Postlight Indicator Lights. All polystyrene. Extremely decorative. Lens is 5/8" square, extends 3/8" front of panel, 1 1/2" behind panel face. Mounts in panels up to 3/4" thick. Mounts in 1/2" hole. High brightness non-replaceable neon lamp with built-in resistor for direct connection to 110-125 V. AC or DC. Solder lug terminals. Specify choice of color: Red, Amber or Clear.

No. 12M995. Drake 105-025.
1-9 Each.....92c 10-24 Each.....83c 25-99 Each.....77c 100 Up Each.....69c

DRAKE MONEY-SAVING INDICATOR LIGHTS



Hi-Brightness non-replaceable neon lamp assembly ready to operate on 125 volts AC. Designed for minimum 5000 hour life. 1/3 watt rated. Gives that new modern appearance at very low cost. Choice of two mountings. One-piece nylon body and lens construction. Size: body dia. 3/8". Specify choice of color: Red, White or Amber.

Fig. No.	Drake No.	Description	Mtg. Hole	Length Behind Panel Face
①	12M726	6073-001-534 Snap-In Type flush lens	1/2"	1 1/2"
②	12M727	6073-001-634 Snap-In Type tapered lens	1/2"	1 1/2"
Choice Each 1-9.....59c 10-24 Ea.....53c 25-99 Ea.....49c 100 Up Ea.....44c				
③	12M728	6063-001-534 Tinnerman Nut Mtg. flush lens	3/8"	1 1/2"
④	12M729	6063-001-634 Tinnerman Nut Mtg. tapered lens	3/8"	1 1/2"
Choice Each 1-9.....52c 10-24 Ea.....47c 25-99 Ea.....44c 100 Up Ea.....39c				

"MINEON" NEON GLOW INDICATOR LIGHTS

Cylindrical 11/32" plastic translucent lens projects 9/32" in front of panel. Length behind panel face is 1-3/16". Mount in panel up to 3/8" thick in a 3/8" hole. Solder terminals. High brightness non-replaceable neon lamp with built-in resistor for direct connection to 110-125 volts. Specify choice of color: Red, Yellow, Colorless or Translucent White.



No. 12M715. Drake HR118-604
1-9 Each.....\$1.08 10-24 Each.....97¢ 25-99 Each.....90¢ 100 Up Each.....81¢

MINIATURE BAYONET BASE INDICATOR

Hood type for illuminating front of panel on instruments and equipment. Has miniature bayonet socket for T-3 1/4 bulb. Mounts from front in panels up to 13/32" in 11/16" dia. hole. Bulb replaceable from front. See page 133 for bulb black matte finish.



No. 12B716. Drake 168E
1-9 Each.....\$1.59 10-24 Each.....\$1.43 25-99 Each.....\$1.33 100 Up Each.....\$1.19

DRAKE "TINYLITE" INDICATOR LIGHTS

SMALLEST INDICATOR LIGHTS WITH MIDGET SCREW BASE

REPLACEABLE LAMP

Fully enclosed. Supplied with midget lamp installed. Lamps replaced and units mounted from front of panels up to 1/2" thick, in 1/4" dia. mounting hole on 1/8" centers. Friction device prevents lamps from loosening in use. Lens dia. 3/8". Extends 1/4" in front of panel.



Stock No.	Drake No.	Lgh. Behind Panel Face	Lamp Replacement Voltage	Your Choice Each
12M4107	5126-022-604	1/4"	7	1-9 \$0.91 10-24 \$0.82 25-99 \$0.76 100 Up \$0.68
12M4108	5127-022-604	1/4"	14	.91 .82 .76 .68
12M4109	5128-022-604	1/4"	28	333 1.05 .95 .88 .79

REPLACEMENT LAMPS FOR ABOVE

Stock No.	Drake No.	Voltage	1-9 Each	10-24 Each	100 Up Each
12A4120	162	7	\$0.35	\$0.26	\$0.177
12A4121	163	14	.35	.26	.176
12A4122	333	28	.75	.59	.40



- ① Hooded Panel Light for front panel illumination. Nickel plated hood. 1/2" mtg. hole. Bulb removable from front. For miniature bayonet base lamps. No. 12B247. Johnson 147-329. Each.....\$1.70
- ② 12A1170. Bakelite Base, Double Contact Candelabra. Fits neon lamps NE32, NE48.
- ③ 12A1172. Bakelite Base, Single Contact Candelabra. Fits auto lamp, etc. Choice, 1-24 Each.....79c 25-99 Ea.....65c 100 Up, Ea.....59c
- ④ Millen 33991 Double Contact Candelabra Socket for type 991 VR tube or neon lamps. Also fits standard auto lamps. No. 12A1421. Each.....91c
- ⑤ Bakelite Screw Base for miniature base lamps. No. 12A4079. 1-9 Ea.....26c 10-99 Ea.....23c 100 Up, Ea.....21c
- ⑥ Bakelite Screw Base for candelabra base lamps. No. 12A4080. 1-9 Ea.....26c 10-99 Ea.....23c 100 Up, Ea.....21c
- ⑦ Bakelite Cleat Receptacle for standard screw base lamps. No. 41A311. 1-9 Ea.....39¢ 10-99 Ea.....35¢ 100 Up, Ea.....31¢

1 INCH INDICATOR LIGHTS FOR S6 LAMPS



① Torpedo Wide-View Lens. Use S6 screw base candelabra 115 V. lamp, installed from front, UL and CSA listed. Screw terminals. 2" behind panel, 1" mtg. hole.

Specify Stock No. 12M979 and Color on Orders		
Dialco No.	Dialco No.	Dialco No.
Red 80-0901-0531-301	Green 80-0901-0532-301	Amber 80-0901-0533-301
Choice 1-9	10-24	25-99
Each.....\$2.42	\$2.13	\$1.94
		\$1.76
		\$1.57
		\$1.45

② Faceted 1" lens. 1" mtg. hole. Uses S6, 115 volt bulbs. Chrome plated holder, UL and CSA listed. 2 1/2" length. Less lamp.

Specify Stock No. 12M1165 and Color on Orders		
Dialco No.	Dialco No.	Dialco No.
Red Dialco No. 32-3101-0431-302	Amber Dialco No. 32-3101-0433-302	Clear Dialco No. 32-3101-0437-302
Choice 1-9	10-24	25-99
Each.....\$1.72	\$1.54	\$1.39
		\$1.26
		\$1.13
		\$1.03

③ Oil-tight, Completely Sealed against oil, water or dust. Front lamp replacement. 1" mtg. hole. Chrome finish. Uses S6 115 V. bulbs. UL and CSA listed. Faceted lens.

Specify Stock No. 12M974 and Color on Orders		
Dialco No.	Dialco No.	Dialco No.
Red Dialco No. 103-3101-1331-403	Amber Dialco No. 103-3101-1333-403	Clear Dialco No. 103-3101-1332-403
Choice 1-9	10-24	25-99
Each.....\$3.17	\$2.92	\$2.73
		\$2.37
		\$2.21
		\$2.04

1/2 INCH INDICATOR LIGHTS FOR MINIATURE BAYONET LAMPS



For T3 1/4 incandescent lamps. 2-55 volts. Smooth faced translucent jewels in 1/2" brass holder. Bulb replaceable from front. Mounts in 1/4" hole in panels up to 3/8" thick. 2 1/2" long. UL and CSA listed. Solder terminals. Less lamp.

① WHITE NICKEL FINISH		② 5/8" PLASTIC STOVEPIPE (DDME) LENS	
Specify No. 12M885 and Color Desired		Specify No. 12M885 and Color Desired	
Red Dialco No. 81-9110-0111-102	Green Dialco No. 81-9110-0112-102	Red Dialco No. 81-9110-0111-102	Green Dialco No. 81-9110-0112-102
Amber Dialco No. 81-9110-0113-102	Blue Dialco No. 81-9110-0114-102	Amber Dialco No. 81-9110-0111-102	Clear Dialco No. 81-9110-0115-102
White Dialco No. 81-9110-0115-102	Choice 1-9.....\$1.03	Choice 1-9.....92c	Choice 1-9.....92c
Each 10-24.....96c	25-99.....92c	10-24.....86c	25-99.....82c
250-499.....75c	500-999.....70c	250-499.....67c	500-999.....63c

③ OPEN TYPE 1/2 INCH INDICATOR LIGHTS
1/2" transparent faceted jewel. Bulb replaceable from front of panel. 1/4" mtg. hole.

Specify Stock No. 12M1161 and Color Desired					
Color	Dialco	1-9	10-24	25-99	Prices Each
Red	502-8136-2131-102	71c	66c	62c	58c 54c 51c
Green	502-8136-2132-102	71c	66c	62c	58c 54c 51c
Amber	502-8136-2133-102	71c	66c	62c	58c 54c 51c

④ ANGLE BRACKET 1/2 INCH INDICATOR LIGHT
Economical angle bracket assemblies. With 1/2" transparent faceted jewel. Mount in 1/4" hole. Bracket held by threaded shank of lens holder. Bulb accessible from rear.

Bayonet Base		Screw Base	
Specify No. 12M1157 and Color.		Specify No. 12M1156 and Color.	
Red Dialco No. 502-1025-2131-102	Green Dialco No. 502-1025-2132-102	Red Dialco No. 502-1015-0622-102	Green Dialco No. 502-1015-0622-102
Amber Dialco No. 502-1025-2133-102	Choice 1-9.....51c	Amber Dialco No. 502-1015-0622-102	Choice 1-9.....42c
Choice 10-24.....48c	25-99.....45c	100-249.....39c	250-499.....36c
		500-999.....30c	

SUB-MINIATURE INDICATOR LIGHTS

For midget flange base lamps such as number 327 or 328. Black nickel finish. 1/2" transparent stovepipe (dome) lens. Mounts in 1/4" hole with nut behind panel. Lamp removable from front. Solder lug terminals. Extends 1/4" behind panel.



Specify Stock No. 12M977 and Color on Orders.			
Red Dialco No.	Green Dialco No.	Amber Dialco No.	White Dialco No.
101-5030-0931-201	101-5030-0932-201	101-5030-0933-201	101-5030-0935-201
Choice 1-9	10-24	25-99	100-249
Each.....\$1.45	\$1.27	\$1.14	\$1.03
			\$0.95
			\$0.87

As above except black anodized aluminum. 1/4" Stovepipe (dome) Lens, mounts in 1/4" hole with nut behind panel, extends 1/4" behind panel face. Meets MIL MS-25256.

Specify Stock No. 12M555 and Color on Orders.			
Color	Dialco No.	Color	Dialco No.
Red	162-8430-0931-502	Yellow	162-8430-0933-502
Green	162-8430-0932-502	Blue	162-8430-0934-502
Choice 1-9	10-24	25-99	100-249
Each.....\$1.39	\$1.22	\$1.11	\$1.00
			\$0.93
			\$0.86

NEON INDICATOR LIGHTS

With built-in resistor for 110-125 volts. 5/8" plastic stovepipe (dome) lens. Mounts in 1/4" hole. Length 2 1/2". Solder terminals. UL and CSA listed. Less Lamp.



For NE51 Neon Lamp—56K ohms resistor.		For NE51H Neon Lamp—22K ohms resistor.	
Specify Stk. No.	12M886 and Color Desired.	Specify Stk. No.	12M887 and Color Desired.
Red	Dialco No. 95-9108-0931-142	Red	Dialco No. 95-9163-0931-112
Amber	Dialco No. 95-9108-0933-142	Amber	Dialco No. 95-9163-0933-112
White	Dialco No. 95-9108-0935-142	White	Dialco No. 95-9163-0935-112
Clear	Dialco No. 95-9108-0937-142	Clear	Dialco No. 95-9163-0937-112
Choice 1-9	10-24	25-99	100-249
Each.....\$1.08	\$1.02	\$0.95	\$0.83
			\$0.78
			\$0.74

REPLACEMENT PLASTIC DOME LENS CAPS. For 12A835, 12A886 and 12A887 shown above.
Specify Stk. No. 12M973 and Color on Orders.
Red Dialco 95-0931 Amber Dialco 95-0933 White Dialco 95-0935 Clear Dialco 95-0937
Choice Each 1-9.....22c 10-24.....19c 25-99.....18c 100-249.....16c 250-499.....15c 500 Up 14c

LEECRAFT INDICATOR LIGHTS

LEECRAFT INDICATOR LIGHTS



The complete line of quality indicator lights using long life, non-replaceable lamps. All are friction or snap fit in the mounting hole sizes shown.

125 and 250 volts types are high brightness neon with resistors built-in. Ext. rated types are 1/3 watt high brightness neon without built-in resistor, maximum rated 250 volts with external resistor. Low voltage types are filament lamps. Design life is 10,000 hours for neon types, 4000 hours for 6 volt, 12,000 hours for 12 volt (usable to 14 volts) and 32,000 hours for 24 volt (usable to 28 volts). Actual life may be more or less depending on use and environment.

Suffix T indicates quick-connect tab terminals, others have wire leads

Color codes listed R-Red, G-Green, A-Amber, B-Blue, W-White and C-clear. Housings are white nylon except *types are black housing. Bezels are C-chrome, A-aluminum, N-none.

Type 51, figure 10 are SPST switch-indicator light combined. Lights when switch is "on".

All Type 31 series mounting hole 1.281 X .395".

B-A can supply any other Leecraft component on special order. Contact B-A Industrial Department, Phone (816) 561-5460 for quotation.

Fig.	Stock No.	Leecraft Number	Color	Mtg. Hole	Volts	Bezel	1-24	25-99	100-249	250-499	500-1000	1000 Up	
(1)	12A4143	31-2111	R	A	125	C	\$1.21	98.606	536	491	423		
(1)	12A4144	31-2113	A	R	125	C	1.21	98.606	536	491	423		
(1)	12A4145	31-2115	W	C	125	C	1.21	98.606	536	491	423		
(1)	12A4146	31-2117	C	See Size above	125	C	1.21	98.606	536	491	423		
(1)	12A4147	31-2111T	R	A	125	C	1.21	98.606	536	491	423		
(1)	12A4148	31-2113T	A	R	125	C	1.21	98.606	536	491	423		
(1)	12A4442	31-2115T	W	C	125	C	1.21	98.606	536	491	423		
(1)	12A4441	31-2117T	C	See Size above	125	C	1.21	98.606	536	491	423		
(1)	12A4151	31G1-2111	R	See Size above	6	C	1.53	1.33	.775	.745	.717	.667	
(1)	12A4152	31G1-2112	G	See Size above	6	C	1.53	1.33	.775	.745	.717	.667	
(1)	12A4153	31G1-2113	A	See Size above	6	C	1.53	1.33	.775	.745	.717	.667	
(1)	12A4154	31G1-2115	W	See Size above	6	C	1.53	1.33	.775	.745	.717	.667	
(1)	12A4155	31G3-2111	R	See Size above	12	C	1.53	1.31	.80	.782	.743	.691	
(1)	12A4156	31G3-2112	G	See Size above	12	C	1.53	1.31	.80	.782	.743	.691	
(1)	12A4157	31G3-2113	A	See Size above	12	C	1.53	1.31	.80	.782	.743	.691	
(1)	12A4158	31G3-2115	W	See Size above	12	C	1.53	1.31	.80	.782	.743	.691	
(1)	12A4159	31G3-2117	C	See Size above	12	C	1.53	1.31	.80	.782	.743	.691	
(1)	12A4160	31G5-2111	R	See Size above	24	C	1.53	1.27	.771	.753	.715	.665	
(1)	12A4161	31G5-2112	G	See Size above	24	C	1.53	1.27	.771	.753	.715	.665	
(1)	12A4162	31G5-2113	A	See Size above	24	C	1.53	1.27	.771	.753	.715	.665	
(1)	12A4163	31G5-2115	W	See Size above	24	C	1.53	1.27	.771	.753	.715	.665	
(1)	12A4164	31G5-2111T	R	See Size above	24	C	1.53	1.27	.771	.753	.715	.665	
(1)	12A4165	31G5-2113T	A	See Size above	24	C	1.53	1.27	.771	.753	.715	.665	
(1)	12A4166	31G5-2115T	W	See Size above	24	C	1.53	1.27	.771	.753	.715	.665	
(1)	12A4167	31H2-2111	A	C	250	C	1.21	98.606	536	491	423		
(1)	12A4150	31H2-2113T	A	C	250	C	1.21	98.606	536	491	423		
(2)	12A4167	32-2111	R	A	.5"	125	N	1.12	.92	.562	.51	.458	.39
(2)	12A4168	32-2113	A	R	.5"	125	N	1.12	.92	.562	.51	.458	.39
(2)	12A4169	32-2115	W	C	.5"	125	N	1.12	.92	.562	.51	.458	.39
(2)	12A4170	32-2117	C	See Size above	.5"	125	N	1.12	.92	.562	.51	.458	.39
(2)	12A4171	32-2111T	R	A	.5"	125	N	1.12	.92	.562	.51	.458	.39
(2)	12A4172	32-2113T	A	R	.5"	125	N	1.12	.92	.562	.51	.458	.39
(2)	12A4457	32-2115T	W	C	.5"	125	N	1.12	.92	.562	.51	.458	.39
(2)	12A4173	32-2117T	C	See Size above	.5"	125	N	1.12	.92	.562	.51	.458	.39
(3)	12A4174	32-2211	R	A	.5"	125	N	1.12	.92	.562	.51	.458	.39
(3)	12A4175	32-2213	A	R	.5"	125	N	1.12	.92	.562	.51	.458	.39
(3)	12A4176	32-2211T	R	A	.5"	125	N	1.12	.92	.562	.51	.458	.39
(4)	12A4177	32-2311	R	A	.5"	125	N	1.12	.92	.562	.51	.458	.39
(2)	12A4199	32G1-2111	R	A	.5"	6.3	N	1.53	1.20	.722	.706	.69	.642
(2)	12A4200	32G1-2113	A	R	.5"	6.3	N	1.53	1.20	.722	.706	.69	.642
(2)	12A4201	32G1-2115	W	C	.5"	6.3	N	1.53	1.20	.722	.706	.69	.642
(2)	12A4202	32G1-2111T	R	A	.5"	6.3	N	1.53	1.20	.722	.706	.69	.642
(2)	12A4213	32G3-2111	R	A	.5"	12	N	1.53	1.27	.748	.743	.716	.671
(2)	12A4214	32G3-2113	A	R	.5"	12	N	1.53	1.27	.748	.743	.716	.671
(2)	12A4215	32G3-2115	W	C	.5"	12	N	1.53	1.27	.748	.743	.716	.671
(2)	12A4216	32G3-2111T	R	A	.5"	12	N	1.53	1.27	.748	.743	.716	.671
(2)	12A4227	32G5-2111	R	A	.5"	24	N	1.53	1.20	.719	.713	.688	.64
(2)	12A4228	32G5-2113	A	R	.5"	24	N	1.53	1.20	.719	.713	.688	.64
(2)	12A4229	32G5-2115	W	C	.5"	24	N	1.53	1.20	.719	.713	.688	.64
(2)	12A4230	32G5-2111T	R	A	.5"	24	N	1.53	1.20	.719	.713	.688	.64
(3)	12A4231	32G5-2211	R	A	.5"	24	N	1.53	1.20	.719	.713	.688	.64
(2)	12A4178	32R-2111	R	A	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(2)	12A4179	32R-2113	A	R	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(2)	12A4180	32R-2115	W	C	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(2)	12A4181	32R-2117	C	See Size above	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(2)	12A4182	32R-2111T	R	A	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(2)	12A4448	32R-2113T	A	R	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(2)	12A4449	32R-2115T	W	C	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(2)	12A4450	32R-2117T	C	See Size above	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(2)	12A4451	32R-2211	R	A	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(2)	12A4452	32R-2213	A	R	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(3)	12A4453	32R-2215	W	C	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(3)	12A4454	32R-2217	C	See Size above	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(3)	12A4455	32R-2211T	R	A	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(3)	12A4183	32R-2213T	A	R	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(3)	12A4184	32R-2215T	W	C	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(3)	12A4185	32R-2217T	C	See Size above	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(4)	12A4186	32R-2311	R	A	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(4)	12A4187	32R-2313	A	R	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(4)	12A4188	32R-2315	W	C	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(4)	12A4189	32R-2317	C	See Size above	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(4)	12A4190	32R-2311T	R	A	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(4)	12A4191	32R-2313T	A	R	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(4)	12A4192	32R-2315T	W	C	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(4)	12A4193	32R-2317T	C	See Size above	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(5)	12A4194	32R-2511	R	A	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(6)	12A4195	32R-2911	R	A	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(6)	12A4196	32R-2913	A	R	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(6)	12A4197	32R-2915	W	C	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(6)	12A4198	32R-2917	C	See Size above	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(6)	12A4445	32R-2911T	R	A	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(6)	12A4446	32R-2913T	A	R	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(6)	12A4447	32R-2915T	W	C	.5"	125	C	1.21	1.00	.606	.549	.504	.414
(2)	12A4403	32RG1-2111	R	A	.5"	6.3	C	1.59	1.27	.767	.739	.714	.664
(2)	12A4204	32RG1-2113	A	R	.5"	6.3	C	1.59	1.27	.767	.739	.714	.664

Fig.	Stock No.	Leecraft Number	Color	Mtg. Hole	Volts	Bezel	1-24	25-99	100-249	250-499	500-1000	1000 Up
(2)	12A4205	32RG1-2115	W	.5"	6.3	C	\$1.59	1.27	.767	.739	.714	.664
(3)	12A4207	32RG1-2211	R	.5"	6.3	C	1.59	1.27	.767	.739	.714	.664
(4)	12A4209	32RG1-2311	R	.5"	6.3	C	1.59	1.27	.767	.739	.714	.664
(5)	12A4211	32RG1-2511	R	.5"	6.3	C	1.59	1.27	.767	.739	.714	.664
(5)	12A4212	32RG1-2513	A	.5"	6.3	C	1.59	1.27	.767	.739	.714	.664
(2)	12A4206	32RG1-2111T	R	.5"	6.3	C	1.59	1.27	.767	.739	.714	.664
(3)	12A4208	32RG1-2211T	R	.5"	6.3	C	1.59	1.27	.767	.739	.714	.664
(4)	12A4210	32RG1-2311T	R	.5"	6.3	C	1.59	1.27	.767	.739	.714	.664
(2)	12A4217	32RG3-2111	R	.5"	12	C	1.53	1.31	.794	.776	.742	.702
(2)	12A4218	32RG3-2113	A	.5"	12	C	1.53	1.31	.794	.776	.742	.702
(2)	12A4219	32RG3-2115	W	.5"	12	C	1.53	1.31	.794	.776	.742	.702
(3)	12A4221	32RG3-2211	R	.5"	12	C	1.53	1.31	.794	.776	.742	.702
(4)	12A4222	32RG3-2311	R	.5"	12	C	1.53	1.31	.794	.776	.742	.702
(4)	12A4223	32RG3-2313	A	.5"	12	C	1.53	1.31	.794	.776	.742	.702
(6)	12A4225	32RG3-2911	R	.5"	12	C	1.53	1.31	.794	.776	.742</	

LEECRAFT INDICATOR LIGHTS AND SOCKETS

LEECRAFT INDICATOR LIGHTS (Continued)

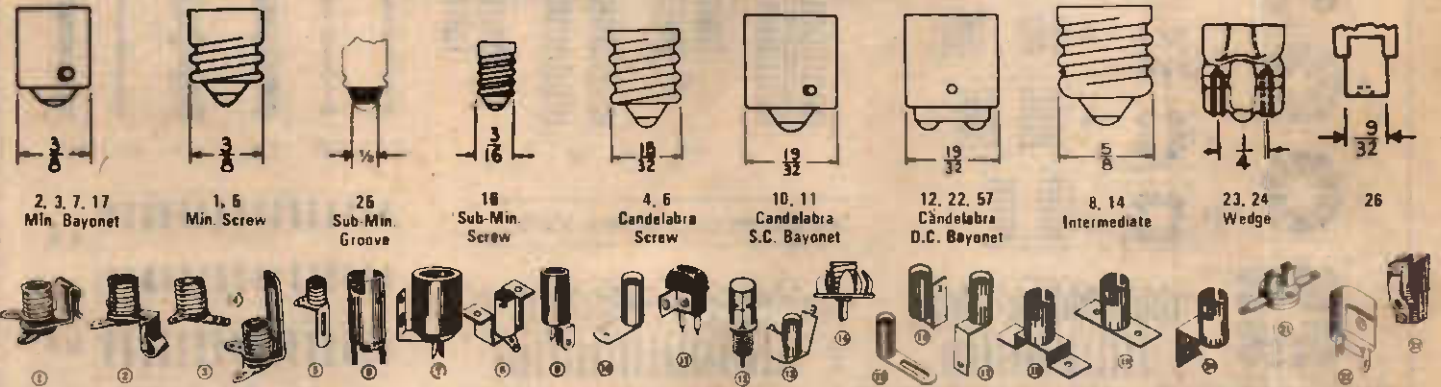
Fig.	Stock No.	Leecraft No.	Color	Mtg. Hole	Volts	1-24	25-99	100-249	250-499	500-999	1000 Up
8	12A4276	41N1311	R	3/16"	Ext N	\$1.03	\$0.83	\$0.563	\$0.478	\$0.399	\$0.338
8	12A4276	41N2311	R	3/16"	Ext N	1.03	.83	.563	.478	.399	.338
8	12A4277	41N2313	A	3/16"	Ext N	1.03	.83	.563	.478	.399	.338
8	12A4278	41N2315	W	3/16"	Ext N	1.03	.83	.563	.478	.399	.338
8	12A4279	41N2317	C	3/16"	Ext N	1.03	.83	.563	.478	.399	.338
8	12A4284	41NG1-2311	R	3/16"	Ext N	6.3	1.52	1.09	.709	.693	.629
8	12A4285	41NG1-2312	G	3/16"	Ext N	6.3	1.52	1.09	.709	.693	.629
8	12A4286	41NG1-2313	A	3/16"	Ext N	6.3	1.52	1.09	.709	.693	.629
8	12A4287	41NG1-2314	B	3/16"	Ext N	6.3	1.52	1.09	.709	.693	.629
8	12A4288	41NG1-2315	W	3/16"	Ext N	6.3	1.52	1.09	.709	.693	.629
8	12A4291	41NG3-2311	R	3/16"	Ext N	12	1.47	1.13	.746	.741	.655
8	12A4292	41NG3-2312	G	3/16"	Ext N	12	1.47	1.13	.746	.741	.655
8	12A4293	41NG3-2313	A	3/16"	Ext N	12	1.47	1.13	.746	.741	.655
8	12A4298	41NG5-2311	R	3/16"	Ext N	28	1.42	1.09	.711	.70	.628
8	12A4299	41NG5-2312	G	3/16"	Ext N	28	1.42	1.09	.711	.70	.628
8	12A4300	41NG5-2315	W	3/16"	Ext N	28	1.42	1.09	.711	.70	.628

Fig.	Stock No.	Leecraft No.	Color	Mtg. Hole	Volts	1-24	25-99	100-249	250-499	500-999	1000 Up
8	12A4304	45N2311	R	1/4"	125 N	\$1.16	\$0.93	\$0.625	\$0.556	\$0.504	\$0.439
8	12A4305	45N2313	A	1/4"	125 N	1.16	.93	.625	.556	.504	.439
9	12A4309	47-2	W	See R Below	125 N	1.33	1.07	.662	.634	.513	.474
9	12A4310	47-3	R	See R Below	125 N	1.33	1.07	.662	.634	.513	.474
10	12A4311	51-2131	R	A See R Below	125 C	1.69	1.19	1.016	.847	.762	.741
10	12A4312	51-2133	A	See R Below	125 C	1.69	1.19	1.016	.847	.762	.741
10	12A4313	51-2135	W	See R Below	125 C	1.69	1.19	1.016	.847	.762	.741
10	12A4314	51-2131T	R	See R Below	125 C	1.69	1.19	1.016	.847	.762	.741
10	12A4315	51G1-2131T	R	A See R Below	6 C	1.81	1.30	1.185	1.095	.971	.944
10	12A4316	51G1-2133T	A	See R Below	6 C	1.81	1.30	1.185	1.095	.971	.944
10	12A4317	51G1-2131T	R	A See R Below	12 C	1.81	1.30	1.151	1.061	.937	.911
10	12A4318	51G3-2133T	A	See R Below	12 C	1.81	1.30	1.151	1.061	.937	.911
10	12A4319	51G5-2131T	R	A See R Below	24 C	1.81	1.30	1.112	1.039	.868	.834

Mounting Hole: Type 47 Series - 1/4" X 1/4"; Type 51 and 51G Series - 1.281 X .395"

LEECRAFT LAMP SOCKETS

SERIES DESIGNS AND DIMENSIONS KEYED TO PREFIX NUMBERS OF SERIES AS LISTED

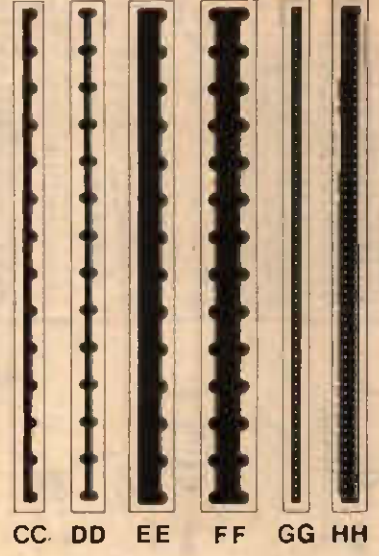
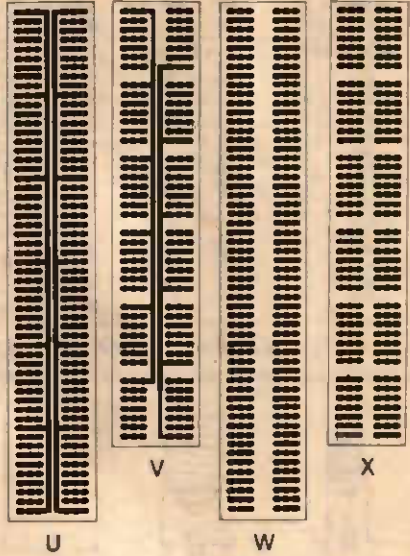
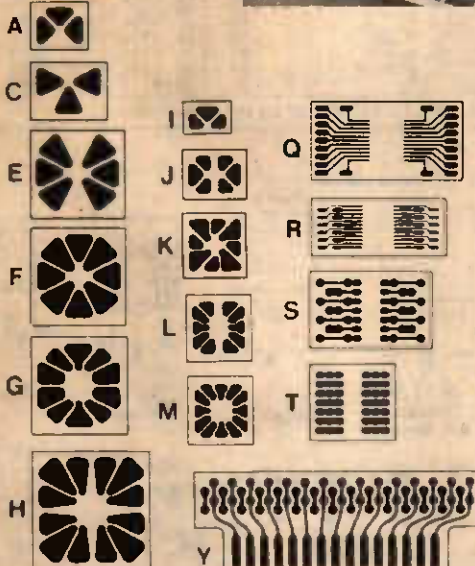
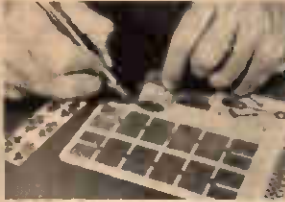


Sockets listed INS are insulated by fiber tube or molded plastic insulation over outside of socket shell. NON insulated have bare socket shells. Brackets are insulated from electrical circuit except in types which have the shell connected electrically to the bracket. Bracket configuration only should be considered in these figures since they are part of the socket series as listed.

Fig.	Stock No.	Series No.	Insu- lated	Lug or Wire	1-24	25-99	100-249	250-499	500-999	1000 Up
9	12A4320	1-08	Ins.	W	\$0.72	\$0.47	\$39.69	\$27.29	\$22.44	\$21.29
10	12A4321	1-12	Ins.	W	.72	.47	39.69	27.29	22.44	21.29
12	12A4322	1-30N	Ins.	W	.92	.72	56.23	34.67	28.38	26.39
1	12A4323	2-01	Ins.	W	.68	.40	33.08	19.96	15.52	14.68
2	12A4324	2-02	Ins.	W	.68	.40	33.08	19.96	15.52	14.68
4	12A4325	2-05	Ins.	W	.68	.40	33.08	19.96	15.52	14.68
5	12A4326	2-08	Ins.	W	.68	.40	33.08	19.96	15.52	14.68
3	12A4327	2-07	Ins.	W	.68	.40	33.08	19.96	15.52	14.68
9	12B703	2-08	Ins.	W	.68	.40	33.08	19.96	15.52	14.68
10	12A4328	2-12	Ins.	W	.68	.40	33.08	19.96	15.52	14.68
13	12A4333	2-15-1	Non*	W	.68	.41	33.08	14.86	12.37	11.47
12	12A4329	2-30N	Non*	W	.86	.63	48.51	27.29	21.41	19.77
14	12A4330	2-40	Non*	W	.68	.40	33.08	19.96	15.52	14.68
2	12A4335	3-02	Ins.	W	.72	.49	39.69	28.74	24.38	23.11
4	12A4336	3-05	Ins.	W	.72	.49	39.69	28.74	24.38	23.11
9	12B704	3-08	Ins.	W	.72	.49	39.69	28.74	24.38	23.11
12	12A4337	3-30N	Ins.	W	.92	.70	56.23	36.09	30.26	28.14
14	12A4338	3-40	Ins.	W	.72	.49	39.69	28.74	24.38	23.11
13	12A4339	3-82	Ins.	W	.72	.49	39.69	28.74	24.38	23.11
2	12A4340	4-02	Ins.	W	.72	.49	39.69	26.20	25.79	23.58
4	12A4341	4-05	Ins.	W	.72	.49	39.69	26.20	25.79	23.58
5	12A4342	4-06	Ins.	W	.72	.49	39.69	26.20	25.79	23.58
3	12A4343	4-07	Ins.	W	.72	.49	39.69	26.20	25.79	23.58
9	12B708	4-08	Ins.	W	.72	.49	39.69	26.20	25.79	23.58
10	12A4344	4-12	Ins.	W	.72	.48	39.69	26.20	25.79	23.58
12	12A4345	4-30N	Ins.	W	.92	.70	56.23	33.42	30.62	28.64
14	12A4346	4-40	Ins.	W	.72	.49	39.69	26.20	25.79	23.58
1	12A4347	4-45	Ins.	W	.72	.49	39.69	26.20	25.79	23.58
2	12A4348	4-46	Ins.	W	.72	.49	39.69	26.20	25.79	23.58
1	12A1142	5-01	Non	L	.58	.39	28.35	13.65	12.08	9.87
2	12A4349	5-02	Non	L	.58	.39	28.36	13.65	12.08	9.87
4	12A1144	5-05	Non	L	.58	.39	28.36	13.65	12.08	9.87
5	12A1145	5-06	Non	L	.58	.39	28.35	13.65	12.08	9.87
3	12A1146	5-07	Non	L	.58	.39	28.35	13.65	12.08	9.87
9	12A4350	5-08	Non	L	.58	.39	28.35	13.65	12.08	9.87
10	12A4351	5-12	Non	L	.58	.39	28.35	13.65	12.08	9.87
1	12A4352	6-01	Non	L	.61	.42	29.93	15.03	13.46	12.47
2	12A4353	6-02	Non	L	.61	.42	29.93	15.03	13.46	12.47
4	12A1154	6-05	Non	L	.61	.42	29.93	15.03	13.46	12.47
5	12A1155	6-06	Non	L	.61	.42	29.93	15.03	13.46	12.47
3	12A833	6-07	Non	L	.61	.42	29.93	15.03	13.46	12.47
9	12A4354	6-08	Non	L	.61	.42	29.93	15.03	13.46	12.47
10	12A4355	6-12	Non	L	.61	.42	29.93	15.03	13.46	12.47
1	12A1162	7-01	Non	L	.61	.36	26.46	12.56	11.10	9.26
2	12A1163	7-02	Non	L	.61	.36	26.46	12.56	11.10	9.26
4	12A1150	7-05	Non	L	.61	.36	26.46	12.56	11.10	9.26
5	12A1151	7-06	Non	L	.61	.36	26.46	12.56	11.10	9.26
8	12A4360	7-08	Non	L	.61	.36	26.46	12.56	11.10	9.26
10	12A4361	7-11	Non	L	.61	.36	26.46	12.56	11.10	9.26
10	12A4362	7-12	Non	L	.61	.36	26.46	12.56	11.10	9.26
15	12A4363	7-13	Non	L	.61	.36	26.46	12.56	11.10	9.26
13	12A4364	7-15	Non	L	.61	.36	26.46	12.56	11.10	9.26
16	12A4365	7-19	Non	L	.61	.36	26.46	12.56	11.10	9.26

Fig.	Stock No.	Series No.	Insu- lated	Lug or Wire	1-24	25-99	100-249	250-499	500-999	1000 Up
17	12A4366	7-20	Non*	L	\$0.61	\$0.36	\$26.46	\$12.66	\$11.10	\$9.26
16	12A4367	7-35**	Non*	L	.75	.55	42.00	31.98	21.74	12.18
13	12A4370	7-82	Non	L	.61	.36	26.46	12.66	11.10	9.26
18	12A4382	8-81	Non	L	.84	.53	44.10	31.98	22.05	21.00
3	12A4384	10-07	Non	L	.68	.41	33.08	19.96	16.56	16.35
9	12A4383	10-08	Non	L	.68	.41	33.08	19.96	16.56	16.35
3	12A4385	11-207	Non*	W	.68	.49	39.69	24.38	21.66	20.01
9	12A4386	11-208	Non*	W	.68	.49	39.69	24.38	21.66	20.01
12	12A4387	11-230-BN	Non*	W	.92	.70	56.23	31.72	27.59	25.05
7	12A4388	11-271	Non*	W	.68	.49	39.69	24.38	21.66	20.01
20	12A4389	11-272	Non*	W	.68	.49	39.69	24.38	21.66	20.01
3	12A4390	12-207	Non	W	.84	.57	52.80	32.56	27.30	26.25
9	12A4391	12-208	Non	W	.84	.57	52.80	32.56	27.30	26.25
10	12A4392	12-212	Non	W	.84	.57	52.80	32.56	27.30	26.25
13	12A4393	12-215	Non	W	.84	.57	52.80	32.56	27.30	26.25
19	12A4394	12-225	Non	W	.84	.57	52.80	32.56	27.30	26.25
12	12A4395	12-230-BN	Non*	W	.98	.78	61.74	37.80	31.97	29.98
7	12B705	12-271	Non	W	.84	.57	52.80	32.56	27.30	26.25
20	12A4398	12-272	Non	W	.84	.57	52.80	32.56	27.30	26.25
3	12A4399	14-07	Ins.	W	.80	.58	48.51	32.60	25.22	24.08
12	12A4400	14-30N	Ins.	W	.98	.78	61.74	37.80	31.96	28.96
7	12B700	14-71	Ins.	W	.80	.58	48.51	32.50	25.22	24.08
20	12A4401	14-72	Ins.	W	.80	.58	48.51	32.50	25.22	24.08
3	12A4402	16-07	Non	L	.72	.49	39.69	24.38	21.41	18.80
8	12A4403	16-08	Non	L	.72	.49	39.69	24.38	21.41	18.80
10	12A4404	16-12	Non	L	.72	.49	39.69	24.38	21.41	18.80
6	12A4405	16-35**	Non	L	.97	.74	71.40	63.53	54.63	47.01
9	12A4407	16-208	Non	L	.80	.58	48.51	31.95	26.92	

A PROVEN TECHNIQUE TO PRODUCE HIGH RELIABILITY CIRCUIT BOARDS DIRECTLY FROM SKETCHES OR LOGIC DIAGRAMS.



Sub-Elements are approx. 1/2 size.



This aerospace proven concept in circuit packaging permits rapid assembly of all prototypes and limited quantity production systems directly from engineering schematics and logic flow diagrams.

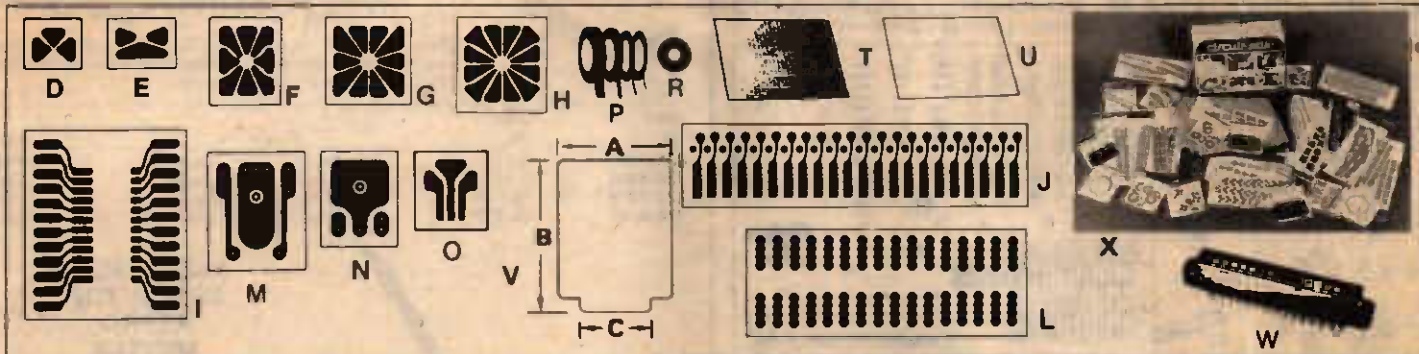
All sub-element conductors are preplated and ready for soldering. Etched

copper sub-elements are supplied on thin substrates which have a high strength pressure sensitive adhesive backing. They are designed to withstand soldering temperatures, and offer exceptionally good adhesion strength, yet can be removed when changes require a Circuit-Stik "instant" modification.

THE "1000" SERIES (MFR'S. TYPE) CIRCUIT-STIK SUB-ELEMENTS ARE PRE-DRILLED ON .100-INCH GRID TO MATCH PRE-PUNCHED BOARD MATERIAL - REQUIRES NO DRILLING AND NO TERMINALS

Stock No.	Mfr's Type	Fig.	Pcs. Per Pkg.	Sub-Element Description	Price
TO-5 & TO-18 Sub-Elements					
12A9713	1001-010	A	10	TO-18 or TO-5 3 Lead	\$ 2.50
12A9714	1001-030	A	30	TO-18 or TO-5 3 Lead on 5 strips	6.75
12A9717	1021-010	C	10	TO-5 3 Lead	2.50
12A9718	1021-030	C	30	TO-5 3 Lead on 5 strips	6.75
12A9721	1023-010	E	10	TO-5 6 Lead	3.00
12A9722	1023-030	E	30	TO-5 6 Lead on 5 strips	8.10
12A9723	1024-010	F	10	TO-5 8 Lead	3.00
12A9724	1024-030	F	30	TO-5 8 Lead on 5 strips	8.10
12A9725	1025-010	G	10	TO-5 10 Lead	3.00
12A9726	1025-030	G	30	TO-5 10 Lead on 5 strips	8.10
12A9727	1026-010	H	10	TO-5 12 Lead	3.50
12A9728	1026-030	H	30	TO-5 12 Lead on 5 strips	9.45
Compact TO-5 Sub-Elements					
12A9933	1031-010	I	10	Compact, TO-5 or TO-18 3 Lead	\$ 2.50
12A9934	1031-030	I	30	Compact, TO-5 3 Lead on 5 strips	6.75
12A9933	1033-010	J	10	Compact, TO-5, 6 Lead	3.00
12A9936	1033-030	J	30	Compact, TO-5 6 Lead on 5 strips	8.10
12A9937	1034-010	K	10	Compact, TO-5 8 Lead	3.00
12A9938	1034-030	K	30	Compact, TO-5 8 Lead on 5 strips	8.10
12A9939	1035-010	L	10	Compact, TO-5 10 Lead	3.00
12A9940	1035-030	L	30	Compact, TO-5 10 Lead on 5 strips	8.10
12A9941	1036-010	M	10	Compact, TO-5 12 Lead	3.50
12A9942	1036-030	M	30	Compact TO-5 12 Lead on 5 strips	9.45
Flat Pack Sub-Elements, Spread Lead Configuration					
12A9729	1061-010	Q	10	Flat Pack, 10 Lead	\$ 3.00
12A9731	1062-010	Q	10	Flat Pack, 14 Lead	3.00
12A9943	1066-010	Q	10	Flat Pack, 22 Lead	6.00
12A9944	1067-010	Q	10	Flat Pack, 24 Lead	6.00
12A9945	1069-005	Q	5	Flat Pack, 28 Lead	4.25
12A9946	1073-005	Q	5	Flat Pack, 36 Lead	5.00
12A9947	1075-005	Q	5	Flat Pack, 40 Lead	6.50
12A9948	1076-005	Q	5	Flat Pack, 42 Lead	6.50
Compact Flat Pack Sub-Elements					
12A9949	1081-010	R	10	Compact, Flat Pack, 10 Lead	\$ 3.00
12A9950	1082-010	R	10	Compact, Flat Pack, 14 Lead	3.00
12A9951	1086-010	R	10	Compact, Flat Pack, 22 Lead	5.00

Stock No.	Mfr's Type	Fig.	Pcs. Per Pkg.	Sub-Element Description	Price
12A9952	1087-010	R	10	Compact, Flat Pack, 24 Lead	\$ 8.00
12A9953	1089-005	R	5	Compact, Flat Pack, 28 Lead	3.00
12A9954	1093-005	R	5	Compact, Flat Pack, 36 Lead	4.00
12A9955	1095-005	R	5	Compact, Flat Pack, 40 Lead	5.00
12A9956	1096-005	R	5	Compact, Flat Pack, 42 Lead	5.00
Dual-In-Line Package Sub-Elements					
12A9733	1101-010	S	10	Dual-In-Line 14 Lead	\$ 3.00
12A9734	1101-030	S	30	Dual-In-Line 14 Lead on 5 strips	8.10
12A9735	1102-010	T	10	Dual-In-Line 14 Lead	3.00
12A9737	1202-005	U	5	6 DIP's/Strip, 14/16 Lead, pwr. and gnd. avail.	7.75
12A9739	1204-005	V	5	6 DIP's/Strip, 14 Lead, pwr. and gnd. pins 7/14	6.25
12A9741	1206-005	W	5	Universal, 30 DIP's on 5 strips	7.75
12A9743	1208-005	X	5	6 OIP's/Strip, 14 Lead	6.50
Plug-In Connector Strips "Hard Gold over Nickel Plate"					
12A9751	1351-005	Y	5	15 Pin, .100" Spacing, Component Side	\$ 8.25
12A9752	1352-005	Y	5	15 Pin, .100" Spacing, Circuit Side	8.25
12A9753	1353-005	Y	5	15 Pin, .125" Spacing, Component Side	6.25
12A9754	1354-005	Y	5	15 Pin, .125" Spacing, Circuit Side	6.25
12A9755	1355-005	Y	5	15 Pin, .156" Spacing, Component Side	8.25
12A9756	1356-005	Y	5	15 Pin, .156" Spacing, Circuit Side	6.25
12A9757	1361-005	Z	5	22 Pin, .100" Spacing, Component Side	7.50
12A9758	1362-005	Z	5	22 Pin, .100" Spacing, Circuit Side	7.50
12A9759	1363-005	Z	5	22 Pin, .125" Spacing, Component Side	7.50
12A9760	1364-005	Z	5	22 Pin, .125" Spacing, Circuit Side	7.50
12A9761	1365-005	Z	5	22 Pin, .156" Spacing, Component Side	7.50
12A9762	1366-005	Z	5	22 Pin, .156" Spacing, Circuit Side	7.50
Discrete Component Strips					
12A9745	1302-005	AA	5	16 Discrete, Component Strip, mounts 80	\$ 5.50
12A9746	1311-010	BB	10	Universal Strip, mounts 80 discretes	8.00
Distribution Strips					
12A9747	1321-010	CC	10	.100" wide	\$ 3.50
12A9748	1322-010	DD	10	.063" wide	4.10
12A9749	1323-010	EE	10	.250" wide	4.50
12A9750	1324-010	FF	10	.250" wide	4.80
12A9957	1325-010	GG	10	Single Row .100" hole spacing	4.00
12A9958	1326-010	HH	10	Double Row .100" hole spacing	4.50



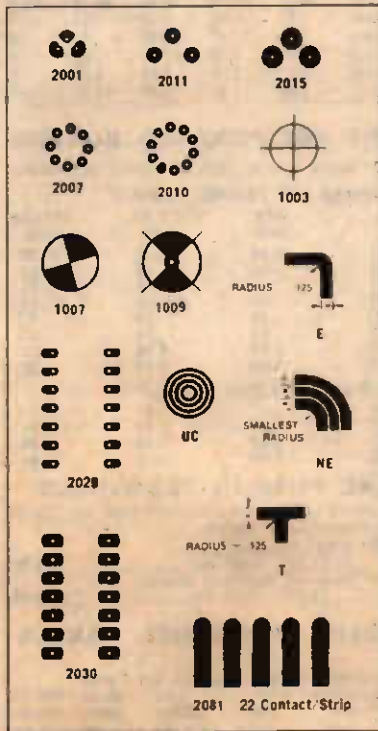
THE "2000" SERIES (MFR'S TYPE) CIRCUIT-STIK SUB-ELEMENTS ARE FOR COMPACTNESS — AND ARE NOT DRILLED.

Stock No	Mfr's Type	Fig	Per Pkg	Sub-Element Description	Price
12A9764	2001-010	D	10	TO-18 3 Lead	\$ 2.00
12A9765	2001-030	D	30	TO-18 3 Lead	5.40
12A9768	2021-010	E	10	TO-5 3 Lead	2.00
12A9769	2021-030	E	30	TO-5 3 Lead	5.40
12A9774	2024-010	F	10	TO-5 8 Lead	2.50
12A9775	2024-030	F	30	TO-5 8 Lead	6.75
12A9776	2025-010	G	10	TO-5 10 Lead	2.50
12A9777	2025-030	G	30	TO-5 10 Lead	6.75
12A9778	2026-010	H	10	TO-5 12 Lead	3.00
12A9779	2026-030	H	30	TO-5 12 Lead	8.10
12A9781	2102-010	I	10	MSI DIP 24 Lead	6.00
12A9780	2101-010	I	10	DIP 14 Lead	3.00
12A9783	2367-005	J	5	22 Pin Connector Strip, Gold Plated, .156 Spacing, Component Side	6.25
12A9784	2368-005	J	5	22 Pin Connector Strip, Gold Plated, .156 Spacing, Circuit Side	6.25
12A9782	2301-005	L	5	Mounts 105 components	5.50
12A9785	1404-010	M	10	TO-3 Subelement (Flange Mtg.)	5.00
12A9784	1405-010	N	10	SCR Stude Mtg.	3.00
12A9787	1408-010	O	10	SCR Flat Pkg. Mtg.	3.00

Stock No	Mfr's Type	Fig	Per Pkg	Sub-Element Description	Price
Copper Tape, Pressure Sensitive Adhesive					
12A9959	7105	P	1	.031" wide x 9 ft. long	\$.75
12A9960	7106	P	1	.040" wide x 9 ft. long	.75
12A9961	7107	P	1	.050" wide x 9 ft. long	.75
12A9788	7101	P	1	.062" wide x 9 ft. long	.75
12A9789	7102	P	1	.100" wide x 9 ft. long	.90
12A9790	7103	P	1	.187" wide x 9 ft. long	1.00
12A9791	7104	P	1	.250" wide x 9 ft. long	2.00
Mylar Tape (Insulative), Pressure Sensitive Adhesive					
12A9792	7151	P	1	100" wide x 30 ft. long	\$ 1.00
12A9793	7152	P	1	150" wide x 30 ft. long	1.25
12A9794	7153	P	1	200" wide x 30 ft. long	1.50
12A9795	7154	P	1	300" wide x 30 ft. long	2.00
Materials (Pressure Sensitive Adhesive)					
12A9796	7201	R	250	100" dia. pads	\$ 2.50
12A9797	7202	R	250	125" dia. pads	2.50
12A9798	7203	R	250	187" dia. pads	3.00
12A9799	7204	R	250	250" dia. pads	3.50
12A9800	7251	U	5	Copper Sheet, 5" x 6"	5.75
12A9962	7261	U	5	Epoxy-Glass Insulative Sheet, 5" x 6"	5.75

Stock No	Mfr's Type	Fig	Per Pkg	Sub-Element Description	Price
Epoxy-Glass Board Materials (No Adhesive)					
12A9801	7301	T	1	Pre-punched 8 1/4" x 17" .100 Spacing	\$ 8.00
12A9802	7351	U	1	Plain 6" x 12"	1.95
12A9803	7352	U	1	Plain 12" x 18"	5.35
Pre-Shaped Boards					
12A9805	7402	V	1	Pre-Punched "A"-4.5", "B"-6.5", "C"-22 pins	\$ 5.25
12A9963	7405	V	1	Pre-punched "A"-4.0"	4.25
12A9807	7452	V	1	Plain "A"-4.5", "B"-6.5", "C"-22 pins	2.95
12A9964	7455	V	1	Plain/"A"-4.0", "B"-4.5", "C"-15 pins	2.35
Connectors, .156 Pin Spacing					
12A9808	7501	W	1	15 Pins	\$ 2.35
12A9809	7502	W	1	30 Pins	2.75
12A9810	7503	W	1	22 Pins	3.00
12A9811	7504	W	1	44 Pins	3.50
12A9812	8951	X	1	Prototype Kit (\$110 value)	99.50

PRINTED CIRCUIT ARTWORK SYMBOLS FROM CENTRON ENGINEERING, INC.



ALL 2000 SERIES PART NO.'S ARE SUPPLIED IN 2X SCALE. (ILLUSTRATIONS ARE NOT TO SCALE.)

PRINTED SYMBOLS

Stock No.	Mfr's Type	Description	Symb. Per Pkg.	Price
12A9819	2001	TO-18 2x 3 Lead	250	\$ 6.50
12A9826	2011	TO-5 2x 3 Lead	250	6.50
12A9822	2007	TO-5 2x 8 Lead	250	8.50
12A9825	2010	TO-5 2x 10 Lead	250	6.50
12A9828	2020	14 Lead DIP 2x	250	7.50
12A9830	2026	16 Lead DIP 2x	250	7.50
12A9831	2029	14 Lead DIP 2x	250	7.50
12A9833	2034	16 Lead DIP 2x	250	7.50
12A9832	2030	14 Lead DIP 2x	250	7.50
12A9834	2035	16 Lead DIP 2x	250	7.50
12A9835	2080	Connector strip .125 spacing 2x	30	5.00
12A9836	2081	Connector Strips .156 Spacing, 2x	30	5.00
12A9814	1003	Reg. Target	250	6.50
12A9816	1007	Reg. Target	250	6.50
12A9817	1009	Reg. Target	250	6.50

90° ELBOWS (PACKAGED 250/ ROLL)

Stock No.	Mfr's Type	Line Width	Price/Roll
12A9849	E912	.052"	\$2.00
12A9850	E914	.080"	2.00
12A9851	E916	.093"	2.00
12A9852	E920	.100"	2.00
12A9856	E928	.187"	2.50

90° NESTED ELBOWS (PACKAGED 250/ ROLL)

Stock No.	Mfr's Type	Line Width	Smallest Radius	No. Rings in Nest	Price/Roll
12A9842	NE882	.062"	.062"	4	\$3.00
12A9843	NE864	.080"	.062"	4	2.50
12A9844	NE866	.093"	.062"	4	2.50
12A9845	NE870	.100"	.062"	3	2.50
12A9848	NE878	.187"	.062"	3	4.00

TEES (PACKAGED 250/ ROLL)

Stock No.	Mfr's Type	Line Width	Price/Roll
12A9857	T862	.062"	\$2.00
12A9858	T964	.080"	2.00
12A9859	T966	.093"	2.00
12A9860	T970	.100"	2.00
12A9863	T978	.187"	2.50

DONUT PADS (BLACK)

Stock No.	Mfr's Type	O.O.	I.O.	Per. Pkg.	Price/Roll
12A9899	P7100	.100"	.031"	500	\$ 2.50
12A9901	P7140	.125"	.031"	500	2.00
12A9903	P7190	.156"	.031"	500	2.00
12A9904	P7220	.156"	.062"	500	2.00
12A9905	P7250	.187"	.031"	500	2.00
12A9906	P7260	.187"	.040"	500	2.00
12A9907	P7280	.187"	.062"	500	2.00
12A9908	P7290	.200"	.031"	500	2.00
12A9909	P7300	.200"	.040"	500	2.00
12A9910	P7320	.200"	.062"	500	2.00
12A9911	P7340	.218"	.031"	500	2.00
12A9912	P7360	.218"	.062"	500	2.00
12A9913	P7390	.250"	.031"	500	2.00
12A9914	P7400	.250"	.040"	500	2.00
12A9915	P7420	.250"	.062"	500	2.00
12A9917	P7460	.300"	.062"	500	2.50
12A9919	P7500	.312"	.062"	500	2.50
12A9921	P7540	.375"	.062"	500	2.50
12A9923	P7600	.400"	.062"	500	3.25
12A9926	P7720	.500"	.062"	500	3.75

UNIVERSAL CORNERS (PACKAGED 250/ ROLL)

Stock No.	Mfr's Type	Line Width	OO of Nest	ID of Nest	No. Rings in Nest	Price/Roll
12A9837	UC812	.062"	.625"	.125"	4	\$3.00
12A9838	UC814	.080"	.890"	.250"	4	\$5.00
12A9839	UC816	.093"	1.062"	.312"	4	\$5.00
12A9840	UC820	.100"	1.100"	.300"	4	\$5.00
12A9841	UC828	.187"	2.000"	.500"	4	\$8.00

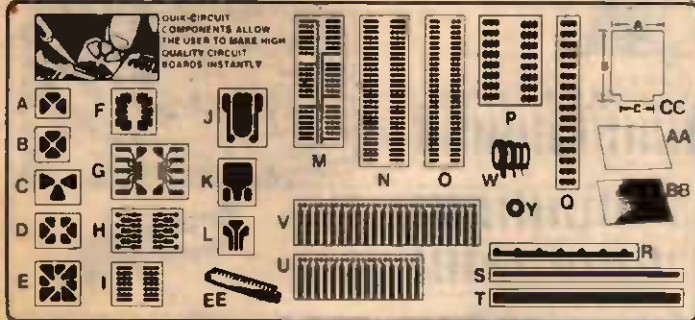
CIRCUIT ARTWORK TAPE (BLACK) 20 YARD ROLLS

Stock No.	Mfr's Type Blk. Crsps	Stock No.	Mfr's Type Blk. Matte	Size	Rolls	Price (ea.)
12A9864	CT 100-031	12A9882	MT 200-031	.031"	1	\$.75
12A9865	CT 100-040	12A9883	MT 200-040	.040"	1	.78
12A9866	CT 100-050	12A9884	MT 200-050	.050"	1	.75
12A9867	CT 100-062	12A9885	MT 200-062	.062"	1	.75
12A9868	CT 100-080	12A9886	MT 200-080	.080"	1	.75
12A9869	CT 100-093	12A9887	MT 200-093	.093"	1	.75
12A9870	CT 100-100	12A9888	MT 200-100	.100"	1	.75
12A9871	CT 100-125	12A9889	MT 200-125	.125"	1	.75
12A9873	CT 100-156	12A9890	MT 200-156	.156"	1	.78
12A9874	CT 100-187	12A9891	MT 200-187	.187"	1	.75
12A9875	CT 100-200	12A9892	MT 200-200	.200"	1	.75
12A9877	CT 100-250	12A9894	MT 200-250	.250"	1	.75

PRINTED CIRCUIT COMPONENTS

quik-circuits
Product by CIRCUIT-STIK INC.

FOR HOBBYISTS & EXPERIMENTERS
ADHESIVE BACKED COPPER PATTERNS



Permits rapid P.C. board assembly directly from schematics or logic flow diagrams. Now the electronics hobbyist, experimenter or technician can build professional quality P.C. boards without special tools or experience, quickly and economically. Sub-elements are pre-drilled and ready for soldering. Etched copper sub-elements are on thin substrates with pressure sensitive adhesive backing. Withstand soldering heat, offer exceptional adhesive strength, yet can be removed for circuit changes. Quik-circuit sub-elements are pre-drilled on .100" grid to match pre-punched boards, require no drilling and no terminals.

Stock No.	Mfg Type	Fig.	Pcs. Per Pkg	Description	Per Pkg.
12A10038	3001-003	A	3	T0-18 or T0-5, 3 lead	\$0.95
12A10039	3002-003	B	3	T0-18 or T0-5, 4 lead	.95
12A10040	3021-003	C	3	T0-5, 3 lead	.95
12A10041	3033-003	O	3	T0-5, 8 lead	1.09
12A10042	3034-003	E	3	T0-5, 8 lead	1.19
12A10043	3035-003	F	3	T0-5, 10 lead	1.19
12A10044	3062-003	G	3	Flat Pack, 14 lead	1.49
12A10045	3101-003	H	3	Dual-In-Line, 14 lead	1.29
12A10046	3102-005	I	5	Dual-In-Line, 14 lead	1.95
12A10047	3404-002	J	2	T0-3 Pkg. Flange Mfg.	.95
12A10048	3405-004	K	4	Rectifier, SCR, Triac	1.59
12A10049	3408-005	L	5	SCR & Transistor Flat Plastic	1.49
12A10050	3214-002	M	2	Dual-In-Line Strip, 14 lead	1.69
12A10051	3216-002	N	2	Universal DIP Strip, 14 or 16 L	1.89
12A10052	3227-002	O	2	Universal DIP Strip, 14 or 16 L	1.69
12A10053	3302-002	P	2	Discrete Component Strip	1.29
12A10054	3312-002	Q	2	Universal Strip	1.19
12A10055	3321-008	R	6	Distribution Strips, 7 pads	1.49
12A10056	3325-006	S	6	Distribution Strips, Single Row	1.69
12A10057	3328-004	T	4	Double Row, 100 sp. holes	1.89
12A10058	3378-002	U	2	15 Pin Edge Connector	2.19
12A10059	3396-002	V	2	22 Pin Edge Connector	2.95

PRESSURE SENSITIVE COPPER TAPE ROLLS

12A10060	9106	W	1	.031 x 48" long	.95
12A10061	9106	W	1	.040 x 48" long	.95
12A10062	9101	W	1	.062 x 48" long	.95
12A10063	9102	W	1	.100 x 48" long	1.19
12A10064	9103	W	1	.126 x 48" long	1.29
12A10065	9104	W	1	.250 x 48" long	2.29

PRESSURE SENSITIVE INSULATION TAPE ROLLS

12A10066	9151	W	1	.100 x 10 ft. long	.95
12A10067	9153	W	1	.200 x 10 ft. long	1.29

PRESSURE SENSITIVE COPPER DONUT PADS

12A10068	9202	Y	100	.25 00 x .040 ID	\$1.49
12A10069	9203	Y	100	.187 00 x .040 ID	1.69
12A10070	9204	Y	100	.250 00 x .040 ID	1.89
12A10071	9209	Y	100	Assortment	1.79

PRESSURE SENSITIVE COPPER SHEETS

12A10072	9252	Z	2	3" x 4"	1.29
12A10073	9251	Z	2	5" x 6"	2.59

EPoxy-GLASS PRESSURE SENSITIVE INSULATION SHEETS (MICRO-THIN)

12A10074	9262	AA	2	3" x 4"	1.29
12A10075	9261	AA	2	5" x 6"	2.59

PRE-PUNCHED EPoxy-GLASS BOARD MATERIAL

12A10076	9301	BB	1	8.5" x 17" x .062	8.95
12A10077	9302	BB	1	4.25" x 8.5" x .062	3.29
12A10078	9303	BB	1	4.5" x 5" x .062	2.29
12A10079	9304	BB	1	2.5" x 4.5" x .062	1.49

PRE-PUNCHED PHENOLIC

12A10080	9343	BB	1	4.5" x 5" x .062	1.19
12A10081	9345	BB	1	4.5" x 17" x .062	2.29
12A10082	9348	BB	1	6" x 17" x .062	2.95

PRE-PUNCHED/PRE-SHAPED EPoxy-GLASS BOARDS

12A10083	9402	CC	1	"A"-4.5, "B"-6.5, "C"-22 pins	5.29
12A10084	9405	CC	1	"A"-4.0, "B"-4.5, "C"-15 pins	4.29

PLAIN/PRE-SHAPED EPoxy-GLASS BOARDS

12A10085	9452	CC	1	"A"-4.5, "B"-8.5, "C"-22 pins	2.95
12A10086	9455	CC	1	"A"-4.0, "B"-4.5, "C"-15 pins	2.39

CONNECTORS - .156" SPACING

12A10091	9501	EE	1	15 Pins	2.59
12A10092	9503	EE	1	22 Pins	3.29

PROTO-TYPE KITS

12A10093	9952	1	Mini-Kit Mounts 18 Components	3.95
12A10094	9953	1	Mini-Kit glass epoxy board, mounts 10 transistors, 6 DIP's, 16 discrete components	5.95
12A10095	9954	1	Maxi-Kit, 3 PC boards, mounts 10 transistors, 6 DIP's, 16 discrete components	12.95
12A10096	9955	1	Super-Kit mounts over 60 components. Enough material for many projects. In carrying case.	24.95



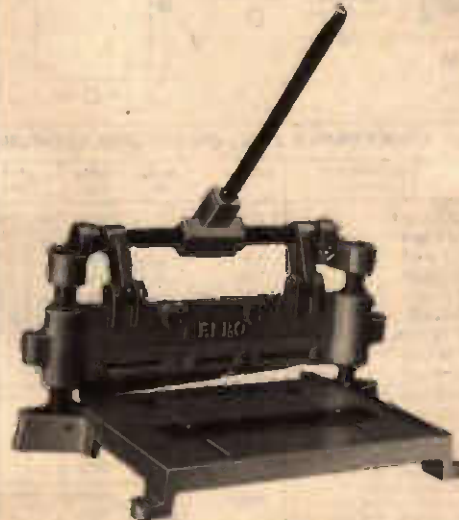
FLEXIBLE CIRCUITRY LAMINATES

Musta sheet .004" thick, size 6" x 18", copper clad on one side. Two ounce copper provides better heat sink protection of base film. Shpg. wt. 1 oz. copper 14 oz., 2 oz. copper 1 lb.

Stock No.	Kepro No.	Description	Each
12A10097	PI-618F	Unsensitized, 1 oz. copper clad	\$2.52
12A10098	S1-618F	Photosensitized, 1 oz. copper clad	4.95
12A10099	PI2-618F	Unsensitized, 2 oz. copper clad	3.05
12A10100	S12-618F	Photosensitized, 2 oz. copper clad	5.95

MODEL MS-6 BENCH TOP KEPRO MULTI-6 SHEAR

\$134.00 Model MS-6



Precision cutting for clad or unclad plastic up to 1/16" thick or sheet metal up to .040" thick. Will shear panels of XXXP phenolic, FR-3 paper-base epoxy, G-10 glass epoxy and mat polyesters in sizes through 12" wide. Supplied with squaring gauge, length gauge and shearing blades, front and back transparent blade guards 15" wide and 13" deep. Wt. 24 lbs. No. 37A5586, MS-6 Each \$134.00

ACCESSORY ATTACHMENTS FOR KEPRO MULTI-6 SHEAR

No. 37A5586, Pilot Hole Punch Set, PH-6, Wt. 4 lbs. Each	\$142.00
No. 37A5587, Random 2-Hole Punch Set, PS-2, Wt. 2 lbs. Each	\$44.00
No. 37A5588, Corner Notching Attachment, NA-1, Wt. 3 lbs. Each	\$48.00
No. 37A5589, Press Brake Attachment, PB-1, Wt. 3 lbs. Each	\$42.00
No. 37A5590, Drilling Attachment, DA-1, Wt. 4 lbs. Each	\$62.00

DALE EBT156 EDGEBOARD CONNECTORS

Glass filled black phenolic with gold flashed contacts, spaced .156". For 1/16" boards. PC pins are .031 square, .406 long. Solder lugs are .09" wide, .19" long.



Stock No.	Contacts	Stock No.	Contacts	1-24	25-49	50-99	100-249	250-499
12A5183	8 PC	12A6184	8 Lugs	\$1.08	\$0.96	\$0.84	\$0.77	\$0.71
12A5185	10 PC	12A5186	10 Lugs	1.16	1.02	.90	.82	.76
12A5187	12 PC	12A5188	12 Lugs	1.25	1.11	.98	.89	.82
12A5189	15 PC	12A5190	15 Lugs	1.36	1.19	1.05	.96	.88
12A5191	18 PC	12A5192	18 Lugs	1.41	1.24	1.09	1.00	.91
12A5193	22 PC	12A5194	22 Lugs	1.60	1.41	1.24	1.13	1.04

KEYSTONE PRE-PUNCHED BOARDS

1/4" with .062" holes spaced .187x.187 center to center.

UNCLAD XXXP NATURAL PHENOLIC

Stock No.	Keystone No.	Size W. L.	1-19	20-99	100-249
12A9625	1761	1.38x8.50	\$0.39	\$0.35	\$0.33
12A9626	1812	2.44x3.38	.16	.14	.12
12A9627	1735	2.84x8.50	.53	.48	.43
12A9628	1824	3.66x6.75	.45	.40	.38
12A9629	1762	5.69x8.50	.86	.78	.72
12A9630	1826	6.75x7.31	.75	.68	.63
12A9631	1828	7.31x10.50	1.20	1.08	1.02
12A9554	1763	8.50x17.00	1.90	1.68	1.58

XXXPC COPPER CLAD ONE SIDE

12A9632	1825	3.66x6.75	.70	.63	.59
12A9633	1834	5.69x8.50	1.60	1.44	1.36
12A9634	1827	6.75x7.31	1.60	1.44	1.36
12A9635	1829	7.31x10.50	1.90	1.71	1.61

KEYSTONE PUSH-IN TERMINALS

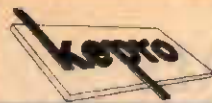
Made to fit perforated boards. Sub-miniature size for .062" holes. Beryllium copper, silver plated.

12A2309, "Flea" Clips, Keystone 1500	\$15.70
100 For..... \$1.75 1000 For..... \$15.70	
12A2310, "Imp" Terminal, Keystone 1499SP.	\$19.70
100 For..... \$1.75 1000 For..... \$19.70	

PHENOLIC UNPUNCHED PANELS



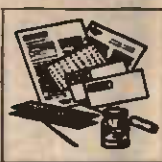
Stock No.	Keystone No.	Size	1-19	20-99	100-249
12A9621	1973	4.5x6.5	.45	.42	.40
12A9622	1974	4.5x8.5	.60	.55	.50
12A9623	1976	9 x 12	1.45	1.40	1.35



PRINTED CIRCUIT MATERIALS

Standard Etching Kit S101A. A complete assortment of material used for manually producing a basic printed circuit. Contains 2 copper clad unsensitized sheets 3x6 $\frac{1}{2}$ ", 1 perforated 3x6 $\frac{1}{2}$ " copper clad unsensitized phenolic sheet, etching resist, etching solution, plastic etching tray, etc. with step-by-step instructions. So simple that anyone can successfully produce printed circuit boards.

12A9610. S101A Kit. Wt. 1 $\frac{3}{4}$ lbs. Net Each... **\$3.95**
12A9611. S101A-G. Same kit with glass base material. **\$5.25**



Professional Etching Kit P101A. An etched circuit kit utilizing photo engraving process for fine professional quality work. A negative of layout is produced, then the sensitized sheet of copper clad phenolic board is exposed through the prepared negative after which it is developed and etched. Contains three sensitized boards (2—3x6, 1—3x3), 3 mechanical negatives of the same size, etch solution, wand developer, printing frame, trays, etc. with instructions. Wt. 2 $\frac{3}{4}$ lbs.

No. 12A9612. **\$5.85**
P101A Kit. Net Each...
12A9613. P101A-G. Same Kit with Glass Material... **\$7.40**



NP-3303A Enamel Nameplate & Panel Kit. Produces professional high contrast blue and aluminum panels. Kit supplies pressure sensitive opaque letters and numerals in three fonts which are arranged on a clear acetate sheet and used as a positive film to expose a photosensitized blue aluminum plate. In development, the opaque areas are washed away producing sharply detailed aluminum letters on a blue background. A double-face pressure sensitive sheet adheres the panel to desired area. Produces 160 sq. in. of plate.

No. 12A9688. Wt. 1 lb. 1 oz. Each... **\$7.25**



NAMEPLATE AND PANEL SUPPLIES

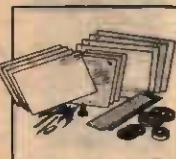
Stk. No.	Kepro No.	Description	Shpg. Wt.	Each
12A9689	NP-EPB10	Sensitive Enamel Plate 8 X 10"	6 Ozs.	\$7.45
12A9690	NP-EP1220	Sensitive Enamel Plate 12 X 20"	1 Lb.	4.13
12A9705	NPD-1PT	1 Pint Developer	2 $\frac{3}{4}$ Lbs.	2.50
12A9693	NP-AS	8 X 10" Adhesive Sheet	6 Ozs.	.90
12A9694	NP-AS1722	17 X 22" Adhesive Sheet	1 Lb.	2.75

FK-701 Photo Reversing Kit. Simple two-step process to prepare line negatives and positives from taped or ink artwork or to reverse existing negatives and positives. Needs no darkroom, 2-10x24" reversing film, chemicals, and instructions included. Shpg. wt. 1 $\frac{1}{2}$ lbs.

No. 12A9665. Each **\$7.20**

MASTER PHOTO LAYOUT KIT PL-200A

Produce professional PC artwork accurately and rapidly without inking and lettering. Includes: 2-18X24" Matte Surface Mylar; 2-18X24" Mechanical Negative; 4-17X 21" Graph Paper; 1-18X24" Master Mylar Grid Sheet; 112- $\frac{1}{8}$ " Term. Dots; 224- $\frac{1}{4}$ " Term. Dots; 288- $\frac{1}{4}$ " Term. Dots; 192- $\frac{1}{8}$ " Term. Dots; 252- $\frac{1}{2}$ " Term. Dots; 18 Yds. each of $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ conductor strips; 1-8X10" sheet of letters; Bow Compass, Blue Drawing Pencil, Pen Holder, Pen Point, Cutting Knife Set, Center Dot Cutter, Tweezers, Bottle Opaquing Fluid, Brush and Instructions. Shpg. wt. 4 lbs.



No. 12A9687 **\$38.70**
Complete Kit Each

Photo Layout Kit PL-2A. For preparing camera-ready artwork without inking and lettering. Reduced layout time by use of pressure-sensitive tapes, dots, letters and numerals. Contents: 96- $\frac{1}{4}$ " Tape Dot Terminations, 108"- $\frac{1}{8}$ " Tape Conductor Strips, 216"- $\frac{1}{8}$ " Tape Conductor Strips, 1 Sheet Letters and numerals assorted sizes, 1-8x10" acetate sheet, 1-8x10" Mech. Neg. 2-8X10" sheets of Graph paper and instruction sheet. Wt. 1 lb.

No. 12A9603. PL-2A. Each **\$3.95**

Printed Circuit Lab L505A. Meets all circuit board development needs of the industrial, laboratory or serious experimenter. Contains 15 sensitized boards, 3 copper clad unsensitized boards (1 perforated), trays for developing and etching, safelite, photoflood lamp, photo layout kit PL2A, 4x10 mechanical negative, etch and developer solutions with accessory items. With instructions. Wt. 21 lbs.

No. 12A9608. L505A Kit. With XXXP **\$34.75**
Boards. Each
12A9609. L505A-G Kit. With G10 Glass Boards. **\$42.95**



Electroless PC Board Tin Plating Kit ITP-801. Simple immersion process deposits thin coating of essentially pure tin to etched copper circuit to protect from oxidation and to provide exceptional solderability. A chemical process, requires no expensive electroplating equipment. Tin solution is heated to 160 degrees F. In high-temperature glass tray and circuit board is immersed for 3-5 minutes. Board is removed from tray, rinsed 3 minutes under running hot water, then another 3 minutes under running cold water. Includes glass tray, accommodating board sizes up to 7 X 10"; board handling rack; thermometer; 1 qt. immersion tin solution (sufficient for plating patterns on approx. 25 sq. ft. of etched panels) and complete instructions.

No. 12A9706. ITP-801 Kit. Shpg. wt. 10 lbs. Each... **\$13.95**
No. 12A9707. ITP-1PT. 1 Pt. Immersion Tin Solution. wt. 2 lbs. **\$4.50**
No. 12A9708. ITP-1G. 1 Gal. Immersion Tin Solution. wt. 11 lbs. **\$22.50**

ETCHED CIRCUIT COPPER CLAD MATERIALS

Laminated 1 ounce (.00135) copper clad materials, one or two sides, both in $\frac{1}{8}$ " XXXP paper base phenolic, $\frac{1}{8}$ " C-10 glass epoxy and $\frac{1}{8}$ " polyester laminate. All copper clad materials meet standard NEMA grade tolerances.

Materials supplied unsensitized (Unsen.) for screen processed parts and photo-sensitized (Sen.) for photo processed boards. Photosensitized materials are ready for exposure with no other sensitizing required.

MATERIAL'S PIECES PER PACKAGE ARE BULK PACKED—NOT INDIVIDUALLY SEALED IN SINGLE PACKAGES.

XXXP PAPER BASE PHENOLIC, 1 OZ. (.00135) COPPER CLAD

MATERIAL INDIVIDUALLY PACKAGED						MATERIAL 5 PIECES PER PACKAGE								
Stock No.	Kepro No.	Description	Size Inches	Wt. Ozs.	Net. Each	Stock No.	Kepro No.	Description	Size Inches	Weight Pk. of 5	1-4 Pks. Each	5-9 Pks. Each	10-19 Pks. Each	20-49 Pks. Each
12A9555	P1-33	Unsen. 1 side	3x3	1 $\frac{3}{4}$	\$0.40	12A9579	P1-335	Unsen. 1 side	3X3	12 Ozs.	\$ 1.45	\$ 1.25	\$ 1.15	\$ 1.05
12A9556	P1-36	Unsen. 1 side	3x6	3	.54	12A9580	P1-365	Unsen. 1 side	3X6	1 Lb.	2.05	1.80	1.65	1.50
12A9557	P1-1212	Unsen. 1 side	12x12	11	2.48	12A9581	P1-12125	Unsen. 1 side	12X12	3 $\frac{1}{2}$ Lbs.	11.15	9.45	7.35	7.00
12A9558	P2-33	Unsen. 2 side	3x3	1 $\frac{3}{4}$	.44	12A9582	P2-335	Unsen. 2 side	3X3	12 Ozs.	1.65	1.45	1.30	1.20
12A9559	P2-36	Unsen. 2 side	3x6	3	.64	12A9583	P2-365	Unsen. 2 side	3X6	1 Lb.	2.55	2.25	2.05	1.85
12A9560	P2-1212	Unsen. 2 side	12x12	10 $\frac{1}{2}$	3.22	12A9584	P2-12125	Unsen. 2 side	12X12	3 Lbs.	14.85	12.60	9.80	9.35
12A9561	S1-33	Sen. 1 side	3x3	1 $\frac{3}{4}$	.58	12A9585	S1-335	Sen. 1 side	3X3	12 Ozs.	2.35	2.00	1.85	1.70
12A9562	S1-36	Sen. 1 side	3x6	3	.90	12A9586	S1-365	Sen. 1 side	3X6	1 Lb.	3.85	3.30	3.00	2.80
12A9563	S1-66	Sen. 1 side	6x6	5	1.52	12A9587	S1-665	Sen. 1 side	6X6	1 Lb.	6.80	5.85	5.30	4.90
12A9564	S1-1212	Sen. 1 side	12x12	11	5.36	12A9588	S1-12125	Sen. 1 side	12X12	3 Lbs.	25.55	21.20	16.85	16.10
12A9565	S2-36	Sen. 2 side	3x6	3	1.22	12A9589	S2-365	Sen. 2 side	3X6	1 Lb.	5.45	4.70	4.25	3.95
12A9566	S2-66	Sen. 2 side	6x6	5	2.18	12A9590	S2-665	Sen. 2 side	6X6	1 Lb.	10.10	8.70	7.90	7.30
12A9567	S2-710	Sen. 2 side	7x10	5 $\frac{1}{8}$	3.86	12A9591	S2-7105	Sen. 2 side	7X10	1 $\frac{3}{4}$ Lbs.	18.25	15.70	14.25	13.15
12A9568	S2-1212	Sen. 2 side	12x12	10	7.62	12A9592	S2-12125	Sen. 2 side	12X12	3 Lbs.	36.85	30.60	24.30	23.20

G-10 GLASS EPOXY 1 OZ. (.00135) COPPER CLAD

12A9569	P1-36C	Unsen. 1 side	3x6	3 $\frac{1}{8}$	1.08	12A9593	P1-365C	Unsen. 1 side	3X6	1 Lb.	4.75	4.20	3.80	3.45
12A9570	P1-1212C	Unsen. 1 side	12x12	12	6.76	12A9594	P1-12125C	Unsen. 1 side	12X12	3 Lbs.	32.55	27.65	21.50	20.50
12A9571	P2-36C	Unsen. 2 side	3x6	3 $\frac{1}{8}$	1.12	12A9595	P2-365C	Unsen. 2 side	3X6	1 Lb.	4.95	4.35	3.95	3.60
12A9572	P2-1212C	Unsen. 2 side	12x12	11 $\frac{1}{2}$	7.06	12A9596	P2-12125C	Unsen. 2 side	12X12	3 Lbs.	34.05	28.95	22.45	21.45
12A9573	S1-36C	Sen. 1 side	3x6	3 $\frac{1}{8}$	1.44	12A9597	S1-365C	Sen. 1 side	3X6	1 Lb.	6.55	5.75	5.25	4.80
12A9574	S1-66C	Sen. 1 side	6x6	6	2.58	12A9598	S1-665C	Sen. 1 side	6X6	2 Lbs.	12.10	10.65	9.70	8.85
12A9575	S1-1212C	Sen. 1 side	12x12	10 $\frac{3}{4}$	9.64	12A9599	S1-12125C	Sen. 1 side	12X12	3 Lbs.	46.95	38.95	31.00	29.55
12A9576	S2-36C	Sen. 2 side	3x6	3 $\frac{1}{8}$	1.70	12A9600	S2-365C	Sen. 2 side	3X6	1 Lb.	7.85	6.90	6.30	5.75
12A9577	S2-66C	Sen. 2 side	6x6	6	3.16	12A9601	S2-665C	Sen. 2 side	6X6	2 Lbs.	15.00	13.20	12.00	10.95
12A9578	S2-1212C	Sen. 2 side	12x12	11 $\frac{1}{2}$	11.72	12A9602	S2-12125C	Sen. 2 side	12X12	3 Lbs.	57.35	47.60	37.85	36.10

GLASS MAT POLYESTER 1 OZ. COPPER CLADS

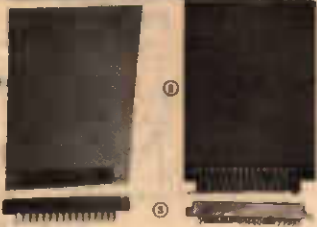
Offers high impact strength at low cost. Excellent physical and electrical stability.

12A9671	P1-36M	Unsen. 1 Side	3x6	3 $\frac{1}{8}$	\$0.58	12A9679	P1-365M	Unsen. 1 Side	3x6	1 Lb.	\$ 2.25	\$ 2.00	\$ 1.80	\$ 1.65
12A9672	P1-1212M	Unsen. 1 Side	12x12	12	2.84	12A9680	P1-12125M	Unsen. 1 Side	12x12	2 Lbs.	12.95	11.00	8.55	8.15
12A9673	P2-36M	Unsen. 2 Side	3x6	4	.70	12A9681	P2-365M	Unsen. 2 Side	3x6	1 Lb.	2.85	2.50	2.30	2.10
12A9674	P2-1212M	Unsen. 2 Side	12x12	11 $\frac{1}{2}$	3.82	12A9682	P2-12125M	Unsen. 2 Side	12x12	3 Lbs.	17.85	15.15	11.75	11.25
12A9675	S1-36M	Sen. 1 Side	3x6	3 $\frac{1}{8}$	.94	12A9683	S1-365M	Sen. 1 Side	3x6	1 Lb.	4.05	3.50	3.15	2.90
12A9676	S1-1212M	Sen. 1 Side	12x12	12	5.72	12A9684	S1-12125M	Sen. 1 Side	12x12	3 Lbs.	27.35	22.70	18.05	17.20
12A9677	S2-36M	Sen. 2 Side	3x6	4	1.28	12A9685	S2-365M	Sen. 2 Side	3x6	1 Lb.	5.75	4.95	4.50	4.15
12A9678	S2-1212M	Sen. 2 Side	12x12	14	8.42	12A9686	S2-12125M	Sen. 2 Side	12x12	3 Lbs.	40.85	33.90	29.95	25.75

ETCHED CIRCUIT PROCESSING CHEMICALS AND PHOTO LAYOUT SUPPLIES

Stock No.	Kepro No.	Description	Wt. Lbs.	Net Each	Stock No.	Kepro No.	Description	Wt.	Net Each
12A9701	R-1PT	1 Pt. Paint Etch Resist	2 $\frac{1}{4}$	\$2.25	12A9709	PRS-1PT	1 Pt. Photo Resist Stripper	2 Lbs.	1.95
12A9702	T-1PT	1 Pt. Paint Resist Thinner	2	1.95	12A9710	PRS-1G	1 Gal. Photo Resist Stripper	10 Lbs.	7.50
12A9616	D-1PT	1 Pt. Developing Solution	2	1.15	12A9670	AT-810	Pressure Sensitive Letters and Numerals For Artwork Nomenclature	4 Ozs.	2.50
12A9617	D-1C	1 Gal. Developing Solution	16	5.50	12A9669	MN-1212	12x12" Mechanical Negative	8 Ozs.	1.25
12A9667	D-5C	5 Gal. Developing Solution	75	25.00	12A9668	AS-3	Acetate Layout Film .005 Th. 18x24" Sheet	8 Ozs.	1.15
12A9618	E-1PT	1 Pt. Etching Solution	2	.85					
12A9619	E-1C	1 Gal. Etching Solution	15	3.50					
12A9666	E-5C	5 Gal. Etching Solution	70	15.25					

Vector CIRCUIT BOARDS AND TERMINALS



VECTOR PLUGBOARDS AND RECEPTACLES

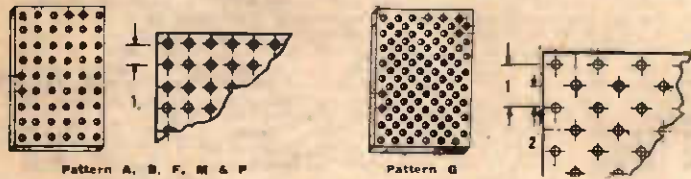
Ready to wire Plugboards for prototypes and short runs. All are furnished with over-all grid of pre-punched $\frac{1}{16}$ " dia. holes located on alternate intersections of a 0.1" grid. Contacts along bottom edge of board mate with listed receptacles. Pre-drilled to accept T-28 miniklips, standard turned terminals, or $\frac{1}{16}$ " dia. eyelets. All are $\frac{1}{16}$ " thick, epoxy paper per MIL-P-22324 or "WE" types are epoxy glass per MIL-P-18177.

① PLUGBOARDS WITH ATTACHED ELCO VARICON CONTACTS		Prices Each					
Stock No.	Vector No.	Size	Contacts	1-19	20-99	100-199	200-999
12A9526	812	4½x6½"	16	\$2.98	\$2.58	\$2.50	\$2.00
12A9527	812WE	4½x6½"	16	3.53	3.18	2.87	2.37
12A9528	837	3x4½"	12	2.33	2.10	1.96	1.56
12A9529	837WE	3x4½"	12	2.58	2.32	2.17	1.73
12A9530	848WE	6½x4½"	35	6.29	5.31	4.96	3.95

② COPPER CLAD ETCHED CONTACT PLUGBOARDS		Prices Each					
Stock No.	Vector No.	Front	Back	1-19	20-99	100-199	200-999
12A9531	838A	22	22	\$2.81	\$2.53	\$2.36	\$1.88
12A9532	838AWE	22	22	3.17	2.85	2.66	2.12
12A9533	838AWE-1GN	22	22	4.70	4.23	3.95	3.15
12A9534	838	22	21	3.89	3.50	3.27	2.61
12A9535	838WE	22	21	3.86	3.47	3.24	2.59
12A9536	838WE-1GN	22	21	5.81	5.23	4.88	3.89

③ RECEPTACLES FOR ABOVE PLUGBOARDS		Prices Each				
Stock No.	Vector No.	Contacts	For	1-99 Ea.	100-249 Ea.	250-999 Ea.
12A9537	R616-1	16	812, 812WE	\$3.16	\$2.29	\$1.90
12A9538	R612-1	12	837, 837WE	2.56	1.36	1.54
12A9539	R635	35	848WE	5.76	4.18	3.46
12A9504	R644	44	All 838 Series	1-24 Ea. \$2.97	25 Up. Each	\$2.48

VECTORBOARD PREPUNCHED INSULATING BOARDS



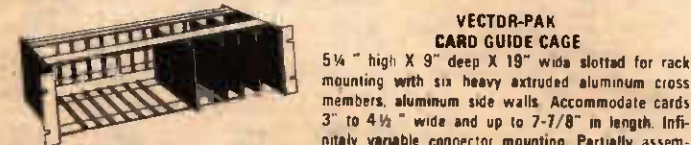
Convenient and economical method of assembling circuit components. All boards accept zip push in terminals shown, turned terminals and eyelets may be used. All are unclad phenolic except those marked * which are Epoxy paper; † Epoxy glass; ** 2 oz. copper clad one side.

Pattern A—Dimension 1 is .265" between centers; Pattern B—Dimension 1 is .188" (1/4") between centers; Pattern F—Dimension 1 is .2" between centers; Pattern M—Dimension 1 is .05" between centers; Pattern P—Dimension 1 is .1" between centers; Pattern G—Dimension 1 is .2" between centers. Dimension 2 is .1" between centers.

Stock No.	Mfg. No.	Pattern	Hole Dia.	Size Inches	1-19	20-99	100-199	200-999
12A9505	18A18	A	.093	4.8x4.8x1/16	\$0.47	\$0.42	\$0.39	\$0.31
12A9506	32A9	A	.093	8.51x2.41x1/16	.54	.49	.45	.36
12A9649	32AA7	A	.093	9.51x1.88x1/16	.58	.52	.49	.39
12A9507	64A18	A	.093	16.99x4.8x1/16	1.35	1.22	1.13	.90
12A9581	72A32	A	.093	19.11x8.51x1/16	2.42	2.18	2.03	1.62
12A9508	64AA18	A	.093	16.99x4.8x1/16	1.73	1.56	1.45	1.18
12A9509	64AA32	A	.093	16.99x8.51x1/16	2.97	2.67	2.49	1.99
12A9510	64AA132	A	.093	35.01x16.99x1/16	10.87	9.78	9.13	7.28
12A9500	*85F24EP	F	.062	16.99x4.8x1/16	2.28	2.05	1.92	1.53
12A9511	*85F42EP	F	.062	16.99x8.5x1/16	3.95	3.56	3.32	2.65
12A9512	**3106-1XXXP	F	.062	4.5x3x1/16	1.25	1.13	1.05	.84
12A9513	**3070-1XXXP	F	.062	6.5x4.5x1/16	1.49	1.34	1.25	1.00
12A9514	85G24	G	.062	16.99x4.8x1/16	1.60	1.44	1.34	1.07
12A9515	*85G24EP	G	.062	16.99x4.8x1/16	2.28	2.05	1.92	1.53
12A9516	†42G24WE	G	.062	8.51x4.8x1/16	1.87	1.77	1.65	1.32
12A9517	45B30	B	.062	8.51x5.69x1/16	.90	.81	.76	.60
12A9518	†85G24WE	G	.062	16.99x4.8x1/16	3.96	3.56	3.33	2.66
12A9519	90B30	B	.062	16.97x5.69x1/16	1.97	1.77	1.65	1.32

NEW MICRO-VECTORBOARD* FOR MOUNTING D.I.P.'S AND FLAT PACKS		Prices Each						
Stock No.	Mfg. No.	Pattern	Hole Dia.	Size Inches	1-19	20-99	100-199	200-999
12A9520	*64P44-062EP	P	.042	6.5x4.5x1/16	\$1.80	\$1.52	\$1.42	\$1.13
12A9521	†126M76/032	M	.025	6.5x4x1/16	2.29	2.06	1.92	1.53
12A9522	169P47-062EP	P	.042	17x4.8x1/16	3.88	3.58	3.34	2.67
12A9523	**169P59/032C1	P	.042	17x6x1/16	7.35	6.82	6.17	4.92
12A9712	169P79/062	P	.042	17x8x1/16	7.69	6.92	6.46	5.15
12A9652	†169P84-062	P	.042	17x8½x1/16	7.89	7.15	6.71	5.35
12A9525	†336M76/032	M	.025	17x4x1/16	5.49	4.94	4.61	3.68

UNPUNCHED VECTORBOARD — 2 OZ. COPPER CLAD ONE SIDE		Prices Each				
Stock No.	Vector No.	Size	1-19	20-99	100-199	200-999
12A9654	CUG5/45-1	6½x4½x1/16"	\$0.75	\$0.68	\$0.63	\$0.50
12A9656	C045/30WE-1	4½x3x1/16"	.88	.79	.74	.59
12A9657	CUG5/45WE-1	6½x4½x1/16"	1.47	1.32	1.23	.98
12A9658	C085/45WE-1	8½x4½x1/16"	1.78	1.60	1.50	1.19



5½" high X 9" deep X 19" wide slotted for rack mounting with six heavy extruded aluminum cross members, aluminum side walls. Accommodate cards 3" to 4½" wide and up to 7-7/8" in length. Infinitely variable connector mounting. Partially assembled for quick setup. Supplied with discrete aluminum card guides to accommodate 20 cards at ¼" intervals. Adjustable for other spacing in multiples of ¼".

No. 12A9969. CCK13. 1 to 9 Each \$29.50
 10 to 49 Each \$28.00
 No. 12A9970. Additional Card Guides. BR20-6H. Package of 12. \$2.66



"D.I.P." VECTOR PLUGBOARDS FOR DUAL-IN-LINE IC's

Plug-in mounting boards for 14 or 16 lead dual-in-line integrated circuits. Boards are 1/16" thick epoxy paper material measuring 4½" x 8½" overall with an aluminum frame on 3 sides which fits 1/16" card guides. Boards have overall "T" pattern of .041" diameter holes on D.I. spaced grid and an X-Y matrix pattern of .070" etched copper lines running vertically on board front and horizontally on board back.

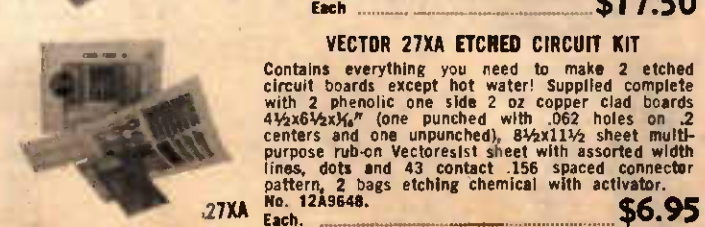
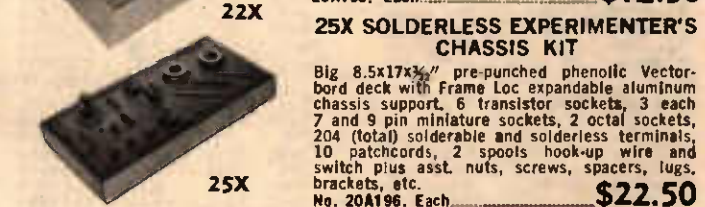
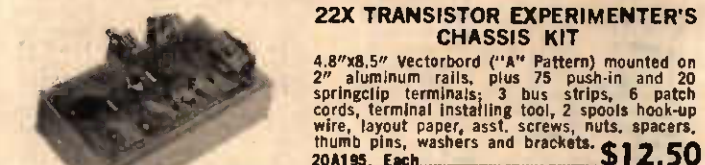
Pad layouts for 12 D.I.P.'s are provided on all listed types with matrix. Copper lines may be broken with listed line cutter chisel. T42-1 Microclip push-in terminals shown on next page make possible speedy circuit construction.

3474 D.I.P. Plugboard (Built-Up Model)		Prices Each				
Stk. No.	Mfg. No.	Description	1-19	20-99	100-199	200-999
12A9500	3474	4½x6½", 44 etched contacts, X-Y matrix	\$10.50	\$9.45	\$8.82	\$7.04
12A9501	3474-2	4½x6½", 44 etched contacts, no matrix	7.95	7.16	6.68	5.33
12A9502	3474-3	4½x6½", 22 etched contacts, Y matrix back side	8.08	7.27	6.79	5.41
12A9659	3477-7	4½x6½", 72 etched contacts, X-Y matrix	9.94	8.95	8.35	6.66
12A9661	3477-8	4½x6½", 36 etched contacts, Y matrix back side	8.94	8.05	7.51	5.95

3677 SERIES D.I.P. PLUGBOARDS		Prices Each						
Stk. No.	Mfg. No.	Contacts	Length	Width	1-19	20-99	100-199	200-999
12A9967	3677	44	9.6	4.5	\$9.89	\$8.90	\$8.31	\$6.63
12A9968	3677-2	44	6.5	4.5	8.84	7.96	7.43	5.92

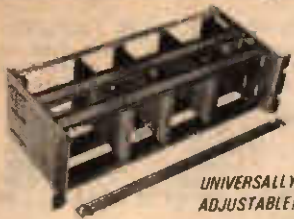
3682 TYPE D.I.P. PLUGBOARD		Prices Each						
Stock No.	Mfg. No.	Contacts	Length	Width	1-19	20-99	100-199	200-999
12A9971	3682	44	9.6	4.5	\$9.50	\$8.55	\$7.58	\$6.37
12A9972	3682-2	44	6.5	4.5	8.49	7.64	7.13	5.69
12A9973	3682-4	44	6.5	4.5	9.25	8.33	7.77	6.20

22X TRANSISTOR EXPERIMENTER'S CHASSIS KIT		Prices Each						
Stock No.	Mfg. No.	Contacts	Length	Width	1-19	20-99	100-199	200-999
12A9503	P-139	Line Cutter						\$3.85
12A9504	R644	Receptacle for 3474, 3677, 3682 Series			1-24 Ea. \$2.97	25 Up. Ea. \$2.48		
12A9662	R636	Receptacle for 3477 Series						\$5.95



27XA Each \$6.95

SEMICONDUCTOR COMPONENTS

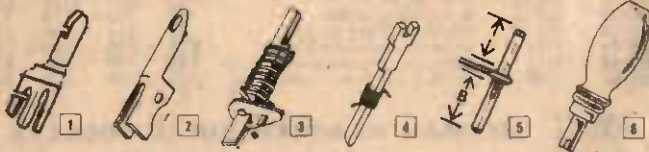


H. H. SMITH PRINTED CIRCUIT CARD RACK

Adjusts for card widths 2 3/8 to 4 3/4", for card lengths 3 1/2 to 7 1/2", and for connectors with mounting centers .936" to 4.437". Card spacing is adjustable in .400" increments, minimum spacing is .400". Card capacity up to 39 cards. Adjustable locking bar holds cards securely against rear connectors. Card guides are precision molded plastic, four guides per card for location accuracy. Guides nest together in staggered holes for minimum card spacing. Card guides and connector rails adjust smoothly on nylon bushings. Index marks are stamped on end plates for standard card sizes. Guides fit 1/16" thick cards. Heavy gauge clear anodized aluminum, size 18" L x 5 1/4" H x 8" D. Fits standard 19 inch equipment racks. Can be stacked in multiples of 5 1/2". Complete with all hardware, card guides and instructions, shipped knocked down.

No. 12A10101 Smith No. 3050 1 to 9 Each \$27.95 10 to 24 Each \$25.95
25 to 99 Each \$23.95 100 up Each \$21.95

VECTOR "ZIP" TERMINALS AND TOOLS



Bright tinned, serrated teeth grip several leads for good contact. T32 series provides reliable solderless contact for up to 6 leads and may be used over and over. Nickel plated.

Fig.	Stk. No.	Mfg. No.	Pkg. Quantity	Per Pkg.	5 Pkgs. Ea.
1	12A2210	T9-4	Fits .093 holes	100	\$ 1.49
2	12A2211	T9-4	Fits .093 Holes	1000	10.69
3	12A2212	T28	Miniklip Fits .062 Holes	100	1.61
4	12A2213	T28	Miniklip Fits .062 Holes	1000	11.44
5	12A2214	T42-1	Microklip Fits .042 Holes	100	1.82
6	12A2215	T42-1	Microklip Fits .042 Holes	1000	11.70

SPRING CLIP PUSH-IN TERMINALS

Provides fast, reliable circuit set-ups without soldering, bending or crimping component leads.

Fig.	Stk. No.	Mfg. No.	Fits	Quantity	Per Pkg.
1	12A2216	T32A-1	Fits .062 Holes	10	\$ 1.47
2	12A2217	T32A-1	Fits .062 Holes	100	10.82
3	12A2218	T32A	Fits .093 Holes	10	1.47
4	12A2219	T32A	Fits .093 Holes	100	10.82

WIRE WRAP TERMINAL

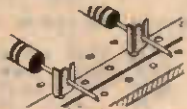
Fig.	Stk. No.	Mfg. No.	Description	Quantity	Per Pkg.
1	12A2644	T44	Miniwrap fits .042 holes	100	\$2.96
2	12A2645	T44	Miniwrap fits .042 holes	1000	21.48

INBORO PINS FOR .042 HOLES

Stk. No.	Mfg. No.	A	B	Plating	50 For	1000 For	5000 Per M
1	12A2646	K24A	.255	.375	Nickel-gold	\$1.75	\$22.65
2	12A2647	K24C	.255	.375	Tin/Inlute	.98	12.33
3	12A2648	K31A	.160	.195	Nickel-gold	1.25	15.95
4	12A2649	K31C	.160	.195	Tin/Inlute	.95	10.50
5	12A2650	K38A	.062	.600	Nickel-gold	1.75	25.50
6	12A2651	K38C	.062	.600	Tin/Inlute	1.25	16.15

INSERTION TOOLS FOR ABOVE CLIPS

Fig.	Stk. No.	Description	Price
1	12A2220	P122B For T9-4 Terminals, Each	\$1.60
2	12A2221	P91A For T28 Terminals, Each	\$1.50
3	12A2222	P136 For T32 Terminals, Each	\$1.75
4	12A2223	P149A For T42-1 Terminals, Each	\$1.89
5	12A9965	A13 For T44 Miniwrap, Each	\$1.69
6	12A9966	P133A for K24, K31, K38 Terminal, Each	\$1.95



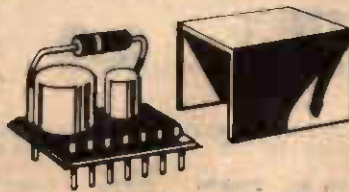
VECTOR BUS STRIP

Prepunched narrow brass thin strip mounts to prepunched boards with Zip Push-in terminals or screws. Make connections wherever required quickly.

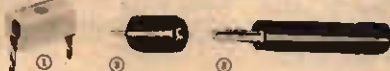
Stock No.	Mfg. No.	Description	Pkg. 10	Pkg. 100
12A2640	T57	16" long, .093" holes spaced .265"	\$1.79	\$14.89
12A2641	T58	8" long, .093" holes spaced .265"	1.10	8.69
12A2642	T104	17" long, .062" holes spaced .2"	1.21	11.00
12A2643	T107	14" long, .042" holes spaced .1"	2.39	22.69

I. R. COMPONENT CARRIER

Create your own Dual-in-line I.C. 14DIP base and snap on cover are glass filled nylon, with gold over nickel plated brass pins to accept leads to size 24. Inside cap clearance .440" hor., .5" vertical. Pins fit DIP sockets or perforated board with hole spacing of .1" x .1".
No. 12A2556, I.R. No. SH149. **\$1.20**
1-4 Each \$1.20
5-9 Each \$1.08
10-99 Each .95c
100 Up each .83c



E. F. JOHNSON PRINTED CIRCUIT CONNECTORS



Illus. Fig.	Stock No.	Mfg. Type	Mfg. Hole	Over. Lgth.	Description	1-99 Each	100-499 Each	500-999 Each
1	12M6077	EJ105	4/10"	Hor.	Jack 750 Series	.10	.08	.068
2	12M6078	EJ105	.052	5/8"	Vert. Jack 850 Series	.15	.12	.109
3	12M6079	EJ105	7/8"	TP 770 Series		.23	.20	.176

TRAN-TEC CORPORATION

HEAT SINKS FOR SEMICONDUCTORS

Optimum combinations of fin design and fin spacing—giving maximum heat transfer per ounce of dissipator weight. All are extruded aluminum with a high emissivity black anodized finish.



MILLIWATT COOLERS

Stock No.	TTC No.	Size Inches	1-99	100-499	500-999	1000-9999
12C383	202A318	1/2x1/2x1/2	\$0.30	\$0.25	\$0.221	\$0.195
12A2224	212A318	3/4x3/4x3/4	.30	.26	.224	.197
12A2225	222A318	3/4x3/4x3/4	.31	.27	.229	.202
12A2226	232A318	1x1x1	.33	.29	.244	.215



NATURAL CONVECTION COOLERS

Stock No.	TTC No.	H. Inches	W. Inches	D. Inches	1-49	50-99	100-249	250-499	500-999
12C322	*170613	3	4.6	1	\$1.08	\$0.92	\$0.80	\$0.65	\$0.60
12C328	170610	3	4.6	1	1.27	1.10	.94	.76	.70
12C330	*171213	6	4.6	1	\$1.70	\$1.46	\$1.32	\$1.01	\$0.93
12C333	171210	6	4.6	1	2.07	1.80	1.52	1.24	1.13
12A2227	14A0610	3	4.5	2.5	1.58	1.38	1.16	.95	.87
12A2228	14A1110	5.5	4.5	2.5	2.35	2.04	1.72	1.41	1.30

*Plain Aluminum—not anodized, all others are black anodized.

FLAT BOTTOM COOLERS

Stock No.	TTC No.	H. Inches	W. Inches	D. Inches	1-49	50-99	100-249	250-499	500-999
12A2229	110610	3	4.4	1.3	1.18	1.01	.85	.72	.67
12A2230	111110	5.5	4.4	2.1	1.81	1.40	1.18	1.04	.97

LOW PROFILE PC BOARD COOLERS

Stock No.	TTC No.	H. Inches	W. Inches	D. Inches	1-49	50-99	100-249	250-499	500-999
12A2231	190610	3	4.8	.45	\$1.13	.95	.86	.78	.74
12A2232	191110	5.5	4.8	.45	1.27	1.10	.92	.81	.76

TTC TYPE 17 3-FOOT EXTRUSIONS

Same pattern as Type 17 above except no mounting notches.
No. 12A2245, Plain Aluminum, soap cleaned and deoxidized.
1-4 Each \$7.33 5-9 Each \$6.18 10-24 Each \$5.64
No. 12A2246, Black Anodized Aluminum.
1-4 Each \$8.82 5-9 Each \$7.47 10-24 Each \$6.93

RADIAL RECTIFIER COOLERS

M indicates tapped 10-32 thread, N indicates tapped 1/4-28 thread for stud mount rectifiers (up to 1/2" hex case). Tap is 3/8" deep. R indicates ream .4975", RR indicates ream both ends for press fit rectifiers. All are 2" square.

Stock No.	TTC No.	Ins. High	1-49	50-99	100-249	250-499	500-999
12A2233	180310M	.75	\$1.09	\$0.93	\$0.80	\$0.70	\$0.63
12A2234	180310N	.75	1.09	.93	.80	.70	.63
12A2235	180310R	.75	1.05	.91	.78	.68	.60
12A2236	180610M	1.5	1.36	1.17	1.01	.86	.79
12A2237	180610N	1.5	1.36	1.17	1.01	.86	.79
12A2244	180610R	1.5	1.32	1.15	.99	.84	.76
12A2238	180610RR	1.5	1.53	1.34	1.16	1.01	.90
12A2239	181210M	3	1.85	1.60	1.36	1.15	1.05
12A2240	181210N	3	1.85	1.60	1.36	1.13	1.05
12A2241	181210R	3	1.81	1.58	1.34	1.13	1.02
12A2242	181210RR	3	2.02	1.77	1.61	1.30	1.16

INTERNATIONAL RECTIFIER TRANSISTOR HEAT SINKS

3/8 inch long heat exchanger fits directly on semiconductor types shown. Packed in packages of two.

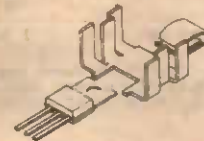
Stock No.	I.R. No.	O.D. Inch	For Device	Price per pkg.
12A2835	HE104	11/16"	TO-18, 24, 28, 40, 70-4	.60 .54 .48 .42
12A2836	HE105	3/4"	TO-5, 9, 11, 12, 15, 26, 29, 33, 39, 42, 43, 45	.60 .54 .48 .42



IR UNIVERSAL TAB TYPE HEAT SINK

For power tab plastic transistors, SCRs, Triacs. Beryllium copper clip assures good heat transfer from tab to aluminum sink.

Stock No.	I.R. No.	1-4 Each	5-9 Each	10-99 Each	100 Up
12A2555	HE-106	\$0.68	\$0.62	\$0.55	\$0.48



IR UNIVERSAL TRANSISTOR CUP

For case mounted medium and high power TO-3, 6, 36, 66 types.

Stock No.	I.R. No.	1-4 Each	5-9 Each	10-99 Each	100 Up
12A2554	HE-223	\$1.44	\$1.30	\$1.15	\$1.00



HEAT SINK COMPOUND

Eliminates air gap between heat sink and semiconductor. Reduces thermal impedance.

17A1308	GC 8101, 1 Oz. Tube, Each	\$2.39
17A1309	TTC XL500, 4 Oz. Jar, Each	2.85
17A1310	TTC XL500, 8 Oz. Jar, Each	5.48

CINCH INSULATOR WAFER



Anodized aluminum for use with TO-3 power transistors. Combines high dielectric insulation with high thermal conductivity to the heat sink. 4-hole type.

12A53, 2W-1	463 99 99 093 920 1-249 Ea.	64
250-499 Ea.		42

I-C SOCKETS, AUGAT SOCKETS

AUGAT DUAL IN-LINE SOCKETS



FOR TESTING AND PACKAGING INTEGRATED CIRCUITS

Sockets accept packages with flat or round leads. Printed circuit terminals are same dimension as IC lead with direct interchangeability. Unique contact construction eliminates capillary action of solder or flux. Wire Wrap terminal has sufficient length for 3 levels of 30 gauge wire. * has .6" spacing on terminals.

Stock No.	Part No.	No. of Fig. Contacts	Body Material	Contact Plating	Prices Each		
					1-99	100-499	500-999
12A5169	314-AG5A-R	① 14	Diallyl Phthalate	Gold/Nickel	\$0.70	\$0.61	\$0.53
12A5170	314-AG6A-R	② 14	Diallyl Phthalate	Gold/Nickel	.81	.71	.62
12A5065	314-AG5D-2R	③ 14	Phenolic	Tin	.45	.40	.35
12A5133	314-AG5D-R	④ 14	Diallyl Phthalate	Gold/Nickel	.70	.61	.53
12A5134	314-AG5D-3R	⑤ 14	Phenolic	Gold/Nickel	.61	.53	.46
12A5066	314-AG5F-2R	⑥ 14	Phenolic	Tin	.73	.64	.56
12A5067	314-AG6F-R	⑦ 14	Diallyl Phthalate	Gold/Nickel	1.37	1.20	1.04
12A5167	514AG1D	⑧ 14	Nylon	Gold/Nickel	1.29	1.13	.99
12A5171	316-AG5A-R	⑨ 16	Diallyl Phthalate	Gold/Nickel	.93	.81	.71
12A5172	316-AG6A-R	⑩ 16	Diallyl Phthalate	Gold/Nickel	1.06	.93	.81
12A5071	316-AG5D-2R	⑪ 16	Phenolic	Tin	.54	.47	.41
12A5139	316-AG5D-R	⑫ 16	Diallyl Phthalate	Gold/Nickel	.93	.81	.71
12A5135	316-AG5D-3R	⑬ 16	Phenolic	Gold/Nickel	.71	.62	.54
12A5072	316-AG5F-2R	⑭ 16	Phenolic	Tin	.83	.72	.63
12A5073	316-AG6F-R	⑮ 16	Diallyl Phthalate	Gold/Nickel	1.65	1.44	1.25
12A5168	516-AG1D	⑯ 16	Nylon	Gold/Nickel	1.41	1.23	1.07
12A5137	324AG2D	⑰ 24*	Diallyl Phthalate	Beryllium	1.90	1.65	1.45
12A5138	324AG2F	⑱ 24*	Diallyl Phthalate	Gold	2.50	2.19	1.90
12A5139	336AG2D	⑲ 36*	Diallyl Phthalate	Beryllium	2.28	1.99	1.74

AUGAT TRANSISTOR AND IC SOCKETS



BASIC SOCKET OUTLINES



BASIC CONTACT OUTLINES



Stock No.	Augat No.	For Case Size	Socket Outline	No. of Conts.	Cont. Outline	Pin Circle Diam.	Prices Each		
							1-99	100-499	500-999
12A5085	8060-1G3	TO-18	①	3	A	.100"	\$0.84	\$0.56	\$0.50
12A5086	8060-1G4	TO-18	②	4	B	.100"	.78	.69	.61
12A5087	8060-1G5	TO-18	③	3	A	.100"	.61	.53	.48
12A5088	8060-1G6	TO-18	④	4	B	.100"	.75	.66	.59
12A5089	†8069-1G1	TO-5	⑤	3	A	.200"	.59	.52	.46
12A5091	8058-1G23	TO-5	⑥	3	A	.200"	.61	.53	.48
12A5092	8058-1G24	TO-5	⑦	4	B	.200"	.75	.66	.59
12A5093	8058-1G29	TO-5	⑧	3	A	.200"	.61	.53	.48
12A5094	8058-1G30	TO-5	⑨	4	B	.200"	.75	.66	.57
12A5095	8058-1G33	RO-52	⑩	6	C	.200"	1.04	.91	.81
12A5099	8058-1G49	TO-5	⑪	8	E	.200"	1.34	1.18	1.05
12A5102	8058-1G46	TO-5	⑫	8	E	.230"	1.34	1.18	1.05
12A5103	8058-1G34	TO-5	⑬	10	F	.230"	1.65	1.44	1.29
12A5104	8058-1G22	TO-5	⑭	10	F	.230"	1.65	1.44	1.29
12A5105	8058-1G51	TO-5	⑮	12	G	.280"	1.94	1.89	1.51
12A5106	8058-1G28	TO-5	⑯	12	G	.280"	1.94	1.69	1.51
12A5107	†8070-1G1	TO-8	⑰	3	A	.280"	1.87	.94	.84
12A5109	8060-1G20	TO-92/TO-98	⑱	3	H	.062" in line	.61	.53	.48
12A5110	†8080-1G1	TO-3	⑲	2	J		.35	.31	.28
12A9553	IC Extractor Tool, T114-1	Each							50*

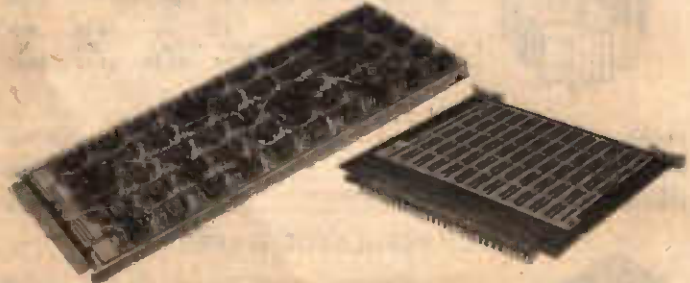
8058 requires .367" chassis cutout, 8060 requires .221" chassis cutout, 8070 requires .437" chassis cutout.

Materials (unless otherwise specified)—Insulator—Teflon; Contact—Beryllium copper per QQ-C-530; Terminal Sleeve—Brass per QQ-B-626; Contact and terminal sleeve are gold plated .00040" thick per MIL-G-45204 over nickel plate .00005/.00001" thick.

†Insulator glass epoxy.

‡Contact/Terminal Beryllium copper gold over nickel plated.

§Insulator black phenolic per MIL-M-14, type CFG, contact beryllium copper, electro tin plated, mounting saddle and eyelet brass, electro tin plated, chassis Insulator mica.



B-A offers complete availability of all Augat Components, breadboard and test panels, IC packaging panels and accessories. The entire Augat line is listed in the current Augat Catalog, FREE with your order. Ask for No. 18A1110. Contact B-A Industrial Department for prices on Augat items not listed here.

VECTOR I.C. SOCKETS FOR DUAL-IN-LINE PACKAGES

Tabs fit "P" pattern Micro-Vectorbord or "DIP" Plugboards. Castings are glass filled nylon with phosphor bronze nickel gold plated contacts on wire wrap type, and tin plated contacts on solder tab type.

Stk. No.	Mfg. No.	Contacts	Terminals	Each	Pkg. of 5
12A5048	R714-1	14	P.C. Solder	\$0.75	\$3.20
12A9663	R714	14	Wire Wrap	1.19	4.90
12A5049	R716-1	16	P.C. Solder	.85	3.85
12A9564	R716	16	Wire Wrap	1.44	5.90
12A9553	Extractor Tool		Assists removal of IC. Ea.		50c



SOLOERLESS SOCKETS

Allow multiple connections to be made to any pin by connecting wires to solderless spring clip terminal which is permanently connected to socket contact. Tube socket types mount on Vectorboard with furnished hardware; 570B and 570G press fit in .093 holes spaced on .265 centers.



Stock No.	Mfg. No.	Description	Prices Each			
			1-49	50-199	200-499	500 Up
12A5176	567-1C	Octal Socket	\$1.65	\$1.49	\$1.16	\$1.11
12A5177	568-1C	Noval (9-pin) Socket	1.85	1.67	1.30	1.24
12A5178	569-1C	Miniature (7-pin) Socket	1.49	1.34	1.04	1.00
12A5179	570B	Universal Transistor Socket	2.75	2.48	1.93	1.84
12A5180	570F	12 Pin I.C. Breadboarding Socket	3.95	3.60	3.20	2.98
12A5181	570G	14 Pin D.I.P. Breadboard Socket	3.95	3.60	3.20	2.98



HERMAN H. SMITH DIP IC SOCKETS

Stock No.	Smith No.	Conts.	Phenolic body. Electro plated contacts.		
			1-24	25-99	100 Up
12A5157	6252	14	50c	43c	40c
12A5158	6253	16	50c	43c	40c

CINCH INTEGRATED CIRCUIT SOCKETS

TO-5 case IC sockets. Molded diallyl phthalate type SDG per MIL-M-14. Contacts are .00003 gold plated beryllium copper.

Stock No.	Cinch No.	Factory Part No.	Cont.	Prices Each				
				1-24	25-49	50-99	100-249	250-499
12A5051	6	133 96 92 060	6	\$0.58	\$0.46	\$0.39	\$0.32	\$0.30
12A5052	8	133 98 92 061	8	.69	.56	.47	.37	.36
12A5025	10	133 99 92 054	10	.77	.61	.51	.42	.39



IR TO-5, 12 PIN I.C. SOCKET

Stock No.	I.R. No.	Prices Each			
		1-4 Ea.	5-9 Ea.	10-99 Ea.	100 Up
No. 12A5175	SH137	\$0.85	\$0.85	\$0.75	\$0.66



DIP SOCKETS

Accept standard 14, 16 or 24 lead DIP with round or flat leads. Socket leads on same centers as DIP leads. Solder in PC board or use 4-40x1/4 Fillister head screw for chassis mount. DIP-1 is Diallyl Phthalate, DIP-1s Black Phenolic body.

Stock No.	Cinch No.	Factory Part No.	No. of Conts.	Contact Plating	Prices Each				
					1-24	25-49	50-99	100-249	250-499
12A5159	14DIP	133 51 02 003	14	Electro Tin	\$0.82	\$0.65	\$0.55	\$0.43	\$0.414
12A5160	14DIP-1	133 51 92 005	14	Gold	1.07	.85	.71	.56	.540
12A5161	16DIP	133 51 02 006	16	Electro Tin	.91	.73	.61	.484	.460
12A5162	16DIP-1	133 51 92 008	16	Gold	1.17	.94	.78	.624	.593
12A5163	24DIP	133 59 02 011	24	Electro Tin	1.36	1.09	.92	.738	.703
12A5164	24DIP-1	133 59 92 010	24	Gold	1.61	1.29	1.08	.87	.828



① RECTANGULAR TRANSISTOR SOCKETS. Low loss phenolic with push-on mtg. ring. Contacts are beryllium copper, silver plated.

Stk. No.	Cinch No.	Factory Part No.	Prongs	Prices Each				
				1-24	25-49	50-99	100-249	250-499
12A5001	2H3	131 13 12 085	3	\$0.29	\$0.25	\$0.21	\$0.17	\$0.16
12A5002	2H5	131 15 12 086	5	.25	.20	.17	.15	.14
② CINCH UNIVERSAL SOCKET. For use with all transistors with 3 or 4 leads. Gold plated copper contacts. Snap-in P.C. mount.								
12A5122	7-UTS	133 27 12 011		1.01	.81	.67	.54	.51
③ CINCH ALL-MOLOED SOCKET. Fits triangular base .2 x .1" centers, or 3-contact in-line, .048 x .192 contact centers. Bakelite with phosphor bronze contacts.								
12A5003	2TS-4	133 14 01 011		.17	.14	.12	.107	.097



POWER TRANSISTOR SOCKETS FOR TO-3 CASE

① POWER TRANSISTOR SOCKETS. Wafer type for 2-prong transistors with 7/8" spacings. Size 1 1/4" X 1". Cadmium plated brass contacts.

Stk. No.	Cinch No.	Factory Part No.	Prongs	Prices Each				
				1-24	25-49	50-99	100-249	250-499
12A5004	2TS-1	133 32 10 013		\$0.13	\$0.11	\$0.10	\$0.086	\$0.076
12A5005	2TS-2	133 32 10 015		\$0.13	\$0.11	\$0.10	\$0.086	\$0.076
② MOLDED PHENOLIC SOCKET. Phosphor bronze contacts. Mounting ctrs. .425".								
12A5006	2TS-3	133 12 02 016		\$0.13	\$0.11	\$0.10	\$0.086	\$0.076

IR POWER TRANSISTOR SOCKETS

XP phenolic wafer with nylon top plate. Supplied with mounting screws and template.

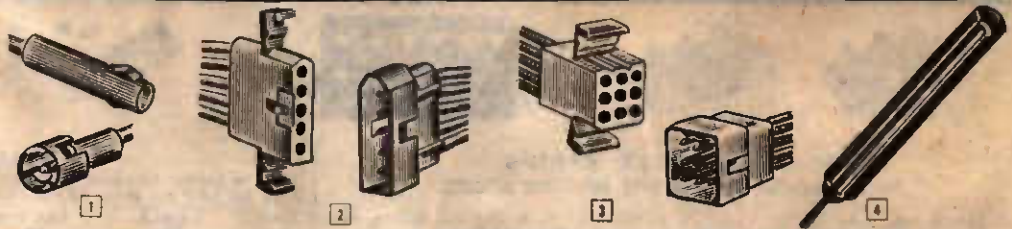
Stock No.	IR No.	For	Prices Each			
			1-4	5-9	10-99	100 Up
12A5173	SH131	TO-3	30c	27c	24c	21c
12A5174	SH132	TO-66	30c	27c	24c	21c



waldom/molex CONNECTORS, BINDING POSTS

NYLON CABLE CONNECTORS

Highly reliable, versatile connectors rated 250 volts per circuit. For business machines, appliances, communications, instrumentation, and other demanding applications. All types (except single circuit) are polarized. Both male and female pin terminals of the same mating diameters can be intermixed in the same housing. Terminals can be extracted and easily replaced, using ejector tools. Housings are U/L Recognized.



MINIATURE NYLON PLUG HOUSINGS

Accept .062" terminals listed at right.

Stock No.	W/M Number	Ilus. Cir. No. cuts	Amps	W.	Overall H.	1-9	10-99	100-499	500-999	1000
					dia.	Each	Each	per C	per C	per C
12A2557	03-06-2011	1	5	.296"	.578"	\$0.17	\$0.10	6.55	4.55	3.50
12A2558	03-06-2031	3	5	.281"	.578"	.29	.17	11.05	8.15	5.85
12A2559	03-06-2041	4	5	.296"	.734"	.63	.37	24.60	18.30	12.70
12A2560	03-06-2054	5	5	.296"	.875"	.41	.24	16.30	12.10	8.75
12A2561	03-06-2062	6	5	.578"	.453"	.39	.23	15.70	11.40	8.55
12A2562	03-06-2081	8	5	.312"	1.993"	.32	.19	13.35	9.30	7.25
12A2563	03-06-2091	9	5	.578"	.578"	.43	.25	16.90	12.10	9.20
12A2564	03-06-2121	12	5	.578"	.718"	.44	.26	17.60	13.00	9.65
12A2565	03-06-2151	15	5	.593"	.859"	.71	.42	28.60	20.00	15.50
12A2566	03-06-2241	24	5	.750"	.930"	1.05	.63	42.40	29.50	22.85
12A2567	03-06-2361	36	4	.812"	1.640"	1.21	.71	48.00	33.00	25.70

*With integrally molded mounting ears.

MINIATURE NYLON RECEPTACLE HOUSINGS

Accept .062" terminals. With holding tabs and mounting ears.

Stock No.	W/M Number	Ilus. Cir. No. cuts	Amps	W.	Overall H.	1-9	10-99	100-499	500-999	1000
					dia.	Each	Each	per C	per C	per C
12A2568	03-06-1011	1	5	.203"	.484"	.15	.09	5.65	3.90	3.00
12A2569	03-06-1031	3	5	.203"	.484"	.32	.19	12.40	9.15	6.75
12A2570	03-06-1041	4	5	.203"	.625"	.61	.36	24.00	18.30	12.50
12A2571	03-06-1055	5	5	.203"	.781"	.83	.31	21.00	15.35	11.25
12A2572	03-06-1061	6	5	.484"	.343"	.46	.27	18.25	12.85	9.90
12A2573	03-06-1081	8	5	.310"	1.500"	.41	.24	16.40	11.40	8.85
12A2574	03-06-1091	9	5	.531"	.484"	.48	.28	19.30	13.70	10.50
12A2575	03-06-1121	12	5	.531"	.625"	.49	.29	20.20	14.70	11.05
12A2576	03-06-1151	15	5	.531"	.765"	.82	.48	32.60	22.70	17.65
12A2577	03-06-1241	24	5	.750"	.920"	1.12	.66	44.50	30.00	24.00
12A2578	03-06-1361	36	4	.859"	1.515"	1.27	.74	50.10	34.70	26.80

†Holding tabs only. **Integral mounting ears.

STANDARD NYLON PLUG HOUSINGS

Accept .093" terminals, listed at right.

Stock No.	W/M Number	Ilus. Cir. No. cuts	Amps	W.	Overall H.	1-9	10-99	100-499	500-999	1000
					dia.	Each	Each	per C	per C	per C
12A2579	03-09-2011	1	12	.358"	.640"	.17	.10	6.45	4.45	3.45
12A2580	03-09-2021	2	12	.352"	.640"	.32	.19	12.80	9.40	6.50
12A2581	03-09-2031	3	12	.338"	.773"	.27	.16	10.95	7.60	5.85
12A2582	03-09-2041	4	9	.338"	.968"	.39	.23	15.30	10.60	8.15
12A2583	03-09-2052	5	9	.343"	1.171"	.44	.26	17.90	12.55	9.75
12A2584	03-09-2061	6	9	.640"	.531"	.49	.29	19.70	13.10	10.05
12A2585	03-09-2091	9	9	.734"	.765"	.53	.31	21.10	14.60	11.30
12A2586	03-09-2122	12	7.5	.734"	.975"	.54	.32	21.45	14.95	11.60
12A2587	03-09-2152	15	7.5	.734"	1.169"	.82	.49	33.10	22.90	17.70

*With integrally molded mounting ears.

STANDARD NYLON RECEPTACLE HOUSINGS

Accept .093" terminals. With holding tabs and mounting ears.

Stock No.	W/M Number	Ilus. Cir. No. cuts	Amps	W.	Overall H.	1-9	10-99	100-499	500-999	1000
					dia.	Each	Each	per C	per C	per C
12A2588	03-09-1011	1	12	.234"	.531"	.14	.08	5.55	3.85	2.95
12A2589	03-09-1021	2	12	.250"	.531"	.32	.19	12.70	9.45	6.55
12A2590	03-09-1031	3	12	.234"	.671"	.29	.17	11.05	7.65	5.95
12A2591	03-09-1041	4	9	.236"	.875"	.39	.23	15.60	10.80	8.35
12A2592	03-09-1052	5	9	.234"	1.067"	.56	.33	22.70	16.30	12.30
12A2593	03-09-1061	6	9	.632"	.437"	.49	.29	19.60	13.00	9.80
12A2594	03-09-1091	9	9	.625"	.671"	.56	.33	21.90	14.80	11.50
12A2595	03-09-1121	12	7.5	.640"	.870"	.60	.35	24.00	16.70	12.95
12A2596	03-09-1151	15	7.5	.632"	1.067"	.95	.56	37.95	26.00	20.00

†Holding tabs only. **Integral mounting ears.

SOLDERCON IC TERMINALS SOCKET



Waldom/Molex 1938-4 Soldercons give excellent electrical contact and sturdy mechanical support. .010" thick spring tempered tin plated brass. Assembled on break-off carrier strips for easy, precise installation. Height above board, .18" for board punched on .1" centers. Minimum row spacing is .2" Standard package is 50 strips. Wt. 2 to 4 oz. per pkg.

Stock No.	W/M No.	Terminals per strip	Each	Pkg 50	300 up per pkg.
12A2811	05-30-0007	7	\$0.10	\$5.54	\$4.81
12A2812	05-30-0008	8	.11	5.87	6.10
12A2813	05-30-0010	10	.16	7.91	6.88
12A2814	05-30-0012	12	.18	9.49	8.25
12A2815	05-30-0014	14	.22	11.07	9.63

Ask for quotation on 1000 and larger quantity. Available also on continuous length reels (minimum 2000 terminals) on special order. Ask for quotation.

CARRIER STRIP BREAK-OFF TOOLS

12A2816. HT-2369-1. 7-8 Terminals. Each	90¢
12A2817. HT-2369-2. 10-12 Terminals. Each	\$1.15
12A2818. HT-2369-3. 14 Terminals. Each	\$1.25

PIN TERMINALS FOR NYLON HOUSINGS

Spring tempered tin-plated brass. .093" dia. fit standard housings; .062" dia. fit miniature housings. Std. pkg., 100 only.

Stock No.	W/M Number	Config-uration	Mating Dia.	Wire Size	100-900 per C	1000-2,900 per M	3000-5,900 per M	6000-11,900 per M
12A2597	02-06-2103	Male	.062"	18-22	\$4.40	\$37.50	\$26.20	\$18.20
12A2598	02-06-2103	Female	.062"	18-22	4.40	37.50	26.20	18.20
12A2599	02-06-1132	Male	.062"	22-30	4.40	37.50	26.20	18.20
12A2600	02-06-1132	Female	.062"	22-30	4.40	37.50	26.20	18.20

Stock No.	W/M Number	Config-uration	Mating Dia.	Wire Size	100-900 per C	1000-3,900 per M	4000-11,900 per M	12,000 up per M
12A2603	02-09-1103	Female	.093"	14-18	4.00	25.30	18.75	14.65
12A2604	02-09-2103	Male	.093"	14-18	4.00	25.30	18.75	14.65
12A2605	02-09-2118	Male	.093"	18-24	4.00	25.30	18.75	14.65
12A2606	02-09-1118	Female	.093"	18-24	4.00	25.30	18.75	14.65
12A2607	02-09-1143	Female	.093"	22-30	4.00	25.30	18.75	14.65
12A2608	02-09-2143	Male	.093"	22-30	4.00	25.30	18.75	14.65
12A2609	02-09-8110	*Male	.093"	14-34	4.00	25.30	18.75	14.65
12A2610	02-09-7110	*Female	.093"	14-34	4.00	25.30	18.75	14.65

*Solder type, no crimp tool used.

WIRE WRAP PIN TERMINALS pushes through holes in P.C. board to secure connector housing to P.C. board, providing wire wrap terminal on other side of board.

Stock No.	W/M Number	Config-uration	Mating Dia.	100-900 per C	1000-4900 per M	5000-9900 per M	10,000-10,000 up per M
12A2611	02-09-2133	Male	.093"	\$3.10	\$21.45	\$16.50	\$13.25
12A2612	02-09-1133	Female	.093"	3.10	21.45	16.50	13.25

CRIMPING TOOLS

For easy contact insertion. Ejector tool included for pin removal and replacement. HT is hand tool, HTR is production model.

No. 12A2615. W/M No. HT-1921 for .062 Pins. Each	\$5.95
No. 12A2616. W/M No. HT-1919 for .093 pins. Each	\$5.95
No. 12A2617. W/M No. HTR-2262 for .062 and 02-09-1143 and 2143 .093 Pins	\$75.00
Each	\$65.00
No. 12A2618. W/M No. HTR-1031C for other .093 Pins. Each	\$65.00

DE LUXE EXTRACTOR TOOL

To remove pin terminals from nylon housings.

No. 12A2619. W/M No. HT-2285 for .062" Pins. Each	\$6.70
No. 12A2620. W/M No. HT-2038 for .093" Pins. Each	\$6.70

DESIGNER KITS

Everything under one lid, all circuit capacities with male and female housings, terminals, crimping tool and extracting tool. Lightweight, unbreakable snap-lock case. Shpg. wt. 3 lbs.

WM-72 Kit (Pin Terminals .062") has parts for 56 connectors from 1 to 36 circuit designs.

No. 12A2613. Each \$29.95

WM-50 Kit (Pin Terminals .093") has parts for 45 connectors from 1 to 15 circuit designs.

No. 12A2614. Each \$24.95

BINDING POSTS



1. H. H. Smith No. 266. 1/2" dia. bakelite head, B/32 brass threaded insert. Red or Black. 100 Per \$25.00, 500 Per \$22.50, 1000 Per \$20.00. No. 12M619. Each 30c For
2. H. H. Smith No. 386. 5-way connection insulated post of molded Butyrate. 1/2" dia. Mounts in 1/4" hole. 15 amp. 100 Per \$25.00, 500 Per \$22.50, 1000 Per \$20.00. No. 12B742-Black Choice For
3. Millon 37001 HV. Bakelite insulated bushing extends through chassis. Single conductor fully enclosed. 1/2" dia. mtg. hole. No. 12A2334B-Black. Each 64c No. 12A2334R-Red. Each 68c
4. 5-Way Combination Post. Smith No. 269 Dual. Molded black styrene. Mounts in two 1/2" holes, 3/4" centers. 15 amp. rating. No. 12B744. 100 Per \$1.10, 500 Per \$95.00, 1000 Per \$85.50, 1000 Per \$76.00. Each \$1.10 For
5. Eby Binding Post. Ensign No. 38. Non-removable top. 1/2" dia. head 6-32x1/2" L. stem. 1/8" H. Insulated shoulder for centering. Mounts in 1/2" hole. No. 12A1030. 100 Per \$72c, 500 Per \$61.20, 1000 Per \$54.00. Each 72c For
6. Superior DF30 5-Way Binding Posts. Five ways to connect: (1) banana jack in top; (2) clip lead to shaft; (3) wire around shaft and clamp; (4) wire to 12 gauge clamped through center hole; (5) clamped spade lug connection, plus new solder tip on bottom—nylon plastic insulation, all brass parts GOLD-plated. Rating 30 amps 1000 volts. Mounts in panels 1/4" to 1/2" thick. Has 10-32 threaded stem with 2 hex nuts. Overall length 1 1/4", 5/8" dia. Specify color: Red, Black, Green, Yellow, White, or Blue. No. 12M600. Choice Each 50c 100. Each 40c

CINCH JONES BARRIER & TERMINAL STRIPS



JONES BARRIER STRIPS

PRICES BELOW ARE FOR ONE TYPE ONLY—NOT ASSORTED

① SERIES 140. Base $\frac{3}{8}$ " W. x $\frac{1}{2}$ " H. overall, $\frac{1}{4}$ " H. to terminal bottom. $\frac{3}{16}$ " centers. Uses 5-40 x $\frac{3}{16}$ " binder head screws. Avg. shpg. wt. 3 oz.

Stock No.	Terms & Type	Fact. Part No.	1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
12A1526	2-140	353 11 02 001	\$0.24	\$0.20	\$0.17	\$0.14	\$0.13
12A1527	3-140	353 11 03 001	.28	.23	.19	.16	.15
12A1528	4-140	353 11 04 001	.36	.28	.24	.20	.19
12A1529	5-140	353 11 05 001	.44	.35	.29	.25	.24
12A1530	6-140	353 11 06 001	.51	.41	.35	.28	.27
12A1474	7-140	353 11 07 001	.60	.47	.40	.32	.30
12A1531	8-140	353 11 08 001	.68	.55	.45	.36	.35
12A1475	9-140	353 11 09 001	.76	.61	.49	.40	.38
12A1532	10-140	353 11 10 001	.83	.67	.57	.44	.42
12A1476	11-140	353 11 11 001	.89	.72	.61	.47	.45
12A1533	12-140	353 11 12 001	1.00	.79	.66	.51	.49
12A1477	13-140	353 11 13 001	1.06	.84	.71	.58	.53
12A1534	14-140	353 11 14 001	1.14	.91	.77	.62	.59
12A1478	15-140	353 11 15 001	1.22	.99	.81	.65	.63
12A1535	16-140	353 11 16 001	1.29	1.04	.86	.69	.66
12A1479	17-140	353 11 17 001	1.38	1.09	.91	.74	.69
12A1536	18-140	353 11 18 001	1.45	1.16	.98	.77	.74
12A1480	19-140	353 11 19 001	1.52	1.21	1.02	.81	.77
12A1537	20-140	353 11 20 001	1.59	1.28	1.07	.84	.81
12A1481	21-140	353 11 21 001	1.69	1.35	1.12	.88	.84

② SERIES 140-Y. Like above except with thru panel solder lugs.

Stock No.	Terms & Type	Fact. Part No.	1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
12A2264	2-140Y	353 18 02 001	\$0.30	\$0.24	\$0.21	\$0.17	\$0.16
12A2265	3-140Y	353 18 03 001	.37	.30	.25	.23	.21
12A2266	4-140Y	353 18 04 001	.50	.41	.35	.27	.26
12A2267	5-140Y	353 18 05 001	.63	.49	.42	.34	.33
12A2268	6-140Y	353 18 06 001	.77	.62	.50	.41	.37
12A2269	7-140Y	353 18 07 001	.84	.68	.58	.44	.42
12A2270	8-140Y	353 18 08 001	.97	.77	.65	.50	.48
12A2271	9-140Y	353 18 09 001	1.08	.85	.72	.59	.55
12A2272	10-140Y	353 18 10 001	1.19	.97	.80	.64	.61
12A2273	12-140Y	353 18 12 001	1.42	1.12	.96	.76	.71
12A2274	14-140Y	353 18 14 001	1.65	1.32	1.10	.87	.83
12A2275	16-140Y	353 18 16 001	1.86	1.49	1.24	1.00	.96
12A2276	18-140Y	353 18 18 001	2.10	1.68	1.40	1.11	1.06
12A2277	20-140Y	353 18 20 001	2.30	1.85	1.53	1.22	1.17

③ SERIES 141. Base $1\frac{1}{2}$ " W. x $\frac{1}{2}$ " H. overall, $\frac{3}{8}$ " H. to terminal bottom. $\frac{3}{16}$ " centers. Uses 6-32 x $\frac{1}{4}$ " binder head screws. Avg. shpg. wt. 5 oz.

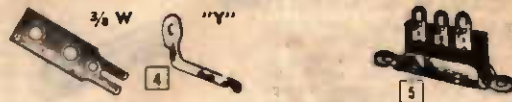
Stock No.	Terms & Type	Fact. Part No.	1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
12A1550	2-141	354 11 02 001	\$0.27	\$0.21	\$0.18	\$0.15	\$0.14
12A1551	3-141	354 11 03 001	.36	.28	.24	.19	.18
12A1552	4-141	354 11 04 001	.47	.38	.32	.26	.25
12A1553	5-141	354 11 05 001	.60	.45	.39	.32	.29
12A1554	6-141	354 11 06 001	.66	.51	.44	.36	.34
12A1453	7-141	354 11 07 001	.78	.63	.51	.41	.39
12A1555	8-141	354 11 08 001	.86	.69	.59	.46	.44
12A1454	9-141	354 11 09 001	.97	.77	.65	.50	.48
12A1556	10-141	354 11 10 001	1.07	.85	.71	.58	.55
12A1557	12-141	354 11 12 001	1.25	1.01	.83	.67	.64
12A1417	14-141	354 11 14 001	1.46	1.16	.98	.78	.74
12A1418	16-141	354 11 16 001	1.65	1.32	1.10	.87	.83
12A1419	18-141	354 11 18 001	1.85	1.48	1.23	.99	.95
12A1420	20-141	354 11 20 001	2.06	1.64	1.38	1.09	1.04

④ SERIES 141-Y. Like above except with thru panel solder lugs.

Stock No.	Terms & Type	Fact. Part No.	1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
12A2250	2-141Y	354 18 02 001	\$0.37	\$0.29	\$0.24	\$0.22	\$0.21
12A2251	3-141Y	354 18 03 001	.51	.41	.35	.27	.26
12A2252	4-141Y	354 18 04 001	.68	.55	.45	.36	.35
12A2253	5-141Y	354 18 05 001	.82	.66	.55	.43	.41
12A2254	6-141Y	354 18 06 001	.96	.78	.64	.49	.47
12A2255	7-141Y	354 18 07 001	1.11	.88	.75	.60	.58
12A2256	8-141Y	354 18 08 001	1.24	1.00	.83	.67	.64
12A2257	9-141Y	354 18 09 001	1.39	1.10	.92	.74	.70
12A2258	10-141Y	354 18 10 001	1.53	1.22	1.03	.82	.78
12A2259	12-141Y	354 18 12 001	1.83	1.46	1.21	.98	.92
12A2260	14-141Y	354 18 14 001	2.13	1.71	1.43	1.13	1.08
12A2261	16-141Y	354 18 16 001	2.44	1.94	1.63	1.29	1.23
12A2262	18-141Y	354 18 18 001	2.73	2.18	1.83	1.46	1.39
12A2263	20-141Y	354 18 20 001	3.03	2.44	2.03	1.63	1.53

⑤ SERIES 142. Base $1\frac{1}{2}$ " W. x $\frac{3}{8}$ " H. overall, $\frac{3}{8}$ " H. to terminal bottom. $\frac{3}{16}$ " centers. Has 8-32 x $\frac{3}{16}$ " binder head screws. Avg. shpg. wt. 6 oz.

Stock No.	Terms & Type	Fact. Part No.	1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
12A1566	2-142	355 11 02 001	\$0.32	\$0.25	\$0.21	\$0.17	\$0.16
12A1567	3-142	355 11 03 001	.43	.34	.28	.23	.22
12A1568	4-142	355 11 04 001	.58	.45	.38	.30	.29
12A1569	5-142	355 11 05 001	.69	.55	.45	.37	.35
12A1570	6-142	355 11 06 001	.81	.65	.55	.43	.41
12A1439	7-142	355 11 07 001	.95	.75	.63	.49	.47
12A1571	8-142	355 11 08 001	1.06	.84	.70	.57	.53
12A1442	9-142	355 11 09 001	1.17	.95	.78	.63	.60
12A1572	10-142	355 11 10 001	1.31	1.08	.86	.69	.66
12A1573	12-142	355 11 12 001	1.54	1.23	1.04	.81	.78
12A1423	14-142	355 11 14 001	1.80	1.44	1.20	.97	.91
12A1425	16-142	355 11 16 001	2.06	1.64	1.38	1.09	1.04



MARKER STRIPS

Used to number terminals for identification. Mounts under terminal strips. TYPE MS 140Y for either 140 or 140-Y barrier strips.

Stock No.	Terms & Type	Fact. Part No.	1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
12A2292	MS2-140Y	363 12 02 011	\$0.15	\$0.12	\$0.10	\$0.09	\$0.08
12A2293	MS3-140Y	363 12 03 011	.15	.12	.10	.09	.08
12A2294	MS4-140Y	363 12 04 011	.15	.12	.10	.09	.08
12A2295	MS5-140Y	363 12 05 011	.17	.13	.11	.10	.09
12A2296	MS6-140Y	363 12 06 011	.17	.13	.11	.10	.09
12A2297	MS7-140Y	363 12 07 011	.17	.13	.11	.10	.09
12A2298	MS8-140Y	363 12 08 011	.17	.13	.11	.10	.09
12A2299	MS9-140Y	363 12 09 011	.17	.13	.11	.10	.09
12A2300	MS10-140Y	363 12 10 011	.19	.15	.13	.11	.10
12A2301	MS12-140Y	363 12 12 011	.19	.15	.13	.11	.10
12A2302	MS14-140Y	363 12 14 011	.21	.17	.14	.12	.11
12A2303	MS16-140Y	363 12 16 011	.23	.19	.16	.13	.12
12A2304	MS18-140Y	363 12 18 011	.23	.19	.16	.13	.12
12A2305	MS20-140Y	363 12 20 011	.26	.20	.17	.14	.13

TYPE MS 141Y. For either 141 or 141-Y barrier strips.

Stock No.	Terms & Type	Fact. Part No.	1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
12A2278	MS2-141Y	364 12 02 011	\$0.15	\$0.12	\$0.10	\$0.09	\$0.08
12A2279	MS3-141Y	364 12 03 011	.17	.13	.11	.10	.09
12A2280	MS4-141Y	364 12 04 011	.17	.13	.11	.10	.09
12A2281	MS5-141Y	364 12 05 011	.17	.13	.11	.10	.09
12A2282	MS6-141Y	364 12 06 011	.17	.13	.11	.10	.09
12A2283	MS7-141Y	364 12 07 011	.19	.15	.13	.11	.10
12A2284	MS8-141Y	364 12 08 011	.19	.15	.13	.11	.10
12A2285	MS9-141Y	364 12 09 011	.19	.15	.13	.11	.10
12A2286	MS10-141Y	364 12 10 011	.21	.17	.14	.12	.11
12A2287	MS12-141Y	364 12 12 011	.23	.19	.16	.13	.12
12A2288	MS14-141Y	364 12 14 011	.26	.20	.17	.14	.13
12A2289	MS16-141Y	364 12 16 011	.27	.22	.18	.15	.14
12A2290	MS18-141Y	364 12 18 011	.27	.22	.18	.15	.14
12A2291	MS20-141Y	364 12 20 011	.29	.23	.20	.18	.15

ADAPTER SOLDER TERMINALS FOR JONES BARRIER STRIPS

"3/4" W lugs for wiring above the chassis. "Y" lugs for wiring below the chassis. AVX. shpg. wt. 3 Oz. per 100. C-J Factory Part No. has 933 suffix on terminals.

Stock No.	Type	Fit Strip	Fact. Part No.	1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
12A1434	$\frac{3}{4}$ W	140	495 11 11 019	\$0.12	\$0.11	\$0.10	\$0.09	\$0.08
12A1435	$\frac{3}{4}$ W	141	495 11 11 022	.12	.11	.10	.09	.08
12A1436	$\frac{3}{4}$ W	142	495 11 11 025	.14	.12	.11	.10	.09
12B1329	Y	140	495 12 11 016	.12	.11	.10	.09	.08
12B1330	Y	141	495 12 11 012	.12	.11	.10	.09	.08
12B1331	Y	142	495 12 11 011	.14	.12	.11	.10	.09

JONES NO. 2000 TERMINAL STRIPS

Terminal .019" brass, tin-plated—all terminals insulated from mounting. Insulation: phenolic, base and mounting brackets: steel, cadmium plated. Terminals spaced on $\frac{3}{16}$ " centers.

Stock No.	Terms & Type	Fact. Part No.	1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
12A1582	2-2002	326 20 02 001	\$0.11	\$0.10	\$0.09	\$0.08	\$0.07
12A1583	3-2003	326 20 03 001	.13	.12	.10	.09	.08
12A1584	4-2004	326 20 04 001	.14	.13	.11	.10	.09
12A1585	5-2005	326 20 05 001	.14	.13	.11	.10	.09
12A1586	6-2006	326 20 06 001	.16	.14	.12	.11	.10
12A1460	7-2007	326 20 07 001	.16	.14	.12	.11	.10
12A1587	8-2008	326 20 08 001	.19	.15	.13	.12	.11
12A1461	9-2009	326 20 09 001	.20	.16	.14	.13	.12

CINCH JONES CONNECTORS



CINCH JONES SERIES 300 CONNECTORS

Small in size with good separation between contacts, black molded phenolic insulation rated at 730 RMS volts. 302 numbers below have $\frac{3}{16}$ " dia. case, all others are rectangular. Plug prongs $\frac{3}{16}$ " wide x $\frac{1}{16}$ " thick.

24 to 33 contact connectors have special long polarizing pin for correct insertion. UL and CSA listed. Average shipping weight 4 ozs.

WHEN ORDERING SPECIFY BOTH B-A STOCK NUMBER AND JONES NUMBER

300 SERIES PLUGS & SOCKETS CABLE TYPE WITH CLAMP

Cont.	Jones No.	Fact. Part No.	① PLUGS—Stk. No. 12M179				
			1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
2	P302CCT	261 31 02 030	\$0.67	\$0.53	\$0.44	\$0.36	\$0.34
3	P303CCT	261 31 03 030	.74	.60	.48	.39	.37
4	P304CCT	261 31 04 030	.78	.63	.51	.41	.39
6	P306CCT	261 31 06 030	.88	.71	.60	.46	.44
8	P308CCT	261 31 08 030	.97	.77	.65	.50	.48
10	P310CCT	261 31 10 030	1.06	.84	.71	.58	.53
12	P312CCT	261 31 12 030	1.14	.92	.77	.62	.59
15	P315CCT	261 31 15 030	1.52	1.22	1.03	.81	.78
18	P318CCT	261 31 18 030	1.79	1.43	1.19	.96	.89
21	P321CCT	261 31 21 030	2.13	1.71	1.43	1.13	1.08
24	P324CCT	261 31 24 030	2.50	2.00	1.68	1.34	1.27
27	P327CCT	261 31 27 030	2.87	2.28	1.90	1.52	1.45
30	P330CCT	261 31 30 030	3.22	2.57	2.15	1.72	1.63
33	P333CCT	261 31 33 030	3.57	2.86	2.38	1.90	1.81

Cont.	Jones No.	Fact. Part No.	② SOCKETS—Stk. No. 12M179				
			1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
2	S302CCT	261 32 02 030	\$0.69	\$0.57	\$0.46	\$0.37	\$0.36
3	S303CCT	261 32 03 030	.76	.61	.49	.40	.38
4	S304CCT	261 32 04 030	.80	.65	.53	.42	.41
6	S306CCT	261 32 06 030	.93	.74	.62	.48	.46
8	S308CCT	261 32 08 030	1.04	.82	.69	.57	.51
10	S310CCT	261 32 10 030	1.17	.95	.78	.63	.60
12	S312CCT	261 32 12 030	1.33	1.06	.87	.70	.67
15	S315CCT	261 32 15 030	1.70	1.37	1.13	.89	.85
18	S318CCT	261 32 18 030	1.92	1.53	1.29	1.03	.98
21	S321CCT	261 32 21 030	2.28	1.83	1.52	1.21	1.16
24	S324CCT	261 32 24 030	2.64	2.12	1.76	1.41	1.34
27	S327CCT	261 32 27 030	2.99	2.40	2.01	1.60	1.51
30	S330CCT	261 32 30 030	3.38	2.71	2.26	1.81	1.72
33	S333CCT	261 32 33 030	3.73	2.98	2.50	2.00	1.89

CHASSIS TYPE WITH ANGLE BRACKETS

Cont.	Jones No.	Fact. Part No.	③ PLUGS — Stk. No. 12M180				
			1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
2	P302AB	261 31 02 010	\$0.33	\$0.26	\$0.23	\$0.19	\$0.18
3	P303AB	261 31 03 010	.37	.29	.25	.21	.20
4	P304AB	261 31 04 010	.41	.33	.28	.23	.22
6	P306AB	261 31 06 010	.50	.41	.35	.27	.26
8	P308AB	261 31 08 010	.59	.46	.39	.32	.30
10	P310AB	261 31 10 010	.66	.51	.44	.36	.34
12	P312AB	261 31 12 010	.74	.60	.48	.39	.37
15	P315AB	261 31 15 010	1.00	.79	.66	.51	.49
18	P318AB	261 31 18 010	1.19	.96	.79	.64	.61
21	P321AB	261 31 21 010	1.49	1.19	1.00	.79	.76
24	P324AB	261 31 24 010	1.81	1.45	1.20	.97	.92
27	P327AB	261 31 27 010	2.12	1.70	1.42	1.12	1.07
30	P330AB	261 31 30 010	2.44	1.93	1.61	1.30	1.22
33	P333AB	261 31 33 010	2.73	2.18	1.82	1.45	1.39

CHASSIS TYPE WITH FLUSH PLATE MOUNTING

Cont.	Jones No.	Fact. Part No.	④ SOCKETS — Stk. No. 12M180				
			1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
2	S302AB	261 32 02 010	\$0.35	\$0.28	\$0.24	\$0.20	\$0.19
3	S303AB	261 32 03 010	.39	.32	.26	.22	.21
4	S304AB	261 32 04 010	.43	.35	.29	.24	.23
6	S306AB	261 32 06 010	.56	.43	.37	.29	.28
8	S308AB	261 32 08 010	.66	.52	.44	.36	.34
10	S310AB	261 32 10 010	.77	.62	.51	.41	.38
12	S312AB	261 32 12 010	.92	.72	.62	.48	.45
15	S315AB	261 32 15 010	1.16	.93	.77	.62	.59
18	S318AB	261 32 18 010	1.33	1.06	.88	.71	.67
21	S321AB	261 32 21 010	1.64	1.32	1.09	.86	.83
24	S324AB	261 32 24 010	1.94	1.55	1.31	1.03	1.00
27	S327AB	261 32 27 010	2.26	1.81	1.50	1.20	1.14
30	S330AB	261 32 30 010	2.59	2.08	1.73	1.39	1.32
33	S333AB	261 32 33 010	2.90	2.31	1.92	1.53	1.47

SERIES 202 PLUGS AND SOCKETS

Polarized, nickel plated two-conductors, ideal for mike and speaker connections. Knurled nut screws on to matching unit for positive locking connection. P202CCT mates with S202CCT-THR and S202B. S202CCT mates with P202B.

Fig. No.	Jones No.	Fact. Part No.	⑤ PLUGS — Stk. No. 12M181				
			1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
(1) P202CCT		265 35 02 126	\$1.20	\$0.95	\$0.81	\$0.64	\$0.60
(2) S202CCT		265 36 02 129	1.23	.97	.82	.65	.61
(3) S202CCT-THR		265 36 02 131	1.61	1.30	1.08	.85	.83
(4) S202B		265 36 02 132	1.46	1.17	.97	.78	.74
(5) P202B (MALE)		265 35 02 125	1.53	1.26	1.06	.84	.72

CINCH BROW TERMINAL STRIPS WITH SOLDER LUGS

Solder coated brass terminals, .136" dia. mtg. holes. Strips with 1 to 6 lugs are of $\frac{1}{16}$ " phenolic; 7 to 10 terminals mounted on $\frac{3}{16}$ " phenolic. Ends of screws captivated to prevent removal. Terminals spaced on $\frac{1}{8}$ " centers. Avg. shpg. wt. 1 oz.

Stock No.	Type & Lugs	Fact. Part No.	Mtg. Ctrs.	⑥ CHASSIS TYPE SOCKET WITH BRACKET—12M177				
				1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
12A1509	17-1	321 11 01 003	$\frac{1}{8}$ "	\$0.11	\$0.09	\$0.08	\$0.069	\$0.058
12A1510	17-2	321 11 02 013	$\frac{1}{8}$ "	.12	.11	.09	.081	.069
12A1511	17-3	321 11 03 011	$\frac{1}{8}$ "	.14	.12	.11	.092	.081
12A1512	17-4	321 11 04 005	$\frac{1}{8}$ "	.19	.15	.13	.116	.105
12A1513	17-5	321 11 05 003	$\frac{1}{8}$ "	.21	.16	.14	.128	.116
12A1514	17-6	321 11 06 001	$\frac{1}{8}$ "	.25	.21	.17	.151	.139
12A1515	17-7	321 11 07 001	$\frac{1}{8}$ "	.31	.24	.21	.174	.162
12A1516	17-8	321 11 08 001	$\frac{1}{8}$ "	.32	.26	.22	.185	.174
12A1517	17-9	321 11 09 001	$\frac{1}{8}$ "	.40	.30	.25	.208	.197
12A1518	17-10	321 11 10 001	$\frac{1}{8}$ "	.42	.32	.28	.220	.208

CABLE TYPE WITH CLAMP-LOCKING

Cont.	Jones No.	Fact. Part No.	⑦ PLUGS WITH LATCH—No. 12M183				
			1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
2	P302CCT-L	261 31 02 032	\$0.83	\$0.67	\$0.57	\$0.44	\$0.42
3	P303CCT-L	261 31 03 032	.89	.72	.61	.47	.45
4	P304CCT-L	261 31 04 032	.96	.76	.64	.49	.47
6	P306CCT-L	261 31 06 032	1.06	.84	.70	.57	.53
8	P308CCT-L	261 31 08 032	1.12	.89	.76	.61	.58
10	P310CCT-L	261 31 10 032	1.22	.99	.82	.66	.63
12	P312CCT-L	261 31 12 032	1.32	1.05	.87	.70	.67

⑧ SOCKETS WITH KEENER — No. 12M183

Cont.	Jones No.	Fact. Part No.	⑧ SOCKETS WITH KEENER — No. 12M183				
			1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
2	S302CCT-K	261 32 02 033	\$0.85	\$0.69	\$0.59	\$0.45	\$0.43
3	S303CCT-K	261 32 03 033	.93	.74	.62	.48	.46
4	S304CCT-K	261 32 04 033	.98	.78	.65	.50	.48
6	S306CCT-K	261 32 06 033	1.09	.86	.72	.59	.56
8	S308CCT-K	261 32 08 033	1.20	.97	.80	.65	.62
10	S310CCT-K	261 32 10 033	1.34	1.07	.88	.71	.68
12	S312CCT-K	261 32 12 033	1.49	1.19	1.00	.79	.76

CHASSIS TYPE WITH FLUSH PLATE MOUNTING

Cont.	Jones No.	Fact. Part No.	⑨ PLUGS — Stk. No. 12M199				
			1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
2	P302-FP	261 31 02 014	\$0.56	\$0.43	\$0.37	\$0.29	\$0.28
3	P303-FP	261 31 03 014	.59	.46	.39	.32	.29
4	P304-FP	261 31 04 014	.63	.48	.41	.34	.32
6	P306-FP	261 31 06 014	.72	.59	.47	.38	.37
8	P308-FP	261 31 08 014	.79	.64	.53	.42	.40
10	P310-FP	261 31 10 014	.86	.69	.59	.46	.44
12	P312-FP	261 31 12 014	.96	.76	.64	.49	.47

⑩ SOCKETS — Stk. No. 12M199

Cont.	Jones No.	Fact. Part No.	⑩ SOCKETS — Stk. No. 12M199				
			1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
2	S302-FP	261 32 02 014	\$0.58	\$0.45	\$0.38	\$0.30	\$0.28
3	S303-FP	261 32 03 014	.60	.47	.40	.32	.30
4	S304-FP	261 32 04 014	.65	.50	.43	.35	.33
6	S306-FP	261 32 06 014	.76	.61	.49	.40	.38
8	S308-FP	261 32 08 014	.86	.69	.59	.46	.44
10	S310-FP	261 32 10 014	.99	.78	.66	.51	.49
12	S312-FP	261 32 12 014	1.11	.88	.75	.61	.58

⑪ CHASSIS TYPE SOCKET — Stk. No. 12M182 With Deep Bracket

Cont.	Jones No.	Fact. Part No.	⑪ CHASSIS TYPE SOCKET — Stk. No. 12M182 With Deep Bracket				
			1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
2	S302DB	261 32 02 013	\$0.82	\$0.66	\$0.57	\$0.44	\$0.42
3	S303DB	261 32 03 013	.82	.66	.57	.44	.42
4	S304DB	261 32 04 013	.87	.70	.60	.46	.44
6	S306DB	261 32 06 013	1.00	.79	.66	.51	.49
8	S308DB	261 32 08 013	1.10	.87	.74	.60	.56
12	S312DB	261 32 12 013	1.37	1.08	.92	.72	.69

SERIES 400 CONNECTORS



400 Series. Heavy duty polarized connectors for high power applications. Rated 1200 RMS volts at 15 amps. Cadmium plated brass. Plug prongs are $\frac{1}{16}$ " wide and $\frac{1}{16}$ " thick. CCT rectangular caps are black wrinkle with fibre lining. Average shpg. wt. 6 ozs. Specify B-A Stock No. and Jones No. when ordering.

Cont.	Jones No.	Fact. Part No.	⑫ CABLE TYPE PLUG WITH CLAMP—No. 12M176				
			1-24 Each	25-49 Each	50-99 Each	100-249 Each	250-499 Each
2	P402CCT	262 11 02 030	1.35	1.08	.89	.71	.68
4	P404CCT	262 11 04 030	1.53	1.23	1.03	.82	.78
6	P406CCT	262 11 06 030	1.76	1.41	1.18	.95	.89

TUBE SOCKETS, SHIELDS & ACCESSORIES

AMPHENOL SOCKETS AND MOUNTS



Quality engineered sockets for every need. MIP, RS and S type are black phenolic, RSS is steelite. MIP type has molded-in steel mounting plate. Avg. shp. wt. 1 oz.

Fig.	Stock No.	Amphenol Number	Pins	Mtg. Hole	1-49	50-99	100-249	250-999	1000 Up
①	12A93	77MIP4	4	1 3/8"	\$0.242	\$0.203	\$0.181	\$0.14	\$0.125
②	12A94	77MIP5	5	1 3/8"	.265	.222	.20	.154	.137
③	12A95	77MIP6	6	1 3/8"	.29	.243	.218	.169	.181
④	12A96	77MIP7S	7S	1 3/8"	.314	.263	.234	.181	.162
⑤	12A96	77MIP8	8	1 3/8"	.262	.22	.195	.152	.136
⑥	12A1440	77MIP9	9	1 3/8"	.302	.252	.226	.175	.156
⑦	12A1441	77MIP11	11	1 3/8"	.31	.26	.232	.18	.160
⑧	12B166	77MIP12	12	1 3/8"	.36	.30	.269	.208	.185
⑨	12A100	88-8	8	1 1/2"	.292	.244	.22	.170	.150
⑩	12A101	88-8X	Loct.	1 1/2"	.438	.366	.33	.254	.226
⑪	12A110	78-RSS	8	1 1/4"	.335	.28	.25	.194	.173
⑫	12A112	49-RSS4	4	1 1/4"	.95	.796	.713	.552	.493
⑬	12A116	49-RSS7L	7L	1 1/4"	1.84	1.54	1.38	1.07	.956
⑭	12A117	49-RSS8	8	1 1/4"	1.05	.874	.782	.605	.541
⑮	12A54	78-S8	8	1 3/4"	.25	.210	.188	.144	.130
⑯	12A57	78-S11	11	1 3/4"	.327	.274	.235	.19	.169

"S" SOCKET MOUNTINGS. Fns "S" type sockets. CP Plugs and 61M and 61F AC connectors. Steel mtg. plate has slotted holes with 1-1/2" to 1-7/8" centers. Above surface mount Type 23-1S raises socket 13/16" above surface, 1-3/4" dia. Below surface mount Type 61-61 extends 1-3/16" below surface. Mounts in 1-7/16" hole on 1-3/4" centers.

Fig.	Stock No.	Description	1-49	50-99	100-249	250-999	1000 Up
①	12A66	Mounting Plate	\$0.08	\$0.05	\$0.04	\$0.038	\$0.036
②	12A67	Above Surface Shell	.26	.22	.195	.155	.14
③	12A70	Below Surface Shell	.14	.12	.11	.10	.08

AMPHENOL INDUSTRIAL SOCKETS



① 11-Contact Industrial Relay Socket. High, thick insulating barriers between contacts provide long creepage paths. Rated 600 volts RMS at 10 amps, reversible screw terminals with 4 threaded brass insert tie points. Shpg. wt. 8 oz.

No. 12C152. Amphenol 146-817.
1-49 Each \$3.53 50-99 Each \$2.95
100-249 Each \$2.65 250-999 Each \$2.05 1000 Up Each \$1.83

② Octal Industrial Socket for relays or high-power tubes. Molded melamine base, reversible screw terminals. Rated 1250 RMS volts at 5 amp. Wt. 5 ozs.
Stk. No. Type Description Stk. No. Type Description
12C153 146-103 Top Mtg. No Tie Points 12C154 146-104 Top Mtg. 4 Tie Points
12C155 146-203 Bottom Mtg. No Tie Points 12C156 146-204 Bottom Mtg. 4 Tie Points
Choice EA. 1-49 \$1.84 50-99 \$1.45 Choice EA. 1-49 \$2.04 50-99 \$1.71
100-249 \$1.27 250-999 94c 1000 Up 86c 100-249 \$1.53 250-999 \$1.18 1000 \$1.06

POMDA ELECTRONICS SURFACE MOUNTED BREADBOARD SOCKETS

For experimental circuit design. Insulated base prevents shorts. Connections are numbered on base for easy identification.

Pins	Stk. No.	Type	1-49 Ea.	50-99 Ea.	100-249 Ea.
7-Min	12A5040	XS-7	\$0.75	\$0.68	\$0.64
Octal	12A5041	XS-8	.95	.86	.81
9-Min	12A5042	XS-9	.85	.77	.72



CINCH AC SOCKET



Fits standard AC plugs. UL listed. Rated 15 A., 110 V. Mounts in 3/8" x 3/8" hole. Mounting centers 1 1/4". Type 2R2.
No. 12A899. 1-24 Ea. \$2.2c 25-49 .18c 50-99 .16c
100-249 .14c 250-499 .13c



AMPHENOL AC CONNECTORS

Molded of high dielectric black bakelite, UL listed, rated 15 amps at 110 volts. Fig. ① mounts in 1-3/16" hole on 1-1/2" mtg. centers. Fig. ② and ③ snap mount in 1-3/16" hole. Includes mounting ring. Avg. shpg. wt. 1 oz.

Fig.	Stk. No.	Type	1-49 Ea.	50-99	100-249	250-499	500-999	1000 U
①	12A354	61-MIP-61F	.45	.39	.34	.30	.27	.25
②	12A121	61-M	.46	.39	.34	.30	.27	.26
③	12A122	61-F	.42	.36	.31	.27	.25	.23

AMPHENOL POLARIZED AC CONNECTORS



UL listed for home appliances and power tools. Third prong grounded. Made of Type 6 Nylon, contacts and ground prong are copper alloy. Caps are cad. plated steel, mounting plate is nickel plated steel. Rated at 15 amp, 125 V. Type 160-2 receptacle mounts in 1 1/2" hole, has 1 1/2" mtg. centers. Cable type are 1 1/2" long with cable clamp, less prongs. Avg. shpg. wt. 2 ozs.

Fig	Stk. No.	Type	1-49	50-99	100-249	250-499	500-999	1000
①	12A2495	160-2N MIP Recept.	\$1.02	\$0.88	\$0.76	\$0.67	\$0.61	\$0.57
②	12A2496	160-3N MIP Plug	1.41	1.21	1.06	.92	.84	.79
③	12A2497	160-9N Plug	1.43	1.22	1.06	.93	.84	.80
④	12A2498	160-8N Socket	1.14	.98	.86	.75	.68	.64

CINCH-JONES SOCKETS AND SHIELDS



7-PIN MINIATURE SOCKETS

Unshielded types are bottom mount. Shielded types are top mount. Both mount in 3/8" hole with 3/8" mtg. center. Letters in Type numbers indicate body material: "B"—Bakelite, "M"—Mica, "C"—Ceramic.

Fig.	Stk. No.	Type	Fact. No.	1-24	25-49	50-99	100-249	250-499
①	12A5007	7EB	111 11 00 011	\$0.13	\$0.11	\$0.10	\$0.088	\$0.078
②	12A5008	7EM	111 11 10 012	.15	.12	.11	.10	.088
③	12A5009	7XB1	111 31 00 012	.20	.15	.13	.12	.11
④	12A5010	7XM1	111 31 10 012	.23	.19	.16	.14	.13
⑤	12A5011	7XC	111 30 20 012	.48	.39	.34	.25	.24

TUBE SHIELD FOR 7-PIN MINIATURE SOCKETS

Durable steel shields with "J-Slot" for locking on to base. Tube holding spring in top. Stk. No. Type Fact. No. Size 1-24 25-49 50-99 100-249 250-499

12A5026	7S3	150 11 23 012	1 3/4" L.	\$0.25	\$0.19	\$0.15	\$0.14	\$0.13
12A5046	7S4	150 11 33 013	2 1/4" L.	.34	.28	.24	.19	.17

9-PIN MINIATURE SOCKETS

Unshielded type are bottom mount, shielded type are top-mount. Mounts in 3/8" hole with 1 1/4" mtg. center: "B"—Bakelite, "M"—Mica, "C"—Ceramic.

Fig.	Stk. No.	Type	Fact. No.	1-24	25-49	50-99	100-249	250-499
①	12A5012	9EB	121 11 00 016	\$0.15	\$0.12	\$0.11	\$0.10	\$0.088
②	12A5013	9EM	121 11 10 015	.19	.14	.13	.12	.11
③	12A5014	9XB	121 31 00 015	.23	.19	.16	.14	.13
④	12A5015	9XM	121 31 10 012	.25	.21	.17	.15	.14
⑤	12A5016	9XC	121 31 20 018	.39	.30	.25	.21	.20

TUBE SHIELD FOR 9-PIN MINIATURE SOCKETS

Durable steel shields with "J-Slot" for locking on to base. Tube holding spring in top. Stk. No. Type Fact. No. Size 1-24 25-49 50-99 100-249 250-499

12A5027	9S2	151 11 23 012	1 3/4" L.	\$0.31	\$0.25	\$0.21	\$0.17	\$0.15
12A5047	9S3	151 11 33 013	2 1/4" L.	.58	.47	.40	.31	.29

NUVISTOR, NOVAR & COMPACTRON SOCKETS



① 5-Pin Nuvistor Socket with steel saddle mount. Top mounting. No. 12A5018. Cinch Type 5NS-1. Fact. No. 133 65 10 003. Each .30c 25 Each .23c 50 Each .19c 100 Each .161 250 Each .15c
② 5-Pin Nuvistor Socket of low loss phenolic with crimp tab mount for snap-in PC mounting. No. 12A5017. Cinch Type 5NS. Fact. No. 133 65 10 001. Each .19c 25 Each .15c 50 Each .13c 100 Each .118 250 Each .107
③ 7-Pin Nuvistor Socket of general purpose bakelite. Saddle mounting type. No. 12A5043. Eby Type NU-7. Each .99' 10 Each .89' 100 Each .80.792
④ 9-Pin Nuvistor Socket. Phenolic with bottom mount saddle. No. 12A5019. Eby Type 9369. Each .20c 10 Each .18' 100 Each .158
⑤ 12-Pin Compactron Socket. Phenolic, bottom mount saddle. No. 12A5020. Eby Type 9371. Each .30c 10 Each .27c 100 Each .243

CINCH WAFER TYPE SOCKETS

Laminated sockets made of high grade XP bakelite. Wafer is 3/8" thick with solder coated brass contacts. 7 and 9 pin sockets have center shield.



Stk. No.	Type	Fact. No.	Mtg. Centers	1-24	25-49	50-99	100-249	250-499
12B406	7WL2	112 22 00 022	1 1/4" 3/8"	.13	.12	.11	.10	.09
12B405	7W2A	112 12 00 016	7/8" 3/8"	\$0.15	\$0.13	\$0.12	\$0.11	\$0.10
12B408	9W1	122 12 00 017	1 1/4" 3/8"	.19	.14	.13	.12	.11
12B411	48-1-E	1 1/2" 1"	.18	.16	.15	.14	.13	

CINCH PRINTED CIRCUIT 7 AND 9 PIN BAKELITE SOCKETS

Stock No.	Fact. No.	Cinch Type	1-24	25-49	50-99	100-249	250-499
12A5035	111 51 00 015	7PC-B	\$0.13	\$0.11	\$0.10	\$0.09	\$0.08
12A5034	121 51 00 011	9PC-B	.15	.12	.11	.10	.088

JOHNSON TRANSMITTING TUBE SOCKETS



Bayonet types have porcelain bases, glazed top and sides, cad. plated phosphor bronze contacts, nickel plated hardware, etched aluminum bayonet shells. Wafer types have glazed-steelite base and plated brass contacts with steel reinforcing springs.

Stk. No.	Johnson No.	Description	EIA Base	Fits Tube Types	Net Ea.	
①	12A174	123-209-1	4 P. Med Bayonet	A4-10	866A, 811A	\$2.55
②	12A175	123-211-1	4 P. Jumbo Bayonet	A4-29	203A, 810, 872A, 250TH	3.30
③	12A571	122-275-1	5 P. Giant Wafer	A6-19	4-125A, 4-250A, RK48	3.25
④	12A173	122-237-1	7 P. Cinch Wafer	A7-17	4E27, 813, HK257	2.10
⑤	12A5044	124-109-1	Kei-F Plastic		4X150A, 4X250B	6.60
⑥	12A5045	124-111-1	Steelite Air Chimney for 124-109-1			.95

PLUGS, JACKS AND CONNECTORS

AMPHENOL MICROPHONE AND SHIELDED CABLE CONNECTORS



Standard single contact pressure type connectors with 5/16-27 male or female thread as illustrated. Made of brass, chrome plated. Type 75-MC1F has a removable coupling ring (see inset) and will mate with both male and female fittings. Shpg. wt. 1 oz. *Made by Switchcraft.

Stk. No.	Type	Description	Prices Each					
			1-49	50-99	100-249	250-499	500-1000	
12A311	75-MC1F	Univ. Male or Female	\$0.70	\$0.60	\$0.53	\$0.46	\$0.42	\$0.40
12A317	75-MC1F-A	Female, Angle	1.48	1.27	1.11	.97	.88	.83
12A313	75-PC1M	Male, Chassis	.48	.42	.36	.32	.29	.27
12A318	75-MC1P	1/4" Adapter	.68	.58	.51	.45	.40	.38
12A319	75-CC01	Dust Cover for Types 75, 80	.47	.40	.35	.31	.28	.26

12A307 25Y* Y Connector		Prices Each				
1-49	50-99	100-249	250-499	500-999	1000 Up	
\$1.68	\$1.44	\$1.32	\$1.20	\$0.96		

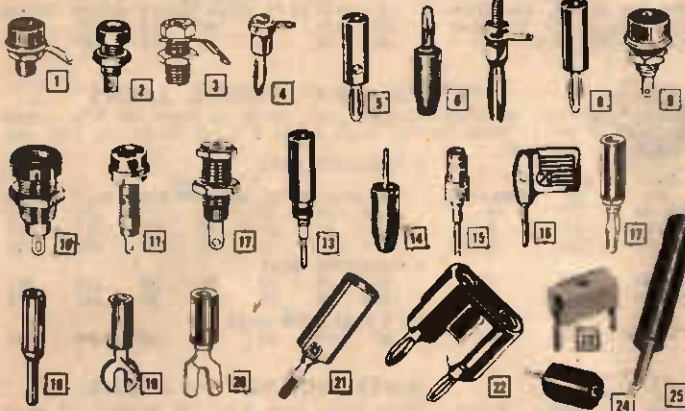
AMPHENOL MIKE SWITCH



Male on end, female on other, mates with all standard 5/16-27 single contact connectors. Push-to-talk or slide switch for positive contact. Shorts across circuit in "OFF" position. Wt. 2 ozs. No. 12A316. Type 75-MC1S

Prices Each	1-49	50-99	100-249	250-499	500-999	1000 Up
	\$2.49	\$2.14	\$1.87	\$1.63	\$1.48	\$1.40

BANANA & PHONE TIP PLUGS & JACKS



MANUFACTURERS ABBREVIATIONS USED BELOW: HS for Herman H. Smith, EJ for E. F. Johnson. Shpg. wt. 2 oz. DESCRIPTIVE ABBREVIATIONS: BP for banana plug, BJ for banana jack, TP for tip plug, TJ for tip jack, and I for insulated. All jacks will mount in panels up to 3/8" thick except HS240 (to 1/2") and HS206 (to 5/8"). HS stocked in Red, Black, Green and Yellow, EJ stocked in Red, Black, Green, Yellow and White. Please specify both B-A Stock Number and Color. Average shipping wt. 12 oz. per 100.

Illus. Fig.	Stock No.	Mfg. Type	Mfg. Hole	Overall Lgth.	Description	1-99 Each	100-499 Each	500-999 Each
1	12M1048	HS205	3/8"	2 1/2"	BJ, Insulated head.....	\$0.18	\$0.15	\$0.135
2	12M681	EJ108	3/8"	1 3/4"	BJ, I Nylon, 900 Series.....	.13	.11	.10
3	12A1047	HS109	3/8"	3/4"	BJ, Brass Nickel Plated.....	.18	.15	.135
4	12A1046	HS100	1/4"	3/4"	BP Bronze N.P., 6/32 screw.....	.30	.25	.225
5	12M1042	HS204	1 1/8"	1 1/2"	BP, I Solderless screw.....	.30	.25	.225
6	12M682	EJ108	1 3/8"	1 3/4"	BP, I Nylon, 300 Series.....	.25	.21	.19
7	12A1044	HS103	1 1/8"	1 1/2"	BP, Brass N.P. 6/32" thrd.....	.30	.25	.225
8	12M901	HS211	1 3/8"	1 3/4"	BP, I solder or solderless.....	.30	.25	.225
9	12M1058	HS202	3/8"	1 3/4"	TJ, I Ph. Bronze contact.....	.18	.15	.135
10	12M900	HS240	3/8"	1 3/4"	TJ, I Nylon, 4000 V. AC.....	.24	.20	.180
11	12M684	EJ105	1 1/8"	1 1/2"	TJ, I Nylon, 800 Series.....	.14	.12	.104
12	12M1049	HS206	1 1/8"	1 1/2"	TJ & BJ, Comb. Insulated.....	.24	.20	.180
13	12A1057	HS107	1 1/8"	1 1/2"	TJ, Brass Nickel Plated.....	.18	.15	.135
14	12M1050	HS200	2 1/4"	2 1/2"	TP, I Solderless Type.....	.20	.17	.153
15	12M719	EJ105	1 1/8"	1 1/2"	TP, I Nylon, 300 Series.....	.20	.16	.16
16	12A1052	HS105	1 1/8"	1 1/2"	TP, Brass N.P. Solderless.....	.18	.15	.135
17	12M1055	HS235	1 1/8"	1 1/2"	TP, I. Meter, Red or Black.....	.36	.30	.270
18	12M905	HS295	1 1/8"	1 1/2"	BP, Ins. Solderless.....	.36	.30	.270
19	12A1085	HS158	1 1/8"	1 1/2"	Standard Phone Tip N.P. Brass.....	.04	.03	.025
20	12M909	HS400	1 1/8"	1 1/2"	Solder Type Red or Black.....	.16	.13	.117
21	12M915	HS218	1 1/8"	1 1/2"	Banana Plug-In Red or Black.....	.17	.14	.13
22	12M997	HS324	1 3/8"	1 3/4"	BP, I Solderless, Stack, Red or Black (Half of HS210 Below).....	.58	.48	.432
23	12M996	HS210	1 3/8"	1 3/4"	Dbl. BP, Solderless, will Stack BP's Red or Black.....	.86	.72	.648
PRINTED CIRCUIT CONNECTORS								
24	12M6077	EJ105	4/10"	Hor. Jack 750 Series.....	.10	.08	.068	
25	12M6078	EJ105	.052, 3/8"	Vert. Jack 850 Series.....	.12	.10	.109	
26	12M6078	EJ105	7/8"	TP 770 Series.....	.23	.20	.178	

RCA TYPE PHONO CONNECTORS



Fig.	Stk. No.	Description	Each	10 Ea.	100 Up
1	12A1087	Phono Plug	6c	4c	\$0.036
2	12A1088	Phono Jack	7c	5c	.042
3	12A676	Double Jack	.19	.15	.13
4	12A543	Easy Grip Plug	.22	.18	.15

FOR MORE PHONO PLUGS AND JACKS SEE PAGE 150



Equipped with threaded coupling ring to prevent accidental disconnection. Brass chrome-plated. 2 and 3 contact cable connector has 3/8" spring core protector, 4-contact has 3/8". Type 91-C chassis connector mounts in 3/8" hole. Type 91-C mounts in 1/2" hole. Shpg. wt. 1 oz.

Fig.	Stk. No.	Type	Cont.	Description	Prices Each					
					1-49	50-99	100-249	250-499	500-999	1000 Up
1	12A320	80MC2M	2	Male, Cable	\$0.80	\$0.68	\$0.60	\$0.52	\$0.47	\$0.45
2	12A321	80MC2F	2	Female, Cable	.85	.73	.64	.56	.50	.48
3	12A323	80PC2F	2	Female, Chassis	.68	.58	.51	.44	.40	.38
4	12A324	91-MC3M	3	Male, Cable	1.11	.95	.83	.73	.66	.62
5	12A326	91-MC4M	4	Male, Cable	1.16	.99	.87	.76	.69	.65
6	12A325	91-MC3F	3	Female, Cable	1.13	.97	.85	.74	.67	.64
7	12A327	91-MC4F	4	Female, Cable	1.17	1.00	.88	.77	.69	.66
8	12A329	91-PC3F	3	Female, Chassis	.80	.69	.60	.52	.47	.45
9	12A331	91-PC4F	4	Female, Chassis	.76	.66	.57	.50	.45	.43
10	12A332	91-CC03		Dust Cover for 91	.50	.43	.38	.33	.30	.28

AMPHENOL MINIATURE CONNECTORS



Any plug in this group mates with any socket with same number of pins. 78 series mount in 5/8" hole with push-on spring ring. Can be chassis mounted or wired to cable. 7-pin sockets fit 7-pin miniature tubes. Avg. shpg. wt. 5 ozs. per 20. Fig. 1 and 2 are 3/8" dia., 1 1/2" long cadmium plated brass. Fig. 3 is shielded chassis socket. Avg. shpg. wt. 1/2 ozs.

Fig.	Stk. No.	Type	Pins	Prices Each					
				1-49	50-99	100-249	250-499	500-999	1000
1	12A140	78-S3S	3	\$0.15	\$0.12	\$0.11	\$0.09	\$0.08	\$0.08
2	12A141	78-S4S	4	.22	.19	.17	.13	.13	.12
3	12A125	78-S5S	5	.23	.20	.18	.14	.14	.12
4	12A118	78-S6S	6	.24	.20	.18	.14	.14	.12
5	12A123	78-7P	7	.42	.35	.32	.25	.25	.22
6	12A138	86-CP3S	3	.22	.18	.16	.13	.13	.11
7	12A139	86-CP4S	4	.22	.19	.17	.13	.13	.11
8	12B171	71-5S	5	.20	.17	.15	.12	.12	.11
9	12B172	71-6S	6	.24	.20	.18	.14	.14	.12
10	12A148	91-MPF3L	3	.51	.44	.38	.34	.30	.29
11	12A149	91-MPF4L	4	.47	.41	.35	.31	.28	.27
12	12A142	91-MPM3L	3	.42	.36	.32	.28	.25	.24
13	12A143	91-MPM4L	4	.47	.41	.35	.31	.28	.27
14	12B22	91-MPSL	5	.49	.42	.36	.32	.29	.27
15	12B23	91-MPM6L	6	.48	.41	.36	.31	.28	.27
16	12A150	78-PCG3	3	.50	.41	.37	.29	.29	.26
17	12A151	78-PCG4	4	.59	.50	.44	.34	.34	.31
18	12B24	78-PCG5	5	.62	.52	.47	.36	.36	.32
19	12B25	78-PCG6	6	.63	.53	.47	.37	.37	.33



"CP" plugs made of black bakelite, for chassis mounting, fits 1 1/2" hole. PM and PF connectors are molded black bakelite with steel shell. Rubber grommet in hole. Avg. shpg. wt. 1 oz.

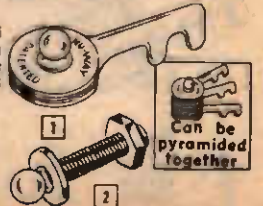
Fig.	Stk. No.	Type	Pins	Prices Each				
				1-49	50-99	100-249	250-999	1000
1	12A58	86-CP4	4	\$0.30	\$0.25	\$0.22	\$0.17	\$0.15
2	12A59	96-CP5	5	.30	.25	.22	.17	.15
3	12A63	86-CP8	8	.32	.27	.24	.19	.17
4	12A2553	86-CP9	9	.33	.28	.25	.193	.17
5	12A2552	86-CP11	11	.34	.28	.25	.200	.174
6	12A80	78-PF4	4	.50	.43	.38	.30	.26
7	12A81	78-PF5	5	.51	.45	.39	.31	.27
8	12A82	78-PF6	6	.54	.47	.41	.32	.29
9	12A83	78-PF7S	7S	.56	.49	.43	.33	.30
10	12A85	78-PF8	8	.50	.43	.38	.30	.27
11	12A86	78-PF9	9	.53	.46	.41	.32	.28
12	12A87	78-PF11	11	.58	.50	.43	.34	.31
13	12A72	86-PMA	4	.55	.47	.42	.32	.29
14	12A73	86-PM5	5	.55	.47	.42	.33	.29
15	12A74	86-PM6	6	.57	.49	.43	.34	.30
16	12A75	86-PM7S	7S	.58	.50	.44	.34	.30
17	12A77	86-PM8	8	.57	.49	.44	.34	.30
18	12A78	86-PM9	9	.58	.50	.44	.35	.31
19	12A79	86-PM11	11	.59	.51	.45	.35	.31
No. 12A91, 79CC4 Cable Clamp for PF and PM (not shown).				.09	.074	.066	.052	.052

NU-WAY SNAP CONNECTORS

For Permanent or Temporary Circuits

Permits quick simple connection of wires. Nickel plated brass. Terminals snap together making positive contact. Any number of snaps can be pyramided together for multiple connections (as shown at right). Shpg. wt. 2 oz.

1	Snaps— Snaps together or to studs below. With crimp-on solder lug.	12A642, Eo. 15c 100 For. \$8.50	1M For. \$71.25
2	Studs— Use with snaps above. Mounts in chassis or panel. Size 6-32 x 1/2" long.	12A643, Eo. 14c 100 For. \$6.75	1M For. \$52.38



"LITTEL PLUG" PHONE PLUGS



Fits standard 1/4" phone jack, except Nos. S-250, S-260 and S-280 which have a .206" dia. sleeve for .210 jacks. No's. C-240, C-245 and C-270 have cable clamp. Shielded handles are nickel plated brass; others are molded plastic; 1 1/2" long, 1/2" dia. *Screw terminals, others solder terminals. Shpg. wt. 2 ozs.

2 CONDUCTOR TYPES

Fig.	Stk. No.	Mfg. No.	Handle	1-9	10-24	25-49	50-99	100-249	250-499	500-999
				Prices Each						
①	12B252	240*	Black	\$0.67	\$0.57	\$0.52	\$0.48	\$0.38	\$0.361	\$0.342
②	12B341	C-240*	Black	.77	.66	.61	.55	.44	.418	.396
③	12B253	245*	Red	.67	.57	.52	.48	.38	.361	.342
④	12B342	C-245*	Red	.77	.66	.61	.55	.44	.418	.396
⑤	12A440	250	Black	.63	.54	.50	.45	.36	.342	.324
⑥	12B111	S-250	Black	.67	.57	.52	.48	.38	.361	.342
⑦	12A441	255	Red	.63	.54	.50	.45	.36	.342	.324
⑧	12B254	270*	Shield	.98	.81	.74	.68	.54	.513	.486
⑨	12B343	C-270*	Shield	1.05	.90	.83	.75	.60	.570	.540
⑩	12A442	280	Shield	.91	.78	.72	.65	.52	.494	.468
⑪	12B114	S-280	Shield	.91	.78	.72	.65	.52	.494	.468

3 CONDUCTOR TYPES

Fig.	Stk. No.	Mfg. No.	Handle	1-9	10-24	25-49	50-99	100-249	250-499	500-999
				Prices Each						
①	12B336	260*	Black	1.05	.90	.83	.75	.60	.570	.540
②	12B337	S-260*	Black	1.44	1.23	1.13	1.03	.82	.779	.738
③	12A447	267	Black	.98	.81	.74	.68	.54	.513	.486
④	12C169	269	Red	.98	.81	.74	.68	.54	.513	.486
⑤	12B338	290*	Shield	1.23	1.05	.96	.88	.70	.665	.630
⑥	12A448	297	Shield	1.16	.99	.91	.83	.66	.627	.594

SWITCHCRAFT "FLAT PLUGS"

1/4" phone plugs except S-230 is .206" dia. featuring flat, space-saving handles for use where conventional plugs protrude too far. No. 220 has adaptor clips to clamp standard phone tips. Nos. 228 and 238 are shielded, others have plastic handles.

2 CONDUCTOR TYPES

Fig.	Stk. No.	Mfg. No.	Handle	1-9	10-24	25-49	50-99	100-249	250-499	500-999
				Prices Each						
①	12B203	220*	Black	.98	.84	.77	.70	.56	.532	.504
②	12B236	227	Black	.77	.66	.61	.55	.44	.418	.396
③	12B108	228	Shield	.88	.75	.69	.63	.50	.475	.450

3 CONDUCTOR TYPES

Fig.	Stk. No.	Mfg. No.	Handle	1-9	10-24	25-49	50-99	100-249	250-499	500-999
				Prices Each						
①	12B205	230*	Black	1.19	1.02	.94	.85	.68	.646	.612
②	12A292	S-230*	Black	1.41	1.29	1.18	1.08	.86	.817	.774
③	12C209	237	Black	1.16	.99	.91	.83	.66	.627	.594
④	12C207	238	Shield	1.26	1.08	.99	.90	.72	.684	.648



SWITCHCRAFT EXTENSION JACKS

Rugged jacks feature cable anchor. 1/2" O.D., 2 1/2" long; 121 and 131 are 1/2 x 2 1/2". All for 1/4" plugs except S-128, S-830 and S-1230 which are .210". *Screw terminals, all others are solder terminals.

2 CONDUCTOR TYPES

Fig.	Stk. No.	Mfg. No.	Handle	1-9	10-24	25-49	50-99	100-249	250-499	500-999
				Prices Each						
①	12C229	80*	Black	\$1.02	\$0.87	\$0.80	\$0.73	\$0.58	\$0.551	\$0.522
②	12C282	88	Black	.91	.78	.72	.65	.52	.494	.468
③	12C277	120*	Shield	1.33	1.14	1.05	.95	.76	.722	.684
④	12C283	121	Shield	1.40	1.20	1.10	1.00	.80	.760	.720
⑤	12C284	128	Shield	1.23	1.05	.96	.88	.70	.665	.630
⑥	12C285	S-128	Shield	1.30	1.11	1.02	.93	.74	.703	.666

3 CONDUCTOR TYPES

Fig.	Stk. No.	Mfg. No.	Handle	1-9	10-24	25-49	50-99	100-249	250-499	500-999
				Prices Each						
①	12C286	131	Shield	1.75	1.50	1.38	1.25	1.00	.950	.900
②	12C278	830*	Black	1.33	1.14	1.05	.95	.76	.722	.684
③	12C279	S-830*	Black	1.75	1.50	1.38	1.25	1.00	.950	.900
④	12D263	838	Black	1.23	1.05	.96	.88	.70	.665	.630
⑤	12C280	1230*	Shield	1.72	1.47	1.35	1.23	.98	.931	.882
⑥	12C281	S-1230*	Shield	2.10	1.80	1.65	1.50	1.20	1.140	1.080
⑦	12D265	1238	Shield	1.58	1.35	1.24	1.13	.90	.855	.810

④ THICK PANEL JACK

Standard 1/4" phone jack with extra long threaded bushing for panels up to 1 1/4" thick. Overall length 2 1/4" x 5/8" dia. Mounts in 1/2" hole. Open circuit type. Solder terminals.

Stk. No.	Mfg. No.	Ola.	Conductors	1-9	10-24	25-49	50-99	100-249	250-499	500-999
12B201	151	1/4"	2	\$1.16	\$0.99	\$0.91	\$0.83	\$0.66	\$0.627	\$0.594
12B202	152B	1/4"	3	1.26	1.08	.99	.90	.72	.684	.648

SHIELDED PHONO JACKS & PLUGS



3501 FP chassis jack for front panel mount in 1/4" hole up to 1/8" thick. 3503 extension jack has shielded removable handle 1/2" O.D. with cable clamp. 3502 plug has cable clamp with 1/2" O.D. shielded removable handle.

Fig.	Stock No.	Mfg. No.	1-9	10-24	25-49	50-99	100-249	250-499	500-999
			Prices Each						
①	12A195	3502	\$0.39	\$0.33	\$0.30	\$0.28	\$0.22	\$0.209	\$0.198
②	12A196	3503	.49	.42	.39	.35	.28	.266	.252
③	12A415	3501FP	.28	.24	.22	.20	.16	.152	.144

"TINI PLUG" AND "TINI JAX" MINIATURE PLUGS & JACKS



ONLY 1/2 THE SIZE OF "LITTEL PLUGS" AND "LITTEL JACKS"

"Tini Plug" is 3/8" dia X 1 5/8" overall length, 8/64" dia. finger. *Screw terminal, others solder.

Fig.	Stk. No.	Mfg. No.	Handle	1-9	10-24	25-49	50-99	100-249	250-499	500-999
				Prices Each						
①	12B420	740*	Black	\$0.67	\$0.57	\$0.52	\$0.48	\$0.38	\$0.361	\$0.342
②	12B421	745*	Red	.67	.57	.52	.48	.38	.361	.342
③	12B422	770*	Shield	.91	.78	.72	.65	.52	.494	.468
④	12B423	750	Black	.63	.54	.50	.45	.36	.342	.324
⑤	12B425	780	Shield	.88	.75	.69	.63	.50	.475	.450

"Tini Jax" mount in 1/4" hole in panels up to 1/8" thick.
 ① 12B426 41 Open Circuit .39 .33 .30 .28 .22 .209 .198
 ② 12B427 42A Closed Circuit .42 .36 .33 .30 .24 .228 .216

"Tini-Extension Jax" cable jack Shielded metal housing. Solder lug terminals.
 ③ 12A6038 125 1.05 .90 .83 .75 .60 .57 .54

"Tini-D Jax." Bifurcated beryllium copper springs. Phenolic housing. Threaded bushing for conventional mtg. Tip spring terminals snap in P.C. boards. Mount on 3/6" centers. In 1/4" dia. hole in panels up to 1/8" thick. Depth behind panel 1/4".

Fig.	Stk. No.	Mfg. No.	1-9	10-24	25-49	50-99	100-249	250-499	500-999
			Prices Each						
④	12A6040	142A	.46	.39	.36	.33	.26	.247	.234

"MICRO" PLUG AND JACK

Ultra-miniaturized version of Tini-Plugs above. Plug is 1 1/4" long, 1/4" O.D. with .097" dia. finger. Jack is 1 1/2" long, mounts in 1/4" hole on panels up to 1/2" thick. For 2 cond. cable up to 1/4" dia. Jack is closed circuit.

Fig.	Stk. No.	Mfg. Description	1-9	10-24	25-49	50-99	100-249	250-499	500-999
			Prices Each						
①	12A287	850 Plug-Black	.60	.51	.47	.43	.34	.323	.306
②	12A288	TR-2A Jack	.46	.39	.36	.33	.26	.247	.234

"LITTEL-JAX" PHONE JACKS



Small economical standard jacks. Mount in single 3/8" hole, panels to 1/2" thick. For 1/4" plugs except S-11 and S-12B are .210" dia. Wt. 1 oz.

2 CONDUCTOR JACKS

Stock No.	Mfg. No.	Schematic	1-9	10-24	25-49	50-99	100-249	250-499	500-999
			Prices Each						
12A396	11	A	.39	.33	.30	.28	.22	.209	.198
12B347	S-11	A	.42	.36	.33	.30	.24	.228	.216
12A397	12A	C	.42	.36	.33	.30	.24	.228	.216

3 CONDUCTOR JACKS

12A398	12B	D	.49	.42	.39	.35	.28	.266	.252
12B340	S-12B	D	.63	.54	.50	.45	.36	.342	.324

STEREO 3 CONDUCTOR JACKS

12A6039	14B	G	.89	.78	.72	.65	.52	.494	.468
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SWITCHCRAFT HI-D JAX

Smaller, compact phone jacks, mate with standard 1/4" phone plugs. Molded body protects silver-plated springs. Mounts in 3/8" O.D. hole in panels up to 1/2" thick. Wt. 1 oz. 111 and 112A are 2 conductor, 112B and 113B are 3 conductor.

Stock No.	Mfg. No.	Schematic	1-9	10-24	25-49	50-99	100-249	250-499	500-999
			Prices Each						
120296	111	A	.39	.33	.30	.28	.22	.209	.198
12B352	112A	C	.42	.36	.33	.30	.24	.228	.216
12B353	112B	D	.46	.39	.36	.33	.26	.247	.234
12B362	113B	E	.60	.51	.47	.43	.34	.323	.306

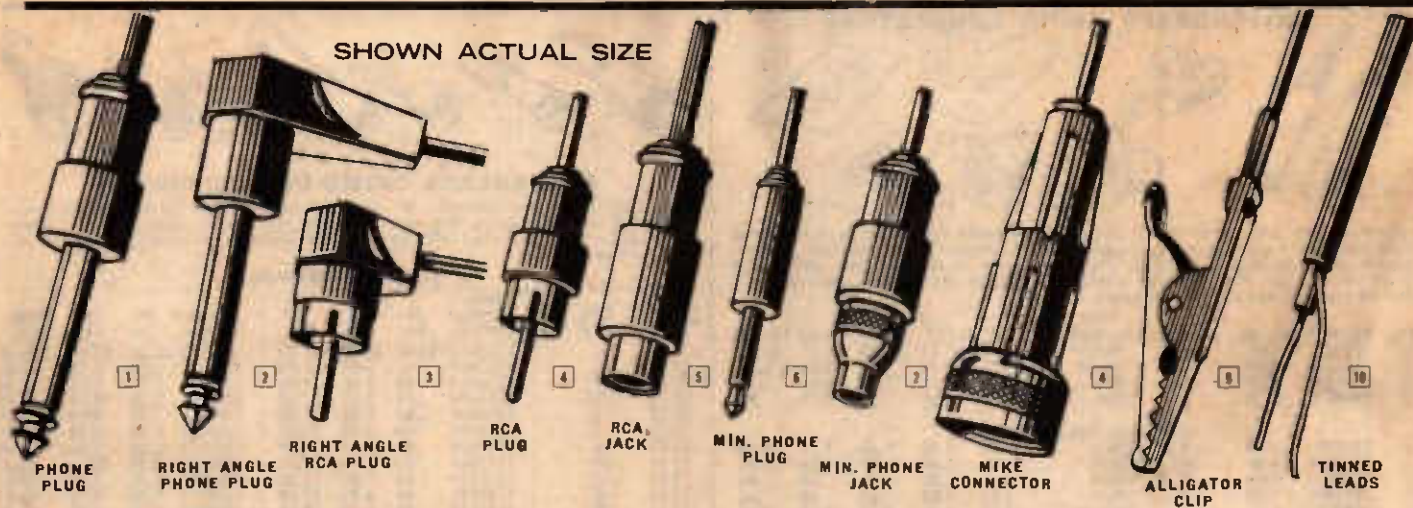
SWITCHCRAFT SHORT FRAME PHONE JACKS

Mate with standard 1/4" phone plug. Size: 3/4" high, 1 1/4" wide. Mount in panels 1/4" thick. Require 3/8" hole. Extends 1 1/4" back of panel. Wt. 1 oz.



Stock No.	Mfg. No.	Schematic	1-9	10-24	25-49	50-99	100-249	250-499	500-999
			Prices Each						
12A381	51	A	.60	.51	.47	.43	.34	.323	.306
12A382	52	B	.74	.63	.58	.53	.42	.399	.378
12A383	52A	C	.74	.63	.58	.53	.42	.399	.378
12A378	52B	D	.74	.63					

SWITCHCRAFT CABLES, CONNECTORS AND ADAPTORS



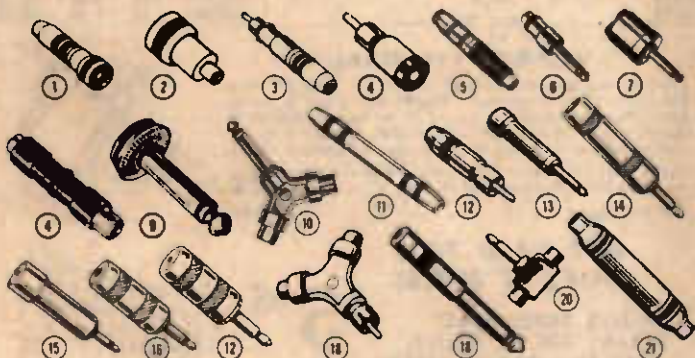
SHOWN ACTUAL SIZE

SWITCHCRAFT AUDIO CABLES
High quality for hi-fi equipment, recorders, speaker extensions, etc. Connectors are molded in plastic directly to cable, with molded-in finger grip for easy removal. Chrome-gray wire. All shielded except * which are unshielded and + which are clear vinyl.

Stock No.	Switchcraft No.	Terminations End 1	Terminations End 2	Lgth.	1-9 Each	10-24	25-49
33A6514	25AC25	4	4	1 1/2 ft.	\$1.12	\$0.84	\$0.77
33A6515	25AF25	4	4	3 ft.	1.24	.93	.85
33A6516	25AK25	4	4	6 ft.	1.52	1.14	1.05
33A6517	25AN25	4	4	10 ft.	2.08	1.56	1.43
33A6518	25AU25	4	4	25 ft.	3.60	2.70	2.48
33A6519	25AF82	4	5	3 ft.	1.40	1.05	.96
33A6520	25AK82	4	5	6 ft.	1.84	1.38	1.27
33A6521	25AN82	4	5	10 ft.	2.08	1.56	1.43
33A6522	25AU82	4	5	25 ft.	3.60	2.70	2.48
33A6523	25AK87	4	8	6 ft.	2.52	1.89	1.73
33A6524	25AK30	4	3	6 ft.	1.52	1.14	1.05
33A6525	25AN30	4	3	10 ft.	2.08	1.56	1.43
33A6526	25CK84*	4	10	6 ft.	.96	.72	.66
35A6527	25AC84	4	10	1 1/2 ft.	.84	.63	.58
33A6528	25AF84	4	10	3 ft.	1.00	.75	.69
33A6529	25AK84	4	10	6 ft.	1.20	.90	.83
33A6530	25AN84	4	10	10 ft.	1.68	1.26	1.16
33A6531	25AU84	4	10	25 ft.	3.32	2.49	2.28
33A6532	25CK86*	4	9	6 ft.	1.84	1.38	1.27
33A6689	25WN25* +	4	4	10 ft.	1.28	.96	.88
33A6690	25WT25* +	4	4	20 ft.	1.60	1.20	1.10
33A6691	25WN82* +	4	5	10 ft.	1.60	1.20	1.10
33A6692	25WT82* +	4	5	20 ft.	1.75	1.32	1.21
33A6693	25WN84* +	4	10	10 ft.	1.04	.78	.72
33A6694	25WT84* +	4	10	20 ft.	1.43	1.14	1.05

Stock No.	Switchcraft No.	Terminations End 1	Terminations End 2	Lgth.	1-9 Each	10-24	25-49
33A6534	15AK15	2	2	6 ft.	\$2.68	\$2.01	\$1.84
33A6535	15AK25	2	4	6 ft.	2.04	1.53	1.40
33A6536	15AK30	2	3	6 ft.	2.04	1.53	1.40
33A6537	05AK05	1	1	6 ft.	2.68	2.01	1.84
33A6538	05AN05	1	1	10 ft.	3.60	2.70	2.48
33A6539	05AU05	1	1	25 ft.	4.72	3.54	3.25
33A6540	05AK25	1	4	6 ft.	2.04	1.53	1.40
33A6541	05AN25	1	4	10 ft.	2.80	2.10	1.93
33A6542	05AK82	1	5	6 ft.	2.24	1.68	1.54
33A6543	05CK86*	1	9	6 ft.	1.96	1.47	1.35
33A6544	05CT86	1	1	20 ft.	3.08	2.31	2.12
33A6545	30AC30	3	3	1 1/2 ft.	1.08	.81	.74
33A6546	30AF30	3	3	3 ft.	1.24	.93	.85
33A6547	30AK30	3	3	6 ft.	1.52	1.14	1.05
33A6548	30AN30	3	3	10 ft.	2.04	1.53	1.40
33A6549	40DK05	1	4	6 ft.	2.80	2.10	1.93
33A6550	40DK25	4	6	6 ft.	2.56	1.92	1.76
33A6551	40DK83	6	7	6 ft.	2.80	2.10	1.93
33A6552	30AF84	3	10	3 ft.	1.00	.75	.69
33A6553	30AK84	3	10	6 ft.	1.20	.90	.83
33A6554	25FF25	two 4's	two 4's	3 ft.	3.32	2.49	2.28
33A6555	25FK25	two 4's	two 4's	6 ft.	3.84	2.88	2.64
33A6556	25FN25	two 4's	two 4's	10 ft.	4.60	3.45	3.16
33A6557	25FF84	two 4's	two 10's	3 ft.	2.96	2.22	2.04
33A6558	25FK84	two 4's	two 10's	6 ft.	3.32	2.49	2.28
33A6559	25FN84	two 4's	two 10's	10 ft.	3.84	2.88	2.64
33A6645	40DK40	6	6	6 ft.	1.96	1.47	1.35
33A6533	87AU87	8	8	25 ft.	5.08	3.81	3.49

SWITCHCRAFT SHIELDED ADAPTORS



Stk. No.	Type	Input	Output	1-5 Ea.	6-24 Ea.	25-49 Ea.
33A6560	330F1	RCA plug	Two RCA jacks	2.00	1.50	1.38
33A6561	330F2	RCA plug	One RCA plug & 1 jack	2.00	1.50	1.38
33A6562	330F3	RCA plug	Two RCA plugs	2.00	1.50	1.38
33A6695	330T3	Min. Phone Plug	2 Min. Phone Jacks	2.00	1.50	1.38
33A6563	330H	European 3 pin	Two RCA jacks	3.24	2.43	2.23
33A6640	33FK25	European 3 pin	Two RCA plugs	3.24	2.43	2.23
33A6639	330C	European 5 pin	2 RCA jacks	3.16	2.37	2.17
33A6564	3306	European 5 pin	4 RCA jacks	5.56	4.17	3.82

SWITCHCRAFT MULTIPLE PLUGS & RECEPTACLES



Small plugs and receptacles. Mate with input and output jacks on many foreign built tape recorders and radios including Norelco, Sony, Uher, Telefunken, Korting, Oual, Kuba, etc. Shpg. Wt. 2 oz. *Indicates female connectors. 57GB5F mates with 3 or 5 pin 180° plugs.

Stock No.	Mfg. No.	No. Pins	Pin Diagram	Shell	1-9 Ea. Each	10-24 Ea. Each	25-49 Ea. Each
12A6204	01QK2M	2	A	Gray plastic	\$0.32	\$0.24	\$0.22
12A6205	02QK2F*	2	E	Gray plastic	.40	.30	.28
12A6208	05BL3M	3	B	Metal	1.32	.99	.91
12A6209	05BL5M	5	C	Metal	1.48	1.11	1.02
12A6210	12BL5M	5	D	Metal	1.48	1.11	1.02
12A6185	05GM3M	3	B	Gray plastic	.88	.66	.61
12A6187	05GM5M	5	C	Gray plastic	1.04	.78	.72
12A6186	12GM5M	5	D	Gray plastic	1.04	.78	.72
12A6188	05QK3M	3	B	Gray plastic	.48	.36	.33
12A6190	05QK5M	5	C	Gray plastic	.64	.48	.44
12A6189	12QK5M	5	D	Gray plastic	.64	.48	.44
12A6206	57GB5F*	3 or 5	F	Metal	.72	.54	.50
12A6207	61GA5F*	5	G	Metal	.72	.54	.50

Adaptors to interconnect components that do not have mating jacks or plugs. Positive mating contacts prevent resistive line losses. Nickel plated finish. 1 1/2" long, 1 1/2" diameter. Wt. 5 ozs.

Stk. No.	Type	Input	Output	1-5 Ea.	6-24 Ea.	25-49 Ea.
12B225	332A	Phone Jack	Female Mike Conn.	\$1.68	\$1.26	\$1.16
12B226	334A	RCA Jack Conn.	Female Mike Conn.	1.40	1.05	.96
12B227	336A	Phone Jack	RCA Plug Conn.	1.68	1.26	1.16
12B228	338A	Male Mike Conn.	RCA Plug Conn.	1.08	.81	.74
12A6011	336B	Phone Jack	RCA Jack	1.68	1.26	1.16
12B230	345A	RCA Jack	Phone Plug	1.24	.93	.85
12B231	346A	2 Phone Tip Jacks	Phone Plug	2.20	1.65	1.51
12B238	349A	RCA Jack	RCA Jack	1.04	.78	.72
12A6022	44	Male Mike	Phone Plug	.52	.39	.36
12A6032	330PJ	Two RCA Jacks	Phone Plug	2.00	1.50	1.38
12A6033	361	Phone Jack	Phone Jack	2.20	1.65	1.51
12A6034	365	Min. Phone Jack	RCA Plug	1.48	1.11	1.02
12A6035	370	RCA Jack	Min. Phone Plug	1.16	.87	.80
12A6036	374	Phone Jack	Min. Phone Plug	1.68	1.26	1.16
12A6037	375	RCA Jack	Micro Plug	1.52	1.14	1.05
12A6038	376	Min. Phone Jack	Micro Plug	1.52	1.14	1.05
12A6039	377	Micro. Jack	Min. Phone Plug	1.52	1.14	1.05
12A6202	330F	Two RCA Jacks	RCA Plug	1.72	1.29	1.18
12A6203	364A	Min. Phone Jack	Phone Plug	1.48	1.11	1.02
12A6201	378	Min. Phone Plug	2 Min. Phone Jacks	2.00	1.50	1.38
33A6696	356	Min. Phone Jack	Min. Phone Jack	1.68	1.26	1.16

Off-The-Shelf Delivery From B-A's Large Electronic Parts Inventory

SWITCHCRAFT CONNECTORS AND TERMINALS

SWITCHCRAFT AUDIO CONNECTORS



Interchangeable with Canon XLR-3, XLR-4 and Amphenol 91-850 series. Professional style audio connectors made for rugged service. Connectors are polarized with exclusive grounding lug on all units. Shells are made of die-cast zinc, satin nickel finish. Inserts are of high-impact plastic. Wall plates are brushed stainless steel and fit standard electrical outlet boxes.

Fig.	Stk. No.	Mfg. No.	Contacts	Description	CORD PLUGS				
					1-9	10-24	25-49	50-99	100-249
1	12B348	A3F	3	Female	\$1.72	\$1.47	\$1.35	\$1.23	\$0.98
2	12A6042	A4F	4	Female	2.14	1.83	1.68	1.53	1.22
3	12B349	A3M	3	Male	1.47	1.26	1.16	1.05	.84
4	12A6043	A4M	4	Male	1.58	1.35	1.24	1.13	.90

PANEL AND WALL RECEPTACLES

Fig.	Stk. No.	Mfg. No.	Contacts	Description	Prices Each				
					1-9	10-24	25-49	50-99	100-249
5	12B350	B3M	3	Male	2.10	1.80	1.65	1.50	1.20
6	12A6044	B4M	4	Male	2.21	1.89	1.73	1.58	1.26
7	12B351	C3M	3	Male	1.12	.96	.88	.80	.64
8	12A6045	C4M	4	Male	1.23	1.05	.96	.88	.70
9	12A6002	C3F	3	Female	2.24	1.92	1.76	1.60	1.28
10	12A6046	C4F	4	Female	2.35	2.01	1.84	1.68	1.34
11	12A8003	G3MS	3	Male	3.64	3.12	2.86	2.60	2.08
12	12A6048	G4MS	4	Male	3.85	3.30	3.03	2.75	2.20
13	12A6098	H3MS	3	Dual Male	5.11	4.38	4.02	3.65	2.92
14	12A6104	H4MS	4	Dual Male	5.53	4.74	4.35	3.95	3.16
15	12A6004	J3FS	3	Female	3.78	3.24	2.97	2.70	2.16
16	12A6051	J4FS	4	Female	3.99	3.42	3.14	2.85	2.28

SWITCHCRAFT AUDIO CONNECTOR ADAPTORS



Adapts male or female three conductor Switchcraft (above) or Cannon plugs to standard 1/4" phone plugs and jacks or mike connectors.

Fig.	Stk. No.	Mfg. No.	Description	1-9 Ea.	10-24 Ea.	25-49 Ea.
1	12A6092	389	Double Female A3F	\$3.50	\$3.00	\$2.75
2	12A6093	390	Double Male A3M	2.92	2.52	2.31
3	12A6094	383	Female A3F to 1/4" Jack	3.49	2.91	2.67
4	12A6095	384	Male A3M to 1/4" Jack	2.99	2.61	2.39
5	12A6096	386	Female A3F to 1/4" Plug	3.34	2.85	2.61
6	12A6097	387	Male A3M to 1/4" Plug	2.94	2.52	2.31
7	12A6105	335A	Male Mike to A3F	2.49	2.13	1.95
8	12A6106	339A	Female Mike to A3M	2.49	2.13	1.95

Q-G MICROPHONE CORD PLUG WITH SWITCH



Replaces Cannon XLR-3, Amphenol 91-850 or Switchcraft mike connectors, providing DPDT switching by sub-miniature slide switch.

Stock No.	Switchcraft Number	1-9	10-24	25-49	50-99	100 Up
12A6194	T3F, 3 contact	\$6.00	\$4.50	\$4.13	\$3.75	\$3.00
12A6195	T4F, 4 contact	6.40	4.80	4.40	4.00	3.20

MIKE STAND CONNECTOR



Simplify mounting of most mikes to gooseneck or stem. 5/8 x 27 female stand threads.

Stock No.	Switchcraft Number	1-9	10-24	25-49	50-99	100 Up
12A6196	P3F, 3 contact	\$1.92	\$1.44	\$1.32	\$1.26	\$1.20
12A6197	P4F, 4 contact	2.40	1.80	1.65	1.58	1.50

WALDOM PHENOLIC WIRE NUTS

Solderless screw-on connectors for securely joining stripped ends of wire together. All are UL approved except (*). Rated 300 volts except (†) 300-600 V. (1000 V. enclosed in fixtures).

Stock No.	Wire Combinations	25			100			1000		
		Minimum	Maximum	For	For	For	For	For	For	
12A1853*	2-#24	10.60	2-#18	40c	\$1.15	\$ 9.65				
12A1854†	2-#18	1.33	3-#16	70c	2.15	18.30				
12A1855†	1-#18 & 1-#16	1.25	5-#16	70c	2.15	19.00				
12A1856	1-#14 & 1-#18	1.33	2-#12 & 1-#18	90c	2.75	23.50				
12A1857	1-#14 & 1-#16	1.22	3-#10	1.40	4.55	39.60				

KIT OF 169 WIRE NUTS above in compartmented plastic box. No. 12A1858. Waldom K210. Shpg. wt. 1 lb. Per Kit \$3.20

SOLDER TYPE TERMINAL LUGS



Stk. No.	Type	Lgth.	Hole	100	1000	Stk. No.	Type	Lgth.	Hole	100	1000
12A1286	A	3/8"	8	\$1.35	\$10.60	12A1294	H	3/8"	10	\$1.50	\$12.00
12A1287	B	3/8"	8	1.35	10.60	12A1296	I	1/2"	10	2.50	20.00
12A1288	C	3/8"	8	1.33	10.60	12A1297	J	1 1/2"	1/4	3.13	25.00
12A1289	D	3/8"	8	1.25	10.00	12A1298	K	3/8"	4	1.50	12.00
12A1290	E	3/8"	6	1.33	10.60	12A1299	J	3/8"	6	1.50	12.00
12A1293	F	1/2"	Rivet	1.22	9.40	12A1300	J	3/8"	8	1.50	12.00
12A1291	G	1/2"	6	1.22	9.40						



SOLDERLESS CRIMP-ON TERMINALS

Choice of Flared vinyl insulated for easy wire insertion and to accommodate wire insulation or non-insulated type. Electrolytically pure copper. Multiple barrel serrations guarantee full contact with wire. Electro-annealed for extra life. Average wt. 8 ounces per 100.

① RING TONGUE TERMINALS

Wire Size	Stud Size	Non-Insulated Stock No.	20			100			1000		
			For	For	For	For	For	For	For	For	For
22-18	4	12A2312	\$0.63	\$2.50	\$17.80	12A2316	\$1.29	\$5.15	\$38.00		
22-18	6	12A1804	.63	2.50	17.80	12A1811	1.29	5.15	38.00		
22-18	8	12A2313	.63	2.50	17.80	12A2317	1.29	5.15	38.00		
22-18	10	12A1805	.63	2.50	17.80	12A1812	1.29	5.15	38.00		
22-18	1/4	12A1806	.86	3.45	24.60	12A1813	1.68	6.70	49.20		
22-18	3/8	12A1807	.86	3.45	24.60	12A1814	1.68	6.70	49.20		
16-14	6	12A1808	.63	2.50	17.80	12A1815	1.29	5.15	38.00		
16-14	8	12A2314	.63	2.50	17.80	12A2318	1.29	5.15	38.00		
16-14	10	12A1809	.63	2.50	17.80	12A1816	1.29	5.15	38.00		
12-10	8	12A2315	.86	3.45	24.60	12A2319	1.68	6.70	49.20		
12-10	10	12A1810	.86	3.45	24.60	12A1817	1.68	6.70	49.20		

② SPADE TONGUE TERMINALS

Wire Size	Stud Size	Non-Insulated Stock No.	20			100			1000		
			For	For	For	For	For	For	For	For	
22-18	4-6	12A1818	.63	2.50	17.80	12A1823	1.29	5.15	38.00		
22-18	8	12A2320	.63	2.50	17.80	12A2328	1.29	5.15	38.00		
22-18	10	12A1819	.63	2.50	17.80	12A1824	1.29	5.15	38.00		
16-14	4-6	12A1820	.63	2.50	17.80	12A1825	1.29	5.15	38.00		
16-14	8	12A2321	.63	2.50	17.80	12A2324	1.29	5.15	38.00		
16-14	10	12A1821	.63	2.50	17.80	12A1826	1.29	5.15	38.00		
12-10	8	12A2322	.86	3.45	24.60	12A2325	1.68	6.70	49.20		
12-10	10	12A1822	.86	3.45	24.60	12A1827	1.68	6.70	49.20		

③ FLANGED SPADE TERMINALS

Wire Size	Stud Size	Non-Insulated Stock No.	20			100			1000		
			For	For	For	For	For	For	For	For	
22-18	4-6	12A1828	.63	2.50	17.80	12A1832	1.29	5.15	38.00		
22-18	8	12A2326	.63	2.50	17.80	12A2328	1.29	5.15	38.00		
22-18	10	12A1829	.63	2.50	17.80	12A1833	1.29	5.15	38.00		
16-14	6	12A1830	.63	2.50	17.80	12A1834	1.29	5.15	38.00		
16-14	8	12A2327	.63	2.50	17.80	12A2329	1.29	5.15	38.00		
16-14	10	12A1831	.63	2.50	17.80	12A1835	1.29	5.15	38.00		

④ BUTT CONNECTORS

Wire Size	Stud Size	Non-Insulated Stock No.	20			100			1000		
			For	For	For	For	For	For	For	For	
22-18		12A1836	.70	2.80	19.75	12A1839	1.53	6.10	44.90		
16-14		12A1837	.70	2.80	19.75	12A1840	1.53	6.10	44.90		
12-10		12A1838	1.23	4.90	35.10	12A1841	2.08	8.30	61.35		

⑤ MALE QUICK DISCONNECTS — PUSH-ON TYPE

Wire Size	Stud Size	Non-Insulated Stock No.	20			100			1000		
			For	For	For	For	For	For	For	For	
18-14	.187	12A1842	.63	2.50	17.65	12A1844	1.29	5.15	38.00		
18-14	.250	12A1843	.73	2.90	20.65	12A1845	1.33	5.30	39.05		

⑥ FEMALE QUICK DISCONNECTS — PUSH-ON TYPE

Wire Size	Stud Size	Non-Insulated Stock No.	20			100			1000		
			For	For	For	For	For	For	For	For	
26-20	.110	12A2514	.73	2.90	20.65						
22-18	.250	12A2515	.73	2.90	20.65						
18-14	.110	12A2513	.73	2.90	20.65	12A2516	1.68	6.70	49.20		
18-14	.187	12A1846	.73	2.90	20.65	12A1848	1.33	5.29	37.69		
18-14	.250	12A1847	.73	2.90	20.65	12A1849	1.33	5.29	37.69		

⑦ NYLON INSULATED CLOSE-END CONNECTORS

Wire Size	Stud Size	Non-Insulated Stock No.	20			100			1000		
			For	For	For	For	For	For	For	For	
20-14		12A1850	1.08	4.30	30.75						
16-10		12A1851	1.58	6.30	45.00						

TAP-OFF TERMINAL

Pierces through insulation of 10 to 18 stranded wire for solid electrical contact. Installs with pliers or crimp tool. Plug in terminal supplied to fit tap-off terminal. Simplest way to connect trailer lights to your auto, or use anywhere to make a connection to existing wiring.

Completely insulated. Shpg. wt. 6 pcs.—1 oz. **99c**

No. 12A1852. Package

Mueller CLIPS, ELECTRONIC HARDWARE

MUELLER CLIPS AND INSULATORS

SCREW OR LUG CONNECTIONS—NO SOLDER NEEDED. TYPES MARKED WITH ASTERISKS (*) ARE COPPER. OTHERS ARE OF STEEL (Cadmium-Plated). "S" AFTER TYPE NUMBER INDICATES SCREW CONNECTORS. †SOLDER TYPE. Shpg. wt. 2 oz.



① 34 SERIES MICRO-GATOR CLIPS

Has microscopic tip, no larger than a pin head. Makes firm connection on printed circuits, transistors and other tiny terminals. Use No. 36 Insulators, listed below.

Stock No.	Type	Lgth.	Open	1-9	10-99	100-499	500 up
12A1069	†34	1 1/2"	3/4"	\$0.07	\$0.05	\$0.043	\$0.039
12A1070	*†34C	1 1/2"	3/4"	.09	.064	.055	.051

② "MINI-GATOR" CLIP

For testing miniature and sub-miniature equipment.

12B1035	†30	1 1/4"	3/8"	.09	.062	.053	.051
12B1036	*†30C	1 1/4"	3/8"	.11	.076	.065	.061

③ ALLIGATOR CLIPS (FIT Banana Plugs)

12B1026	†60	2"	3/4"	.11	.078	.067	.062
12A1006	60S	2"	3/4"	.13	.09	.077	.071
12A1007	*60CS	2"	3/4"	.19	.136	.116	.096

④ INSULATED ALLIGATOR CLIPS

Red or Black shank. Fits banana plugs.

12M1008	60HS	2 1/2"	3/4"	.17	.12	.104	.093
12M1009	*60CHS	2 1/2"	3/4"	.23	.16	.141	.118

⑤ ALL-INSULATED ALLIGATOR CLIPS

Protects against shocks and shorts in compact equipment. Red or black.

12M1638	63	2"	1/4"	.24	.17	.145	.12
12M1639	*63C	2"	1/4"	.29	.20	.172	.145



⑥ "70" SERIES ALLIGATOR CLIPS

Utilizes cord strain relief ears to prevent breakage of lead wire.

Stock No.	Type	Lgth.	Open	1-9	10-99	100-499	500 up
12A923	†70	1 1/4"	3/4"	\$0.08	\$0.058	\$0.05	\$0.046
12A924	70S	1 1/4"	3/4"	.10	.07	.06	.055
12A925	*70CS	1 1/4"	3/4"	.16	.115	.099	.079

⑦ CROCODILE CLIP

12A1010	85	2 1/2"	3/4"	.13	.094	.081	.074
12B1041	*85C	2 1/2"	3/4"	.26	.18	.153	.124
12A1011	†85T	2 1/2"	3/4"	.34	.24	.205	.175

⑧ GENERAL PURPOSE TEST CLIPS

Needle type makes a quick temporary contact through insulation.

No.	Type	Lgth.	Description	1-9	10-99	100-499	500 up
12B1022	50-C	2 1/4"	Needle Type	.39	.27	.23	.202
12B1023	51-C	2 1/4"	Less Needle	.27	.19	.164	.138

⑨ BATTERY CLIPS WITH GRIP TEETH—LEAD PLATED

No.	Type	Amps.	Lgth.	Open	1-9	10-99	100-499	500 up
12A671	24A	25	2 3/8"	3/4"	.32	.226	.194	.166
12A672	21A	50	1 1/4"	1 1/4"	.57	.40	.344	.308

⑩ TEST CLIPS WITH MESH TEETH

12A1000	45	1 1/2"	3/4"	.11	.074	.064	.059
12A1001	*45C	1 1/2"	3/4"	.19	.134	.114	.092
12A1002	†48B	2"	1/2"	.17	.117	.10	.079
12A1079	†48C	2"	1/2"	.24	.166	.142	.119
12A1003	†27	20	2 1/4"	.20	.137	.117	.095
12A1004	†27C	40	2 1/4"	.33	.23	.197	.17
12A1078	†25C	75	3"	.55	.39	.33	.293

†Meshing Teeth on All 3 Sides of Jaws. *Solid Copper

⑪ FLEXIBLE VINYL INSULATORS ONLY

Red or black, specify colors wanted.

Stk. No.	Type	For Clip	1-9	10-99	100-499	500 up
12M674	23	21A	.48	.34	.29	.235
12M673	26	24A, 25C	.31	.22	.187	.152
12M1018	29	27, 27C	.19	.134	.115	.093
12M1037	32	30, 30C	.05	.033	.029	.023
12M1071	36	34, 34C	.05	.033	.028	.023
12M1014	47	45, 45C	.08	.062	.045	.037
12M1015	49	48C, 50C, 51L	.14	.098	.084	.059
12M1064	62	60S, 60CS, 60, 70S, 70CS	.06	.044	.037	.028
12M1074	72	70, 70-S, 70-CS	.06	.044	.037	.028
12M1017	87	85, 85T, 85C	.08	.052	.045	.037

SAFE-T-KLIP

Nylon insulated, safe operation to 600 volts. Insulation covers outside of clip thoroughly protecting against accidental shorts or contact with power leads. For screw or solder connection. Strain relief built-in 2 13/16" long

Packed in Pairs - 1 Red and 1 Black

No. 35A8003. Industrial Devices B1410A. Per Pair \$1.49

POLYSTYRENE SHEETS, TUBING, RODS



Polystyrene is excellent for high frequency insulation. It is an ideal material for coil forms and insulators because of its very low loss factor. Does not deteriorate with age. Aside from radio applications many attractive articles may be built of this material.

RODS 12" LENGTH				TUBING—12" LENGTH			
Stock No.	O.D.	Wt. Ozs.	Each	Stock No.	O.D.	I.O.	Wt. Ozs.
12B300	1/8"	1/4	\$0.05	12B212	1/4"	1/4"	1/4
12B301	3/8"	1/4	.07	12B309	3/8"	3/8"	1/4
12B219	1/4"	1/4	.12	12B213	3/8"	1/4"	1/4
12B302	3/4"	1	.18	12B214	1/2"	3/8"	1/4
12B220	3/8"	1	.28	12B310	3/8"	1/2"	1/2
12B221	1/2"	1 1/2	.48	12B215	3/4"	3/8"	1/2
12B304	3/8"	2	.72	12B216	1"	7/8"	1 1/2
12B222	3/4"	3	1.00	12B218	2"	1 1/4"	5 1/2
12B223	1"	6	1.90				

POLYSTYRENE CEMENT No. 17A1307 GC No. 37—2 Oz. Net Each 60¢

12" X 12" SHEETS No. 12A2311 8 \$4.15 \$3.74 No. 12A1908 13 5.50 4.95 No. 12A1909 22 8.15 7.34



KEYSTONE ALUMINUM BATTERY HOLDERS

Stock No.	Keystone Holds No. of Cells	Fig.	1-19	20-99	100 Up
12A2013	137	1	\$0.25	\$0.22	\$0.20
12A2014	138	2	.42	.37	.33
12A2015	139	1	.25	.22	.20
12A2016	140	2	.40	.35	.32
12A2335	171	3	.70	.63	.56
12A2338	182	4	.70	.63	.56
12A2337	189	2	.50	.40	.36
12A2339	192	4	.70	.59	.56
12A2340	193	6	1.02	.89	.83
12A2017	173	1	.33	.29	.26
12A2018	174	2	.40	.35	.32
12A2341	187	3	.65	.62	.55
12A2342	185	2	.50	.40	.36
12A2344	196	4	.70	.59	.56
12A2345	197	6	1.02	.89	.83
12A2021	175	1	.33	.29	.26
12A2022	176	2	.40	.35	.32
12A2346	190	3	.72	.68	.61
12A2023	186	2	.51	.41	.37
12A2348	200	4	.72	.61	.57
12A2349	201	6	1.05	.94	.86
12A2350	205	6	.95	.85	.78
12A2351	203P	1	.48	.40	.33

9 V. CELL HOLDER FOR EVEREADY 216 etc. 22 1/2 V. CELL HOLDER FOR EVEREADY 412 etc.



LEE BEE FAHNESTOCK CLIPS

Positive contact clips. *Bronze. All others are Brass. Avg. shpg. wt. 5 oz., per 100.

Illus. Fig.	Stock No.	Mfg. Type	Lng.	Wd.	Max. Wire	Mtg. Hole	10 For	100 For	1000 For
(1)	12A1089	2	1"	3/8"	#10	#8	\$0.55	\$4.32	\$38.73
(1)	12A1090	10	3/4"	3/8"	#14	#6	.36	2.78	24.21
(2)	12A1091	5	1 1/2"	3/8"	#8	#8	.60	4.70	41.00
(2)	12A927	*15	1 1/2"	7/8"	#16	#4	.33	2.52	21.90



① CABLE CLAMPS ⑥ ANGLE BRACKETS

Heavy gauge steel, nickel plated. 3/8" wide with No. 6 mounting hole. Fits cable up to size shown.

No.	I.D.	10 For	100 For	1000 For
12A1303	1/2"	\$0.24	\$1.54	\$12.26
12A1304	3/4"	.22	1.43	11.46

② NYLON CABLE CLAMPS ④ G-C BRASS EYELETS

Hold their shape under severest stress. Stands temp. of -60 to 300 degrees F., do not support combustion. All are 3/8" wide except 1/4" and larger are 1/2" wide—white color.

No.	I.D.	10 For	100 For	1000 For
12A1098	1/8"	\$0.36	\$2.44	\$19.53
12A1081	3/8"	.30	2.50	20.63
12A1099	1/4"	.42	2.83	22.68
12A1255	3/8"	.45	3.11	24.89
12A1345	3/8"	.48	3.20	26.22
12A1082	1/2"	.51	3.47	27.80
12A1346	1/2"	.54	3.69	29.53
12A1083	3/4"	.82	5.54	44.34
12A1347	3/4"	.87	5.82	46.62
12A1084	1"	.99	6.61	54.87

Specify B-A No. 12M2355 & G-C No. G.C. Shank Length 100 1000 No. Dia. Under Head For For

7251	.087	1/8"	\$0.37	\$2.94
7252	.087	3/16"	.49	3.82
7253	.087	1/4"	.61	4.89
7257	.123	3/8"	.68	5.46
7261	.123	1/2"	.71	5.73
7269	.182	3/4"	.72	5.73

③ SPADE MTG. BOLTS

Cadmium Plated. 6-32 screw end. No. 12A1302. 10 For. 40c 100 For. \$2.40 1000 For. \$20.00

THE FINEST ELECTRONIC HARDWARE

MACHINE SCREWS



BRASS ZINC PLATED
Bright finish — Non-Magnetic.

STEEL ZINC PLATED
Bright finish — Rust-proof.

Please indicate B-A Stock No. and Quantity desired when ordering.
Weights, average per 100: 4-36, 4-40—3 oz.; 6-32—4 oz.; 8-32—6 oz.; 10-32—9 oz.; 1/4"—2 lbs.

① BINDER HEAD

4-36 ZINC PLATED BRASS						
Brass Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A2071	3/8	.71	1.58	6.95	12.08	10.50
12A2072	1/2	.80	1.77	7.81	13.57	11.80

6-32 ZINC PLATED BRASS						
Brass Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A2073	1/4	.72	1.61	7.05	12.26	10.66
12A2074	3/8	.78	1.73	7.57	13.18	11.46
12A2075	1/2	.86	1.92	8.46	14.72	12.80
12A2076	3/4	1.05	2.34	10.28	17.88	15.55
12A2077	1	1.14	2.54	11.19	19.46	16.92

8-32 ZINC PLATED BRASS						
Brass Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A2078	1/4	.99	2.19	9.88	17.18	14.60
12A2079	3/8	1.04	2.31	10.19	17.71	15.40
12A2080	1/2	1.19	2.64	11.84	20.24	17.60
12A2081	3/4	1.41	3.13	14.12	24.54	20.86
12A2082	1	1.63	3.63	16.36	28.45	24.18

② ROUND HEAD

2-56 ZINC PLATED BRASS						
Brass Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A2083	1/4	.41	.90	3.97	6.90	6.00
12A2084	3/8	.43	.96	4.23	7.36	6.40
12A2085	1/2	.56	1.25	5.46	9.49	8.25

4-36 ZINC PLATED BRASS						
Brass Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A2086	1/4	.65	1.45	6.42	11.18	9.70
12A2087	3/8	.71	1.58	6.95	12.08	10.50
12A2088	1/2	.80	1.77	7.81	13.57	11.80
12A2089	3/4	.84	1.86	8.20	14.26	12.40

6-32 ZINC PLATED BRASS						
Brass Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A2090	1/4	.82	1.38	6.08	10.55	9.20
12A2091	3/8	.72	1.61	7.05	12.26	10.66
12A2092	1/2	.78	1.73	7.57	13.18	11.46
12A2093	3/4	.86	1.92	8.46	14.72	12.80
12A2094	1	1.05	2.34	10.28	17.88	15.55
12A2095	1 1/4	1.14	2.54	11.19	19.46	16.92
12A2096	2	1.94	4.31	19.44	33.80	28.73

8-32 ZINC PLATED BRASS						
Brass Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A2097	1/4	1.04	2.31	10.19	17.71	15.40
12A2098	3/8	1.19	2.64	11.84	20.24	17.60
12A2099	1/2	1.70	3.78	17.03	29.62	25.18

10-32 ZINC PLATED BRASS						
Brass Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A2100	3/8	1.29	2.87	13.03	22.65	19.15
12A2101	1/2	1.46	3.24	14.62	25.41	21.60
12A2102	3/4	1.87	4.16	18.75	32.60	27.71

1/4-20 ZINC PLATED STEEL						
Steel Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A2103	1	1.48	3.28	14.80	25.73	21.87

Oval Head (Rack Screws) ZINC Steel						
Steel Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A2104	6-32-1/2	.38	.84	3.81	6.61	5.62
12A2105	8-32-1/2	.55	1.23	5.55	9.66	8.21

NYLON HARDWARE						
Binder Head Screws			Hex Nuts			
Stk. No.	Size	20	100	500	1000	5000
12A2819	6/32 X 3/8	1.70	3.79	34.60		
12A2820	6/32 X 1/2	1.70	3.79	34.50		
12A2821	6/32 X 3/4	1.70	3.79	34.50		
12A2822	6/32 X 3/8	1.74	3.86	35.30		
12A2823	8/32 X 1/2	1.74	3.86	35.30		
12A2824	8/32 X 3/4	1.74	3.86	35.30		
12A2825	10/32 X 1/2	1.74	3.86	35.30		
12A2826	10/32 X 1	1.81	4.02	37.30		

④-40 ZINC PLATED STEEL

Steel Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A1859	1/4	.33	.73	3.30	5.73	4.87
12A1860	3/8	.34	.74	3.35	5.82	4.95
12A1861	1/2	.35	.77	3.40	5.91	5.14

6-32 ZINC PLATED STEEL						
Steel Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A1862	1/4	.33	.73	3.29	5.71	4.85
12A1863	3/8	.34	.74	3.44	5.98	5.08
12A1864	1/2	.37	.83	3.75	6.81	5.53
12A1865	3/4	.44	.98	4.43	7.70	6.55
12A1866	1	.49	1.08	4.86	8.45	7.18

8-32 ZINC PLATED STEEL						
Steel Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A1867	1/4	.42	.94	4.26	7.40	6.29
12A1868	3/8	.47	1.04	4.72	8.19	6.96
12A1869	1/2	.51	1.13	4.97	8.63	7.50
12A1870	3/4	.56	1.24	5.57	9.68	8.23
12A1871	1	.60	1.34	6.05	10.52	8.94

② 2-58 ZINC PLATED STEEL

Steel Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A2106	3/8	.30	.66	2.89	5.01	4.36
12A2107	1/2	.31	.67	3.02	5.26	4.47
12A2108	3/4	.32	.70	3.16	5.49	4.67

4-40 ZINC PLATED STEEL						
Steel Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A2109	1/4	.30	.66	2.89	5.01	4.36
12A2110	3/8	.31	.69	3.01	5.24	4.54
12A2111	1/2	.35	.77	3.40	5.91	5.14
12A2112	3/4	.41	.92	4.04	7.02	6.10

6-32 ZINC PLATED STEEL						
Steel Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A1873	1/4	.32	.71	3.20	5.55	4.72
12A1874	3/8	.33	.73	3.27	5.68	4.83
12A1875	1/2	.36	.80	3.60	6.25	5.31
12A1877	3/4	.41	.91	4.11	7.14	6.07
12A1878	1	.44	2.09	9.29	16.16	13.90

8-32 ZINC PLATED STEEL

Steel Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A1879	3/8	.48	1.07	4.93	8.38	7.12
12A1880	1/2	.55	1.23	5.54	9.64	8.20
12A1881	3/4	.66	1.46	6.60	11.47	9.75
12A1882	1 1/2	.93	2.07	9.02	15.87	13.80
12A1883	2	1.07	2.37	10.45	18.17	15.80

10-32 ZINC PLATED STEEL						
Steel Stock No.	Lgth. Inch.	20 For	100 For	500 For	1000 For	5000 Per M
12A2113	3/8	.50	1.10	4.98	8.66	7.36
12A2114	1/2	.58	1.29	5.83	10.13	8.61
12A2115	3/4	.70	1.55	7.02	12.19	10.36
12A2116	1	.78	1.74	7.67	13.38	11.62

12A2117 2 1.71 3.80 17.16 29.83 25.36						
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12A2118 10-32-1/2 .35 1.23 5.55 9.66 8.21						
12A2119 10-32-3/4 .66 1.46 6.59 11.45 9.73						

Flat Washers						
Stk. No.	Size	20	100	500	1000	5000
12A2827	6/32 X 5/16	2.87	6.37	59.33		
12A2828	8/32 X 7/16	2.92	6.49	60.38		
12A2829	10/32 X 3/8	2.96	6.57	61.32		

BRASS CADMIUM PLATED MOUNTING SPACERS

THREADED FOR 8-32 SCREW						
① Round 1/4" O.D.						
Stk. No.	Lgth.	Each	10 For	100 For	1000 For	5000 For
12A1469	1/4"	.09	.53	4.80		
12A1470	3/8"	.10	.62	5.60		
12A1471	1/2"	.12	.74	6.70		
12A1472	3/4"	.19	1.12	10.20		
12A1473	1"	.21	1.25	11.40		

② 1/4" Hexagonal						
Stk. No.	Lgth.	Each	10 For	100 For	1000 For	5000 For
12A1386	1/4"	.10	.58	5.30		
12A1387	3/8"	.12	.72	6.50		
12A1388	1/2"	.14	.81	7.40		
12A1389	3/4"	.21	1.23	11.20		
12A1390	1"	.24	1.33	12.10		

BRASS ZINC PLATED
Rustproof, Non-Magnetic. Avg. Wt. Pkg. 100, 6 oz.

STEEL ZINC PLATED
Rustproof—greater strength

Stock No.	Size Inches	20 For	100 For	500 For	1000 For	5000 Per M
12A2027	2-56-3/4	64	1.42	6.39	11.11	9.44
12A2028	4-36-1/4	76	1.68	7.59	13.20	11.22
12A2029	6-32-3/4	76	1.68	7.59	13.20	11.22
12A2030	6-32-1/2	90	2.01	9.05	15.73	13.37
12A2031	8-32-1/4	76	1.68	7.59	13.20	11.22
12A2032	10-32-3/4	90	2.01	9.05	15.73	13.37

Stock No.	Size Inches	20 For	100 For	500 For	1000 For	5000 Per M
12A2048	2-56-3/4	42	.94	4.23	7.35	6.25
12A1884	4-40-1/4	42	.94	4.23	7.35	6.25
12A1885	6-32					

KNOBBS AND VARIABLE CAPACITORS

ALCO FLUTED ALUMINUM KNOBS



Solid machined aluminum with fluted sides. Fit 1/4" shafts. 2 Allen hex screws. Natural knobs have black pointer line. Black anodized knobs have white pointer line.

Stock No.	Alco No.	Size	High	Color	1-99 Each	100-249 Each	250-499 Each	500-999 Each
12A2363	K500A	.500	.625	Natural	\$0.50	\$0.45	\$0.43	\$0.41
12A2364	K500B	.500	.625	Black	.50	.45	.43	.41
12A2365	K700A	.750	.625	Natural	.55	.50	.48	.46
12A2366	K700B	.750	.625	Black	.55	.50	.48	.46
12A2367	K900A	.937	.625	Natural	.65	.59	.57	.55
12A2368	K900B	.937	.625	Black	.65	.59	.57	.55
12A2369	K1250A	1.250	.750	Natural	.75	.68	.66	.64
12A2370	K1250B	1.250	.750	Black	.75	.68	.66	.64

ALCO KNURLED ALUMINUM KNOBS



Solid machined aluminum with diamond shaped knurl on side. 2 Allen hex screws. Fit 1/4" shaft. Natural knobs have black pointer line. Black anodized knobs have white pointer line.

Stock No.	Alco No.	Size	High	Color	1-99 Each	100-249 Each	250-499 Each	500-999 Each
12A2371	K0500A	.500	.625	Natural	\$0.60	\$0.54	\$0.52	\$0.50
12A2372	K0500B	.500	.625	Black	.60	.54	.52	.50
12A2373	K0700A	.750	.625	Natural	.65	.59	.57	.55
12A2374	K0700B	.750	.625	Black	.65	.59	.57	.55
12A2375	K0900A	.937	.625	Natural	.80	.72	.70	.68
12A2376	K0900B	.937	.625	Black	.80	.72	.70	.68
12A2377	K01250A	1.250	.750	Natural	.95	.86	.84	.82
12A2378	K01250B	1.250	.750	Black	.95	.86	.84	.82
12A2379	KR-1 Reducer Adapts 1/4" Knob to 1/8" Shaft.				.08	.06	.050	.042

DAVIES MOLDED KNOBS



Dress up knobs for panels and equipment. Precision molded of tough black plastic, gloss finished. All have 1/4" hole and set screw. Figure 1 has spun silver inlay. Figure 4 for dual shaft concentric controls. Has white filled pointer line.

Fig	Stock No.	Type No.	Size	1-99 Each	100-499 Each	500-999 Each	1000 up Ea
1	12A1216	1913	1-1/8" Dx 5/8" H	\$0.60	\$0.45	\$0.42	\$0.30
1	12A1217	1925	1 1/4" Dx 3/4" H	.50	.38	.35	.25
1	12A1218	1830	1 1/2" Dx 7/8" H	.64	.48	.45	.32
1	12A1229	1940	2" Dx 15/16" H	.80	.60	.56	.40
2	12A1222	1910	3/4" Dx 1/2" H	.26	.20	.18	.12
2	12B60	1913D	1-1/8" Dx 5/8" H	.36	.29	.25	.18
2	12A1224	1920	1 1/4" Dx 3/4" H	.32	.24	.22	.16
3	12A1226	1930	1 1/2" Dx 7/8" H	.34	.26	.24	.17
3	12B61	1940D	2" Dx 15/16" H	.54	.41	.38	.27
4	12A1228	0941	3/4" x 1 1/4"	.58	.44	.41	.29
5	12B62	1919	1 1/4" Lg x 5/8" H	.34	.26	.24	.17



Gloss black. Set screw knobs for 1/4" shaft. Fig. 1 has brass insert.

Fig	Stock No.	Davies No.	Size	1-99 Each	100-499 Each	500-999 Each	1000 up Ea
1	12A34	4100	1-1/8" x 5/8" H	\$0.36	\$0.27	\$0.25	\$0.18
1	12A35	4102	1-5/8" x 3/4" H	.44	.31	.31	.22
1	12A36	4103	2-3/8" x 7/8" H	.64	.48	.45	.32
2	12A1227	1400	1 1/2" Dx 7/8" H	.12	.09	.08	.06
3	12A1236	1450	1 1/2" Dx 13/32" H	.12	.09	.08	.06
4	12B433	2110	1-5/8" Lever	.34	.26	.24	.17



Lustrous black molded bakelite with white filled pointer line. - Except 12A44 is Red For 1/4" shaft. * Indicates brass bushing insert. All are set screw type.

Fig	Stock No.	Davies No.	Size	1-99 Each	100-499 Each	500-999 Each	1000 up Ea
1	12A1203	1510	3/4"	\$0.24	\$0.18	\$0.17	\$0.12
1	12B26	1500	1-1/8"	.18	.14	.13	.09
2	12B27	1800	1 1/2"	.24	.18	.17	.12
3	12A919	1610	2 3/32"	.22	.17	.15	.11
4	12A920	1550	1-3/16"	.18	.14	.13	.09
5	12A692	1475	1"	.18	.14	.13	.09
6	12A693	1470	1"	.22	.17	.15	.11
7	12A45	2300	1 1/4"	.14	.11	.10	.07
7	12A44+	2300	1 1/4"	.16	.12	.11	.08
7	12B1033*	2300A	1 1/4"	.22	.17	.15	.11
8	12A43	2350	2"	.24	.18	.17	.12
8	12B1034*	2350A	2"	.32	.24	.22	.16

BLACK CONTROL KNOBS

WITH WHITE POINTER LINE
PLASTIC HOLE WITH SET SCREW

Stock No.	Description	1-9 Each	10-49 Each	50-249 Each
12A2397	1 1/2" Dia. Black—1/4" Shaft. Ohmite 5150	33	28	21
12A2398	1" Dia. Black—1/4" Shaft	33	28	22
12A2399	3/4" Dia. Black—1/4" Shaft. Ohmite 5151	33	28	21

MILLEN VARIABLE CAPACITORS



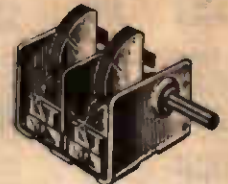
Stearite Insulated double bearing midget capacitor. 1/4" shaft extends 1/2" to the front and 1/4" to the rear for easy ganging. 8-32 tapped front and rear brackets for base mounting or has 3/8" X 32" threaded bushing 5/8" long for single hole panel mount. Air gap .022". semi-circular plates for straight line capacity tuning. Average shipping wt. 8 Oz.

Stock No.	Millen No.	Cap Pld	Max	Min	Shaft length	Net Each
12A2803	19050	58	0.5	0.5	2-13/16"	\$6.24
12A2804	19100	107	0.2	0.2	3"	6.99
12A2805	19140	148	0.7	0.7	3-3/16"	7.47
12A2806	19250	272	1.3	1.3	3 3/4"	8.55
12A2807	19335	339	1.7	1.7	4-1/8"	9.40

ONE, TWO & THREE GANG 365 PFD. PER SECTION

With ball bearing rotors, heavy brass rotor contact springs and 1/4" dia shaft.

Stk. No.	Sec.	Size	Net Each
12A1841	1	1 1/2 x 1-5/16 x 1-7/8"	\$2.86
12A1942	2	2-3/16 x 1-13/16 x 1-5/8"	6.34
12A1943	3	3-3/16 x 1-13/16 x 1-5/8"	7.35



JOHNSON SUB-MIDGETS

Type M. Steatite end plate only 5/8" x 3/4" dia. slotted shaft extending 1/4" from bushing and mounts in 1/4" hole. Rigidly soldered rotor and stator assemblies. Plate spacing .017, rating 750 volt RMS. Avg. wt. 4 oz.



① BUTTERFLY—TYPE M

Stock No.	Mfg. No.	Cap. Pld	Net Each
12A1944	160-205	1.8 5.1	\$1.40
12A1945	160-208	2.2 8	1.60
12A1946	160-211	2.7 10.8	1.70

② SINGLE SECTION—TYPE M

Stock No.	Mfg. No.	Cap. Pld	Net Each
12A1947	160-102	1.5 5.0	\$1.00
12A1948	160-104	1.8 8.7	1.05
12A1949	160-107	2.3 14.2	1.15
12A1950	160-110	2.7 19.6	1.25

JOHNSON TYPE U CAPACITORS

Requires less than 2 square inch mounting area. Screwdriver adjustment. Air gap .010. Voltage rating 650 except 19.3 and higher are 500.



Cap. Max.	P.F. Min.	Stk. No.	Mfg. No.	Each	Stk. No.	Mfg. No.	Each
9.2	1.4	12A2499	189-563-1	\$0.34	12A2506	189-503-5	\$0.64
11.6	1.5	12A2500	189-564-1	.95	12A2507	189-504-5	.66
14.1	1.7	12A2501	189-565-1	.97	12A2508	189-505-5	.68
16.7	1.8	12A2502	189-566-1	.99	12A2509	189-506-5	.70
19.3	2.0	12A2503	189-567-1	1.00	12A2510	189-507-5	.72
21.9	2.2	12A2504	189-568-1	1.02	12A2511	189-508-5	.74
24.5	2.4	12A2505	189-569-1	1.05	12A2512	189-509-5	.76

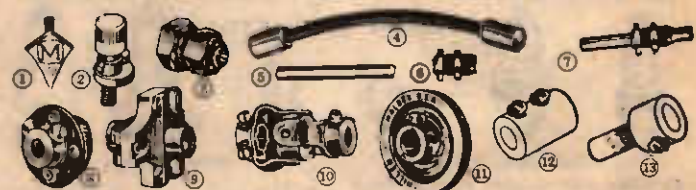
CERAMIC TRIMMERS AND PADDERS

With low loss ceramic base and clear mica dielectric.

No.	ARCO	PFD.	Fig.	1-24	25-99	100 Ea.
12A1951	461	2.7-40	A	\$0.39	\$0.35	\$0.23
12A1952	463	10-180	A	.44	.40	.26
12A1953	464	25-280	A	.53	.47	.32
12A1954	466	75-480	A	.66	.59	.40
12A1955	303	65-340	B	.83	.74	.50
12A1956	306	275-970	B	1.01	.99	.66

Type A: 1/4" x 5/8" Type B: 1/2" x 1 1/4" 12A1956 306 275-970 B 1.01 .99 .66

DIAL ACCESSORIES, 1/4" COUPLINGS, SHAFTS



High quality American made 1/4" shaft accessories. "M" items are Millen; "J" Johnson; "N" National.

Fig.	Stk. No.	Description	Net Ea.	Fig.	Stk. No.	Description	Net Ea.
①	12A1910	M10021 Marker	\$0.40	⑦	12A110	Bearing W/8" Shaft	\$0.85
②	12A1911	M10050 Dial Lock	.79	⑧	12A1361	NTX10 Ins. Cplg.	.96
③	12A1912	M10061 Shaft Lock	.55	⑨	12A1360	J250 Steatite Cplg.	1.70
④	12A911	John. 3" Flex Shaft	.85	⑩	12A1960	M39005 Univ. Joint	.99
⑤	12A912	John. 6" Flex Shaft	1.00	⑪	12A1961	M39016 Hi Volt Cplg.	1.19
⑥	12A913	Brass 1/4x12" Shaft	.59	⑫	12A1184	Br 1/4x1/4" Coupling	.39
⑦	12A7	Ins. 1/4x12" Shaft	.39	⑬	12B1185	Br 1/4x3/8" Coupling	.39
⑧	12A1359	John. Shaft Bearing	.28	⑭	12A1196	Br Extend 1 3/4" Lx 1 1/4"	.49
⑨	12A9	Bearing W/3" Shaft	.60	⑮	12B1197	Br Extend 1 3/4" Lx 1 1/4"	.49

NATIONAL RIGHT-ANGLE DRIVE



National
TYPE RAD

For coupling 1/4" shafts. Zinc housing and brass gears. Overall length 4 1/2". 1/4" shaft extends 2 1/2". Ideal for driving condensers, etc. Wt. 6 oz.
No. 12A1919. Net Each. \$4.80

ELECTRONIC HARDWARE—DATAK TRANSFERS

PROFESSIONAL QUALITY PHENOLIC CASES AND PANELS



FLEA CLIP

IMP CLIP

Matching panels recess mount. Model 220 has 4 tapped 4-36 holes for panel screws. Others have 6-32 tapped brass inserts. Davies except * which are Keystone.

Stock No.	Mfg. No.	Dimensions Inches	1-24 Each	25-99 Each	100 Up Each
5A3040	220	4 X 2 1/4 X 1 1/4	\$0.46	\$0.42	\$0.33
5A3073	230A	5x4 1/2 x1 3/4	.78	.70	.55
5A3041	240B	6 1/4 X 3 3/4 X 2	.88	.78	.61
5A3042	260K	6 1/4 X 5 1/2 X 2 1/4	1.12	1.00	.79
5A3004	*702	8 1/4 X 7 1/4 X 3	2.65	2.50	2.00

② BLACK PHENOLIC PANELS

5A5583	221	Fits 220 Case	.28	.25	.20
5A5587	231	Fits 230 Case	.28	.25	.20
5A5584	241	Fits 240B Case	.54	.49	.38
5A5585	261	Fits 260K Case	.75	.68	.54
5A5506	*2039	Fits 702 Case	.69	.66	.63

③ KEYSTONE ALUMINUM PANELS

5A5500	2044	Fits 220 Case	.50	.45	.39
5A5502	2046	Fits 240B Case	.58	.51	.44
5A5504	2047	Fits 260K Case	.84	.72	.63
5A5507	2048	Fits 702 Case	1.00	.95	.85

④ KEYSTONE PUNCHEO PHENOLIC NATURAL PANELS

5A5501		Fits 220 Case	.44	.40	.31
5A5503		Fits 240B Case	.64	.58	.48
5A5505		Fits 260K Case	.88	.79	.62
5A5508		Fits 702 Case	1.10	.99	.77

12A2309. FLEA CLIP PUSH-IN TERMINALS for above. Package of 100 \$1.75
12A2310. IMP CLIP PUSH-IN TERMINALS for above. Package of 100 \$1.75

DATAK INSTANT LETTERING DRY TRANSFERS

Not a decal... goes on instantly... looks like printing. Transfers dry to practically any surface—metal, wood, glass, plastic, paper. Lettering is clean, crisp and opaque, with no background film. Applies to panels, chassis, meter faces, etc., by rubbing over lettering as it appears on a see-thru backing sheet, giving professional appearance to equipment.



Type used (Shown actual size)

ASTIGMATISM

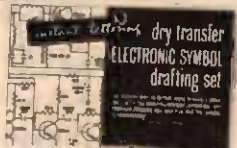
SPECIFY COLOR.

- No. 12M2471. Titles for Electronic Equipment. Contains 22 3 X 5" sheets with hundreds of titles plus one alphabet and one numeral sheet. Specify Black or White \$6.95
- No. 12M2472. Refill Alphabet. 12 sheets 3x5". Specify Black or White \$3.00
- No. 12M2473. Refill Numerals. 12 sheets 3x5". Specify Black or White \$3.00
- No. 12M2474. Terminal & Chassis Marking Kit. Contains 24 3x5" sheets of letters, letter combinations and numerals. Specify Black or White \$5.95
- No. 12A2475. Meter & Dial Marking Kit. Contains 12 4 1/4 x 7 1/4" sheets with patterns, arcs, graduation lines, letters and numerals. Asstd. Black, White and Red \$5.95
- No. 12A2476. Protective Coat. Will not crack or chip, affords complete protection to 180° F. 1 Oz. Bottle with Brush \$1.00
- No. 12A2477. 16 Oz. Glossy Spray \$3.25
- No. 12A2478. 16 Oz. Matte Spray \$3.75

ELECTRONIC SYMBOL DRAFTING KIT

Precision drawn schematic symbols save time and effort. Line widths and symbol sizes fit in with standard military and ASA standards. Contain 40 5x7" sheets of black dry transfer symbols, letters and numerals, plus instruction booklet. Shpg. wt. 1 lb.

No. 12A2479 Complete... \$19.15



JOHNSON INSULATORS

THRU-PANEL TYPE

STAND-OFF TYPE

Furnished with nickel plated brass hardware for mounting in panels up to 1/2" thick. Dimension shown is height above panel. Average weight 12 ozs. Steatite except type 45, Porcelain.

Stk. No.	Type	Fig.	Hgt.	Hdwe.	NET
12A262	40	①	1 1/4"	10-32	\$0.75
12A266	44	①	5/8"	6-32	.45
12A267	45	②	1 3/8"	10-32	1.00

Stk. No.	Type	Fig.	Hgt.	Dia.	Hdwe.	NET
12A271	500	⑤	5/8"	5/8"	6-32	\$0.32
12A272	501	①	1"	3/4"	8-32	.40
12A274	502	①	1 1/2"	1"	8-32	.70
12A276	503	②	1 1/8"	1 1/8"	10-32	1.10

HIGH VOLTAGE GRID CAPS

For TV replacement. With 10" wire leads.

No. 12A2352	3/8" Cap.	Choice	
No. 12A2353	1/2" Cap.	Each	.49c



SPIRAL CUT CABLE WRAP

Natural polyethylene for cabling and harness wiring. Allows taps to be pulled at any point, retains original form and may be re-used if desired. Temperature range: -105° to +215°F. Natural color.



Stock No.	O.D.	Max Cable Dia.	Per Foot	100 Ft.	1000 Ft.
2A8038	1/2"	1/2"	\$.05	\$3.25	\$ 27.00
2A8039	3/8"	3/8"	.07	5.40	45.00
2A8040	3/4"	3/4"	.11	8.30	75.00
2A8041	1/2"	4"	.14	12.00	112.00

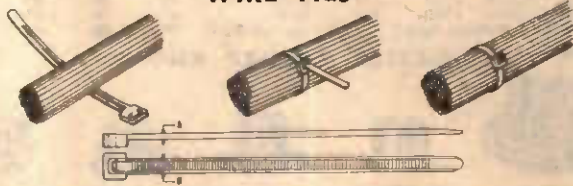
CONTINUOUS STRIP GROMMET

Clear Polyethylene U channel can be cut to desired length and inserted into any shape or configuration of hole. Grips surfaces snugly, won't jar loose. Gauge below given for Ferrous Material Std. U.S. Gauge.



Stk. No.	Size	Dimensions	Gauge	50 Ft. Roll	100 Ft. Roll
12M2626	1	.030" .010" .100"	24 & smaller	\$3.30	\$5.14
12M2627	2	.070" .020" .125"	22 to 16	3.95	6.04
12M2628	3	.120" .060" .175"	15 to 12	4.75	7.30
12M2629	4	.180" .109" .240"	11 to 8	6.15	9.24
12M2630	5	.255" .156" .355"	3/4" to 1/2"	8.99	12.32

WIRE TIES



Self Locking—All Nylon—No Metal Parts—Permanently ties wire bundles, must be cut off for removal—natural color.

Stock No.	Bundle Dia.	A	B	10 For	100 For	1000 For
12A2632	1/8" to 3/4"	.050	.135	\$0.45	\$2.22	\$18.80
12A2633	1/8" to 1 1/2"	.050	.190	.70	3.02	24.20
12A2634	1/8" to 1 3/4"	.055	.190	.70	3.52	28.20
12A2635	1/8" to 3"	.055	.190	1.50	7.73	61.80
12A2636	1/8" to 4"	.055	.190	1.75	8.82	70.60

GROMMETS, PLUGS AND BUMPERS



Stock No.	G-C	① SNAP HOLE PLUGS — NICKEL PLATED	500	1000
12A1448	1711A	Fits Hole Dia.	For	For
12A1335	1711	1/4"	\$0.05	\$2.84
12A1336	1712	3/8"	.06	3.22
12A1337	1713	1/2"	.07	3.91
12A1338	1714	3/4"	.08	4.20
12A1343	1714A	7/8"	.09	4.34
12A1344	1715A	1"	.10	5.88
12A1339	1715B	1 1/8"	.14	7.52
12A1340	1715	1 1/4"	.15	8.20

Stk. No.	Cinch	② SCREEN PLUG	100-249	250-499
12B200	41V	Bright zinc plate. Screen Ventilator plug snaps in 1" diameter hole.	25c	18c

Stock No.	G-C	Mtg. Hole	I.O.	10	100	500	1000	5000
12A1759	7030	1/4"	3/8"	\$0.23	\$1.16	\$ 4.86	\$ 9.38	\$ 8.44
12A1760	7032	3/8"	3/4"	.26	1.28	6.36	11.55	10.40
12A1761	7034	3/8"	1/2"	.34	1.70	6.91	12.56	11.30
12A1762	7036	3/8"	3/8"	.37	1.86	7.45	13.53	12.18
12A1763	7038	5/8"	1/2"	.58	2.91	11.80	21.41	19.27

Stk. No.	G-C	O.D.	Hole	High	10	100	500	1000
12A1497	1041-2	1/4"	1/8"	\$0.28	\$1.42	\$ 6.24	\$11.34	\$10.21
12A1483	1041	3/8"	3/8"	.32	1.62	7.08	12.87	11.59
12A1494	1042	3/8"	1/4"	.43	2.12	9.32	16.94	15.25
12A1485	1043	1/2"	3/8"	.48	2.42	10.63	19.31	17.38
12A1486	1043-1	3/8"	1/2"	.72	3.65	16.09	29.25	26.33

Stock No.	G-C	O.D.	Hole	High	10	100	500	1000
12A1449	7596	3/8"	3/8"	\$0.35	\$1.81	\$7.93	\$14.42	\$14.42
12A1450	7597	1/2"	1/4"	.050	2.70	11.86	21.56	
12A1451	7598	5/8"	3/8"	.80	4.34	19.09	34.70	

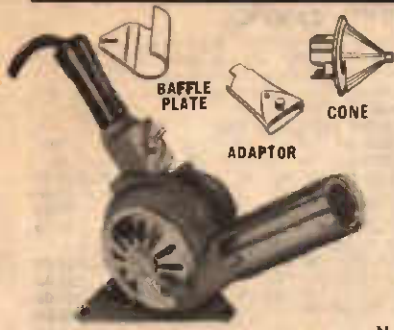
Stock No.	G-C	O.D.	Takes Screw	High	10	100	500	1000
12A1447	1075B	3/8"	#4 or 6	3/4"	\$0.33	\$1.68	\$ 7.39	\$13.43
12A1444		5/8"	#6 or 8	3/4"	.50	2.98	13.12	23.86

GRID & PLATE CAPS

12A1349	3/8" National	1	10c
12A1356	3/8" Ins. Millen	3	49c
12A2354	3/8" Ins. Millen	3	49c
12A1357	Comb. 3/8-1/4"	4	25c



HEAT GUNS & ALPHA TUBING



MASTER APPLIANCE HEAT GUNS

Handiest, quickest, safest way to get instant heat without the danger of open flame. Preadjusted temperature is ideal for heat shrink tubing, precision drying, etc. 3 position switch for Hot, Cold or Off. Quiet turbo-fan cools motor and delivers air stream. Double jacketed heater housing, die cast aluminum blower housing. Knurled knob adjusts temperature within ranges shown. 8 ft. neoprene 3 wire cord and plug, with stand for bench use if desired. For 115 VAC. Shipping weight 5 lbs.

Stock No.	Model	Temp. °F.	Amps	Nozzle Length	Overall Length	Each	3 Each
37A9111	HC201	200/300	5	3"	10"	\$44.30	\$39.87
37A9112	HC301	300/500	12	3"	10"	44.30	39.87
37A9089	HC501	500/750	14	4"	11"	49.90	44.81
No. 37A9090. Model 100. Nozzle Adaptor to adapt baffle plate to gun. Each \$2.95 3 Each \$2.65							
No. 37A9091. Model 145. Baffle Plate for tubing up to 3/4" O.D. Each \$2.75 3 Each \$2.48							
No. 37A9092. Model 150. Baffle Plate for tubing up to 1 1/4" O.D. Each \$2.95 3 Each \$2.65							
No. 37A9125. Model A-200. Cone Attachment focuses heat on small target, for vinyl repairs, etc. Each \$12.95 3 Each \$11.65							
No. 37A9126. Model A-200. Steel carrying case for all master heat guns and nozzles, etc. Each \$12.95 3 Each \$11.65							

MASTER MITE HEAT GUN

Compact, light weight 8-7/8" long in a tough, ultra high impact housing with indicator light for on-off indication. Stands vertical or at a 45° angle on workbench if desired. 3 position switch. Hot-cool-off, and 3 wire cord and plug. Non-adjustable, the Mite uses optional nozzles for different heat ranges. Supplied with silver nozzle rated 850°F, 475 watts, recommended for PVC, FEP, Neoprene and other most common shrink materials. Complete with deflector adaptor baffle. Shpg. wt 2 lbs.



No. 37A9120. Model 10008 with Silver nozzle and baffle. Each \$34.95 3 Each \$31.45

Stk. No.	Model No.	Color	Temp.	Watts	For	Each	3 Each
37A9121	20012	Blue	500°F	325	Mylar	\$3.95	\$3.55
37A9122	20013	Silver	650°F	475	PVC, FEP	3.95	3.55
37A9123	20014	Black	800°F	525	TFE, Teflon	3.95	3.55
37A9124	40061	Pinpoint Nozzle Adaptor				2.60	2.25

UNGAR PRINCESS HEAT GUN

Specially designed for electronics assembly, complete with 4 baffles for all heat shrink materials. Air stream at nozzle is only 3/8 inch diameter. Case designed for gun to stand on workbench if desired. Separate On-Off and Hot-Cold switches. Molded polyester glass case, with 2 wire cord and plug. Rated 250 watts, 120 VAC, 750° to 800° nozzle air flow temperature. Shpg. wt. 2 lbs.



No. 37A9115. Model 6955 Each \$39.95 3 Each \$35.95

HEAT SHRINKABLE COVERS

Irradiated Polyolefin covers and seals splices, connectors, coax splice joints, wherever complete protection is needed. Seal adheres to aluminum, copper, plastic insulation etc., forming a waterproof, encapsulated, insulated and abrasion resistant joint. For underground or overhead outside exposure as well as for indoor use from -65°C to +130°C. Rated 600 volts, black color.



Stock No.	Mfg. No.	Drig. ID	After Shrink	Length Inches	1-100 Each	101-249 Each	250+ up
2A8043	SPC400	.4"	.15"	8	\$.66	\$.60	\$.54
2A8044	SPC750	.75"	.22"	8	.75	.68	.63
2A8045	SPC800	.8"	.25"	12	1.27	1.15	1.04
2A8046	SPC110	1.1"	.375"	12	1.38	1.26	1.14
2A8047	SPC130	1.3"	.65"	12	1.60	1.44	1.30
2A8048	SPC150	1.5"	.5"	14	2.08	1.87	1.68
2A8049	SPC180	1.8"	.7"	14	2.31	2.07	1.86

2A8052 SK-1 Waterproofing and insulating kit includes 4 6" pcs. SPC750, 4 8" pcs. SPC110, 2 12" pcs. SPC150, 1 12" pc. SPC180, and 1 roll TYT100. Kit Each \$14.95

HEAT SHRINKABLE ELECTRICAL TAPE

Similar to covers above but in 3/4" wide tape, shrinks about 30% in length. Seals, waterproofs, insulates, and cannot be peeled off. Mfg. No. TYT100.



No. 2A8050, 10 foot roll.	Each	\$2.50	3 Each	\$2.25
No. 2A8051, 54 foot roll.	Each	\$7.80	3 Each	\$6.50

ALPHA PVC-105 PLASTIC TUBING

For all electronic, electrical and aircraft applications. Conforms to MIL-1-6310, ASTM-D876 and D922 specs. High dielectric strength, non-flammable and resistant to oils and corrosion. Flexible from -20°C to +105°C. Stocked in clear only. Available on special order in Black, White, Yellow, Red, Green colors. Minimum special order amount \$25.00. Wt. of Size 1 is 1.2 lb.



Stock No.	Size	I.D.	25' For	50' For	100' For	250' For	500' For	1000' For
2A8002	24	.022	\$0.81		\$2.43		\$8.80	\$13.00
2A8003	22	.027	.81		2.44		8.85	13.10
2A8004	20	.034	.83		2.49		9.05	13.50
2A8005	19	.038	.85		2.55		9.30	13.80
2A8006	18	.042	.86		2.58		9.40	13.80
2A8007	17	.047	.87		2.61		9.55	14.00
2A8008	16	.053	.91		2.72		10.00	14.60
2A8010	14	.066	.96		2.89		9.85	*
2A8011	13	.076	.98		2.94		10.20	*
2A8012	12	.085	1.02		3.07		10.70	*
2A8013	11	.095	1.05		3.15		11.05	*
2A8014	10	.106	1.09		3.27		11.55	*
2A8015	9	.118	1.42		4.27		13.70	*
2A8016	8	.133	1.52		4.57		16.95	*
2A8017	7	.148	1.61		4.84		18.10	*
2A8018	6	.166	1.73		5.19		19.55	*
2A8019	5	.186	1.86		5.58		21.15	*
2A8020	4	.208	2.00		6.00	13.75	*	*
2A8021	3	.234	2.13		6.38	14.70	*	*
2A8022	2	.263	2.30		6.91	16.03	*	*
2A8023	1	.294	2.43		7.42	17.32	*	*
2A8024	3/4"	.312	2.48		9.42	22.30	*	*
2A8025	0	.330	2.66		7.98	18.70	*	*
2A8026	3/8"	.375	2.83		10.81	25.78	*	*
2A8027	7/16"	.438	3.15		11.58	*	*	*
2A8028	1/2"	.500	3.44		12.77	*	*	*
2A8029	5/8"	.562	4.50		17.00	*	*	*
2A8030	3/4"	.625	4.85		18.38	*	*	*
2A8031	7/8"	.750	6.95	12.67	*	*	*	*
2A8032	1"	.875	7.37	14.25	*	*	*	*

ALPHA HEAT SHRINK TUBING FIT-221 IRRADIATED POLYEFIN TUBING

Application of 225° to 255° F. heat shrinks tubing 50% in diameter, only 5% in length within 7 seconds. Use heat guns at left for fastest shrinkage. Insulates connectors, splices, terminal lugs, tool handles. Excellent resistance to oil, solvent and flame. Stocked in black color. Conforms to MIL-1-23053/5. 4 Ft. standard factory length. We cut to 1 Ft. length for shipping unless you specify 4 Ft.

Specify Stock No. 2M8001 and Size when ordering

Size	Original I.D.	I.D. After Heating	Wall Thickness	Per Foot	Net per 20 Ft.	100 Ft.
3/8"	.046	.023	.016	\$0.19	\$ 3.40	\$15.45
1/2"	.063	.031	.017	.20	3.60	16.35
5/8"	.093	.046	.020	.23	4.20	18.90
3/4"	.125	.062	.020	.24	4.40	20.05
7/8"	.187	.093	.020	.30	5.50	24.50
1"	.250	.125	.025	.37	6.80	30.90
1 1/8"	.375	.187	.025	.45	7.50	34.25
1 1/4"	.500	.250	.025	.51	7.75	*
1 1/2"	.750	.375	.030	.62	10.55	*
1 3/4"	1.00	.500	.035	.90	14.60	*

FIT-105 POLYVINYLCHLORIDE TUBING

Requires higher heat (325°F) and shrinks up to 10% in length compared to FIT-221. Continuous lengths allows use for longer cable jackets, etc. Black color. Conforms to MIL 1-23053/2.

Specify Stock No. 2M8042 and size when ordering

Size	Original ID	ID After Heating	Wall Thickness	25 Ft.	100 Ft.	200 Ft.	500 Ft.
3/64"	.048	.023	.020	\$2.84	\$11.34	\$—	\$56.70
1/16"	.062	.031	.020	3.05	12.08	—	60.38
3/32"	.093	.046	.020	3.47	13.81	27.62	—
1/8"	.125	.062	.025	3.68	14.60	29.19	—
3/16"	.187	.093	.025	4.46	17.85	35.70	—
1/4"	.250	.125	.025	5.87	22.58	45.15	—
3/8"	.375	.187	.030	6.25	24.87	49.77	—
1/2"	.500	.250	.030	7.09	28.30	—	—
5/8"	.775	.375	.035	9.45	37.85	—	—
3/4"	1.000	.500	.040	13.65	54.50	—	—

6-INCH FIT-221 SHRINK TUBING ASSORTMENTS

Assorted colors, red, black, white, yellow, blue and clear of the same shrink tubing described above. Each length identified as to size.

Stock No.	Alpha No.	Tubing Size Range	Lengths in Package	Per Package
2A8035	FIT221 MS-1	3/8" thru 3/4"	30	\$4.84
2A8036	FIT221 MS-2	1/2" thru 3/4"	16	9.67
2A8037	FIT221 MS-3	1" thru 4"	10	8.45

No. 16A1152 Catalog of Alpha Tubing and Accessories FREE on Request. * REQUEST QUANTITY PRICES FROM OUR INDUSTRIAL DEPARTMENT

PRESSURE SENSITIVE LABELS

Codes wires, leads, circuits, relays, and other parts fast and cheap. Easy to use, they stick-quick without moistening. No. 2A8033. Card of numbers 1 to 33, 6 of each.



No. 2A8034. Card of Letters—A to E, 7 strips of each letter, 6 letters per strip.

Choice Per Card, Each	40c	Lots of 25 Each	32c	Lots of 100 Each	30c
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BELDEN WIRE AND CABLE

VINYL AND TEFLON HOOK-UP WIRE MIL-W-76 TYPE MW VINYL —1000 V. 80° C

Tinned copper conductors. Specify color: Brown, Red, Orange, Yellow, Green, Light Blue, Violet, Gray, White or Black.
*Stocked in Red, Green, White and Black only.

Stock No.	Belden No.	AWG & Stranding	O.D. Inch	Insulation Thickness	Wt. 1000'	25 Ft. Length	100 Ft. Length	1000 Ft. Length
2M13	8525	24 (7X32)	.058	.017	3	\$.072	\$1.44	\$9.30
2M14	8524	22 (7X30)	.064	.017	4	-----	1.61	10.95
2M32	8523	20 (10X30)	.070	.017	5	-----	1.85	12.45
2M7	8522	18 (16X30)	.080	.017	8	-----	2.25	16.75
2M15	8521	16 (16X30)	.098	.019	12	-----	3.09	24.00
2M67*	8520	14 (41X30)	.111	.02	18	-----	4.35	37.50
2M68*	8527	12 (65X30)	.130	.02	26	-----	6.80	54.00
2M69*	8538	24 (Solid)	.054	.017	3	-----	1.38	11.00
2M34	8530	22 (Solid)	.059	.017	4	-----	1.35	8.55
2M2	8529	20 (Solid)	.066	.017	5	-----	1.62	10.80
2M36	8528	18 (Solid)	.074	.017	7	-----	2.07	14.70

MIL-W-16878 TYPE B VINYL 600 V. 105° C

Tinned copper stranded insulation thickness .01. Colors: Solid colors as above and white striped with black, red, green, yellow, blue, brown, orange, gray or violet. Please specify color.

Stock No.	Belden No.	AWG & Stranding	O.D. Inch	Wt. 1M	Solid Colors		Striped Colors	
					100 Ft.	1000 Ft.	100 Ft.	1000 Ft.
2M151	8500	16 (19X29)	.077	10	\$2.76	\$21.60	\$2.88	\$22.75
2M152	8501	18 (7X26)	.068	8	2.13	16.20	2.25	17.35
2M153	8502	20 (7X28)	.058	5	1.95	12.75	2.07	13.90
2M154	8503	22 (7X30)	.050	4	1.61	10.60	1.73	11.70
2M155	8504	24 (7X32)	.044	3	1.47	9.70	1.59	10.85
2M400	8505	26 (7X34)	.039	2	1.47	10.40	1.59	10.85
2M492	8597	28 (7X36)	.035	1	1.47	9.45	1.59	10.85
2M491	8598	30 (7X38)	.032	1	1.50	10.35	1.59	10.85
2M490	8599	32 (7X40)	.029	1	1.80	13.20	1.59	10.85

TYPE E-MIL-W-16878 TEFLON 600 V. 200° C

High temperature wire with superior long-life insulation. Concentrically stranded silver coated copper conductor. Insulation thickness .010". Specify Color: Brown, Red, Orange, Yellow, Green, Light Blue, Gray, White or Black.

Stock No.	Belden No.	AWG & Stranding	O.D. Inch	Wt. 1000 Ft.	100		1000	
					1000 Ft.	1000 Ft.	1000 Ft.	1000 Ft.
2M409	83000	30 (7X38)	.033	1	\$4.50	\$13.43	\$25.35	
2M410	83001	28 (7X36)	.036	2	4.75	14.10	26.70	
2M411	83002	26 (7X34)	.041	2	5.10	15.95	30.40	
2M412	83003	24 (19X36)	.046	3	6.25	20.40	40.90	
2M413	83004	24 (7X32)	.045	3	5.40	16.80	32.10	
2M414	83005	22 (7X30)	.051	4	6.25	20.48	39.45	
2M415	83006	22 (19X34)	.052	4	6.85	22.95	44.40	
2M416	83007	20 (19X32)	.060	6	7.90	27.30	53.10	

PRIMARY WIRE — MARINE AND AUTO

S.A.E. TYPE G.P.T.

For high current with minimum voltage drop for mobile electrical systems. Vinyl insulated to withstand heat, oil, abrasion.

Stock No.	Belden No.	AWG & Stranding	O.D. Inch	Color	Wt.	
					100 Ft.	1000 Ft.
2B127	8685	16 (19X29)	.102	Black	1	\$0.93
2B126	8684	14 (19X27)	.117	Green	2	1.23
2B129	8683	12 (19X25)	.142	Red	3	1.72
2C130	8682	10 (19X23)	.175	White	4	2.44
2C132	8681	8 (19X21)	.219	Chrome	7	4.96

HI-FI CONNECTING CABLE

Belden 8421. Size 25 (7X33) 3 strands tinned copper and 4 tinned Copperweld, cellular Polyethylene insulated, tinned copper spiral wrapped shield, chrome vinyl jacket. 180" O.D. Wt. 100' 2 lbs. 2A168. 25 Ft. \$2.01 100 Ft. \$8.00.

SHIELDED Belden 8882

Conductor is size 18 (16X30) gauge tinned copper, black vinyl insulated, tinned copper braid shield overall. Ideal for lead-in or hookup. 105" O.D. Wt. 100' 2 lbs. 2A137. 25 Ft. \$1.80 100 Ft. \$5.40 1000 Ft. \$47.10

TEST PROD WIRE

Extremely flexible high voltage wire. Conductors are tinned copper stranded cotton wrap and rubber insulation overall. 8899 stocked in red, black, green and yellow, others stocked in red and black only. Specify Color.

Stock No.	Belden No.	Cond.	Size	O.D.	Brkdw. Vltg.	Wrkg. Vltg.	Wt. Per 100 Ft.	25		100	
								100 Ft.	1000 Ft.	100 Ft.	1000 Ft.
2M64	8899	18 (65X36)	.144	20 KV	5 KV	2 Lbs.	\$1.38	\$4.41	\$16.20		
2M9893	8898	18 (65X36)	.230	29 KV	10 KV	4 Lbs.	2.28	5.97	25.00		
2M80	8890	24 (45X40)	.066	10 KV	1 KV	1/2 Lb.	1.14	2.85	12.00		

2A421. 7 Ft. Each of Red and Black 8899 above. 95c

HIGH VOLTAGE CRT LEAD

For replacement anode lead and high voltage experimental projects. Tinned copper, polyethylene insulated. Red vinyl jacket overall.

Stock No.	Belden No.	AWG & Stranding	O.D.	Working Voltage	Breakdown Voltage	25		100	
						100 Ft.	1000 Ft.	100 Ft.	1000 Ft.
2A261	8868	22 (7X30)	.150	25,000	50,000	\$1.44	\$3.63		
2A9965	8866	18 (16X30)	.208	40,000	110,000	2.31	6.53		

SOUND SYSTEM, ALARM OR SPEAKER EXTENSION

Solid conductor vinyl insulated. 8492 is brown with 1 conductor tinned. 8483 is coded gray, brown, tan.

Stock No.	Belden No.	Size	Cond.	O.D.	Wt. Per 100'	25		100	
						100 Ft.	1000 Ft.	100 Ft.	1000 Ft.
2A9889	8492	19	2	.17	1 1/2 Lbs.	\$1.43	\$3.24	\$25.95	
2A9890	8483	19	3	.132	2 Lbs.	1.72	3.90	31.50	

INDOOR ANTENNA WIRE

Belden 8014. Size 25 (13 X 36) stranded tinned copper. .010 wall of chrome vinyl plastic insulation. O.D. .044".

Stock No.	2A1.	25 Ft.	80c Ft.	100 Ft.	\$1.50 Ft.	500 Ft.	\$4.50
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MICROPHONE CABLES

Designed to withstand the flexing and normal abuse of studio, lab and home usage. Plastic jacket cables have polyethylene insulated conductors, rubber jacket cables have rubber insulated conductors.



CHROME VINYL PLASTIC JACKET OVERALL

Stock No.	Belden No.	Cond.	O.D.	Use	AWG & Stranding	Cap. Per Ft.	Lbs. 100'	25 Ft.	100 Ft.	1000 Ft.
2A9906	8401	1	.200	Hi Imp.	25 (7X33)	25 Pf.	3	\$1.92	\$6.30	\$52.80
2A9907	8411	1	.144	Lapel Mike	25 (7X33)	37 Pf.	2	1.65	4.95	41.80
2A9908	8422	2	.231	Low Imp.	22 (16X34)	32 Pf.	4	2.76	8.95	78.80
2A9936	8404	4	.255	Low Imp.	20 (26X34)	40 Pf.	6	4.48	13.65	124.60

BLACK RUBBER JACKET OVERALL

Stock No.	Belden No.	Cond.	O.D.	Use	AWG & Stranding	Cap. Per Ft.	Lbs. 100'	25 Ft.	100 Ft.	1000 Ft.
2A9894	8410	1	.245	Hi Imp.	25 (7X33)	33 Pf.	4	3.60	11.90	109.80
2A9896	8412	2	.268	Low Imp.	20 (26X34)	68 Pf.	5	3.87	13.35	122.40
2A9908	8423	3	.277	Low Imp.	20 (26X34)	85 Pf.	6	4.50	15.00	141.00
2A9910	8424	4	.295	Low Imp.	20 (26X34)	95 Pf.	7	5.01	16.70	157.50

HEAVY DUTY HYPALON JACKET MIKE CABLES



Especially designed for studio applications. Highly resistant to heat, impact, abrasion. Extra resistance to sunlight, ozone, water, oil and chemicals, makes it suitable for outdoor applications. Brown color DuPont Hypalon jacket blends readily with backgrounds. Useful for shielded power cables up to 600V.

Stock No.	Belden No.	Cond.	O.D.	AWG & Stranding	Cap. Per Ft.	Lbs. 100'	25 Ft.	100 Ft.	250 Ft.
2A9969	8402	2	.268	20 (26X34)	68 Pf.	6	\$0.17	\$14.40	\$34.35
2A423	8408	2	.385	16 (65X34)	56 Pf.	11	.29	24.75	60.00

BELDEN RETRACTILE (COILED) MIKE CORDS

BLACK NEOPRENE JACKET WITH RUBBER INSULATION



SINGLE CONDUCTOR with spiral tinned copper shield. Size 24. No. 8499 stranded (45 X 40). No. 8605 (18 X 36). Dia. .160". Wt. 1/2 lb. No. 298247. Belden 8499, 4 ft. retracts to 7 1/2". Each \$1.20 No. 29A3051. Belden 8605, 12 ft. retracts to 21 1/2". Each \$1.80

3 CONDUCTOR with Beldfoil shield with drain wire on one conductor. Size 23 (21 X 36) stranded Dia. .250". Wt. 1/2 lb. No. 298249. Belden 8497, 6 ft. retracts to 11 1/2". Each \$1.77 50 Ea. \$1.50 No. 29A3052. Belden 9417, 15 ft. retracts to 30". Each \$3.60 15 Ea. \$3.10

4 CONDUCTOR unshielded. Size 23 (21 X 36) stranded. Dia. .250". Wt. 1/2 lb. No. 298251. Belden 8415, 6 ft. retracts to 11 1/2". Each \$1.64. 50 Ea. \$1.48 No. 29A3053. Belden 9415, 15 ft. retracts to 30". Each \$3.45 15 Ea. \$3.03

BELDEN RETRACTILE (COILED) TELEPHONE CORDS

Spade terminals each end, strain relief one end. Vinyl insulated. Black vinyl jacket. Size 23 (21X36) stranded. Unshielded. Length—4 1/2 ft., retracts to 10 inches. Wt. 1/2 lb.

2A401. Belden 8495. 3 Conductor. Each \$1.99

BELDEN 2-WIRE SPEAKER & INTERCOM CABLE



Stranded copper parallel conductor, coded, 1-tinned, 1-copper. Zip apart vinyl insulation.

No. 2M19. Belden 8782. Size 24 (7X32). .058 x .115 O.D. Wt. per 1000 ft. 6 lbs. Stocked in Chrome, Sand, White and Clear—Specify Choice. 25 Ft. For \$6. 100 Ft. \$1.89 1000 Ft. \$12.60

No. 2A16. Belden 8649. Size 20 (7X28). .073 x .146 O.D. Wt. per 1000 ft. 11 lbs. Stocked in Chrome and Clear—Specify Choice. 25 Ft. For \$1.30 100 Ft. \$2.88 1000 Ft. \$21.00

2 CONDUCTOR UNSHIELDED AUDIO CABLE

Stranded, color coded and cabled. Ideal for most audio or speaker installations. Vinyl insulated with chrome vinyl jacket overall.

Stk. No.	Belden No.	AWG & Stranding	O.D.	Wt. 100'	Per Ft.	100 Ft.	1000 Ft.
2A9930	8205	20 (10X30)	.190	2	\$0.05	\$3.83	\$28.20
2A9931	8461	18 (7X26)	.226	3 lbs.	.06	5.07	41.70
2A9932	8471	16 (19X29)	.256	4 lbs.	.08	6.80	56.70

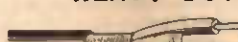
BELDEN PARALLEL LAMP CORD



Two flexible stranded 18 (41X34) copper conductors. Brown color. U.L. listed. Wt. 3 lbs. per 100'. Maximum spool size 250 ft.

Stk. No.	Belden No.	AWG & Stranding	O.D.	25'	100'	250'	1000'
2A28	18115	Rubber 18 SP-1(41X34)	.110x.213	\$1.61	\$4.82	\$10.78	\$40.15
2A408	18122	Plastic 18 SPT-1(41X34)	.110x.207	1.18	3.55	7.94	29.55

HEAVY DUTY PORTABLE RUBBER CABLE



For extra hard use such as portable tools, battery chargers and heavy equipment when up to 300 volts are required.

Stranded copper conductors wrapped and color coded with rubber insulation. Black rubber jacket overall. UL listed.

Stock No.	Belden No.	AWG & Stranding	No. of Cond.	Type	O.D.	Lbs. 100'	25 Ft.	100 Ft.	250 Ft.
2A26	8452	18 (41X34)	2	"SV"	.245	4	\$2.46	\$7.35	\$17.45
2A9964	8453	18 (41X34)	3	"SV"	.265	5	2.97	9.90	24.75
2A9966	8479	14 (41X30)	3	"SV"	.380	10	5.00	16.65	40.80
2A27	8472	16 (65X34)	2	"SJ"	.325	7	3.18	11.10	26.70
2A9911	8454	18 (41X34)	4	"SV"	.265	5	3.43	11.45	28.62
2A91	8455	#18(41X34) and 3 #20(26X34)	2	"SV"	.280	5	3.42	11.40	28.50

8-CONDUCTOR POWER CABLE



BELDEN WIRE AND CABLE

BELDFOIL 100% SHIELDED CABLES

Beldfoil shielding has superior low noise characteristics at greatly reduced cost. Shielding is continuous sheath of Mylar backed aluminum foil with ground drain wire for each shield. Superior flexibility and more continuous shielding when flexed. Chrome vinyl jacket overall. No. 8417 has 3 strands tinned copper and 4 tinned copperweid, double beldfoil shield. Others, stranded copper cond.

		SINGLE CONDUCTOR						
Stock No.	Belden No.	Size	O.D.	Wt. 100'	Per Ft.	100 Ft.	500 Ft.	
2A9973	9452*	24(19X36)	.135	1	\$0.06	\$4.95	\$20.95	
2A234	8417	25(7X33)	.140	1	.10	5.03	21.90	
		TWO CONDUCTORS						
2A9941	8761	22(7X30)	.167	2	.05	4.03	17.55	
2A9942	8762	20(7X28)	.196	3	.07	5.33	22.10	
2A9943	8760	18(16X30)	.222	3	.08	6.42	26.60	
2A238	8719	16(19X29)	.274	5	.10	8.93	39.30	
2A9944	8720	14(19X27)	.340	6	.15	13.78	99.65	

		THREE CONDUCTORS						
Stock No.	Belden No.	Size	O.D.	Wt. 100'	Per Ft.	100 Ft.	500 Ft.	
2A9945	8771	22(7X30)	.175	2	.07	5.39	22.15	
2A9946	8772	20(7X28)	.200	3	.08	8.05	27.90	
2A9947	8770	18(16X30)	.236	4	.10	8.52	35.50	

		PAIRED CABLE—STRANDED CONDUCTORS						
Stock No.	Belden No.	Pr.	Size	O.D.	Wt. 100'	Per Ft.	100 Ft.	500 Ft.
2A9954	8723	2	22(7X30)	.165	2	.08	6.90	30.60
2A9925	8777	3	22(7X30)	.270	6	.15	12.85	60.80
2A9955	8725	4	20(7X28)	.360	8	.32	30.52	128.75
2A9956	8778	6	22(7X30)	.394	9	.31	26.10	127.50

		PAIRED CABLE—SOLID CONDUCTORS						
Stock No.	Belden No.	Pr.	Size	O.D.	Wt. 100'	Per Ft.	100 Ft.	500 Ft.
2A9957	*8640	1	28 Solid	.090	1	.04	3.11	14.40
2A253	*8642	3	28 Solid	.140	1	.10	8.72	40.70
2A9958	8767	3	22 Solid	.279	5	.14	11.40	52.20
2A9959	8768	6	22 Solid	.394	9	.27	23.25	109.10
2A9960	8764	9	22 Solid	.440	14	.37	31.80	154.50
2A9961	8765	11	22 Solid	.485	14	.45	38.25	184.50

		TWO CONDUCTOR MINIATURE AUDIO CABLE						
Stock No.	Belden No.	Pr.	Size	O.D.	Wt. 100'	Per Ft.	100 Ft.	500 Ft.
2A9962	8450		22 Solid	.118	2	.08	4.50	16.70
2A9920	8451		22(7X30)	.135	2	.08	4.74	19.50

DUAL CHANNEL AUDIO CABLE

Individual shielded conductors for language Labs, etc. Size 25 (7X33) stranded color coded vinyl insulated, with spiral wrapped tinned copper shields, chrome vinyl zip apart jacket. O.D. .106X.213. No. 2A38. Belden 8416. Wt. 100' 2 lbs. 25 Ft. \$2.16 100 Ft. \$7.05 250 Ft. \$16.28

SHIELDED SOUND CABLES

2 Conductor, spiral shield—Size 18 (7X26), tinned copper stranded, copper spiral wrapped shield, chrome vinyl jacket. Recommended for long cable runs. .231 O.D. 2A9921 Belden 8790. Wt. 100' 4 lbs. Per Ft. .9c 100 Ft. \$7.65 1000 Ft. \$66.00

Tinned copper size 22 (7X30) stranded conductors, vinyl plastic insulated and color coded chrome vinyl jacket overall. 8734 (illus.) has tinned copper shield over one conductor only. 8735 has tinned copper braid shield over entire cable. 8737 has spiral wrapped shield over entire cable.

Stock No.	Belden No.	No. Cond.	O.D.	Wt. 100'	Per Ft.	100 Ft.	1000 Ft.
2A9977	8734	3	.194	3	\$0.08	\$8.15	\$51.50
2A9976	8735	3	.199	3	-.09	6.75	\$7.80
2A86	8737	2	.170	2	.06	4.80	42.50

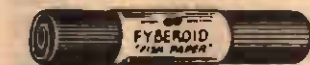
BROADCAST AUDIO CABLES

2 solid conductors size 22 with vinyl jacket overall. *Indicates drain wire.

Stock No.	Belden No.	Color	Shield	O.D.	Wt. 100 Ft.	Per Ft.	100 Ft.	1000 Ft.
2A9891	*8437	Black	Braid	.200	3 lbs.	\$0.07	\$6.58	\$54.80
2A9898	8739	Chrome	Spiral Wrap	.160	2 lbs.	.06	4.56	38.70

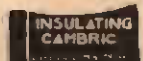
SMALL DIAMETER FLEXIBLE WIRES

FOR PHONO ARMS, PIGTAIL LEADS, ETC. Wt. 100 Ft. 1 Lb.
Shielded Single Conductor #24 (16X36). O.D. .095". brown cotton braid overall. No. 2A103. Belden 8431. 10 Ft. .98c 25 Ft. \$1.65 100 Ft. \$5.25
Shielded 3-Conductor #32 (7X40). O.D. .067". No. 2A82. Belden 8419. 10 Ft. \$1.17 25 Ft. \$2.07 100 Ft. \$7.13
Shielded 4-Conductor #32 (7X40). O.D. .072". No. 2A9971. Belden 9437. 10 Ft. \$1.45 25 Ft. \$2.35 100 Ft. \$7.05
Unshielded 2-Conductor #32 (7X40). O.D. .050". No. 2A9963. Belden 8430. 10 Ft. .75 25 Ft. \$1.05 100 Ft. \$3.03
Unshielded 4-Conductor #32 (7X40). O.D. .065". No. 2A9972. Belden 9438. 10 Ft. \$1.35 25 Ft. \$1.95 100 Ft. \$4.50



FISH PAPER

High grade fibre sheet paraffined for insulation purposes. 240 square inches .010" thick. No. 17A7038 GC 560 Per Sheet \$7.01



INSULATING CAMBRIC

BREAKDOWN VOLTS 10,000 VOLTS

Prevents grounds and shorts on field coils, transformers, resistors, condensers, wires, etc. Dry, yellow varnished Cambric in rolls of over 210 sq. inches. No. 17A7039 GC 549 90c

MULTIPLE CONDUCTOR UNSHIELDED CABLE

All conductors are size 22, (7X30) stranded tinned copper except 6, 7, 8, and 9 conductor cables in which 2 of the conductors are size 18, (16X30) stranded tinned copper; all are color coded, vinyl plastic insulated, and cabled together with gray vinyl jacket overall.

Stock No.	Belden No.	No. Cond.	O.D.	Wt. 100'	per Ft.	100 Ft.	1000 Ft.
2A9919	8442	2	.165	1 1/2	\$0.04	\$2.96	\$24.00
2A9912	8443	3	.150	2	.07	3.66	29.30
2A9913	8444	4	.168	2	.08	4.83	39.90
2A9914	8445	5	.180	3	.09	5.58	47.70
2A9915	8446	6	.222	4	.13	8.30	73.20
2A9916	8447	7	.246	5	.14	9.60	85.20
2A9917	8448	8	.250	5	.18	10.26	93.00
2A9918	8449	9	.261	5	.18	10.95	100.50



UNSHIELDED PAIRED CABLE

SOLID CONDUCTORS

Conductors are size 22 solid tinned copper, color coded and cabled in pairs. Vinyl plastic insulation with chrome vinyl jacket over-all.

Stock No.	Belden No.	Pairs	O.D.	Wt. 100'	per Ft.	100 Ft.	1000 Ft.
2A9899	8740	1	.150	2	\$0.04	\$2.82	\$20.10
2A9900	8741	2	.201	3	.08	4.68	37.70
2A9901	8742	3	.240	3	.08	6.12	52.50
2A9902	8743	6	.305	6	.12	10.05	92.30
2A9903	8744	9	.354	8	.18	14.88	138.00
2A9927	8753	11	.384	10	.22	18.75	178.60
2A9904	8745	15	.420	12	.30	25.80	238.60
2A9905	8746	27	.550	17	.51	49.50	412.50

STRANDED CONDUCTORS

Size 22 (7X30) more flexible and easier to pull through conduit. Color coded and cabled in pairs.

Stock No.	Belden No.	Pairs	O.D.	Wt. 100'	Per Ft.	100 Ft.	1000 Ft.
2A9974	9744	2	.230	3	\$0.06	\$5.31	\$44.25
2A9975	9745	3	.280	4	.08	7.88	65.70
2A9976	9746	4	.295	5	.11	10.08	84.00
2B182	8747	6	.340	7	.15	12.15	111.80
2A9928	8748	9	.389	9	.22	18.15	173.30
2A9977	9747	12	.440	12	.30	28.62	238.50
2A9929	8749	15	.455	14	.36	30.75	291.00
2B185	8750	27	.595	21	.69	67.68	564.00



UNSHIELDED CONTROL AND AUDIO CABLES

Vinyl plastic insulated, chrome vinyl jacket. Suggested working voltage 8466 and 8467 400 V., all others 600 V.

Stock No.	Belden No.	No. Cond.	Size	O.D.	Wt. 100'	per Ft.	100 Ft.	500 Ft.
2A9948	8466	12	18 (16X30)	.412	13	\$0.31	\$26.25	\$128.25
2A9978	8467	7	18 (16X30)	.324	08.5	.18	14.95	85.60
2A9949	8620	4	16 (19X29)	.375	8	.18	13.80	64.50
2A9950	8621	7	16 (19X29)	.455	13	.30	25.35	114.00
2A9951	8622	12	16 (19X29)	.600	21	.48	41.25	192.00
2A9952	8623	15	16 (19X29)	.650	27	.68	57.75	276.00
2A9963	8627	4	14 (19X27)	.495	14	.29	24.60	113.25



TINNED COPPER SHIELDING

Electrostatic and interference shield for wires. Very flexible. Expands to nearly double its original diameter, reducing length about 25%. Extensively used in mobile radio installations for shielding and bonding.

Stock No.	Belden No.	I.D.	Wt. 100'	10 Ft.	50 Ft.	250 Ft.
2A134	8660	1/8"	1 lb.	\$0.96	\$2.88	\$13.05
2B139	8668	1/4"	2 lb.	1.34	3.96	17.25
2A135	8661	3/8"	2 lb.	1.32	4.56	21.43
2B140	8669	1/2"	3 lb.	2.31	9.84	48.95
2A138	8662	5/8"	8 lb.	3.15	13.90	67.50

Litz Wire 5X44 stranded-enamel, Nylon wrap. O.D. .008". For winding RF, IF coils. No. 2A405. Belden 8817. 100 Ft. Spool For. .81c

BELDEN MAGNET WIRE

Tough dual-film insulated copper wire meets MIL W583—Beldsol film replaces all enameled magnet wire. Use Beldsol for applications where easy insulation removal is desirable. Will solder at 750° F. without stripping. IEEE thermal rating 130° C. Use Poly-Thermaleze where tougher, higher temperature wire is needed. Replaces Belden Nytrid. For motors, solenoids, transformers rated 180° C.



POLY-THERMALEZE—1 Lb. Spool				BELDSOL—1/2 Lb. Spool Except † are 3/4 Lb.					
Size	Stock No.	Belden No.	Ft. per Spool	Each	Size	Stock No.	Belden No.	Ft. per Spool	Each
14	2A6000	8073	80	\$2.87	14	2A6025	8047	40	\$1.85
16	2A6001	8074	126	2.97	16	2A6026	8048	63	1.65
18	2A6002	8075	199	3.12	18	2A6027	8049	100	1.88
20	2A6003	8076	315	3.12	20	2A6014	8050	160	1.88
22	2A6004	8077	501	3.21	22	2A6015	8051	254	1.68
24	2A6005	8078	793	3.42	24	2A6016	8052	404	1.71
26	2A6006	8079	1260	3.72	26	2A6017	8053	645	1.80
28	2A6007	8080	1990	4.17	28	2A6018	8054	1020	1.86
30	2A6008	8081	3140	4.59	30	2A6019	8055	1615	2.10
32	2A6009	8082	4880	5.34	32†	2A6020	8042	1257	1.40
34	2A6010	8083	7860	6.48	34†	2A6027	8043	2030	1.47
36	2A6011	8084	12400	7.77	36†	2A6028	8044	3200	1.88
38*	2A6024	8085	19400	10.08	38†	2A6029	8045	5070	2.10
40*	2A6012	8086	32100	10.08	40†	2A6021	8046	8050	2.82

*Single Film Insulated, Blue Color. †Beldure 105° C film insulated.

COAXIAL CABLE & CONNECTORS

BELDEN COAX CABLE

Highest quality coax cable used for commercial, amateur, military or citizens band transmitting or receiving. Eliminates "stray" fields and confines signal within cable. Vinyl jacket overall for temperatures from -40° C to +80° C, but remains flexible and is impervious to most acids, oils, alkalis and gasoline. Polyethylene insulation over center conductor provides low loss and mechanical stability. Mfg. to MIL C-17 Spec.



Stock No.	Belden No.	Military No.	Imp. Ohms	O.D.	Pf. Ft.	Cap. P.F. Conductor	Size Center C. Ft.	Lb. Wt. C. Ft.	Per Ft.	100 Ft.	1000 Ft.
2A9994	9251	RG8A/U	52	.405	29.5	7X21	11	11	\$0.21	\$18.00	\$141.00
2A9984	8237	RG8U	52	.405	29.5	7X21	11	11	\$0.21	\$16.30	\$129.60
2A9985	8238	RG11U	75	.405	20.5	7X26	10	10	.17	14.70	111.30
2A9987	8240	RG58U	53.5	.195	28.5	#20	3	3	.10	5.64	41.40
2A9988	8259	RG58A/U	50	.195	30.8	19X.007"	3	3	.11	6.60	47.40
2A9989	8262	RG58C/U	50	.195	30.8	19X.007"	3	3	.08	7.15	53.10
2A9990	8241	RG59U	73	.242	21.0	#22	4	4	.12	6.90	47.80
2A9991	8263	RG59B/U	75	.242	20.5	.023"	4	4	.09	7.55	57.80
2A9992	8254	RG62U	93	.242	13.5	#22	4	4	.09	7.35	54.80
2A9993	8218	Sub Minax	75	.150	20.5	7X35	2	2	.08	6.20	45.60

CELLULAR POLYETHYLENE INSULATION

2A9999	8214	8/U	50	.405	26.0	7x19	12	12	.24	17.70	154.50
2A9996	8213	11/U	75	.405	17.3	-14	9	9	.17	20.37	141.90
2A9995	8221	59/U	80	.242	16.3	#22	4	4	.09	7.80	52.00

TFE TEFLON INSULATION

2A4021	83265	1788/U	50	.070	29.0	7X38	1	1	.16	13.90	120.00
2A4022	83266	1808/U	95	.140	15.0	7X38	2	2	.37	31.50	291.00
2A4023	83269	188A/U	50	.102	29.0	7X.0067"	1	1	.26	22.50	204.00
2A4024	83270	196A/U	50	.076	29.0	7X38	1	1	.20	16.80	142.50

BELDEN 8228 DUOFOIL 82-CHANNEL COAXIAL CABLE

Signal attenuation is less than regular 59U, lighter weight and lower cost. 75 ohm impedance, O.D. .242", 17.3 Pf/Ft. capacitance. Size 18 solidcopper conductor, black PVC jacket. Wt. 100' 2 1/2 lbs.

No. 2A9983 Per Ft. 8c 100 Ft. \$6.75 1000 Ft. \$44.80



AMPHENOL COAXIAL CABLE ASSEMBLIES

FOR CB-AMATEUR-MONITOR RECEIVER ANTENNA CIRCUITS
Finest low-loss polyfoam coax, attached PL259 plugs, factory assembled to save time and money.

Stk. No.	Mfg. No.	Description	With PL-259	Wt.	Net Each
2A4000	581-583	3 ft. RG58/U.	Both Ends	3 oz.	\$2.25
2A9986	581-5820-2	20 ft. RG58/U.	Both Ends	1 lb.	3.25
2A4002	581-5820	20 ft. RG58/U.	One End and Spade Lugs on Other End	1 lb.	2.85
2A9979	581-850	50 ft. RG8/U.	Both Ends	6 lbs.	9.25
2A9980	581-8100	100 ft. RG8/U.	Both Ends	11 lbs.	15.90

SOLDERLESS COAX CONNECTORS AND SPLICERS

Manufactured to exact cable sizes and only about 1/2 the size of conventional fittings, for quick, efficient installation of RG58 or RG59 type cables without soldering, crimping, or special tools, and without adaptors. Use connectors instead of 83-1SP and adaptors. Makes a waterproof, positive connection to standard 83-1R receptacles. Splicers are only 7/16" dia., 1" long. Instructions supplied.

No. 12A2837.	RG58/U Connector, pkg. of 2	\$1.49	10 pkg.	Ea. \$1.34
No. 12A2838.	RG59/U Connector, pkg. of 2	\$1.49	10 pkg.	Ea. \$1.34
No. 12A2839.	RG58/U Splicer, Each	\$1.39	10 Ea.	\$1.25
No. 12A2840.	RG59/U Splicer, Each	\$1.39	10 Ea.	\$1.25

AMPHENOL UHF PANEL RECEPTACLE

Panel receptacle requires only one 5/8" hole for mounting. Two hex nuts hold firmly to panel. Mates with 83-1SP type plug. Amphenol 83-878.
No. 12A2833. 1 to 24 Ea. \$93 25-99 Ea. 76 100 up Ea. 64

AMPHENOL UHF DOUBLE MALE CONNECTOR

Connects two 83-1R type receptacles together. Used for mounting SWR meter, coax relay or coax switch directly to transmitter output. Amphenol 83-877.
No. 12A2834. 1 to 24 Ea. \$1.83 25-99 Ea. \$1.50 100 up Ea. \$1.26

"BLITZ BUG" COAX CABLE LIGHTNING ARRESTOR

Added lightning protection for receiving and transmitting equipment, ham gear, citizens band transceivers etc. using 52 ohm or 72 ohm coaxial antenna lead. Shpg. wt. 1 lb.

No. 10A3001.	Cushcraft LAC-1. Threaded for standard PL259 connector one end, S0239 connector other end. Each	\$3.95
No. 10A3038.	Cushcraft LAC-2. Threaded for PL259 connectors both ends. Each	\$4.45



STRAIN RELIEF BUSHINGS

Nylon, grips securely, relieving strain where cords or cables pass through chassis or other sheet metal.

Stock No.	Mfg. No.	Chassis Hole	For Wires	Pkg. at 5	100-999	1000 up
41A443	6676	7/16"	.12 x 22" SP. SPT-1	.49	\$4.87	\$8.95
41A375	6677	1/2"	.15 or .18 x 28 to 30 SP2. SPT-2. HPN 16-18	.49	4.87	38.95
41A442	939	1/2"	.235 to 265" Round	.45	4.50	40.50

AMPHENOL COAX CONNECTORS



UHF SINGLE CONTACT CONNECTORS

Most popular screw-on coaxial connector series. Used extensively for RF power transmission lines in amateur, CB and commercial services. Items with * are female connectors mating with all plugs in the UHF series. Fig. 2 reducers are for use with Fig. 1 plug. Fig. 4 hoods provide fully shielded line connection to rear of Fig. 3 socket.

Fig.	Stock No.	Amphenol No.	Military No.	Description	For RC Cable	1-24 Each	25-99 Each	100-499 Each
1	12A1914	83-1SP	PL-259	Cable Plug	8, 11	\$0.81	\$0.50	\$0.42
2	12A1915	83-776	UG-203U	Cable Plug	58	1.84	1.51	1.27
3	12A2307	83-750	UG111U	Cable Plug	59, 62	1.18	.96	.81
4	12A1916	83-168	UG176U	257" I.D. Reducer	59, 62	2.22	1.18	1.15
5	12A1917	83-185	UG175U	207" I.D. Reducer	58	.19	1.15	1.13
6	12A1918	83-1R	SO-239*	Panel Receptacle		.58	.48	.40
7	12A1957	83-1H	UG106U	345" I.D. Hood	8, 11	.67	.46	.39
8	12A1958	83-765	UG177U	155" I.D. Hood	58	.51	.42	.35
9	12A1959	83-1AP	UG646U	Right Angle		1.83	1.50	1.26
10	12A1962	83-1J	PL-258*	Double Female Adapt.		1.21	.99	.83
11	12A1963	83-1F	UG363	Feed Thru		2.96	2.43	2.04
12	12A1964	83-1T		Tee		3.28	2.69	2.28



TYPE "BNC" CONNECTORS

Fast Bayonet style especially suited for smaller RG58 and RG59 coax cables. Fig. 16 and 17 are "between series" adaptors providing greater convenience where small coax is used with equipment having UHF or N style receptacles. (*) Female connectors mating with all plugs in the BNC series.

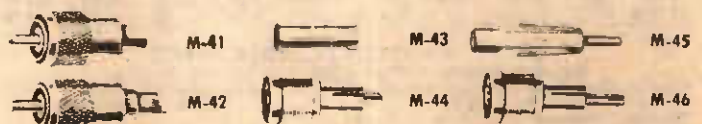
Fig.	Stock No.	Amphenol No.	Military No.	Description	For RC Cable	1-24 Each	25-99 Each	100-499 Each
13	12A1965	31-002	UG88U	Cable Plug	58	\$0.74	\$0.61	\$0.51
14	12A1966	31-018	UG88B/U	Cable Plug	58	.97	.80	.67
15	12A1967	31-202	UG88C/U	Cable Plug	58	.83	.68	.57
16	12A1968	31-012	UG260U	Cable Plug	59, 62	.86	.70	.59
17	12A1969	31-212	UG260B/U	Cable Plug	59, 62	.96	.79	.66
18	12A1970	31-005	UG89U*	Cable Receptacle	58	1.34	1.10	.92
19	12A1971	31-015	UG261U*	Cable Receptacle	59, 62	1.56	1.27	1.07
20	12A1972	31-003	UG290A*	Panel Receptacle		.91	.75	.63
21	12A1973	31-203	UG290A/U*	Panel Receptacle		.96	.79	.66
22	12A1974	31-102	UG657U*	Recept. 1-Hole Mtg.		1.32	1.08	.91
23	12A1975	31-001	UG291U*	Recept. Rear Clamp	58	1.51	1.24	1.04
24	12A2308	31-011	UG262U*	Recept. Rear Clamp	59, 62	1.70	1.39	1.17
25	12A1976	31-219	UG914U*	Dbl. Female Junct.		1.42	1.17	.98
26	12A1977	31-008	UG274U*	Tee		2.48	2.04	1.71
27	12A1978	31-830	UG201U	BNC Jack to N Plug		3.14	2.57	2.16
28	12A1979	31-028	UG273U	BNC Jack to UHF Plug		1.64	1.35	1.13
29	12A1980	31-217	UG349A/U	BNC Plug to N Jack		3.15	2.58	2.17



"N" SERIES CONNECTORS

Highest quality, 50 ohm constant impedance style connectors. Generally specified for more critical applications because of lower SWR and weatherproof construction. Recommended where coax line will be supported by the connector. (*) Female connectors mating with all others in the N series.

Fig.	Stock No.	Amphenol No.	Military No.	Description	For RC Cable	1-24 Each	25-99 Each	100-999 Each
30	12A1981	82-61	UG218/U	Male Cable Plug	8	\$1.48	\$1.21	\$1.02
31	12A1982	82-63	UG23B/U*	Female Cable Jack	8	1.86	1.52	1.28
32	12A1983	82-24	UG58U*	Panel Recept.		1.23	1.01	.85
33	12A1984	82-100	UG29B/U*	Dbl. Recept. Junction		2.11	1.73	1.45
34	12A1985	82-101	UG57B/U	Dbl. Plug Junction		2.64	2.17	1.82
35	12A1986	82-213	UG27C/U*	Right Angle		3.56	2.92	2.45
36	12A1987	82-99	UG28A/U*	Tee		4.44	3.64	3.06



ANTENNA SPECIALISTS COAX CABLE CONNECTOR ADAPTORS

For connecting PL-259, SO-239 plugs to Motorola pin plug and RCA phono plug type sockets and cable plugs. Designed for RF transmitter-receiver cables, test equipment for fast conversion without altering original connectors.

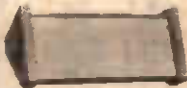
- M-41. Converts Motorola type pin plug on lead to SO-239 on set. No. 12A1988. Net Each \$1.35
- M-42. Converts phono plug on lead to SO-239 on set. No. 12A1989. Net Each \$1.35
- M-43. Converts Motorola type pin plug on lead to phono Jack on set. No. 12A1990. Net Each 69c
- M-44. Converts PL-259 on lead to phono Jack on set. No. 12A1991. Net Each \$1.65
- M-45. Converts phono plug on lead to Motorola type pin Jack on set. No. 12A1992. Net Each 69c
- M-46. Converts PL-259 on lead to Motorola type pin Jack on set. No. 12A1993. Net Each \$1.65



METAL CABINETS ANTENNA WIRE

MARK-T CABINETS

Distinctively designed enclosure for controls, meters, indicators, etc. 16 gauge steel with hinged door and removable front panel provide visibility of entire contents. Panel angle permits easy operation and viewing. Recessed and safety shielded carrying handles. With 4 rubber feet. Charcoal grey vinyl texture with light grey enamel panel and door.



Stock No.	Bud No.	Panel W.	WL.	1-14	15-24	25-34
No.	No.	Area	Lbs.	Each	Each	Each
5A3026	MT214	16" 5 1/4 x 14"	9	\$35.15	\$31.65	\$28.10
5A3027	MT219	21" 5 1/4 x 19"	12	38.50	34.65	30.80
5A3028	MT224	26" 5 1/4 x 24"	14 1/2	45.35	40.80	36.30

TRANSICASES

Handsome aluminum portable instrument case. Contoured design with chrome plated fittings. .040" aluminum with flush mounted .050 aluminum panels. Slip hinge, foam lined lid protects knobs, dials, etc. Clearance lid to panel 1 1/2". Rubber feet on both back and bottom. Textured vinyl gray finish. Blue textured vinyl on special order.



Stock No.	Bud No.	Size Inches	WL.	1-9	10-14	15-19
No.	No.	H. W. D.	Lbs.	Each	Each	Each
5B132	TC-300	10 1/2 x 7 x 6	3 3/4	\$31.20	\$28.10	\$24.95
5B137	TC-301	11 1/2 x 8 1/2 x 6	4 1/2	32.15	28.95	25.70
5B138	TC-302	13 x 9 x 7 1/2	6	34.30	30.85	27.45
5B148	TC-303	16 1/2 x 9 x 7 1/2	8	34.90	31.40	27.90
5B149	TC-304	20 1/2 x 8 x 9	10	36.80	33.10	29.45

TILT-A-VIEW CABINET

Slanted front face and vertical rear face, may be used with or without detachable legs to change panel angle. Two piece 16 gauge permits easy access to interior. Top and bottom sections interlock for strength and rigidity. No fasteners show on front or rear panels. Charcoal grey vinyl texture cabinet with light sand panels.



Stock No.	Bud No.	Size Inches	Wt.	1-14	15-24	25-34
No.	No.	H. W. D.	Lbs.	Each	Each	Each
5A3029	TV2155	4 1/2 x 15 x 10	8 1/2	\$10.25	\$9.25	\$8.20
5A3030	TV2156	6 1/2 x 16 x 12	13	12.00	10.80	9.60
5A3031	TV2157	8 1/2 x 17 x 14	17	17.45	15.70	13.95

GRAND PRIX CABINET

Unique styling accessibility. Top and bottom separate for complete access. Made of 20 gauge steel. aluminum extrusions serve as handles. Choice of light Hammetone Grey with matching panel or textured dark grey with light grey panel. Add HG to stock number for Hammetone Gray or GGY for Textured Grey.



Stock No.	Bud No.	Size Inches	Wt.	1-14	15-24	25-49
No.	No.	H. W. D.	Lbs.	Each	Each	Each
5M51	MD-3	4 1/2 x 12 1/2 x 8 1/2	7	\$17.10	\$15.40	\$13.70
5M46	MO-1	4 1/2 x 19 1/2 x 10 1/2	7 1/2	21.20	19.10	16.95
5M50	MO-2	7 1/2 x 20 1/2 x 10 1/2	7 1/2	22.20	20.00	17.75

BUD PORTACAB

High styled housings for instrumentation or other equipment. Body is one piece .050 aluminum. Removable panel is .062. Flexible recessed handle, detachable rubber feet. Gray Hammetone finish only.



Stock No.	Bud No.	Size Inches	Use	Wt.	1-24	25-49
No.	No.	H. W. D.	Chass.	Lbs.	Each	Each
5A3000	WA1540	8 6 1/2 x 8	AC402	2 1/2	\$13.25	\$11.95
5A3002	WA1542	8 10 1/2 x 8	AC406	3 1/2	16.45	13.90
5A3001	WA1541	9 8 1/2 x 12	AC407	3	17.30	15.55
5A3003	WA1543	11 11 1/2 x 18	AC416	6 1/2	21.45	19.30
5A7518	WA1544	12 14 1/2 x 18	AC420	7 1/2	24.65	22.20

BUD CONVERTA-BOXES

Consists of a welded base and two sided cover. 20 gauge steel assures rigidity and protection. Cadmium plated finish.



Stock No.	Bud No.	Size Inches	Wt.	1-24	25-49	50-99
No.	No.	H. W. D.	Lbs.	Each	Each	Each
5A340	CU341	1 1/2 x 4 x 3 1/2	1/2	\$2.85	\$2.55	\$2.30
5A341	CU452	2 x 5 x 4	1	2.75	2.50	2.20
5A342	CU482	2 x 8 x 4 1/4	2	2.90	2.60	2.30
5A343	CU592	2 1/2 x 9 1/2 x 5 1/4	1 1/4	3.10	2.80	2.60
5A344	CU622	2 1/2 x 12 x 6 2 1/4	3	3.40	3.05	2.70
5A345	CU712	2 1/2 x 15 x 7 3/4	3 1/2	4.60	4.15	3.70

BUD FUTURA CABINETS

Modern rectangular modular cabinets. One piece top and sides removable for easy access to interior. 20 gauge steel with 18 gauge front panel held in place by body flanges eliminating panel mounting screws. Available with inclined (see illustration) or straight panel. Choice of light grey Hammetone body with smooth light grey panel or textured dark blue body with smooth light blue panel. Add HG to stock number for Hammetone Gray or BBY for Blue Textured.



Stock No.	Bud No.	Size Inches	Wt.	1-24	25-49	50-99
No.	No.	H. W. D.	Lbs.	Each	Each	Each
5M32	MD1960	7 13 x 8	6 3/4	\$10.95	\$9.85	\$8.75
5M37	MD1961	8 14 x 9	7 3/4	11.75	10.60	9.40
5M42	MD1962	8 16 x 9	8 1/2	12.20	11.00	9.75

VERTICAL PANEL

Stock No.	Bud No.	Size Inches	Wt.	1-24	25-49	50-99
No.	No.	H. W. D.	Lbs.	Each	Each	Each
5M43	MD1963	7 13 x 8	7	12.85	11.35	10.30
5M44	MD1964	8 14 x 9	8	13.70	12.35	10.95
5M45	MD1965	8 16 x 9	8 3/4	14.70	13.25	11.75

INCLINED PANEL

Stock No.	Bud No.	Size Inches	Wt.	1-24	25-49	50-99
No.	No.	H. W. D.	Lbs.	Each	Each	Each
5M43	MD1963	7 13 x 8	7	12.85	11.35	10.30
5M44	MD1964	8 14 x 9	8	13.70	12.35	10.95
5M45	MD1965	8 16 x 9	8 3/4	14.70	13.25	11.75

FOR OTHER BUD PRODUCTS SEE PAGES 162 AND 163.

Hundreds of other Bud items as well as special fabrications are available. Place your orders with B-A for prompt delivery.

Request Bud Catalog No. 16A1150 For Complete Information.....FREE

LARGER QUANTITY PRICES AVAILABLE—CALL OR WRITE FOR QUOTATION

COPPERWELD ANTENNA WIRE

Tensile strength 3 times that of ordinary copper. Minimum stretch or sag. Electrical properties are the same as copper at high frequencies. All are solid conductors.



Stk. No.	Size (AWG)	BARE		250' Coil		500' Coil	
		Wt.	Each	Wt.	Each	Wt.	Each
2M44	10	3 lbs.	\$4.50	7 lbs.	\$10.69	14 lbs.	\$21.08
2M45	12	2 lbs.	3.41	5 lbs.	8.10	9 lbs.	14.10
2M46	14	1 lb.	2.88	3 lbs.	6.30	6 lbs.	10.38
2M9888	18	1/2 lb.	1.12	1 1/2 lbs.	2.46	3 lbs.	4.05

COPPER ANTENNA WIRE

Excellent for antenna requirements; as bus bar hookup wire; for winding coils, etc. Poly-Thermaleze type is non-corrosive.

SOLID COPPER				SOLID BRIGHT TINNED			
POLY-THERMALEZE INSULATION				POLY-THERMALEZE INSULATION			
Stock No.	Belden No.	Size	Wt.	Stock No.	Belden No.	Size	Wt.
2A12	8008	12	2 lbs.	2A10	8011	12	2
2A42	8009	14	2 lbs.	2A37	8012	14	2
				2A39	8013	16	1
				2A41	8019	18	1
				2A41	8019	18	1
				2B52	8020	20	1
				2B53	8021	22	1
				2B73	8022	24	1
				2B75	8023	26	1

INSULATORS FOR LONG WIRE AND DOUBLET ANTENNAS

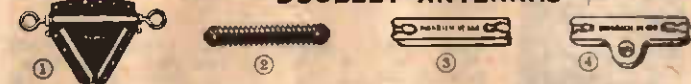


Fig. 1 and 2 are molded high strength Cycloc. Fig. 3 and 4 are glazed porcelain. Fine for receiving antennas.
 ① No. 9A173. HyGain C1 heavy duty center insulator. Each.....\$4.85
 ② No. 9A174. HyGain E1 heavy duty end insulator. Pair for.....2.95
 ③ 9A3029. Birnbach 668 4 1/2" porcelain end insulator. Each......85
 ④ 9A3030. Birnbach 468 4 1/2" porcelain center insulator. Each.....1.00

BUD SHADOW CABINET

Front panel bevelled and recessed 1". Front and back panel as well as the bottom are removable. 18 gauge steel with 16 gauge panels. Rubber feet. Light gray Hammetone.



Stock No.	Bud No.	Size Inches	Use	Wt.	1-24	25-49	50-99
No.	No.	H. W. D.	Chassis	Lbs.	Each	Each	Each
5A246	SB2143	6 15 1/2 x 9	AC409	9 1/2	\$8.50	\$7.65	\$6.80
5A244	SB2141	7 1/2 x 13 1/2 x 9	AC407	9 3/4	9.80	8.10	7.20
5A243	SB2140	8 14 1/2 x 10	AC424	11 1/2	11.35	10.20	9.10
5A245	SB2142	9 1/2 x 17 x 11	AC411	15 1/4	15.05	13.55	12.05

SLOPING FRONT CABINETS

Provided with a hinged top for easy access to tubes and other components mounted on the chassis without removing the front panel. The front panel, however, may be removed if necessary. Stocked in light gray Hammetone finish.



Stock No.	Bud No.	Size Inches	Use	Wt.	1-24	25-49	50-99
No.	No.	H. W. D.	Chassis	Lbs.	Each	Each	Each
5B135	C1584	6 1/2 x 7 1/2 x 7 1/2	AC409	2 1/2	\$5.15	\$4.65	\$4.10
5B136	C1585	6 1/2 x 9 1/2 x 7 1/2	3	5.65	5.10	4.50	
5B139	C1586	6 1/2 x 11 1/2 x 7 1/2	3 1/2	6.60	5.95	5.30	
5A326	C1587	8 x 8 x 8	2 1/2	6.85	6.15	5.60	
5A134	C1588	8 x 10 1/2 x 8	3 1/4	7.60	6.85	6.10	
5B142	C1892	8 x 13 1/2 x 8 1/2	AC407	5 1/4	8.85	7.95	7.10
5A130	C1894	8 x 14 1/2 x 8	AC409	4	7.95	7.15	6.35
5A131	C1896	9 x 18 1/2 x 8 1/2	AC425	7	11.20	10.10	8.95
5B144	C1893	10 x 18 1/2 x 10 1/2	AC415	8 1/2	11.60	10.45	9.30

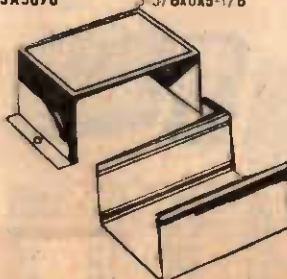
TWO COLOR METAL UTILITY CABINETS



Strikingly handsome utility cabinets for housing miniature or medium sized equipment such as intercoms, amplifiers, control systems, power supplies etc. Have black wrinkle steel cover with ventilating perforations at rear. The white front and rear panels are recessed slightly behind the cover edges. Panels and bottoms are one piece aluminum for easy drilling. Assembled by four screws at bottom of cover, the panels can be tilted for easy viewing of controls if desired. Cabinets have four rubber feet, semi-hidden by the cover which extends slightly below the cabinet floor. A quality import.

Stock No.	Size Inches	Shipping Weight	1-24	25-99	100 up
No.	H. W. D.	Lbs.	Each	Each	Each
5A3074	2-3/16x3-1/4x4	1 lb.	\$1.95	\$1.75	\$1.58
5A3075	3-1/2x4-1/4x4-3/8	1-1/2 lbs	2.95	2.65	2.39
5A3076	3-5/8x6x5-1/8	2 lbs.	4.25	3.83	3.45

ALL ALUMINUM 2-PIECE BOX



Best enclosure we have seen for builders' projects—very professional appearance. Heavy extruded aluminum lid snaps into place, no screws showing. Has "U" channel that printed circuit board slides into. Case may be drilled or punched for transistor mounting. Thick aluminum makes excellent heat sink. Made in America by Delta. Size 3-5/8x2-3/4x1-3/4" H. Shpg. Wt. 4 oz
 5A3043
 Each.....\$2.29
 Each.....\$1.99



CHASSIS, MINIBOXES AND CABINETS

BUD ALUMINUM CHASSIS BASES



One piece aluminum. Corners reinforced and spot welded. 4 sides folded in at bottom for added strength and attaching bottom plate (listed below). 18 gauge, except * which are 16 gauge, and † which are 14 gauge. Natural finish.

Stock No.	Bud No.	Size Inches	Wt. Lbs.	1-24 Each	25-49 Each	50-99 Each
SA347	AC1401	2½x4½x1	¼	\$1.50	\$1.35	\$1.20
SA348	AC1402	3½x4½x1	¼	1.60	1.45	1.30
SA349	AC1403	3½x5½x1	¼	1.60	1.45	1.30
SA350	AC1404	4x5x2	¼	1.90	1.70	1.50
SA351	AC1405	4x6x1½	¼	1.65	1.50	1.30
SB160	AC431	4x6x2	½	1.90	1.70	1.50
SB154	AC430	4x8x3	½	2.10	1.90	1.70
SA352	AC1406	4x8x2	¾	2.15	1.95	1.70
SB164	AC432*	4x17x3	1¼	3.65	3.30	2.90
SA353	AC1407	4½x8x1½	¾	2.00	1.80	1.60
SA313	AC402	5x7x2	½	2.00	1.80	1.60
SB188	AC429	5x7x3	¾	2.25	2.05	1.80
SA354	AC1408	5x9x1½	¾	2.00	1.80	1.60
SA355	AC1409	5x9½x1½	¾	2.00	1.80	1.60

Stock No.	Bud No.	Size Inches	Wt. Lbs.	1-24 Each	25-49 Each	50-99 Each	Stock No.	Bud No.	Size Inches	Wt. Lbs.	1-24 Each	25-49 Each	50-99 Each
SA314	AC403	5x9½x2	¾	\$2.15	\$1.95	\$1.70							
SA202	AC421	5x9½x3	1½	2.60	2.35	2.10							
SB169	AC404	5x10x3	¾	2.60	2.35	2.10							
SA203	AC422	5x13x3	¾	3.00	2.70	2.40							
SA356	AC1410	5x13½x2½	¾	2.65	2.40	2.10							
SA357	AC1411	5½x5½x1	¼	1.85	1.65	1.50							
SA358	AC1412	5½x9½x1½	½	2.00	1.80	1.60							
SA359	AC1413	6x8x2	½	2.15	1.95	1.70							
SA360	AC1414*	6x14x3	1	3.85	3.45	3.10							
SB170	AC433*	6x17x3	1¼	4.35	3.90	3.50							
SA204	AC405	7x7x2	½	2.15	1.95	1.70							
SA205	AC406	7x9x2	½	2.25	2.05	1.80							
SA315	AC407	7x11x2	¾	2.60	2.35	2.10							
SA206	AC408	7x12x3	1	3.15	2.85	2.50							
SA316	AC409	7x13x2	¾	2.65	2.40	2.10							
SA361	AC1415*	7x15x2	1	3.50	3.15	2.80							
SA207	AC411*	7x15x3	1½	3.35	3.00	2.65							
SA362	AC1416*	7x17x2	1	3.90	3.50	3.10							
SA363	AC1417*	7x17x2½	1½	4.10	3.70	3.30							
SA208	AC423*	7x17x3	1¾	4.35	3.90	3.50							
SA364	AC1418	8x10x2½	1	3.25	2.95	2.60							
SA365	AC1419*	8x12x2½	1½	3.85	3.45	3.10							
SA209	AC424*	8x12x3	1½	4.60	4.15	3.70							
SA317	AC425*	8x17x2	1½	3.90	3.50	3.10							
SA210	AC412*	8x17x3	1¾	5.60	5.05	4.50							
SA366	AC1420*	8½x15x3	1½	4.15	3.75	3.30							
SA367	AC1421*	9x15x3	1½	4.75	4.30	3.80							
SA210	AC413*	10x12x3	1½	4.50	4.05	3.60							
SA263	AC414*	10x14x3	1¾	4.50	4.05	3.60							
SA318	AC415*	10x17x2	1¾	4.35	3.90	3.50							
SA211	AC416*	10x17x3	2	5.00	4.50	4.00							
SB172	AC427†	10x17x4	3½	7.10	6.40	5.70							
SA368	AC1422†	10x17x5	2½	10.25	9.25	8.20							
SA369	AC1423†	10x23x3	3	7.50	6.75	6.00							
SA155	AC426†	11x17x2	2¼	5.50	4.95	4.40							
SA319	AC417†	11x17x3	2¾	6.35	5.70	5.10							
SA370	AC1424*	12x12x3	1¾	4.60	4.15	3.70							
SA371	AC1425*	12x17x2	1½	5.75	5.20	4.60							
SA212	AC418†	12x17x3	2¾	6.50	5.85	5.20							
SA163	AC419†	13x17x3	2½	6.65	5.10	4.50							
SA213	AC420†	13x17x3	2¾	6.75	6.10	5.40							
SB173	AC428†	13x17x4	3¾	8.25	7.45	6.60							
SA372	AC1426†	13x17x5	3½	11.30	10.16	9.05							
SA373	AC1427†	14x17x3	3	8.00	7.20	6.40							
SA374	AC1428†	15x17x4	3½	11.25	10.15	9.00							
SA375	AC1429†	15x17x6	3¾	16.56	14.00	12.45							
SA376	AC1430†	17x17x3	3¼	9.50	8.65	7.60							
SA377	AC1431†	17x17x4	4	13.45	12.10	10.75							

NATURAL ALUMINUM BOTTOM PLATES

Stock No.	Bud No.	Size Inches	Wt. Lbs.	1-49 Each	50-99 Each	100-149 Each
SA5509	BPA1501	2½x4½	¼	\$0.85	\$0.75	\$0.70
SA5510	BPA1502	3½x4½	¼	.90	.80	.75
SA5511	BPA1503	3½x5½	¼	.90	.80	.75
SA5512	BPA1504	4x5	¼	.90	.80	.75
SA5513	BPA1505	4x6	¼	1.00	.90	.80
SA5514	BPA1506	4x8	¼	1.15	1.05	.90
SA5515	BPA1532	4x17	¼	1.15	1.05	.90
SA5515	BPA1507	4½x8	¼	1.25	1.15	1.10
SA5516	BPA1589	5x7	¼	1.10	1.00	.90
SA5517	BPA1508	5x9	¼	1.10	1.00	.90
SA5518	BPA1590	5x9½	¼	1.10	1.00	.90
SA5519	BPA1591	5x10	¼	1.10	1.00	.90
SA5520	BPA1509	5x13	¼	1.75	1.60	1.40
SA5521	BPA1510	5x13½	¼	1.75	1.60	1.40

Stock No.	Bud No.	Size Inches	Wt. Lbs.	1-49 Each	50-99 Each	100-149 Each
SA5522	BPA1511	5½x5½	¼	\$1.10	\$1.00	\$0.90
SA5523	BPA1512	5½x9½	¼	1.15	1.05	.90
SA5524	BPA1513	6x8	¼	1.25	1.15	1.00
SA5525	BPA1514	6x14	¼	1.75	1.60	1.40
SA5526	BPA1515	6x17	¼	2.10	1.90	1.70
SA5527	BPA1592	7x7	½	1.10	1.00	.90
SA5528	BPA1593	7x9	½	1.15	1.05	.90
SA5529	BPA1594	7x11	½	1.25	1.15	1.00
SA5530	BPA1595	7x12	½	1.50	1.35	1.20
SA5531	BPA1596	7x13	½	1.75	1.60	1.40
SA5531	BPA1516	7x15	½	1.90	1.70	1.50
SA5532	BPA1517	7x17	½	1.90	1.70	1.50
SA5533	BPA1518	8x10	¾	1.85	1.65	1.50
SA5534	BPA1519	8x12	¾	2.15	1.95	1.70

Stock No.	Bud No.	Size Inches	Wt. Lbs.	1-49 Each	50-99 Each	100-149 Each
SA5535	BPA1520	8x17	¾	\$2.25	\$2.05	\$1.80
SA5536	BPA1521	8½x15	½	2.66	2.40	2.10
SA5537	BPA1522	9x15	½	2.75	2.50	2.20
SA5538	BPA1523	10x12	½	2.15	1.95	1.70
SA5539	BPA1524	10x14	¾	2.15	1.95	1.70
SA5540	BPA1597	10x17	¾	2.15	1.95	1.70
SA5541	BPA1598	10x23	¾	3.15	2.85	2.50
SA5542	BPA1526	11x17	1	2.35	2.10	1.90
SA5543	BPA1527	12x12	¾	2.35	2.10	1.90
SA5544	BPA1528	12x17	¾	2.90	2.60	2.30
SA5545	BPA1598	13x17	¾	3.10	2.80	2.50
SA5546	BPA1529	14x17	¾	3.10	2.80	2.50
SA5547	BPA1530	15x17	1	4.15	3.75	3.30
SA5548	BPA1531	17x17	1¼	4.25	3.85	3.40

BUD ALUMINUM MINIBOXES

This Minibox has both snap-lock and screw-type fastening. The design permits the installation of more components than is possible in other conventionally designed boxes of the same size. Two-piece construction, each piece forming three sides. The two sections are held together by the engagement of four circular projections into four matching holes. A unique mechanical principle enables these projections to be easily and quickly knocked out if screw type assembly is desired. Flange assures proper shielding. Four self-tapping screws furnished. Made of .040 aluminum, except 7" and longer are .050". Available in natural finish or light gray Hammertone. Please specify when ordering.



Size Inches L. H. W.	Wt. Lbs.	Natural Finish Bud No.	Stk. No.	1-49 Each	50-99 Each	100-149 Each	Hammertone Bud No.	Stk. No.	1-49 Each	50-99 Each	100-149 Each
2¾x2½x1½	¼	CU3000A	SA3005	\$0.90	\$0.80	\$0.70	CU2100A	SA3018	\$1.10	\$1.00	\$0.90
3¼x2½x1½	¼	CU3017A	SA3014	1.00	.90	.80	CU2117A	SA3025	1.25	1.15	1.00
3¼x2½x1½	¼	CU3001A	SA3006	.90	.80	.70	CU2101A	SA3019	1.10	1.00	.90
4x2x2¼	¼	CU3015A	SA3012	1.15	1.05	.90	CU2115A	SA3023	1.25	1.15	1.00
4x2½x1½	¼	CU3002A	SA3007	1.00	.90	.80	CU2102A	SA3020	1.15	1.05	.90
4x2¼x2¼	¼	CU3003A	SA3008	1.15	1.06	.90	CU2103A	SA3021	1.25	1.15	1.00
4¼x2½x1½	¼	CU3016A	SA3013	1.15	1.06	.90	CU2116A	SA3024	1.25	1.15	1.00
5x2¼x2¼	¼	CU3004A	SA3009	1.25	1.15	1.00	CU2104A	SA3022	1.40	1.25	1.10
5x4x3	½	CU3005A	SA3010	1.25	1.15	1.00	CU2105A	SA333	1.75	1.60	1.40
5¼x3x2½	¾	CU3006A	SA3011	1.25	1.15	1.00	CU2106A	SA334	1.50	1.35	1.20
6x5x4	¾	CU3007A	SA271	1.75	1.60	1.40	CU2107A	SA335	2.15	1.95	1.70
7x5x3	¾	CU3008A	SA272	2.15	1.95	1.70	CU2108A	SA336	2.50	2.25	2.00
8x6x3¼	1	CU3009A	SA273	2.85	2.55	2.30	CU2109A	SA337	3.25	2.95	2.60
10x2¼x1½	½	CU3013A	SA277	1.65	1.50	1.30	CU2113A	SA282	1.85	1.65	1.50
10x6x3¼	¾	CU3010A	SA274	3.00	2.70	2.40	CU2110A	SA279	3.60	3.25	2.90
12x2½x2¼	¾	CU3014A	SA278	2.10	1.90	1.70	CU2114A	SA283	2.40	2.15	1.90
12x7x4	1	CU3011A	SA275	4.25	3.85	3.40	CU2111A	SA280	4.85	4.35	3.80
17x5x4	2¼	CU3012A	SA276	4.25	3.85	3.40	CU2112A	SA281	4.85	4.35	3.80

BUD COWL-TYPE MINIBOX



Projecting cover reduces glare from overhead lighting, protects controls. Top and side assembly slips over bottom section forming a rigid unit with excellent accessibility. Made of .040" aluminum.

Size Inches H. W. D.	Wt. Lbs.	Natural Finish Bud No.	Stk. No.	1-49 Each	50-99 Each	100-149 Each	Hammertone grey Bud No.	Stk. No.	1-49 Each	50-99 Each	100-149 Each
3 8 5	1	SC3032	SA261	\$3.60	\$3.25	\$2.90	SC2132	SA257	\$5.00	\$4.50	\$4.00
5 5 5	1	SC3033	SA262	3.75	3.40	3.00	SC2133	SA258	5.10	4.60	4.10
6 10 7	1¼	SC3030	SA259	6.25	5.65	5.00	SC2130	SA255	8.70	7.85	6.95
7 12 8	1½	SC3031	SA260	6.75	6.10	5.40	SC2131	SA256	9.45	8.50	7.55

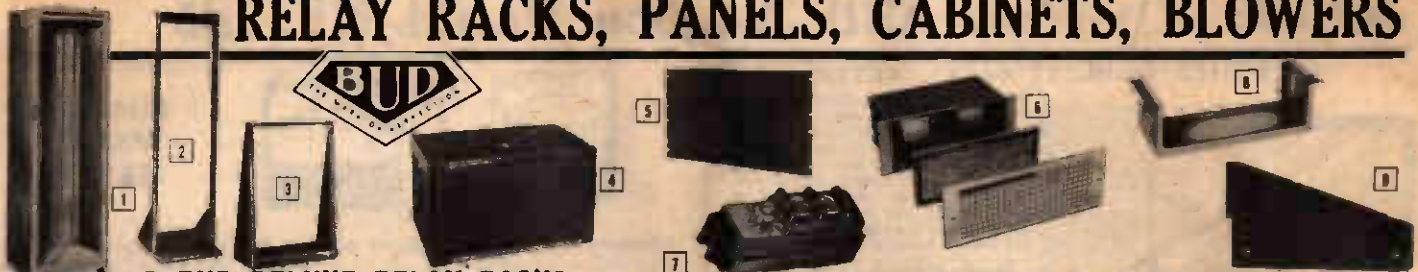
BUD MINIATURE UTILITY CABINETS

ALUMINUM TYPE

A highly useful housing for all types of electronic equipment. Both front and back panels are removable for easy accessibility. Aluminum alloy 5005 H-14 and are available with natural or light gray hammertone (HG) finish.

Size Inches H. W. D.	Wt. Lbs.	Bud No.	Stk. No.	Natural Finish 1-49 Ea.	50-99 Ea.	100-199	Stk. No.	Grey Hammertone 1-49 Ea.	50-99 Ea.	100-149
4 4 2	¼	AU1083	SA3015	\$2.15	\$1.95	\$1.70	SA3032	\$2.25	\$2.00	\$1.80
4 5 3	¼	AU1028	SA3016	2.25	2.05	1.80	SA3033	2.85	2.65	2.30
6 5 4	½	AU1029	SA3017	2.25	2.20	2.10	SA3034	3.00	2.70	2.40
6 6 6	¾	AU1039	SA264	3.65	3.30	2.90	SA266	4.00	3.60	3.20
9 8 5	1	AU1040	SA265	4.15	3.75	3.30	SA267	6.00	4.50	4.00

RELAY RACKS, PANELS, CABINETS, BLOWERS



① BUD DELUXE RELAY RACKS

Attractive rounded corner design with red filled chrome trim and recessed panel supports for flush panel mounting. Racks of 16 gauge steel, 3/4" panel supports. Drilled and tapped for 10-32 screws, spacing for all standard 19" panels. Well ventilated, louvers side and rear. Hinged rear door with snap catches. All are 22" wide, 17 1/2" deep. Supports for mounting free-rolling casters listed below. Shipped knocked down. Hammertone Gray finish.

Stock No.	Bud No.	Hgt. Ins.	Panel Space	Wt. Lbs.	1-9	10-14	15-19
5A7514	CR1774	42 1/2"	36 3/4"	82	\$72.45	\$65.20	\$57.95
5A7500	CR1771	47 1/2"	42"	92	82.00	73.80	65.60
5A7515	CR1772	66 1/2"	61 1/4"	115	102.60	92.35	82.10
5A7516	CR1773	82 1/2"	77"	135	118.16	106.35	94.50

BUD RC7756. 2 1/2" CASTERS FOR BUD DELUXE RELAY RACKS
No. 5A310. Wt. 6 ozs. (Requires 4)
1-24 Each \$1.40 25-49 Each \$1.25 50-99 Each \$1.10

② BUD TELEPHONE TYPE RELAY RACKS

Uprights 3/4" steel channels, 3" deep. Chassis type base. Stocked in Hammertone Gray.

Stock No.	Bud No.	Hgt. Ins.	Panel Space	Wt. Lbs.	1-9	10-14	15-19
5A7509	RR1264	70 1/2"	66 1/2"	46	\$36.55	\$32.90	\$29.25
5A7510	RR1364	75 1/2"	71 3/4"	48	38.40	34.55	30.70
5A7511	RR1366	81 1/2"	77"	50	42.10	37.90	33.70

③ TABLE MOUNT TELEPHONE RACKS

For desk or bench mtg. of equipment, permitting easy access for building or operating. Panel supports are recessed for flush panel mounting. Hammertone gray.

Stock No.	Bud No.	Hgt. Ins.	Panel Space	Wt. Lbs.	1-14	15-24	25-34
5A7519	RR1248	24"	21"	15	\$14.70	\$13.26	\$11.75
5A7520	RR1249	31"	28"	18	17.35	15.50	13.90

④ BUD DELUXE CABINET RACKS

Professional quality and appearance for equipment builders. All have hinged top with recessed snap lock and the five larger sizes also have hinged rear door. "No scratch" metal feet embossed on bottom. Red lined chrome trim. For use with standard relay rack panels. Overall D.D. is 22" wide, 14 1/4" deep. Stocked in Hammertone Gray.

Stock No.	Bud No.	Hgt. Ins.	Panel Space	Wt. Lbs.	1-9	10-14	15-19
5A7503	CR1741	10 1/4"	8 3/4"	28	\$24.30	\$21.85	\$18.45
5A7501	CR1740	12 1/4"	10 1/2"	31	28.45	26.60	22.75
5A7504	CR1742	14 1/4"	12 1/4"	32	29.30	26.35	23.45
5A7502	CR1739	15 1/4"	14"	35	39.75	35.80	31.80
5A7506	CR1743	19 1/4"	17 1/2"	40	38.90	35.00	31.10
5A7507	CR1727	22 1/4"	21"	43	41.75	37.60	33.40
5A7512	CR1744	28 1/4"	26 1/4"	51	44.90	40.40	35.90
5A7508	CR1728	33 1/4"	31 1/2"	58	47.75	43.00	38.20
5A7513	CR1745	36 1/4"	35"	63	50.25	45.25	40.20

⑤ ALUMINUM RELAY RACK PANELS

All panels are 19" wide, 1/4" thick. Notched to RMA specification which fits all standard racks. Hammertone Gray finish.

Stock No.	Bud No.	Height Inches	Wt. Lbs.	1-49	50-99	100-149
5A5550	PA1101	1 3/4"	3/4"	\$1.85	\$1.65	\$1.50
5A5551	PA1102	3 1/2"	1"	2.60	2.35	2.10
5A5552	PA1103	5 1/4"	1 1/4"	3.35	3.00	2.70
5A5553	PA1104	7"	1 3/4"	4.25	3.85	3.40
5A5554	PA1105	8 3/4"	2"	4.85	4.35	3.90
5A5555	PA1106	10 1/2"	2 1/2"	6.15	5.55	4.90
5A5556	PA1107	12 1/4"	2 3/4"	7.20	6.50	5.75
5A5557	PA1108	14"	3"	8.20	7.40	6.55
5A5558	PA1109	15 3/4"	3 1/2"	9.10	8.20	7.30
5A298	PA1110	17 1/2"	4"	9.95	8.95	7.95
5A299	PA1111	19 1/4"	4 1/2"	10.85	9.75	8.70
5A300	PA1112	21"	5"	12.00	10.80	9.60

⑥ ALUMINUM SURFACE SHIELD RACK PANELS

Bright aluminum with blemish-free Mill finish. Covered both sides with pressure sensitive white paper for layout and drilling; paper is removed when ready to install. Standard notching, 19" width, 1/4" thick.

Stock No.	Bud No.	Height Inches	Wt. Lbs.	1-24	25-49	50-99
5A5559	SFA1831	1 3/4"	3/4"	\$1.60	\$1.45	\$1.35
5A5560	SFA1832	3 1/2"	1"	2.65	2.40	2.10
5A5561	SFA1833	5 1/4"	1 1/4"	3.49	3.05	2.70
5A5562	SFA1834	7"	1 3/4"	4.15	3.75	3.30
5A5563	SFA1835	8 3/4"	2"	4.90	4.40	3.90
5A5564	SFA1836	10 1/2"	2 1/2"	6.35	5.70	5.10
5A5565	SFA1837	12 1/4"	2 3/4"	7.25	6.65	5.80
5A5566	SFA1838	14"	3"	8.25	7.45	6.60

⑦ BUD PANEL CHASSIS

For vertical chassis installation on relay rack panels where space in depth is limited. Provides easy access to circuitry. Horizontal design permits easier access for testing and maintenance. All have 17" chassis length and 5 1/2" depth. Notched for mounting with 19" relay rack panels. Made of .062" natural aluminum.

Stock No.	Bud No.	Height Inches	Wt. Lbs.	1-24	25-49	50-99
5A321	CB1371	3 1/2"	1 1/4"	\$3.90	\$3.50	\$3.10
5A322	CB1372	5 1/4"	1 1/2"	4.36	3.90	3.50
5A323	CB1373	7"	2"	4.90	4.40	3.90
5A324	CB1374	8 3/4"	2 1/4"	6.90	6.30	4.70

⑧ BUD TRANS-AIRE BLOWERS

Features greater air displacement for given area and panel space. Exhaust or intake, operates in any position. 110 volt 2 speed motor, rubber mounted. Has oilite bearings. Has thermal overload protection and automatic reset. Mounted on 19" rack panels with 18" 3-wire cord. Complete with disposable air filter and chrome grille. *Single speed

Stock No.	Bud No.	Panel Space	Depth Ins.	Air Displacement High	Air Displacement Low	Wt. Lbs.	1-9	10-14	15-19
5A200	B23A	3 1/2"	12"	200CFM	100CFM	17 1/4"	\$ 91.35	\$ 82.20	\$73.10
5A214	B25A	5 1/4"	14 1/2"	500CFM	250CFM	33"	104.30	93.85	83.45
5A215	B27A	7"	14 1/2"	750CFM	350CFM	35 1/4"	117.20	105.50	93.75
5A3065	B50	3 1/2"	19"	150CFM	"	13"	88.80	79.90	71.05
5A3068	B52	5 1/4"	19"	150CFM	"	14"	91.70	82.55	73.35
5A3067	B54	7"	19"	300CFM	"	21"	117.45	105.70	93.95

AIR FILTERS FOR ABOVE

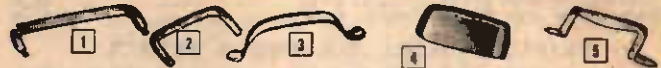
Stk. No.	Mfg. No.	Descriptions	1-24	25-49	50-99
5A5578	BF24	For B23 A and B50 Blower	\$1.70	\$1.55	\$1.35
5A5579	BF26	For B25 Blower	1.85	1.66	1.50
5A5580	BF28	For B27 Blower	2.10	1.90	1.70
5A3068	BF53	For B52 Blower	1.85	1.66	1.50
5A3050	BF55	For B54 Blower	2.00	1.80	1.60

⑨ ADJUSTABLE BUD TEM-STAT

Tem-stat thermostat mounted in an enclosure. Responds quickly to gradual or sudden temperature changes. Actuates warning devices or turns Blowers on and off. Adjustable temp. range. 2 1/2" x 1 1/2". UL listed.

Stock No.	Bud No.	Adjustable Temp. Range	1-49	50-99	100-149
5C148	TS-15	80 to 170° F.	\$6.65	\$6.00	\$5.30

BUD QUALITY HANDLES WITH MOUNTING HARDWARE



- ① Made of 3/8" steel rod, chrome plated. Hand clearance 1 1/4".
- ② Made of 1/4" brass rod, chrome plated. Hand clearance 1".
- ③ Tubular aluminum, etched finish.
- ④ Sturdy drawer pull, silver anodized aluminum with 3/4" hand clearance.
- ⑤ Convenient hinged type silver anodized aluminum, hand clearance 1 1/2".

⑩ BUD CHASSIS BRACKETS

Essential for proper chassis support. Heavy gauge steel, black finish. Cut out to mount chassis flush against panel. MB450 and MB451 for 4 inch chassis, all others up to 3 inches high.

Stock No.	Bud No.	Size Inches	Wt. Lbs.	1-49	50-99	100-149
5A99	MB458	8" 6 1/2"	1 1/4"	\$2.00	\$1.80	\$1.60
5A113	MB448	10" 6 1/2"	1 3/4"	2.00	1.80	1.60
5A98	MB449	11" 6 1/2"	2"	2.35	2.10	1.90
5A156	MB459	12" 6 1/2"	2"	2.65	2.40	2.10
5A284	MB460	13" 6 1/2"	2 1/2"	2.50	2.25	2.00
5A157	MB450	10" 8 1/2"	2 1/4"	3.00	2.70	2.40
5A158	MB451	13" 8 1/2"	3"	3.15	2.85	2.50

MIDGET SIZE CABINETS



① BUD SLOPING FRONT CABINETS for miniaturized equipment. Hammertone gray. Size 4 1/2" deep x 4 1/2" high. One-piece detachable back and sides.

Stock No.	Bud No.	Width	Wt. Lbs.	1-49	50-99	100-149
5B145	C1606	4"	3/4"	\$2.25	\$2.05	\$1.80
5A19	C1607	5"	3/4"	2.35	2.10	1.90
5A20	C1608	6"	1 1/4"	2.60	2.35	2.10
5A14	C1609	7"	1 1/4"	3.00	2.70	2.40

ALUMINUM CABINETS

Stock No.	Bud No.	Wt. Lbs.	1-49	50-99	100-149
5A224	AC1610	4"	1/2"	2.85	2.55
5A225	AC1611	5"	1/2"	2.75	2.50
5A226	AC1612	6"	3/4"	3.00	2.70
5A228	AC1613	7"	3/4"	3.35	3.00

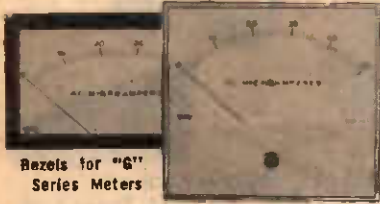
⑪ BUD UNIVERSAL CASES FOR 2 AND 3 INCH METERS

Punched for 2" meter with easily removable knock-out ring to increase hole size for 3" meter. One-piece removable sides and bottom. Two 3/8" knock-outs in top for installing insulators, etc. Gray hammertone. 4x4x4 1/4".

Stk. No.	Bud No.	Material	Wt. Lb.	1-49 Ea.	50-99 Ea.	100-149 Ea.
5A39	CM1935	Steel	1	\$2.10	\$1.90	\$1.70
5A40	CM1936	Aluminum	3/4	2.40	2.15	1.90
LARGER SIZE CASE. 4 1/4" H. x 6" W. x 4" D. Aluminum, Hammertone Gray.						
5A33	CM1930	3/4 Lb.		\$4.10	\$3.70	\$3.30

Shurite TRIPLET AND Simpson PANEL METERS

"G" SERIES TRIPLETT PANEL METERS



Bezels for "G" Series Meters

"G" Series Meters

2 1/2" DC Meters Are Model 220 G, 2 1/2" AC Meters Are Model 230 G. Both are 2.77x2.39" high, mount in 2.2" dia. hole. DC scale length 2.48", AC scale length 2.11"

3 1/2" DC Meters Are Model 320 G, 3 1/2" AC Meters Are Model 330 G. Both are 3.5" x3.00" h. Mount in 2.75" dia. hole. DC scale length 3.16", AC scale length 3.16"

4-1/2" DC Meters Are Model 420 G, 4-1/2" AC Meters Are Model 430 G. Both are 4.55 X 4.07" H. mount in 2.75" dia hole DC scale length 4.03" AC scale length 3.43"

Range	2 1/2" METERS		3 1/2" METERS		4 1/2" METERS	
	Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-50 DC Volts	35A6191	\$19.90	35A6142	\$21.00	35A6057	\$22.10
0-300 DC Volts	35A6192	19.90	35A6143	21.00	35A6058	22.10
0-50 DC MV	35A6190	18.80	35A6054	19.90	35A6059	21.00
0-1 DC MA	35A6185	18.20	35A6144	19.30	35A6060	20.40
0-10 DC MA	35A6186	18.20	35A6055	19.30	35A6061	20.40
0-50 DC MA	35A6187	18.20	35A6145	19.30	35A6062	20.40
0-100 DC MA	35A6188	18.20	35A6146	19.30	35A6063	20.40
0-500 DC MA	35A6189	18.20	35A6147	19.30	35A6064	20.40
0-50 DC uA	35A6193	23.70	35A6148	27.60	35A6065	28.70
0-100 DC uA	35A6199	22.10	35A6149	24.80	35A6066	25.90
0-150 AC Volts	35A6197	18.80	35A6150	19.90	35A6067	21.00
0-300 AC Volts	35A6198	18.80	35A6151	19.90	35A6068	21.00
0-5 AC Amp	35A6194	17.60	35A6152	18.80	35A6069	19.90
0-10 AC Amp	35A6195	17.60	35A6056	18.80	35A6070	19.90
0-50 AC Amp	35A6196	17.60	35A6153	18.80	35A6071	19.90

Bezels for "G" Series Meters. Meter mounts back of panel. Overall size for 2 1/2" meter, 3.09 X 1.69" H.; for 3 1/2" meter, 3.83" W. X 2.27" H.; for 4" meter, 4.92" W. X 2.85" H.

No. 35A6203. For 2 1/2" Meters. 13A-233. Each.....\$1.90
 No. 35A6155. For 3 1/2" Meters. 13A-234. Each.....\$1.90
 No. 35A6167. For 4 1/2" Meters. 13A-235. Each.....\$1.90

TRIPLETT NULL METERS G SERIES

Sensitivity at Null Point is 0.3 ua per degree. End scale value is 40-0-40 ± 20%. Center spot mirrored for elimination of parallax in reading. Suspension type movements.

40-0-40 320 G 3 1/2" meter. With 1700 ohms resistance. Triplet 8069752. \$43.10
 No. 35A6200 Each.....
 40-0-40 420 G 4 1/2" meter. With 1700 ohms resistance. Triplet 8069852. \$44.50
 No. 35A6201 Each.....

SHURITE PANEL METERS



MODEL 850 MODEL 750

Calibrated for non-magnetic panels. Accurate within 5%. White, metal scale, clear plastic face. DC meters polarized-vane solenoid type; AC meters double vane repulsion type, jeweled bearings. Shpg. wt. 8 Oz. Model 850. Front 2 17/32" W X 2 5/16" H. Extends 1 7/16" behind panel. 2 5/32" dia hole.

DC MICROAMMETER				DC VOLTS			
Range	Stk. No.	Mfg. No.	Each	Range	Stk. No.	Mfg. No.	Each
0-500	35A6000	8902	\$4.95	0-3	35A6023	8102	\$3.30
DC MILLIAMMETER				0-5	35A6024	8104	3.30
0-1	35A6065	8336	\$4.50	0-10	35A6025	8107	3.30
0-3	35A6168	8301	3.75	0-15	35A6028	8108	3.30
0-5	35A6003	8302	3.45	0-25	35A6027	8109	3.50
0-10	35A6004	8303	3.30	0-50	35A6028	8122	3.40
0-15	35A6005	8304	3.30	0-150	35A6029	8115	3.70
0-25	35A6006	8305	3.30	AC VOLTS			
0-50	35A6007	8306	3.30	0-10	35A6030	8403	\$4.75
0-100	35A6008	8307	3.30	0-25	35A6031	8412	4.75
0-150	35A6009	8308	3.30	0-150	35A6033	8406	4.95
0-200	35A6010	8309	3.30	0-300	35A6034	8407	5.20
0-300	35A6011	8310	3.30	AC AMPMETER			
0-500	35A6012	8312	3.30	0-3	35A6035	8502	\$4.65
DC AMPS				0-5	35A6036	8503	4.65
0-3	35A6013	8202	\$3.30	0-10	35A6037	8504	4.65
0-5	35A6014	8203	3.30	0-15	35A6038	8508	4.65
0-10	35A6015	8205	3.30	0-30	35A6039	8505	4.75
0-15	35A6016	8206	3.30	OHMMETER			
0-25	35A6017	8207	3.70	Measures resistance 0-10K ohms.			
0-50	35A6018	8208	3.70	Stk. No.	Model	Net Ea.	
10-0-10	35A6021	8213	3.70	35A6020	8701 Sq. Plastic	\$3.70	
20-0-20	35A6022	8214	3.70				

NEW 3-1/2" RECTANGULAR METERS

Model 750. Front 3 1/2" W x 3" H. Extends 1 13/32" behind panel. 2 1/32" dia hole

Range	Stock No.	Mfg. No.	Each	Range	Stock No.	Mfg. No.	Each
0-15 DC Volts	35A6204	7108	\$4.80	0-1 DC MA	35A6210	7338	\$5.40
0-25 DC Volts	35A6205	7109	5.00	0-10 DC MA	35A6211	7303	5.40
0-50 DC Volts	35A6208	7122	4.90	0-150 AC Volts	35A6212	7406	6.00
0-150 DC Volts	35A6207	7115	5.25	0-15 AC Amps	35A6213	7508	5.70
0-10 DC Amps	35A6208	7205	4.80	0-50 AC Amps	35A6214	7506	6.00
0-50 DC Amps	35A6209	7208	5.25	0-10 AC MA	35A6215	7607	6.00



SIMPSON PANEL METERS

① MODERN "WIDE-VUE" 3-1/2" METER MODELS 1327, 1337, 1347, 1357 with 3 1/4" scale length. One piece molded clear plastic wrap around cover. Black case 3 1/4" x 3 1/4". All DC movements are self shielded core magnet movement eliminating calibration problems in metal panels or in magnetic fields. AC meters are moving vane type. Mount in 2 1/4" hole. Average shpg. wt. 12 oz

② 4 1/2" RECTANGULAR MODEL 29 and 59. Large, accurate, open face instruments with long easy-to-read scale. Black bakelite case 4.66" W., 4.20" H. Mount in 2 3/4" hole. Scale length 3.9". Calibrated ±2%. Average shpg. wt. 1 lb.

QUANTITY PRICES: 10 to 24 deduct 10% from "Each" price; 25 up deduct 15% from "Each" price.

DC MILLIAMMETER						
Range MA	Model No.	Stock No.	Net Each	Model No.	Stock No.	Net Each
0-1	1327	35A6072	\$20.55	29	35A6113	\$21.90
0-5	1327	35A6073	20.55			
0-10	1327	35A6074	20.55	29	35A6114	21.90
0-15	1327	35A6075	20.55			
0-50	1327	35A6076	21.15	29	35A6115	22.95
0-100	1327	35A6077	21.15			
0-150	1327	35A6078	21.15			
0-300	1327	35A6079	21.15			
0-500	1327	35A6080	21.15	29	35A6116	22.95

DC MICROAMMETERS						
UA	Model	Stk. No.	Each	Model	Stk. No.	Each
0-50	1327	35A6082	26.10	29	35A6118	28.20
0-100	1327	35A6083	24.00	29	35A6119	26.70
0-200	1327	35A6084	21.90	29	35A6120	24.00
0-500	1327	35A6085	21.60	29	35A6121	23.40
500-0-500	1327	35A6086	20.85	29	35A6122	28.35

DC AMMETERS						
Amps	Model	Stk. No.	Each	Model	Stk. No.	Each
0-1	1327	35A6087	\$21.15	29	35A6123	\$22.95
0-3	1327	35A6088	21.15			
0-5	1327	35A6089	21.15	29	35A6124	22.95
0-10	1327	35A6090	21.15			
0-25	1327	35A6091	21.15	29	35A6125	22.95
0-50	1327	35A6092	21.15	29	35A6126	22.95

DC VOLTMETERS (1000 OPV; 500 VOLTS is 2000 DPV)						
Range V.	Model	Stk. No.	Each	Model	Stk. No.	Each
0-5	1327	35A6093	\$21.90			
0-10	1327	35A6094	21.90	29	35A6127	\$24.00
0-25	1327	35A6095	21.90	29	35A6128	24.00
0-50	1327	35A6096	21.90	29	35A6129	24.00
0-100	1327	35A6097	21.90	29	35A6130	24.00
0-150	1327	35A6098	21.90	29	35A6131	24.00
0-300	1327	35A6099	21.90	29	35A6132	24.00
0-500	1327	35A6100	22.95	29	35A6133	24.75

AC VOLTMETERS						
Range	Model	Stk. No.	Each	Model	Stk. No.	Each
0-5	1357	35A6101	\$20.10			
0-10	1357	35A6102	20.10			
0-15	1357	35A6103	20.10	59	35A6134	\$22.50
0-100	1357	35A6104	20.85			
0-150	1357	35A6105	21.60	59	35A6135	22.95
0-300	1357	35A6106	21.60	59	35A6136	22.95

AC AMPMETERS						
Range	Model	Stk. No.	Each	Model	Stk. No.	Each
0-1 A.	1357	35A6107	\$19.20	59	35A6137	\$20.40
0-3 A.	1357	35A6108	19.20			
0-5 A.	1357	35A6109	19.20	59	35A6138	20.40
0-10 A.	1357	35A6110	19.20	59	35A6139	20.40
0-25 A.	1357	35A6111	19.95	59	35A6140	21.15
0-50 A.	1357	35A6112	19.95	59	35A6141	21.15

① Model 1357 AC MILLIAMMETERS				① Model 1337 R. F. AMMETERS			
Stock No.	Range	Ohms	Each	Stock No.	Range	Thermo	Each
35A6218	0-10	1650	\$19.20	35A6216	0-1.5	Internal	\$24.30
35A6219	0-100	17.2	19.20	35A6217	0-3	Internal	24.30

① SIMPSON TAUT BAND MICROAMMETERS

Taut band movement offers increased reliability, higher sensitivity, lower resistance and greater ruggedness.

No. 35A6178. Model 1327T. 3 1/2 Inch 0-10 Microamp DC. Net Ea.....\$42.75
 No. 35A6081. Model 1327T. 3 1/2 Inch 0-25 Microamp DC. Net Ea..... 37.05
 No. 35A6179. Model 1327T. 3 1/2 Inch 0-50 Microamp DC. Net Ea..... 28.35
 No. 35A6180. Model 1327T. 3 1/2 Inch 0-100 Microamp DC. Net Ea..... 26.10

① DC GALVANOMETERS—SELF SHIELDING 3 1/2 IN.

Stk. No.	Mfg. No.	Size Ins.	Scale Range	Sensitivity Microamp	Net Each
35A6181	1327	3/4"	50-0-50	500-0-500	\$19.95
35A6182	1327	3/4"	50-0-50	75-0-75	23.40

① SIMPSON VOLUME LEVEL INDICATORS

1 1/2 and 3 1/2" VU Meters. Self shielding meter movement, reference level 1 milli-watt, 600 ohm line. Both have "A" scale for monitoring

Model 1274. 1 1/2" Size. Illus. above. Model 1347. 3 1/2" Size. Illus. above.
 No. 35A6183. Net Each.....\$30.30 No. 35A6184. Net Each.....\$34.20

J-B-T METERS AND AMPROBE TESTERS

NEW POMONA 30 KV TEST PROBE WITH BUILT-IN METER



TESTS HI-VOLTAGE ON ANY COLOR
OR BLACK & WHITE TV SET

\$19.95

Easy to operate, just ground clip to chassis, contact test probe tip to high voltage being measured and read built-in meter. No warm-up or batteries required. Length 14 3/4". Specifications: Range: 30,000 volts DC. Sensitivity: 20,000 ohms/volt (50 ua) movement. Accuracy: ± 3% full scale. Multiplier Resistance: 600 megohm ± 2%. Material: Handle—high impact thermo plastic. Probe—high impact polystyrene. Shpg. wt. 8 ozs. **No. 35A8013. Each. \$19.95**

JBT ELAPSED TIME METERS

Indicates accumulated operating time of AC electrical and electronic equipment. Registers 1/10 hour steps. For 110-125 VAC, 60 Hz. Shpg. wt. 1 1/4 lbs. ① Model 31EGW-5. Rectangular modern design. Clear plastic front. 5 wide digits register to 9,999.9 hours. Resets automatically. 3 1/2 x 3" H. Mounts in 2 3/4" dia. hole. **No. 35A6158. Each. \$22.60**

Model 13A234. Half Bezel Adaptor for mounting meter behind panel. Black molded frame and howe. for picture window effect. Outlines 3.83 x 2.27" dial area of 31EGW-5 Meter. **No. 35A6155. Each. \$1.90**

② Model 31-EX. Registers to 9,999.9 hours total, then resets to zero automatically. In round 3 1/2" black molded case. Mounts in 2 3/4" hole. **No. 35A6161. Net Each. \$19.10**

WIDE-NUMERAL ELAPSED TIME METERS

③ Model 31-EXW6 Digit. Easy to read wide numerals register to 99,999.9 hours. Tenths are red on white, units white on black. Resets to zero automatically. Black molded case 3 1/2". Mounts in 2 3/4" hole. **No. 35A6162. Net Each. \$19.50**

JBT FREQUENCY METERS

④ Model 34FG. 9 Reeds 56-64 Hz. 100 to 130 Volts. Accuracy ± 3%. Rectangular modern design. Clear plastic front. Power Consumption 9 watts. Mounts in 2 3/4" Dia. hole 3 1/2" x 3" H. **No. 35A3058. Each. \$33.90**

Model 13A234. Half bezel adaptor for mounting meter behind panel. Black molded frame and hardware for picture window effect. Outlines 3.83x2.27" dial area of 34FG meter. **No. 35A6155. Each. \$1.90**

⑤ Model 34FX. 9 Reeds 56-64 Hz. Accuracy ± 3%. 100 to 130 volts. 140 ohms per volt. 9 watt power consumption. 3 1/2" molded case, mounts in 2 3/4" hole. **No. 35A6163. Each. \$31.60**

⑥ Model 31FX. 5 Reeds 58-62 Hz. 100-130 volts. Accuracy ± 3% for measuring frequency of power source. Molded bakelite case 3 1/2". Mounts in 2 3/4" hole. **No. 35A6164. Each. \$27.40**

SHURITE BATTERY TESTERS

No. 4128 BATTERY TESTER. Has two scales, 0-50 volts and 0-2 volts. 2 1/4" diameter, 3/8" thick, bright nickel finished. Shpg. wt. 8 oz. **No. 35A3002. Net Each. \$5.10**

No. 4123 FOR ALL RADIO AND HEARING AID BATTERIES from 1.5 to 45 volts. Scale has green zones to indicate satisfactory condition of batteries in these voltages 1.5, 15, 22.5, 30, 33, 45. Tests are made under normal operating load for each battery assuring a true indication of battery condition. Shpg. wt. 8 oz. **No. 35A3003. Net Each. \$5.10**

No. 4152 TRANSISTOR BATTERY TESTER. 0-2-10 voltage scale. For the new Mercury cells and transistor batteries. Indicates battery strength with a minimum consumption of power. Shpg. wt. 8 oz. **No. 35A3004. Net Each. \$5.10**

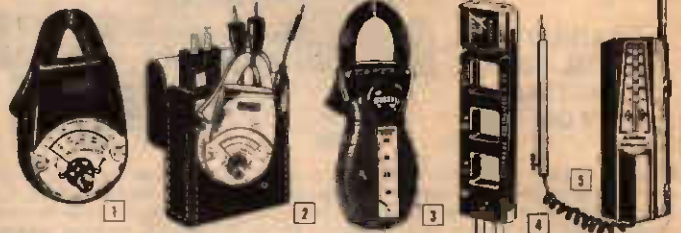
No. 5406LT AC LINE TESTER. Consists of 0-150 volt AC Meter with combination plug and receptacle connected to meter permanently by a cord. Reading may be taken with and without appliance plugged in. Wt. 1/2 lb. **No. 35A3005. Net Each. \$5.20**

LIGHTING LEVEL INDICATOR

A handy pocket-size meter (3 1/4" X 2 1/2" X 1 1/2") for checking the lighting level of various working areas. Simply place the meter on bench, desk, or other working surface, and it quickly shows whether the light level is adequate for efficient operation, or whether eye strain or fatigue may result because the level is too high or too low. Shielded to minimize the effect of external magnetic influences. **No. 35A6202. Shurite 7902 FC. Each. \$10.05**



AMPROBE INSTRUMENTS



Snap around type Volt-Ammeter. Close the probe jaws around conductor of the circuit under test and read current directly on meter scale. Voltage checks are made by the use of safety type leads. It is possible to safely and accurately determine load condition of equipment without shut down.

① POPULAR PRICED AMPROBE JUNIOR

Measures current and voltage, is small in size, convenient to carry and use. Size 2 1/2 x 4 3/4 x 1". Wt. 11 oz. Accuracy ± 3% full scale. Maximum conductor size for current measurements is 1/2 inch. With test leads. **35A3066. Model Y550. For 0-50 Amps AC, 0-150-500 Volts AC. 35A308. Model Y500. For 0-100 Amps AC, 0-150-600 volts AC. YOUR CHOICE EACH. \$25.85**

Two current ranges and two voltage ranges in one instrument. Change ranges by pressing a button. **No. 35A3023. Model YT1025. 0-10/25 Amps, 0-150/300 Volts AC. No. 35A3024. Model YT25100. 0-25/100 Amps, 0-100/300 Volts AC. Your Choice, Each. \$30.85**

② AMPROBE JR. TESTMASTER KIT IN LEATHER CASE

Measures 0-150/600 AC volts, 0-100 AC Amps, and resistance instantly within 3% accuracy. 25 ohm mid-scale. Ohmmeter measures resistance with plug-in battery attachment. Complete kit includes Amprobe Jr., Energizer (described below), Battery Attachment, safety Test Leads and Leather Case. Wt. 1 lb. **No. 35A346. TM-YO-500. 0-100 Amps. Net Each. \$41.85**

③ AMPROBES MOST POPULAR MODEL RS-3

Does 3 jobs, measures amperes, volts and ohms resistance. AC amp. ranges 0-6/15/40/100/300. AC volts 0-150/300/600. Ohms scale reads 25 ohms mid-scale, 2000 ohms full scale. Most complete tester available. With leather carrying case and test leads for voltage and resistance measurements. **No. 35A581. Wt. 12 oz. Net Each. \$59.85**

Replacement All-Weather Test Leads for RS-3 **No. 35A8071. VL-11R. Each. \$3.00**

④ Model A45L Energizer divides Amprobe current reading by 5X and 10X for checking low current equipment. Also divides line cord so Amprobe may be used for current or voltage checks without having to split line cord. With weatherproof pouch, Wt. 3 oz. **35A310. Model A45L. Each. \$7.85**

④ AMPROBE VOLTPROBE VOLTAGE TESTERS

Indicates 115, 220, 277, 440 and 550 volts AC and 115, 220, 400, 600 and 750 volts DC. Sliding probe pushes up through body and a retractable probe with coil cord allows measurement of points over 3 feet apart. Light indicates voltage. Indicates grounded side of line or DC polarity. Frequency 25 to 800 cycle range. Buzzer indicates frequency. 6x2 1/4 x 3/4" with probes retracted. Wt. 5 ozs. **No. 35A8030. VT-100. Voltprobe. Each. \$9.50**

Indicates 24, 48, 115, 220, 277, 440, 550 VAC only. Other features same as VT-100 above. **No. 35A8070. VT-124. Each. \$14.85**
No. 35A8031. VC Case. Each. \$2.75

AMPROBE FASTEMP INDUSTRIAL THERMOMETER

Fast, measures temperature in seconds. Compact fits palm or pocket. Lightweight—weighs only 10 ozs. Accurate: within ±2° F or ±1° C. Versatile... check surface, liquid or gaseous temperatures.

Unique "press-to-read" button greatly extends battery life, "locks-in" for continuous readings. Range overlap permits monitoring of changing temperature without frequent switching of ranges. Accommodates 3 probes simultaneously. Selector switch enables you to activate any one of them instantly. One universal RBT-12 probe supplied. All probes have 15 ft. lead. **Fahrenheit Model T-150. -50° F to +50° F, +40° F to +150° F. No. 35A3084. Each. \$44.85**

No. 35A3085. Centigrade Model T-150C. -45° C to +10° C, +6° C to +65° C. Each. \$44.85

No. 35A8037. Universal Surface Probe. RBT-12. Each. \$8.95
No. 35A8036. Immersion Probe. RBT-11. Each. \$8.95
No. 35A8038. Air Probe. RBT-13. Each. \$8.95
No. 35A3092. FTC Carrying Case. Holds Fastemp and Probes. Each. \$9.85
No. 21A3. Penlight Battery (requires 4) Each. \$17.00

MURA THERMY THERMOTESTER INSTANT TEMPERATURE READINGS

Reads out in seconds upon physical contact. Accurate, durable. Use with VTVM or multimeter. Translating scale to convert meter reading to Fahrenheit or Centigrade degrees on thermotester and on carrying case which is included. 42" leads with phone tips. Temperature range -50° to 200°C or -60° F. to 400° F. **No. 35A3064. Each. \$14.95**



TRIPLETT TESTERS AND KURZ-KASCH LOGIC PROBES

TRIPLETT MODEL 8035 DIGITAL VOM



Easy operation - single polarized plug for test leads eliminates switching leads when changing functions. Low power consumption - less internal heating for greater stability and reliability. Low circuit loading - greater measurement accuracy with 10 megohm input resistance for all AC and DC voltage ranges. 199.9 mv max. voltage to resistor under test on 12 ohm DC range. Out of range indication. Polarity indication. High input resistance to make it nearly foolproof. With 26 ranges, the Model 8035 boasts accuracies from $\pm 0.1\%$ to $\pm 0.5\%$ of reading ± 1 digit. Bright, reflection-free readability. Size 8-1/8 x 10 x 3 1/2". Shpg. wt. 4 1/2 lbs.
No. 35A3113. Model 8035. Ea. **\$385.00**

TRIPLETT FET VOM'S



801 V-O-M WITH LOW POWER OHMS

Offers 73 measurement ranges including 8 low-power resistance ranges that apply only 35 mV to the device under test. The full scale ranges are: 10 from .05 to 1500 VCD, 11 from .005 to 1500 VAC, 12 AC and 12 DC ranges from 5 uA to 1.5 A, 7 resistance ranges from 1000 ohms to 1000 megohms at 1.5 V, and 8 low-power ranges from 100 ohms to 1000 megohms at 35 mV, and 12 ranges of output measurement from -70 to 60db. Offers 11 megohm DC and 10 megohm AC input resistances, 2% DC and 3% AC voltage accuracy and a 25 uA suspension-type meter with a nearly 7 1/2" scale length. Designed with features to protect its highly sensitive meter. One probe is used for all functions; DC, AC, MA and Ohms.

Black molded case with aluminum panel. 8 X 7 X 5". With shielded probe, input cable, ground lead, 2 alligator clips, batteries and manual. Shpg. wt. 8 lbs.

- No. 35A3086. Model 801. Each. **\$210.00**
- No. 35A8040. 10-2467. Carrying Case \$32.60
- No. 35A8041. 79-292. High Voltage Probe \$26.50
- No. 35A8042. 79-289. RF Detector Probe \$10.00
- No. 35A8043. 91-620. Shunt Adaptor \$10.50

601 V-O-M WITH LOW POWER OHMS

11 megohm input on all DC and 10 megohm input AC, low power ohms feature to prevent damage to integrated circuits. In-circuit resistance measurements can be made without usual diode or transistor loading. Push-button switches select; DC volts (+) ohms; DC volts (-) ohms; AC volts and low power ohms.

53 Test Ranges Include: DC Volts: 0 - .1 - .3 - 1 - 3 - 10 - 30 - 100 - 300 - 1000.

AC Volts: 0 - .01 - .03 - .1 - .3 - 1 - 3 - 10 - 30 - 100 - 300 - 1000. Ohms: 0-1K-10K, 100K, 1 meg, 10 meg, 100 meg, 1000 meg, 10 ohm center scale on low range. Both conventional (1.5 V) and low power.

AC-DC Current Ranges: .01 - .1 - 1 - 10 mA.

11 DB Ranges: -60 db. to +62 db in 10 db. steps. Off and battery check. Accuracy $\pm 2\%$ full scale on DC Volts and $\pm 3\%$ on AC volts 5" meter. Uses 10 AA penlight cells (included). With slim shielded probe and instructions. Size 3-3/16 x 5-1/8 x 6 1/2". Shpg. wt. 5 lbs.

- No. 35A3011. 601 Solid State VOM. Net Each. **\$166.00**
- No. 35A8026. T 79-270. Hi-Voltage Probe. Each \$27.80
- No. 35A8027. T-79-271. RF Probe. Each \$10.00
- No. 35B68. 639-05. Black Leather Carrying Case. Each \$16.20

603 VOM WITH MICRO POWER, LOW POWER OHMS AND AUTO POLARITY

Triplet Micro Power provides battery life in excess of a year for carbon batteries. Auto Polarity always reads up scale. 11.12-Megohm DC input, 10 megohm AC input. Full scale ranges are 7 from .3 to 1000 DC Volts and AC volts, 6 from 1000 ohm to 1000 meg, low power ohms and conventional ohms, 4 from 1 to 1000 AC and DC milliamperes, decibels from -30 to +62. $\pm 3\%$ accuracy all voltage and ohms ranges, $\pm 4\%$ accuracy all current ranges. Diode overload protected suspension movement. Size 5-1/8" x 3-3/16" x 6-1/2". With 2 9 Volt and 1 "D" cell, leads and manual. Shpg. wt. 3 lbs.
No. 35A3133. Model 603. Each **\$150.00**

- 602 VOM Same ranges, accuracy, and features except does not include low power ohms.
- No. 35A3087. Model 602. Each \$105.00
- No. 35A8044. 101-793. Carrying Case. Each \$16.20
- No. 35A8026. 79-270. High Voltage Probe \$27.80
- No. 35A8029. 79-264. RF Probe \$10.00

TRIPLETT MODEL 6028 DIGITAL VOM

2 1/2 Digits High accuracy, resolution to 500 uV. 7 ohms ranges with zero adjust to null lead resistance. 1 volt max. across resistor under test except 10 ohms range is 100 mV. 27 total ranges. Low circuit loading - greater accuracy with 10 meg input resistance for AC and DC volts ranges. 2 1/2 digit readout lets you read to the nearest "0" or "5", one decimal place beyond 2 1/2 digit instruments. Accuracies of $\pm 0.35\%$ of reading $\pm 1/2$ digit on DC volts ($\pm 0.50\%$ of reading $\pm 1/2$ digit, DC current), AC volts $\pm 0.50\%$ (current 1.0%) of reading $\pm 1/2$ digit, and resistance to $\pm 0.5\%$ of reading $\pm 1/2$ digit. 100% overrange capability, out-of-range and reverse polarity indication. Size 5-1/8 X 3-3/16 X 6 1/2". Shpg. wt. 4 lbs.
No. 35A3112. Model 6028. Each **\$275.00**



WORLD'S MOST POPULAR MINIATURE MULTIMETERS

- Handsize.
- Weighs only 14 oz.
- One selector switch.
- Unbreakable plastic.
- Provision for clamp-on ammeter.



310 FET ALL SOLID STATE FET VOM

Field-effect-transistorized circuitry, 10 megohm input on all DC voltage ranges, sensitivity ten times greater than many conventional VTVM's and ohms reading to 5000 meg. Taut suspension movement, Accuracy $\pm 3\%$ of full scale on DC, and $\pm 4\%$ on AC. Battery check position. High sensitivity (300 mV fs) allows transistor bias measurements. Zero center for null measurements. Six DC volt ranges: 0-.3, 1.2, 6, 30, 120, 600 at 10 megohms. Five AC volt ranges: 0-.3, 12, 60, 300, 600 at 5,000 ohms per volt. Four resistance ranges: 0-5K, 500K, 50 Megohms, 5,000 Megohms at 50 ohms center scale. Two DC current ranges: 0-.12, 1.2 milliamperes at 300 mV. 2 3/4 x 4 1/4 x 1 1/2. With 42" leads and batteries.

No. 35A3057. Wt. 14 oz. Each **\$78.00**

MODEL 310 POCKET SIZE V.O.M.

Only 2 3/4" x 4 1/4" x 1 1/4". Plastic face meter fits in shirt pocket or in leather case with belt clip (listed below). Complete miniature 20,000 ohm per volt meter, 5 DC volt ranges 0-1200. AC - 5 ranges 0-1200 volts at 5 K ohms per volt. Microamperes 0-600. DC mls 3 ranges 0-600, ohms 0 to 20 K. -200 K. Megohms 0-2 and 0-20. Accuracy 3% DC, 4% AC. Has 24" test leads and removable negative or common test prod at meter end. Complete with test leads and battery. Wt. 14 oz.

No. 35A352. Net Each. **\$46.00**

No. 35A353. Model 369 Carrying Case for 310 Meter. Each \$4.60

ACCESSORIES FOR 310 FET AND 310

- Model 10 Clamp-on Adaptor. Adapts Model 310 or 310 FET for checking AC line loads up to 300 amps without breaking circuit or interrupting work. No. 35A100. Complete ready to use. Each \$21.00
- No. 35A101. Model 101 provides line separation and increases ammeter sensitivity X10 and X20. Complete with instructions. Each \$8.40
- No. 35A8045. Replacement Leads for 310 Meter. Each \$3.60

TRIPLETT MODEL 630 MULTIMETER

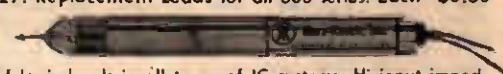
Proven dependability over a long period of time 20,000 ohm per volt sensitivity DC and 5000 ohms AC. Accuracy 2% DC and 3% AC. Voltage ranges 0 - 3 - 12 - 60 - 300 - 1200 - 6000. Ohms 0 - 1000 - 10,000. Megs 0 - 1 - 100. DC microamps 0 - 60. DC milliamps 0 - 1.2 - 12 - 120 at 250 millivolts. DC amperes 0 - 12. DB -20 to +77. Output volts 0 - 3 - 12 - 60 - 300 - 1200. Size 3 1/2 x 5 1/2 x 7 1/2". Wt. 4 lbs.

No. 35A170. Model 630. Complete with leads. Net Each **\$67.00**



- No. 35B68. 639-05. Black Leather Carrying Case for all 630 and 631. Permits use of instrument in case. Has built-in stand. Each \$16.20
- No. 35A8010. T79-127. Replacement Leads for all 630 series. Each \$3.60

KURZ-KASCH LOGIC PROBES



Fast, accurate testing of logic levels in all types of IC systems. Hi input impedance at the logic "1" level prevents loading of circuit. Power is derived from equipment being tested. Readout light red = Logic "1", Readout light white = Logic "0", no Readout = "infinity", Readout light blue = "pulse". Overload protection - continuous plus 50 VDC, intermittent minus 20 VDC. Size: 9/16" dia., 6" long. 26 3/4" leads with pin terminals.

- LP-510 for 4.75-5.5 VDC Logic Systems. No pulse readout. No. 35A8063. Each **\$44.95**
- LP-520 for 4.75-5.5 VDC Logic Systems. Pulse detection response of 50. Nano-seconds or greater. Pulse stretcher remains on for 200 milliseconds. No. 35A8065. Each \$69.95

LP-520 PROBES WITH ADDITIONAL FEATURES

- No. 35A8068. LP-520M Memory Mode latches blue readout on until reset. Push-pull switch selects memory or stretch mode. Each \$79.95
- No. 35A8069. LP-520G 3 Channel Input simulating a 3 input oscilloscope. Each \$79.95
- No. 35A8064. LP-520S 5 Nanosecond Pulse Detecting Capability. Each \$79.95
- NOTE: M, G or S features available on special order in any combination on LP-520 Probes. Add \$10.00 to LP-520 price of each feature wanted.
- No. 35A8066. LP-530 For 12-15 VDC Logic Systems. No pulse readout. Ea. \$44.95
- No. 35A8067. LP-540 For 12-15 VDC Logic Systems. Pulse detection response of 50 Nanoseconds or greater. Pulse stretcher remains on for approx. 200 Milliseconds. Each \$69.95

Simpson TESTERS AND JBT METERS

SIMPSON 313 SOLID STATE VOM

Operates for over 300 hours on a single 9 volt battery. Battery condition checked instantly. Self-shielding movement is shockproof and overload protected. All voltage range inputs are fully protected, too. Even AC line voltage can be applied on ohms ranges without damage to the Field Effect Transistor input. 7" Scale. Voltage Ranges: DC: 0-0.3, 1, 3, 10, 30, 100, 300, 1000 volts (11 meg input impedance); AC: 0-0.3, 1, 3, 10, 30, 100, 300, 1000 volts (10 meg input impedance); Current ranges: DC: 0-0.1, 1, 10, 100, 1000 milliamperes; Resistance ranges: RX1 (10 ohm center), RX10, RX100, RX1K, RX10K, RX100K, RX1M. Frequency response: ± 0.5 db from 20 Hz to 100K Hz on 0-0.3, 1, 3 volt ranges; ± 0.5 db from 20 Hz to 20K Hz on 0-10, 30, 100 volt ranges. Accuracy: DC 3% of full scale; AC $\pm 3\%$ of full scale. Resistance: $\pm 3\%$ of arc. Size: 7 3/4" W. X 6 3/4" H. X 3 3/4" D. Shpg. wt. 6 lbs. Complete with batteries, isolating probe and operator's manual.



- No. 35A3020. Model 313. Each \$130.00
 No. 35A3021. 00577 Carrying Case for above. Vinyl with lead storage space. Net Each \$17.00
 No. 35A8024. 00191 RF PROBE \$11.75
 No. 35A8025. 00192 HI Voltage Probe \$19.00

SIMPSON 160 HANDI-VOM FULL FEATURED . . . YET PALM SIZED!

All the time saving conveniences and the sensitivity of a full-sized VOM, yet only 4 9/16 x 3 5/16 x 1 3/4" and weighs only 12 oz. Features self-shielding taut band movement, diode overload protection to prevent burnout. Accuracy $\pm 2\%$ FS DC, $\pm 3\%$ FS AC. Ranges DC volts; 0-0.25, 1.0, 2.5, 10, 50, 250, 500, 1000 at 20,000 ohms per volt. AC volts 0-2.5, 10, 50, 250, 500, 1000 at 5000 ohms per volt, DC microamps 0-50, DC MA 0-1, 10, 100, 250, 500. Resistance RX1, RX10, RX100, RX1000, RX10K 30 ohm center scale. DB -20 to +50 in 4 ranges. Shpg. wt. 1 lb. With batteries, leads and instructions.



- No. 35A664. Model 160. Net Each \$57.50
 No. 35A665. 2225 Leather Carrying Case Shpg. wt. 1 lb. Each \$11.00

SIMPSON 885 SOUND LEVEL METER

Quickly and accurately measures noise and sound levels anywhere in accordance with government requirements. Palm-sized, easy to operate, professional solid state device gives full coverage 40 to 140db sound measurement. Push-buttons select A, B, or C weightings plus fast/slow meter response and battery check. Rugged calibrated ceramic microphone built into high-impact polycarbonate case. Output jack permits use with recorders and analyzers. 1.2 Vrms output, 620 ohms. Adjustable calibration. Can be mounted on tripod. Requires two 9 V. batteries (below) Size (approx.) 3 3/4 W X 5 3/8 H X 2 3/32" D. Shpg. wt. 1 1/2 lbs.



- No. 35A3128. Each \$250.00
 No. 21A141. 9. V. Battery (requires two) Each \$4.00
 No. 35A3130. Wrist Strap Each \$2.50
 No. 35A3129. Carrying Case Each \$9.50

MERCURY MODEL 990 TUBE TESTER -ONE YEAR GUARANTEE

Full Cathode Conductance Test on all tubes: Magnoval, Novar, Decal, Compactron, Nuvistor, Octal, 9-10 pin, 7 pin.

Complete and comprehensive test instructions included. Important Cathode to G1 and Cathode to filament leakage and/or shorts is quickly indicated. Complete element-to-all other-elements short tests can be quickly and easily accomplished on all tubes by 12 circuit slide-button Master switching system. 115 V. 50/60 Hz. Molded case, 6 1/2 x 7 1/2 x 3 1/2". Weight 4 1/2 lbs.



- No. 35A705. Model 990 Kit With Complete Instructions \$27.95
 No. 35A3029. Model 990 Factory Wired \$34.95

MERCURY MUTUAL CONDUCTANCE TUBE TESTER

ENGINEERED TO TEST ALL THE LATEST TUBE TYPES . . . PLUS TRANSISTORS

-ONE YEAR GUARANTEE



Tests all tube types, old and new, including the new Magnovals, new 7-pin Nuvistors, new 10-pin Decals, Compactrons, Novars, 10-pin types, foreign and hi-fi tubes, voltage regulators, thyristors and industrial tube types. Tests transistors. Tests tubes for true dynamic mutual conductance (Gm). Tests for shorts, leakage and gas. Lever switch test principle overcomes obsolescence. Automatic line voltage regulation. Long lasting phosphor bronze tube sockets. Two tone aluminum panel. Size: 18 1/4 x 10 3/4 x 4 3/4". Shipping Wt. 12 1/2 lbs.

- No. 35A3027. Model 2000, Wired. Each \$129.95
 No. 35A8015. MH3A Multi-Head CRT Adaptor for Testing Color and Black and White Picture Tubes. Each \$24.95

***ONE YEAR GUARANTEE** on all Mercury Test Instruments. One year unconditional guarantee from date of purchase on parts and workmanship under normal usage. Defective units will be repaired on return to factory.



QUALITY INSTRUMENTS TAUT BAND MOVEMENT WORLD FAMOUS 260, 261, 270 AC/DC MULTIMETERS



- RUGGED AND DEPENDABLE MODEL 260-6**
 High sensitivity (20,000 o.p.v. DC Volts; 5000 o.p.v. AC Volts)
 Varistor protects the movement from even 200,000% overloads. Self shielding and shockproof 50 microampere movement. DC volts ranges 0-25, 1, 2.5, 10, 50, 250, 500, 1000 volts; AC volts ranges 0-2.5, 10, 50, 250, 500, 1000; DC current ranges 0-50 microamps, 0-1, 10, 100, 500 M.A.; 0-10 Amps; 4 DB ranges from -20 to +50 db; Resistance readings 1/2 ohm to 20 meg. 5" meter. .1 mfd capacitor in series with all AC voltage ranges through 250 volts. Accuracy 2% full scale DC ranges; 3% full scale AC. With combination alligator clip and probe tip test leads, batteries and manual. 5 1/2 x 7 x 3 1/8". Wt. 5 lbs. **\$68.50**
 No. 35A60. Simpson Model 260-6. Net Each
 No. 35B61. Model 260-6M. With Mirrored Scale, knife edge pointer. Net \$71.50
 No. 35B51. Model 260-6RT. in Protective Roll Top Case. Wt. 9 lbs. Net \$74.50

"GOOF-PROOF" PROTECTED MODEL 260-6P

All of the features of the 260-6 plus built-in circuit protection makes this VOM "goof-proof." Ideal for students, apprentices, for exploring unfamiliar equipment. Combined protection includes: reset button pops out to indicate overload, cannot reset circuits while overload is present. Protective circuit does not require massive overloads, all ranges protected except 1000 volts DC and AC, 10 amps DC.
 No. 35C24. Model 260-6P. Net Each **\$99.50**

HIGH ACCURACY MODEL 261-2

All of the features of the 260-6M plus special calibration circuits and components for outstanding accuracy. Accuracy 1.5% full scale most DC ranges, 3% full scale AC. Wt. 5 lbs.
 No. 35B50. Model 261-2. Net Each **\$76.50**

MODEL 270-4 MULTIMETER

HAS TAUT BAND SELF SHIELDING ANNULAR MOVEMENT

The Extra Quality Laboratory Instrument featuring: • Greater accuracy. • special calibration circuit for greater accuracy, overload protected • DC accuracy 1 1/4% full scale 20,000 ohms per volt. • AC accuracy 2% full scale 1000 ohms per volt.
 • Mirrored scale. • Knife-edge pointer. • Ranges: 7 DC volts from 250 MV to 1,000 volts. • 6 AC volts from 2.5 to 5000 volts. • AC volts (output) 4 ranges 2.5 to 250 volts. • Decibels -20 to +50 in 4 ranges. • DC current 50 ua to 10 amps in 6 ranges. • DC resistance from 0-2000 (12 ohms center) to 20 megohms in 3 ranges.
 Black molded case 5 1/4 x 7 x 3 1/8". Wt. 5 1/2 lbs.
 No. 35A41. Model 270-4 Net Each **\$81.50**

CARRYING CASE FOR 260-270

- No. 35A165. Model 0805. Ever-redy vinyl. Wt. 1 lb. Net Each \$15.50

5KV HIGH VOLTAGE PROBE

5000 volt AC or DC safety probe for use with 260, 261, and 270 Multimeters.
 No. 35A8057. 00505 AC 5KV Safety Probe. Each \$4.50
 No. 35A8056. 00506 DC 5KV Safety Probe. Each \$4.50

AMP-CLAMP PLUG-IN ADAPTER FOR AC AMPERE MEASUREMENTS

Allows measurement to be made without breaking circuit being tested. Simply plugs into 260, 261, 270, 250 or 255 VOM. Ranges: 0-5, 10, 25, 50, 100, 250 AC Amperes. Readout is on VOM's 0-2.5 VAC scale. May be used with any VOM having 0-2.5, or 0-3 VAC range. (When used with 0-3 VAC adapter ranges are from 0-6 to 0-300 AC amperes). Rugged construction, and easy to use. Wt. 1 lb.

- No. 35A3019. Model 150. Net Each **\$30.00**
 Carrying Case for amp. clamp.
 No. 35A8023. 0548 \$8.00



SIMPSON 460 PORTABLE DIGITAL VOM



High accuracy, multiple range testing with non-blinking 3 1/2 digit display. Front panel analog meter readout shows peaks or nulls at a glance. Self contained battery or 117 Volt line operation. Operates up to 8 hours on 4 nickel cadmium rechargeable D cells (not supplied), recharge automatically when using on AC line. Instant readout—no warm-up required. Automatic + or - and overrange indication.
 28 Switch-Selected Ranges. SAC and DC voltages . . . 5 AC and DC currents . . . and 6 resistances . . . with accuracy from $\pm 0.1\%$ of reading, ± 1 digit. Die-cast aluminum case. Size: 4 1/2 x 8 1/2 x 7 7/8". Shipping weight 6 lb. 8 oz. With batteries 9 lbs. **\$400.00**
 No. 35A3108. Each
 No. 21A234. CH4. 4 Amp Hour Nickel Cadmium Rechargeable Battery (Requires 4). Each **\$6.97**

EICO TEST INSTRUMENTS WIRED OR KITS

EICO 460 WIDEBAND DIRECT-COUPLED 5" SCOPE



For color and B&W TV servicing and production line testing, excellent for audio and industrial work. Push-pull (3 stages) and direct-coupled vertical amplifier. Internal calibration voltage and frequency-compensated decade attenuator, DC or peak-to-peak AC measurements from 25 MV to 500V. Drift-free positioning centers any part of an expanded trace. 60 Hz output jack, sawtooth (sweep) output jack, intensity modulation (Z axis) input jack, and external capacitor jack for very low frequency sweeps on the front panel. Automatic sync limiter and amplifier eliminates sync voltage adjustment. Full retrace blanking. Edge-ill calibration grid.

Specifications: Vertical Amplifier: Frequency response: DC to 4.5 MHz (useful to 10 MHz); sensitivity 5 MV; input impedance 3 M ohm/35pf. Horizontal Amplifier: Frequency response 1 Hz to 400 KHz, sensitivity 0.24 v rms/cm; input impedance 5 M ohm/35pf. Sweep Ranges: 10-100, 100-1K 1K-10K, 10K-100K Hz; plus EXT-CAP position for very low frequency sweeps with external capacitor. TV-V position (30 Hz) and TV-H position (7875 Hz). Synchronization: internal, external, or line frequency. Power Requirements: 117 VAC, approx. 95 watts. Size: 13" x 8 1/2" x 16". Weight: 25 lbs.

No. 35A335. Model 460K Build-It-Yourself Kit. **\$109.95**

No. 35A336. Model 460 **\$159.95**

Factory Wired and Tested. Net Each

SCOPE PROBE KITS

35A119. PSDK Demodulator probe use for signal tracing. Range: 250 MHz **\$4.95**
 35A287. PDK Direct tracing in low Z circuits eliminates stray pickup **\$3.95**
 35A288. PLCK Low capacity for waveform tracing in wide-band circuits **\$4.95**



MODEL 147

DELUXE SIGNAL TRACER

- Has both visual and aural signal monitors.
- RF channel gain permits tracing up to receiver input.

For RF-IF and audio signal tracing in TV, RF and AM receivers. Visual (tuning eye tube), and aural (speaker), indication of the signal. High RF sensitivity. Noise locator detects noisy resistors, condensers, cold solder joints. Two probes and ground leads with individual panel receptacles for easy change-over from RF to audio. Size 8" x 10" x 4 3/4". Wt. 10 lbs.

35A275. Model 147K. **\$39.95**

Complete Kit

No. 35A276. Model 147. **\$59.95**

Factory Wired



MODEL 377 AUDIO GENERATOR

For servicing, testing and designing amplifiers, speakers, etc., used in HI-FI and public address systems. Uses Wien Bridge oscillator circuit. Ranges; sine wave 20-200,000 Hz, square wave 60-50,000 Hz. Accuracy 3% or 1 Hz, output 10 volts across 1000 ohms, constant output over wide frequency range. For use on 117 V. AC 50-60 Hz. Gray wrinkle steel case. 7 1/8" x 11 1/8" x 7 3/8". Wt. 14 lbs.

35A586. Model 377 Kit. **\$49.95**

Net Each

No. 35A587. Model 377. **\$64.95**

Factory Wired. Net Each



MODEL 324 RF SIGNAL GENERATOR

A low priced, high quality generator, with frequency range for servicing color and B&W TV, FM and AM radio. Covers 150 KHz to 435 MHz in 7 bands, to 145 MHz on fundamentals, with $\pm 1.5\%$ accuracy. Has 400 Hz internal modulation; 6 to 1 vernier dial; coarse and fine RF attenuators; external modulator amplifier; Gray wrinkle finished cabinet, 8 x 10 x 4 3/4". For 117 VAC. Wt. 8 lbs.

35A331. Model 324K. Kit. **\$39.95**

Model 324. Factory wired ready to use.

35A330. **\$54.95**

Net Each



950 R-C BRIDGE & R-C-L COMPARATOR

A professional quality instrument for all resistance 0.5 ohms to 500 meg, and all types of condensers from 10 pf. to 5000 uf. Built-in variable DC voltage source of 0-500 volts tests condensers for leaks, power factor, polarity. All resistance-capacity ranges calibrated on panel! Precision Magic eye indicator tube. Size 10" x 8" x 4 3/4". Wt. 8 lbs.

35A142. Model 950K. **\$34.95**

Parts Kit. Net

Model 950. Factory Wired. **\$49.95**

35A144. Net Each



EICO 667 DYNAMIC CONDUCTANCE TUBE & TRANSISTOR TESTER

Tests: 5 & 7-pin nuvistor, 7-pin miniature, 8-pin subminiature, octal, loctal, 9 and 10-pin miniature, novar and compaction. Tests many small transmitting and special purpose tubes and transistors. Two-step test for both npn and pnp signal transistors.

Dynamic conductance tube test is a composite indication of mutual conductance, plate conductance, and peak emission capability.

Leakage short test is direct-reading of inter-element leakage up to 20M ohm. DC leakage test voltage is always applied in correct polarity to eliminate emission effects from readings. Multi-section tubes have each section individually tested by rapid selection from 12 push button transfer switches while all sections are simultaneously drawing full rated current. Line-adjust rheostat. Gear-driven roll chart mechanism. 105-135 volts AC. Provided with pilot lamp and fuse. 12" x 15" x 4 1/2". Weight: 22 lbs.

No. 35B381. Model 667. Complete Kit. **\$99.95**

No. 35B380. Model 667. **\$149.95**

Factory Wired Ready to Use

CRU ADAPTOR for testing color and B & W picture tubes with Model 667 Tube tester.

No. 35B389. CRU Adapter **\$9.95**



EICO 635 DELUXE PORTABLE TUBE TESTER

Fast check all standard tubes including the new decals, magnovals, 7 pin nuvistors and popular picture tubes. Tests for dynamic cathode emission, grid leakage, gas and shorts. 3 1/2" D'Arsonval meter protected against accidental overload or burnout. Long-lasting anti-corrosion phosphor bronze sockets, transformer isolation power supply. Pin straighteners on front panel. With tube manual.

Luggage carrying case, 4 x 12 1/2 x 9".

Wt. 4 1/2 lbs.

No. 35A703. 635K Kit **\$49.95**

No. 35A3055. 635 **\$79.95**

Wired Ready to Use. Each



IN-CIRCUIT CAPACITOR TESTER

Eico 955. Accurate bridge type in-circuit or out-circuit capacitor tester. Function: tests capacitors for shorts or opens and measures capacity from .1 to 50 uf. $\pm 10\%$. Has a two range RC balance dial range from .6 to 10.5, 7 to Infinity. 60 Hz test voltage maximum 6.3 V. AC. Bar Indicator provides sharp accurate readings. Operation 117 volt AC. Has line adjustment. Complete with leads, instructions. 8 1/2" x 5 3/4" x 6". Wt. 6 lbs.

No. 35B324. Model 955K Kit. Net. **\$34.95**

No. 35B323. Model 955 Wired. Net. **\$49.95**

EICO 1140 RC NETWORK BOX

Switches permit selection of any resistance alone, any capacitance alone, or any combination of resistance and capacitance in series or parallel (1350 combinations). Open and short circuit positions are provided.

Provides a rapid selection of resistance values in decade multiples of 15, 22, 33, 47, 68 and 100 providing 15 ohms to 10 meg. variation with standard 1 watt 10% resistors, 18 capacitors from .0001 to .22 uf. rated at 400 volts

35A582. Model 1140K. **\$19.95**

Complete Kit. Net Each

35A583. Model 1140. **\$29.95**

Factory wired & Tested, Net Each



EICO 443 TRANSISTOR-DIODE CURVE TRACER

Makes it possible for any general purpose oscilloscope to display direct readouts of most meaningful data.

Solid state printed circuitry with dual transformers for isolation and safety. Flashing light indicates high voltage at diode test terminals. Matching switch for comparing and matching transistors. Diode and rectifier characteristics that can be tested include forward voltage (V), forward current (I), reverse current (Ir), and peak inverse voltage (PIV).

The PIV test voltage is variable from 0-1400v. Transistor tests include standard transistor parameters.

117VAC Size 3" X 11 1/2" X 9 1/2". Wt. 10 lbs. 3 wire line cord. **\$99.95**

No. 35A712. Model 443K Complete Kit

No. 35A3109. Model 443 Factory Wired. **\$149.95**



EICO TEST INSTRUMENTS, WIRED OR KITS

EICO 240 SOLIO STATE FET-TVM

The low 1 volt scale allows you to read accurately to as low as 0.05 volts while giving good indications down to 0.01 volt. Direct readings may be made to 1000 volts. Single all-purpose DC/AC-ohms Uni-probe. Extremely high impedance FET amplifier. Peak-to-peak AC measurements. AC line or battery operated.

Specifications: AC RMS Sine Wave and DC voltage ranges: 0-1, 3, 10, 100, 300, 1000 volts and milliamperes. Peak-to-peak AC voltage range: 0-2.8, 8.5, 28, 85, 280, 850, 2800 volts; Input impedance: DC - 11 meg-ohms, AC - 1 megohm; Freq. resp.: 25 Hz to 2 MHz (up to 250 MHz with PRF probe - below right); Ohmmeter: 0.2 ohms to 1000 megohms in 7 ranges. Meter movement: $4\frac{1}{2}$ " 200 uA movement. Power requirements: 105-132 V AC or 3 9-volt batteries and 1 1.5 volt size D cell; 1.4 VA.

Size: $8\frac{1}{2}$ " X $5\frac{3}{4}$ " X 5". Wt. 6 lbs.

No. 35A709. Model 240K. Kit Each.....

No. 35A3082. Model 240 Factory Wired.....



\$59.95

No. 35A3082. Model 240 Factory Wired.....\$79.95

EICO 150 SOLID STATE SIGNAL TRACER

Convenient and rapid servicing of both solid state and vacuum tube equipment. Indispensable in troubleshooting AM, FM and TV receivers as well as Hi Fi and PA audio equipment. Two shielded probes—a high frequency RF point contact crystal demodulator probe and a direct audio probe are provided. Independent RF and Audio inputs. Speaker and calibrated meter output indicators. An output transformer is provided to permit the checking of a suspected defective component by substitution. The speaker mounted on the front panel may be used as a substitute.

Specifications: Output: 400 mw; Input for rated output: RF - 1 mv, audio - 63 mv; Hum: better than 60 db below 400 MV; Meter: 200 microamp movement. Power requirements: 105-132 volts AC, 50/60 Hz, 5 VA.

Size: $7\frac{1}{2}$ " X $8\frac{1}{2}$ " X 5". Wt. 6 lbs.

No. 35A708. Model 150K. Kit.....

No. 35A3081. Model 150 Factory Wired.....

\$49.95

No. 35A3081. Model 150 Factory Wired.....\$79.95

EICO 330 SOLID STATE RF SIGNAL GENERATOR

Indispensable for aligning all types of TV sets, AM and FM radios and communication gear. Excellent source of modulated or unmodulated RF and audio signals. A low distortion 400 Hz audio signal is available at the front panel. Output level adjustable. Set frequencies easily and accurately with vernier control. Calibrated front panel modulation adjustment control. Provision for modulating RF with internal or external signal source.

Specifications: RF fundamental frequencies: 100 KHz to 54 MHz in 5 bands; Output: more than 300,000 microvolts on any band into 50 ohm load; RF coarse attenuation: three steps; RF fine attenuation: 0 to 100%; Internal modulation; approximately 400 Hz from 0 to 100%. Power requirements: 105 to 132 v., 50/60 Hz AC, 1.7 VA.

Size: $7\frac{1}{2}$ " H. X $8\frac{1}{2}$ " W. X 5" D. Wt. 5 lbs.

No. 35A710. Model 330K. Kit. Each.....

No. 35A3083. Model 330 Factory Wired. Each.....

\$62.95

No. 35A3083. Model 330 Factory Wired. Each.....\$94.95

SOLID STATE SINE/SQUARE WAVE GENERATOR

Designed as an oscillator capable of generating the frequencies required in the test of all audio and supersonic equipment. Simultaneous sine and square wave outputs. Covers 20 Hz to 2 MHz in five bands. Low distortion feedback circuit using FET.

Specifications: Frequency range: sine wave—20 Hz to 2 MHz, square wave—20 Hz to 200 KHz; Output voltage: sine wave—0 - 7.5 volts rms into high impedance output, 0 - 6.5 volts into 600 ohms; square wave—0-10 volts peak-to-peak into high impedance, positive direction with zero ground; Calibration Accuracy: 3% except — 5% 20 Hz to 100 Hz and 1 MHz to 2 MHz; Maximum distortion across audio range: 0.25%; Rise time at 20 KHz; less than 0.1 micro-seconds. Power requirements: 105-132 volts, 50/60 Hz AC.

Size: $7\frac{1}{2}$ " X $8\frac{1}{2}$ " X $8\frac{1}{2}$ ". Wt. 9 lbs.

No. 35A707. Model 379K. Kit.....

No. 35A3080. Model 379 Factory Wired.....

\$69.95

No. 35A3080. Model 379 Factory Wired.....\$99.95

EICO MODEL 100A4 MULTIMETER

LABORATORY ACCURACY AND PROFESSIONAL VERSATILITY AT LOWEST COST.

DC sensitivity of 100,000 ohms/volt and AC sensitivity of 12,500 ohms/volt. Combines minimal circuit loading with wide functional utility in a battery-operated, portable volt-ohm-milliammeter, 2% D'Arsonval meter movement; 4-inch mirror-back two-color scale. Matched pair of silicon diodes prevents overload of meter movement. High-impact, custom-molded case; Integral handle for convenient positioning and portability. Highest Quality Import.

OC Voltage: 0-500 mV, 2.5, 10, 50, 250, 500 and 1000. **AC Voltage:** 0-2.5, 10, 50, 250 and 1000. **OC Current:** 0-10 uA, 250 uA, 2.5 mA, 250 mA and 10 amp. **Resistance:** 0-20,000, 200K, 2 meg, 20 meg, DB: -20 to +62 in 5-ranges. Size: $7\frac{1}{2}$ " H. X $5\frac{1}{4}$ " W. X $3\frac{1}{4}$ " D. Complete with batteries and test leads. Factory Wired and Tested.

No. 35A3025. Eico 100A4. Each.....

No. 35A3030. Carrying Case for above. Each.....



\$39.95

No. 35A3030. Carrying Case for above. Each.....\$5.95

EICO 685 TRANSISTOR ANALYZER IN AND OUT OF CIRCUIT DYNAMIC SEMICONDUCTOR AND CIRCUIT AC ANALYZER

In and out of circuit, the 685's multiple tests on bipolar transistors include an AC beta test with accurate readings from 2 to 1,000 on power and small signal devices, and from 2 to 100 on RF transistors. ICBO and ICEO measurements are easily read on the accurate compressed scale. Besides the 0-50,000 micromhos AC transconductance readings, IDSS, IGSS and pinch-off voltage readings on FET's are quickly made. With equal ease and precision, you can check the new enhancement and depletion devices. Easy to read zero diode breakdown voltage and SCR gate turn-on voltage. The ohmmeter-voltmeter scale has been uniquely compressed so that low values of R and V are read over a longer length of scale than are higher values, providing accuracy for all values of R and V. 50uA, 2% Taut Band meter movement. 120 VAC, 50/60 Hz. 10 watts; Size: $12\frac{1}{2}$ " X $8\frac{1}{2}$ " X 6". Weight 10 lbs.

No. 35A713. Model 685K Complete Kit.....

No. 35A3110. Model 685 Factory wired.....



\$99.95

No. 35A3110. Model 685 Factory wired.....\$149.95

EICO 239 SOLID STATE FET-TVM

● ADVANCED SOLIO STATE DESIGN.
● BATTERY-POWERED.

Use the new 239 on your bench or in the field. Checks semiconductor and vacuum tube circuits. 11 Megohm DC Input Impedance. Reads AC rms and DC voltages in seven 10db steps from 1 to 1000 volts on large $4\frac{1}{2}$ " meter. Measures and reads peak-to-peak AC to 2800 volts. Checks resistance from 0.2 ohm to 1000 megohms on seven ranges. Includes exclusive time-saving Uniprobe. Wt. 5 lbs.

No. 35A714. 239K Complete Kit.....

No. 35A3111. 239 Factory wired.....

No. 21B141. 9 volt battery 3 required.....

No. 21A1. "0" cell 1 required.....



\$39.95

No. 35A3111. 239 Factory wired.....\$59.95

No. 21B141. 9 volt battery 3 required.....54c Ea.

No. 21A1. "0" cell 1 required.....20c Ea.

EICO MODEL 232 PEAK-TO-PEAK VTVM

For all TV/FM/AM electronic servicing with highest accuracy. High impedance input results in negligible circuit loading. $4\frac{1}{2}$ " meter can't burn out—built-in protective circuit. Zero center for TV-FM discriminator alignment, one zero adjustment for all functions and ranges, 1 per cent precision ceramic multiplier resistors, uniform 3 to 1 range ratio for extreme wide range accuracy and a transformer for isolation and safety.

Peak-To-Peak AC Ranges: 0-4, 14, 42, 140, 420, 1400, 4200 volts. **RMS Sine Voltage Ranges:** 0-1.5, 5, 15, 50, 150, 500, 1500 volts. **DC Voltage Ranges:** 0-1.5, 5, 15, 50, 150, 500, 1500 volts. **Frequency Response:** 30 Hz to 3 MHz (up to 250 MHz with PRF probe). **Ohmmeter:** 0.2 ohms to 1000 megs in 7 ranges. **Tube Complement:** 12AU7, 6AL5, selenium rectifier. **Battery:** 1.5 v. **Power requirements:** 117 VAC, 5 watts. **Input Impedance:** 11 megohms. Size: $8\frac{1}{2}$ " x 5" x 5". Wt. 5 lbs.

No. 35A281. Model 232K. Build It Yourself Kit.....

No. 35A282. Model 232. Factory Wired and Tested.....

No. 35A281. Model 232K. Build It Yourself Kit.....

No. 35A282. Model 232. Factory Wired and Tested.....



\$34.95

No. 35A282. Model 232. Factory Wired and Tested.....\$49.95

ACCESSORY PROBES FOR EICO

Amphenol 75-MCIF Connector. Probes supplied less connector. No. 12A311. Each.....

70c

PRF11K RF Probe for 11 meg. input. No. 35B111. Kit. Accurate to 250 MHz. Kit Each.....

\$4.95

UP Uni-Probe. Selector type replacement probe for AC or DC function. Same as used on all Eico 232, 249, etc. VTVM testers. No. 35C49. Kit. Each.....

\$5.95

HVP-2 High Voltage Probe with 1090 meg. resistor. Use with all 11 meg. input testers. Extends range to 30,000 volts. Wt. 1 lb. No. 35A329. Factory Wired, ready to use. Each.....

\$9.95

EICO MODEL 565 MULTIMETER

Specifications: DC Voltage: Ranges 0-2.5, 10, 50, 250, 1000, 5000 volts. Sensitivity 20,000 ohms/volt. AC/Output Voltage: Ranges 0-2.5, 10, 50, 250, 1000, 5000 volts. Sensitivity 1000 ohms/volt. **OC Current:** 0-100 uA, 10 mA, 100 mA, 500 mA, 10 amp. **Ocibels:** -12 to +55 db in 5 ranges. **Resistance:** Ranges: 0-2000 ohms, 0.2 megohms, 20 megohms (2 ohms to 20 megohms). **Meter:** $4\frac{1}{2}$ " size. 50 uA movement. Size: $6\frac{3}{4}$ " x $5\frac{1}{4}$ " x 3". Wt. 4 lbs.

No. 35A203. Model 565K. Complete Kit.....

No. 35A204. Model 565. Factory Wired.....

No. 37A3023. Test Leads for 565. Pair.....

\$25.95

No. 35A204. Model 565. Factory Wired.....\$39.95

No. 37A3023. Test Leads for 565. Pair.....\$1.05



SENCORE SM152 SWEEP AND MARKER GENERATOR

All solid state. The SM152 can completely sweep align the UHF tuner, the complete VHF tuner, the IF, and the chroma band-pass. Each stage can be aligned individually or the entire signal system can be aligned for a correct overall response. Sound, video, color, and all trap markers "pop" singly or simultaneously on the response waveform. Only 3 hook-up cables are required; one for RF signal in, one for detected signal out, and one for the scope.

Unit is complete with all leads, matching pad and detector probes. 13 3/8" X 9 1/2" X 5 3/4". Wt. 15 lbs.
No. 35A3035. Each **\$450.00**



SS137 COMPLETE SWEEP CIRCUIT ANALYZER

Everything you need to isolate ANY sweep circuit trouble in seconds. Universal horizontal and vertical oscillator signals for direct circuit injection. Dynamic in-circuit flyback checker. Direct horizontal yoke substitution for B/W and color. Vertical yoke and vertical output transformer test drive signals. Horizontal stabilization and sync test provisions. External checks with built-in VTVM: DC volts from 0 to 1000, AC volts peak-to-peak from 0 to 2800, and 2nd anode voltage measurements of 10KV and 30KV. Current scale of 300 MA. Special 3 MA range for color TV. Steel case with shock mounted high quality plate glass mirror in detachable hinged cover. 10" X 9" X 3 1/2". Wt. 10 lbs.

No. 35A3032. SS137. Each **\$99.50**



FS134 UHF-VHF-FM SOLID STATE FIELD STRENGTH METER

Built-in attenuators of 0, 20, and 40 db (X1, X10, and X100) enable you to measure signal strength from the amplifier to the last tap-off in the system. Portable, requires no AC cord. Highly sensitive: 30 Microvolts \pm 3 db on VHF-FM and 30 Microvolts \pm 6 db UHF. Wt. 9 lbs. 10" x 9" x 5".

No. 35A3013. FS134. Each **\$229.50**
No. 21A2 "C" Battery (9 required) Each **20c**



PS163



PS148

SENCORE PS163 DUAL TRACE TRIGGERED SWEEP OSCILLOSCOPE

Extremely stable triggered sweep with full band width capability in both automatic and triggered modes PLUS free running capability for use as a sync sweep service scope. Complete dual trace capability with selection. Input sensitivity of 5 mv/cm direct probe, 50 mv/cm with low cap probe. Bandwidth of DC to 8 MHz \pm 3 db, useable to 20 MHz. Calibrated time base speeds from .1 microsecond to .1 second in 19 positions PLUS TVV, TVH, 60 Hz and ext. positions. Front panel correlation between sweep speed and frequency for ease of operation. Push-button selection of trigger sources. High input impedance of 10 megohms shunted by 11 pf using low cap probe. Fully protected field effect transistor input. Full size illuminated 10 x 10 cm grid plus illuminated vector grid at the flip of a switch. All solid state for dependable accuracy and reliability. Built-in 1 KHz calibration signal. Front tilt stand. Vertical A and B—BNC input connectors. All others binding posts. 105 to 125 VAC, 50-60 Hz, 60 watts. Size: 12" x 10" x 15 1/2". Shpg. wt. 30 lbs. Complete with two low cap probes.

No. 35A3107. PS163. Each **\$595.00**

PS148 DELUXE WIDE BAND SCOPE AND VECTORSCOPE

View vector patterns as recommended by Zenith or "S" pattern as recommended by RCA. Switch on rear converts from a wide band scope to a 5-inch vector scope. Vectorscope connections and controls are located on rear. Vectorgraph screen shows degree of chroma demodulation. Vertical amplifier response 10Hz to 5.2 MHz. \pm 1db. Vertical sensitivity: .017 V rms/inch. Horizontal sweep 5Hz to 500 KHz in five ranges. Stability is due to precise control over sync signals. Minimum circuit loading with input Z of 27 megs. Low C probe to view wave forms in TV horizontal and vertical circuits. Horizontal freq. response (3 db, 10 Hz to 650 KHz) guarantees linear sweep and positive sync. Inputs for horizontal sweep and external sync on front. Provisions for intensity modulation on rear. Horizontal retrace is built-in on all horizontal sweep ranges. All steel case with brushed chrome front panel. 11" x 9" x 15 1/2". Wt. 22 lbs. 100 watts. 60 Hz. AC. 47 watts on standby.

No. 35A3018. PS148. Net Each **\$269.50**

No. 35A8009. 39G3. Demodulation Probe. Each **\$5.75**

SG 165 AM-FM STEREO ANALYZER

A complete AM-FM and stereo test instrument. Covers full AM and FM RF bands on one dial. Provides every IF frequency and every form of modulation needed for AM-FM IF trouble shooting. IF sweep and marker generator permit exact alignment with 10.7 MHz crystal oscillator (provided) and Post injection 100 KHz markers show on scope screen for bandwidth checking. Generates 400 Hz sine and square waves with or without modulation plus MPX produced in new IHF form. Has speaker leads or 4-8-16-32 ohm loads. Separation on D-Arsonval meters calibrated to 40 db. Size 10W x 13 1/2" H x 9 1/2" D. 105-125 VAC. Shpg. wt. 19 lbs.

No. 35A3131. Each **\$400.00**



TF166 AUTOMATIC TRANSISTOR ANALYZER

- TRANSISTOR TESTER
- FET TESTER
- CURVE TRACER

Speedy solid state trouble shooter and transistor analyzer in one unit. Simple push button operation sets up tester. All tests can be made right in circuit without disconnecting a single component. AC signals are used to protect the components and tester. Polarity N and P buttons can be pushed at will without damage. No reference book needed for general troubleshooting, however reference data on over 14,000 transistors and FETs is in reference book included. 100% accuracy on DC out of circuit test. Size (approx.) 9" H. x 8" W. x 6" D. 105-125 VAC. Shpg. wt. 11 lbs.

No. 35A3132. Each **\$190.00**



SENCORE

TUBE TESTERS



1



2

1 MU150 THE CONTINENTAL TUBE CHECKER

A "must" for modern servicing . . . production line testing . . . quality control . . . and laboratory. The Continental checks tubes accurately and from every possible angle. Tubes that don't perform are found fast. Full rated cathode current drawn from every tube. 100 Megohm grid leakage test to find the tough grid contamination defects that other testers miss. Stethoscopic shorts test that checks each element against all others for shorts. True C_m using 5000 Hertz square wave. Life test to find intermittents and temperature sensitive failures. Plastic coated tube chart. New setups can be made from tube manual. Laboratory accuracy; meter readings for C_m are in actual micromhos. Checks over 3000 foreign and domestic tubes. Vinyl clad steel attache case with all-chrome front panel. 17x11x4". Wt. 18 lbs.

No. 35A3038. MU150. Each **\$269.50**

2 TC162 SOLID STATE TUBE TESTER

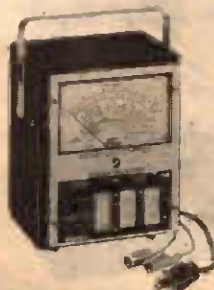
Solid state circuitry with FET bridge circuit for greater reliability, stability and instant-on action. Solid State—no more waiting for your tube tester to warm up, the TC-154 is instant-on. Reliability—Accurately checks each tube at full rated cathode current for emission. Extra Sensitivity—Measures grid leakage with 100 megohm sensitivity. Push-Button Operation—With the push of a button, you can check for emission, shorts and grid leakage. Checks latest tubes. Vinyl clad steel case with chrome panel. Removable lid. 10" x 9" x 3 1/2". Wt. 9 lbs.

No. 35A3103. TC162. Each **\$110.00**

PM157 POWER MONITOR

It's a zero to 1150 watt wattmeter to determine if the appliance you are repairing is dissipating too much power. It's an AC line voltage monitor to determine if line voltage is excessive or too low. It's an AC ammeter to determine how much AC line current is being drawn. It's a DC ammeter to check horizontal output fuses, horizontal output tube current, or any other check between zero and 10 amperes. It's a combination AC and DC ammeter to check power dissipation in fuse resistors. Protected by a 10 ampere circuit breaker. Compartment in rear houses test leads and line cord. 4 1/2" meter. Tilt handle. Wt. 5 lbs.

No. 35A3074. PM157. Each **\$69.50**





**"LITTLE HENRY"
FIELD EFFECT
MULTIMETER**

Handy size instrument has tough, grained case with slide door to protect meter. Lead compartment has snap action door to keep leads in place. Easy one-hand operation with all push-button controls. Ranges: 0-3, 30, 300, 1K and 6K DC Volts full scale plus 0-3, 30, 300, and 1K AC Volts. Ohms ranges 0-1K, 10K, 1 Meg and 1000 Meg. DC current 0-1 Amp full scale with separate current jack. 3 1/2" meter input isolated and diode protected. 1/2% precision-type multiplier resistors. Uses one 9 V. and 2 1.5V batteries. Size 6 1/2" H. x 4 1/4" W. x 2 1/4" D. Shpg. wt. 3 lbs.
 No. 35A3127, Model FE23. Each **\$75.00**
 No. 21A198, 9 V. Battery (requires one) Each 64"
 No. 21A313, AA Battery (requires two) Each 19"

**SENCORE
MODEL FE160
SENIOR HI LO
MULTIMETER
112 RANGES**

**A NEW STANDARD OF THE
INDUSTRY FAR SUPERIOR
TO ANY VTVM OR VOM**

Just push 2 buttons for any test—top row selects function, bottom row selects range. Action is instant and automatic.

\$190.00



Faster, more accurate, more complete circuit testing with simplified push-button operation. Large 7 inch mirror scale meter for easy to read accuracy. FET circuitry minimizes circuit loading: 15 megohm input resistance on DC voltage ranges, 12 megohms on AC volts. Accuracy 1.5% on DC and 2.5% on AC ranges. Fully protected to 1000 times overload prevents damage from improper use. Fully AC operated.
 112 ranges. DC volts: 10 positive ranges .1 to 3000 volts, 10 negative ranges .1 to 3000 volts, 10 zero center ranges .05 to 1500 volts. AC volts: 9 RMS ranges .1 to 1000 volts, 9-peak-to-peak ranges .28 to 2800 V. DC current: 10 positive ranges 30 microamps to 3 amps, 10 negative ranges 30 microamps to 3 amps, 10 zero center ranges 15 microamps to 1.5 amps. AC current: 10 RMS ranges 30 microamps to 3 amps. Ohmmeter: 8 high power ranges (1.5V) 600 ohms to 6000 Meg, 7 low power ranges (.08V) 600 ohms to 600 Meg, Db: 9 ranges -20 db to +60 db. Features 500 microamp 2% meter, 1/2% multiplier resistors, fully electronic ohmmeter power. For 100-130 VAC, 50-60 Hz. Size 9" x 7 1/2" x 6", weight 6 lbs. No. 35A3100. **\$190.00**
 FE 160. Each
 HIGH VOLTAGE PROBE extends ranges to 5KV, 15KV and 50KV, increases DC input impedance to 1500 megohms. No. 35A8062. High Voltage Probe, Each. **\$12.00**

**COLOR BAR
GENERATORS**



CG-159



CG 22

MODEL CG-159. Solid state circuitry. Temperature controlled circuits—absolute pattern stability in any weather with Sencore's exclusive "Temp-Control". Has all five standard patterns plus two movable patterns. A single dot and a single cross can be moved to any spot on the screen, simplifying both static and dynamic convergence. Interface control to stop dot bounce found on some sets. Snap tune channels 2 through 6. Eliminates troublesome tuning between channels. Works like tuning on your TV. Crystal controlled circuits—color bars, 4.5 megahertz modulated sound carrier and timers all crystal controlled for added stability and solid patterns. Vinyl covered steel case with plate glass mirror in lid. Operates on 115 V. AC 60 Hz. 10 x 9 x 3 1/2". Wt. 9 lbs.
 No. 35A3102. Each **\$169.50**

MODEL CG22. Compactness—its palm size makes the CG22 an ideal service companion on every color TV call. Pushbutton selection of 10 color bars, vertical lines, horizontal lines, crosshatch and dots. Perma-Lock circuits lock patterns on TV screen. Built in pre-heater for fast warmup in cold weather. Battery operated with automatic shut off after 15 minutes operation prevents accidental battery discharge. Size 4 1/8" X 6" X 2".
 No. 35A3101. **\$89.00**
 Wt. 2 lbs. Each
 No. 21A5035, TR164 Battery for above (requires 2). Each **\$2.13**

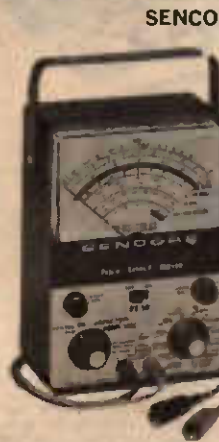
**NOW — COMPARE CRT COLOR
GUNS . . . AUTOMATICALLY**



**CR161 AUTO TRACKER
CRT TESTER**

Test CRT color guns for color tracking automatically. No more time-consuming logging of each color gun reading at every setting of the G2 control like other testers. Color tracking scale right on the meter. Important when claiming credit for a defective color CRT.
 Has short test, emission test and life test. Easy to use. Rejuvenation and shorts removal is accomplished with the exclusive Automatic Controlled Rejuvenation circuit. Equipped with plug-in sockets for fast testing and easy updating. Controls calibrated in actual DC volts. Chrome panel and steel vinyl case with lead compartment. 10 x 9 x 3 1/2" 110 VAC.
 No. 35A3104. CR161. **\$140.00**
 Wt. 10 lbs. Each

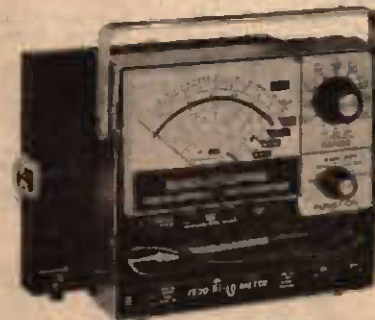
BE156 7-IN-1 DC BIAS SUPPLY
 Align any TV set, black and white, tube or solid state. Provides the bias that you need for any set in any stage, negative or positive. Three separate and independent 25 volt supplies offer a carefully calibrated output and a positive and negative polarity switch; the last supply on the right has an additional position on the switch that increases the output to a negative 75 volts. 7 X 4 X 2". Wt. 2 lbs. 110 VAC.
 No. 35A3068 **\$24.95**
 Each



SENCORE FIELD EFFECT MULTIMETER

Has all the advantages of a VTVM with instant warm-up and stability. 15 megohm DC input, 10 megohm AC input. Loads circuit less than a VTVM, superior for checking low voltage ranges. Less than 2 MA battery drain with built-in battery check protection. DC Voltage Ranges: 0 to 1, 3, 10, 30, 100, 300 and 1000 full scale. ± .5, 1.5, 5, 15, 50, 150 and 500 zero center scales. AC Voltage Ranges (Rms): 0 to 1, 3, 10, 30, 100, 300 and 1000 full scale. (Peak to Peak) 0-2.8, 8.4, 28, 84, 280, 840 and 2800 full scale, frequency compensated. Frequency response: 10 Hz to 10. MHz. Ranges: 0 to 1000, 10K, 100K ohms, 100 megohms. DC current Ranges: 0 to 100 microamps, 1, MA, 10 MA, 100 MA, and 1 ampere. Accuracy: DC 1.5%, AC 3%. 5" W. x 7-3/16" H. x 3-1/16" D. Wt. 4 lbs.
 Uses 1 "C" cell and 1 9 V. battery.
 No. 35A3049, FE16. Each **\$90.00**
 No. 35A8008, 39A19 High Voltage Probe. Extends 300 V. range to 30 KV. Each **\$9.95**
 No. 21A2, 1.5 Volt "C" Cell, (uses 1). Ea. **20"**
 No. 21A198, 9 V. Battery (uses 1). Each **64"**

FE20 HI-LO FIELD EFFECT MULTIMETER



A must for accurate resistance measurements in solid state circuits. Expands resistance measurability with low power (.08 volts) for in-circuit accuracy, also has high power ohms. AC and DC volts sensitive to 1/10 volt full scale. Complete battery test for all batteries in the instrument. Burnout proof with resistors protected by fuse. Cover shuts off the FE20 to prevent battery run-down if switch is left on. Tilt handle. Ranges: 9 each 0.1 to 1000 VDC; .05 to 500 VDC zero center; 1 to 1000 VAC RMS; .28 to 2800 VAC Peak to peak; 100 uA to 1A DC- plus-3,10 and

30KV using Hi voltage probe provided; 7 Hi power ohms ranges from 1000 to 1000 meg, and 6 Lo power ohms from 1000 to 100 meg. Accuracy of 1.5% on DC, 3% on AC, 6 inch meter. 9" W. x 7" H. x 4" D. Wt. less batteries 5 lbs.
 No. 35A3105, FE 20. Each **\$140.00**
 No. 21A2, 1.5V. "C" Cell Battery, (requires 7) Each **20"**

FE21 FIELD EFFECT MULTIMETER
 Similar in appearance to FE16 illustrated above. Features same as FE20. Size 5" W. x 7" H. x 3" D. Wt. 4 lbs.
 No. 35A3073, Each **\$110.00**
 No. 21A2, C Battery (uses 1) Ea. **20"**
 No. 21A198, 9 V. Battery (uses 2) Ea. **64"**

SENCORE AND EMC TEST INSTRUMENTS



**B-A's MOST POPULAR
TRANSISTOR AND
FET TESTER
SENCORE TF 151**

SAVE \$50.00

TESTS ALL TRANSISTORS AND
FET'S IN OR OUT OF CIRCUIT

AVAILABLE EXCLUSIVELY AT B-A-I

REG. PRICE \$79.50
NOW \$129.50

LIMITED QUANTITY AVAILABLE!

The TF151 checks them all! Just flip the large control knob to the right side of the unit and tester is ready to test FET's. Checks transistors in or out of circuit for AC Beta and out of circuit for ICBO leakage. Increased current check for HI-power transistors makes test more accurate. Special test for critical RF transistors like GE9's that often slipped through before. True Gm mutual conductance test made on all field effect transistors; in or out of circuit. Truly revolutionary. ICSS leakage checked out of circuit on FET's. Special Gate 2 check provided for FET's with two gates. Special IDSS (Zero bias) current checks provided for matching FET's or for industrial "culling." Special reference book clearly shows all information necessary for testing a transistor or FET, if it is a transistor or FET, and results to expect. Vinyl covered steel case, 9 1/2 x 7 1/2 x 6". 6" meter.

No. 35A3036. Sencore TF151. Shpg. wt. 9 lbs. Each..... **\$79.50**

RC146 HANDY "75" SUBSTITUTOR

Provides 75 frequently used values of carbon resistors, capacitors, electrolytics, power resistors, and universal selenium and silicon rectifiers. Twelve 1-watt resistors from 10 to 5.6K ohms. Twelve 1/2-watt resistors from 10K to 5.6 megohms. Ten 600-volt capacitors from 100 mfd. to 0.5 mfd. Ten electrolytics that can be used singly or as duals to form up to 25 different values. 2 mfd. to 250 mfd. at 450 volts. Power resistors of 20 watts from 2.5 to 15,000 ohms, and a universal 0.5 amp silicon and selenium rectifier. 10 1/4 x 4 3/4 x 4 3/4". Wt. 3 1/2 lbs.


No. 35A3076. Each..... **\$69.95**



RC144 HANDY "36" SUBSTITUTOR

36 different, most often needed resistors and capacitors for experimenting, substituting and testing — 24 1/2 and 1 watt resistors from 10 ohms to 5.6 megohms, 10 capacitors from 100 mfd. to .5 mfd., at 600 volts. 2 electrolytics at 10 mfd. and 40 mfd. at 450 volts DC. 4 x 3 x 2". Wt. 2 lbs.

No. 35A3015. Each..... **\$19.95**




EICO MODEL S40 READI-TESTER

Designed expressly for "do-it-yourself" home appliance & auto repair—easily finds defects in irons, fans, heaters, TV & radio tubes, batteries, ignition coils, etc. It is an all-in-one Multi-Range AC/DC voltmeter, ammeter, ohmmeter, wattmeter, leakage checker.

Provides "Good-Bad" readings on 6 V and 12 V automobile storage batteries, and permits checking of individual cells.

Specifications: Voltage Ranges: 0-7.5, 15, 150, 300 volts (AC/DC). Current Range: 0-15 amps. Resistance Ranges 0-1000 ohms (direct reading). Leakage Test: Neon lamp circuit. Wt. 3 lbs. 6 1/2" x 3 3/8" x 3 1/2". Includes leads.

No. 35A386. Model 540K..... **\$19.95**
Complete Kit..... **\$29.95**
No. 35A387. Model 540. **\$29.95**
Factory Wired. Net..... **\$29.95**




EMC 116 SOLID STATE VOLT-OHMMETER

Portable, battery operated, no warm up. With the features of a VTVM. Instant, accurate readings with up to 500 times the sensitivity of a 20,000 ohm per volt VOM. 4 1/2" 200 microamp meter. Zero center position. Meter and transistors protected against burnout, FET transistor, 4 silicon transistors and 2 diodes.

DC Voltage: 0 to 1.2, 12, 120, 1200 volts. Input resistance 11 megohms. AC voltage: 0 to 1.2, 12, 120, 1200 volts. Input resistance 1 megohm. Peak-to-peak AC Voltages: 0 to 3.3, 33, 330, 1200 volts. Resistance: 0-1K, 0-100K, 0-10 meg, 0-1000 meg. 4 DB ranges: -24 to +56 DB. With batteries and leads. Bakelite case with handle. Shpg. wt. 3 lbs.

No. 35A704. Model 116..... **\$30.90**
Easy To Build Kit..... **\$30.90**
No. 35A3056. Model 116 Factory Wired. **\$42.90**
Each..... **\$42.90**



**EMC
DELUXE TUBE
TESTER KIT**

COMPLETELY MODERN!
COMPLETELY FLEXIBLE!
EMC MODEL 213

FOR:
• Hobbyists
• Experimenters
• Students
• Servicemen

\$26.90 KIT

FACTORY WIRED \$40.25



Up to date in every way. Checks all the new 12 prong (Compactron), Nu-vistor, Novar and 10 prong tubes in addition to octal, loctal, miniature and 9 prong tubes. Tests each tube for shorts, as well as for quality. Tube quality is indicated directly on a three color meter dial. Each section of a multi-purpose tube is checked separately.

Magic eye, voltage regulator and HI-FI tubes are also tested. Unique switching arrangement makes the checker obsolescent proof. Panel is etched for long wear. Complete with instructions and tube charts in ring bound manual.

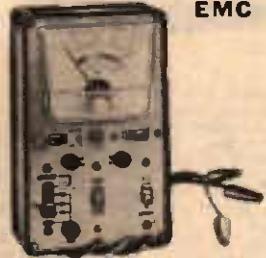
Complete kit in gray leatherette covered wood carrying case. For 117VAC. Shpg. wt. 5 lbs.

No. 35B417. Model 213P Kit..... **\$26.90**
Net Each..... **\$26.90**
No. 35B418. Model 213P Factory Wired. Net Each..... **40.25**
Kit as above but with high impact bakelite case instead of wood case. No. 35B419. Net Each..... **\$23.90**

EMC 212 TRANSISTOR ANALYZER

Tests all transistors in or out of circuit. Measures DC current gain (Beta) in 3 ranges to 200. Checks leakage on 3-color scale; good, weak, poor. Tests all transistors as AC current amplifiers (oscillator check) without removing them from circuit. Can be used as a signal tracer. Measures battery voltage 0-12 volts, and current 0-80 MA, also tests diodes. Comes with instruction manual. Size 3 3/4 x 6 1/4 x 2". Wt. 1 1/2 lbs.

No. 35B521. Model 212..... **\$15.50**
Complete Kit..... **\$15.50**
No. 35B522. Model 212 Wired, Ready to Use..... **\$23.50**



EMC MODEL 801 COMPARATOR BRIDGE AND IN-CIRCUIT CAPACITY CHECKER

Measures capacity in four ranges 10 pfd. to 5000 pf. Resistance in four ranges .5 ohm to 500 megs. Measures leakage at any voltage to 500 volts and power factor from 0 to 60%. Checks open or shorted condensers above 50 pf in circuit if not shunted by excessively low resistance. Size 10 x 7 x 5". Wt. 7 lbs.

No. 35A159. Model 801..... **\$30.45**
Complete Kit. Net Each..... **\$30.45**
No. 35A158. Model 801..... **\$49.95**
Factory Wired. Net Each..... **\$49.95**



EMC MODEL 502 RF SIGNAL GENERATOR

Covers frequency range for all tuning and aligning requirements of AM and FM radios, in 6 bands from 115 KHz to 110 MHz, second harmonic to 216 MHz. RF accuracy 1 1/2%. Includes 400 Hz internal modulation controlled with off-on switch and provision for external modulation. Uses individual slug tuned coils for each band. Colpitts oscillator and a cathode follower output. Planetary drive permits fine frequency adjustment. Size 6 3/8 x 6 3/8 x 4". Complete with output lead and instructions. For 105-130 VAC. Wt. 4 lbs.


No. 35B424. Model 502..... **\$23.47**
Complete Kit..... **\$23.47**
No. 35B425. Model 502..... **\$34.90**
Factory Wired..... **\$34.90**



EMC MODEL 102A BURN-OUT PROOF MULTIMETERS

Has a built-in diode to prevent burn-outs caused by accidental overloads. No more expensive repairs and loss of time when accidentally misused. Has 3 1/2 inch 2% 800 microamp D'Arsonval type plastic front meter. 5 AC voltage ranges: 0 to 12, 120, 600, 1200, 3000 volts. 5 DC voltage ranges: 0 to 6, 60, 300, 600, 3000 volts. 3 AC current ranges: 0 to 30, 150, 600 MA. DC current ranges: 0 to 6, 30, 130 MA, and 0 to 1.2 amps. Resistance ranges: 0 to 1000 ohms, 0 to 1 megohms. Size 3 3/4 x 6 1/4 x 2". Shpg. wt. 2 lbs.

No. 35B40. Model 102A. Complete Kit..... **\$15.95**
No. 35B43. Model 102A. Factory Wired..... **\$18.95**
No. 37A3023. Test Leads for 102A. Pair..... **\$1.05**



NEW MODEL 281 DIGITAL MULTIMETER



Easy to read, accurate, stable. Digital readout display for error-free readings. Gives measurements instantly and accurately. Low test current on resistance ranges eliminates danger of harming components on low-resistance ranges. Has 100% overrange capability and a fool-proof system of overrange and voltage polarity indication. Polarity reversing function switch. Decimal point is automatically positioned on clear non-blinking display. Overload protected by diode and series limiting resistance on AC/DC volts; fused ohms ranges. Ranges: DC volts 0-0.1, 1, 10, 100, 1000; AC Vrms 0-0.1, 1, 10, 100, 1000; DC Current 0-100uA, 1, 10, 100, 1000 mA; AC Current 0-100 uA, 1, 100, 1000 mA; Ohms 0-10, 100, 1K, 10K, 100K, 1M, 10M. 10 Megohm input impedance. 105-125 VAC, 50-60Hz, 3 wire cord. Complete with 5-position stand/handle, leads and low-drift-loading probe. Size 3 1/2" H x 7" W x 9" D. Shpg. wt. 5 lbs.

No. 35A3138. Each **\$169.95**

B & K 415 SOLID STATE SWEEP/MARKER ALIGNMENT GENERATOR



Markers are clearly indicated by lights on the panel and by tilting markers on the serviceman's scope. The unit is so complete—all that is needed to complete the alignment job is a scope and an alignment tool. Even the instruction book is different—showing a simplified, new easy method to align all TV receivers.

Specifications: Completely solid state (with field effect transistors). 3 Bias supplies (low impedance), 2 ADJ to ± 25 VDC, and 1 ADJ to ± 50 VDC. Xtal controlled RF output on Channel 4 and 10. Xtal controlled IF markers. Sweep width up to 12 MHz. As many Xtal markers may be used together as needed. Post Injection marker (Xtal controlled). All cables supplied. 115 VAC 50/60 Hz. (with 3 wire cord). No. 35A3050. Shpg. Wt. 20 lbs. Each..... **\$399.95**

B & K MODEL 1077B TELEVISION ANALYST

Service BGW and color, VHF and UHF, tube type and transistorized TV receivers. Supplies test signal for each separate stage, you watch results on T.V. set itself. No oscilloscope needed. By test pattern signal injection you can signal trace each stage from the antenna input to the last video amplifier grid. Also provides audio tone generator, sync and sweep circuit pulses, yoke and flyback tests. Supplied with standard test pattern, white dot and white line crosshatch and color bar pattern slide transparencies. Operates on 105-125 VAC. Size 17"x10 1/4"x10". Wt. 29 lbs.



No. 35A302. Model 1077B. Each **\$399.95**

B & K MODEL 465 CRT REJUVENATOR & CHECKER TESTS AND REPAIRS COLOR AND BLACK & WHITE PICTURE TUBES WITHOUT REMOVING TUBE FROM THE TV SET

Recognized standard of the industry! Checks for leakage, shorts, open circuits and emission. Removes inter-element shorts and leakage with adjustable voltage and controlled time. Continuously variable element voltages provide obsolescence protection. Repairs open circuits. Restores emission and brightness. Life test checks condition of cathode emissive coating and predicts remaining useful life of picture tube.

Neon bulb indicators and a large 4 1/2" meter provide quick, easy reading. Operates on 117 V. 60 Hz. Vinyl covered carrying case. Size: 10 1/2" H. x 11 1/2" W. x 4 1/2" D. Shpg. wt. 8 lbs. No. 35A229. Model 465. Net Each..... **\$99.95**



MODEL 466 CRT TESTER AND REJUVENATOR

Has all of the features of the famous 465 above plus: Separate G-2 control for each color gun. Sufficient G-2 voltage range to check color CRT guns to cut-off with recommended G-1 voltage setting. Accelerates tracking tests. "Super-Rejuvenate" feature permits rejuvenation of many otherwise worthless tubes. Checks warm-up performance; makes relative useful life test. With 3 multi-socket adapters provided, tests new CRT's such as Trinitrons, and the GE 11SP22 and 11WP22. Continuously variable and metered heater, G-1 and G-2 voltages effectively protect the 466 from being obsolete by new CRT's with new heater voltages; permits checking CRT's under actual operating conditions for reliable test results. "Reserve Power" rejuvenation restores low-emission CRT's; repairs shorted or leaky tubes. Size, 13 1/4" x 9 1/2" x 5 1/4" deep. Complete with 3 multi-socket adapters. Operates from 105-125 volts AC, 60 Hz. Shpg. wt. 8 lbs. No. 35A3114. Model 466 CRT Tester/Rejuvenator. Each **\$129.95**



NEW MODEL T470 PRECISION

DUAL-TRACE TRIGGERED SWEEP OSCILLOSCOPE



\$499⁹⁵

An extremely versatile scope with 10 MHz bandwidth 10mV sensitivity and automatic triggered sweep. Replaces all single trace scopes. Use where inputs and outputs are compared or outputs of stages triggered by the same pulse are compared. Permits dual display of waveforms, compares the waveforms for shape and time duration. Quickly checks inputs and outputs of video amplifiers, etc., also checks the burst into and out of gate amplifiers. Has 6 operating modes: Channel 1, Channel 2, Chopped, Alternate, Add and Channel 2 invert. Chop mode for low frequency eliminates flickers. Add mode: Ch. 1 plus 2. Both Add and Ch. 2 invert modes give Ch. 1 minus Ch. 2 10 mV/cm sensitivity. Max. sweep speed 0.2u SEC/cm. Calibrated voltage and time base scales. 5" screen with illuminated scale. TV syncseparator for TV-H and TV-V. 105-125 VAC, 50-60 Hz; 3 wire cord. Size 9H x 10W x 17"D. Shpg. wt. 28 lbs. Complete with tilt stand and vector overlay. Supplied less probes (listed below).

No. 35A3137. Each **\$499.95**

Model 1460 Single Trace Triggered Sweep Scope. Sync separator for jitter-free waveform. High sensitivity 10 mV/cm. DC amplifier. DC to 10 MHz bandwidth. 1, 2&5 steps on the calibrated vertical attenuator. 105-125 VAC 50-60 Hz; 3 wire cord. Size 9 x 10 x 17". Shpg. wt. 27 lbs.

No. 35A3119. (less Probe) Each **\$399.95**

PROBES FOR 1470 AND 1460 SCOPES

No. 35A8072. Model PR-20. Combination 10:1 or direct probe with spring loaded clip-on tip. Low capacity 10-1-10 megohms, 18 pf. Direct: 1 megohm, 120 pf. Shpg. wt. 1 1/2 lbs. Each **\$19.95**

No. 35A8073. Model PR-16. Same as above less clip-on tip. Each .. **\$14.95**

B & K TUBE TESTERS

HIGH SPEED
MULTIPLE SOCKET
TUBE TESTERS
FOR FAST
RELIABLE
TESTING



1 MODEL 747 100% DYNAMIC Gm TUBE TESTER

Dynamic mutual conductance tube tester. Set only two controls; push button to read Gm. Switch section provides obsolescence protection. Tests all TV and radio tubes, nuvistors, new 10-pin tubes, 12-pin compactrons, European Hi-Fi tubes, voltage regulators and many industrial tube types. It's fast, with professional accuracy. Tests each section for shorts, grid emission and gas. Makes life test. Six pin straighteners provided. Black molded attache type case. 105-125 volts 60 Hz AC. Size 5-5/16H x 2 1/2 W x 11 1/2"D. Shpg. wt. 12 lbs. No. 35A3139. Net Each **\$249.95**

2 MODEL 606 TUBE TESTER

Compact, portable, low cost tester. Fast—only 4 settings required. Tests the newest miniature and color T.V. tube types as well as the older types. Tests Nuvistors, 10 and 12 pin Compactrons, Novars, voltage regulators, European hi-fi and many industrial types. Checks for all shorts, grid emission, leakage and gas. Highly dependable results obtained by testing tubes under actual operating conditions. For 105-125 volts 50-60 Hz. AC. Tube reference charts clip in cover. Leatherette case 8 1/2 x 11 x 4 1/2". Wt. 8 lbs. No. 35A3120 Net Each..... **\$89.95**

DYNA-FLEX ADJUSTABLE 3-POINT PROBE

Easy one hand way to check transistors, diodes, and other components in printed circuit boards. Spring loaded needle-point tips tilt or swivel to any spacing from 1/8" to 3/4". Use with in-circuit transistor testers, VTVM's, VOM's, and TVOM's. Three color coded leads with alligator clips. B & K FP-3 Dyna-Flex Probe No. 35A8022. Each **\$9.95**



RCA TEST EQUIPMENT



MODEL
WV500B



MODEL
WT501A

RCA SOLID STATE VOLTOHMYST

Model WV500B. Seven overlapping resistance ranges measure from 0.2 ohms to 1,000 megohms. Eight overlapping DC current ranges measure from 0.1 milliamperes to 1.5 amperes. Eight overlapping DC voltage ranges measure from 0.2 volt to 1500 volts (including special 0.5 DC volt range), peak-to-peak voltages of complex waveforms from 0.5 volts to 4200 volts, and AC (RMS) voltages from 0.1 to 1500 volts. Input impedance of all DC ranges is 11 megohms. Voltage and resistance measurements are made with a sturdy, wired-in probe with fully shielded input cable. Size: 6 7/8" x 5 1/4" x 3 1/8". Wt. 3 1/2 lbs. Uses 1 "C" battery and 3 9-volt batteries, supplied with leads.

No. 35A3006, Model WV500B, Each \$97.00
Model WG411A, Hi-Voltage Probe with WG206 Multiplier Resistor.
No. 35A3007, Each \$19.25

RCA IN-CIRCUIT/OUT-OF-CIRCUIT TRANSISTOR TESTER

Model WT501A. Tests out-of-circuit transistors for DC beta from 1 to 1000, collector-to-base leakage as low as 2 microamperes, and collector-to-emitter leakage from 20 microamperes to 1 ampere. Collector current is adjustable from 20 microamperes to 1 ampere in four ranges, permitting most transistors to be tested at rated current level. A complete DC forward current transfer ratio curve can be plotted. 100 micro-ampere meter, mirrored scale. Uses 2 "D" batteries supplied. Size: 6 7/8" x 5 1/4" x 3 1/8". Wt. 2 3/4 lbs.

No. 35A3008, Model WT501A, Each \$68.00

RCA WV510A SOLID STATE MASTER VOLTOHMYST

Solid state designed for stable, drift-free operation. Battery or AC operation. Measures DC voltage from 0.01 to 1500 volts, direct current from 0.01 milliamperes to 1.5 amperes, AC voltage from 0.2 to 1500 volts, AC peak-to-peak voltage of complex waveforms from 0.5 to 4200 volts, and resistance values from 0.2 ohms to 1000 megohms. Seven overlapping ranges are provided for AC, resistance, and current measurements, and eight ranges are provided for DC voltage measurement. Accuracy for all voltage and current functions is $\pm 3\%$ of full-scale readings. Convenient battery test.

An input resistance of 21 megohms on all DC ranges permits accurate test results on even the most critical low impedance circuits. Large, easy-to-read, two-color meter, mirror scale. With DC/AC ohms probe. Size: 6 7/8" x 5 1/4" x 3 1/8". Wt. 3 1/2 lbs.

No. 35A3071, Model WV510A, Each 54c
No. 21B141, VS323 9-Volt Battery (4 required) Each 20c
No. 21A1, VS036 "D" Battery (1 required) Each \$ 9.00
No. 35A8032, WG401A Replacement AC-DC Probe, Each \$ 9.00
No. 35A395, WG301A, RF Probe, Each \$ 9.00
No. 35A8046, WG411A, Hi-Voltage Probe with WG436A Multiplier Resistor, Each \$19.25



RCA

MASTER CHRO-BAR COLOR BAR GENERATOR/ SIGNALYST

IC circuitry throughout. Supplies output for all test signals not only at RF (Ch. 3) but also at IF and video frequencies. Gives color bars, dots, crosshatch, horiz. lines, vert. lines, blank raster and exclusive superpulse—a white rectangle centered on screen. Provides pulse-type waveforms for troubleshooting. Also gives brightness line on leading edge of 3rd, 6th, and 9th color bars. Power source 120V, 60 Hz. Comes with shielded cable (BNC connectors), direct adapter, 300 ohm transformer, cable for gun killer and application booklets. Size 4" H. x 10" W x 8" D. Shpg. wt. 7 lbs.

No. 35A3136, Model WR-515A Each \$179.00

RCA WR-508B MINI CHRO-BAR SOLID-STATE COLOR-BAR GENERATOR

Provides colorbar, dot, crosshatch, and blank raster patterns. All solid-state circuitry, including IC's. Pattern signals, RF output frequency, and color subcarrier all crystal-controlled. Compact size-lightweight. Interchangeable slide-out compartment for battery or AC module. Solid patterns—no flicker. Three special pattern adjust controls on rear panel for easy reset, if required. Battery included. Size 6 1/2" x 3" x 4". Wt. 1 1/2 lbs.

No. 35A3115, Each \$85.00

RCA W0505A 5" SOLID-STATE OSCILLOSCOPE



High-performance oscilloscope designed for general purpose use. The rugged, solid state construction of the W0-505A makes it a lightweight, easily portable instrument. The many applications of this versatile oscilloscope include industrial maintenance, trouble-shooting, general waveform analysis, radio and TV servicing, and peak-to-peak voltage measurement.

Features: • All solid-state circuitry. • Flat-face 5" CRT. • Return-trace blanking. • Illuminated graph screen calibrated directly in volts. • Provision for connection to vertical deflection plates of CRT. • Usable frequency response to 8 MHz. • Regulated power supply prevents trace bounce; excellent stability. • Camera mounting studs. • DC vertical amplifier; DC/AC input. • High-frequency horizontal sweep; solid lock in on 5 MHz. • Preset TV "V" and "H" frequencies for instant lock-in. • Phase control. • Trace polarity reversal switch. • Built-in square wave signal for voltage calibrating P-P measurements. • BNC "V" input connector. • High sensitivity (.05 V range).

Size: 11 3/4" X 15 1/2" X 9". Wt. 25 lbs. For 105-130 volt 50-60 Hz. AC. Includes WG-400A Direct/Low Capacitance Shielded Probe and Cable. No. 35A3070. \$299.00
Model W0505A, Each \$299.00
No. 35A8048, WG302A RF-IF-VF Probe, Each \$13.50
No. 35A8047, WG-354A Capacitance-Type Voltage Divider Slip-On Probe \$12.50



NEW RCA WC-528A TRANSISTOR QUICK TRACER

Use with any general purpose oscilloscope to make rapid point-to-point checks of transistors (excluding FET'S), Zener diodes and other diodes, capacitors, and resistors. Distinctive quicktrace waveforms indicate at a glance whether the component under test is functioning properly. Has power-limiting circuit to prevent damage to semiconductors under test. Complete with special applications manual containing extensive quicktrace testing information and numerous waveform illustrations. Shpg. wt. 1 lb.

No. 35A3135, Each \$14.75

NEW RCA WE-130A SOUND LEVEL METER



Portable, low-cost environmental sound measurement device. Simple to operate. Easy to read 70-110dB scale is color coded for safe, questionable and unsafe sound levels. Tells you instantly if sound levels are loud enough to cause loss of hearing over prolonged exposure or are in violation of federal, state, or local laws. Also handy to check effectiveness of tiles, pads, baffles, and walls. Frequency response is "A" weighted to closely correspond to human hearing. Ceramic omnidirectional microphone element. Slow meter response time; accuracy 1dB (50-90 deg. F.) Complete with leatherette carrying case, belt loop, shoulder strap, lanyard, 4 AA batteries and instruction manual. Size: 6 7/8" L X 3" W x 1 5/16" D. Wt. 1 1/2 lbs.

No. 35A3134, Each \$75.00

RCA WC-506A TRANSISTOR DIODE CHECKER



Fast relative gain and leakage measurements of NPN and PNP transistors. Forward and reverse diode-current checks. Panel socket and test leads for out-of-circuit measurements. Panel switch for high-and-low leakage transistors. Quick-connect diode test terminals. Battery operated. Small, compact, inexpensive. Measures 3 3/4" x 6 1/2" x 2". Weighs just 14 ozs. Bakelite case.

No. 35A3054, Each \$18.00
No. 21A3, Penlight Battery (Requires 2) Each 16c

RCA WV-120A POWER LINE MONITOR



Provides a continuous, accurate indication of AC line voltage. Expanded 2-color scale—from 100 to 140 volts for easy reading. Input 100 to 140 volts @ 25 to 400 cps. High accuracy $\pm 2\%$ at center scale, $\pm 3\%$ at scale ends. Moving vane meter gives accurate RMS readings. Fast meter action reveals "bounces" and fluctuations in line voltage. Large numerals, large pointer, large scale for easy reading. With AC outlet. Holes for wall mtg. 3 1/4" High, 5" wide, 3 1/4" deep.

No. 35A3051, Shpg. Wt. 1 1/2 lbs. \$20.75

RCA WV-503A POWER LINE MONITOR

Input voltage range 200 to 280 Volts. Otherwise the same as above. No. 35A3118, Each \$20.75

SPECTACULAR TEST INSTRUMENT VALUES

FACTORY WIRED, CALIBRATED...READY TO USE



MURA DELUXE MODEL 80-M 20,000 OHMS/VOLT

LESS THAN 1/4 THE COST OF COMPARABLE
AMERICAN MADE TESTERS!

- Mirrored scale.
- Ultra-sensitive. 44 microamp D'Arsonval movement.
- 1% matched precision resistors throughout.
- Diode overload prevention device.
- 26 ranges, on "Easy-Read" 2-color scale.
- Accuracy $\pm 2\%$ full scale.

Test instrument of unusual quality, designed and built to precision standards. "Easy-read" multi-colored mirrored scale permits readings with hair-line accuracy. A network of safety diodes blocks off excess current, protects the movement from burning out.

Specifications: Sensitivity: 20,000 ohms/volt DC; DC volts: .25, 2.5, 10, 50, 250, 1000, 5000 volts; AC volts: 2.5, 10, 50, 250, 1000, 5000 volts (8000 ohms/volt); DC current: 50 μ a, 2.5-25-250 MA, 10 amps; Ohms: 0 to 10, R \times 10, R \times 100, R \times 1000 (10 megohm maximum); DB: -20 to +62 in 5 ranges. Dimensions: 7x5 1/4 x 3 1/2". Instructions and schematic included. Shipping wt. 5 lbs.

No. 35A3026, Model 80-M. Each... **\$32.95**
No. 35A3065, Carrying Case, Each... **\$7.95**

100,000 OHMS PER VOLT MIRRORED SCALE MULTIMETER

Low current and voltage ranges necessary for solid state servicing.

Overload protected by dual silicon diodes. Double jewelled 2% meter 1% temperature-stabilized resistors. Easy to read mirrored scale, single control range selection. Twenty seven ranges for current, voltage and resistance at your fingertips. Full meter protection includes diode protection for meter movements.

DC volt sensitivity 100,000 ohms per volt. AC volt sensitivity 12,500 ohms per volt. DC volts: .5, 2.5, 10, 50, 250, 500, 1000. AC volts: 2.5, 10, 50, 250, 1000. DC current: 10 μ a, 250 μ a, 2.5 MA, 25 MA, 250 MA, and 10 Amp. Resistance: 0-20K, 200K, 2 meg, 20 meg. Mid-Range resistance reading at mid-scale: 160, 1600, 16,000, 160,000. Decibels -20 to +62 in 5 ranges. With instructions. Quality crafted import.

No. 35A3059 **\$38.95**
Each



SOLID STATE F.E.T. MULTIMETER 24 TEST RANGES

DeLuxe Leather Case

- 4" mirrored scale
- Solid state circuitry
- 12 Megohm input for DC ranges
- 10 Kohm input for AC ranges
- Meter overload and burnout protection on all ranges
- Accuracy $\pm 3\%$ all ranges

Compact, high quality multimeter with the most wanted professional features. Power on-off switch saves batteries. DC polarity reversing switch. Zero adjustment and zero ohms control.

Specifications: DC Voltage: 0-300 Mv-12-12-60-300-1200 V.; AC Voltage: 0-3-30-120-300-1200; DC Current: 0-.6-60-600 μ a-600ma. Resistance: 0-10K-1M-10M-10,000M. Decibels: -20 to +63 in 5 ranges.

Rugged high impact cabinet. Includes test leads, DC probe, batteries, and deluxe carrying case. Size 6 1/2" x 4 3/4" x 2 1/4". No. 35A3121. **\$59.95**
MIDLAND MODEL 23-152



\$7.95

① POCKET-SIZE VOM TESTER

1,000 Ohms per Volt - 12 Ranges. Outstanding features include precision jeweled movement, wide-view 2-color scale, and 11-position range selector for easy operation. High impact plastic case in textured "sure grip" finish. DC: 0-10-50-250-1,000 (1,000 ohms/vol) AC Voltage: 0-10-50-250-1,000 (1,000 ohms/volt) DC Current: 0-1-100 Milliamps. Resistance: 0-150K ohms. Decibels: -10 to +22. Ultra-compact size... measures just 3 1/2" to 2 1/4" x 1". Includes battery, test leads, and instructions.

No. 35A3106. **\$7.95**
Quality Import



\$16.95

② POCKET-SIZE MULTIMETERS WITH LONG SCALE

20,000 Ohms Per Volt DC Sensitivity. Exceptionally fine meter featuring a 3 1/2" easy reading scale. DC volts ranges 0-10-50-250-1000. AC volts ranges 0-10-50-250-1000. DC current 0-50 μ a, 0-250 MA. Resistance 0-60,000 and 0-6 meg. Decibel -20 to +22. Features 50 microamp recessed range selector switch D'Arsonval meter movement and precision resistors throughout. Readability is superior on all low ranges making this an excellent instrument for servicing transistor equipment.

Molded black case 4 1/2" H. x 3 1/4" W. x 1" deep. With test leads, instructions and battery. Shpg. wt. 2 lbs. No. 35A618. Special Each **\$16.95**



\$19.95

③ POCKET-SIZE MULTIMETER

Built-in overload protection circuit—Burnout Proof!

20,000 ohms per volt DC. Pocket multimeter designed for accuracy in the field or on the technician's bench. Easy-to-read heavy black numbers carefully scaled for quick, exact reading. Crystal clear high impact plastic front takes rough treatment and gives full scale view. Popular swinging-lever range-selector allows easy selection of ranges. DC volts ranges: 0-5-25-100-500-1000. AC volts ranges: 0-5-25-100-500-1000. DC current ranges: 0-50 μ a, 5 MA, 50 MA, 500 MA. Ohms: 0-6,000, 60,000; 6 Meg, 60 Meg. Expanded low end scale. Decibels: -20 db to +62 db (5 ranges). Size, 4 3/4" H. x 3" W. x 1 1/4" D. Heavy duty bakelite case, precision 250 μ a D'Arsonval movement, pin jacks. With batteries, test leads, leather case, instruction manual.

No. 35B569. Shpg. wt. 2 lbs. Giant Import Savings. Each... **\$19.95**

④ SUPER SENSITIVE MULTIMETER

New eye-appealing design, compact size, full view type meter, clear uncomplicated scales, easy to read for greater accuracy. Compares with meters selling for more than double our low price.

30,000 ohm per volt model. 22 Ranges: DC volts 0 to 3, 12, 60, 300, 600, 1200; AC volts 0 to 6, 30, 120, 1200. DC current 0-30 μ a, 3 MA and 300 MA. Ohms up to 16 meg. In 4 ranges with expanded low end scale, 100 ohms at center. Decibels -20 db to +63 db in 5 ranges. Has knife-edge pointer, clear uncluttered scales, recessed flush type range selector, ohms adjust and four meter jacks. Overall size 5 1/2" H. x 3 1/2" maximum width and 1 3/4" D. Wt. 3 1/2 lbs. Complete with case, test leads and batteries. No. 35B568, Big Import Value, Each... **\$24.95**

Any Of These Testers Can Be Purchased On B-A's E-Z Pay Revolving Charge Plan

TIME SAVING TEST EQUIPMENT

LEADER MODEL LBO-501 5-INCH TRIGGERED OSCILLOSCOPE



An improved oscilloscope with one shot sweep circuit. Electron beam remains in stationary position, does not deflect until "triggered on" by an input waveform or transient. When on beam sweeps across CRT displaying incoming wave shape, then returns to rest. Each succeeding pulse causes beam to deflect again giving effect of a repetitive waveform. Triggered sweep makes possible to observe non re-occurring transients. Horizontal deflection makes it possible to measure frequency or duration of waveforms and pulses. Can be operated in automatic or conventional free running state.

Specifications: Vertical amp. sensitivity: 20mVpp/cm to 10 Vpp/cm, 9 steps in 2-5-10 sequence and uncalibrated continuous adjuster. Bandwidth.

—3 db DC or 2 Hz to 10 MHz. Rise time 35 nanoseconds. Input Imp: 1 megohm, shunted by 33 pf. Calibration: square wave 0.05, 0.5 and 5Vpp; 1K Hz approx. Horizontal amp. sensitivity: 200 mVpp/cm or better. Bandwidth. —3 db, 2 Hz to 200K Hz. Input Imp: 1 megohm, shunted by 40 pf. Time base sweep speeds: μ s/cm to 0.2s/cm, 17 steps in 1-2-5 sequence and uncalibrated continuous adjuster; TV: V (for 30 Hz) and H (for 15.75K Hz / 2). Magnification: X5 (max speed 0.2 μ s/cm). Trigger slope: \pm . Sync: INT and EXT: \pm . Edge lighted graticule. Vectorscope input. Size: 10 1/2" H x 8" W x 1 1/2" D. Wt. 20 lbs.

No. 35A3094. Model LBO-501. Each **\$389.95**
No. 35A8054. LPB10Y. Low Capacitance Probe. Each \$17.50



LEADER MODEL LCG-388 COLOR BAR GENERATOR

15 PATTERNS
PERFECTLY STABLE THE INSTANT YOU TURN THE POWER ON!

Flip the switch and you can select from 15 patterns including the single dot, single cross, single horizontal and single vertical. The magic is in Leader's binary counters and gates not available in any other generator. Only one input connection to the receiver, channel 5 or 6 selective. Return trace blanking applied to horizontal and vertical signals. Chroma level control. Gun killers for convergence adjustments. Composite video signal for video circuit testing. Regulated DC supply. Operates on 105 to 125 volts, 50/60 Hz. 3 1/8" x 7 3/4" x 7 3/4" D. Wt. 4 1/2 lbs. Engineered to the highest standards of performance. From Japan.

No. 35A3061. Model LCG-388 **\$174.95**

MURA MODEL 325-M IN/OUT CIRCUIT TRANSISTOR TESTER

This is a compact, highly accurate instrument designed to test transistors both in and out of circuit. It tests beta measurements, leakage on transistors. Tests diodes for gain short or open - while still in circuit. Accuracy is \pm 5%.

Beta Measurements (DC). 20 to 100 on X1 range, 20 to 1000 on X10 range. Out-of circuit accuracy: \pm 5%, in-circuit. Indicates good or bad.

Leakage Measurements. Collector-to-Emitter Leakage ICBO: 0-5ma, Collector-to-base Leakage, ICBO: 0-5ma. Diode Tests. In-circuit and out-of-circuit; meter indication

showing diode gain, short or open. Power requirements, One 1 1/2-volt "C" battery. Dimensions: 6 7/8" x 5 1/4" x 3". Wt. 1 lb. (with battery).

No. 35A3140. Each **\$45.00**
No. 21A2. "C" Battery. Each 20'

TRANSISTOR TESTER

Checks transistors in circuit or out of circuit under operating conditions. Plug transistor into front panel socket or connect with alligator clip test leads provided. Safely identifies low, medium and high power PNP and NPN transistors. Checks electrode open circuits, short circuits and current gain. Makes it simple to match transistors for critical circuits. Neon indicator gives a visual indication of circuit output. Output jacks for use with an AC voltmeter or oscilloscope to measure signal output as low as 5 MA, make sensitive noise tests studying dynamic leakage distribution and wave form inspection.

Black plastic case with aluminum panel. Size 6 1/4" x 2 x 3 3/4" W. Full instructions supplied. Shpg. wt. 2 lbs. Imported at Big Savings!

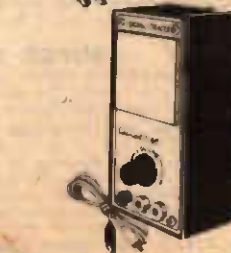
No. 35A667 **\$12.95**

Special Each

SIGNAL TRACER

Makes service problems easy to locate. Permits audible signal tracing of RF, IF and audio circuits. Easy to operate stage-by-stage tracing of signal from antenna through audio. Has solid state circuit with 4 transistors. Built-in 2" speaker with volume control. Comes with 9 V battery, test leads and instructions.

Black plastic case with aluminum panel. Size 5 x 2 3/8 x 1 1/2" D. Shpg. wt 1 lb.
No. 35A668. Import Special **\$12.95**



CLAMP-ON TYPE AMPERAGE TESTER



Big, easy-to-read 3-color scale. Measures AC amperage, voltage, and resistance with 3% accuracy. Special meter stop-button locks meter pointer so readings can be made when darkness or location prevent visual observation of meter face. Thumbwheel range selector, recessed thumbwheel zero-ohms control. Probe input jacks for voltage and ohms. Fuse-type overload protection. Moving-coil meter movement. AC amperage, 5-Ranges - 6-15-60-150-300 A. AC voltage, 3- Ranges - 150-300-600V. Resistance, 1K ohms (30 ohms center scale). Face measuring 2-3/16" x 2-3/8". Size 7-3/4" long x 3-3/8" W x 1-1/2" D. Unit weighs 13 oz. With black leather carry case, shoulder strap, two fuses, color-coded probes, and instructions.

No. 35A3141. Quality Import. Each **\$44.95**

MIDLAND POCKET SIZE BATTERY TESTER

4 Ranges. Checks all popular flashlight, transistor radio, and hearing aid batteries. Four ranges: 1.5, 4.5, 6 and 9 volts. 2" meter scale with colored battery condition indicators. Places a minimum load of 50 Ma. for accurate readings. Compact high impact case measures 2 1/4" x 3 3/8" x 1 1/8". Includes test leads.

No. 35A3123. Model 23-154 Each **\$6.95**

"IN-CIRCUIT" TRANSISTOR TESTER

Places transistor into actual operation. Operates upon contact. Clear speaker tone—no visual observations to make. Tests transistors in or out of the circuit. Maximum voltage applied to the base-emitter junction by tester is 0.8 volts.

To Operate—Set the selector switch to NPN or PNP. Place the contacts of the tester in the correct position on the printed circuit board. The tester will emit a tone indication that the transistor under test is a functioning unit. The absence of a tone indicates a shorted or open transistor. Setting the selector switch to the wrong position will cause no harm to your circuit. Plug-in extender cable included. 9 volt battery included.

No. 35A3142. Production Devices Model 85. Each **\$17.45**

No. 35A3144. Continuity and diode Testing Adaptor Model 86. Each **\$3.75**

DIGITAL LOGIC TESTER

Hi tone-indicates Hi logic "1". Lo tone-indicates lo logic "0". No visual observations to make. A complete electronic tester compatible with DTL & TTL. Ideal for trouble shooting logic circuits, including computers, telephone systems, digital test equipment and desk calculators. A feather weight retractable cord permits easy handling of the probe.

TO OPERATE—Connect power leads to +5 V.D.C. in equipment being tested. Logic "1" or "0" may be determined by placing probe on various circuit points.

Power leads are reverse polarity protected. Input impedance—greater than 150K ohms. Prevents loading of circuit under test. Overload Input Protection: +50 VDC continuous (input is reverse polarity protected.) Logic voltage levels: 0-8 VDC—Low tone, .8-2.2 VDC—None, 2.2 VDC & up—high tone. Size 7/8" D x 6" L. Wt. 2.5 oz.

No. 35A3143. Production Devices Model 95. Each **\$19.95**

BUZIT TRANSISTORIZED SIGNAL TRACER

No clips or wires. Used for trouble-shooting AF circuits, IF circuits, RF circuits, continuity checks, speakers, etc. Excellent for transistor radios because Buzit uses only a 3 volt power supply. With 2 Size N batteries. Shpg. wt. 8 ozs.

No. 35A3010. Workman BZ1. Each **\$9.72**

CHEK-IT ELECTRICAL CIRCUIT TESTER

Battery operated. Tests with power off. Tests continuity, fuses, switches, buzzers, push-buttons, chimes, appliances, motors, auto ignition and voltage regulators, etc. Less battery. Wt. 8 ozs.

No. 35A3031. Workman BZ5. Each **\$1.89**

No. 21A3. Battery for above. Each 17c

EICO PST-2 SIGNAL TRACER PROBE

Versatile Signal Tracer is a 6 3/8" x 5/8" probe containing a high gain amplifier with wide audio bandwidth. Demodulator probe tip traces signals to 200 Mhz. Sensitive plug earphone compares signal levels, checks distortion and signal quality. Self powered, uses one AA battery (not included). Complete with 3 probe tips and pouch. Shipping wt. 8 oz.

No. 35A8058. Eico PST-2K Kit. Each **\$19.95**

No. 35A8059. Eico PST-2 Factory Wired. Each **\$29.95**

No. 21A3. Battery for above. Each 17c

EICO PSI-1 SOLID-STATE SIGNAL INJECTOR PROBE

Just press the button, the PSI-1's transistor oscillator emits a strong harmonics rich 1Khz. signal to check audio, IF and RF circuits. Pocket size, powered by two AAA batteries (not included). Shipping wt. 8 oz.

No. 35A8060. Eico PSI-1K Kit. Each **\$5.95**

No. 35A8061. Eico PSI-1 Factory Wired. Each **\$9.95**

No. 21C60. Battery for above. Each 17c



PAINTS, CLEANERS AND SILICONES!



- ① **Krylon Clear Plastic Spray.** Seals . . . protects . . . resists rust and corrosion. Transparent plastic protective coating adheres to practically any surface. Seals out air, water, chemicals, oil, grease and acids. Protects automotive chrome, golf clubs, fishing rods, tools, leather goods, photos, blue-prints, etc. Seals TV antennas against corrosion. Fast drying. Shpg. wt. 1 lb. No. 17A1316. #1302-For Radio & TV 13 Oz. Can 12-47
No. 17A1317. #1303-For Graphic Arts Choice 1-11 Each...\$1.35 Each...\$1.22
- ② **Electric Motor Cleaner.** Just spray on . . . cleans without washing or wiping. Instantly penetrates, dissolves, cleans and removes grease, oil, dirt from motors, electrical-electronic equipment, etc. Evaporates completely—leaves no residue. Safe to use on insulation and painted surfaces.
No. 17A1318. 16 Oz. Spray Can. \$1.24
- ③ **Chalk Board Spray.** Just spray it on lumber, glass, hardboard, wallboard . . . virtually any smooth surface and it becomes a convenient useful chalk board. Also refinishes factory made boards. Dark Green.
No. 17A1319. 15 Oz. Can. \$1.65
- ④ **Glass Frosting Spray.** Insures privacy, when applied to windows, etc. Obscures vision, yet allows light to enter. Diffuses and eliminates glare from lamp reflectors, bulbs, shades and outside lights. Ideal for decorating glass doors and partitions. Non-toxic. Removable with lacquer thinner or may be scraped off with razor blade to return glass to original condition.
No. 17A1320. 15 Oz. Spray Can. \$1.47 No. 17A1356. 6 Oz. Spray Can. 89c
- ⑤ **Crystal Clear Glaze.** New triple thick, glossy, glass-like coating for hundreds of surfaces. Sprays instantly, evenly. Durable, never cracks or yellows.
No. 17A1380. 16 Oz. Spray Can. \$1.49



NO BRUSHING,
NO MIXING,
NO MUSS OR
WASTE!

GIANT 16 OZ. SIZE DISPENSER TOP QUALITY SPRAY ENAMEL PAINT

\$1.49 ASST. COLORS **\$1.29**
EACH 12 LOTS, EACH

Just press the button and spray . . . exclusive built-in governor regulates spray prevents sagging, running or bubbling. Dries in just 5 minutes. Won't work off, peel off or chip off. Non-toxic. 16 oz. size can covers approx. 200 sq. ft. All colors with asterisk* have Rustcor rust preventive. Easy to follow directions on can. Wt. 1 lb.

- 17A4000—Appliance White*
- 17A4001—Chrome Aluminum*
- 17A4002—Battleship Grey*
- 17A4003—Garden Green*
- 17A4004—Medium Blue*
- 17A4005—Chinese Red*
- 17A4006—Dove Grey*
- 17A4007—Gloss White*
- 17A4008—Gloss Black Lacquer*
- 17A4009—Gloss White Lacquer*
- 17A4010—Flat Black Lacquer*
- 17A4011—Flat Black*
- 17A4012—Flat White*
- 17A4013—Gloss Black*
- 17A4014—Zinc Chromate Primer*
- 17A4015—Grey All-Purpose Primer*
- 17A4016—Mist Green*
- 17A4017—Brile Gold*
- 17A4018—Coppertone Metallic
- 17A4019—Antique Gold

WRINKLE FINISH SPRAY PAINT

Gives a rich, professional wrinkle finish to any surface. Air dries or can be baked. Perfect for office equipment, appliances, tools, test equipment, tackle boxes, etc. Easy to use—just spray on—it wrinkles as it dries. No. 17M4020. Specify Color—Forest Green, Silver, Tropical Tan, Opal Gray, Black or Blue. Shpg. wt. 1 lb.

HAMMERTONE SPRAY

For custom finishing or touch-up of chassis racks, panels, etc. Just spray it on—no brush streaks, or mess. Provides hammer finish found only on the finest electronic equipment. Made by Illinois Bronze. 16 Oz. size can. No. 17M4021. Specify Color—Silver-Gray, Gold, Copper, Green, Charcoal-Gray or Blue.

YOUR CHOICE \$1.49 12 Cans
EACH (Colors can be Assorted) Each **\$1.29**

GENERAL ELECTRIC SILICONE LUBRICANT

Based on a new chemistry which makes it superior to any other silicone lubricant on the market. Handles tough lubricating jobs such as aluminum storm windows, sliding doors, bathtub enclosures, etc. Lubricates almost any material. Won't melt, run or "gum up" from -70° to 400°F. Highly effective rust and corrosion preventative. Pair* able! Unlike most silicone sprays, it does not contaminate surfaces to be painted. 6 oz. Aerosol can.
No. 17A1402.

\$1.39

GENERAL ELECTRIC SILICONE SEAL

Super Glue. 100% rubber. Bonds securely to glass, ceramics, metal, wood, fabrics, masonry, painted surfaces, most plastics, and rubber. Permanent Caulk. Will not shrink, crack or dry out. Remains flexible and elastic and can stretch over 100%. Originally developed for sealing space vehicles. Guaranteed 10 years to perform as described on tube. Return tube to General Electric Co. for refund or replacement if not satisfied.

Stock No.	3 Ounce Tubes	Each	5 Each
17A1345	White Seal	\$1.59	\$1.49
17A1342	Transparent Seal	1.59	1.49
17A1344	Black Seal	1.59	1.49
17A1341	Aluminum Seal	1.59	1.49
12 ounce cartridges for use with standard caulking gun.			
17A1378	White Seal	\$3.59	\$3.29
17A1379	Transparent Seal	3.59	3.29

G.E. SILICONE COMPOUNDS

Room temperature vulcanizing compounds for sealing, potting and encapsulating provide the superiority of silicones, resisting temperatures of -65°F to +400°F. Unaffected by ozone, sunlight and weathering, dielectric breakdown better than 400 VAC per mil.

GP-1 adhesive sealant is ready to use liquid rubber, cures to a tough, resilient adhesive, never hardens, dries out, or cracks. GP-1 repairs glass cracks, rubber, plastics, seals metal joints. Use for caulking, to secure vibrating parts, etc. Bonds without primer.

GP-2 is a two part base compound and curing agent for mixing when used. Cures in 24 hours

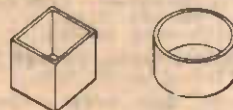
at room temperature. Designed for conformal coatings, encapsulating and potting. Gray color is for motor windings and electrical insulation.

GP-2X has double the strength of GP-2 and is suited to casting special parts and molds for epoxies and plastics, or for extra tough gaskets and seals.

GP-9 primer prepares non-silicone materials for bonding to GP-2 and GP-2X. May be sprayed, dipped or brushed and dries in about one hour.

Stock No.	G.E. No.	Color and Pkg.	Description	Each
17A1409	GP-1W02	White 2 oz. tube	Soft paste	\$1.35
17A1410	GP-1W05	White 5 oz. tube	Soft paste	2.55
17A1411	GP-1W12	White 12 Oz. caulk	Soft paste	4.00
17A1412	GP-1C02	Translucent 2 oz. tube	Soft paste	1.35
17A1413	GP-1C05	Translucent 5 oz. tube	Soft paste	2.55
17A1414	GP-1C12	Translucent 12 Oz. caulk	Soft paste	4.00
17A1415	GP-2T01*	Tan 1 lb. kit	Low Viscosity Liquid	8.15
17A1416	GP-2T13*	Tan 13 lb. kit	Low Viscosity Liquid	97.00
17A1417	GP-2R01*	Red 1 lb. Kit	Medium Viscosity Liquid	8.15
17A1418	GP-2R13*	Red 13 lb. Kit	Medium Viscosity Liquid	97.00
17A1419	GP-2G01	Gray 1 lb. Kit	Spreadable Paste	8.15
17A1420	GP-2G13	Gray 13 lb. Kit	Spreadable Paste	97.00
17A1421	GP-2B01X	Black 1 lb. Kit	Medium Viscosity Liquid	10.00
17A1422	GP-2B10X	Black 10 lb. Kit	Medium Viscosity Liquid	85.00
17A1423	GP-9U16P	Blue Primer	Pint Liquid	5.40
17A1424	GP-9U00P	Blue Primer	Gallon Liquid	40.00

* Recommended for potting and encapsulating. GP-2 is available in 55 lb. drums, GP-2X in 44 lb. drums. Ask for quotation.



ENCAPSULATION HOUSINGS

Made of high strength epoxy, blue color. Use with G-E Silicone Compounds above or any other encapsulating compound.

KEYSTONE SQUARE CASES

Stock No.	Mfgr. No.	L" W" H"	Wall Thickness	1-19 Each	20-99 Ea.	100 up Ea.
12A10102	4416	.5x.5x.75	.04"	.55	.49	.42
12A10103	4417	.75x.75x1.	.04"	.62	.53	.47
12A10104	4418	1.x1.x1.5	.05"	.97	.83	.73
12A10105	4419	1.25x1.25x1.75	.05"	1.57	1.34	1.18
12A10106	4420	1.5x1.5x2.	.05"	1.64	1.39	1.23

KEYSTONE CYLINDRICAL CASES

Stock No.	Mfgr. No.	L" W" H"	Wall Thickness	1-19 Each	20-99 Ea.	100 up Ea.
12A10107	4421	.5 OD X .875	.032"	.42	.38	.33
12A10108	4422	.625 OD X .875	.036"	.45	.39	.34
12A10109	4423	.75 OD X 1.	.036"	.55	.49	.42
12A10110	4424	.875 OD X 1.	.036"	.58	.51	.44
12A10111	4425	1. OD X 1.25	.036"	.70	.60	.53
12A10112	4426	1.25 OD X 1.25	.036"	.74	.63	.56
12A10113	4427	1.5 OD X 1.5	.036"	.97	.83	.73
12A10114	4428	1.75 OD X 1.7	.036"	1.09	.93	.82

ELECTRONIC CHEMICALS AND LUBRICANTS



- ① **G-C Contact Burnishing Kit.** For servicing relays, switches, etc. Removes oxide and corrosion from contact points without removing precious metal. Contains 2 oz. bottle contact cleaner and burnishing tool.
No. 17A1324. G-C 9339. Each.....97c
- ② **GC-Relay-Kleen.** Excellent for cleaning relays and all types of contacts. Does not have oily deposit. Non-flammable.
No. 17A1312. CC8682. 6 Oz. Spray Can.....\$1.89
- ③ **Insl-X Red Insulating Tool-Dip.** Used by major utility companies for insulating power linemen's tools. Gives more than adequate protection against 110 to 220 volts exposure. Dielectric strength 1500 v/m. Resists acids, alkalis, and petroleum derivatives.
No. 17A1368. 1 pint can. Each.....\$2.00
- ④ **Insl-X E-26 Clear Insulating Spray.** Quick dry—3 to 5 minutes. Insulate everything in TV except moving parts and tubes. Prevents corona, arcing—keeps out moisture.
No. 17A1327. 12 Oz. Can.....\$1.99

PRINTED CIRCUIT SERVICE AIDS

- Silver Print**—Contains pure silver powder as pigment. Use for making or repairing printed circuits. Ideal for applying conductive coating to non-conductive materials. Brush applicator attached to cap. 1/2 Troy oz.
No. 17A1348. GC 21-1.....\$4.75
- Copper Print**—A highly conductive, fast drying, compound for repair and touch-up of printed circuits. Complete with brush-cap bottle. 2 oz.
No. 17A1349. GC 20-2.....\$2.25
- Print-Kote Solvent.** Dissolves, removes silicon resin from printed circuits.
No. 17A1372. GC 13-2. Each.....55c
- Print-Kote Soldering Flux.** Non-corrosive liquid flux for easy soldering and repairing of printed circuits. Brush applicator on cap.
No. 17A1373. GC-12-2. Each.....65c
- Transistor Z5 Silicone Compound.** Maintains efficient heat transfer from transistor to chassis.
No. 17A1308. GC 8101. 1 Oz. Tube.....\$2.39

E.I.A. COLOR CODING KIT

Kit contains jar each of red, grey, white, black, brown, orange, purple, blue, green and yellow high quality fast drying lacquer enamel. Complete with brush and color code chart.
No. 17A1347. Per Kit.....\$3.00



KNOB-PLASTIC REPAIR KIT SETS ROCK-HARD IN 7 MINUTES

New fast-setting material repairs anything of plastic. Ideal for joining broken or new parts, creating new plastic to match or fill repairs, as needed. Completely moldable in setting stage, conforms to any shape. Once set, it may be sanded, sawed, drilled, tapped or polished. Contains two mixing ingredients plus color kit.
Shpg. wt. 1/2 lb.
No. 17A1346. Each.....\$1.75



GENERAL CEMENT "EPOX" CEMENT KIT

Bond anything to anything. Provides super strength. Bonds to metal, ceramics, etc. Resistant to water, solvent, heat, cold and fungus. Has very good dielectric properties. Contains two mixing ingredients in 1 1/2 oz. tubes.
No. 17A1343
CC346. Kit.....\$1.95



SAVE ON CEMENTS AND CHEMICALS

① CEMENTS

- SERVICE CEMENT**—For replacing and repairing speaker cones; sealing adjustments, cementing loose tube bases, etc. Fast drying.
17A1337—2 oz. Bottle.....\$0.65
- 17A1338—2 oz. Tube.....95c
- 17A1339—8 oz.....1.75
- 17A1340—1 Pt.....3.00

SERVICE SOLVENT—Loosens old cement. Also thinner for cement. CC31
17A1328—2 oz.....59c
- 17A1329—8 oz.....\$1.10
- 17A1330—1 Pt.....\$1.69

LUCITE CEMENT—For lucite and other acrylic materials. CC40-2
17A1331—2 oz. Jar. Each.....60c

RUBBER TO METAL CEMENT, CC35-2
17A1332—2 oz. Jar. Each.....65c

Q-DOPE (COIL DOPE)—Coats and seals coil windings, etc. Low RF loss. Ideal for Hi-Freq. use. CC37-2
No. 17A1307—2 oz. Bottle. Each.....60c

PLI-O-BOND CEMENT—It bonds anything to anything—iron, steel, plastic, glass, aluminum, etc. A truly universal cement.

17A1333. G-C 43-2, 2 oz. bottle with brush.....65c
- 17A1334. G-C 43-8, 8 oz.....\$1.50

ANTI-CORONA LACQUER—Has high dielectric strength to prevent corona in TV high voltage. CC 47-2.
17A1336—2 oz. Bottle. Each.....85c

② CEMENT LAB KIT

14 different 2 oz. bottles cement.
No. 17A1335. CC345. Per Kit.....\$9.05



**LUBRICATES, PENETRATES,
STOPS RUST OUTDOORS
2 YEARS OR MORE...
DRIES ELECTRICAL SYSTEMS**



LPS #1—A fine, non-sticky film that: Dries out electrical equipment in seconds! Stops rust on all metals—parts in manufacture—storage—shipment. Finest lubricant for precision mechanisms. Loosens rust frozen parts—fast!
No. 17A1305. 7 oz. LPS #1 Spray Can Each.....\$1.40 12 Each.....94c
- No. 17A1306. 16 oz. LPS #1 Spray Can Each.....\$2.35 12 Each.....\$1.59

LPS #2—Protects metals outside up to 1 year. Dries out electrical equipment in seconds! Protects parts in storage for years. Proved to be an excellent fine lubricant and a fast penetrant.
No. 17A1370. 16 oz. LPS #2 Spray Can Each.....\$2.75 12 Each.....\$1.85

LPS #3—Stops rust outdoors for 2 years or more! Protects all metals against severe salt, acid, chemical corrosion conditions. Protects parts in storage 5 years or more. Lubricates and protects outdoor working equipment.
No. 17A1371. 16 oz. LPS #3 Spray Can Each.....\$2.75 12 Each.....\$1.85

INSTANT CONTACT CLEANER

A chemically pure cleaning agent with: Selective Cleaning Power—removes greases, oils, dirt and organic soils with no effect on the article being cleaned. Excellent Penetrating and Wetting Action—its high density and low surface tension permits maximum penetration of most minute crevices where its superior wetting action then cleans even most difficult materials. Evaporates completely, leaves no residue, non-explosive, non-flammable, non-toxic, and does not react chemically with other materials.



- No. 17A1400. 7 oz. Aerosol can. 12 Lots Each.....\$1.98 Each.....\$1.29
- No. 17A1401. 16 oz. Aerosol can. 12 Lots Each.....\$3.75 Each.....\$2.49

INSTANT COLD GALVANIZE

Equals hot-dip galvanizing at 1/2 the cost! LPS Instant Cold Galvanize is not a paint! When applied to clean, dry iron or steel it generates a positive electric current that flows to the base metal. This electrochemical action fuses the zinc compound with the metal. Corrosion will attack only the outer zinc coating leaving the metal to be protected rust free. If coating is penetrated LPS Instant Cold Galvanize will sacrifice itself to protect the exposed base metal. Rust cannot spread. 16 oz. Aerosol can.
No. 17A1399. 12 Lots Each.....\$3.75 Each.....\$2.49



ARMSTRONG EPOXIES



\$2.00 PER KIT

Bond almost all rigid or semi-flexible materials. Use for potting electronic components. Non critical mixing ratios. Each kit contains sufficient resin and activator to make 2 to 4 ounces of adhesive, mixing cups, mixing paddles and instruction sheet.

- No. 17A1376. **A-34 EPOXY.** Most universal general purpose adhesive. White color. Thixotropic (paste) viscosity. Minimum working life 20 minutes. Develops handling strength overnight at room temperature or in 5 minutes at 300° F. Optimum cure, 3 days at room temperature or 30 minutes at 200° F. Bond strength 1500 psi.
- No. 17A1375. **A-12 EPOXY.** Two color system (grey & brown) gives visual control of complete mixing. Medium viscosity material. Minimum working life 3 hours. Develops handling strength overnight at room temperature or in 5 minutes at 300° F. Optimum cure in 1 week at room temperature or in 30 minutes at 200° F. Bond strength 2500 psi.
- No. 17A1377. **A-36 EPOXY.** Dark amber color. Thixotropic (paste) with easy workability system. Minimum working life 2 minutes. Develops handling strength in 5 minutes, optimum cure 18 hours at room temperature. Bond strength 2100 psi.
- No. 17A1374. **C7/H-20 EPOXY.** Clear amber color. Low viscosity (pourable). Best for encapsulating. Minimum working life 45 minutes. Develops handling strength overnight at room temperature or in 5 minutes at 200° F. Optimum cure one week at room temperature or 2 hours at 165° F. Bond strength 1000 psi.

SERVICE CHEMICALS AND ACCESSORIES



GOZINTA
A TOOL FOR JET FORCED CLEANING OF CONTROLS THROUGH FRONT PANEL

1—Remove control knob. 2—Thread Gozinta on shaft bushing. 3—Connect spray can to Gozinta and spray.

No. 17A1398 Each **\$2.19**



STOPS STATIC ELECTRICITY

\$5.00

Aerosol spray eliminates static electricity in home, office, or factory. Use on computer cards, film processing, to prevent damage to FET's, on carpets, car seats, etc. Will not stain. Non-toxic, non-flammable.
No. 17A1407. 16 Oz. Can, Each **\$5.00**



WALSCO OILETTE

Filled with high grade lubricating oil. Telescoping spout permits accessibility to difficult places requiring lubrication. Releases one drop at a time. Does not leak.

No. 17A1354. Each **\$1.13**
No. 17A1355. Oil Refill Cartridge **61c**

MIRA KLEER
ALL PURPOSE CLEANER
12 OZ. SPRAY CONTAINER **\$1.49**

Greatest Cleaner And Protective Treatment For All Hard, Smooth Surfaces We've Ever Seen!

No common detergents can remove Mira-Kleer. Ideal for cleaning radio and TV chassis. Also tends to reduce dust accumulation. Contains no wax, will not build up. Big 12 oz. spray container. Shpg. wt. 1 lb.

No. 17A1359. Each **\$1.49**

YOU MUST BE SATISFIED OR YOUR MONEY BACK

Just return container for full refund.



SPRAY ADHESIVE

Pressure sensitive for permanent or temporary bonding of paper, glass, cardboard, fabrics, styrofoam, plastic films, and metal. Precise pin-point gluing with snorkel attachment. Clear and colorless. Clog proof formula.

No. 17A1381. 16 oz. can. Each **\$1.99**

NAVAL JELLY

MAKES RUST DISAPPEAR

- No More Scraping!
- No More Sandblasting!
- No More Wirebrushing!
- Consumes 47 Times Its Weight In Rust.
- Dissolves Rust From Iron & Steel.
- Removes Rust Stains From Concrete.



Naval jelly eliminates the time and drudgery of rust removal and does the job far more effectively than old hard chemical and mechanical methods. Easy-to-use tacky gel adheres even to ceilings. Just brush it on, let stand a few minutes or several hours depending upon the depth of the rust. Hose off with fresh water and rust is gone, the dry surface will contain a rust inhibitor, a thin clean film. This will prevent further rusting and may be painted over.

Use on TV towers, pipes, fences, tools, tanks, cranes, trucks, all machinery. Removes gun blue and is ideal for rust removal from all weapons. Coverage: Naval jelly will remove rust at the rate of 80 to 200 square feet per gallon, depending upon thickness and condition of the rust.

No. 17A1384. 8 oz. Introductory Bottle. Each **\$1.49**
No. 17A1385. 2 lbs. Net Each **\$3.95**
No. 17A1386. 4 lbs. Net Each **\$7.95**
No. 17A1388. 40 lbs. Net Each **\$26.00**
No. 17A1389. 55 gal. drum. Net Each **\$176.00**

B-A's TV SERVICE CHEMICALS

FANTASTIC SAVINGS!
TOP QUALITY



- (1) B-A Tuner & Control Cleaner & Lubricant. Just spray tuner or control, leaves long-lasting protective coating against noise and oxidation. High quality ingredients will not harm plastic. An easy way to cure most tuner problems. Aerosol can.
No. 17A1300. 6 Oz. **99c** No. 17A1301. 16 Oz. **\$1.94**
(2) B-A Color Cleaner & Lubricant. Non-drift tuner cleaner developed for sensitive color tuners. Cleans and lubricates. Will not detune tuner—will not harm plastics.
No. 17A1302. 8 Oz. Spray Can **\$1.29**
(3) B-A Super Freeze Aid. For Thermal Intermittent Components. Just spray on circuit, to locate intermittent component while circuit is in operation. Freezes immediately and leaves no liquid residue. Saves valuable time.
No. 17A1303. 6 Oz. Spray Can **\$1.29**

TECH SPRAY TELEVISION SERVICE CHEMICALS



- (1) Blue Stuff for Tuners. Cleans continuously. Thick concentrated foam clings to contacts and cannot run off. Harmless to base metal contacts. For color, B & W, Hi-gain, Nuvistors.
No. 17A1390. 8 Oz. Spray Can **\$1.99**
(2) Blue Shower for Tuners. Powerful spray washes and degreases all tuners safely and quickly. Floods away dirt that causes tuner to drift. Harmless to plastics, non-toxic, can't detune. No residue.
No. 17A1391. 24 Oz. Spray Can **\$3.25**
(3) Blue Frost. Instant winter in a can. Colder and has a longer effect than other chilling sprays. Ultimate for troubleshooting intermittents.
No. 17A1392. 8 Oz. Spray Can **\$1.99** No. 17A1393. 20 Oz. Spray Can **\$3.24**
(4) Color Rid Ox Tuner Cleaner. Highest purity. Non-flammable. Will not harm plastics. Cleans and lubricates.
No. 17A1394. 8 Oz. Spray Can **\$1.98**
(5) Rid Arc. Finest red insulating spray. Provides protection against arcing and corona discharge. Dries rapidly to tough permanent film.
No. 17A1395. 8 Oz. Spray Can **\$1.59** No. 17A1396. 2 Oz. Bottle **.78c**



- (1) G-C Spra-Kleen. Just spray it on to clean and lubricate all electrical contacts, relay switches, controls and other moving parts.
No. 17A1321. 6 Oz. Spray Can **99c** No. 17A1323. 16 Oz. Spray Can **\$1.95**
(2) G-C Zero Mist. Locates trouble instantly. Spray electronic components in operation, cools instantly pin-pointing faulty components, cold solder and oxidized junctions, due to temperature variances. Saves valuable time.
No. 17A1322. CC8667. 16 Oz. Can **\$2.42**
(3) Audio-Video Magnetic Tape Head Cleaner. "Safe for all types of Recording heads." Quickly removes dirt and oxide build-up; won't harm tape, tape coating or paint finish. Will not interfere with transmission and may be used on running tape. 6" spray extension is furnished with each can for pin-point spray.
No. 17A1363. CC10-620. 16 Oz. Aerosol Can **\$2.35**
(4) "Quietrole". Stops noisy operation of switches, volume and tone controls without removal from chassis. Makes all moving parts quiet.
No. 17A1353. 2 Oz. **\$1.69**
(5) Slip-Stop. For Record Changers and Tape Recorder drives. Will restore the gripping surface of old and hardened phone drives and belts. Prevents slippage to insure uniform speed. Fast drying. Will not harm rubber. 2 oz. bottle with felt applicator.
No. 17A1304. Each **99c**

Order By Mail or Phone For Fast Efficient Service

SOLDER AND SOLDERING ACCESSORIES



KESTER "44" RESIN CORE SOLDER

Fast acting, instant wetting flux makes soldering faster and provides a stronger longer-lasting bond. 100% non-corrosive and electrically non-conductive. Immune to fungus growth and resists oxidation or organic decomposition.

Small Box for the occasional user. 40% Tin-60% Lead. 1/4" dia.
No. 17A7009, 1 Oz. Net Wt. Each 39c

40% TIN-60% LEAD, PRICES PER SPOOL

Stock No.	Spool Size	Diameter	1-9 Each	10 up Ea.	Each	2 or more Each
17A7045	1 lb.	3/32" (.093)	\$2.07	\$1.83		
17A7046	5 lb.	3/32" (.093)			\$10.10	\$8.95
17A7047	1 lb.	1/8" (.062)	2.16	1.91		
17A7048	5 lb.	1/8" (.062)			10.55	9.30
17A7049	1 lb.	1/16" (.031)	2.89	2.55		
17A7050	5 lb.	1/16" (.031)			12.75	11.25

50% TIN-50% LEAD, PRICES PER SPOOL

Stock No.	Spool Size	Diameter	1-9 Each	10 up Ea.	Each	2 or more Each
17A7051	1 lb.	3/32" (.093)	2.47	2.18		
17A7052	5 lb.	3/32" (.093)			12.05	10.65
17A7053	1 lb.	1/8" (.062)	2.55	2.25		
17A7054	5 lb.	1/8" (.062)			12.50	11.05
17A7055	1 lb.	1/16" (.031)	3.23	2.85		
17A7056	5 lb.	1/16" (.031)			14.45	12.75

60% TIN-40% LEAD, PRICES PER SPOOL

Stock No.	Spool Size	Diameter	1-9 Each	10 up Ea.	Each	2 or more Each
17A7057	1 lb.	3/32" (.093)	2.79	2.46		
17A7058	5 lb.	3/32" (.093)			13.50	11.95
17A7059	1 lb.	1/8" (.062)	2.87	2.54		
17A7060	5 lb.	1/8" (.062)			13.95	12.30
17A7061	1 lb.	1/16" (.031)	3.55	3.14		
17A7062	5 lb.	1/16" (.031)			16.05	14.20

63% TIN-37% LEAD, PRICES PER SPOOL

Stock No.	Spool Size	Diameter	1-9 Each	10 up Ea.	Each	2 or more Each
17A7071	1 lb.	3/32" (.093)	2.91	2.57		
17A7072	5 lb.	3/32" (.093)			14.10	12.45
17A7073	1 lb.	1/8" (.062)	2.99	2.64		
17A7074	5 lb.	1/8" (.062)			14.55	12.85
17A7075	1 lb.	1/16" (.031)	3.67	3.24		
17A7076	5 lb.	1/16" (.031)			16.65	14.70

No. 17A7020. Kester Soldering Paste. Each 29c 10 Each 22c

KESTER SILVER SOLDER FOR PRINTED CIRCUITS

Contains 3% silver, 61 1/2% tin, 35 1/2% lead with an .062 diameter.
No. 17A7023, 1 Lb. Spool. Net Each \$5.60

ERSIN MULTICORE SOLDER

Extra active, non-corrosive. 5 core construction assures flux continuity... prevents "dry" joints. Conforms to Govt. specs. QQS-571.

60% TIN-40% LEAD

KIT-PAK. Two solder gauges for the occasional user. 35c
No. 17A7026. Approx. 6' Each 89c
17A7066. P.C. Pak. 21 Ft. of 22 Gauge 89c
17A7027. Easy Dispenser Pak. 14 Ft. of 18 Gauge. Each 89c
17A7067. Serviceman's Pak. 40 Ft. of 19 Gauge \$1.00

40% TIN-60% LEAD ONE POUND SPOOLS

17A7077, 18 Ga. (.064) \$2.51
17A7078, 18 Ga. (.048) 2.54

50% TIN-50% LEAD ONE POUND SPOOLS

17A7028, 18 Ga. \$3.74 28 Spools, Ea. \$3.15
17A7029, 18 Ga. 3.81 28 Spools, Ea. 3.20
17A7063, 20 Ga. (.032") 4.11 28 Spools, Ea. 3.46
17A7064, 22 Ga. (.028") 4.42 28 Spools, Ea. 3.72
17A7065, 24 Ga. (.022") 6.32 28 Spools, Ea. 5.32

"SAVBIT" COPPER-LOADED ALLOY SOLDER

Does not absorb metal from copper tips, reduces wear and prolongs tip life ten-fold.
17A7030, 16 Ga. 1 Lb. Spool \$3.61 28 Lbs. Ea. \$3.00
17A7031, 18 Ga. 1 Lb. Spool 3.74 28 Lbs. Ea. 3.15
17A7079, 22 Ga. 1 lb. Spool 4.37 28 Lbs. Ea. 3.66

SODER-MASK

Solder Resist and Coating Mask. Protects contacts, holes and areas that must be kept free of solder during solder operation. Easy to apply with brush, applicator or syringe. Cures in 10 minutes at room temperature. Withstands temperatures of 500 to 550°F. Can be used on gold, nickel, silver, copper and tin nickel. Quickly removed by peeling or rubbing 4 oz. bottle with applicator nozzle

No. 17A7080. No. 84-4. Each \$2.49
10 Each \$1.99 50 up \$1.49
Water Soluble Soder-Mask. Easily and completely removed by washing with hot (140°-150°F) water. 4 oz. bottle
No. 17A7081. No. 75-4. Each \$2.49 10 Each \$1.99 50 up \$1.49
Chlorinated Solvent Soluble Soder-Mask. Apply by brush or dauber. Readily removed in normal degreasing operations
No. 17A7082. CHL-1 Pint Each Each \$5.10 12 Each \$4.75 36 Each \$4.40
No. 17A7083. CHL-1 Quart Each \$8.75 12 Each \$8.10 36 Each \$7.55
No. 17A7084. CHL-1 Gallon Each \$26.50 4 Each \$24.55 12 Each \$22.95
Thinner-C for chlorinated solvent soluble Soder-Mask.
No. 17A7085. Pint Each \$2.15 12 Each \$2.00 36 Each \$1.85
No. 17A7086. Quart Each \$3.50 12 Each \$3.25 36 Each \$3.00
No. 17A7087. Gallon Each \$10.75 4 Each \$10.00 12 Each \$9.25

HEAT SINK & SOLDER AID

The perfect heat sink—"clamps on" and holds wires in position while soldering. Retrieves small items in hard to reach places. Lightweight; aluminum 7" long.
No. 37A3005. Each \$1.50



Get Immediate Shipment From B-A's Large Stocks

WELLER MARKSMAN SOLDERING IRON



\$2.95

For hobby, kit, radio... all general purpose soldering. Small, only 8 1/4" long including tip. Has replaceable tip and stainless steel barrel. Develops up to 750° F. tip temperature. For use on 120 volt AC, 25 watts. With instruction booklet.

No. 37A3346. Model SP23. Each \$2.95
Marksman Soldering Iron Kit. Contains SP23 iron, 2 extra tips, solder and solder aid tool.
No. 37A3351. SP23K. Each \$4.40
No. 37A3362. MT-1 Replacement cone tip. Pkg. of 2 85c

WELLER PENCIL SOLDERING IRON



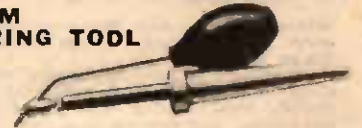
Ideal for miniature type soldering, kit building and production line work. Small and lightweight—hold it like a pencil. High efficiency—rapid recovery. Impact resistant plastic handle stays cool. Long life industrial grade tips. Net wt. of iron and tip 1 1/4 oz.

Model WP25—25 watt Professional iron. 1/8" screwdriver tip. 2 wire cord. 120 V. No. 37C269. \$5.15 Each \$4.65
Model WP40—40 watt Professional iron. 1/8" screwdriver tip. 2 wire cord. 120 V. No. 37A3363. \$6.15 Each \$5.55

REPLACEMENT TIPS FOR WP IRONS

No. 37A3057. ST1. 1/8" Screwdriver Tip. Each \$1.05
No. 37A3058. ST2. 3/32" Screwdriver Tip. Each \$1.05
No. 37A3059. ST3. 1/16" Screwdriver Tip. Each \$1.05
No. 37A3364. ST4. 1/8" Screwdriver Tip. Each \$1.05

WELLER VACUUM DESOLDERING/RESOLDERING TOOL



Invaluable repair tool. A must for servicing modern printed circuit boards and solid state electronics. Remove and replace components quickly, with less chance of heat damage. Complete tool includes power handle, vacuum bulb and desoldering head assembly with .063 tip opening. 40 W. 120 V. 2 wire cord.
No. 37A3355. Model DS40 \$11.40

REPLACEMENT TIPS FOR DS40 DESOLDERING TOOL

No. 37A3356. DST1—Desoldering tiplet. .038" Ea. \$1.05
No. 37A3357. DST2—Desoldering tiplet. .046" Ea. \$1.05
No. 37A3358. DST3—Desoldering tiplet. .059" Ea. \$1.05
No. 37A3359. DST4—Desoldering tiplet. .063" Ea. \$1.05
No. 37A3360. DST5—Desoldering tiplet. .078" Ea. \$1.05
No. 37A3361. DST6—Desoldering tiplet. .090" Ea. \$1.05

SENSATIONAL "SAL-MET" NON CORROSIVE FLUX

Makes a formerly impossible job easy. No special solder needed, no special preparation necessary. Just put a dab of "Sal-Met" on the spot to be soldered and proceed to solder in the usual manner using your favorite iron, gun, or torch. Results will be a positive electrical and mechanical connection.



SOLDER ALL METALS EASILY!

Used by Hughes Aircraft, Westinghouse, National Advisory Council for Aeronautics, Erie Resistor Corp. and many others. Handy one oz. tubes sufficient for hundreds of jobs.
No. 17A7008. Net Each \$1.39

X-ACTO SOLDER AID KIT

Knife, scraper, forked blade, angled tip, straight probe tip and brush.
No. 37A3272. Per Set \$2.99

GC SOLDER AIDS

Hex shaped Butyrate handles. Tools shed solder, Miniature size 5/8" long.

Fig.	Stk. No.	GC No.	Description	Each
①	37A3321	9069	Reamer & Scraper Tip	\$0.90
②	37A3322	9073	Brush & Forked Tip	.95
③	37A3323	9074	Brush & Scraper Tip	.95
④	37A3324	9076	Angle Reamer & Forked Tip	.90



Fig.	Stk. No.	GC No.	Description	Each
①	37A3325	9086	Standard Size 7 1/2" LONG Straight Reamer & Forked Tip	\$1.25
②	37A3193	9094	Fine Brush & Scraper Tip	\$1.25
③	37A3019	9088	Stiff Brush and Forked Tip	\$1.25
④	37A3018	9093	Angle Reamer & Forked Tip	\$1.25

SOLDERING AID AND SCRIBER

Perfect aids in repairing printed circuit boards, holding leads while soldering, stringing dial cords, removing parts from inaccessible places—1000 uses from one tool. Hardened steel scriber point for marking chassis, panels, etc.
① 37A3008. Combination Scriber and Hook—8 1/2" long. Net Each \$1.10
② 37A3009. Combination Scriber and Awl—8 1/2" long. Net Each \$1.10

Weller® AND WEN SOLDER GUNS

WELLER TEMPMATIC TEMPERATURE CONTROLLED SOLDERING TOOL



\$12³⁰
MODEL GT-7A

Fast heating trigger control. The powerhead contains Weller's own proven temperature control system to protect delicate components. Stainless steel long reach barrel. Convenient ejector makes switching powerheads easy. Weighs only 7 ozs. 150 watt AC. 2 wire cord.

GT-7A Controlled Temperature Solder Tool with 3/16" chisel point 700° F powerhead.
No. 37A3288. Each **\$12.30** 3 Lots **\$11.05** 12 Lots **\$9.85**
GT-6B Controlled Temperature Solder Tool with 1/8" conical point 600° F powerhead.
No. 37A3289. Each **\$12.30** 3 Lots **\$11.05** 12 Lots **\$9.85**
No. 37A3290. 7A Powerhead, 3/16" chisel point 700° F. Each **\$8.55**
No. 37A3291. 6B Powerhead, 1/8" conical point 600° F. Each **\$8.55**



WELLER DUAL HEAT SOLDERING KIT

\$10⁹⁵

INCLUDES: Gun, Brush, Soldering Aid, Solder, 3 Tips and Tip Wrench.

MAKES SOLDERING FASTER—EASIER

The hottest solder gun value ever offered! Here is true Weller professional performance and quality construction in a small, lightweight, exceptionally easy to handle solder gun. Perfect for hobbyist or serviceman—does a real man-sized soldering job. New improved gun, rated 100/140 watts furnishes soldering heat in just 5 seconds by a trigger control. Prefocused spotlight illuminates work as you solder. Dual heat feature provides reserve power for heavier soldering needs. Uses high efficiency long life tip. 120 volts 60 Hz AC. Fully guaranteed. Wt. 3 lbs.
37C257. 8200PK. Each **\$10.95**
3 Lots Each **\$8.95** 12 Lots Each **\$7.95**
No. 37A62. 8200 Gun Only. Each **\$8.30**

WELLER HEAVY-DUTY DUAL HEAT SOLDERING GUN KIT



FOR SERVICEMAN, HOMECRAFTER, HOBBYIST, EVERYONE!

B-A's LOW PRICE

\$15⁹⁵

- SOLDERS!
- MENDS!
- SEALS! CUTS!

Accomplishes scores of money-saving jobs. Handy to have for ready use in the shop, at home, out on the job, anywhere.

Comes complete with the very popular Weller heavy-duty dual heat 240/325 watt soldering gun that has such desirable features as: Instant heating—takes only 5 seconds to obtain solder heat; Extra long reach to get into the deep inaccessible places; Dual spotlights to focus on work; Rugged housing that stays cool. Dual heat feature provides reserve power for extra heavy jobs. Includes 3 handy tips; Long-life soldering tip; Smoothing tip for heat-sealing, and mending plastic articles; Cutting tip for cutting plastic tiles, removing hard putty from broken windows, etc.; tip changing wrench and all purpose solder. Instruction booklet gives helpful hints—tells how to do various jobs. Unbreakable plastic case is convenient for storage and has handle for easy carrying. Shpg. wt. 6 1/2 lbs.
37C256. D-550PK. Net Each **\$15.95**
3 Lots Each **\$13.45** 12 Lots Each **\$11.95**

WELLER DUAL HEAT GUNS

No.	Model	Watts	Shpg. Wt.	Each	3 Lots	12 Lots
37B4	D-550	240/325	4 Lbs.	\$12.30	\$11.05	\$9.85
37A237	D-440	145/210	3 Lbs.	11.45	10.30	9.15

REPLACEMENT SWITCH for all Weller Dual Heat Solder Guns
No. 37A3286. Type 7324. Net Each **\$1.20**

SOLDERING GUN HOLSTER for all Weller Guns
No. 37A3347. Type AC100. Net Each **\$1.69**

WELLER SOLDERING TIPS

No.	Type	For Gun Models	Pkg. of 2
37A3176	7250	WS-200, WD-250, S-500, D-550, 8250A	79c
37A3177	7135	WD-135, S-400, D-440, 8100, 8200	79c
37A3178	7300	S-107, D-207	79c
37A3179	8125	8200, 8100B	79c

WELLER HOBBY & HOMECRAFTER TIPS

For cutting plastic tile; fixing home appliances and wiring; heat-sealing home-freezer packages; model railroads, regrooving tires, removing putty, etc. All are supplied with Tip nuts.
Smoothing Type Cutting Type For Gun Models Each
37A3180 37A3182 WD-250, S-500, D-550, 8250A 79c
37A3181 37A3183 WD-135, 8200, D-440, Jr., 8100B 79c

WEN

SOLDERING GUNS AND KITS

All have Wen's exclusive thermal regulation for efficient range of heat power. Instant heat. Change tips to change heat ranges. Beautifully balanced. Pre-focused spotlight. UL & CSA listed. All for 110-120 VAC.

450k4. 25 to 450 watt soldering kit. Full range of heat power. Includes 25-100 watt fine tip, 100-200 watt medium tip, 200-450 heavy duty tip and roll of solder. Shpg. Wt. 3 lbs.
No. 37A3312. 450k4 Kit. Each **\$12.95**
No. 37A3313. 450 Gun only with 200 to 450 watt tip. Each **\$10.99**

222k5. 25 to 200 watt soldering kit. Includes 25-100 watt fine tip, 100-200 watt medium tip plus cutting tip, smoothing tips, and roll of solder. All in an attractive molded case. Shpg. wt. 3 lbs.
No. 37A3314. 222k5. Solder Kit. Each **\$9.95**
No. 37A3315. 222 Gun only with 100-200 medium tip. Each **\$6.99**

75 Soldering Pistol. Space age metal makes 50 watts do the work of 100 watt units. Does work normally done by soldering pencils, long reach tip. Shpg. Wt. 3 lbs.
No. 37B214. 75 Pistol with standard tip. Each **\$4.95**



WEN 199 SOLDERING GUN 130 WATTS



ONLY **\$6⁹⁵**

Heats in just 2 1/2 seconds. Cools when trigger is released. Small — fits tool kit or pocket. Light—easy to handle, less tiresome to use. 3 1/4" extra long, narrow tip for tight spots. Built-in spotlight. Plastic handle and case are heat and shock resistant. 115 volts. 60 Hz AC. Wt. 2 1/2 lbs.
No. 37A329. Each **\$6.95**

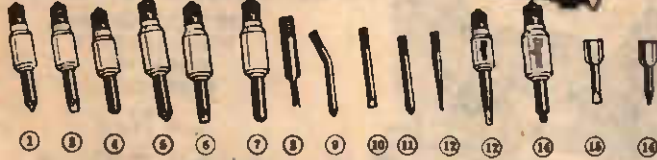
WEN REPLACEMENT TIPS

Stk. No.	Description	Tip No.	For Gun Model	Each
37A3174	Standard	75A7	75	\$1.10
37A3175	Fine Point	75B7	75	1.10
37A3316	Light Duty	45F7	222, 450	1.40
37A3317	Medium Duty	45M7	222, 450	1.40
37A3318	Heavy Duty	45A7	450	1.40
37A3319	Smoothing	45P57	222, 450	.70
37A3320	Cutting	45S7	222, 450	.70
37A3168	Long Reach	19B4	199, 100	.60
37A3169	Standard	25A4	250	.35
37A3170	Long Life	25X20	250	.60
37A3171	Plastic Tile Cutting	19C1	199, 100	.70
37A3172	Standard	28C4	288	.70
37A3173	Flat Iron Tip	19F33	288, 199, 100	.70



PRECISION SOLDERING IRONS

UNGAR STANDARD SOLDERING PENCIL & TIPS



1 UNGAR MODEL 776 HANDLE
 "Insul-cool handle" ruggedized for production line soldering. Features stainless steel deflector for low handle temperature, ceramic and glass insulation for longer life, tough phenolic for added durability and extra heavy, extra flexible 6 ft. 18 gauge polyvinyl cord. Cork finger-grip, red colored handle. Accommodates all elements and tips below.
37A3066. Type 776 (Less Element and Tip). Each.....\$2.07 10 Lots, Each.....\$1.70 50 Lots, Each.....\$1.55
 ① New "Clean Room" Handle. Heat stabilized polypropylene grip with air-flow cooling keeps handle cool to the touch all day long. Octagon shaped non-slip poly-grip won't collect dust or deteriorate. Efficient, perfectly balanced. Supplied in attractive easy-on-the-eye blue pastel color. Other features same as Type 776 above.
No. 37A3067. Type 777 (Less Element and Tip). Each.....\$2.07 10 Lots, Each.....\$1.70 50 Lots, Each.....\$1.55

TIPS WITH SELF-CONTAINED ELEMENTS

500 STANDARD SERIES—23½ WATTS

For instrument repair and general use. Tellurium Copper Tip.

Stk. No.	Fig.	Type	Tip	Size	Temp.°F.	Each	10 Ea.	50 Ea.
37A3068	(13)	533	Chisel	1/8" Lx 3/8" W	700	\$1.78	\$1.47	\$1.33
37A3069	(2)	536	Pyramid	1/8" Lx 3/8" dia.	700	1.78	1.47	1.33
37A3070	(3)	539	Chisel	1/8" Lx 3/8" W	700	1.78	1.47	1.33

1200 HI-HEAT SERIES—37½ WATTS

For general service and light to medium production line service. Tellurium Copper Tip.

Stk. No.	Fig.	Type	Tip	Size	Temp.°F.	Each	10 Ea.	50 Ea.
37A3071	(13)	1233	Chisel	1/8" Lx 1/4" W	800	\$2.58	\$2.12	\$1.94
37A3072	(5)	1236*	Pyramid	1/8" Lx 3/8" dia.	800	2.58	2.12	1.94
37A3073	(6)	1239*	Chisel	1/8" Lx 3/8" W	800	2.58	2.12	1.94

4000 SUPER HI-HEAT SERIES—47½ WATTS

For all operations formerly requiring a 150 watt iron. Tellurium Copper Tip, iron clad, silver plated.

Stk. No.	Fig.	Type	Tip	Size	Temp.°F.	Each	10 Ea.	50 Ea.
37A3074	(13)	4033	Chisel	1/8" Lx 1/4" W	1000	\$3.75	\$3.08	\$2.81
37A3075	(5)	4036	Pyramid	1/8" Lx 3/8" dia.	1000	3.75	3.08	2.81
37A3076	(6)	4039	Hvy. Chl.	1/8" Lx 3/8" W	1000	3.75	3.08	2.81

HEATING UNITS ONLY

NEW THREAD ON HEATING UNITS Use with thread on Mini-tips below.

Stk. No.	Fig.	Type	Wattage	Temp. to Tip	Each	10 Ea.	50 Ea.
37A3077	(14)	4037	50	850°	\$3.75	\$3.08	\$2.81
37A3078	(14)	1237	42	750°	2.58	2.12	1.94

THREAD-IN HEATING UNITS

Use with Series 300 Copper and Iron Clad Tiptets listed below.

Stk. No.	Fig.	Type	Wattage	Temp. to Tip	Each	10 Ea.	50 Ea.
37A3079	(14)	535	27	650°	\$1.78	\$1.47	\$1.33
37A3080	(7)	1235	42	750°	2.58	2.12	1.94
37A3081	(7)	4035	50	850°	3.75	3.08	2.81

Hi-heat thread-in unit for use with Series 800 Tiptets.

37A3082	(7)	4045	50	850°	\$3.75	\$3.08	\$2.81
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NEW THREAD ON MINI-TIPS FOR 4037 & 1237 HEATING UNITS

Stk. No.	Fig.	Type	Description	Each	10 Ea.	50 Ea.
37A3083	(16)	PL11*	3/4" Long 1/8" Pencil	\$0.95	\$0.78	\$0.71
37A3084	(16)	111	3/4" Long 3/8" Pencil	.48	.40	.36
37A3085	(15)	PL113*	3/4" Long 1/8" Chisel	.95	.78	.71
37A3086	(15)	113	3/4" Long 3/8" Chisel	.48	.40	.36

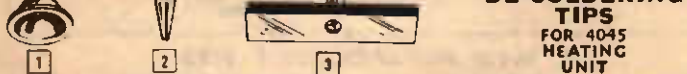
NO. 300 TIPTETS FOR 535, 1235, 4035 HEATING UNITS

Stk. No.	Fig.	Type	Description	Each	10 Ea.	50 Ea.
37A3087	(11)	PL331*	1 x 1/8" Pencil Tiptet	\$0.73	\$0.60	\$0.55
37A3088	(11)	331	1 x 1/8" Pencil Tiptet	.30	.25	.23
37A3089	(9)	PL332*	1 x 1/8" Offset Pencil Tiptet	.73	.60	.55
37A3090	(9)	332	1 x 1/8" Pencil, 30° Offset	.30	.25	.23
37A3091	(10)	PL333*	1 x 1/8" Chisel Tiptet	.73	.60	.55
37A3092	(10)	333	1 x 1/8" Chisel Tiptet	.30	.25	.23
37A3093	(12)	PL338*	1 3/4" Tapered Needle	.73	.60	.55
37A3094	(8)	PL340*	Micro-Needle	.73	.60	.55

EXTRA LONG TIPTETS (Designed for use with 4045 heating unit only)

Stk. No.	Fig.	Type	Description	Each	10 Ea.	50 Ea.
37A3095	(11)	PL823*	1/2" Pyramid	\$0.84	\$0.69	\$0.62
37A3096	(11)	823	1/2" Pyramid	.35	.29	.26
37A3097	(10)	PL824*	Straight 1 x 3/8" Chisel	.84	.69	.62
37A3098	(10)	824	Straight 1 x 3/8" Chisel	.35	.29	.26
37A3099	(10)	PL833*	Straight 1 3/4" x 3/8" Chisel	1.19	.97	.89
37A3100	(9)	PL834*	45° Offset 1 3/4" x 3/8" Chisel	1.19	.97	.89

DE-SOLDERING TIPS



Specialty shaped tips makes easy removal of parts from P.C. boards. Fits 4045 heating unit only.

Fig.	Stk. No.	Type	Description	Each	10 Each	50 Each
①	37A3060	856	5/8" Cup	\$1.00	\$0.82	\$0.75
②	37A3061	857	1" x 1/2" Slotted Tip	1.00	.82	.75
③	37A3062	858	Bar 1 1/2" x 3/8"	1.00	.82	.75

#400 KLEEN-TIP

Doubles life of soldering tips with new tip cleaner. Phenolic tray, specially processed sponge and bottom adhesive strips for firm mounting to work bench.
No. 37A3102. Ea.....\$1.35 10 Ea.....\$1.10 50 Ea.....\$1.00
No. 455 Refill Sponge for above. Ea.....53c 10 Ea.....44c 50 Ea.....40c

UNGAR "PRINCESS" MINIATURE SOLDERING PENCIL & TIPS



Designed to meet the newest, most exacting requirements for precision hand soldering in Microelectronic circuitry, high density packaging and assembly. Combines sophisticated miniaturization with a thermo efficiency and work capacity never before achieved in small, high-heat, feather-weight irons.

1 PRINCESS FEATHERWEIGHT HANDLE

Molded of heat resistant A.B.S. Has midjet thread-in socket to accept heat capsules below. Weight without cord .05 oz., with cord 3 oz. 5" long x 3/16" dia. at front. Turquoise color. 120 V. AC/DC.
No. 37A3104. Type 6902. 2-Wire Cord. Ea. \$4.18 10 Ea. \$3.63 50 Ea. \$3.21
No. 37A3105. Type 6903. 3-Wire Cord. Ea. \$5.68 10 Ea. \$5.01 50 Ea. \$4.37

2 INTERCHANGEABLE HEAT CARTRIDGES

Thread into Princess handles with fingertip ease. Heating section is threaded to accept nibs below. You can also use Series 300 Tips on opposite page.

Stk. No.	Type	Wattage	Temp. to Tip	Each	10 Each	50 Each
37A3107	6910	10	550° to 650°	\$5.11	\$4.44	\$3.93
37A3108	6915	15	700° to 800°	5.11	4.44	3.93
37A3109	6918	18	900° to 1000°	5.11	4.44	3.93

INTERCHANGEABLE THREAD-IN NIBS (TIPS)

All are cadmium copper except those marked * which are iron clad, 24 K gold plated. All are 1/16" dia. threads.

Stk. No.	Fig.	Type	Description	Each	10 Each	50 Each
37A3110	②	6950	.61" Long Pencil	\$0.45	\$0.39	\$0.35
37A3111	③	6951	.68" Long Screwdriver	.45	.39	.35
37A3112	④	6952	.61" Long Spade	.45	.39	.35
37A3113	⑤	6953	.61" Long Point	.85	.73	.65
37A3114	⑥	6960*	.61" Long Pencil	.80	.69	.61
37A3115	⑦	6961*	.68" Long Screwdriver	.80	.69	.61
37A3116	⑧	6962*	.61" Long Spade	.80	.69	.61
37A3117	⑨	6963*	.61" Long Point	1.55	1.34	1.19

PRINCESS 10 WATT SOLDERING IRON KIT

Complete 10 watt kit in handy attractive package. Consists of #6902 Handle and Cord, 6910 Heat Capsule and three tiptets, 6950 Pencil, 6951 Screwdriver, and 6952 Spade. Ideal tool for P.C. boards and micro-circuits.
No. 37A3065. Model 6975. \$10.21 10 Each \$8.88

PRINCESS SOLDERING IRON HOLDER

Equipped with specially processed slit sponge for tip cleaning. Plastic base with swivel mounted metal cage. Wt. 3 oz.
No. 37A3118. Type 6990. Each \$4.03
10 \$3.50 50 \$3.10
Each \$3.50 50 Each \$3.10
 Refill Sponge, Type 6991.
No. 37A3119. Each 60c
10 Each 52c 50 Each 46c



PRINCESS DE-SOLDERING TIPS

Fig.	Stk. No.	Type	Description	Each	10 Ea.	50 Ea.
①	37A3307	6940	Flat Pack IC-Hook	\$2.55	\$2.21	\$1.96
②	37A3308	6941	Flat Pack IC-Bar	2.37	2.06	1.82
③	37A3309	6948	DIP IC	2.76	2.40	2.12
④	37A3310	6943	TO Package .600" Dia.	2.41	2.10	1.85
⑤	37A3306	6944	TO Package .500" Dia.	2.41	2.10	1.85
⑥	37A3303	6945	TO Package .375" Dia.	2.41	2.10	1.85
⑦	37A3311	6946	TO Package .280" Dia.	2.41	2.10	1.85
⑧	37A3304	6947	Slotted Lead Straightener	2.03	1.76	1.56

PRINCESS 6939 DE-SOLDER KIT

Contains Princess handle, 3 wire cord, 15 watt heat capsule and 6945, 6947 and 6948 tips. Ideally suited for PC boards 1/2" and under.
No. 37A3309. \$16.50 4 \$14.34 12 \$12.69
Each \$16.50 4 \$14.34 12 \$12.69

UNGAR 3-WIRE SOLDERING IRONS

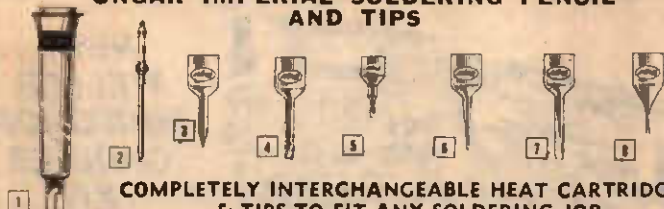


For use on Mosfet and IC Devices-meets all military and NASA standards - light weight with cool phenolic handle, flexible cord and NEMA plug. Element and cords field replaceable. Standard 100 series tips shown above left thread directly on the iron. 1/8 & 3/16" adaptors supplied to use any standard 300 or 800 series or Princess tip shown above. Operates on 110 VAC. Tip Not Included.

Stock	No.	Type	Wattage	Tip Temperature	Each	10-	50 &
	37A3368	127	27	650°F to 750°F	\$5.59	49 Ea.	\$4.44
	37A3369	135	35	750°F to 850°F	5.59	4.95	4.44
	37A3370	145	45	900°F to 1000°F	5.59	4.95	4.44
	No. 37A3371. No. 7825 De-soldering Unit. Used with #145 iron. .057 orifice de-soldering tip included.				9.95	8.50	7.75
	37A3300	7812	.033	Orifice De-Soldering Tip	1.30	1.06	.96
	37A3122	7806	.057	Orifice De-Soldering Tip	.92	.75	.70

PRECISION SOLDERING IRONS

UNGAR IMPERIAL SOLDERING PENCIL AND TIPS



COMPLETELY INTERCHANGEABLE HEAT CARTRIDGES & TIPS TO FIT ANY SOLDERING JOB

Satisfies every demand for a cool, lightweight, easy-handling soldering iron. Engineered to get jobs done faster, better, more economically. Built to provide years of dependable operation. Complete unit weighs less than 5 ounces.

① IMPERIAL "PERMA-COOL" HANDLE

Introduces a completely new heat sink principle... double cushion of air, combined with five heat transition surfaces evenly dissipates heat, keeps handle cool and comfortable all day long. Durably built of Lexan high strength polycarbonate resin with built-in die-cast aluminum heat sink. Length 4.7". Turquoise color. (Handle only, less Cord).

No. 37A3131. Type 6100. Ea. \$1.90 10 @ Ea. \$1.54 100 @ Ea. \$1.42

INTERCHANGEABLE PLUG & CORD SETS

Select the cord that fits your needs, plug on to Perma-Cool Handle. 4 1/2 ft. 18 gauge flexible stranded wire, polyvinyl chloride insulation on both wire and female connector. Turquoise color.

Stk. No.	Type	Description	Each	10 Ea.	100 Ea.
37A3132	6102	2-Wire cord W/Plug	\$2.76	\$2.24	\$2.07
37A3133	6103	3-Wire Nema Cord W/Plug	4.06	3.29	3.05

② INTERCHANGEABLE HEAT CARTRIDGES

New element winding principle provides reduced watt density, insures longer life. Heating element at tip end of cartridge results in less heat to handle, more heat to tip. Stainless steel, completely sealed—eliminates costly breakage. Threaded-end is engineered to resist oxidation, reduce heat waste, providing maximum heat transfer. Slim, tubular design offers easy access to hard-to-reach areas. Extends 2.5" beyond handle. 110-120 volts. AC-DC. Each cartridge (except 15-watt) has color-keyed band for instant wattage identification. 6200 has red band, 6201 blue band, 6202 green band, 6203 yellow band.

Stk. No.	Type	Wattage	Temp. To Tip	Each	10 Ea.	100 Ea.
37A3134	†6203	55	1150°	\$6.03	\$4.89	\$4.52
37A3135	6200	45	950°	5.11	4.13	3.83
37A3136	6201	35	850°	5.11	4.13	3.83
37A3137	6202	25	800°	5.11	4.13	3.83

†Use only iron clad tips.

INTERCHANGEABLE THREAD-ON "MINI-TIPS"

All are of Tellurium Copper except those marked * which are iron clad, 24 K. gold plated. For use with 25, 35, 45 and 65 watt heat cartridges.

Stk. No.	Fig.	Type	Description	Each	10 Ea.	100 Ea.
37A3143	①	6312	3/4" long, 1/8" pencil	\$0.58	\$0.47	\$0.44
37A3144	②	6313*	3/4" long, 1/8" pencil	1.33	1.08	1.00
37A3145	③	6318	3/4" long, 1/8" taper-chisel	.58	.47	.44
37A3146	④	6319*	3/4" long, 1/8" taper chisel	1.33	1.08	1.00
37A3147	⑤	6324	3/4" long, 1/8" taper pyramid	.58	.47	.44
37A3148	⑥	6333*	3/4" long, 1/8" needle	1.33	1.08	1.00
37A3149	⑦	6304*	1/2" long, 3/16" micro-chisel	1.33	1.08	1.00
37A3150	⑧	6305*	1/2" long, 3/16" micro-spade	1.33	1.08	1.00
37A3151	⑨	6325*	3/4" long, 1/8" taper pyramid	1.33	1.08	1.00
37A3152	⑩	6331*	3/4" long, 1/8" screwdriver	1.33	1.08	1.00
37A3153	⑪	6481*	3/4" long, 3/16" taper screwdriver	1.33	1.08	1.00

UNGAR SOLDERING IRON HOLDER

Safety guard design protects operator from accidental burns, protects iron against breakage. Keeps iron cradled safely and securely—ready for easy, instant use. Angle of cradle adjustable for operator's convenience. Attaches to top, side, or underside of workbench. Shpg. wt. 1 lb.

No. 37A3101. 8000 For Standard Ungar
Each...\$2.35 10 Ea...\$1.90 50 Ea...\$1.76
No. 37A3302. 6800 For Imperial.
Each...\$2.35 10 Ea...\$1.90 50 Ea...\$1.76

UNGAR 6760 SOLID STATE SOLDER GUN

Dual heat. Hi-Lo switch in handle selects 500°F or 900°F Temperature. Lightweight... less than 5 oz. without cord set. Solid state components replace heavy transformer. Electrically isolated tip safe for soldering IC's and FET's. Solders in seconds. Complete with short chisel tip.



Stk. No.	Mfg. No.	Description	1-3 Ea.	4-11 Ea.	12 Up Ea.
37A3292	6760	Gun Complete	\$10.95	\$9.95	\$8.95
37A3293	6763	Handle and Cord Set	7.12	6.26	5.73
37A3294	6751	Heat Cartridge	5.61	5.02	4.49
37A3295	6755	Long Chisel Tip	.43	.39	.37
37A3296	6753	Short Chisel Tip	.43	.39	.37
37A3297	6754	Pyramid Tip	.43	.39	.37



"AMERICAN BEAUTY" IRONS

Exceptionally dependable irons widely used by industrial and servicemen for continuous duty work with copper tips. All are supplied with 6 ft. cord.

Stk. No.	Model	Heat	Lgth.	Tip	Wt.	Net Each
① 37A3123	3118SCP	30-Watt	8"	1/8"	6 Oz.	\$8.32
② 37A3124	3128	60-Watt	12 1/4"	1/4"	7 1/2 Oz.	9.28
③ 37A3125	3138	100-Watt	12 1/2"	3/8"	16 Oz.	13.12
④ 37A3126	3158	200-Watt	13 3/8"	5/8"	28 Oz.	16.24

REPLACEMENT NICKEL PLATED TIPS FOR ABOVE

37A3127. For 3118SCP. Each.....	44¢	37A3129. For 3138. Each.....	92¢
37A3128. For 3128. Each.....	60¢	37A3130. For 3158. Each.....	\$2.80

POCKET BLOW TORCH & SOLDERING KIT



Provides high heat (3500 degrees) pin point flame sufficient for soldering, brazing, softening paint and putty, fixing leaks plus numerous other uses. Uses Butane "throw-away" gas cartridges similar to those used in cigarette lighters. Kit includes compact size 7" torch with soldering tip, all purpose solder and three butane gas cartridges. Soldering tip slips over torch head to provide portable iron for those outdoor or away from bench soldering jobs. In handy plastic carrying case. Shpg. wt. 1 lb.

No. 37A3233. Kit Each..... \$3.95
No. 37A3234. Extra Cartridge. Box of 4..... \$1.49

UNIQUE "SOLDER SIPPER"

REMOVES SOLDER FROM ELECTRICAL TERMINALS

For Safe, Easy Removal of Components. Just heat soldered connection and amazing Solder Sipper "sucks-up" molten solder. Heat can be pin-pointed and solder removed one terminal at a time. Prevents overheating and subsequent damage to transistors, diodes and other heat sensitive components. Ideal for working with printed circuit boards, glass epoxy resin boards, any material that becomes soft and weak when heated. Rubber pressure bulb with Teflon Tube. Tube cleaning wire included. Wt. 8 oz.

No. 37A3006. \$1.49 10 Lots \$1.39
Each



UNGAR No. 270 DE-SOLDERING KIT

Tedious printed circuit repairs now made easily and safely. Includes Ungar handle, super heat 47 1/2 watt unit, slotted tiplet, and rectangular de-soldering tiplet 1 1/2 x 3/8" for removing resistors and capacitors, or other components within this size. De-soldering tiplets 1", 3/4" and 3/8" diameter for removing 9, 7, and 5 pin tube socket. All in metal case. Wt. 1 lb.

37A3120. 1-5 Ea. \$9.50
6-11 Ea. \$7.80 12 Up Ea. \$7.12



"HOT-VAC" PRINTED CIRCUIT DE-SOLDERING & CLEANING TOOL

Provides fast, safe de-soldering for easy removal of components and parts. Just place heating tip to soldered connection, press-release bulb, and Hot-Vac "sucks-up" molten solder. Heat can be pin-pointed and solder removed one terminal at a time. Prevents overheating of transistors, diodes, etc. Special coating prevents solder from adhering to tip, or clogging orifice. Utilizes new #777 "Clean Room" handle. Shpg. Wt. 1 lb.

No. 37A3121. Type 7800. \$14.25 6. \$11.71
Each

Stk. No.	Type	REPLACEMENT TIPS		10-49 Ea.	50 Up
		Hole Dia.	1-9 Ea.		
37A3122	7806	.057	\$0.92	\$0.75	\$0.70
37A3300	7812	.033	1.30	1.06	.96
37A3301	7813	.069	.90	.74	.69

12 Up Each \$10.68



PRINCESS SOLDERING CUP

Specifically designed for tinning micro-miniature leads and components... ideal for de-soldering too! Adjustable, thermostatically controlled temperatures—400° to 750° F. Uses standard Ungar No. 4037 long life heating unit. Corrosion-proof bronze melt cup. Built-in dross ring-machine finish. Minimal external heat radiation. Rugged die-cast construction. Solder capacity 1 oz. Cup depth 3/8". 3-wire cord, 120 volts AC-DC. Wt. 1 1/4 lbs.

No. 37A3298. \$11.25
7000. 1-5 Ea. \$9.65 12 \$8.50
Each



UNGAR EXTRACTORS

Instant release... prevents board damage. Eliminates damaged leads, circuit destruction, burned fingers. Push-button simplicity that works reliably... time after time.

No. 37A3299. 6982. DIP IC Extractor. 1-9 Each... \$2.21
10-49 Each \$1.92 50 up Each \$1.70
No. 37A3345. 6983. TO-5 Transistor and IC Extractor.
1-9 Each \$2.55 10-49 Each \$2.29 50 up Each \$1.98



UNGAR 8001 ANTI-SEIZE

Reduces tip thread seizure. Improves heat transfer.
No. 17A7040.
1/2 Oz. Tube

90¢

183

ELECTRIC POWER TOOLS AND ACCESSORIES

WELLER AUTOMATIC GLUE GUN KIT

THE 30 SECOND GLUE... NO MORE CLAMPING OR WAITING!

\$10⁹⁵



There's no end to the things you can fix and do. The glue sets by cooling—instead of drying—in about 20 seconds. With a firm bond in just 30 seconds. Just draw a bead of hot glue, and press together. Repair jobs, "fixit" jobs, even caulking jobs. Features rapid heat up, indicator and wire light, automatic glue feed, drip proof with automatic flow control. The more you use it, the more uses you'll find. It gives a fast, strong, flexible, water-proof bond on wood, glass, plastics, porcelain, pottery, ivory, linoleum, fiberglass, even concrete.

Model 2400K Includes Glue Gun, 7 Weller Glue Sticks, Reversible storage tray, 7 Weller Caulk Sticks, Carrying case, Portable Bench Stand and Instruction booklet. Shp. wt. 3 lbs.

No. 37A5582. 2400K Each **\$10.95**
 No. 37A583. AC400. Pkg. of 20 Glue Sticks **\$1.20**
 No. 37A592. AC401. Pkg. of 60 Glue Sticks **\$2.59**
 No. 37A584. AC402. Pkg. of 20 Caulking Sticks **\$1.20**
 No. 37A593. AC403. Pkg. of 60 Caulking Sticks **\$2.59**

PORTABLE VACUUM VISE

HANDY ADDITION TO ANY WORKSHOP!

\$6⁹⁵



Vacuum Power will hold vise firmly on any non-porous surface. Turn handle to hold vise, turn handle to release. 360° swivel head with both 1½" and 2½" jaws. Handy for holding material for shaping or sharpening. Precision crafted in Japan. Wt. 5 lbs.
 No. 37A5549. Each **\$6.95**

SOLIDOX REVOLUTIONARY SOLID OXYGEN WELDING TORCH

EASY, NEW WAY TO WELD!

SOLIDOX WILL PAY FOR ITSELF IN SAVINGS... REPAIR BROKEN ITEMS YOURSELF

\$39⁹⁵

TAKES ONLY MINUTES TO LEARN!



5000° flame cuts ½" rods, welds, brazes, silver solders with professional results. Torch weighs only 7 pounds, easy to use in hard-to-reach corners. Burns amazing Solidox oxygen pellets, and uses standard 14 oz. propane cylinder. Ideal for auto, shop, farm and garden tool maintenance. Simple, safe.

Kit contains torch, propane and valve, 2 tips with Solidox pellets for approx. 75 minutes burning time, assorted brazing rods, spark lighter, protective glasses. With full instructions and welding techniques booklet. Shpg. wt. 11 lbs.

No. 37A9118. Kit Each **\$39.95**
 No. 37A9593. A109 Solidox Pellets for large tip, approximately 75 minutes burning time. Wt. 2 lbs. Pkg. Each **\$2.50**
 No. 37A9594. A117 Solidox Pellets for small tip, approximately 90 minutes burning time. Wt. 2 lbs. Pkg. Each **\$2.95**



NEW!
WELLER MINI-SHOP GRINDER KIT

\$29⁹⁵

Small and easy to handle, powered by a 25,000 RPM, 115 volt, .75 amp universal motor. The Mini-Shop is ideal for handyman, hobbyist and professionals... perfect for delicate work and hard-to-reach places. Mini-Shop grinds, shapes, sharpens, drills, polishes, routs, cleans, saws, sands and cuts. 38 piece kit contains power unit, 32 bits, polishing compounds, instruction book and accessory caddy in a handy flip-top case. Shpg. wt. 3 lbs.

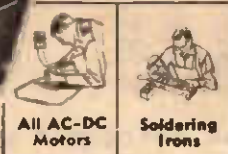
No. 37A9117. Model 600K. Each **\$29.95**

WELLER GRINDER ACCESSORIES

Stock No.	Weller No.	Description	Each	Stock No.	Weller No.	Description	Each
37A9600	GM67	Mandrel	\$0.89	37A9616	GB152	Abrasive Band	\$0.89
37A9601	GB149	Brush	.89	37A9617	GB153	Abrasive Band	.89
37A9602	GW118	Stone Drum	.89	37A9618	GB154	Abrasive Band	.89
37A9603	GP87	Mounted Point	.89	37A9619	GD12	Drill	.89
37A9604	GP84	Stone Nose	.89	37A9620	GW115	Stone Cylinder	.89
37A9605	GW112	Stone Drum	.89	37A9621	GP66	Disc	.89
37A9606	GB151	Brush	.89	37A9622	GW117	Wrench	.89
37A9607	GP65	Stone Cone	.89	37A9623	GD9	Sanding Disc	.89
37A9608	GB148	Brush	.89	37A9624	GD10	Sanding Disc	.89
37A9609	GB150	Wire Brush	.89	37A9625	GW106	Cut Off Wheel	.89
37A9610	GW113	Stone Disc	.89	37A9626	GC239	Saw	1.79
37A9611	GW109	Felt Wheel	.89	37A9627	GC238	Cutter Cylinder	1.79
37A9612	GW107	Rubber Wheel	.89	37A9628	GC245	Cutter Ball	1.79
37A9613	GW108	Cotton Wheel	.89	37A9629	GC247	Cutter Cone	1.79
37A9614	GS248	Dressing Stone	.89	37A9630	GW118	Metal Saw	1.79
37A9615	GD13	Drum	.89				

MOTOR SPEED CONTROL

JUST PLUG IT IN AND ADJUST SPEED **\$12⁹⁵** 5 AMP



CONTINUOUSLY VARIES SPEED OF ANY AC-DC MOTOR FROM ZERO RPM TO FULL SPEED WITHOUT LOSS IN POWER

Electric tool operations are faster, surer, more precise with this amazing new device. Just "dial" the proper speed for the job, from 0 RPM to full speed. Allows slow speed to start holes when drilling or sawing. Easily saves its cost in drill bits and saw blades alone.

For use on Universal AC-DC or series DC motors. Unbreakable all metal housing size 2¼" D. x 2¾" W. x 3¾" H. Clip on back for use on belt or hanging on wall. On-off switch. 6 ft. 3-cond. cord. Operates from 120 volts AC. Shpg. wt. 2 lbs.

No. 37B28. For Up To 5 Amp Loads. Each **\$12.95**
 No. 37A9098. For Up To 10 Amp Loads. Each **\$19.88**

NEW BVI ELECTRIC PAINT SPRAYER

\$16⁹⁵



A totally new airless paint sprayer to take the drudgery out of home painting jobs. Paints faster and easier than brush or roller. Will spray just about all types of paint, oil or latex. Also may be used to spray garden insecticides. Heavy 6 ft. cord, 24 oz. jar, 115 V. AC. Shpg. wt. 4 lbs.

No. 37A9096. Model 860 **\$16.95**
 Net Each



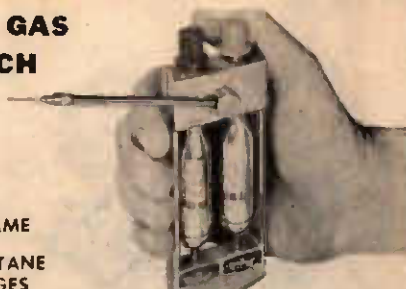
MOTO-TOOLS, BVI MARKING TOOLS

"MICROFLAME" GAS WELDING TORCH

\$17.95

WELDS, BRAZES, SOLDERS WITH 5000° PRECISION FLAME

USES MICRONOX AND BUTANE THROW-AWAY CARTRIDGES



A completely self-contained gas welding torch that fits in the palm of your hand and produces 5000° F. pin-point accurate flame. Welds, brazes, solders—hundreds of uses in the shop, jewelry repair, dental labs, tool and model making... ideal for silver soldering and printed circuit repair—anywhere precision high heat is required. Easy to operate. Complete with torch, 2 tip sizes, 1 compressed butane and 2 micronox cartridges. Shpg. wt. 1 lb. No. 37B25. Each **\$17.95**
37B33. Butane Cartridge. Ea. 57¢ 37B26. Micronox Cartridge. Ea. 70¢

BURGESS VIBROGRAFTER MARKING AND ENGRAVING TOOLS



Heavy duty for continuous operation. Comfortable hand-rest design. Delivers 7200 strokes per minute for fast, clean work. Control wheel adjusts "impact" for fine, medium or coarse stroke. Unbreakable polypropylene housing. With hard Tungsten Carbide point.

Marks and engraves on wood, plastic, metal, leather... fast... easy. Pick it up and it turns on—put it down and it turns off... automatically. Control wheel adjusts point impact. Durable red plastic housing. With hard steel point. Net wt. 10 ozs.

Model V-73B. Wt. 1 lb. 37A9015. Each **\$12.95**
37A9016. 98003 Tungsten Point Each **\$1.49**
37A9017. 98080 Diamond Point Each **\$7.99**

Model V-69
37A9018. Each **\$6.95**
37A9019. 12325 Steel Point Each **\$1.49**
37A9020. 12340 Carbide Point Each **\$2.99**



BRISTLE BRUSHES

For cleaning and polishing silverware, jewelry and metal surfaces. Ideal for hard to reach places. 1/8" shanks.

Fig.	Stk. No.	Type	Each
①	37A9587	403	60c
②	37A9588	404	60c
③	37A9589	405	60c

WIRE BRUSHES

Handy steel brushes for removing rust and corrosion, polishing metal. 1/8" shanks.

Fig.	Stk. No.	Type	Net Each
①	37A9065	428	\$0.60
②	37A9066	442	.60
③	37A9067	443	.60

MANDRELS FOR ABOVE

1/8" shank. For use with cutting wheels, sanding discs.

No. 37A9080. Type 402. Each **60c**

⑤ Threaded stud type for polishing wheels.

No. 37A9081. Type 424. Each **60c**

⑥ Screw type for polishing felts.

No. 37A9082. Type 401. Each **60c**

DRUM SANDER

For smoothing, polishing. 1/8" shank. Replaceable bands.

Stk. No.	Type	Dia.	Net Each
37A9068	407	1/2"	\$1.10

REPLACEMENT BANDS (12 Per Pack)

Stk. No.	Type	Size	Per Pack
37A9070	408	1/2" Coarse	60c
37A9071	432	1/2" Fine	60c

POLISHING WHEELS

Used for polishing metals and plastics. Fits 402 Mandrel below.

Stk. No.	Type	Dia.	Net
37A9077	414	1/2" Felt	12 60c
37A9078	429	1" Felt	Each 60c
37A9079	423	1" Cloth	Each 60c

CHUCK COLLETS

For Moto-Tools 1, 2 and 3.

Stk. No.	Type	Fits	Net Each
37A9034	416	3/8"	\$0.60
37A9035	417	1/2"	.60
37A9036	418	3/4"	.60

For Moto-Tools 260, 270 and 280.

37A9074	434	1/8"	60c
37A9075	435	3/16"	60c
37A9076	436	1/4"	60c

For Moto-Tools 260 series 55-3 and 270, 280 series 66-2.

37A9590	480	1-8-3/32"	60c
37A9591	481	3/32-1/16"	60c
37A9592	482	1/16-1/32"	60c

SANDING DISCS

37A9084	Type 411. Coarse Sanding Discs. Box 36	60c
37A9085	Type 412. Medium Sanding Discs. Box 36	60c
37A9086	Type 413. Fine Sanding Discs. Box 36	60c

Outfit Your Shop With Tools From B-A

DREMEL MOTO-TOOLS SUPER POWERED COMPACT GRINDERS

Exciting new concept in space-age electronics. Rugged new industrial type grinder has permanent magnet motor with unique full wave rectifier circuit, produces 30,000 RPM. Has more than twice the power of previous models, will not stall under normal load. Electrically welded armature is dynamically balanced for vibration-free operation. All models use 1/8" collet. Models 261 and 271 are complete with 34 piece accessory kit, including brushes, wheels, cutters, 4 collets and case.

Model 260. Tool Only with 1/8" collet. Size 6 x 1 1/2". Net wt. 9 ozs. Shpg. wt. 1 lb. No. 37C160. Net Each **\$23.95**

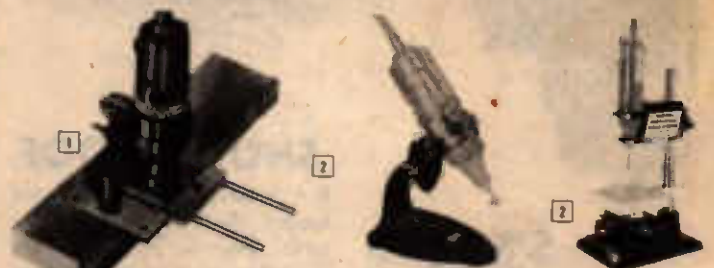
Model 261. Complete Kit, 260 Tool and 34 piece accessory kit. No. 37C159. Wt. 2 lbs. Net Each **\$31.95**

Model 270. Tool Only. More powerful industrial unit with 1/8" collet. Size 3 1/4 x 1 1/2". Tool wt. 11 ozs. Shpg. wt. 1 lb. No. 37C415. Net Each **\$27.95**

Model 271. Complete Kit, 270 Tool and 34 piece accessory kit. No. 37C357. Shpg. wt. 2 lbs. Net Each **\$35.95**

Model 280. Tool Only. Same as 270 but with ball-bearing construction for heavy duty. Tool wt. 11 ozs. Shpg. wt. 1 lb. No. 37A9006. Net Each **\$35.95**

Model 281. Complete Kit, 280 Tool and 34 piece accessory kit. No. 37A9127. Shpg. wt. 2 lbs. Net Each **\$43.95**



ROUTER ATTACHMENT

Attaches to 260, 270, 280 Moto-Tools. Produces smooth surfaces that need no sanding. Shape edges, cut rabbets, dados, mortises, tongues, and chamfers. Steel and delrin construction. No. 37A9537. Dremel 229. **\$9.95**

Stock No.	Dremel No.	Description	Each
37A9538	650	1/2" Straight Cutter Bit	\$3.10
37A9539	652	3/4" Straight Cutter Bit	3.10
37A9540	654	1" Straight Cutter Bit	3.10
37A9541	610	Convex Edger for Beading	3.10
37A9542	632	Veining Bit for Line Work	3.10
37A9543	640	"V" Grooving Bit for Lettering, Chamfers Edges	3.10

UNIVERSAL STAND

Leaves both hands free, adjustable to any angle. Has quick action clamp. Heavy cast iron base. Shpg. wt. 3 lbs. No. 37A9087. Model 223. **\$7.65**

DREMEL DRILL PRESS STAND

Fits 260, 270 and 280 models Moto-Tools. Drill press height 12". Base is 7" X 5". Table can be raised or lowered, locks in any position for accurate depth adjustment. Shpg. wt. 3 lbs. No. 37A9597. Model 210. Each **\$17.95**

Solid State Speed Control. Dial the right speed for the job. No. 37A9598. Model 219. Wt. 2 lbs. Each **\$15.95**

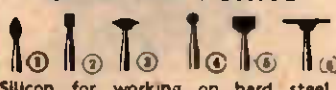
EMERY WHEEL POINTS STEEL CARVING CUTTERS

Fig.	Stk. No.	Type	Net Each
①	37A9023	953 1/4"	\$0.60
②	37A9024	971 3/8"	.60
③	37A9025	997 1/2"	.60
④	37A9026	921 1/2"	.60
⑤	37A9027	932 3/8"	.60

All have 1/8" shank.

Fig.	Stk. No.	Type	Net Each
①	37A9028	124	\$1.35
②	37A9029	134	1.35
③	37A9030	194	1.35
④	37A9031	116	1.35
⑤	37A9032	178	1.35
⑥	37A9033	198	1.35

GRINDING POINTS



Silicon for working on hard steel, writing on glass and other hard materials. 1/8" shank.

Fig.	Stk. No.	Type	Net Each
①	37A9037	83322	\$0.60
②	37A9038	83642	.60
③	37A9039	84382	.60
④	37A9040	84642	.60
⑤	37A9041	85562	.60
⑥	37A9042	85622	.60

CARBIDE CUTTERS



For working tool steel. Outlasts steel cutters many times. 1/8" shank.

Fig.	Stk. No.	Type	Net Each
①	37A9057	9904	\$3.90
②	37A9058	9903	3.90
③	37A9059	9906	3.90
④	37A9060	9907	3.90
⑤	37A9061	9908	3.90

WEN

DOUBLE INSULATED TOOLS



SHOCKPROOF

Red housings, double insulated against shock hazards. 2 wire cards plug in anywhere. No grounding or 3 prong adaptors required.

\$19⁹⁵

1 PRO MODEL 801— $\frac{3}{8}$ " VARIABLE SPEED DRILL

Powerful 2.6 amp. $\frac{1}{2}$ H.P. motor. 0-1200 RPM with adjustable speed lock. Ball thrust and needle bearings. Double reduction gears. Jacobs chuck. The ultimate in performance, balance, and ease of handling. Pre-select any speed from 0-1200 RPM or lock in desired speed for specific drilling requirement. 120 V. AC. $8\frac{3}{4}$ " L. x $2\frac{3}{8}$ " W. x $6\frac{1}{2}$ " H. No. 37A9584. Shpg. wt. $3\frac{1}{2}$ lbs. Special Each **\$19.95**

PRO MODEL 802— $\frac{3}{8}$ " VARIABLE SPEED REVERSIBLE DRILL

Just flip lever to reverse rotation. Other features same as 801 above.

No. 37A9114. Special Each **\$27.95**

2 PRO MODEL 300—DUAL ACTION SANDER

Powerful 2.6 amp. $\frac{1}{2}$ H.P. motor. 4000 orbits or 4000 straight line strokes per minute. Enclosed handle with built-in front guide grip. Instant push-pull switch from orbital to straight line action. 120 V. AC. 9" L. x $3\frac{3}{4}$ " W. x $6\frac{1}{4}$ " H. No. 37A9585. Shpg. wt. $3\frac{3}{4}$ lbs. Special Each **\$19.95**

3 PRO MODEL 400 13" DOUBLE EDGED HEDGE TRIMMER

Powerful 2.6 amp. $\frac{1}{2}$ H.P. motor. Heavy steel double cutting bar—1200 strokes per minute. Enclosed handle with built-in front guide grip for added safety and control. 120 V AC. 23" long X $3\frac{3}{4}$ " wide X $6\frac{1}{2}$ " high. Heavy steel double edge cutter bar 13" long. Shpg. wt. 5 $\frac{1}{2}$ lbs. No. 37A5581. Each **\$19.95**

4 PRO MODEL 501 DELUXE 2-SPEED JIG SAW

Powerful 2.6 amp. $\frac{1}{2}$ H.P. motor. 2 speeds—3000 and 2400 $\frac{3}{4}$ " strokes per minute. Husky shoe plate adjusts forward for plunge cuts, backward for close-to-wall cuts. Shoe tilts right or left 45°. The fully enclosed handle, design and balance offer ease of control for fast or precision cuts in wood or metal. Rip guide and three blades included. 120 V. AC. $7\frac{3}{4}$ " L. x $2\frac{3}{4}$ " W. x $6\frac{1}{2}$ " H. No. 37A9586. Shpg. wt. $3\frac{3}{4}$ lbs. Special Each **\$19.95**
No. 37A9599. 50A34-1. Blades for 501 Saw. 3 blade assortment: 1-7 tooth, 1-10 tooth, 1-18 tooth. Wt. 4 oz. Asst. Each **\$1.50**

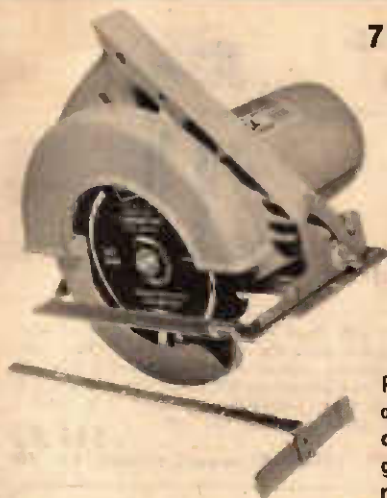
MODEL 942 6 INCH SANDER/POLISHER

Handles hundreds of sanding and polishing jobs. $\frac{1}{2}$ horse power 2.6 amp motor. Double reduction gears. Ball thrust and permanently lubricated sleeve bearings. Trigger lock switch with instant release. 1200 RPM speed. Includes polishing bonnet and 3 sanding discs. Double insulated. 2 wire cords, plug in anywhere.

No. 37A9131. Each **\$14.95**
No. 37A9136. 942A7, Polishing Bonnets Each **\$1.20**
No. 37A9137. 942A8-1, Coarse Sandpaper, Per Sheet **20¢**
No. 37A9138. 942A8-2, Medium Sandpaper, Per Sheet **20¢**
No. 37A9139. 942A8-3, Fine Sandpaper, Per Sheet **20¢**



\$14⁹⁵

\$14.95

**7 $\frac{1}{4}$ INCH CIRCULAR
2 HP MOTOR
POWER SAW**

\$29⁹⁵

SHOCKPROOF

Red housings, double insulated against shock hazards. 2 wire cords plug in anywhere. No grounding or 3 prong adaptors required.

Pro-power Model 961 with 11 amp. 2 HP motor, 5100 RPM. Rigid shoe plate and fine balance with rugged, powerful performance yet only 8 lbs. net weight. Maximum depth of cut at 90° $2\frac{3}{8}$ " at 45° $1\frac{7}{8}$ ". Safety-sure shockproof high impact cyclolac housing, extra heavy duty precision gears, permanent lubricated bearings, with extra safe slip clutch. Calibrated rip fence included. With $7\frac{1}{4}$ " combination blade. For 120 VAC, 60 Hz. Shpg. wt. 11 lbs. **\$29.95**

No. 37A9116. Model 961. Each **\$29.95**

WEN $\frac{1}{4}$ " DOUBLE INSULATED DRILL

LOW
COST

\$9⁹⁵

HIGH
PERFORMANCE



Drop handle design for perfect balance and control. New, efficient unitized construction for more reliability and increased performance. Powerful 2.6 amp. $\frac{1}{2}$ H.P. motor. 2000 R.P.M. Ball thrust bearings. Jacobs chuck. 120-V A.C. Universal motor—Red housing. $8\frac{3}{4}$ " long x $2\frac{3}{8}$ " wide x $6\frac{1}{2}$ " high. Shpg. Wt. $3\frac{1}{2}$ lbs.

No. 37A9113. Wen Pro Model 700. Each **\$9.95**

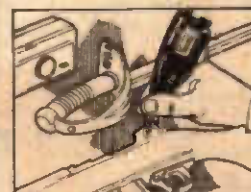
PERMANENT IDENTIFICATION



ON SHOP TOOLS



ON GLASS



ON SPORTING GOODS

WEN ELECTRIC PENCIL ENGRAVER

WEN**UL**

\$7⁹⁵

Versatile, lightweight, use it like a ballpoint pen. Writes on almost any material where a permanent identification or pattern is desired. For woods, metals, plastics or glass. Perfect balance—contoured to fit hand. Variable stroke adjustment permits heavy wide engraving or fine line according to material and need. Super hard Tungsten carbide tip. 7200 strokes per minute Tough durable hi-impact plastic housing. 7" long. 120 V AC. Wt. 13 ozs.

No. 37A9109. Each **\$7.95**

EXCEPTIONAL POWER TOOL VALUES!

WEN

HEAVY DUTY PROFESSIONAL TOOLS

Feature double-insulation - plus unitized construction! Unbreakable housings are guaranteed for life! Shockproof, safe! Two-wire plugs, plug in anywhere!

DOUBLE-INSULATED VARIABLE-SPEED SCROLL SABER SAW

Simple turn of the blade-guide knob lets you cut in any direction without turning saw! Locks in four positions: 0°, 90°, 180°, 270°. Variable-speed switch varies torque and speed as you cut—from 0 to 2800 powerful one-inch strokes per minute. Extra-large shoe-plate adjusts for left or right angle cuts. Shoe moves forward for plunge cuts—backward for flush cuts. Welded burn-out-proof motor, 120 Volt AC, 4 amps. Ideal for intricate scroll work. Powerful enough to zip through 2x4's or 4x4's at 45°—or to cut six-inch logs! Cuts two-inch pipe, half-inch steel, all metals—even linoleum, leather, rubber, cardboard! Includes seven assorted blades for every type cut, plus rip-guide. Lightweight—only 5 lbs., 2 ozs.
No. 37A9129. Model 531. Each **\$39.95**



EXTRA BLADES FOR 531, 521, 511, 510, 920D, 920, 909D and 909

37A9555. No. 91. Wood, 3 Teeth Per Inch. Package of 3	\$2.20
37A9556. No. 92. Wood, 5 Teeth Per Inch. Package of 3	1.80
37A9557. No. 93. Wood, Aluminum 8 Teeth Per Inch. Package of 3	1.45
37A9558. No. 94. Wood, 14 Teeth Per Inch. Package of 3	1.45
37A9559. No. 95. Cardboard, Leather, Rubber, 4" Knife Blade. Pkg. of 3	1.45
37A9560. No. 96. Steel, 14 Teeth Per Inch. Package of 3	2.20
37A9561. No. 97. Sheet Metal, Bakelite, Formica, Tile, etc. 24 Teeth Per Inch. Package of 3	2.20
37A9522. No. 900. Package containing 1 Each of above. Package	3.95

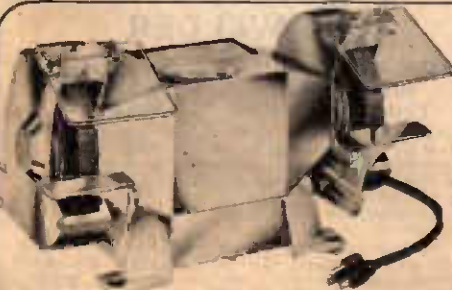
MODEL 919 DOUBLE-INSULATED 3 INCH BELT SANDER

Professional quality three-inch, continuous-duty belt sander handles the toughest sanding jobs with ease—1000SFPM. Unique tension design lets you change belts in seconds. Single control tracking adjustment. Lock "ON", quick-release safety trigger. Heavy-duty gears, oversized needle and bronze bearings. Three belts included, one each fine, medium, coarse. Lightweight, only 7 lbs. Convenient contour handle and auxiliary grip.
120 Volt AC, 4 amps.
No. 37A9130. Model 919. Each **\$34.95**

Sanding belts for Model 919. 3" x 18" aluminum oxide cloth back.	
No. 37A9133. 91A96. 50 Grit - 3 Belts per pkg. Ea.	\$2.20
No. 37A9134. 91A97. 80 Grit - 3 Belts per pkg. Ea.	\$2.20
No. 37A9135. 91A98. 120 Grit - 3 Belts per pkg. Ea.	\$2.20

MODEL 953 DOUBLE-INSULATED 1/2 INCH VARIABLE & REVERSIBLE HEAVY DUTY DRILL

Handles the big, tough drilling jobs, jet weighs only 5 lbs. 1/2" geared Jacobs chuck with 1/2" capacity in steel, 1 1/4" capacity in hardwood. Variable speed control from 0 to 600 RPM, adjustable speed-lock switch (forward to reverse), quick safety-release, drop handle-design for perfect balance, auxiliary 1/2" pipe handle. Welded, burn-out-proof motor, heavy-duty gears, ball thrust and bronze bearings. Value-rated and value-priced—with power to spare. 120 Volt AC, 4 amps.
No. 37A9132. Model 953. Ea. **\$34.95**



WEN

MODEL 1030 ELECTRIC GRINDER

\$39.95

A quiet 1/3 H.P. 8.5 AMP shaded pole motor running at 3450 RPM. Heavy duty precision ball bearings. Dynamically balanced wheels, 6" diameter, 3/4" thickness with 1/2" arbor. 36 grit coarse and 60 grit fine Burnished Wheels. Adjustable and tilting calibrated tool rests. Sharpening groove in tool rest to put the right edge on drill bits. Adjustable Eye Shields and spark arrestors. Pre-drilled bench mountings with rubber grommets. Enclosed wheel end-guards. Cast aluminum housing with Ball-Brite finish. 6 foot, 3 wire cord and adaptor. Size 15 x 9 x 8". Wt. 19 lbs.
No. 37A9128. Each **\$39.95**

LIGHTEST, TOUGHEST, MOST POWERFUL DRILL EVER OFFERED!

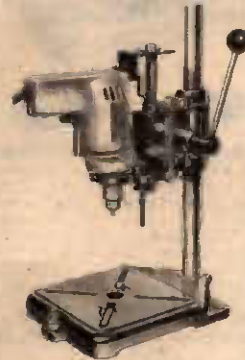


NEW THOR FAST-BACKS 3/8-INCH DRILLS

50% lighter . . . 30% more horsepower than conventional drills! Polycarbonate housing — virtually indestructible. Variable speed; all double-insulated. "Human engineered"—perfectly balanced for never before comfort in use! Gets into Hard-to-get-at corners no other drill can! Solid state magnetic motor; diode circuitry. Life-time lubricated spherical bearings. Double-reduction gears—like industrial drills. 7 7/8" long. Wt. 1 1/8 lbs. Variable speed 0-1200 RPM. Thor DI-112-VSC. **\$32.95**
No. 37A9103. Each
Reversible Variable Speed 0-1200 RPM. Thor DI-112R-VSC. **\$36.95**
No. 37A9104. Each

PROFESSIONAL QUALITY THOR DRILL PRESS STAND

\$19.95



Converts all 1/4" and 3/8" drills—Spade or pistol grip—to drill press. Do tough and accuracy requiring jobs with ease. Ideal when using attachments. Indispensable for tapping and precision drilling. Drill securely locks into cradle mtg. — moves up, down or rotates on supporting column. Has professional rods and pinion gear feed with heavy duty clock spring return mechanism. Easy to read depth scale with threaded lock nut stop for repeated drilling to predetermined depth. Depth of throat 4". Sturdy 1" dia. column and heavy cast base with slots for bench mtg. Wt. 8 lbs.
No. 378347. Each **\$19.95**

SHOPCRAFT ELECTRIC SCREWDRIVER

One of the handiest tools you can own! Ideal for assembly work, building and repairing cabinets, furniture, boats . . . countless jobs around the home and shop, 100 to 1 gear reduction assures high torque. Positive clutch action. Ball thrust and self-lubricating bronze bearings. No load speed 325 RPM. Instant release on-off switch, and reverse switch. Overall length 8 1/2". 6 ft. 3-wire cord. 115 V. 25-60 Hz. AC. Net wt. 2 3/4 lbs. Shpg. wt. 3 1/2 lbs. **\$25.99**
No. 37B5. Each

SPECIAL VALUE! COMPARE AT \$29.95



SHOP-VAC PORTABLE VACUUM

\$29.95

Handy for Home, Garage, shop! Unlimited uses for rough cleaning . . . big 2 1/2" dia. hose sucks up all kinds of debris. Heavy steel container withstands roughest use. Easy open clamps make emptying cleaner simple. Carrying handle attached. For 115 V. AC. With 6 ft. 2 1/2" hose, 6" utility nozzle and 2 1/2" to 1 1/4" hose adaptor.



5 GALLON CAPACITY. 3/4 HP. 18 x 12" dia. Shpg. wt. 17 lbs.	\$29.95
No. 37A613. Model 222. Net Each	
10 GALLON CAPACITY. 1 HP. 19 x 15" dia. Shpg. wt. 25 lbs.	\$34.95
No. 37A614. Model 777. Net Each	
BEST BUY! MODEL 778 DELUXE 10 GALLON CAPACITY. Includes 45" extension wand, right angle elbow adaptor, pkg. of 5 paper filters and two-way four wheel dolly. Shpg. wt. 30 lbs.	\$39.95
No. 37A9105. Complete—Cleaner and Accessories	

HANDY ACCESSORIES FOR SHOP-VAC

No. 37A9562. Two-Way Dolly for 5 Gallon Capacity. Each	\$5.95
No. 37A9563. Two-Way Dolly for 10 Gallon Capacity. Each	\$5.95
No. 37A617. Accessory Kit. 45" Extension Wand, 14" Floor Nozzle and large crevice tool. Kit, Each	\$9.95
No. 37A9055. Paper Filter. Package of 5, Per Package	\$1.00
No. 37A9056. Cloth Filter. Each	\$1.50

METAL-WORKING SHOP TOOLS

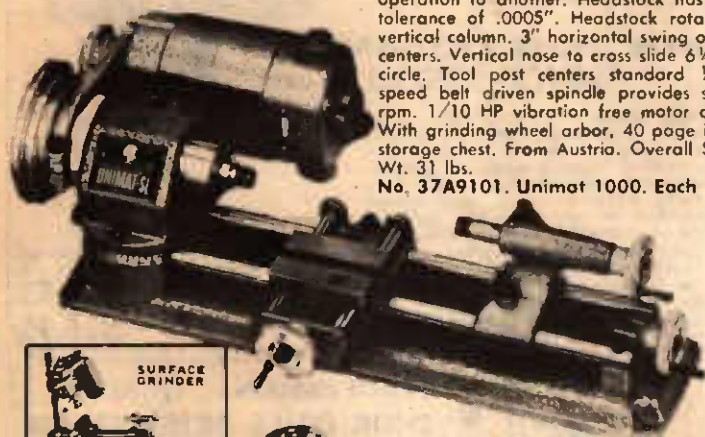
UNIMAT 5-IN-1 PRECISION TOOL SHOP

A lathe, drill press, tool grinder, milling machine and polisher all in one precision piece of equipment. Converts quickly from one operation to another. Headstock has ball bearing spindle with tolerance of .0005". Headstock rotates 360° on lathe bed or vertical column. 3" horizontal swing over bed, 6 9/10" between centers. Vertical nose to cross slide 6 1/4", drills to center of 6 1/4" circle. Tool post centers standard 1/4" bits. Ball bearing 11 speed belt driven spindle provides speeds from 900 to 7200 rpm. 1/10 HP vibration free motor operates on 110V AC/DC. With grinding wheel arbor, 40 page instruction book and wood storage chest. From Austria. Overall Size 14 1/2" x 4 x 5". Shpg. Wt. 31 lbs.

No. 37A9101. Unimat 1000. Each \$169.50

\$169⁵⁰

BUY ON B-A's E-Z CREDIT PLAN



POPULAR UNIMAT ACCESSORIES

- ① 1001. 3 Jaw Universal Lathe Chuck, 2 1/4" capacity. No. 37A9550. Shpg. Wt. 1 lb. Each \$29.95
- ② 1002. 4 Jaw Independent Lathe Chuck, 2 1/4" capacity. Each jaw adjusts individually. No. 37A9553. Shpg. Wt. 1 lb. Each \$32.95
- ③ 1010. Machine vise mounts onto cross slide or milling table below. No. 37A9551. Shpg. Wt. 13 oz. Each \$13.95
- ④ 1210 Milling Table. 5 x 3". Mounts on cross slide in 8 different positions. No. 37A9552. Shpg. Wt. 2 lbs. Each \$17.95
- ⑤ 2820 Set of 6 Tool Bits. 1/4" square finished HSS cutters. Includes roughing, right-hand turning, left-hand turning, cut-off, boring and inside threading tools. No. 37A9554. Shpg. Wt. 1/4 lb. Each \$17.95
- No. 37A9595-7. 1005. 1/4" Drill Chuck. 8 oz. Each \$10.95
- No. 37A9596-5. 2820/01. Roughing Tool. 3 oz. Each \$2.65

4-IN-1 TOOL

- FORMS
- RIVETS

- SHEARS
- PUNCHES

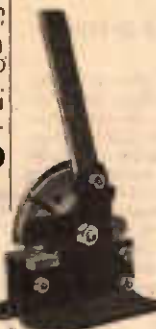
\$12⁹⁵

Many uses in plant or shop will save the cost of the 4-in-1 Tools many times over. Forms smooth, sharp bends up to 90° in rod or flat stock up to 1" wide and 16 gauge thickness. Rivets easily with hollow or solid rivets up to 1" from edge and combined thickness of 3/4". Shears metal up to 1" wide and 16 gauge thickness. Punches clean, sharp, burr free holes in metals up to 16 gauge and 1" from edge of stock.

3/8" round punch furnished. Made in U.S.A. Shpg. wt. 6 lbs. No. 37A3278. Each \$12.95

ADDITIONAL PUNCHES
 No. 37A3280. 1/8" Hex Punch
 No. 37A3281. 1/4" Hex Punch
 No. 37A3282. 1/8 x 1/4" Rectangular Punch

No. 37A3372. 1/8" Round Punch
 No. 37A3373. 1/4" Round Punch
 Your Choice Each \$1.00



BENDING AND FORMING BRAKE

\$12⁹⁵

Makes clean smooth bends and forms up to 90° in metals up to 16 gauge thickness, up to 18" wide. Provides flanged edges up to 1" in height. Adjusts easily for stock thickness and sharpness of bends. Made in U.S.A. Shpg. wt. 9 lbs. No. 37A3279. Each \$12.95

START METAL WORKING FOR FUN OR PROFIT... NO EXPERIENCE NECESSARY



PORTABLE ELECTRIC ARC WELDER \$20⁹⁵

COMPLETE READY TO USE...

A really practical, dependable unit that produces professional welding you'd expect only from equipment costing much, much more. Simplified instructions explain how to do both metallic and carbon arc welding, brazing, soldering, pre-heating and metal cutting. Make on-the-spot repairs in almost any type of metal... even aluminum. Fix hard to replace or impossible to get parts on mowers, garden tools, pots and pans, washers, dryers, farm equipment, TV and radio chassis... 1001 items around the home, shop or farm.

Complete with input power cable and plug, combination twin carbon arc torch—single metallic arc welding electrode holder and ground cable, welding and brazing rods, full face shield, flux, solder, carbon, grounding clip and complete welding instructions. Operates from any properly wired 110 V. AC-DC 30 amp line. Power unit size 6" H x 10 1/2" W x 6" D. Shpg. wt. 6 lbs. No. 37A9022. Each \$20.95

- WELD
- BRAZE
- CUT

IRON, STEEL, BRASS, BRONZE, COPPER, CAST IRON & OTHER METALS!



PROFESSIONAL ARC WELDER

WITH HEAVY DUTY INDUSTRIAL TRANSFORMER **\$59⁹⁵**

Features a heavy-duty industrial type transformer as used in machines selling for several times the price. Anyone can weld, braze, cut, solder on the first try. Does both carbon arc and metallic arc welding with 4 heat settings... 20 amp, 40 amp, 60 amp and 80 amp. Operates from any properly wired 110 V. AC 50/60 cycle line. 28 amps input. 5-year guarantee (factory repair or replacement if unit becomes inoperative due to defective materials or workmanship). Complete with head shield, electrode holder, welding cables, ground cables and clamp, power cable, asst. welding and brazing rods, solder, flux and complete instructions. Shpg. wt. 34 lbs. No. 37A9021. Each \$59.95

WELDING RODS AND ACCESSORIES

- 1 LB. 3/8" INCH MILD STEEL ROD No. 37A9007 \$1.39
- 2 LB. 3/8" INCH MILD STEEL ROD No. 37A9119 \$2.49
- No. 37A9009. 10 CARBON RODS..... \$2.89
- 1 LB. 3/8" POWDERED IRON ROD No. 37A9011 \$1.88
- 1 LB. 1/8" POWDERED IRON ROD No. 37A9010 \$2.68
- 1 LB. 3/8" INCH BRONZE FILLER No. 37A9012 \$3.94
- No. 37A9013. 1/2 LB. BRAZING-FLUX for use with Bronze Filler..... \$1.39

Use B-A's E-Z Pay Revolving Charge... Low Monthly Payments

POWER TOOL ACCESSORIES, GREENLEE PUNCHES

HANSON HIGH SPEED DRILL BITS

INDIVIDUAL BITS

High speed steel, 3/8" and larger have turned down shanks for 1/4" chucks.

STANDARD SIZES

Size	No.	Each	Size	No.	Each
1/4"	37A9501	5.33	3/8"	37A9507	5.68
3/8"	37A9502	.33	1/2"	37A9508	.79
1/2"	37A9503	.35	3/4"	37A9509	.99
3/4"	37A9504	.36	1"	37A9510	2.00
1"	37A9505	.47	1 1/4"	37A9511	2.80
1 1/4"	37A9506	.48	1 3/4"	37A9512	3.52

WIRE GAUGE SIZES

Ga.	No.	Clears	Screw Size	Each
43	37A9513	2-56		\$0.38
33	37A9514	4-36, 4-40		.42
28	37A9515	6-32		.50
18	37A9516	8-32		.65



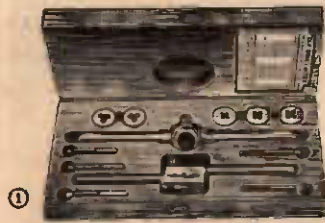
13 PIECE DRILL SET

Contains 13 full jobbers length finest quality high speed drills in sizes 1/4" to 1 3/4" by 4ths in unbreakable plastic case. Most popular sizes for general use in metal or wood.

No. 37A9567. **\$6.95**

Hanson S-113. Each

HANSON QUALITY TAP & DIE TOOLS



NO. 21 TAP & DIE SET

Popular set for the radioman or hobbyist. Consists of excellent quality high carbon alloy steel taps and solid dies, sizes 6-32, 8-32, 10-24, 12-24 and 1/4-20 plus Tap and Reamer Wrench with hardened jaws, and ruggedly constructed die stock. Comes in hinged wood box. Wt. 3 lbs. **\$12.95**

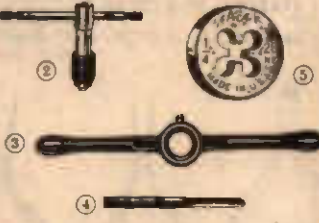
No. 37A3212. PER SET.

TAP WRENCH

Sliding handle type. Knurled chuck holds No. 0 to No. 12 taps. No. 37A3213. Each. **99c**

TAPS

No.	Size	O.D.	Each
37A3215	2-56	.086	\$1.19
37A3216	4-36	.112	.64
37A3217	6-32	.138	.64
37A3218	8-32	.164	.69
37A3219	10-24	.190	.74
37A3220	10-32	.190	.74
37A3221	1/4-20	.250	.84



DIE STOCK

Holds 1" O.D. dies for accurate cutting. Rugged construction for long service life. No. 37A3214. Each. **\$1.49**

DIES

Stk. No.	Size	O.D. Thd.	Each
37A3222	4-36	.112	\$0.99
37A3223	6-32	.138	.99
37A3224	8-32	.164	.99
37A3225	10-24	.190	.99
37A3226	10-32	.190	.99
37A3227	1/4-20	.250	.99

TRIPLE-TAP TOOL

Designed to re-thread stripped holes or to tap new holes. Taps 6-32, 8-32, 10-32 holes. No. 37A866. **\$2.60**

Vaco TT-31. Each



HI-SPEED COPE-SAW DRILL BIT

WORKS WITH ANY ELECTRIC DRILL

Drill, Saw, Ream metal, wood, plastic, etc. Drills own starting hole. Abrasive resistant, high speed steel. Withstands severe continuous use. 1/4" dia. Overall length 3 1/2". Wt. 3 oz. No. 37A9051 All Purpose Bit. Net Each. **\$1.95**



ZIPPIDI-DD ALL PURPOSE CUTTING AND SANDING DISC



\$2.99

A fantastic tool every electric drill owner will want! Fabricated of silicon carbide grains embedded in nylon mesh. Use to cut, sand, shape all metals, glass tile, paint rust, etc. Wears and wears, never clogs. 7 inch sanding and cutting disc with 5 inch molded disc for sanding and shaping. 1/4" arbor, 2 steel flanges. Shpg. wt. 1 lb. **\$2.99**

No. 37A9546. Each

GREENLEE CHASSIS PUNCHES



Quickly cuts clean, accurate holes in chassis or panel to accommodate sockets, switches, controls, meters, etc. Cutting is done by 2-point punch driven by 3/8" dia. square head cap screw. Operates simply with an ordinary wrench.

NO. 730 ROUND HOLE

No.	Size	Wt.	Each	No.	Size	Wt.	Each
37A3032	1/4"	2 oz.	\$3.05	37A3046	1 1/4"	9 oz.	\$3.60
37A3033	3/8"	2 oz.	3.05	37A3047	1 3/8"	10 oz.	4.45
37A3034	1/2"	3 oz.	3.05	37A3048	1 1/2"	13 oz.	4.90
37A3035	5/8"	3 oz.	3.05	37A3246	1 5/8"	1 1/4 lb.	5.95
37A3036	3/4"	3 oz.	3.05	37A3247	1 3/4"	1 1/2 lb.	6.80
37A3037	7/8"	3 oz.	3.05	37A3248	1 7/8"	1 1/2 lb.	8.40
37A3038	1"	3 oz.	3.05	37A3249	2"	1 3/4 lb.	9.00
37A3039	1 1/8"	6 oz.	3.45	37A3250	2 1/8"	2 lb.	9.70
37A3040	1 1/4"	6 oz.	3.45	37A3251	2 1/4"	2 1/2 lb.	10.00
37A3041	1 1/2"	7 oz.	3.60	37A3252	2 1/2"	2 lb.	16.30
37A3042	1 3/4"	8 oz.	3.60	37A3253	2 3/4"	5 lb.	22.65
37A3043	1 7/8"	7 3/4 oz.	3.60	37A3254	2 7/8"	3 1/2 lb.	14.85
37A3044	2"	8 oz.	3.60	37A3255	3"	6 lb.	31.30
37A3045	1 3/4"	9 oz.	6.20				

NO. 732 "KEYWAY PUNCH" Makes 1/4" hole with keyway for Amphenol "S" and similar sockets. 37A3259. Each **\$8.50**

NO. 731 SQUARE HOLE

No.	Size	Wt.	Each
37A3262	1/2"	5 oz.	\$8.10
37A3263	5/8"	5 oz.	8.10
37A3264	3/4"	6 oz.	8.80
37A3265	7/8"	10 oz.	10.30
37A3266	1"	10 oz.	10.70

Extra Drive Screws for Above No. For 1/2" or 5/8" Punch 30c
37A3257 1/4" thru 7/8" 30c
37A3258 1/2" thru 1 1/2" 35c

NO. 733 "D" HOLE

For HF and miniature tube sockets such as Amphenol's of a D shape. No. 37A3260 1/2" 2 oz. \$6.10
37A3261 5/8" 3 oz. 6.50

NO. 731R RELAY SOCKET PUNCH. Makes clean, accurate finished holes for Potter & Brumfield Type KHP relay sockets. 1.018"x.861" Wt. 10 oz. 37A3267. Each **\$16.25**

Same as above for P&B type KU and KUP, RBM type 93Q. Cuts hole 1 1/4" x 1 3/8". No. 37A3245. 731R. Net Each. **\$24.50**

BALL BEARING REPLACEMENT DRIVE SCREWS

Greenlee punches cut easier and faster than ever regardless of toughness of metal. Specially designed bearing assembly replaces present drive screw. Ball bearing soaks up friction allowing screw to be turned with ease.

Stk. No.	Type	For Punch Sizes	Each
37A3268	AV322BB	1/4", 3/8", 1/2"	\$1.35
37A3269	AV112BB	1/2" to 1 1/2"	1.45
37A3270	AV249BB	1 3/8" to 1 3/4"	3.50
37A3271	AV304BB	1 7/8", 2", 2 1/8", 2 1/4", 2 1/2", 2 3/4"	3.65

HAND OPERATED NIBBLING TOOL

CUTS ANY SHAPE OPENING IN SHEET METAL, COPPER, ALUMINUM, PLASTIC, ETC.

Cut those odd shape holes without distortion or strain in steel, aluminum, copper or plastic. Handles easily and smoothly, cuts rapidly with only one hand operation. Ideal for cutting transformer holes, socket holes, etc., in chassis. Capacity: steel, 18 gauge; aluminum, copper, plastic 1/8".

No. 37A3004 Shpg. wt. 8 oz. **\$4.50**
Net **\$2.50**
No. 37A3007 Replacement Punch. Net **\$2.50**



CIRCLE CUTTER

For cutting round holes in metals, wood, plastics, etc. Round shank for slow speed drill press or square shank for hand brace. Cutting bits are of high speed steel. Shpg. wt. 1/2 lb.

Stk. No.	Shank	Hole Size	Each
37A3049	Square-Round Comb.	7/8" - 4"	\$3.10
37A3050	1" Round	1" - 5 1/2"	3.90
37A3051	1 1/2" Round	1 1/2" - 5 1/2"	3.90
37A3052	3/4" Square	1 3/4" - 8"	6.60
37A3053	Extra Cutter for 7/8" and 1" sizes. Ea. 90c		



DRIVER ATTACHMENT KITS

FOR VARIABLE SPEED DRILLS, POWER SCREWDRIVERS



6 PIECE SCREWDRIVER BIT SET. Includes 3 slotted bits with finders for screws 6-8, 8-10 and 10-12 and 3 Phillips bits No's. 1, 2 and 3. Have 1/4" hex shanks. Shpg. wt. 5 ozs. **\$3.99**

No. 37A9565. Set For. 7 PIECE SOCKET SET. Includes 6 1/4" drive sockets and 1/4" drive socket adaptor. Socket sizes: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8". Drives nuts and bolts fast. Shpg. wt. 5 ozs. **\$2.99**

No. 37A9566. Set For.

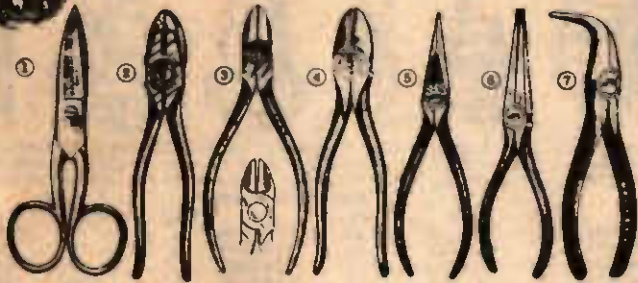
You'll Like B-A's Fast Personal Service

PROFESSIONAL QUALITY HAND TOOLS

KLEIN PLIERS

• HIGHEST QUALITY

• CUSHION GRIP HANDLES

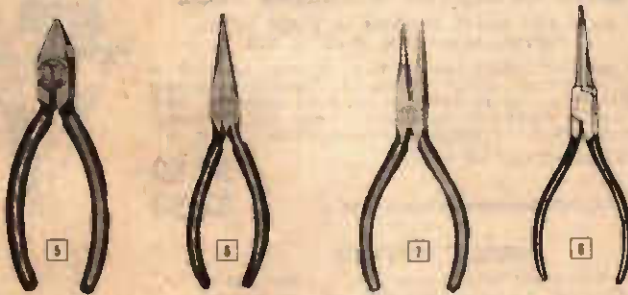
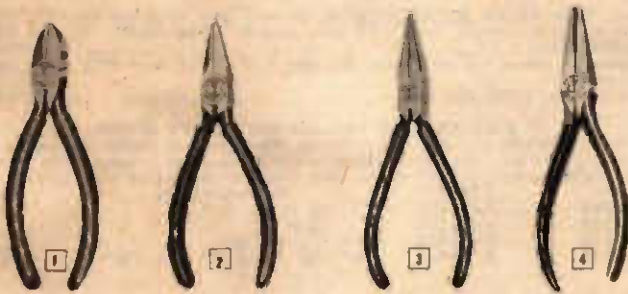


Stk. No.	Mfg. No.	Fig.	Wt.	Description	Each	16 Each
37A710	Z100-5	①	6 oz.	Xela "5" Scissors	\$3.68	\$3.07
37A711	D201-7NE	②	9 oz.	7" Side Cutting Pliers	4.72	3.93
37A712	D213-9NE	③	9 oz.	9 1/4" Side Cutters	5.82	4.85
37A713	D202-6	④	4 oz.	6" Oblique Cutting Pliers	4.02	3.35
37A714	D245-5W	⑤	4 oz.	5" Cutters w/wire strippers	4.35	3.63
37A771	D240-5	⑥	5 oz.	5" Cutters W/.052" Skinning Hole	4.43	3.69
37A715	D220-7	⑦	9 oz.	7" Oblique Cutting Plier	4.62	3.85
37A716	D301-7	⑧	8 oz.	7" Long Nose Pliers	3.57	2.97
37A717	D203-6	⑨	6 oz.	6" Long Nose w/Cutters	3.81	3.17
37A718	D305-6	⑩	6 oz.	6" Long Flat Nose Plier	3.44	2.87
37A719	D302-6	⑪	5 oz.	6" Long Curved Nose Plier	4.16	3.47

† Cannot assort for quantity prices.

KLEIN ELECTRONIC PLIERS

All have cushion grip handles. Average shpg. wt. 3 oz. + Cannot be assorted for quantity price.



Stk. No.	Klein No.	Fig.	Description	Each	+6 Each
37A731	D257-4	1	4" Oblique Cutting Plier	\$3.36	\$2.80
37A732	D257-4C	1	4" Oblique Cutting With Coil Spring	3.62	3.01
37A728	D321-4 1/2	2	4 1/2" Long Nose Plier	2.96	2.47
37A729	D321-4 1/2 C	2	4 1/2" Lg. Nose /With Coil Spring	3.20	2.67
37A968	D323-4 1/2	3	4 1/2" Flat Nose Plier	3.12	2.60
37A969	D323-4 1/2 C	3	4 1/2" Flat Nose /With Coil Spring	3.36	2.80
37A868	D224-4 1/2 C	4	4 1/2" Transverse End Cutting Plier	4.13	3.44
37A724	D209-4C	5	4" Pointed Nose Cutting W/Coil Spg.	4.13	3.44
37A726	D209-5	5	5" Pointed Nose Cutting Plier	4.27	3.56
37A967	D209-5C	5	5" Ptd. Nose Cutting W/Coil Spring	4.38	3.65
37A725	D307-5 1/2	6	5 1/2" Slim Long Nose Plier	3.30	2.75
37A977	D307-5 1/2 C	6	5 1/2" Slim Lg. Nose with Coil Spring	3.54	2.95
37A721	D221-5 1/2 C	7	5 1/2" Long Needle Nose with Cutter	4.19	3.49
37A723	D318-5 1/2 C	8	5 1/2" Long Needle Nose with Spring	3.86	3.21

KLEIN ADJUSTABLE WRENCHES

Chrome plated drop forged alloy steel combines maximum strength, lighter weight with lasting beauty.

Stk. No.	Mfg. No.	Wt.	Size	Cap.	Each
37A738	500-4	3 1/2 oz.	4"	1/2"	\$3.39
37A739	500-6	3 oz.	6"	3/4"	3.46
37A740	500-8	6 oz.	8"	1"	3.90
37A741	500-10	13 oz.	10"	1 1/8"	5.12
37A742	500-12	24 oz.	12"	1 1/4"	7.39

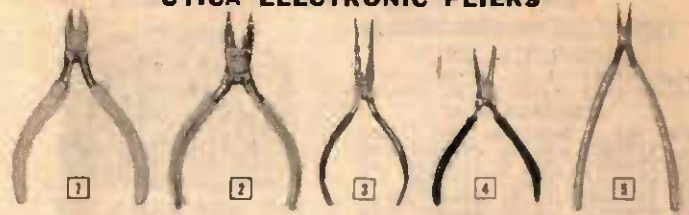
IN 5 POPULAR SIZES



CHROME PLATED

Contact Our Industrial Department For Prices On Larger Quantities

UTICA ELECTRONIC PLIERS



Best choice for today's dense circuitry and miniature components. Designed for use in close confined areas. All have coil spring to open jaws. Avg. Wt. 2 oz. All have cushion grip handles.

Fig.	Stk. No.	Utica No.	Description	Each	6 Each
①	37A855	347-4 CFJS	4" Snub Nose Diagonal Cutting Pliers	\$5.24	\$4.72
②	37A856	47-4 CFJS	4" Flush Edge Diagonal Cutting Pliers	5.60	5.04
③	37A857	66-5 CFJS	5" Tip Cutting Pliers With Pin To Hold Jaws In Alignment	6.36	5.72
④	37A858	774-5 1/2 CFGRS	5 1/2" Pickup & Wiring Pliers With Pin To Hold Jaws In Alignment	5.56	5.00
⑤	37A859	25-5 CFGRS	5" 60° Angle Bent Chain Nose Pliers, Unscored Jaws	6.12	5.51
⑥	37A860	23-6 CFGRS	6" Short Chain Nose Pliers With Very Thin Nose	5.71	5.14

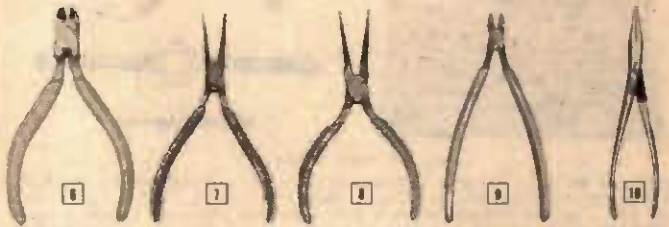


Fig.	Stk. No.	Utica No.	Description	Each	6 Each
6	37A978	13244-4 CFJS	4" Snub Nose Diagonal Cutting Pliers for snap cutting in confined places	\$4.47	\$4.02
7	37A979	B5317-5 CGRS	5" Thin Chain Nose Pliers-Extra thin nose, smooth jaws	4.35	3.92
8	37A980	B5318-5 1/2 CGRS	5 1/2" Long Nose Pliers - Jaws are unscored	4.74	4.27
9	37A981	34-6 CFKS	6" Long Handle Diag. Cutting Pliers Thin narrow nose, long reach handles	6.42	5.78
10	37A997	82-8C	8" Needle Nose Assembly Pliers Long Reach Handles, Short Nose Fine Serrated Jaws	4.34	3.91

UTICA ELECTRONIC SNIPS

6 1/2 INCH, LONG BLADE



Shear action cuts filament, fine wire and other electronic materials. Wt. 8 oz.
No. 37A705, 272.
Each \$4.66 6 Each .. \$4.19

VACO SNAP RING PLIERS



Removes and inserts retaining rings. With spring and cushion grip handle.
No. 37A921, Vaco 210 Internal with Spring. Each.... \$2.61
No. 37A922, Vaco 220 External with Spring. Each.... \$2.61

CHANNEL LOCK PLIERS



The first choice of mechanics for years. Interlocking principle positively prevents slipping under any load... the heavier the job, the greater the interlocking action. Made of highest grade steel with polished heads and handles. 440-C and 460-C supplied with plastic cushion grips.

Stk. No.	Mfg. No.	Capacity	Wt.	Description	Each
① 37A733	426	1/8"	5 oz.	6 1/2" Pump Plier	\$3.50
② 37A734	420	1 1/2"	12 oz.	9 1/2" Pump Plier	4.46
③ 37A735	430	3/8" to 2"	14 oz.	10" Big Champ Plier	4.66
④ 37A736	440-C	2 1/4"	1 1/4 lb.	12" Cripmaster Plier	5.30
⑤ 37A737	460-C	4 1/4"	3 lb.	16" Cripmaster Plier	6.78

UTICA "KUTMASTER" ELECTRICIANS' KNIFE

Standard 2 3/4" knife blade and a special screwdriver blade with insulation cutter and wire scraper. Screwdriver blade locks in open position. 3 3/4" black plastic handle with shackle ring, polished bolsters, and brass linings. Made to government specs. Shpg. wt. 7 oz.

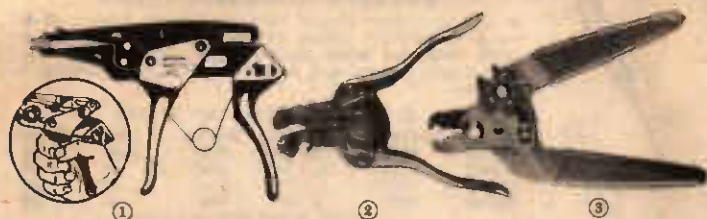
\$2.69



37A867. Each \$2.69 12 Lots, Each \$2.48

VERSATILE HAND TOOLS

POPULAR WIRE STRIPPERS



① UTICA "STRIPWRIGHT" WIRE STRIPPER

Slim nose design . . . reaches into the most closely confined areas. Just insert wire in end jaws and squeeze handle—strips fast and clean. Calibrated cam action dial adjusts to strip from #12 to #26 wire gauge size. Handles Teflon as well as other insulations. Gripping jaws hold wires firmly, keeps insulation marking at an absolute minimum. Comfortable cushion-grip handles. **\$21.20**
No. 37A827. Shpg. wt. 1 lb. Each.

② G.C. SPEEDEX AUTOMATIC WIRE STRIPPERS

Strips insulation automatically from wire easily and cleanly without crushing it. Just squeeze the handles and the job is done. Fully automatic with delayed return action—prevents crushing of fine stranded wire. Jaws remain open until wire is removed. Shpg. wt. 1 1/4 lbs.

37A828. Type 766. For 12 to 20 wire. **\$7.53**
37A829. Type 766A. For 14 to 30 wire. CHOICE EACH.

SPEEDEX WIRE STRIPPER KIT. Deluxe type wire stripper and 7 different size blades in a special steel box. Strips solid or stranded wire #8 to #30, 18 POSJ, and 300 ohm twin lead. Shpg. wt. 2 1/4 lbs. **\$14.70**
No. 37A830. Type 766K Complete.

③ G.C. STRIP-ER-CLIP

Precision tool for stripping and clipping wires 12 to 26 gauge. 8-stop gauge adjusts instantly to prevent accidental nicking or cutting. Wt. 10 oz. **\$1.49**
No. 37A709. Type 760. Each.

K. MILLER WIRE STRIPPERS



Strip or cut wire up to size 8 solid or stranded. Spring opens blades for easy use, locks when not in use.

① Model 101-S. Screw adjusts for different size wire. **\$1.49**

No. 37A888. Each

② Model 100. Without spring, otherwise same as 101-S. **\$1.19**

No. 37A889. Each

③ Model 103-S. Extruded cam stop makes adjustment immovable during use. **\$1.69**

No. 37A890. Each

④ Model 102. Without spring, otherwise same as 103-S. **\$1.49**

No. 37A891. Each

BURRING REAMERS

High grade chrome vanadium burring reamers rapidly remove burrs from chassis cutouts, antenna mast cutoffs, etc. Also handy for enlarging holes.

① T-Handle Type. Tapers 1/8" to 1/2". **\$2.54**

No. 37A821. Each

② Bit-Shank Type. Tapers 1/4" to 1 1/4". **\$3.49**

No. 37A822. Each



REMINGTON GRIT EDGE TUNGSTEN CARBIDE SAW BLADES



Remington's exclusive "GRIT-EDGE" process permanently bands thousands of Tungsten Carbide particles (one of the hardest materials known) to alloy steel forming a cutting edge that will cut extremely hard and abrasive materials! You can rip thru the hardest piece of metal (such as a file). Cuts materials formerly considered to be unsawable! You can cut glass, glazed tile, bricks, tool steel, marble, and with very little effort.

Rod Saw. Cuts angles, curves, works in tight spaces. Cuts on forward and reverse strokes. 10" blade fits any hacksaw.

No. 37A898. Remington No. RS10C Each **\$1.95** 10 Each . **\$1.50**

Hacksaw Blade. Straight cutting and virtually unbreakable. Cuts on forward and reverse strokes. 10" blade fits any hacksaw.

No. 37A984 Remington No. HS10C Each **\$2.29** 10 Each . **\$1.89**

Saber Saw Blades. 1/4" shank. Fit practically all popular make saws. Make smooth cuts in counter top, paneling, tile, fiberglass, etc.

Stock No.	Remington No.	Best For	Length	Grit	Each	10 Each
37A9631	SS2-1FH	Tile	2-7/8"	Fine	\$1.99	\$1.60
37A9632	SS2-1MH	Plywood	2-7/8"	Medium	1.99	1.60
37A9635	SS2-1CH	Fiberglass	2-7/8"	Course	1.99	1.60
37A9633	SS2-2MH	Flush Cutting	4"	Medium	2.29	1.89

GENUINE VISE-GRIP HAND TOOLS



① VISE GRIP WIRE CUTTERS. Tong-grip remains locked to work with hands removed. Adjusts to super-plier action, has powerful wire cutter.

Model 5WR-5". 5/8" thick jaws adjust to 1 1/4". Wt. 5 oz. **\$2.20**

No. 37A757. Net Each.

Model 7WR-7" 1/4" thick jaws adjust to 1 5/8". Wt. 10 oz. **\$2.48**

No. 37A758. Net Each.

Model 10WR-10" 3/8" thick jaws adjust to 1 7/8". Wt. 1 1/2 lbs. **\$2.88**

No. 37A759. Net Each.

③ SHEET METAL TOOL. Handy for forming chassis, making angle brackets, bending metal edges, etc. 8" long, 3/8" jaw width, 1 3/4" throat depth. Wt. 18 oz. **\$3.48**

No. 37A760. Type BR. Net Each.

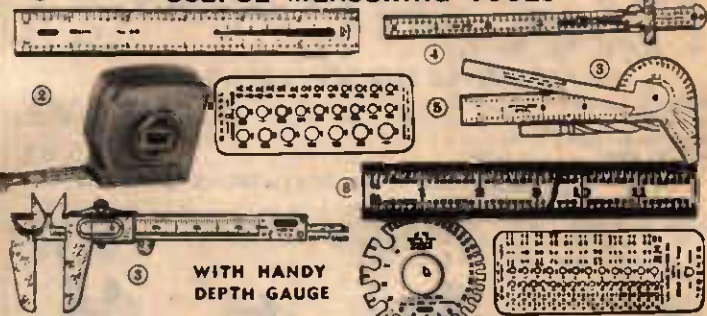
③ C-CLAMP. "Ice-Tong" jaws reach around any shape object. Adjust 0 to 3 3/4". Overall length 11". Wt. 28 oz. **\$3.48**

No. 37A761. Type 11R. Net Each.

④ VISE-GRIP CHAIN CLAMP & PIPE WRENCH. Adjusts to any size work up to 19 inches in perimeter. Has tremendous gripping power . . . holds and locks around anything, any size, any shape, anywhere that the 19" chain can be wrapped around. Shpg. wt. 2 lbs. **\$5.20**

No. 37A762. Model 20R. Each.

USEFUL MEASURING TOOLS



① 6" Rule & Wire Gauge

Stainless steel with 1/32" and 1/64" graduations. Has American wire gauge and decimal equivalents. Shpg. wt. 2 oz. No. 37A3236. **90c**

② Vaco 10 Ft. Steel Tape

Chrome case. White coated blade with two color printing. Graduated in 16ths except first foot is in 32nds. Wt. 5 oz. Vaco 70120. **\$1.92**

No. 37A887. Each

③ Vernier Caliper

Graduations deeply etched of 1/16" and 1/32". Inside jaws offset and may be used for scribing circles or dividers. 5" capacity. Shpg. wt. 8 oz. No. 37A3238 Your Cost, Eo. **\$2.75**

④ Pocket Rule & Depth Ga.

Tempered steel 6" rule with pocket clip. Quick reading 64th graduation. No. 37A3239 Shpg. wt. 2 oz. **26c**

Each.

⑤ Jobbers Drill Gauge

Gauges drills 1/8" to 1/2". Gives decimal equivalent. Heavy gauge. Shpg. wt. 5 oz. No. 37A3240 Each. **\$2.30**

⑥ Multi-Use Rule & Gauge

4" rule with 32nd and metric scale, a drill point gauge; square, bevel protractor, circle divider, center finder and top drill table. Stainless steel. With vinyl case. No. 37A3241. Each **\$2.30**

⑦ Handy Wire Gauge

American Standard. Gauges wire and non-ferrous metals sizes 0 to 36 with decimal equivalent of each on reverse side. Top quality tempered steel. No. 37A3242 Shpg. wt. 7 oz. **\$6.30**

Each.

⑧ 12" Steel Rule

Stainless steel rule. 7/8" wide graduated in 8ths, 16ths, 32nds, 64ths one side, 32nds, 64ths, 16ths, mm and 1/2 mm on the other. Shpg. Wt. 5 oz. No. 37A3243. Each **\$1.60**

⑨ Drill & Tap Gauge

Made of heavy gauge tempered steel. Gauges and gives decimal equivalent of numbered drills, sizes 1 to 60. Also handy drill index for machine screw taps. Shpg. wt. 5 oz. No. 37A3244 Each **\$2.30**

⑩ 1 1/2 INCH MAGNETIC PICK-UP TOOL

Reaches what your hands can't grasp. Use for picking up small parts from hard to reach places. With permanent Alnico magnet. No. 37A3202. **49c**

Wt. 4 oz. Each

1/8" Roman face characters for marking chassis, parts, etc. Simply hammer to produce clear sharp impressions. Shpg. wt. 2 lbs.

Letter Set—Consists of 28 characters. (A to Z, "G" and "Period"). No. 37A846. **\$6.95**

Per Set.

Figure Set—Consists of 9 characters. (0 to 8 with "6" being used also as "9"). No. 37A847. Per Set. **\$2.79**

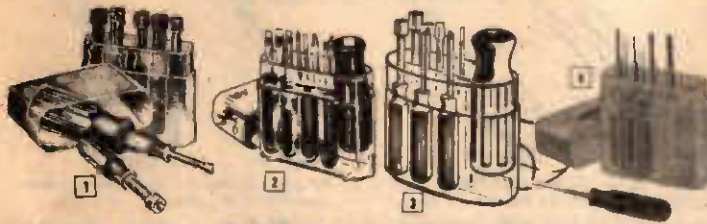
MILLERS-FALLS STEEL TOOL MARKING SETS





PROFESSIONAL HAND TOOLS

XCELITE COMPACT NUTDRIVER AND SCREWDRIVER SETS



WITH UNIQUE SLIP-ON TORQUE HANDLES

Handiest, most often needed precision tools. "Piggyback" torque handle slips on over regular handles for tough jobs—Provides the grip, reach and power of standard size drivers. Each set is in a see-thru plastic pocket size case with a flat base for use as bench stand.

① MINIATURE NUTDRIVER SET

A complete set of ten precision miniature size nutdrivers with shockproof, breakproof plastic handles—color coded for instant identification. Sizes: $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ ". Overall length of each $3\frac{1}{2}$ ". Supplied with torque handle and see-thru plastic case.

No. 37A701. Type PS120. Shpg. wt. 1 lb. Each **\$6.15**

② PRECISION SCREWDRIVER SET

All the screwdrivers needed for all servicing jobs in one compact see-thru plastic case. Includes 8 drivers—five standard slotted sizes $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$; #0, #1, and #2 Phillips. Shockproof, breakproof plastic handles. Overall length of each $3\frac{1}{2}$ ". Complete with torque handle.

No. 37A700. Type PS88. Shpg. wt. 1 lb. Each **\$4.47**

③ NUTDRIVER AND SCREWDRIVER SET

Includes the most popular sized tools from above kits. 2 nutdrivers $\frac{1}{4}$ " and $\frac{3}{8}$ "; 2 standard slotted screwdrivers $\frac{1}{8}$ " and $\frac{1}{4}$ "; 2 Phillips screwdrivers #0 and #1. With torque handle. Shpg. wt. 1 lb.

No. 37A743. Type PS7. Each **\$4.28**

④ NUT DRIVER AND SCREWDRIVER SET

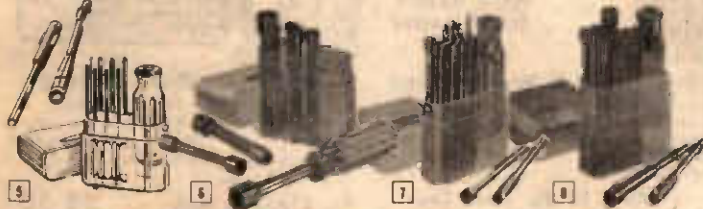
Includes 5 nutdrivers $3/16$, $1/4$, $5/16$, $11/32$, and $3/8$ "; 3 standard slotted screwdrivers $1/8$, $3/16$, and $1/4$ ", and 2 Phillips screwdrivers #1 and #2. With torque handle. Shpg. wt. 1 lb.

No. 37A992. PS 130 Each **\$5.85**

⑤ ALLEN HEX TYPE SCREWDRIVERS

Contains 8 midjet Allen Hex type screwdrivers in sizes .028, .035, .05, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$ and $\frac{1}{4}$ ". Greater speed and ease in turning than conventional keys. With torque handle and see-through plastic case.

No. 37A861. Type PS-89. Each **\$4.35**



⑥ XCELITE ALLEN HEX SCREWDRIVER SET

Long alloy steel blades provide 4" working length. Contains: 9 interchangeable blade sizes: .05, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$; 4" extension shaft, servicemaster amber colored handle. In pocket-size, see-through plastic case. Shpg. wt. 1 lb.

No. 37A767. Type 99PS-40 Each **\$7.43**

⑦ HOLLOW SHAFT NUTDRIVER SET

With Thru-Drilled Handle

Eight interchangeable hollow shafts permit installation and removal of nuts over protruding bolts. Drilled handle permits passing a screwdriver through handle and nutdriver shaft. For Combination locknut and slotted screw adjustments. Shafts snap in and out easily, held firmly. Contains $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ " shafts and handle.

No. 37A862. Type HSC-1. In plastic see-through case. Each **\$8.85**

⑧ SCREWDRIVER NUTDRIVER SET

Contains $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$ nutdriver blades, $\frac{3}{16}$ and $\frac{1}{4}$ " screwdriver blades, No. 1 and No. 2 Phillips, extension blade, handle, and see-through plastic case.

No. 37A863. Type 99PS-50. Each **\$9.15**

⑨ METRIC NUTDRIVER SET

Contains 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11 millimeter nutdriver shafts, 4" extension and handle. Shafts snap in and out of handle easily and are held firmly. In plastic see-through case.

No. 37A865. Type 99PS51 MM. Each **\$8.94**

MINI-DRIVER KIT

\$2.10

6 piece miniature slotted and Phillips screwdriver kit in see-thru plastic case. With torque handle, #00 Phillips end, .040, .055, .070, .080, and .1 slotted screwdrivers. Shpg. wt. $\frac{1}{2}$ lb.

No. 37A985. M60. Each **\$2.10**

XCELITE SCREWDRIVERS

Forged from tough Chrome Vanadium Electric Furnace Steel. Xcelite Screwdriver blades withstand heaviest usage. Shockproof, breakproof amber plastic (UL) handles are shaped for perfect grip and balance. Blades are securely embedded in handles.

① POCKET CLIP STYLE SCREWDRIVER

Stk. No.	Xcelite No.	Blade	Overall	Each	10, Each
37A801	R3322	$\frac{3}{16}$ x 2"	4 1/4"	\$0.41	\$0.36
37A802	R3323	$\frac{1}{2}$ x 3"	5 1/4"	.44	.39
37A803	R3324	$\frac{3}{8}$ x 4"	6 1/4"	.47	.42
37A804	R181	$\frac{1}{8}$ x 2"	4 1/4"	.41	.36

② ROUND BLADE SCREWDRIVERS

Stk. No.	Xcelite No.	Blade	Overall	Each	10, Each
37A864	R182	$\frac{1}{8}$ x 2"	4 3/8"	\$0.47	\$0.42
37A786	R183	$\frac{1}{8}$ x 3"	5 1/4"	.44	.39
37A787	R184	$\frac{1}{8}$ x 4"	6 5/8"	.54	.48
37A788	R185	$\frac{1}{8}$ x 6"	8 5/8"	.81	.54
37A995	R5324	5/32 x 4"	6-5/8"	.61	.54
37A789	R3153	$\frac{3}{16}$ x 2"	6 5/8"	.78	.69
37A790	R3164	$\frac{3}{16}$ x 3"	7 5/8"	.84	.75
37A791	R3166	$\frac{3}{16}$ x 5"	9 5/8"	.95	.84
37A792	R3168	$\frac{3}{16}$ x 8"	11 5/8"	1.05	.93
37A793	R144	$\frac{1}{4}$ x 4"	7 7/8"	1.11	.99
37A794	R146	$\frac{1}{4}$ x 6"	9 7/8"	1.22	1.08
37A795	R148	$\frac{1}{4}$ x 8"	11 7/8"	1.28	1.14
37A996	R5166	5/16 x 6"	10-1/2"	1.35	1.20

③ STUBBY SQUARE BLADE SCREWDRIVER

Stk. No.	Xcelite No.	Blade	Overall	Each	10, Each
37A805	S-141	$\frac{1}{4}$ x $\frac{1}{4}$ "	3 1/4"	.71	.63

④ PHILLIPS TYPE SCREWDRIVER

Stk. No.	Xcelite No.	Blade	Overall	Each	10, Each
37A796	X-100	0- $\frac{1}{16}$ x 2"	4 1/4"	.61	.54
37A797	X-101	1- $\frac{1}{16}$ x 3"	6 5/8"	.91	.81
37A798	X-102	2- $\frac{1}{16}$ x 4"	7 7/8"	1.11	.99
37A799	X-103	3- $\frac{1}{16}$ x 5"	10 1/2"	1.82	1.44
37A800	X-104	4- $\frac{1}{16}$ x 8"	12 1/2"	2.03	1.80

SCREWDRIVER SETS

5 Screwdrivers for slotted screws. Contains 1 each R182, R5324, R3166, R144, and R5166 in handy storage pouch.

No. 37A993. SDR-11 Each **\$4.26**

6 Screwdrivers. 4 for slotted screws, 2 for Phillips. Contains 1 each: R184, R3166, R144, R5166, X101 and X102.

No. 37 A994. SRX-33 Each **\$5.52**

LEATHER TOOL POUCH



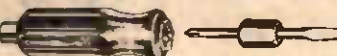
Fits belt. 5 compartments for pliers, screwdrivers, etc., snap for knife. 8x9". Finest pliable leather, stitched and riveted. Wt. 1 lb. Xcelite 150. 37B174. Net Each. **\$5.64**



XCELITE HOLLOW SHAFT NUTDRIVERS

Color coded, shockproof, plastic handles. Depth of hole $4\frac{3}{8}$ " or longer. Wt. 7 oz.

XCELITE 4-WAY TOOL



Includes: $\frac{1}{4}$ " and $\frac{3}{8}$ " nut drivers, No. 1 Phillips screwdriver, $\frac{3}{16}$ " slotted screwdriver. Type 600. No. 37A707. Each **\$1.92**
10 Each **\$1.71**

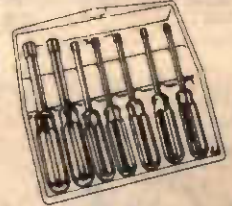
Stk. No.	Type	Nut Size	Lgth.	Each	10 Each
37A746	HS8	$\frac{1}{8}$ "	7"	\$1.15	\$1.02
37A747	HS10	$\frac{3}{16}$ "	7"	1.15	1.02
37A748	HS11	$\frac{1}{4}$ "	7"	1.15	1.02
37A749	HS12	$\frac{5}{16}$ "	7"	1.15	1.02
37A750	HS14	$\frac{3}{8}$ "	7 1/4"	1.32	1.17
37A751	HS16	$\frac{1}{2}$ "	7 1/4"	1.32	1.17
37A752	HS18	$\frac{5}{8}$ "	7 1/4"	1.38	1.23
37A753	HS20	$\frac{3}{4}$ "	7 1/4"	1.55	1.38

XCELITE NUTDRIVER SETS



No. 127TB. The 7 most popular size nutdrivers. Shockproof, breakproof plastic handles are color coded for easier selection of sizes. Fully polished 3" blades. Consists of sizes: $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ ". Molded plastic tray for bench, caddy or wall mounting. Wt. 2 lbs.

No. 37A744. Per Set. **\$6.75**



No. 147TB. The 7 most popular hollow shaft nutdrivers. Shockproof, breakproof plastic handles are color coded for easier selection of sizes. Contains $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ and $\frac{1}{2}$ " sizes. In molded plastic tray for bench, tool caddy or wall mtg. Shpg. wt. 2 lbs.

No. 37A745. Per Set. **\$8.94**

XCELITE MAGNETIC NUTDRIVERS



Alnico magnet holds fasteners firmly for easy one hand driving. Comfort contour handle.

Stock No.	Xcelite No.	Nut Size	Length	Each	10 Each
37A986	8M	1/4	7	\$1.55	\$1.38
37A987	10M	5/16	7	1.55	1.38
37A988	A8M	1/4	10	1.96	1.74
37A989	A10M	5/16	10	1.96	1.74
37A990	AA8M	1/4	20 3/4	\$4.59	\$4.08
37A991	AA10M	5/16	20 3/4	4.59	4.08

TIME SAVING HAND TOOLS

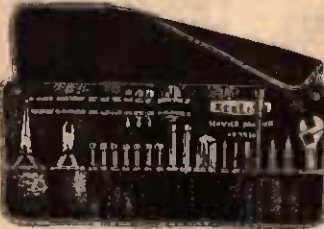
XCELITE NUTDRIVER AND SCREWDRIVER SETS



No. 99PR—Consists of amber plastic handle with 9 snap-in nutdrivers, sizes $\frac{1}{8}$ " to $\frac{1}{2}$ ", snap-in screwdriver bits with $\frac{1}{8}$ " and $\frac{3}{16}$ " blades; and snap-in screwdrivers with Phillips No. 1 and 2 blades. Tools fasten simply—are held securely in handle. Plastic roll case. Wt. 1 lb.
No. 37A754. Complete. **\$9.60**

XCELITE SERVICE MASTER KIT

Handles 99% of All Service Calls



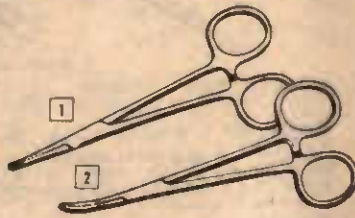
Versatile set of high-quality tools meets almost any radio-TV servicing need.

Set includes: 6" long nose pliers; 5" diagonal cutters; 6" adjustable wrench; 9 regular nutdrivers $\frac{1}{8}$ " through $\frac{1}{2}$ "; 3 stubby nutdrivers $\frac{1}{4}$ ", $\frac{3}{8}$ " and $\frac{1}{2}$ "; $\frac{1}{4}$ " and $\frac{1}{8}$ " slotted screwdrivers; #1 Phillips screwdriver; $\frac{1}{8}$ "- $\frac{3}{8}$ " reamer; $\frac{1}{4}$ "- $\frac{1}{2}$ " reamer; 7" extension; regular handle and stubby handle. All tools tough alloy steel with highly polished nickel chrome finish. In roll-up kit with separate compartment for each tool. Shpg. wt. 3 lbs.
37A756. Type 99SM. Each **\$29.03**

XCELITE SEIZER TOOLS

Especially designed for working with miniature components. Clamps on to work and will outthold needle nose pliers. Ideal for use as a heat sink, holding leads while soldering, restringing dial cords, etc. All stainless steel with precise box joints. Length 6".

- ① No. 37A811. Model 42H. Straight Nose. Net Each **\$4.65**
6 Lots Each **\$4.13**
- ② No. 37A812. Model 43H. Curved Nose. Net Each **\$4.80**
6 Lots Each **\$4.27**



VACO® screw Launcher* SCREWDRIVERS

① Fast positive gripping power. Set or remove screws in tight quarters. Will not slip out. Tough durable spring steel blades. Large comfortable handles.

Stk. No.	VACO No.	Blade	Overall	Each
37A877	K-23	$\frac{1}{8}$ "x3	5 1/2"	\$1.22
37A878	K-28	$\frac{1}{8}$ "x8	10 1/2"	1.47
37A879	K-34	$\frac{3}{16}$ "x4	7 1/2"	1.77
37A880	K-36	$\frac{3}{16}$ "x6	9 1/2"	1.81
37A881	K-38	$\frac{3}{16}$ "x8	11 1/2"	1.85
37A882	K-44	$\frac{1}{4}$ "x4	7 1/2"	1.85
37A883	K-46	$\frac{1}{4}$ "x6	9 1/2"	1.94
37A884	K-48	$\frac{1}{4}$ "x8	11 1/2"	1.98



② Grips and starts any cross slot screw. Ideal for hard-to-reach places. Not for tightening screws all the way in.

Stk. No.	VACO No.	Length	Each
37A874	K-13	3"	\$1.66
37A875	K-15	5"	1.94
37A876	K-19	9"	2.11

VACO POW-RIVET TOOL

SETS
3 SIZES
OF
RIVETS

\$4.95



A simple squeeze will fasten anything up to $\frac{1}{2}$ " thick, from one side. Sets $\frac{1}{8}$ ", $\frac{5}{32}$ ", and $\frac{3}{16}$ " sizes of rivets. Provides the fastest, most convenient means ever for fastening jobs in almost every type of work! Ideal for "blind" holes. Use Rivets in place of nuts and bolts, in place of ordinary rivets, in place of soldering, brazing, or adhesives. You'll do a neater, stronger job... many times faster. Ruggedly constructed with easy grip insulated handles. Shpg. wt. 1 lb.
No. 37A5518. Vaco 495 Tool Complete with Asst. of Rivets. Each **\$4.95**

Length	For Work	$\frac{1}{8}$ " Dia. Cadmium Plated Steel Rivets	Stk. No.	100 For
Short	$\frac{1}{8}$ " thick	25 for 49c	37A5524	\$1.19
Medium	$\frac{1}{8}$ " thick	20 for 49c	37A5525	1.49
Long	$\frac{1}{2}$ " thick	15 for 49c	37A5526	1.89
		$\frac{3}{16}$ " Dia. Aluminum Rivets	Stk. No.	50 For
Short	$\frac{1}{4}$ " thick	15 for 49c	37A5530	\$1.29
Medium	$\frac{1}{2}$ " thick	12 for 49c	37A5531	1.49
Long	$\frac{5}{8}$ " thick	10 for 49c	37A5532	1.59

BACK-UP PLATES for use where holes are too large for Rivets. Reinforce both sides of hole when riveting soft materials.
37A5545. For $\frac{1}{8}$ " Dia. Rivets. Box of 40 **44c**
37A5546. For $\frac{3}{16}$ " Dia. Rivets. Box of 30 **44c**

MOODY PRECISION TOOL SETS DESIGNED FOR MINIATURE WORK

Each kit is in plastic stand with clear plastic cover. Shpg. wt. 8 ozs. Per kit.

SC-5 SCREWDRIVER KIT

Contains 4 hardened steel nickel plated blades, sizes: .100", .080", .070", .055", plus handy awl; $\frac{2}{3}$ " knurled steel handle with plastic swivel top.
No. 37A708 Per Set **\$2.00**



SH-2 SCREW HOLDING SCREWDRIVER SET

Interchangeable spring steel clip fits either the $1\frac{3}{4}$ " or $2\frac{1}{2}$ " blade supplied—holds tiny screws with a firm grip for driving or removing from hard-to-get-at places.
No. 37A823. Per Set **\$2.00**

BW-5 MAGNETIC SOCKET WRENCH SET

Contains 5 sizes: $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ " and $\frac{5}{16}$ ". Magnetized to simplify the handling of tiny hex nuts.
No. 37A824. Per Set **\$4.40**

OE-5 OFFSET OPEN END WRENCH SET

Contains five heat treated steel interchangeable wrenches, sizes: $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ " and $\frac{5}{16}$ ". $\frac{2}{3}$ " knurled steel handle with chuck and swivel top.
No. 37A825. Per Set **\$3.50**

TS-5 HOBBYIST TAP SET

Contains 5 taps 0-80, 1-72, 2-56, 3-48 and 4-40 plus tap wrench. For tapping plastic, metal, etc.
No. 37A826. Per Set **\$8.00**

#71 PRECISION DIE SET

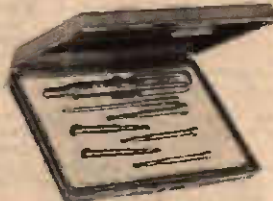
Hexagon threading dies. Use with any $\frac{3}{8}$ " wrench. Contains 0-80, 1-72, 2-56, 3-48 and 4-40. In plastic box.
No. 37A885. Per Set **\$21.99**

JEWELERS SCREWDRIVER SET

Perfect for working with jewelry, instruments, small electronic devices, hobbies, etc. Six hardened steel replaceable blades, sizes: .100", .080", .070", .055", .040", .025". Each unit has hexagon swivel head with thumb rest and knurled steel handle. Threaded chuck firmly holds blade in position. Overall length $3\frac{3}{4}$ ". Shpg. wt. $\frac{1}{2}$ lb.
No. 37A845. Moody JS-6. Set of 6 Each **\$4.40**



VACO RATCHET HANDLE NUTDRIVER KIT



Contains most popular hollow shaft nutdriver blades sizes $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ " and 5" extension. All sockets are super hard. Molded plastic box for convenient storage. Shpg. Wt. 2 lbs
No. 37A870. VACO 516103. Each **\$9.44**

SELF-ADJUSTING SOCKET WRENCH



Unique self-adjusting action instantly and automatically selects the right socket to fit any of 4 different sizes of hex head bolts or nuts from $\frac{1}{4}$ " to $\frac{7}{16}$ ". Use with bolt extensions up to $1\frac{1}{2}$ " long. Shpg. wt. $\frac{1}{2}$ lb.
No. 37A765. Each **\$2.99**

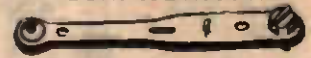
Ratchet Action Self-Adjusting Socket Wrench.
No. 37A886. Each **\$4.95**

REVERSIBLE SCRIBER



Knurled steel handle with chuck that holds needle point and retracts into handle when not in use.
37A841. Complete. Each **\$1.20**
37A842. Extra Points. **29c**

RATCHET OFFSET SCREWDRIVER



With Std. $\frac{1}{4}$ " and $\frac{3}{8}$ " blades.
No. 37A843. Net Each **\$1.70**
With Phillips #1 & #2 blades.
No. 37A844. Net Each **\$2.20**

MILLERS-FALLS HI-SPEED COUNTERSINK



Countersinks in metal, wood, plastic, etc., to admit heads of screws. Fine grade high-speed steel. $\frac{1}{4}$ " shank for use in electric drills. Lgth. $2\frac{1}{2}$ ".
No. 37A9045. Wt. 2 oz. Net Each **\$1.99**

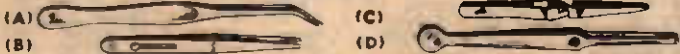
① AUTOMATIC CENTER PUNCH

For simple and accurate punch marking before drilling. Just push and automatic internal spring loaded mechanism does the rest.
No. 37A769. Each **\$5.30**

③ CAN'T-ROL CENTER PUNCH

No. 37A770. Each **69c**

TWEEZERS



(A) 7" Long, curved smooth point Tweezers. Shpg. wt. 2 oz. **90c**
No. 37A3228. Each **90c**
(B) $4\frac{3}{4}$ " Long Slide Lock, blunt smooth point tweezers, plated. **90c**
No. 37A3229. Each **90c**

(C) $1\frac{1}{2}$ " Long Self-Closing blunt serrated points, plated, wt. 2 oz. **80c**
No. 37A3230. Each **80c**
(D) $4\frac{3}{4}$ " Long common soldering tweezers, plain steel. **80c**
No. 37A3231. Each **80c**

Use B-A's Revolving Charge To Buy The Tools You Need

TOOLS FOR THE SERVICE SHOP

QUICK-PICK TOOLS



REMOVE TRANSISTORS
EASILY!

\$6.95

Set of 7 Tools. Removes transistors and capacitors easily from complicated, crowded circuits. Tools clamp over transistor or part acting as a heat sink, leaving both hands free for soldering or de-soldering. A slight pull on the quick pick will remove the part when the leads are free. Plastic case for bench or tool box.

No. 37A3366. G.C. 9216. Per Set.....

\$6.95

POPULAR SERVICE SHOP TOOLS



① Tube and Parts Extractor. Spring steel rubber cushioned prong.
No. 37A3197. G-C 5092. Wt. 12 oz. Each.....

98c

② G-C Illuminated Inspection Mirror. Gets into dark, hard-to-get-at places. Insulated, 7/8" dia. adjustable mirror, lucite rod. Lgth. 12 1/4". With bulb. 6 oz. No. 37A3198. (Less Batteries).
G-C 8725. Each.....

\$2.50

No. 21A3. Batteries for above. Each.....

③ Bulb Remover. Removes pilot bulbs easily from awkward places.
No. 37A3199. Dialco L-73. Wt. 3 oz. Each.....

39c

④ Folding Pocket Magnifier. 1 3/4" diameter lens. 2 1/2 Power. Stiff leather case.
No. 37A3200. Wt. 4 oz. Your Cost, Each.....

\$1.30

⑤ Flexible Screwholding and pickup tool. Handy flexible tool made of spring coiled wire with retractable spring steel jaws. Ideal for starting screws or nuts, and retrieving small parts in inaccessible places. 24" long.
No. 37A3201. G-C 5089. Wt. 5 oz.
Net Each.....

\$1.50

⑥ Universal Fuse Puller. Accommodates all kinds and types of fuses including household screw-in plug types and cartridge fuses up to 3/4" or 100 amps. Made of molded nylon... non-conductive, non-inflammable, virtually unbreakable. Wt. 3 ozs.
No. 37A3203. G-C 9356. Each.....

\$1.00

⑦ Ne-O-Lite Electric Trouble Shooter. Handy for radio men and electricians for testing AC lines, polarity of AC or DC, for blown fuses, tracing ground line in AC circuits, as an RF indicator, spark plug and cable tester, etc. Can be used on voltages of 60 AC to 550 volts AC or DC. Wt. 3 ozs.
No. 37A3020.
CC 5100. Each.....

60c

⑧ Low Voltage Test Light. Tests any source from 5 to 50 volts AC or DC. Light brightens as voltage increases.
No. 35A8011. CC 5105. With Tip Prods.....

\$1.25

No. 35A8012. CC 5110. With Alligator Clips.....

\$1.40

COLOR TV DEGAUSSING COIL AT LOWEST COST!

SAFE, EASY TO USE... EVEN FOR SET OWNER

\$7.95

Improves & Sharpens Color By Removing Pix Tube Magnetism



Eliminates fuzzy, unwanted stray colors... in just minutes. An absolute necessity for the serviceman. Simple for anyone to use... allows set owner to save many dollars by demagnetizing his own color TV. High-impact plastic, with momentary push button switch. Convenient storage clip for back of set. With illustrated instructions.

No. 37A3001 G-C 2592. **\$7.95**
Wt. 1 lb. Each

FOR VIEWING SCREEN WHILE SERVICING SET



TV SERVICE MIRROR

Just the thing for viewing the TV screen while adjusting controls or servicing in rear of set. Good quality 12x10" glass mirror does not distort image. Telescoping stand adjusts to the necessary height—collapses for easy carrying when making service calls. Shpg. wt. 4 lbs. G-C 8390.

No. 37A3195 **NET EACH \$7.50**

MIRROR ONLY FOR BENCH USE

12x10" glass mirror in chrome frame and with upright bracket.
No. 37A3196 G-C 8391. Each... **\$3.75**

HANDY TV ALIGNMENT KITS

Low Cost Kit. Contains all the necessary tools for doing a complete TV servicing job, 9 tools in all—in a convenient pocket sized leatherette roll case.

Made to last and wear for hundreds of jobs—an absolute must for every service shop. Includes K-tran tool, channel tools, tool for RF and IF, core aligner, oscillator tool, long reach aligner, universal aligner, duplex aligner and flexible tuning wand. Wt. 1/2 lb.
No. 37A3021. GC8455. Each..... **\$6.95**



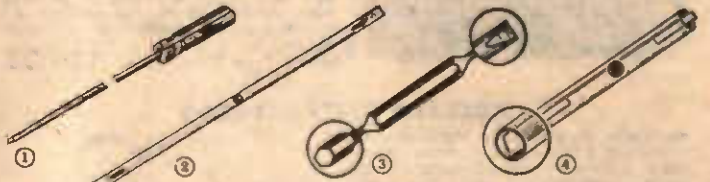
Deluxe Kit. Similar to above but with 16 tools in roll case. Handles alignment of most TV sets. All tools are of best quality available. Designed to give long service. Wt. 1 lb.
No. 37A3022. GC8280. Each..... **\$10.30**

"LUCKY 13" ALIGNMENT KIT

General purpose kit for AM-FM, TV, CB equipment. 13 piece set contains screwdriver, solder-aid, pocket oillette and most needed alignment tools. GC 582.
No. 37A3273. Each..... **\$9.95**



GC ALIGNMENT TOOLS FOR ELECTRONIC SERVICING



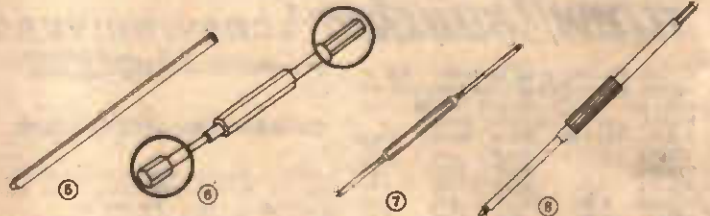
Average wt. 3 oz. each

① Narrow Blade "Fibreglas" screwdriver completely insulated. Type 9291.
37A3012. 7" L. x 3/8" dia. Each... **85c**

② Long Reach Alignment Screwdrivers. Made of "Fibreglas", extra thin 1/8" dia. blades. Screwdriver tips both ends—can be re-ground.
37A3013. Type 9293. 12" L. x 1/8" dia. Each..... **55c**
37A3014. Type 9294. 16" L. x 1/8" dia. Each..... **80c**

③ Molded Double Ender. Delrin plastic molded for Zenith TV's etc. Hex wrench 5 1/4" x .100" dia. one end, screwdriver tip other end. Type 8282.
37A3015. Net Each..... **45c**

④ Low Loss Plastic Tool. 5" L. x 3/8" dia. Recessed blade one end, extended blade other. Type 8609
37A3189. Net Each..... **75c**



⑤ TV Duplex Aligner. One end has projected tip, other has recessed tip. 6 1/8" long.
No. 37A983. Type 8276 Each **65c**

⑦ Trimmer and Tuner Adjusting Tool .05 hex one end and screwdriver tip on other 5 1/2" long.
No. 37A3185. Type 8605 Each..... **70c**

⑧ Delrin Plastic Hex Wrench. .100". Hex wrenches both ends, one end undercut to reach bottom slugs in iron cores. 11" long.
No. 37A3016. Type 8606L. Each **63c**

⑧ Transistor IF Core Aligner. Reaches bottom slugs in iron cores. 5" long. Delrin, one end .06" square, other .104" hex with rectangular nib.
No. 37A3017. Type 9440. Each **75c**

1 COLOR TV ALIGNMENT KIT

Contains 5 most needed aligners plus one extend-it to make long tools out of short ones.
No. 37A3184. GC 8454. Each..... **\$2.49**

2 NON-MAGNETIC ALIGNING TOOL

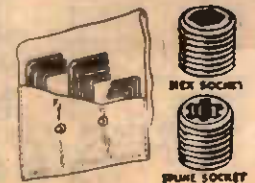
For hard turning slugs and long reach TV tuners. Made of heat treated Beryllium copper. Blade is 1/8x10" long.
No. 37A3211. Xcelite BR1810. Each..... **\$1.22**

3 BASIC TV ALIGNMENT TOOL KIT

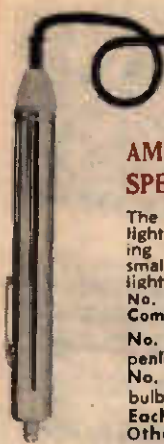
A handy all purpose TV kit. Contains four essential tools that will service the majority of radio and TV sets. Fits in shirt pocket.
No. 37A971. GC8457..... **\$2.50**

HEX & SPLINE WRENCH KIT

Handy pocket size kit contains complete range of wrench sizes used in electronics. Includes Hex (Allen) wrenches that fit No. 2 to 5/16" set screws and Spline (Bristol) wrenches for set screws up to No. 10 in durable vinyl case. Shpg. wt. 8 ozs.
No. 37A766. Per Set..... **\$1.79**
10 Sets, Each..... **\$1.59**



TOOLS FOR SERVICE SHOP



**BENDS LIGHT,
TWISTS LIGHT, PUTS IT
WHERE IT'S NEEDED!**

AMAZING NEW SPECK-O-LITE INSPECTION LIGHT

The Speck-O-Lite utilizes a 12 inch slender, flexible fiber-optic light guide to bend light around corners where no ordinary lighting can be placed. The Speck-O-Lite can go through holes as small as 1/8th inch, be twisted into a knot, and still deliver the light where it's needed.

No. 37A542. Kurz-Kash Model SL-11. Complete with Batteries Each **\$3.29**
No. 37A543. Adaptor, fiber-optic tube and bulb. Use with any penlite, Kurz-Kash SLA-10 Each **\$1.49**
No. 37A544. Replacement Bulb. Kurz-Kash RBA-8. Type 222 bulb with adaptor head for attachment of fiber optic guide. Each **49¢**
Other fiber optic light guides are listed on Page 242.



29 PIECE DRILL SET

All sizes over 1/4" have 1/4" shank. Chrome vanadium. With drill index. 1/4 to 1/2" by 64th. Quality import. Wt. 3 3/4 lbs. No. 37A9005. Each **\$10.95**



13 PIECE HIGH SPEED DRILL SET

Standard jobber lengths: 1/4 to 1/4" by 64th. Plastic index. Quality import. Wt. 1/2 lb. No. 37A9004. Each **\$3.95**



X-ACTO SWISS NEEDLE FILES

SET OF 12 FILES **\$8.75**

Extremely handy for hobby and shop work.

Same as used by jewelers, watch-makers, tool and die makers, etc. Includes round, half-round, flat, oval, knife, etc. files—one for every need. In compartmented storage stand. Quality made by Swiss craftsmen.

No. 37A703. Type 60S-ST Each **\$8.75**



PIN PUNCH SET

Handy kit of 8 high quality forged steel pin punches in most popular sizes 1/16" to 1/8". In convenient wooden case for bench or tool box. Wt. 3 lbs. No. 37A820. Ea. **\$8.45**



CHASSIS PUNCH SET

5 PUNCHES PLUS BURRING REAMER AT PRICE YOU NORMALLY PAY FOR 2 OR 3 PUNCHES ALONE!

Five most often needed round hole punches. Cuts clean accurate holes in chassis or panel to accommodate sockets, switches, controls, etc. Does the job quickly and easily—drive with any wrench or with T-handle included. Punch sizes are 5/16", 1/4", 3/8", 1" and 1 1/2". Complete with punches, dies, T-handle, 1/8" to 1/2" tapered burring reamer, and handsome case. Quality import. Shpg. wt. 3 lbs. No. 37A3204. Special Per Set **\$12.95**

MINI-VOLT VOLTMETER

Checks voltage AC or DC from 65 to 660 volts. Will indicate a 2 or 3 volt drop on 110 volt line. Use to identify AC or DC lines, check fuses, circuits, grounds, etc. Impedance 1/2 megohm draws negligible current. Glow lamp guaranteed 25,000 hours. Withstands tough abuse. 12" flexible leads with test prods. Wt. 3 oz. No. 35A8000. Industrial Devices 400B. Each **\$2.98**

SAFE-T-KORD FOR FUSED POWER PROTECTION

Eliminates shorts and shocks—dangerous bare leads. Protect equipment from burnout. Apply line voltage to components not having line cords. Thread-on clear Lexan housing for visual inspection and quick replacement of fuse. Supplied complete with two 5 amp fuses (1/4" dia. x 1" long). No. 35A8007. Industrial Devices 1480 **\$2.39**



POMONA SOCKET SAVERS

Miniaturized, only .336" (7 G 9) and .68" (octal) high. Protects tube tester sockets from wear caused by repeated use. Assures positive contact to tube pins. Simple plug-in installation, no wiring. Shpg. wt. 3 oz.

No. 12A5024. 1751. For 9-pin Novar. Each **\$2.50**
No. 12A5021. 1847. For 7-pin. Each **\$1.95**
No. 12A5022. 1848. For 8-pin. Each **\$2.95**
No. 12A5023. 1849. For 9-pin. Each **\$1.95**



VOLTAGE TEST ADAPTERS

Handy for checking circuit voltages, etc. without removing chassis. All socket connections are topside... within easy reach of a test prod.

No. 12A5118. 7-Pin Miniature. GC 9247. 4 Oz. Each **\$1.75**
No. 12A5119. 8-Pin Octal. GC 9248. 4 Oz. Each **\$1.85**
No. 12A5120. 9-Pin Miniature. GC 9249. 4 Oz. Each **\$1.95**

No. 12A5121. Kit of 3 (above) in convenient container. GC 9290. Kit **\$4.95**



VECTOR CURRENT OR VOLTAGE TEST ADAPTERS

Vector current test adapters allows both voltage and current measurements to be made in operating tubes on any pin merely by inserting test adapter between tube and chassis and taking reading at meter to which test probe leads are connected. Special P-2 probe "breaks" circuit for current measurements when inserted in test adapter tabs. Average shpg. wt. Kits—8 Ozs.; Indiv. Adapters—4 Ozs.

Stk. No.	Mfg. Type	Description	Each	1-19
12A5111	T7MC	7-Pin Miniature Adapter	\$3.04	
12A5112	T8OC	8-Pin Octal Adapter	3.83	
12A5113	T9NC	9-Pin Novar Adapter	3.24	
12A5114	T789C	Set of above 3 Adapters with P-2 Probe in box	11.69	
12A5115	T9RC	9-Pin Novar Adapter	3.65	
12A5116	T12C	12-Pin Compaction Adapters	4.49	
12A5117	T9T2C	Set of Novar, Compaction and P-2 in box	10.35	
35A8014	P-2	Double-sided Probe required with above	1.19	

REPLACEMENT TEST LEADS



Test Leads of Best Quality—Flexible, kinkless Wire 48 to 50 inches long.

① Phono Needle Type. Replaceable phono needles in chuck-type collar. Slim 4" red and black handles. With standard phone tips. Wt. 8 oz. No. 37A3023. Type 613. Pair **\$1.05**

② All Purpose Type. Sturdy, slim 6" plastic handles with sharp point tips. Equipped with banana plugs allowing for interchange of spade lugs, phone tips or alligator clips all supplied. Wt. 8 oz. No. 37A3024. Type 610. Complete Kit **\$1.90**

③ Weston Type. Well made for precision tests. Red and black 4" long pencil type plastic handles, 48" lead, molded finger grip phone tips. No. 37A3025. Type 625. Wt. 8 oz. Per Pair **\$1.50**

④ Same as above with banana plugs for Simpson, etc. No. 37A3186. Type 685. Wt. 8 ozs. Pair **\$1.70**

Slim Line Type. Long vinyl-insulated shafts. Red and black tennite handles. Phone tip plugs. No. 37A3192. Type 698. Per Pair **\$1.35**

TEST PRODS AND WIRE



① Phono Needle Type—Tapped removable chuck holds standard phono needles. Red or Black Tennite handle. No. 37M3026. Type 317. 5" L. 42c

② Solderless Type—Tapped removable plug holds wire securely by means of knurled collar. Red or Black. No. 37M3027. Type 302. 5 1/2" L. 38c

PHONO NEEDLES
③ Hard Steel Phono Needles. Standard straight shank type used in all phono needle test prods. No. 24B333. Pkg. of 25 **25c**
④ Test Lead Wire—Non-kink flexible wire with live rubber insulation. 5000 volt breakdown. No. 2A421. 7' Red and 7' Black 95c
No. 2M64. 25' Red or Black **\$1.38**

SAFE-T-KLIP

Nylon insulated, safe operation to 600 volts. Insulation covers outside of clip thoroughly protecting against accidental shorts or contact with power leads. Packed in pairs—1 Red and 1 Black.

For lead wires. Provision for mechanical or solder joint with test wires. Strain relief built-in. 2 1/4" long. No. 35A8003. Industrial Devices B1410A. Per Pair **\$1.49**

For Banana Plugs. Positive electrical contact 2 1/4" long. No. 35A8004. Industrial Devices B1410C. Per Pair **\$1.29**

For Test Prods. Accepts standard .08 test prod. Positive electrical connection 2 1/4" long. No. 35A8005. Industrial Devices B1410B. Per Pair **\$1.39**

STORAGE CABINETS FOR EVERY NEED



**ARGOS
TUBE
CADDIES**

① **CARRY-ALL TUBE CADDY.** Most popular Tube Caddy ever made. Break away design gives quick access to all sections. Holds up to 262 tubes less with tools and meters. New "stop hinges" give fold out sections greater strength when open. New metal corners and knees. Durable, new grey vinyl covering. Size: 21" W. x 15" H. x 8" D. Shpg. Wt. 11 lbs. No. 37A8047. Model TC-400. Each..... **\$23.95**

② **TUBE CADDY JUNIOR.** Smaller, easy-to-carry size. Holds up to 143 tubes less with tools and meter. Durable, new, grey vinyl covering. Size: 15 3/4" W. x 12 1/2" H. x 8" D. Shpg. Wt. 7 1/4 lbs. No. 37A8046. Model TC-200. Each..... **\$15.95**

PROFESSIONAL QUALITY TOOL BOXES

TWO DRAWER TOOL CHEST

\$17⁴⁵



Spillproof safety stops on drawers. Heavy gauge cold rolled steel. Electronically welded seams. Full weather-protection. Nickel-plated hardware, drawbolt can be padlocked. Full length welded hinge. Drawers automatically lock when cover is closed. Charcoal enamel, red drawers.

Size Overall: 20 1/2" long, 8 3/4" wide, 10 1/4" high; Till, 20 1/2" L. x 8 3/4" W. x 3 1/8" deep, exclusive of cover; 2 drawers, each 18 3/4" L. x 7 7/8" W. x 2 1/2" D. Shpg. wt. 16 lbs. No. 37A9568. Union Steel MT-2. Each..... **\$17.45**

TOOL BOX WITH REMOVABLE TRAY

Finest quality steel with two bolt catches; built-in padlock eye; rust-proof handle. Full lock-seamed construction, rounded reinforced corners. Continuous welded hinge with lid opening entirely back. Charcoal grey with red tray. Handy Tote Tray, 21 1/2 x 8 1/2 x 1 1/2". Overall size 22 x 9 x 8". Wt. 12 lbs. Union Steel 6122. No. 37A8011. Each..... **\$11.95**



UTILITY BOX
Handy for carrying tools on the job. Automatic retracting tray. Seamless waterproof construction with rounded corners, embossed reinforcement on both cover and bottom. Hard baked enamel finish. Size 14 1/2" L. x 7 1/4" W. x 6" H. Shpg. wt. 4 lbs. Union Steel 5314. No. 37A231. Each..... **\$4.45**

CLEAR POLY JARS WITH LINED METAL LIDS

Heavy gauge shatterproof polystyrene affording years of re-usable service. Ideal for storage of miscellaneous hardware and parts.

Stk. No.	Size	Wt.	Each	10 For	50 For
37A8032	2.2 Oz. Jar	1 oz.	15c	\$0.99	\$4.45
37A8033	4.6 Oz. Jar	1 1/2 oz.	18c	1.38	6.12
37A8034	8 Oz. Jar	2 oz.	25c	1.83	8.15

PORTABLE "VACU-VISE"

**SUPER SUCTION
BASE HOLDS VISE
IMMOVABLE
ON SMOOTH
SURFACES...
EVEN
VERTICALLY**

\$9⁹⁵

**NOW INCLUDES SET
OF RUBBER JAWS**

Most convenient, versatile vise ever made! It's like having a third hand anywhere on the job, right where you need it. Just a finger-tip turn of the Vacu-Lever holds vise firm and fast to workbench, table top—even vertically on the wall. Simply turn lever to release. Ideal for hobby work, shop, home, school, etc. Large 2 1/2" jaws of hardened steel have work holding "V" grooves, open to 2 1/2". Rubber jaws insert between steel jaws for holding delicate work without marring. Shpg. wt. 3 lbs.

No. 37B375. Each..... **\$9.95**

raaco

SMALL PARTS STORAGE CABINETS



A flexible,
easy-to-arrange
storage system.



Quality Construction. Arrange exactly where you need them... singularly or built together. Place on a table, wall mount, or stack. Everything is within reach, easy to get to. Crystal clear see-thru unbreakable drawers, with backstops and slots for labels. Sub-divide with dividers. Frames, heavy gauge, welded and primed against rust. Double coat baked-on enamel. Shelves have glides. Dividers and index cards are included. Drawer size: 1-3/8" H. x 2 1/2" W. x 5-5/16" D.

Stock No.	RAACO No.	No. of Drawers	Cabinet Size	Wt.	Each
① 37A9569	030.01	12	5 1/2" x 12" x 5 3/4"	4 lbs.	\$4.00
② 37A8060	040.01	16	7 1/2" x 12" x 5 3/4"	5 lbs.	5.00
③ 37A8061	060.01	24	11" x 12" x 5 3/4"	8 lbs.	7.00
④ 37A8062	090.01	36	16 1/2" x 12" x 5 3/4"	10 lbs.	10.00
⑤ 37A8063	120.01	48	22" x 12" x 5 3/4"	13 lbs.	13.00

CABINETS WITH A COMBINATION OF LARGE AND SMALL DRAWERS

Stand or hang in any combination with above.
⑥ 15 Drawer Cabinet. Size: 11" H x 12" W x 5 3/4" D. Deep. Has 12 drawers 1-3/8" H x 2 1/2" W x 5-5/16" D.; 2 drawers 2 1/4" H x 5-5/16" W x 5-5/16" D. and 1 drawer 2 1/4" H x 11" W x 5-5/16" D.
No. 37A8064. RAACO No. 060.19. 7 lbs. Ea. \$7.00
⑦ 30 Drawer Cabinet. Size: 22" H x 12" W x 5 3/4" D. Has 24 drawers 1-3/8" H x 2 1/2" W x 5-5/16" D.; 4 drawers 2 1/4" H x 5-5/16" W x 5-5/16" D.; and 2 drawers 2 1/4" H x 11" W x 5-5/16" D. Shpg. wt. 13 lbs.
No. 37A8065. RAACO No. 120.20. Each . \$13.00

CABINETS WITH DEEP DRAWERS

⑧ 16 Drawer Cabinet. Size 22" H x 12" W x 11" D. Drawer size 2 1/4" H x 5-5/16" W x 11" D. Shpg. wt. 18 lbs.
No. 37A8066. RAACO No. 240.09. Each . \$25.00
⑨ 12 Drawer Cabinet. Size: 22" H x 12" W x 11" D. Drawer size: 3-3/8" H x 5-5/16" W. x 11" D. Shpg. wt. 20 lbs.
No. 37A8067. RAACO No. 240.10. Each . \$25.00

EXTRA DRAWER DIVIDERS

Stock No.	RAACO No.	Package Quantity	Description
37A8068	64/35	48	Full width for 1-3/8 x 2 1/2 x 5-5/16" Drawer
37A8069	135/57	12	Full width for 2 1/4 x 5-5/16 x 5-5/16" Drawer
37A8070	67/57	24	1/2 width for 2 1/4 x 5-5/16 x 5-5/16" Drawer
37A8069	135/57	12	Full width for 2 1/4 x 11 x 5-5/16" Drawer
37A8070	67/57	24	1/2 width for 2 1/4 x 11 x 5-5/16" Drawer
37A8071	275/57	6	Lengthwise for 2 1/4 x 11 x 5-5/16" Drawer
37A8072	135/79	8	Full width for 3-3/8 x 5-5/16 x 11" Drawer
37A8073	67/79	16	1/2 width for 3-3/8 x 5-5/16 x 11" Drawer
37A8074	275/79	4	Lengthwise for 3-3/8 x 5-5/16 x 11" Drawer

CHOICE - PER PACKAGE \$1.50

HIGH QUALITY, LOW COST TOOLS



Adjustable Circle Cutter. Adjusts from 7/8" to 4". For cutting round holes in metal, wood, plastic. Import. 37A9545. Each **99c**



Tubing Cutter. For cutting copper, brass, aluminum tubing up to 1" dia. Quality import. Wt. 1 lb. 37A5550. Each **99c**



Flaring Tool. Flares copper, brass and aluminum tubing from 3/8" to 3/2". Quality import. Wt. 1 1/2 lbs. 37A5551. Ea. **\$1.89**



Drum Rasp. Hardened and tempered steel. Won't clog, remains sharp. 3/4" shaft, 3/4" dia. x 1 1/2" long. 37A9547 Each **99c**



3 Piece Mounted Stone Assortment. Top quality industrial quality stones. With 3/4" shanks. 37A9548 **\$1.29**
Special



7 Blade Holesaw. Blades made of tempered and hardened steel. Fits electric drill. Import. 37A9544. Each **99c**



Miniature Screwdriver Kit. 6 sizes from 1/32" to 3/16" blade. Swivel tops. Wt. 8 ozs. Finest import. 37A848. Each **\$1.14**



Wire Bending Jig. Forms wire sizes to 1/4" dia. Instructions and project diagrams included. Wt. 1/2 lb. 37A5840. Each **99c**



Screw Extractor Set. Easy removal of broken screws. Tempered steel. 5 sizes: 1/8 to 3/4" dia. Wt. 6 ozs. Import. 37A8322. Each **99c**



Slip Joint Combination Pliers. Hot drop forged, heavily chrome plated, mirror polished. Quality import. 37A850. Each **99c**



Nutdriver Set. Sizes: 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1 1/8" and 1 1/4". With wall bracket. Wt. 1 lb. 37A704. Set **\$3.59**



100 Pc. Spring Assortment. Compression, tension and torque types. Many sizes. 12A1013. 100 Asst. **89c**



8" Long Nose Pliers. With side cutters. Polished head, milled jaws. Import. Shpg. wt. 5 ozs. 37A838. Each **\$1.59**



9" Diagonal Cutters. Tempered and hardened. Polished and ground heads. Import. Wt. 7 ozs. 37A839. Each **\$1.59**



6 Ft. Siphon Pump. Check valves give smooth pumping action. Polyethylene. Import. Wt. 1/2 lb. 37A5541. Each **99c**



4-C" Clamp Set. Contains one 2 1/2" and two 1" clamps. High quality malleable steel. Import. 37A3228. Set **99c**



Drill and Countersink Set. Sizes 4-5, 6-7, short 8-9, long 8-9, 10-12. 37A9582 Set of 5 **\$1.99**



Multi-Snip. A heavy duty cutter cuts wire, steel, metals, plastics. 5" long with insulated handle. No. 37A976. Each **\$2.49**



2 Piece Magnifying Glasses. Fine quality lenses. Black plastic handles. 2 sizes. Import. 37A3332. Set **99c**



Disc-Rasp. Fits electric drill. 5" bottom surface. Never clogs or needs sharpening. Wt. 6 ozs. 37A9524. Each **\$1.19**



Wood Chisel Set. Includes 1/2", 3/4" and 1". Hardened and tempered steel. Made in U.S.A. 37A3329. Pet Set **99c**



Contour Gauge. Outlines any shape, measures, duplicates and checks. 6" long. 37A9549. Each **\$1.99**



Button Type Magnet. Small but powerful. Approximate holding power 4 lbs. 372-B. 37A3340. Ea. **99c**



Hack Saw Pistol Grip. Adjustable frame. With 10 inch blade. From Japan. 37A9338. Each **99c**



8 Oz. White Rubber Mallet. Top quality solid white rubber will not mar. Rubber handle. Import. 37A896. Ea. **99c**



Revolving Hole Punch. Tempered steel. Six punching sizes. Quality import. 37A3330. Each **\$1.39**



Tap Set. Contains 6-32, 8-32, 10-32, 1/4 - 24, and 1/2 - 20 taps and tap wrench. 37A3335. Per Set **99c**



6 Pc. Screwdriver Set. 4 slotted, stubby slotted and #1 Phillips. Vinyl grip. Made in U.S.A. No. 37A897. Per Set **\$1.19**



36 Inch Flexible Shaft. Operates off motor or electric drill. Quality import. Wt. 1 1/2 lbs. 37A9500. Each **\$2.69**



9 Piece Screwdriver Set. Contains: Phillips, slotted, an awl, screw punch, master handle, vinyl case. 37A893. Each **\$1.95**



1/4" Wheel Arbor. 1/2" threaded shaft holds buffing wheels, wire brushes, grinding wheels. Wt. 6 ozs. 37A9528. Each **59c**



4 Inch Wire Wheels. 1/2" center hole. 37A9532—Coarse. 37A9533—Fine. Choice **\$1.09**



Drill Stand. Holds electric drill securely. Fits 1/4 and 3/8" drills. Wt. 4 ozs. 37A9529. Each **\$1.19**



7 Power Eye Loupes. Jewelers type. Wonderful for any miniature work. 37A5507. Each **87c**



6-Piece Power Bit Set. Contains 6 sizes: 3/8, 1/2, 5/8, 3/4, 7/8 and 1". Round 1/4" shanks. 37A9525. Set **88c**



Knife and Scissors Sharpener. Use with any electric drill or bench motor. 1/4" shank. 37A9530. Each **\$1.19**



Lawnmower Sharpener. Fits any 1/4" drill. Will sharpen any rotary lawnmower blade. Wt. 8 ozs. 37A9014. Each **99c**



Adjustable Wire Stripper. For solid or stranded wire from #6 to smallest. Hardened ground steel blades. 37A702. Each **\$1.40**



Safety Eye Shield. Lightweight, clear plastic. Ventilated. Fit over glasses. Wt. 1/2 lb. 37A3003. Each **99c**



18 Piece Hex Key Set. Cadmium plated hardened steel. 18 wrenches .050" to 3/4". No. 37A974. Per Set **99c**



Electronic Drafting Template. Symbols of all kinds of components. 9 1/2 x 5 1/2". 37A5508. Ea. **\$2.95**



Twist Drill and Tool Sharpener. Fits any electric drill. Sharpens bits, scissors, knives. 37A9002. Each **\$2.99**

TOOL SPECIALTIES

ASTRO 3/8 INCH LABEL MAKER

MAKES PROFESSIONAL SELF-ADHESIVE LABELS

\$3.99



Simple to use and built to last. A single lever prints, spaces and cuts labels. Last letter printed appears instantly, reduces mistakes. Prints 12 symbols (period, comma, etc.) in addition to alphabet and numbers. Cuts tab for removing label backing. Order easy loading cartridge below. Shpg. wt. 1 lb.

No. 37A7509. Label Maker. Each **\$3.99**

No. 37M7708. Tape for above. 3/8" X 12 ft. Specify Color: Black, Red, Blue, Green or Gold. Per Roll 79



13 PIECE SCREWDRIVER AND NUTDRIVER SET

Large grip handle with 4" extension shaft, 2 slotted and 2 Phillips screwdriver blades, 3/16", 3/8", 1/2", 5/8", 3/4", 13/16", 1/2" nutdriver. Quality drop-forged, hardened and tempered alloy steel. Nickel chrome plated. Shockproof plastic handle with unbreakable see-thru case. Quality Import.

No. 37A972. **\$4.95**
Per Set



EXTERNAL SIGHTS FOR FASTER, MORE ACCURATE OPERATION

PRECISION SPLIT IMAGE TRANSIT

One man can do leveling and incline measuring accurate to a fraction of an inch. Prism-like optical system. Simplified calibration system for patio and terracing, foundation work, irrigation, drainage, masonry, antenna installation, etc. Wt. 2 lbs.

No. 37A5519. Each **\$7.95**
No. 37A5520. Carrying Case...\$3.95

BINOCULAR MAGNIFIER



Large lens area for depth and clarity. Greatly magnifies work, gives natural 3 dimension vision. Greatly reduces eye strain, may be worn over regular glasses. Optical glass lenses ground and polished to precision standards. Dial adjustment continuous headband. Swivels up out of way when not in use. Net wt. 4 ozs. Shpg. wt. 1/2 lb. made in U.S.A.

37A5562-1 1/4 Power, 14" Focal Length
37A5561-2 1/2 Power, 8" Focal Length
CHOICE **\$14.95**

OPTILOUPE MAGNIFIER easily attaches to either eye of magnifier, adds 2 1/2 power for monocular use. No. 37A5563. Each.....\$3.00

HELIX WRENCH

\$9.95



Newest concept in open end adjustable wrench. Precision made. Instantly adjustable. Self Locking. Solid stainless steel body & jaw. Stronger than ordinary type adjustable wrench and much simpler to use. 8" long. Shpg. wt. 2 lbs.

No. 37A998. Each **\$9.95**

ENGINEERED FOR THE REAL MECHANIC

10 PIECE 3/8 INCH DRIVE SOCKET SET

\$10.48



Deluxe quality heavily chrome plated. Heavy duty drop forged ratchet. Contains 7-12 point sockets: 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1, 1-1/2" reversible ratchet handle, 1-3" extension bar and 1 spark plug socket. Convenient molded plastic case. High quality import from Japan.

No. 37A892. Each..... **\$10.48**

ELECTRIC GLUE GUN

ONE MINUTE FIXING AND FASTENING TOOL

\$4.99



MAKES SUPER-STRENGTH WATERPROOF BONDS IN ALMOST ANY MATERIAL

Permanently bonds in just 60 seconds: wood, plastic, fabric, leather, metal and many other materials. Uses unique hot-melt solid glue and sealer sticks—never dries out, no bottles or tubes to leak. White sealer sticks provide instant-set, water-proof caulking around bathtubs, shower stalls, etc. With 4 glue sticks, 3 sealer sticks. Operates on 115 V. AC. Shpg. wt. 1 1/2 lbs.

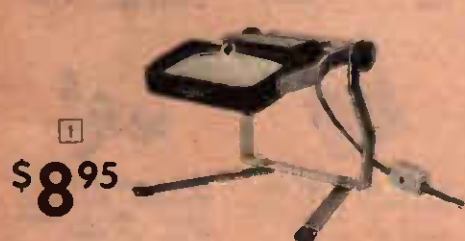
No. 37A5521. Each **\$4.99**
No. 37A5553. Thermogrip Glue Sticks. Package of 14.....65c
No. 37A5548. Thermogrip Glue Sticks. Box of 60.....\$2.12
No. 37A5554. Thermogrip White Sealer Sticks, Package of 14.....65c



NEW, IMPROVED BRASS, NICKEL PLATED DRAFTING SET

Engineers quality, made in Germany. Plastic case with magnetic lock. Contains 4 3/4" compass with pen, pencil and needle parts, 4 3/4" divider, one each 3 3/8" spring bow pencil, spring bow pen, divider, screwdriver, extra handle, parts, etc. No. 37B175
Per Set..... **\$5.95**

SMALL JOBS GO EASIER... FASTER... WITH INSPECTION MAGNIFIERS



\$8.95

① ADJUSTABLE ILLUMINATED MAGNIFIER

Ideal for laboratories, industry, schools or hobby use. A must for repairing printed circuits or wiring punch boards. 2" x 4" rectangular magnifier adjusts from 1" to 6" high. 7 watt 110 V lamp puts plenty of light right on the work. Lightweight aluminum stand folds compactly for easy storage. Both lens and lamp can be adjusted separately to proper height and visual range. Shpg. wt. 1 1/4 lbs.

No. 66A9009. Net Each **\$8.95**



\$1.95

② BAUSCH & LOMB POCKET MAGNIFIER

1001 uses in the home, office, school, shop, lab, service bench. Lens made of same fine quality as above. Crystal clear, no distortion or aberration. Folds down into its own plastic case when not in use. Shpg. wt. 4 oz. No. 66A9007.

Net Each **\$1.95**



\$11.95

③ BAUSCH & LOMB ILLUMINATED RECTANGULAR READER

This crystal clear reader utilizes BGL's unique ophthalmic glass, ground and polished with the same care as a prescription eyeglass lens. Light weight, balanced design for long, tireless use. Miniature 110 Volt bulb floods the reading area with light. Can be used for circuit inspection of P.C. boards under chassis. Also for reading schematic diagrams and parts list. Lens size is 3 3/8" x 2". With 9" focus. Ebony color.

No. 66A9005. Wt. 1 lb, Net Each..... **\$11.95**
No. 66A9006. Reader as above less illumination. Net Each.....\$5.95



\$8.69

④ FULLY ADJUSTABLE 4-INCH INSPECTION MAGNIFIER

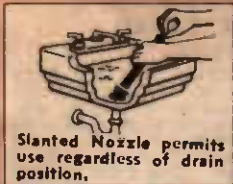
A powerful ground and polished lens 4" dia. mounted on a chrome plated goose neck arm. Ball joint swivel permits easy positioning. Sturdy cast iron base for table or bench use. Shpg. wt. 3 1/2 lbs.

No. 66A9010. Net Each..... **\$8.69**

OUTSTANDING B-A VALUES

GUARANTEED TO UNCLOG SINKS
... FAST AND EASY!

SINKMASTER



Slanted Nozzle permits use regardless of drain position.

Unclogs sinks the fast, easy way ... without harmful chemicals. Also handy for wash tubs, laundry tubs, bath tubs ... plus many, many other uses. New, modern hydraulic Sinkmaster gives instant up to 70 pound pressure with each stroke ... greater pressure than out-moded hand plunger. Sinkmaster will last a lifetime and out-do 1000 plungers! Specially treated to eliminate rusting and corrosion.

No. 37A5564. Shpg. wt. 1 lb. Each \$4.98

SEALED BEAM FLASHLIGHT



Giant 4-cell. Long range auto headlight beam. Uses GE # 4546 sealed beam unit. Chrome with aluminum. Uses 4 "C" cell batteries.

No. 37A3326
Each \$5.40

HAND TALLY COUNTER

Dial advances one digit when actuated. Counts to 9,999. Knob resets to zero. Chrome case 1 1/4" dia. X 1 1/2" thick. Quality import.

No. 37A5567
Each ... \$3.25



SCOTCH VINYL PLASTIC ELECTRICAL TAPE

Super-tough and stretchy — this famous Minnesota-Mining Product carries full UL approval.

Scotch No. 33. Black vinyl plastic molds to any surface, remains flexible at low temperature. Resistant to grease, acids, alcohols, water, gasoline, etc. Non-corrosive. Has high tensile strength, 7 mills thick. Dielectric strength 10,000 V. breakdown.

No. 17A7000. 66 Ft. x 3/4" Wide
Roll \$1.40 10 Rolls \$1.16
Each Each

17A7001. 20 Ft. x 3/4" Wide Roll... 53c
17A7002. 20 Ft. x 3/4" Wide Roll... 33c

Scotch All-Weather Plastic Electrical Tape No. 88. Makes splice wrapping in cold weather easy, yet retains its excellent body for smooth and easy application at normal temperatures. 8.5 mills thickness, super-tough—abrasion, oil, acid and flame resistant. Remains pliable at temperatures down to 0° F. 9350 volts electric strength.

No. 17A7003. 66 Ft. x 3/4" Wide
Roll \$1.71 10 Rolls \$1.42
Each Each

No. 17A7004. 20 Ft. x 3/4" Wide
Roll, Each... 64c 10 @ Ea... 53c

Scotch All-Weather Plastic Electrical Tape No. 88. Makes splice wrapping in cold weather easy, yet retains its excellent body for smooth and easy application at normal temperatures. 8.5 mills thickness, super-tough—abrasion, oil, acid and flame resistant. Remains pliable at temperatures down to 0° F. 9350 volts electric strength.

No. 17A7005. 60 Yds. 3/4" Wide
Roll, Each... 98c 12 Rolls, Ea... 89c
No. 17A7006. 60 Yds. 1" Wide
Roll, Each... \$1.39 12 Rolls, Ea... \$1.25
No. 17A7007. 60 Yds. 1 1/2" Wide
Roll, Each... \$1.98 12 Rolls, Ea... \$1.78



SCOTCH TAPE

Completely transparent. Invisible in use.

810. 1296" Roll 1/2" Wide.
17A7041 94c 12 Rolls 85c
Per Roll Each

810. 1296" Roll 3/4" Wide.
17A7042 \$1.25 12 Rolls \$1.13
Per Roll Each

Dispenser for 1296" Rolls
No. 17A7035. Each 29c

810. 2592" Roll 1/2" Wide.
17A7043 \$1.51 12 Rolls \$1.36
Per Roll Each

810. 2592" Roll 3/4" Wide.
17A7044 \$2.07 12 Rolls \$1.86
Per Roll Each

Scotch Cellophane Tape
1296 Inch Roll 1/2" Wide, fits the handy dispenser illustrated.

17A7034. 65c 12 Lots, 59c
Per Roll Each

Dispenser
No. 17A7035. Each 29c

2592 Inch Roll 1/2" Wide.
17A7036. 90c 12 Lots, 81c
Each Each

2592 Inch Roll 3/4" Wide.
17A7037. \$1.31 12 Lots, \$1.18
Each Each

SCOTCH MASKING TAPE. Avg. wt. 10 oz.

No. 17A7005. 60 Yds. 3/4" Wide
Roll, Each... 98c 12 Rolls, Ea... 89c

No. 17A7006. 60 Yds. 1" Wide
Roll, Each... \$1.39 12 Rolls, Ea... \$1.25

No. 17A7007. 60 Yds. 1 1/2" Wide
Roll, Each... \$1.98 12 Rolls, Ea... \$1.78

MODEL BC-15



DURACELL BATTERY CHARGER

Designed specifically for charging Duracell Rechargeable Alkaline Batteries. Charges 2 or 4 batteries in any pair (2 of same size) combination. Indicator light shows batteries are charging. Recharges overnight. For 115 VAC operation. Minimum power consumption. Less batteries.

No. 13A8022. Each \$8.95

MALLORY RECHARGEABLE ALKALINE BATTERIES			
21A230 SA13D Replaces D Cell.	Each.....\$1.49	6 @ Ea.....\$1.17	
21A231 SA14C Replaces C Cell.	Each..... 1.28	6 @ Ea..... 1.00	
21A232 SA15AA Replaces AA Cell.	Each..... .85	4 @ Ea..... .65	

SAVE ON BATTERY COSTS!

PREMIUM PANASONIC HI-TOP BATTERIES



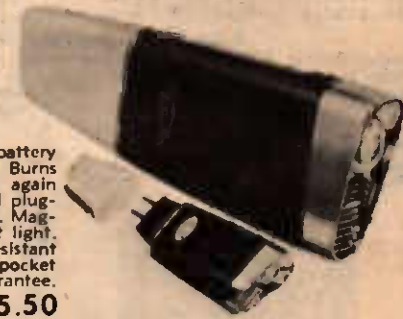
GIVE UP TO 4 TIMES THE LIFE OF AMERICAN MADE NAME BRAND BATTERIES

An independent testing company report shows they last up to 4 times longer than American made name brand batteries. Three year shelf life. Absolutely the finest zinc carbon battery we have offered.

Stock No.	Panasonic No.	Description	Each
21A333	UM1D	D Cell	29c
21A334	UM2D	C Cell	29c
21A335	UM3D	AA Pencil	25c
21A336	006PD	9 Volt Transistor	65c

RECHARGEABLE FLASHLIGHT

\$5.50



Powered by Nickel Cadmium battery pack. Never needs replacing. Burns brightly for hours, recharges again and again by removing cap and plugging into any 110 V. AC outlet. Magnifying lens provides a brilliant light. Handsome, contoured shock resistant plastic case. Small size fits in pocket or purse. 2-year written guarantee. Wt. 8 ozs.

No. 37A3054. Special Ea..... \$5.50

EVEREADY RECHARGEABLE FLASHLIGHT

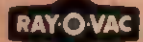
\$12.95



Most Powerful Light of its size. Twice the light of a standard 2-cell flashlight. Sleek black case. Never needs batteries ... contains powerful, long, lasting rechargeable nickel cadmium batteries. Holds a charge (when not in use) for over a year. Provides over an hour of continuous, strong, bright light per charge. Can be recharged for years from any 120 V. AC household outlet. One year warranty.

No. 37A3277. Eveready 3300. Special Each \$12.95

NICKEL CADMIUM BATTERIES AND RECHARGER



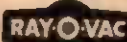
Recharge up to 1000 times to last 3 years or more under normal use when recharged regularly. Replaces all regular batteries in 1.5 volt applications. Use Model CH666 listed below to recharge batteries.

21A5076. Size "D" 1.0 Amp. Hr. Battery. Wt. 6 ozs. Pkg. of 2, Ea. \$5.98
21A5077. Size "C" 1.0 Amp. Hr. Battery. Wt. 5 ozs. Pkg. of 2, Ea. \$5.98
21A5078. Size "AA" Pencil .5 Amp. Hr. Battery. Wt. 2 ozs. Pkg. of 2, Ea. \$5.98

Recharge two, four, or six batteries at the same time. Insert pairs of same size, close cover and recharge batteries in 12-16 hours. Batteries can be charged for long periods of time without damage. Recommended for use only with nickel cadmium batteries. Size: 9 1/2" x 4 1/2" x 2 1/2". Wt. 2 lbs. For 110/120 VAC.

11A8046. Model CH666 Charger. Each \$9.95

SPORTSMAN FLUORESCENT LANTERN



360 Illuminated. Wide even light. Safe to use and operate. Solid state circuitry gives long lasting operation with 4 easy to obtain 6 volt lantern batteries. 4 bulb settings: both high, both low, 1 high, or 1 low for extended battery life. Uses standard F675 CW bulb. Shpg. wt 10 lbs.

No. 41A8066. Model 360-5 with batteries
Each \$29.95

No. 21A345. 944 Heavy Duty Lantern Battery
Each \$1.69

ELECTRICAL SPECIALTIES

FULL RANGE DIMMER CONTROL

JUST TURN DIAL FOR DESIRED LIGHT LEVEL BETWEEN FULL BRIGHTNESS TO OFF... PUSH DIAL FOR "ON-OFF" AT PREDIALED SETTING.

\$6.95

Have subdued lighting for glamour, TV, during sleeping or convenience in any room. Dependable solid state diodes smoothly control flow of power to incandescent light fixtures. Permits full brightness or dim as desired. Simple to install, wired in existing switch in standard wall box. For 115 V. 60 Hz. AC. 600 W. capacity. Wt. 1 1/2 lb. **\$6.95**

LEVITON FULL RANGE DIMMER SOCKET

Solid state electronic socket replaces standard lampholder. Transforms ordinary lamps into sophisticated light-conditioning dimmer lamps. Filter minimizes interference with radio/TV. Rated 150W-120V AC incandescent only. No. 41A428. Leviton 6151. **\$4.99**

LEVITON LINE CORD SWITCHES



① LEVITON FULL RANGE DIMMER

Add full-range variable light control to your lamps. An exciting way to Light-Condition-create a mood for any room. Eliminates expensive 3-way bulbs. Offers fast, easy assembly. U.L. recognized solid-state electronic components. Rated 200W-120VAC incandescent. No. 41A431. Leviton 6250-3. Brown. Choice **\$4.99**
No. 41A436. Leviton 6350-31. Ivory. Each

② LEVITON HI-LO DIMMER

Low cost light control—two lighting moods from an ordinary bulb. Full-bright for reading and writing, low-bright for relaxing and TV viewing. Kwik-Wire contact pins offer fast, low cost assembly without stripping. U.L. Listed at 300W-120VAC. No. 41A430. Leviton 419. Brown. Choice **\$1.39**
No. 41A435. Leviton 4191. Ivory. Each

③ LEVITON MINIATURE CORD SWITCH

Smart styling, Kwik-Wire contact pins for fast connections without stripping. U.L. Listed at 3A 125V. No. 41A434. Leviton 4131. Ivory. Choice **39c**
No. 41A429. Leviton 413. Brown. Each

gel/cell



① GEL/CELL RECHARGEABLE BATTERIES

Combine the power and rechargeability of wet batteries with the handling ease of dry batteries. Gelled electrolyte will not ooze out. Never add water or electrolyte. 200 to 500 complete charge/discharge cycles. Lose very little capacity in storage. Use in any position. Operating temperature range—76° F to +140° F. Rated @ 68° F. High impact polystyrene case. Combination solder lug/quick disconnect tab terminals. B series batteries listed are for general service. For continuous charge float service the same type batteries at the same prices are available with suffix A. A types give somewhat longer life on float service but are not recommended for general service. Specify A instead of B for float service types and allow 2 extra weeks for delivery.

Stock No.	Mfg. No.	Amp-Hours @ 20 Hr.		Size	Shpg. Wt. lbs.	Each
		Rate	Voltage			
21A5070.	CC 610-1B	9	6	2" WX 2.24" HX 1.65" D	.6	\$6.85
21A5071.	CC 1215-1B	1.5	12	7.02" WX 2.65" HX 1.33" D	1.9	13.47
21A5072.	CC 626-1B	2.6	6	5.28" WX 2.63" HX 1.33" D	1.3	10.29
21A5073.	CC 1245-1B	4.5	12	5.95" WX 4.02" HX 2.52" D	4.5	19.45
21A5074.	CC 680-1B	7.5	6	5.96" WX 3.97" HX 1.97" D	3.3	15.25

② GEL/CELL RECHARGEABLE POWER PACKS

Consist of battery carrying case with shoulder strap and battery charger with cigarette lighter plug. 7.5 A.H. 20 hr. rate at 12 volts. Size: 6 1/2 x 6 x 4 1/2. Shpg. wt. 8 lbs. No. 21A5075. **\$37.46**

Other Gel/Cell batteries and power packs available on special order. For complete specifications and recharge information order **50c**

LEVITON BULB-LIFE SAVER SOCKET ADAPTER



Fits any medium base lampholder. Reduces light output by approx. 50%, but wattage can be restored as needed by substituting a larger bulb. Electricity consumed is reduced proportionately. Increases bulb life more than 30 times. Cuts bulbs changing 95%. Saves money where bulbs burn continuously. All brass components for corrosion resistance. Will extend lamp only 1 1/4" from original position. Rated 150W-120V AC incandescent only. UL Listed. No. 41A432. Leviton 6154. **\$1.49**

LEVITON 3-WAY TO HIGH-LOW SOCKET ADAPTER

Screw into any 3-way lamp socket. Screw lamp bulb into the high-low adapter. You get high-low light control with standard bulbs—up to 200 watts in any 3-way lamp socket. Eliminates the need for expensive 3-way bulbs. Extends bulb life—saves electricity. Extends lamps only 1 1/4" from original position. Rated 200W-120V AC. Incandescent only. UL Listed. No. 41A433. Leviton 6153. **\$1.49**



COOL FLUORESCENT LIGHTING FOR BROAD AREAS

U/L approved components throughout, heavy steel bodies finished in baked white enamel and removable covers to permit easy installation. 40 watt is rapid start, others require starter switches. With Lamp—Specify Daylight, Cool White or Warm White.

Stk. No.	For Lamp	Channel Size	Weight	Net Ea.	3 @ Ea.
41M8017	15-Watt, 18"	2x2 1/2" W.	4 lbs.	\$3.95	\$3.55
41M8018	20-Watt, 24"	2x2 1/2" W.	5 lbs.	4.40	3.95
41M8005	40-Watt, 48"	2x2 1/2" W.	10 lbs.	8.75	7.85



RAPID START DOUBLE-40 PLUG-IN UNIT

Top efficiency, portable illumination—quickly installed or moved. Two 40-watt lamps spaced 5" apart in full 13" wide reflector. U/L approved components. Hanging brackets on each end. Super-white reflecting surface. 4 1/2" L x 1 3/4" W x 6" D. Wt. 21 lbs. 6' cord and plug. Complete with your choice of 40-watt lamps. No. 41A8006. Each **\$14.95** 3 @ Each **\$13.50**

SYLVANIA ELECTRIC



FLUORESCENT LAMPS



Regular start (for fixtures with starters). Available in DAYLIGHT; COOL WHITE (4500° White); WARM WHITE. **CIRCLINE LAMP**

Day-light Stk. No.	Cool White Stk. No.	Warm White Stk. No.	Rated Lamp Watts	Net Wt.	Net Ea.	Lots of 6 Lamps Each	Lots of 24 Lamps Each
41A8019	41A8021	41A8023	15	8 oz.	\$1.50	1.43	\$1.29
41A8020	41A8022	41A8024	20	8 oz.	1.40	1.33	1.19
41A8008*	41A8009*	41A8010*	40	1 lb.	1.35	1.28	1.15

CIRCLINE FLUORESCENT LAMPS

12" Dia.	8" Dia.	Stk. No.	Rated Lamp Watts	Net Wt.	Net Ea.	Lots of 6 Lamps Each	Lots of 24 Lamps Each
		41A8025	32	1 lb.	4.55	4.32	3.89
		41A8026	22	1 lb.	4.20	3.99	3.59

SYLVANIA FLUORESCENT STARTER SWITCHES

No.	Type	For Lamp	Net Ea.	10 @ Ea.	50 @ Ea.
41A353	FS-2	14, 15, 20-watt	\$0.32	\$0.29	\$0.26
41A354	FS-4	13, 30, 40-watt	.32	.29	.26
41A355	FS-5	4, 6, 8, 22, 25-watt	.48	.43	.39
41A356	FS-12	32-Watt Circline	.35	.31	.28

OUTDOOR REFLECTOR LAMPS



Sylvania PAR-38. Weatherproof spot or floodlamp. Built-in silvered reflector, skirted standard screw base. 120 volt. Wt. 2 lbs. No. 41A6004. 75 W. Spot Choice **\$2.40** 12 Each **\$2.16**
No. 41A6005. 75 W. Flood Each **\$2.40** 12 Each **\$2.16**
No. 41A6006. 150 W. Spot Choice **\$2.21** 12 Each **\$2.45**
No. 41A6007. 150 W. Flood Each **\$2.21** 12 Each **\$2.45**



REPLACEMENT APPLIANCE ELEMENTS

① 115 VOLT COILED NICHROME WIRE ELEMENTS
Finest quality, for repair of Hot Plates, Toasters, Heaters. Shpg. wt. 2 oz. No. 41A341. 600 W. #3, 3/8" dia. coil. Net Ea. 42c 10 @ Each. 38c
No. 41A342. 1000 W. #7, 1 1/8" dia. size 20. Net Ea. 82c 3 for \$2.10

② NICHROME COILED ELEMENT WIRE
Wattage length rating on each spool. Use #2 for repair of light duty appliances, #3 for hot plates, #4 for 1000 W. appliances. Shpg. wt. 6 oz.
Stk. No. Description Net Ea. 3 @ Ea.
41A343 12 Ft. #2—Size 22, 3/8" dia. coil. \$3.90 \$3.32
41A344 10 Ft. #3—Size 22, 3/8" dia. coil. \$5.20 \$4.42
41A345 10 Ft. #4—Size 20, 1/2" dia. coil. \$7.40 \$6.29

③ 1000 WATT CONE HEATER ELEMENT—Shpg. wt. 6 oz. No. 41A346. Standard 115 V. screw base. Net Each. \$1.56 10 @ Each. \$1.40

ELECTRICAL WIRING DEVICES & CORDS

U/L ATTACHMENT PLUGS AND CURRENT TAPS



First quality U/L approved devices for home, shop or commercial use. Bakelite items are furnished in brown only. When ordering other items specify color choice where given. Avg. shpg. wt. 2 oz. (Fig. 10 Recept. 8 oz.)

Stk. No.	Description	Each	10 For
① 41M300	Black, Brown or Ivory Vinyl Cap Sta-tite brass blades, screw terms.	\$0.25	\$1.80
② 41M301	Black, Brown or Ivory Vinyl Cord Receptacle Mates with Fig. ① or other std. AC plugs	.34	3.06
③ 41A302	Bakelite Flat Handle Cap	.25	1.80
④ 41A303	Rubber Handle Cap—375" cord hole	.25	1.80
⑤ 41A304	Rubber Heavy Duty Power Tool Cap—531" cord hole	.30	2.40
⑥ 41A305	Heavy Duty Armored Cap—1 1/8" cord clamp	.55	5.10
⑦ 41A306	Heavy Duty Armored Receptacle. Mates with ⑥	.59	6.00
⑧ 41A307	Bakelite Extension Cord Trio-Tap	.29	2.20
⑨ 41A308	Bakelite Duplex Tap, Cord or surface mount	.35	2.90
⑩ 41A309	Bakelite In-Line Cord Switch	.65	5.40
⑪ 41A310	Porcelain Pull Chain Receptacle, 3/4 or 4"	.98	9.15
⑫ 41A311	Bakelite Cleat Receptacle, Std. screw base	.39	3.50
⑬ 41A312	Bakelite Pull Socket—2 live side tops	.55	4.90
⑭ 41A313	Vinyl Plug-In Trio-Tap. Sta-tite blades	.33	2.60
⑮ 41A383.	Fused Plug, U.L. approved. Use with 1/4" x 1 1/4" fuses to 20 amp. Fuses can be replaced without opening plug. Less fuses.	.89c	10 For.....\$8.01

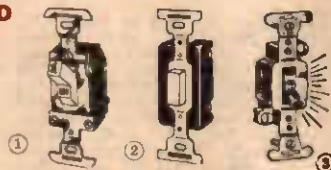
3-WIRE PARALLEL BLADE — U GROUND DEVICES



⑮ 41A315	Vinyl 3-Prong Grounded Adaptor for single receptacle. Parallel Blades, U ground	.48	3.77
⑯ 41A317	Armored 3-Prong Grnded. Cap. Mates	.70	6.40
⑰ 41A318	Armored 3-Prong Grounded Cord Receptacle	1.39	13.45
⑱ 41M319	Brown or Ivory 15A. Receptacle	.95	9.05

MODERN U/L APPROVED ELECTRICAL SWITCHES

- FAR MORE CONVENIENT THAN USUAL TYPES
 - FIT STANDARD OUTLET BOXES AND SWITCH PLATES
- Shpg. wt. 6 oz. each



① HANDY DELAYED ACTION LIGHT SWITCH

Brand new solution to an old problem! Turns off lights 35 to 60 seconds after switch is flipped to the "off" position. Allows you to reach your destination without groping in the dark. Fine for bedroom, hallway, etc. around home, farm, business. U/L rated, 10 A. 125 V. 5 A. 250 V. No. 41M323. Specify Ivory or Brown Single Pole. Net Each \$2.95 For..... \$7.88

② MODERN "TOUCH" WALL SWITCH

Converts "old-fashioned" noisy toggle switch installations to quiet push-button control with no wiring changes! Just a touch or nudge and lights go "on"; another touch and they're "off". Very convenient, especially when arms are loaded. U/L rated, 15A. 120-240 VAC. Specify Ivory or Brown. No. 41M324. Single Pole 10 Lots, Net Each \$1.13 Each \$1.02

③ SILENT MERCURY SWITCH WITH ILLUMINATED HANDLE

Makes no sound when switching lights on and off. Ivory switch handle glows gently in the dark, guides you directly to the switch. Glow light will last a lifetime! Platinum contacts in pools of mercury inside hermetically sealed capsule cannot arc. Large head 8-32 screw terminals. U/L rated, 10 A., 125 VAC. No. 41A325. Single Pole. Net Each \$1.89 10 Lots, \$1.61 No. 41A326. 3-Way. Net Each \$2.99 10 Lots, Each \$2.55

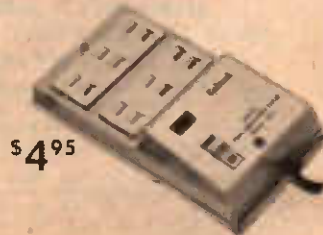
ELECTRONIC CONTROL CENTER

6 AC OUTLETS—PILOT—

ON-OFF SWITCH

Handles up to 1600 W. 120 VAC power for shop, lab, kitchen, etc. Switch controls all outlets. Equipped with 8 ft. line cord and plug. Designed for bench top or wall mounting. Exceptionally well made. Ivory molded plastic. Size 6 3/4 X 3 1/2 X 1 1/2". Shpg. wt. 1 1/2 lbs.

Top Value Import. No. 41A350. Special. \$4.95



\$4.95

BELDEN TWO CONDUCTOR AC REPAIR CORDS

Finest quality. U/L listed. For lamps, radios, clocks, appliances, tools. Attached molded AC plugs stripped ends. Avg. wt. 8 oz. 6 Ft. 18-2 Parallel Lamp Cord. SPT-1 Vinyl. Specify Color: Brown, Grey or Ivory No. 41M332. Belden 17106. Each.....42c 10 Ea.....32c 100 Ea.....29c 9 Ft. 18-2 Parallel Lamp Cord. SPT-1 Vinyl. Brown only. No. 41A333. Belden 17109. Each.....50c 10 Ea.....38c 100 Ea.....34c

FLEXIBLE ASBESTOS 16-2 HEATER-IRON REPAIR CORD

Abrasion resistant asbestos cotton braid covered. Use where flexibility of cord is extremely important. 7 Ft. with molded vinyl plug, cord holder and ring terms. for #8 screw. No. 41A331. Belden 17727. Black. Each.....\$1.01 10 Each.....90c

COILED 18-2 HEATER CORD FOR APPLIANCES, SOLDERING IRONS

U/L listed. HPN Neoprene. Extends to 6 Ft. Plug and ring terms. No. 41A334. Belden 17836. Black. Each.....\$1.12 10 Each.....\$1.00

BELDEN THREE-CONDUCTOR AC CORDS

U/L listed. For all tools and equipment requiring grounding. Parallel prong U-ground plug. Stripped ends. Very highest quality.

Stk. No.	Belden No.	Description	Shpg. Wt.	Net Each	10 Each
41A357	17236	6 Ft. 18 SV Black Rubber	8 oz.	\$0.77	\$0.69
41A358	17237	6 Ft. 18 SVT Grey Vinyl	8 oz.	.69	.59
41A336	17239	8 Ft. 18 SVT Grey Vinyl	8 oz.	.77	.69
41A335	17238	8 Ft. 18 SV Black Rubber	8 oz.	.88	.79
41A359	17408	8 Ft. 18 SJ Black Rubber	8 oz.	1.09	.99
41A360	17407	8 Ft. 18 SJ Grey Vinyl	8 oz.	.83	.74
41A361	17409	8 Ft. 18 SJO Black Neoprene	8 oz.	.99	.89
41A337	17419	9 Ft. 16 SJ Black Rubber	1 lb.	1.28	1.14
41A338	17425	15 Ft. 16 SJ Black Rubber	2 lbs.	2.22	1.99

BELDEN THREE-CONDUCTOR COILED CORDS

U/L listed. Ends dangling cord nuisance, allows free movement of appliance or tool. Black SJO neoprene. Attached parallel prong U-ground plug. Stripped ends.

Stk. No.	Belden No.	Description	Shpg. Wt.	Net Each	10 Each
41A362	17447	18 Extends from 12 in. to 6 Ft.	1 lb.	\$1.89	
41A339	17448	16 Extends from 12 in. to 6 Ft.	1 lb.	2.00	
41A340	17449	16 Extends from 24 in. to 12 Ft.	2 lbs.	2.82	

APPLIANCE CORD SETS—PLUGS BOTH ENDS

Standard miniature appliance plug has 1/2" pin spacing. Fits coffee makers. HPN neoprene. Avg. shpg. wt. 8 ozs. No. 41A327. 6 Ft. 18-2. Leviton 2814-6. Each.....98c 10 Each.....96c

6 FT. COILED APPLIANCE CORD SETS—18-2 HPN NEOPRENE

No. 41A329. Belden 17886. With 1/2" spaced plug. Ea.....\$1.28 10 Ea. \$1.14 No. 41A330. Belden 17887. With 3/4" spaced plug. Ea.....\$1.31 10 Ea. \$1.17

BELDEN THREE-CONDUCTOR YELLOW EXTENSIONS

U/L LISTED—SAFE FOR OUTDOOR USE

Yellow cordage stands out against green or brown backgrounds, reduces hazards of accidental cutting. Molded vinyl parallel prong U-ground plug and socket attached. Finest quality vinyl insulated SJT round cord.

Stk. No.	Belden No.	Description	Shpg. Wt.	Net Each	5 Each
41A363	17491	25 Ft. 18-3 SJT	3 lbs.	\$2.61	\$2.33
41A364	17492	50 Ft. 18-3 SJT	5 lbs.	4.88	4.36
41A365	17494	25 Ft. 16-3 SJT	3 lbs.	3.25	2.90
41A366	17495	50 Ft. 16-3 SJT	5 lbs.	6.32	5.65
41A367	17497	100 Ft. 16-3 SJT	8 lbs.	11.22	10.02

3 WIRE PROJECTOR CORD

Belden 8 ft. gray SVT vinyl cord has No. 18 Conductors. Has 3 contact molded female connector for Revere and Kodak projectors, Friden, Victor, Hewlett-Packard, Marchant Business Machines. Has 3 prong plug for safety grounding. No. 41A444. Belden 17258. Shpg. wt. 1 lb. Each \$1.09 5 Each..... 97

① SYLVANIA 250-WATT Infra-red HEAT LAMP

Instant penetrating heat for treatment of aches and pains, drying paint, thawing, etc. No. 41A6019. R-40 Clear Glass. Net Each.....\$1.75 12 @ Each.....\$1.58 No. 41A6020. R-40 Red Glass. Net Each.....\$3.55 12 @ Each.....\$3.20

② CLAMP-ON BRACKET FOR HEAT LAMPS

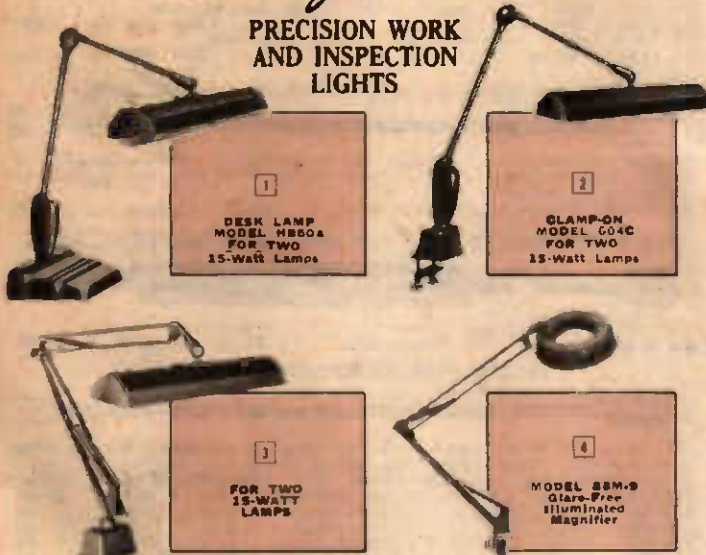
Rubber covered clamp, double ball swivel, 8" aluminum shade. Push switch socket, 6 ft. cord and plug. No. 41A6023. Each.....\$3.99



LIGHTING SPECIALTIES

Swing-O-Lite

PRECISION WORK
AND INSPECTION
LIGHTS



1
DESK LAMP
MODEL HB80A
FOR TWO
15-Watt Lamps

2
CLAMP-ON
MODEL 604C
FOR TWO
15-Watt Lamps

3
FOR TWO
15-WATT
LAMPS

4
MODEL BBM-9
Glare-Free
Illuminated
Magnifier

FLUORESCENT DESK LAMPS

Feather-touch control allows adjustment of arms to ANY position, smoothly, noiselessly and without effort; 36" total length of arms with "universal joints" at base, center and shade. Shade with "on-off" switch on top, is 18" long, 4 1/2" wide, has high light output reflector. Smooth baked enamel finish. UL approved. With cord, less lamps.

1 DESK MODEL HB-604

Has heavy go-tip cast base with rubber bumpers on bottom. Wt. 20 lbs. Less Lamps.

No. 41A8035—Gray Your Choice \$31.85 3 @ Each \$28.60
No. 41A8036—Walnut Brown Each

2 CLAMP-ON MODEL 604C

Easily clamped to edge of any desk or table up to 2 1/4" thick. Wt. 10 lbs. Less Lamps.

No. 41A8037—Royal Gray Your Choice \$23.99 3 @ Each \$21.59
No. 41A8038—Walnut Brown Each

PARALLEL ARM ACTION GIVES PERFECT CONTROL

Most convenient seeing aids made! Lamp head can be rotated and tilted to any position. Arm extends up to 45" in any direction. Unbreakable all-steel base has extra stable double clamps for edge of desk or bench.

3 FOR TWO 15 WATT LAMPS MODEL SF-215

Finest light for close work of any kind, used by draftsmen, machine operators, offices, homes. Wt. 10 lbs. Less Lamps.

No. 41A8000—Gray Your Choice \$29.60 3 @ Each \$28.42
No. 41A8001—Brown Each

4 INSPECTION LAMP-MAGNIFIER MODEL BBM-9

Both hands free to manipulate work. Furnishes glare-free light from 22 watt incandescent lamp around 5" distortion free lens. Wt. 10 lbs. Less Lamp.

No. 41A8039—Gray \$31.65 3 @ Net Each \$28.48



Swing-O-Lite CLAMP-ON INCANDESCENT LIGHT \$15⁷⁵

Has balanced parallel acting support arms. Moves with a "flick of the finger" and stays put! Slide arms extend 45" in any direction from base. Clamp fits edge of table or other flat surface. Shpg. wt. 7 lbs. Less bulb.
No. 41A8034—Gray, Model BB45C
Net \$15.75 3 @ Each \$14.19

INCANDESCENT DESK LAMP

A lamp of a thousand uses! Fine for every room of the home, office, shop, lab. Fully adjustable to any position. Brass socket with push-button switch and 7-inch parabola shade take any size lamp to 75 watts. Shade removable for "poking" into small areas or for heat lamps. Has weighted base, 6 ft. cord and plug. Wt. 4 lbs. Less Lamp.

No. 41A8014 \$4.90 6 @ Each \$4.41



\$4⁹⁰

12-inch
Flexible
Arm

HEAVY DUTY MULTIPLE OUTLET BOXES FOR 115 VOLT AC POWER DISTRIBUTION FOR SHOP, BUSINESS, HOME

NOW AT
LOWEST
PRICES
EVER!



Will safely and conveniently distribute power for appliances, test equipment, shop machinery, office and factory equipment, etc. . . . literally hundreds of uses around the home, office, farm and business. Heavy duty construction, all components U/L approved. Fused for 15 amps. 115 V. AC. Average shipping weight 3 lbs.

1 6 Standard Outlets with Pilot Light and Master Switch. No. 41A4000. Net Each \$6.88
2 4 Standard Outlets with 4 Separate Switches. No. 41A4017. Net Each \$6.88
3 6 "U-Ground" Outlets with Pilot Light and Master Switch. No. 41A4001. Net Each \$8.90

DECORATOR STYLED "SWING-O-LITE" HIGH INTENSITY LAMPS

Parallel arm action with steel springs provides fastest possible adjustment for best light angle. Arm length 24". Bright reflecting surface and 115 volt 405-11 bulb are equal to 200 watts illumination. Bulb life up to 500 hours. Use optional bracket for wall mounting. Available from stock in brush silver; available on factory order (allow 2 weeks) in gold, red, black, or blue satin. Specify color when ordering. Shpg. wt. 5 lbs.

No. 41M8030. 900B. With weighted base. Ea. \$16.75
No. 41M8031. 900C. With C-Clamp. Each \$15.66
No. 41A8032. Accessory Mounting Bracket \$2.57
No. 41A8033. Replacement 405-11 Bulb \$1.25



HI-INTENSITY LAMP

Brighter, glare-free light. Deluxe Hi-Lo-Off switch. Balanced base with genuine walnut veneer inlaid. Double insulated shade. 12" brass plated steel gooseneck directs light where you want it. UL approved. For 115 v. AC. Beautiful beige and walnut finish. Top quality import, at a low price! Wt. 2 1/2 lbs.
No. 41A6001. Each \$7.85
No. 12A4494. #93 Replacement Lamp Each 43¢



PICTURE LAMPS

Beautiful brass plated lights to display all your prized pictures and portraits. Recommended by interior decorators. Use for maps, shelves, displays too. Adjustable brackets. Prefocused reflectors with switch. Made in U.S.A. Complete with bulb. U.L. approved. For 115 V. AC. Wt. 1 lb.

No. 41A6002. 7-Inch Brass Finished Light \$4.69
No. 41A6003. 14 1/2-Inch Brass Finished Light \$6.95

MAKES
YOUR
PAINTINGS
COME TO LIFE!



SIMULATED GAS LIGHT KIT GIVES ANY ELECTRIC LAMP AUTHENTIC GAS LIGHT CHARM

Long life replacement for regular light bulb . . . with convenience of electricity!

\$2⁴⁹

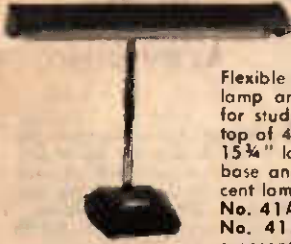
Simple to install in outdoor lanterns, ornamental fixtures, hurricane lamps etc. . . just screw into regular lamp socket . . . and forget it!

Operates cheaply, for less than 1/10 the cost of gas. Fiberglass mantle is burnout proof, never needs replacement. Produces light a-plenty for normal "gas light" installations. Complete with 3000 hour long life GE bulb.
No. 41A349. Net Each \$2.49



ELECTRICAL LAMPS-TIMERS-SWITCHES

ADJUSTABLE DESK LAMP



Flexible chrome goose neck allows wide adjustment of lamp angle. 14 watt fluorescent gives plenty of light for study or writing. Has on and off push buttons on top of 4 3/4" x 5 1/2" base. Height is about 11", shade is 15 3/4" long, 3 1/2 inches wide. Smooth enamel finish on base and shade. Complete with 5 ft. cord and fluorescent lamp. Shpg. wt. 5 lbs. A quality import.
 No. 41A8064, Each \$9.95
 No. 41A8067, Replacement 14 W, Daylight Fluorescent Lamp.
 Each \$1.65 6 Each \$1.57
 24 Each \$1.40

UNDER THE CABINET FLUORESCENT LIGHT



Only 1 1/2" high, this convenient light fits even in crowded space. Fingertip control, only one button for turning on or off. Uses 15 watt fluorescent bulb. Easy to install with only 2 screws without disassembling the lamp. Has convenience outlet. Smooth enamel finish with translucent shield over lamp bulb. Complete with fluorescent bulb and cord. Plugs into 115VAC outlet. Mounting area 18 1/4" x 4 1/4". Shpg. wt. 4 lbs. Imported.
 No. 41A8065, Each \$5.95

INTERMATIC MODEL T-101 UTILITY TIMER

Handles every time need around home or business. Dependable, automatic on-off electric control of appliances, lights, fans, etc. Repeats timing cycle each 24 hours—up to 12 on-off operations per day spaced minimum 1 hour. Manual when desired. Comes with 1 set of adjustable on-off trippers; others easily added without removing dial. Heavy duty 40 amp switch. Gray steel cabinet with hinged door and wiring knock-outs. 7 3/4" H. 5" W. 3" D. For 115 V. 60 Hz. AC. Wt. 3 lbs.
 No. 41A4008, Each \$13.96
 No. 41A4009, As above with DPST switch. Each \$14.99
 41A4010, Set of On-Off Trippers 50c



WIRELESS REMOTE CONTROL SWITCH

Turns "On or Off" Across The Room Turns on and off up to 100 ft. away. Like having a magic wand! Modern up-to-the-minute device adds exceptional convenience around the home, bedroom, sick room, etc. wherever across the room control of lights, radios, TV, fans, etc. is desirable. Plugs into any AC outlet. Wireless Telewand control unit can be hand held or placed wherever convenient. Telewand operates on 9 V. battery. Handles up to 850 watts. Wt. 4 lbs.
 No. 41A4019, \$20.65
 Complete



PHOTOELECTRIC SWITCH

Protects Your Home At Night! Portable. Simply place "eye" in window or where outdoor light will strike cell in face of control. Automatically switches any plug-in room light you choose, turning "on" at dusk and "off" again in the morning. Discourages prowlers, prevents accidents in the dark by turning on the lights for you—automatically. Completely silent operation. Uses less power than an electric clock. Simply plug-in connection with U/L approved cord set. Handles lamp load up to 600 watts. Wt. 12 ozs.
 No. 41A4007, Net Each \$5.95



MALLORY

1500 WATT AUTOMATIC TIMER AUTOMATICALLY CONTROLS ELECTRIC DEVICES



Turns light on automatically ... prevents accidents in dark, discourages prowlers. May be used to control other appliances too. Set to turn on and off automatically at any time you wish. Will stay on from 2 1/2 to 21 1/2 hours at preset time. Automatically repeats daily. Plugs directly into AC outlet and has its own outlet for controlled device. No table mounting space required. Size: 2 3/4" x 3 3/4" x 1 1/4"
 No. 41A4077, \$7.95
 Each

INTERMATIC DELUXE "TIME ALL"

Turns appliances, etc. "on" and "off" at any selected time from 1 hour to 23 hours. Automatically repeats same "on" and "off" operation daily without reset. Manual control switch allows temporary or permanent "on", "off" independent of automatic switch if desired. Requires no installation—simply plug unit into wall socket and appliance cord into receptacle on the "Time-All". Handles up to 1875 Watts. Champagne white housing with walnut wood-grain panel. Wt. 2 lbs.
 No. 41A4021 \$10.95
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No. 16A1202. RCA Monochrome TV Service Manual. Covers 33 RCA black and white models. Chassis No. KCS136 to KCS178. 176 pages plus 36 page foldout section.
No. 16A1203. Zenith Monochrome TV Service Manual. Covers 13A16 to 16N24 chassis, 8Y4B36, IM30T20, IN29T20, IY21B55, IY22B55 transistorized chassis, solid-state 22AB55. 160 pages.
No. 16A1204. Philco Monochrome TV Service Manual. Complete service data for "N" through "T" line 15C20 to 20V35 chassis. 160 pages with 24 complete schematic diagrams.
No. 16A1205. Admiral Monochrome TV Service Manual. Covers 58 B & W chassis. C, D, G, H, K, all transistor NA1-1A. 160 pages with 36 page foldout containing 12 full size schematic diagrams.
No. 16A1226. G.E. Monochrome TV Service Manual. Covers all G.E. black-and-white sets from 1956 to 1971. 160 pages plus 16 schematic diagrams.
No. 16A1232. Japanese Monochrome TV Service Manual. Contains comprehensive data for Hitachi, Panasonic, and Sharp black-and-white TV receivers. 188 pages plus 12 schematic diagrams.
No. 16A1227. Japanese Color TV Service Manual: Volume 2 Contains all pertinent service data for JVC America Delmonico, Hitachi, and Panasonic color TV receivers. Cross-reference to Bradford, Singer, and Penncrest. 176 pages plus 12 schematic diagrams.
No. 16A1228. Magnavox Monochrome TV Service Manual. Covers all Magnavox black-and-white models from 36 series to T946. 160 pages plus 13 schematic diagrams of every Magnavox monochrome chassis since 1966.
No. 16A1230. Magnavox Color TV Service Manual: Volume 2. Covers latest model Magnavox color sets from T950 to T962. Preview of all solid-state model 20T 980. 196 pages plus 36-page schematic foldout section.
No. 16A1229. Motorola Monochrome TV Service Manual. Covers all chassis designations from TS-454 to TS-613. 196 pages plus 36-page schematic foldout section.
No. 16A1231. Motorola Color TV Service Manual: Volume 2. Covers Quasars CTV7 (TS-931), CTV8 (TS-938), Quasar II Models CTV5 (TS-929), CTV6 (TS-934), plus information on original Quasars (TS-915-919). 196 pages plus 9 schematic diagrams.
No. 16A1233. Sylvania Monochrome TV Service Manual. Covers Sylvania Monochrome TV sets from A01 to B14 and models 572, 582, 584, 587, 596, and 598. 196 pages plus 36-page schematic foldout section.
YOUR CHOICE, EACH... \$4.95

HOW TO REPAIR SOLID STATE IMPORTS. Almost one hundred schematics covering currently popular imported brands. Includes service data on AM and FM radios, AM-FM stereo tuners, auto radios, tape recorders, color and B & W TV. 160 pages, 36 page schematic foldout section.
No. 16A1197. Each... \$4.95

ELECTRONIC HOBBYIST'S IC PROJECT HANDBOOK. 50 projects include an electronic organ, Hawaiian guitar device, auto tachometer, metal detector, 11 to 6 meter receiver, 50-watt amplifier, tape recorder booster and others. 160 pages.
No. 16A1154. Each... \$3.95

ELECTRONICS DATA HANDBOOK By Martin Clifford. Contains hundreds of the most used, most needed formulas and data in electronics. All of the formulas are arranged in orderly, logical fashion—under appropriate headings. Tells exactly which formula to use to solve a problem. It provides an easier formula—if there is one. It tells what substitutions—if any—can be made in formulas. And it gives the sequence of formulas if it is necessary to work with several of them. It is a basic book for every electronics library and bookshelf.
No. 16B379. 160 pages, 5 1/2 x 8 1/2". Shpg. wt. 7 oz.... \$2.95

ELECTRONIC HOBBYISTS HANDBOOK by Rufus P. Turner. Scores of tested and debugged circuits for building garage-door openers, amplifiers, oscillators, power supplies, control and photo devices, etc.
No. 16A231. 160 pages, 5 1/2 x 8 1/2". Shpg. wt. 10 oz.... \$2.95

COMMUNICATIONS & EDUCATIONAL HEADSETS

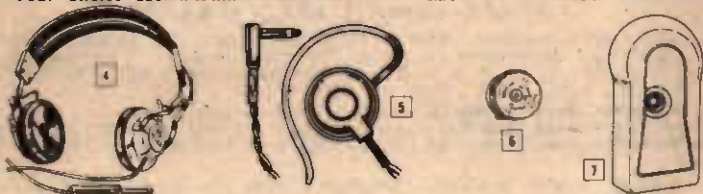
TELEX MODERN HEADSETS



① **Metal Monoset.** Comfortable under-chin featherweight 1.1 oz. Anodized aluminum removable white plastic eartips. Shpg. wt. 5 ozs. Furnished with 5 ft. cord and 1/4" phone plug.
 No. 9A3148. HMV-2. 125 Ohms, Magnetic Choice
 No. 9A3080. HMY-2. 2000 Ohms, Magnetic Each **\$9.75**

② **Twinset.** Extremely lightweight, 1.6 oz. Magnetic receivers rest lightly at temples, adjustable tubular arms pipe sound to ears, blocks out background noise. FAA approved. Shpg. wt. 5 ozs. With 5 ft. cord, 1/4" phone plug.
 No. 9A3081. HTW-2. 500 Ohm Choice
 No. 9A3143. HTX-2. 1000 Ohm Each **\$15.65**

③ **Tele-Fi.** 30% better understanding from induced tone lag. Sound reaches one ear 1/1000 sec. after other, creating "depth" of sound. Magnetic receivers, response 60 to 6000 Hz. Ideal for hams, language students, secretaries, etc. All have 5 ft. cord, 1/4" phone plug. Wt. 4 ozs.
 No. 9A3144. HFR-91. 15 Ohms No. 9A3147. HFX-91. 1000 Ohms
 No. 9A3145. HFV-91. 125 Ohms No. 9A3082. HFY-91. 2000 Ohms
 No. 9A3146. HFW-91. 500 Ohms
 Your Choice Each **\$5.95**



④ **Teleset.** Extremely lightweight and rugged. Only 8 ozs. Ideal for communications work, language labs, hobbyist. Response 50 to 10,000 Hz. Shpg. wt. 1 lb. Furnished with 6 ft. cord and 1/4" phone plug.
 No. 9A3149. HM-500. 500 Ohms, Magnetic Choice
 No. 9A3083. HM-100. 2000 Ohms, Magnetic Each **\$18.50**

⑤ **Metal Earset.** Rugged magnetic unit with reversible loop slips over either ear resting lightly in place. All have 5 ft. detachable cord, 1/4" phone plug.
 No. 9A3150. EMR-2. 15 Ohms No. 9A3084. EMX-2. 1000 Ohms
 No. 9A3151. EMV-2. 125 Ohms No. 9A3153. EMY-2. 2000 Ohms
 No. 9A3152. EMW-2. 500 Ohms
 Your Choice Each **\$6.70**

⑥ **Teletin Magnetic Receiver Units Only.** Rugged high quality replacement units, same as supplied with complete ear loops and Tele-Fi headsets above. Snaps into optional acoustic earphone shell listed below.
 No. 9A3135. RTR-04. 15 Ohms No. 9A3138. RTX-04. 1000 Ohms
 No. 9A3136. RTV-04. 125 Ohms No. 9A3139. RTY-04. 2000 Ohms
 No. 9A3137. RTW-04. 500 Ohms
 Your Choice Each **\$2.79**

ACCESSORIES FOR TELETIN RECEIVERS

⑦ No. 9A3140. Acoustic Shell. Use on either ear. Net Each \$1.48
 No. 9A3141. 5 Ft. Coil Cord with 1/4" Phone Plug. Net Each \$3.25
 No. 9A3142. 5 Ft. Straight Cord with 1/4" Phone Plug. Net Each 2.25

TELEX UNBREAKABLE EDUCATIONAL HEADSETS SURPASS QUALITY REQUIREMENTS OF MOST USERS



Magnetic units of tough Cyclocac molded basket, firmly anchored cords. Surpass quality and performance needs of language labs, communications and vocational users, yet priced lower than others of similar high quality.

610 Series. With soft, comfortable ear cushions, 5 ft. flexible plastic cord, molded 1/4" phone plug. Brown color. 610-1 is available in yellow, blue and green on special order.

No. 9A3123. Model 610-1. 600 Ohms Magnetic Choice
 No. 9A3124. Model 610-2. 2000 Ohms Magnetic Each **\$6.95**

310 Series. Same as above, less ear cushions. With 5 ft. cord, molded 1/4" phone plug.
 No. 9A3125. Model 310-1. 600 Ohms Magnetic Each **\$5.95**

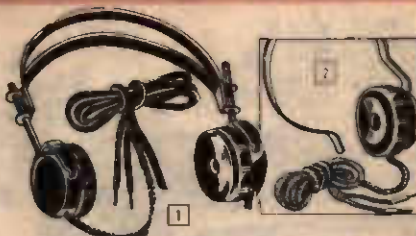
610 Series with Boom Microphone With ear cushions, cord and dual 1/4" phone plug.

Stk. No.	Model	Description	Net Each
9A3127	600-1	600 Ohm Phone, 300 Ohm Dynamic Mike	\$19.95
9A3129	600-3	600 Ohm Phone, Hi-Z Ceramic Mike	21.95

820 Series Educational Music Headphones. With extra large ear cushions, 5 ft. cord and molded 1/4" plug.

No. 9A3131. Model 820-02.	4 Ohms Monaural.	Each	\$ 9.95
No. 9A3132. Model 820-04.	600 Ohms Monaural.	Each	\$13.25
No. 9A3133. Model 820-01.	8 Ohms Stereo.	Each	\$ 9.95
No. 9A3134. Model 820-03.	600 Ohms Stereo.	Each	\$13.25

ALNICO V HEADSET



For Radio Amateurs, SW Listening, Crystal Sets, etc. Popular small size lightweight, extra sensitive. Powered by Alnico V magnets to assure high fidelity response and excellent volume. Sturdily constructed of durable black plastic. Adjustable spring steel headband with vinyl cover on double headsets. Complete with 4 1/2 ft. cord. 1 lb.

(1) **Double Headset, with Pin Tips.** 2000 ohms.
 No. 9A3061. Each **\$3.69**

(1) **Double Headset with 1/4" Phone Plug.** 2000 ohms.
 No. 9A3062. Each **\$3.99**

(2) **Single Headset, 1000 ohms.** With 4 1/2' cord and pin tips.
 No. 9A3063. Each **\$1.99**

(1) **Trimm Deluxe Headset.** Superior low cost headset for use with crystal sets, code training, all radio communications. Double tubular headband, 4 1/2 ft. cord, Bakelite shell and cap. 4000 ohms.
 No. 9A3064. Each **\$3.49**

(1) SUPEREX STEREO PHONES

For private listening, language labs, etc. Features Alnico V magnets, dual coils, vinyl covered spring steel headband. Less phone plug.
 No. 9A3065. Model ST48. 4-8 Ohm Imp. Choice
 No. 9A3066. Model ST2000. 2000 Ohm Imp. Each **\$3.55**

TRIMM HEADSET KITS

FOR TELEVISION AND RADIO



For private radio and TV listening without disturbing others. Ideal for the hard of hearing. Consists of high quality, low impedance headphones, brown hammer-tone control box complete with switch and volume control, 15 ft. of wire, and complete instructions for simple attachment to set. Additional headset listed below may be plugged into box so two persons may listen at once. Wt 3 lbs. Mfg. list \$11.90.
 No. 9A3067. Complete Kit. Net Each **\$8.95**
 No. 9A3068. Extra 4 Ohm Headset for above. \$3.69

"TELEX" HEADSET KIT FOR TV AND RADIO



Private listening, with volume control, 15' cord and simple instructions for attachment. Shpg. wt. 1 lb.
 No. 9A3085. LCP-90
 With Earset. Each **\$9.95**
 No. 9A3086. Extra Earset. ELV-98. Each \$2.95

GROUP HEARING AID COMPONENTS



"Telex" **Persona-Phone.** Private listening device for church, library, museum, theatres, exhibits, etc. Small molded plastic housing contains matching transformer, 2 volume controls, 2 jacks for earphones. New sanitary acoustic shell phone units fit over either ear. Operates on 8 ohm, 70 volt or 25 volt program source. With 2 phones. Neutral tan color, gold front.
 No. 9A3154. Net Each **\$34.00**

Trimm Lorgnette Type Phone. "Featherweight." Small, light. Hearing unit only 2 1/8" dia. x 3/4" thick. Weighs only 1/4 oz. but durably constructed of black plastic material. Hi-impedance 9000 ohms, DC resistance 2000 ohms. Ideal for large installations using 500 ohm lines. With 6 ft. cord. Shpg. wt. 10 ozs.
 No. 9A3069. Net Each **\$7.20**

Trimm Outlet Box with Volume Control. Combines in a single unit volume control, phone jack and terminal strip for incoming circuit. Brown wrinkle finish, 3 3/4 x 2 1/8". Control is 10,000 ohms for use with above phones.
 No. 9A3070. Net Each **\$4.20**

Trimm 90° "Flat" Phone Plug. Non protruding. Fits outlet box or other 1/4" phone jack. Set screws hold standard phone card tips.
 No. 9A3071. Net Each **66c**

HEADPHONE CUSHIONS

① **Foam Rubber,** soft plastic encased. Perfect coupling to ear for best sound. Soft and comfortable. Muffles outside noises. Wt. 4 oz.
 No. 9A3072. Per Pair **\$1.05**
 ② **Soft Rubber,** Comfortable.
 No. 9A3073. Per Pair **\$1.65**

HEADPHONE CORDS

Copper tinsel inner conductor covered with closely woven cotton braid. Single cord 4 feet, dauhie 4 1/2 feet. Wt. 3 oz.
 No. 9A3074. Single cord, pin tips one end, spade tips other. 48c
 No. 9A3075. Double cord, tips on both ends. 69c
 No. 9A3076. Double cord. tips on one end, spade lugs other. 69c

Regency MONITORADIO SCANNERS



CAN BE PUSH-BUTTON PROGRAMMED TO SEARCH YOUR CHOICE OF ANY COMBINATION OF 1 TO 8 EMERGENCY FREQUENCY CHANNELS...STOPS TO HEAR ACTION... THEN RESUMES SCANNING. COMPLETELY CAPABLE OF MONITORING COMPLEX SIMULCAST OR DUPLEX BASE/ MOBILE NETWORKS.

Appeals to both the professional and hobbyist listening to the exciting signals of police, fire, Civil Defense, marine and weather radio. Simple pushbutton control for each channel, and for manual or automatic operation, enables this handsome receiver to be programmed to hear both sides of two way radio conversations on a wide choice of crystal controlled frequencies. The Monitoradio/Scanner comes with AC and DC, cord and mobile mounting bracket, removable telescoping antenna and 4" built-in speaker. External antenna and speaker terminals available on back panel. Front panel controls include On/Off volume and adjustable squelch controls.

MODEL TMR8H
\$139⁰⁰



MODEL TMR-8H SCANNER

Specifications: Frequency range 148-174 MHz. Scan Rate: .05 sec. per channel. Sensitivity .5 microvolts. Selectivity: 50 db @ ± 15 KC. Audio output 5 watts at 1 KC. Operates on 117 V. AC or 12 V. DC. Shpg. wt. 6 lbs. Size 2 1/4" x 5 1/2" x 7 1/2".

\$139.00

No. 9A454. Model TMR-8H. Each

No. 9A463. Model TMR-8U UHF Scanner. 450-570 MHz. Each ... \$159.00

MODEL TMR-8A AIRCRAFT SCANNER

Specifications: Scan rate .07 sec. per channel, sensitivity 1 uv. \$149.00

No. 9A472. Model TMR8-A. 118-128 MHz. Each

No. 9A473. Model TMR8-A. 128-136 MHz. Each.....\$149.00

MODEL TMR8H/L HI-LO SCANNER

Specifications: Frequency range 33 to 174 MHz (depending on model). Scan rate .05 sec. per channel, sensitivity .7 microvolt Hi-Band; .5 microvolt Lo-Band, selectivity 50 db at ±15 KHz. Operates on 117 V AC or 12 V DC. Size: 2 1/2 X 5 1/2 X 7 1/2". Shpg. wt. 6 lbs.

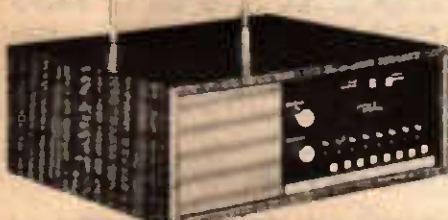
No. 9A458. Model TMR8H/LL 144-174 MHz/33-39 MHz. Your
No. 9A459. Model TMR8H/LM 144-174 MHz/37-43 MHz. Choice
No. 9A460. Model TMR8H/LH 144-174 MHz/41-47 MHz. Each \$169.00



MODEL TMR8H/L
\$169⁰⁰

REGENCY EXECUTIVE SCANNERS

\$139⁰⁰
MODEL TME-8H



Complete and automatic cross band monitoring of 8 channels. Tri-Speed scan action with no time loss for sampling "programmed out" channels. Approx. 15 channels per second scanning rate.

Specifications: Frequency separation: VHF Low Band, 3 MHz (max. sensitivity); except model TME-8LMH is 14 MHz max. sensitivity. VHF High Band, 8 MHz (max. sensitivity); UHF Band, 8 MHz (max. sensitivity); Sensitivity: VHF Low Band, 0.5 microvolt for 20 DB quieting. VHF High Band, 0.6 microvolt for 20 DB quieting. UHF Band, 0.7 Microvolt for 20 DB

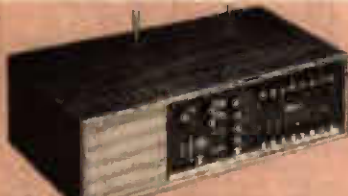
quieting. Squelch Sensitivity (Threshold): VHF Low Band, 0.3 Microvolt. VHF High Band, 0.4 Microvolt. UHF Band, 0.4 Microvolt. Selectivity: 50 DB @ ± 15 KHz.

Walnut wood-grain vinyl clad cabinet with built-in 3 1/2" speaker and detachable, telescope antennas for UHF and VHF High FM Bands. Remote speaker terminals and external antenna jacks on back panels. Size: 10" x 4" x 8 1/2". Wt. 6 1/2 lbs. Operates on 105-130 VAC, 60 Hz or 12-15V DC.

- No. 9A475. Model TME-8H 148-174 MHz Each.....\$139.00
- No. 9A474. Model TME-8A 118-128 MHz Each.....\$149.00
- No. 9A475. Model TME-8A 128-136 MHz Each.....\$149.00
- No. 9A477. Model TME-8LMH 33-47 MHz Each.....\$149.00
- No. 9A478. Model TME-8H/LL 148-174 MHz/33-39 MHz. Each.....\$169.00
- No. 9A479. Model TME-8H/LM 148-174 MHz/37-43 MHz. Each.....\$169.00
- No. 9A480. Model TME-8H/LH 148-174 MHz/41-47 MHz. Each.....\$169.00
- No. 9A481. Model TME-8H/U 148-174 MHz/450-470 MHz. Each.....\$169.00
- No. 9A482. Model TME-8H/LL/U 148-174 MHz/33-39 MHz/450-470 MHz. Each.....\$189.00
- No. 9A483. Model TME-8H/LM/U 148-174 MHz/37-43 MHz/450-470 MHz. Each.....\$189.00
- No. 9A484. Model TME-8H/LH/U 148-174 MHz/41-47 MHz/450-470 MHz. Each.....\$189.00

REGENCY 16 CHANNEL SCANNING MONITORS

\$219⁰⁰



Each of the 16 channels is push button equipped to quickly program the channel in or out of service, for fast programming to a choice of bands-high, low, combination high/low, UHF or a combination of all three bands. Automatic or manual operation and single channel selector features are also

push button controlled.

New, automatic, tri-speed scan technique speeds the signal search to "super-scan" the channels you want to hear most-eliminates signal sampling of channels you choose to temporarily "program-out."

Slide controls adjust volume and background noise squelch. And another push button provides the power "on" or "off" function.

Operates on 105-130 VAC 60 Hz. Other specifications same as other executive scanners above. Size: 13 x 4 x 8 1/2". Wt. 8 1/2 lbs.

- No. 9A485. Model TME-16 H/LL/U High Band 148-174 MHz/Low Band 33-39 MHz/UHF 450-470 MHz. Each.....\$219.00
- No. 9A486. Model TME-16 H/LM/U High Band 148-174 MHz/Low Band 37-43 MHz/UHF 450-470 MHz. Each.....\$219.00
- No. 9A487. Model TME-16 H/LH/U High Band 148-174 MHz/Low Band 41-47 MHz/UHF 450-470 MHz. Each.....\$219.00

No. 9M3180. Crystals for all Regency Scanners except Aircraft. Specify exact frequency wanted. Each.....\$4.95

Crystals supplied from B-A stock or crystal card is furnished. Mail Crystal Card to crystal manufacturer. Crystals sent prepaid in 2 weeks.

No. 9M3198. Crystals for Regency Aircraft Scanners. Specify frequency wanted. Each.....\$5.95

ELECTRA BEARCAT III 8 CHANNEL FM MONITOR WITH AUTOMATIC SCAN TUNING ON EITHER ONE OF TWO BANDS

Receives Police, Fire, Sheriff, Utility Two-Way Services 12 V. DC MOBILE OR 117 V. AC FIXED OPERATION

USED BY RADIO-TV NEWS SERVICES. MUNICIPAL AGENCIES. BUSINESSES. INDIVIDUALS

\$139⁹⁵ MODEL BC3-H
LESS CRYSTALS



Highly sensitive, all solid-state receiver with adjustable squelch and unique automatic tuning. Electronically scans up to 8 crystal controlled channels on either one or two bands, searching continuously (at approximately 25 channels per second) until it locks in on the first active channel. Scanning resumes when that channel clears. Has manual channel selection also. Red light emitting diodes display channel in operation. Sensitivity .7 microvolt for 20 db quieting. Built-in 3" x 5" speaker 3 W. power output, telescoping antenna and jack for auto or external 50 ohm antenna. Connector for external 4 to 16 ohm speaker. Metal case 9" x 3-5/8" x 6 1/2" with universal auto bracket. Power required, 12 VDC @ 6 watts, neg. ground or 117 VAC @ 12 watts. Frequency ranges, are: Low band 30-50 MHz, 15 MHz spread, High band 146-174 MHz, 24 MHz spread, 208

UHF 450-470 MHz, 20 MHz spread. Regular factory alignment is 33-48 and 150-174 MHz, other alignment available on special order. Order crystal for each station frequency. Shpg. wt. 5 lbs.

- No. 9A496. Model BC3-H 146-174 MHz Less Crystals. Each.....\$139.95
 - No. 9A497. Model BC3-L 30-50 MHz. Less Crystals. Each.....\$139.95
 - No. 9A502. Model BC3-U 450-470 MHz. Less Crystals. Each.....\$139.95
 - No. 9A498. BC3-L/H 30-50 and 146-174 MHz. Less Crystals. Each.....\$159.95
 - No. 9A503. BC3-L/U 30-50 and 450-470 MHz. Less Crystals. Each.....\$159.95
 - No. 9A504. BC3-H/U 146-174 and 450-470 MHz. Less Crystals. Each.....\$159.95
 - No. 9M3156. Crystals for BC3-H and BC3-L. Each.....\$4.95
 - No. 9M3157. Crystals for BC3-U. UHF. Each.....\$5.95
- Crystals supplied from B-A stock or crystal card is furnished. Mail crystal card to crystal manufacturer. Crystals sent prepaid in 2 weeks.

Hy-gain

PRO-SCAN MONITOR RECEIVER

EVERYTHING YOU'VE EVER
WANTED IN A MONITOR
RECEIVER!

\$219⁹⁵



LISTEN TO POLICE, CIVIL DEFENSE, WEATHER, FIRE, STATE PATROL, SHERIFF

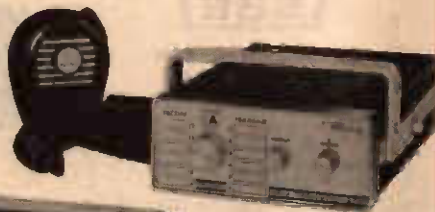
Covers all three bands LoBand (25-50 MHz), VHF (150-174 MHz) and UHF (450-470 MHz). On/Off Squelch-Delay Switch enables you to hold active channel for 2 seconds after transmission allowing you to hear reply. Rate of scan adjustable from 1/2 second per channel to 1/150 second per channel. Can be programmed for LoBand (7 MHz band spread) VHF (10 MHz band spread) or UHF (10 MHz band spread) in any combination of 4, 8, 12, or 16 channels.

Sensitivity .5 microvolt. Push button channel selection. Scan manual switch. Local-Dx switch for high density signal areas. Built-in speaker, External speaker jack. Mobile Mtg. bracket. Operates on 117 VAC or 12 VDC. Size: 8 X 8 x 3" Shpg. wt. 8 lbs.
No. 9A505. HyGain Model 616. Each **\$219.95**
No. 9A3180. Crystals. Each \$4.95

Regency

2 METER FM TRANSCEIVERS

HR-2A
\$229⁰⁰



HR-212
\$259⁰⁰

HR-2MS
\$319⁰⁰



HR-25
\$349⁰⁰

Frequency range 144-148 MHz. Transmit and receive crystals included for 146.94 MHz. Double conversion superheterodyne. Highly selective filter. Ceramic mike and mounting bracket included.

HR212. 12 Channel 20 watts of power. Switch in lock mode provides 12 channel transceive on frequency pairings normally used in your area. In unlocked mode, use channel selectors for your choice of 144 possible frequency combinations.
No. 9A506. Each **\$259.00**
No. 9A468. HR2A 6 channel 15 watts of power. Each **\$229.00**
Transcan Automatic Scanning Transceivers. Program any combination of 8 channels, locks on and listens, waits momentarily for return signal before automatic scan resumption. 15 watts of power.
No. 9A489. HR-2MS. Operates on 12 VDC. Each **\$319.00**
No. 9A490. HR-25. Operates on 115 VAC. Each **\$349.00**
No. 9A491. AR-2. 2 Meter Power Amplifier. Each **\$119.00**

antenna specialists

MONITOR
PREAMPLIFIERS
\$29⁹⁵



Increase signal level 10 times. Bring up those weak signals to usable levels. High amplification broad band design. Mobile mtg. bracket and connecting coax with pin plug. Pin jack for antenna connection. Operates on 9 volt battery.
No. 9A3225. Mon 25. Covers high band 148-174 MHz. Each **\$29.95**
No. 9A501. Mon 26. Covers high band 148-174 MHz and low band 30-50 MHz. Each ... **\$39.95**
No. 9A3226. Mon 28. Covers UHF band 450-470 MHz. Each **\$29.95**
No. 21B141. 9 Volt Battery. Each **54¢**

SONAR SENTRY PORTABLE VHF MONITORS

RECEIVE ON THE SPOT POLICE,
FIRE, AND WEATHER REPORTS

*Ideal for Boatmen to Receive
Weather Broadcasts and for
Industrial In-Plant Radio
Paging.*

\$49.95



Lightweight, pocket-portable and dependable! All solid-state circuit has adjustable squelch to quiet background noise. Receives three crystal controlled FM or AM VHF channels as well as regular AM entertainment broadcast band. Size 5 7/8 x 2 1/2 x 1 1/8". Delivers strong clear audio from speaker or ear phone (included). Has battery condition meter, telescoping antenna. Wt. 11 ounces.

No. 9A439. Model FR-103SA—150-175 MHz. Less Crystals. **\$49.95**
Each
No. 9A440. Model FR-106SA—30-50 MHz. Less Crystals. Net Each **\$49.95**
CRYSTAL CERTIFICATE CARD. Order one card for each frequency. Fill out card, mail to crystal manufacturer. Crystal sent prepaid within 2 weeks.
Important Note: Maximum frequency spread of crystals for FR-103 is 3 MHz, for FR-106S 1 MHz.
No. 9A3161. Crystal Card for FR-103. Net Each **\$4.95**
No. 9A3162. Crystal Card for FR-106. Net Each **\$4.95**
AC BASE-PAK FOR FR-103 OR FR-106
Conserves battery power for portable use when you need it. Snap tight clamps hold Sentry upright.
No. 9A3160. For 115 V. AC. Wt. 3 lbs. Net Each **\$9.95**

**YOU'LL NEED AN ANTENNA FOR BEST
PERFORMANCE FROM YOUR MONITOR
OR 2 METER EQUIPMENT**

SEE PAGES 214 AND 215 FOR A
COMPLETE LISTING

COMMUNICATIONS EQUIPMENT FOR SWL'S AND AMATEURS



SOLID STATE AMECO RSA RECEIVER

FOR AMATEURS, POLICE,
FIRE AND SHORTWAVE

A fine receiver for the shortwave listener and beginning amateur. Receives .54 MHz through 54. MHz in 5 continuous bands; standard broadcast, foreign shortwave broadcasts, amateur bands 6 through 160 meters, 27 MHz CB channels and commercial frequencies. Has built-in speaker. Has beat frequency oscillator, noise limiter and bandspread controls. Fully transistorized. Gray steel cabinet is 11-5/8" W x 6 1/4" H x 9" D. Shpg. wt. 12 lbs.
No. 9A410. Net Each \$109.95



hallicrafters

MODEL S-125

"STAR QUEST II"
ALL-TRANSISTOR
4-BAND RECEIVER

Range .54-31 MHz For Worldwide Shortwave and Standard AM Broadcasts. Shortwave band I covers weather, marine, amateur. .2-5 MHz. Shortwave Band II afternoon and evening shortwave reception. .4-8-11.5 MHz, Shortwave Band III all day shortwave monitoring. 11-30 MHz. Has main tuning and electrical bandspread. Sensitive superhet circuit, BFO for code and single sideband, AGC, internal speaker, provision for external speaker or headphone. Operates on 115 VAC or 12 VDC. Black cabinet with aluminum trim. Size 12 x 5 1/2 x 5" deep. Wt. 8 lbs.
No. 9A467. Model S-125. Net Each \$59.95



hallicrafters

MODEL SX-133

GENERAL COVERAGE
RECEIVER

535 KHz to 31.5 MHz—AM-SSB-CW. Precision 7 tube receiver with crystal filter, S meter, bandspread tuning. Slide rule dial is calibrated in megacycles and has 0-100 logging scale. Bandspread dial at left includes amateur and CB coverage. Crystal filter for pin-point selectivity. Has RF amplifier, 2-IF stages, automatic noise limiter, product detector for upper and lower side band reception, 2 watts output for external 3-4 ohm speaker. Front panel phone jack. Professional gray steel cabinet. Size 18-7/8 x 9 3/4 x 8" High. For 115 V. 60 Hz AC. Wt. 25 lbs.
No. 9A450. Less Speaker. Net Each \$350.00
No. 9A413. R-50 Matching Speaker. Wt. 4 lbs. Each \$39.95
No. 9A3155. HA19. 100KHz Plug-In Crystal Calibrator. Net Each . \$39.95



hallicrafters

MODEL SX-122A

DUAL CONVERSION
RECEIVER

.538-34 MHz Electrical Bandspread 80 thru 10 meters. 538 to 1580 KHz broadcast. 1720 KHz to 34 MHz. Continuous in 3 bands features. If system with 3 selectivity ranges 0.5, 2.5 and 5 KHz at 6 db down, series noise limiter and AVC, product detector for upper and lower SSB/CW, antenna trimmer, S meter and dual conversion on all bands. Output, 3.2 ohms for external speaker. Professional gray metal cabinet. Size 18-3/4 x 8 x 9-3/4" deep. For 110/220 V. 50/60 Hz AC. Wt. 29 lbs.
No. 9A436. Less Speaker. Net Each \$550.00
No. 9A3155. HA19. 100KHz Plug-In Crystal Calibrator. Net Each . \$39.95
No. 9A413. R-50 Matching Speaker. Net Each \$39.95



DRAKE SW-4 SW BROADCAST RECEIVER FOR THE SHORTWAVE LISTENER

- Ultra precision tuning dial accuracy.
- Crystal lattice filter.
- Dual conversion.
- Preselector

\$335.00

Features direct frequency dialing with calibration accuracy ± 2 KHz. Tunes longwave, standard broadcast and shortwave broadcast 49M, 41M, 31M, 25M, 19M, 16M, 13M, 11M, with exceptional sensitivity, selectivity, and stability needed for finest shortwave listening. Has solid state VFO, crystal oscillator and AVC, solid state audio system, 2 watts output to 4 or 8 ohm speaker. 6 tubes plus 15 solid state devices. Size 5 1/2" H., 10 3/4" W., 11 1/2" D. For 120/240 VAC, 50/60 Hz. Wt. 16 lbs.
No. 9A415. Net Each \$335.00
No. 9A3119. MS-4 Matching Speaker. Wt. 6 lbs. Net Each \$22.00



SBE SB-144 VHF/FM MOBILE TRANSCEIVER

A top performing transceiver for 2 meter VHF operation. 12 channel switching with 3 channel crystals supplied, transmitter has 10 watts output power, phase mod. with ± 15 KHz max. freq. deviation. Receiver is double conversion with sensitivity of .5uV for 10 db S/N. Ceramic filter. Operates on 12 VDC negative ground systems. Crystals furnished for Ch. 1 T146.34, R146.94 MHz, CH. 2 146.94 T and R, Ch. 3 T146.16, R 146.76 MHz. For 50 ohm antennas. Size 6-11/16" H x 2-3/8" H x 9-1/16" D. Shpg. wt. 7 lbs.
No. 9A500. Model SB-144. Each \$239.95



SBE SB-450 UHF/FM MOBILE TRANSCEIVER

420 to 455 MHz FM with the same easy operation the 144 MHz band offers. The SB-450 is a 12 channel transceiver with 5 watts output, the receiver sensitivity is .5 uV for 20 db quieting and has a crystal lattice filter in the IF. Single conversion 10.7 IF. Antenna impedance is 50 ohms. Supplied complete with dynamic PTT mike and crystals for Ch. 1 T449.5, R444.5 MHz, and Ch. 2 446 MHz T&R. Has 24 diodes, 1 SCR, 4 IC's and 29 transistors. Size: 6 1/2" W x 2 1/4" H x 8 1/4" D. Shpg. wt. 7 lbs.
No. 9A507. Model SB-450. Each \$399.95

SBE SB-36SSB/CW TRANSCEIVER

- Nixie Digital Frequency Readout to 100 Hz
- Full coverage 10 to 80 meter phone and CW Ham Bands
- 500 watts PEP input



The SB-36...the Ham "Dream" Receiver...is here! Advanced technology allows you to tune with a free-spinning counterweighted knob and read the frequency accurate to 100 Hz on the 6 digit nixie readout. Receiver Incremental Tuning, by push-button, allows receiver to be tuned to an off frequency, and the RIT lamp tells you when RIT is in use. Deluxe sideband-generating system uses two 9 MHz crystal lattice filters for solid output frequency when changing sidebands. ALC permits high power levels, a blower cools interior circuit elements. Transmitter input is 500 watts PEP, 400 watts CW. Receiver sensitivity .5uV for 10 db S=N/N, selectivity 2.4 KHz at 6 db. Stability is 100 Hz or better in 1/2 hour. Has sidetone CW monitor and highly effective noise blanker. Speaker and 115/220 V 50/60 Hz AC power supply are in separate cabinet. Transceiver size 6-5/8" x 13 1/4" W x 14 1/2" D, power supply is 6-5/8" H x 6" W x 12 1/4" D. Shpg. wts., transceiver 22 lbs., power supply 24 lbs.
No. 9A7035. Model SB-36 with speaker/power supply. Each \$895.00
No. 29A691. Model SB-3. Dynamic hand mike with coiled cord and plug for SB-36. Each \$11.95



SSB-CW-RTTY AT ITS BEST!

KWM-2 TRANSCEIVER (illus.) 175 W. PEP SSB, 160 W. CW, 80 thru 10 meters, selectable sideband. 5 1/2 x 14 3/4 x 13" deep. Wt. 18 lbs.
9A449. Net Each \$1446.00

KWM-2 ACCESSORIES

No. 9A3166. 516F-2 AC Supply. 28 lbs. Net Each \$187.00
No. 9A3167. 312B-5 PTO, Wattmeter, Patch, Speaker. Net Ea. \$557.00
No. 9A3168. MP-1 12 V. DC Supply. 13 lbs. Net Each \$292.00
No. 9A3169. 351-D-2 Mobile Mount. Wt. 18 lbs. Net Each \$337.00
755-3B RECEIVER. Tunes amateur bands 3.5 MHz to 29.7 MHz with coverage of any frequency in the 3.5 to 30 MHz range (except 5.0 to 6.5 MHz) by substituting crystals. Operates on 117 V. 60 Hz AC. Size 6 3/8" H., 14 1/2" W., 11 3/8" D. Wt. 20 lbs.
No. 9A446. With 2.1 KHz Mechanical Filter. Net Each \$1101.00

OPTIONAL ACCESSORIES FOR 755-3B

No. 9A3170. X455KQ-200. 200 Hz. Mechanical Filter. Each \$107.00
No. 9M3171. 500, 800 or 1500 Hz. Mechanical Filter. Specify, Ea. \$68.00
No. 9M3172. 3.1, 4 or 6 KHz Mechanical Filter. Specify. Each \$57.00
No. 9A3173. 312B-3 Matching Speaker. Net Each \$40.00
No. 9A3174. 312B-4 Speaker, Console, power meter, patch. Net Each \$260.00
325-3 TRANSMITTER. The finest transmitter of its kind. 175 W. PEP input on SSB, 160 W. CW. Range 3.5-29.7 MHz except 5.0 to 6.5 MHz. Mechanical filter sideband generation, permeability-tuned VFO automatic load control for higher average talk power. Internal switching permits transceiver operation when used with 755-3 receiver. Same size cabinet as receiver. Requires 516-F2 AC power supply above. Wt. 16 lbs.
No. 9A447. Net Each \$1330.00
30L-1 LINEAR AMPLIFIER. 1000 W. PEP. 38 lbs. Same size as KWM-2. Covers 80 through 10 meters. 115/230 V. AC.
No. 9A448. Net Each \$649.00

AMATEUR STATION EQUIPMENT



R. L. DRAKE

TR-22 2-METER FM TRANSCEIVER

Works on its integral Ni-Cad battery with 115 VAC recharging circuitry or 12 VDC. Has telescoping antenna or use any 50 ohm antenna. Over 1 watt RF output. Six channel capacity (3 supplied R146.94/T146.34, R/T 146.94, R146.76/T146.34). Complete with PTT mike, batteries, and carrying case. Size: 5-3/8" x 2-3/8" x 7 1/8". Wt. 4 lbs.

- No. 9A470. Each **\$199.95**
- AA-22. Amplifier-A receiver preamp and gives 25 watts output RF with 1/2 to 3 watt drive on transmit. For 12VDC.
- No. 9A471. Each **\$149.95**
- No. 9A3195. MMK-22. Mobile Mount for TR22. Each **\$9.95**

SPR-4 ALL SOLID STATE COMMUNICATIONS RECEIVER

Receives SSB (upper and lower), AM, and CW. Covers (with supplied crystals): 150 KHz -1.6 MHz, 6.0-6.5 MHz, 7.0-7.5 MHz, 9.5-10 MHz, 11.5-12 MHz, 15-15.5 MHz, 17.5-18.0 MHz, 21.5-22 MHz. Selectivity. AM-4.8 KHz @ 6 db., SSB-2.4 KHz @ 6 db. CW-.4 KHz @ 6 db; 1st IF 5645 KHz crystal lattice filter, 2nd IF 50 KHz LC filter. Frequency Stability: better than ±100 Hz. Sensitivity: SSB and CW-.25 uV, AM-.5 uV. Input Impedance: 50 ohms. Output: 3 W. at 4 ohms. For 115 VAC or 12 VDC. Sizes 5 1/2" x 10 3/4" x 12 1/4". Wt. 18 lbs.

- No. 9A469. **\$499.95**
- Less speakers. Each
- No. 9A3119. MS-4. Matching Speaker. Each **\$22.00**
- No. 9A3193. 5-NB. Plug in noise blanker. Each **\$65.00**
- No. 9A3194. DC-PC. DC Power Cord. For 12VDC. Each **\$5.00**



C-4 STATION CONTROL CONSOLE

Digital 24 hr. clock, front panel controlled power master contactor, remote antenna selector, phone patch, transmit taps mode, timer reminder, forward and reflected power wattmeter, operator programmed equipment control and rotor control for the HAM-M rotor. The power master switches 6 120 VAC and 2 240 VAC outlets, has 2 unswitched 120 VAC outlets. Selection of up to 5 antennas. Phone patch has compression amplifier for constant drive. Easy to read rotor direction scale. 5 1/2" H x 10 3/4" W x 11-5/8" D.

- No. 9A3203. Model C-4. Shpg. wt. 17 lbs. Each **\$305.00**

MN ANTENNA MATCHING NETWORKS WITH WATTMETER

Match 52 ohm coax with VSWR of 5:1 or less, 75 ohm at lower VSWR. Front panel switching to network, direct to coax or to dummy load. Reads power output on VSWR. Has SO-239 coax connectors.

- Model MN-4 for up to 200 watts continuous 5 1/2" H x 10 3/4" W x 8 1/2" D.
- No. 9A3207. Model MN-4. Each **\$99.00**
- Model MN-2000 for up to 2000 W. PEP. 5 1/2" H x 10 3/4" W x 14 3/4" D.
- No. 9A3208. Model MN-2000. Each **\$195.00**

Hy-Gain
GALAXY
LINE



- (1) The Galaxy GT-550A Transceiver, with the highest power output available now, delivers 300 watts PEP on SSB, 180 watts on CW and RTTY. Power input is 550 watts PEP on SSB, 360 watts on CW and RTTY (50% duty cycle). Power requirements are 800 VDC at 700 mA, 350 VDC at 400 mA, -100 VDC at 45 mA, 12.6 VAC/DC at 6A, 12.6VDC at 1.5A. Crystals are supplied for 3.5 to 4, 7 to 7.5, 14 to 14.5, 21 to 21.5, 28 to 29 MHz. Optional crystals may be installed for other 10 meter frequencies. Features frequency stability, calibration accuracy to 2 KHz, clean CW keying with 1000 Hz side tone for monitoring, selectable sideband without frequency jump on SSB. Receiver has better than .5uV sensitivity, with selectivity of 2.1 KHz on SSB. Output is 4 watts to speaker. Size 6" H x 11 1/4" W x 12 1/2" D.
- No. 9A3224. GT-550A. Mfg. 855. Shpg. wt. 19 lbs. Each **\$595.00**
- (2) The Galaxy RV-550A Remote solid state VFO, gives flexibility of a separate transmitter and receiver when used with the GT-550A. Function switch selects the remote unit to control receive-transceive-Transmit independently. Complete with plug-in cables. Size approx. 7" H x 7 1/4" W x 6 1/2" D.
- No. 9A3223. RV-550A. Mfg. 856. Shpg. wt. 6 lbs. Each **\$95.00**
- (3) The Galaxy RF-550A RF Console is a precision wattmeter in the 3.5-30 MHz range. 400 and 4000 watts full scale, switches for forward or reflected power. Also has selector switch for 5 antennas plus dummy load (not supplied) unused connections are grounded. SO-239 coax connectors. Size approx. 7" H x 7 1/4" W x 6 1/2" D. Shpg. wt. 7 lbs.
- No. 9A3222. RF-550A. Mfg. 857. Each **\$75.00**



R. L. DRAKE
AMATEUR & GENERAL
COVERAGE RECEIVER

\$255.00

2-C RECEIVER 2-NT TRANSMITTER

MODEL 2-C AMATEUR & GENERAL COVERAGE RECEIVER

Receives SSB, AM, CW and RTTY. Covers 80, 40, 20, 15 meters and 28.5 to 29.0 MHz with crystals furnished, or tunes any 500 KHz range between 3.0 and 30 MHz with an accessory crystal. Bandspread dial. Sensitivity less than .5 microvolt for 10 db. S/N selectivity .4 KHz, 2.4 KHz and 4.8 KHz. Has product detector solid state AVC and audio, 1.8 w. output. Requires 4 ohm speaker. Has internal sockets for crystal calibrator and noise blanker. 120 VAC 50/60 Hz. Size 11-5/16x6-9/32x9-3/32" deep. Wt. 13 1/2 lbs.

- No. 9A428. Model 2-C. Net Each **\$255.00**
- No. 9A3116. 2 AC Crystal Calibrator. Net Each **\$18.75**
- No. 9A3114. 2CS Matching Speaker. Net Each **\$22.00**
- No. 9A3115. 2CQ Q-Multiplier Speaker. Net Each **\$45.00**

MODEL 2-NT NOVICE CW TRANSMITTER

Ideal companion transmitter for the 2-C receiver above. Frequency coverage 3.5 to 3.8 MHz, 7 to 7.2 MHz, 14 to 14.25 MHz, 21 to 21.25 MHz and 28 to 28.5 MHz. Front panel sockets for 2 crystals. Provisions for external VFO. Input power variable to 100 watts. Plate meter red-lined for novice power. Simplified tune up, automatic transmit by closing key, antenna change over relay, automatic receiver mute, built-in CW sidetone, low pass filter for reducing harmonics and TVI. 120 VAC. Size 9-7/8 x 6-9/32 x 9-9/32" deep.

- No. 9A441. Less Crystals. Wt. 13 lbs. Net Each **\$175.00**



R. L. DRAKE

TR-4 TRANSCEIVER (illus.), 300 W. PEP SSB, 260 W. CW, 260 W. PEP (50 W. out) AM, 80 through 10 meters in seven 600 KC ranges. Solid state VFO. Selectable sideband. 5 1/2x10 3/4x14 3/8" deep. Wt. 16 lbs.

- No. 9A433. Net Each **\$599.95**

TR-4 ACCESSORIES

- No. 9A3196. 34NB Noise Blanker. Wt. 2 lbs. Net Each **\$100.00**
- No. 9A3117. AC-4 AC Supply. Wt. 19 lbs. Net Each **\$99.95**
- No. 9A3118. RV-4. Console VFO/Speaker. Wt. 7 lbs. Net Each **\$110.10**
- No. 9A3119. MS-4 Matching Speaker. Wt. 6 lbs. Net Each **\$22.00**
- No. 9A3120. DC-4 12 V. DC Supply. Wt. 10 lbs. Net Each **\$125.00**
- No. 9A3121. MMK-3 Mobile Mounting Kit. Wt. 3 lbs. Net Each **\$6.95**

R-4B RECEIVER. SSB, AM, CW, RTTY. Covers ham bands 80, 40, 20 15 meters and 28.5 to 29.0 MHz with crystals furnished. 1.5 MHz to 30 MHz in 500 KHz ranges with accessory crystals. VFO has 1 KHz calibration. Size 5 1/2 x 10 3/4 x 11-5/8" deep. Wt. 16 lbs.

- No. 9A429. Net Each **\$475.00**

T-4XB TRANSMITTER. Will transceive with R-4B receiver. Has its own VFO 200 W. PEP SSB and AM, 200 W. CW. Requires AC-4 power supply above. Size 5 1/2x10 3/4x11 5/8" deep. Wt. 14 lbs.

- No. 9A430. Net Each **\$495.00**

DRAKE W-4 DIRECTIONAL RF WATTMETER

Monitors forward and reflected RF power on 52 ohm, coax line. Two scales 0-200 and 0-2000 W. ±5% accuracy. 1.8-54 MHz. 6" H, 3 1/4" W, 4" deep.

- No. 9A3091. Wt. 4 lbs. With Removable Coupler. Net Each **\$61.95**
- No. 9A3113. Model WV-4 as above, for 20-200 MHz. Net Each **\$73.50**

(4) The Galaxy SC-550A Speaker Console has phone jack and cable. Has space for AC-400 power supply to mount inside. Size approx. 6" H x 10" W x 9 1/2" D. Shpg. wt. 8 lbs.

- No. 9A3220. SC-550A. Mfg. 858. Each **\$29.95**

Galaxy AC-400 AC Power Supply (not shown) is a solid state supply for 115/130 VAC, 50/60 Hz. with cable and plug for the GT550A. Shpg. wt. 22 lbs.

- No. 9A3219. AC-400. Mfg. 801. Each **\$99.95**

Galaxy G-100D DC Mobile Power Supply (not shown) for 12 volt negative ground. Solid state, it provides full power for the GT-550A. Complete with primary and secondary cables. Size 6" x 8" x 3 3/4" H.

- No. 9A3218. G-100D DC. Mfg. 802. Shpg. wt. 9 lbs. Each **\$129.95**

Galaxy VOX-35C Solid State Circuit (not shown) plugs in internally on the GT-550A. 3 controls for VOX gain, anti-VOX gain, time delay. May be adjusted from outside cabinet. Shpg. wt. 1/2 lb.

- No. 9A3214. VOX-35C. Mfg. 807. Each **\$29.95**

Galaxy CAL-250, 25 KHz Calibrator (not shown) plugs in internally and operates from panel switch. Ideal for new sub-bands. Shpg. wt. 1 lb.

- No. 9A3217. CAL-250. Mfg. 806. Each **\$25.00**

Galaxy Mobile Mounting Brackets (not shown). No. 9A3215. GTM-809 Universal Dash Mounting of GT-550A. Each **\$8.95**

- No. 9A3216. ZZM-810. Floor Board Adapter for GTM-809. Each **\$6.00**

Turn to page 213 for Hy-Gain Roto-Brake Rotator

AMATEUR RADIO EQUIPMENT

Hy-gain

ROTO-BRAKE

UP TO 10 TIMES THE ROTATING AND BRAKING CAPABILITY OF ANY OTHER ROTATOR.



\$229.95

Rotates large, stacked beams easily with over 4000 in./lbs. rotating torque and clutch brake to prevent gear damage. Gear train is protected by a husky cast aluminum housing. Handsome control unit has sweep pointer over compass rose. Select desired antenna direction and the powerful motor turns rotator to that position. Rotates 380° at 1 rpm, uses 5 conductor cable, 2 #18 and 3 #16. Mast clamp accepts up to 3" dia. mast, rotator mounts on standard plate in towers with leg spacing of 10" or more. Brake is adjusted to slip at 5000 in./lbs. stress.

No. 9A3212. Model 400. Shpg. wt. 29 lbs. Each **\$229.95**
No. 2A515. Mfg. 412. 5 wire cable. Per Ft. 19c

24-HOUR WORLD CLOCK WITH UNIQUE SOUTH POLAR PROJECTION MAP

● 8" Diameter—Self Starting Electric
● Highest Quality—UL Approved
Reliable split second, round the world time at a glance. For Hams, Short-wave listeners, commercial radio stations, home or office. Beautifully chrome plated all metal construction with contrasting black face and white numerals. Has sweep second hand. Unique feature is inner dial with south polar projection map to show world time. Quiet operating self-starting synchronous motor. For 115 V. 60 Hz AC. UL approved. Wt. 1 1/2 lb.
No. 9A3036. **\$9.99**
Net Each



24 HOUR NUMECHRON DESK CLOCK

DIRECT READING

Exact split second time can be read at a glance. Has separate 1/4" number wheels for hour, minute and second. Fine for home, desk; ideal for radio stations. Quiet operating. Ebony plastic case 7 3/4 x 4 x 4". Self-starting, 115 V. 60 Hz AC. Wt. 4 lbs.
No. 9A3035. Net Each. **\$16.00**



OMEGA-T ANTENNA BRIDGE

Instrument checks both resonant frequency and impedance of antenna systems, beams, whips, dipoles, etc. Frequency range 5 to 100 MHz, useful to 150 MHz. Internal 9 volt transistor battery powered noise diode with 3 transistors furnishes test signal. Use with any calibrated receiver. Wt. 1 lb.
No. 9A3033.



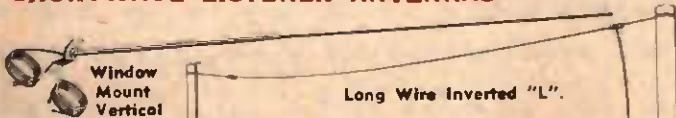
Model TE7-01. Each **\$29.95**

EICO GRID DIP METERS

Model 710. Compact, versatile and rugged. Easy to hold and thumb-tune with one hand. Covers 400 KHz to 250 MHz in 7 overlapping ranges. Plug-in coils have protected "internal" windings. Exceptionally stable, pre-calibrated for accuracy. Has sensitivity control, 500 microamp meter, built-in absorption wave meter circuits and 110 VAC transformer power supply. 2 1/4 X 2-9/16 X 6-7/8". Wt. 3 lbs.
No. 9A3041. Kit with Tubes and Instructions. **\$39.95**
Each

No. 9A3042. Factory-wired and tested. Each **\$59.95**

SHORTWAVE LISTENER ANTENNAS



DX receiving ability of any receiver depends on antenna efficiency. These antennas are designed for all SWL type receivers, matching high impedance input. Especially easy to install.

Window Mount Vertical. Especially for limited space installation. Works at home, in apartments or on vacations. Simple to install. Includes 12 ft. aluminum element, 30 ft. lead-in, universal bracket, 20 ft. grounding kit and instructions. Wt. 4 lbs.
No. 9A198. HyGain SW-9. Net Each. **\$9.95**

Long Wire Inverted "L". 50 ft. antenna flat-top, 50 ft. lead-in, 25 ft. poly plastic rope, molded insulators and instructions. Wt. 4 lbs.
No. 9A197. HyGain SW-6 Kit. Net Each. **\$6.95**

HIGH-POWERED C-D-R HAM-M ROTATOR

Handles Full Size Amateur Antennas

\$129.95

- Heavy Duty Brake Built-in
- Mast, Tower or Platform Mounting

Clamps take up to 2" diameter masts. Lower clamp removable for flat bolt-on mounting. Housing dia. 8" maximum. Delivers approx. 360 inch pounds torque. Gear train is made of precision machined stainless steel. Rotates 360° at 1 RPM. Lower portion of unit contains the automatic solenoid operated brake capable of withstanding 3600 in. lbs. torque.

Meter Type Direction Indicator is continuous indicating type. Gives accurate headings. Requires 8 wire cable (2 #18, 6 #22, Belden type 844E listed page 159). Wt. 20 lbs.

No. 9A3031
HAM-M. Net Each. **\$129.95**

MODEL TR44A ROTATOR

USES SAME ACCURATE INDICATOR AS THE HAM-M

Designed specifically for intermediate loads, CB antennas, large VHF arrays and small HF antennas—not quite as rugged as the HAM-M but will handle most antennas. Has magnetically released mechanical brake. Requires 7 wire Belden 8467 #18 cable. Shpg. wt. 20 lbs.
No. 9A3032. **\$69.95**
Net Each

No. 2A9978 Belden 8467 #18 7-Wire Cable. Per Ft. 25c
100 Ft. **\$14.95**



METER TYPE INDICATOR



LOW PASS TRANSMITTER TVI FILTERS



All are rated 1 KW RF power, have very low insertion loss and provide excellent attenuation of transmitter harmonics falling in TV bands. All have SO-239 fittings. Factory adjusted for maximum attenuation. Average shpg. wt. 2 lbs.

- ① 9A3043. Barker-Williamson Model 425. For 52 Ohm Coax. Ea. **\$24.95**
- ② 9A3044. Johnson Model 250-20. For 52 Ohm Coax. Each. **\$14.95**
- ③ DRAKE 52 OHM FILTERS. Cut off between 6 meters and channel 2. No. 9A3045. Model TV-1000-LP. 1000 Watts except 6 meters, 200 watts. Each **\$18.75**
- No. 9A3197. Model TV-42-LP. Below 30 MHz 100 watts continuous. Each **\$7.65**

RF COAX SWITCHES AND RELAYS



WITH RADIAL OR AXIAL MOUNTED CONNECTORS



B & W COAX SWITCHES. 1 KW, 52-75 ohms to 50 MHz. For receiver/transmitter switching to antennas. Dia. 4 x 2 1/4". 1/4" x 1" shaft. Wt. 2 lbs. All have SO-239 coaxial connectors.

- | Stk. No. | Type | Description | Net Each |
|-------------|-------|------------------------------------|----------|
| (1) 9A3047. | 550A | S.P. 5-Position, Radial Connectors | \$10.95 |
| (1) 9A3048. | 550A2 | S.P. 2-Position, Radial Connectors | \$7.43 |
| (2) 9A3049. | 590 | S.P. 5-Position, Axial Connectors | \$14.95 |

- DOW 1KW 52 OHM COAX RELAYS, With SO239 connectors and internal receive shorting device.
- (3) 9A3050. Type DK60-G. 115 V. 60 Hz AC. Net Each. **\$38.15**
 - As above with extra DPDT external contacts. **\$41.85**
 - (3) 9A3051. Type DK60-G2C. 115 V. 60 cv AC Net Each. **\$38.15**
 - (2) 9A3052. Type DK60-G2C. 12 V. DC. Net Each. **\$38.15**

PETERSEN ELECTRONICS HIGH QUALITY CRYSTALS



Supplied within the following bands, calibrated integral kilacycles only at oscillator load capacity of 32 pfd. Pin spacing standard .487". Pin diameters, Z-9C .093", Z-6A and Z-9A .050". Orders must be paid in full and are non-cancellable. Allow 2 weeks for factory processing.

Freq. Range	Type	Calibration	Net Each
1,750 to 2,000 KHz	Z-9C Fundamental	± 250 Cycles	\$2.95
3,500 to 4,000 KHz	Z-9C Fundamental	± 500 Cycles	2.95
7,000 to 7,425 KHz	Z-9C Fundamental	± 500 Cycles	2.95
8,000 to 8,222 KHz	Z-9C Fundamental	± 500 Cycles	2.95
8,334 to 9,000 KHz	Z-9C Fundamental	± 500 Cycles	2.95
24,000 to 24,666 KHz	Z-9A 3rd Overtone	± 3 KC	4.50
25,000 to 27,000 KHz	Z-9A 3rd Overtone	± 3 KC	4.50
28,000 to 29,700 KHz	Z-9A 3rd Overtone	± 3 KC	4.50
50,000 to 54,000 KHz	Z-9A 5th Overtone	± 15 KC	4.50

No. 9A3100. Z-6A 100KHz Freq. Standard. Net Each. **\$6.95**

CRYSTAL SOCKETS

Stk. No.	Mfg. Type	Description	Net Ea.
⑧ 12B299	Millen 33302	.05" D. Pins, 1/4" Spacing, Ceramic	48c
⑧ 12A5123	Millen 33102	.095" D. Pins, .487" Space, Ceramic	69c
⑧ 12A5124	Cinch 2KM	.095" D. Pins, .487" Space, Bakelite	39c

AMATEUR RADIO BOOKS AND ACCESSORIES

AMECO RADIO AMATEUR LICENSE GUIDES FASTEST WAY TO A HAM TICKET

Brand new up-to-date study guides containing FCC questions and easy-to-understand answers, FCC-type multiple choice practice exam and questions grouped by subject. By Martin Schwartz, 48 pages, each guide.

- For Novice thru General Class Licenses, No. 16A202, Ameco 5-01. **75c**
 Each
 Advanced Class License Guide No. 16A1107, Ameco 16-01. Each **75c**
 Extra Class License Guide No. 16A1108, Ameco 17-01. Each **75c**



NEW TAPE CASSETTE CODE COURSE \$4.95



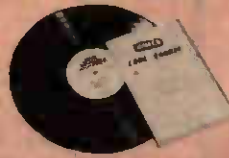
Study code the modern way with your cassette recorder. Same proven learning techniques based on military "Eye and Ear" Methods like used on long playing records.

- Smith 2443 Basic Course, 10 Lessons. Teaches up to 15 words per minute. Complete on one cassette, both sides. Includes 20 page code course instruction book for combined eye and ear study. No. 9A3181. Each **\$4.95**
 Smith 2444 Advanced Course, 12 Lessons. Teaches 16 to 25 words per minute. Complete on one cassette, both sides. Includes 20 page code course instruction book for combined eye and ear study. No. 9A3182. Each **\$4.95**

NEW AMECO CODE LESSONS NOVICE TO EXTRA CLASS ON 12" 33 1/2 RPM LP RECORDS

All lessons on both sides of 1 record, except General Class on 2 records.

- No. 9A3175. Up to 8 WPM **\$3.95**
 Novice and Technician, Net Each
 No. 9A3176. Up to 18 WPM **\$7.50**
 Through General Class, Net Each
 No. 9A3177. 12 to 15 WPM **\$3.95**
 General Class Supplement, Net Each
 No. 9A3178. 13 to 22 WPM **\$3.95**
 Extra Class, Net Each
 No. 9A3179. 19 to 24 WPM **\$3.95**
 Extra Class Supplement, Net Each



NEW 33 1/2 RPM CODE LESSON RECORDS

LEARN CODE THIS QUICK, EASY WAY!



Novice Code Course, 12-inch record, recorded on both sides. Progresses in ten lessons from 1 to 15 words per minute. With 20 page instruction booklet. International Morse Code printed on record jacket. **\$4.80**

- No. 9A3077 Each
 Advanced Code Course, 12-inch record, both sides. Twelve lessons at 16 to 25 words per minute. With 20 page Advanced Code Instruction Booklet. **\$4.80**
 No. 9A3078 Each
 Save on Complete Novice and Advanced Code Course. No. 9A3079. **\$9.00**

Both 12-inch Records as above. For **\$9.00**

SAMS INTERNATIONAL CODE TRAINING SYSTEM
 Specially programmed charts and recordings teach receiving and sending speeds up to 22 WPM. Enables transcribing code messages at 2-3 WPM in just a few minutes without memorizing code characters. 96 pages, 7 x 7", plus recording, Wt. 1 lb. No. 9A3090. With 3 33 1/2 LP Records **\$7.50**
 No. 9A3199. With Tape Cassettes **\$10.95**

AMECO TECHNICAL BOOKS

COMMERCIAL RADIO THEORY COURSE. Gives sufficient information to pass FCC examination for First and Second Radiotelephone Licenses. Written in a simple, easy-to-understand manner. Starts at the very beginning with basic electricity, and continues through radio transmission and reception. All information required by the FCC Study Guides is covered in this course. There are 18 lessons, at the conclusion of each lesson there are questions presented in exactly the same manner as on the FCC examination. By going through this book carefully, a prospective operator should achieve the same results if he had taken a home study course of residence course costing hundreds of dollars. 448 pages. No. 16A1236. 15-01. Each **\$5.95**

COMMERCIAL RADIO FCC STUDY GUIDES. Brand new up-to-date study guides containing FCC questions and easy-to-understand answers, plus FCC-type multiple choice practice exams.

- No. 16A1169. Elements 1, 2 and 9 for 3rd class permit, 48 pages. Ameco 8-01. Each **75c**
 No. 16A1170. Element 3 for 2nd class telephone license. 160 pages. Ameco 9-01. Each **\$1.95**
 No. 16A1171. Element 4 for 1st class radiotelephone license. 80 pages. Ameco 10-01. Each **\$1.25**

RADIO AMATEUR THEORY COURSE. A complete, simplified home study theory course in radio covering the requirements for the Novice, Technician and General Classes of Radio Amateur Operator Licenses. Contains 14 lessons, 3 study guides and over 400 FCC-type multiple-choice questions, similar in content and format to the actual FCC test—all under one cover. No. 16A1172. 256 pages. Ameco 102-01. Each **\$3.95**

RADIO ELECTRONICS MADE SIMPLE. This book explains radio theory completely in a simple, non-technical manner. No previous radio background is required in order for the reader to understand the book. It starts with basic electricity and covers all phases of radio, right up through transmitters and receivers. Ideal for the beginner, the serviceman, the electronics experimenter. No. 16A1173. 191 pages. Ameco 3-01. Each **\$1.95**

RF INTERFERENCE FILTERS

TWO-TERMINAL SERIES FEED THRU—CASE GROUNDING
 Popular for quieting ignition, generator and regulator noises in mobile radio installations and for by-passing AC input to transmitting equipment. Type NFF-315D has flanged bulkhead mtg., illustrated at far left; NFF-055B-1 has bracket mtg. Average wt. 2 oz.



Stk. No.	Type	Mfd.	Amps.	Voltage	Dia.	Length	Each
15B988	NFF-055B-1	.5	40	50 V. DC	1 1/2"	1 1/2"	\$3.03
15B987	NFF-315D	1	20	600 V. DC	1 1/2"	1 1/2"	2.16

BARKER & WILLIAMSON CHOKES

B & W FILAMENT CHOKES for Grounded Grid Amplifiers. Broadband characteristics from 80 through 10 meters, no tuning. Use with regular filament transformers. Sturdy steel case with mounting brackets.

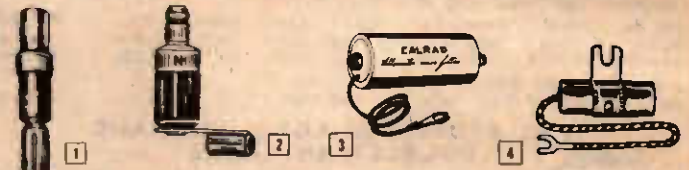
No. FC-15A for total of 15 amp current to one or two tubes. Size 2 x 2 1/2 x 5". Wt. 2 lbs. No. 9A3026. Net Each **\$19.95**

No. FC-30A improved model for one or two tubes requiring total of 30 amps filament current. Size 2x2 1/2x5". Wt. 2 lbs. No. 9A3027. Net Each **\$23.95**

No. 800 B & W RF Plate Choke. Ideal for transmitter parallel or series fed circuits, 80 through 10 meters. Maximum rating 2500 V. DC at 500 milliamperes. 6x3/4" steelite core, threaded for mounting with 1/4-20 screws. Wt. 6 oz. No. 9A3028 Net Each **\$5.49**



AUTO RADIO NOISE SUPPRESSORS



① Master Distributor Suppressor. Sure cure for most all ignition noises. For use separately, or in severe cases, with individual suppressors. No. 38A8009. Net Each **95c** 10 Lots, Each **85c**

② High Efficiency Spark Plug Suppressor. No. 38A8010. Pkg. of 2 For **98c**

③ Alternator Noise Filter. Cures interference in your CB or ham receiver or stereo player caused by the alternator. Encapsulated, long life design. Easy to install. Size 2 1/2 x 1 1/4". Shpg. wt. 1/4 lb. No. 38A8000. Imported. Net Each **\$2.95**

④ Generator Filter .5 uf. @ 250 Volts for auto radios. Metal encased with insulated lead. Wt. 2 oz. No. 15A5165. Spec. Each **29c** 10 Lots, Each **23c**

AUTO RADIO IGNITION NOISE ELIMINATOR KITS

In handy kits, the needed suppressors, condensers, etc., for a complete installation. Easy to install by anyone. No. 38A8012. For 8 and 6 Cyl. Cars. Per Kit **\$3.49**

B & W MINIDUCTORS

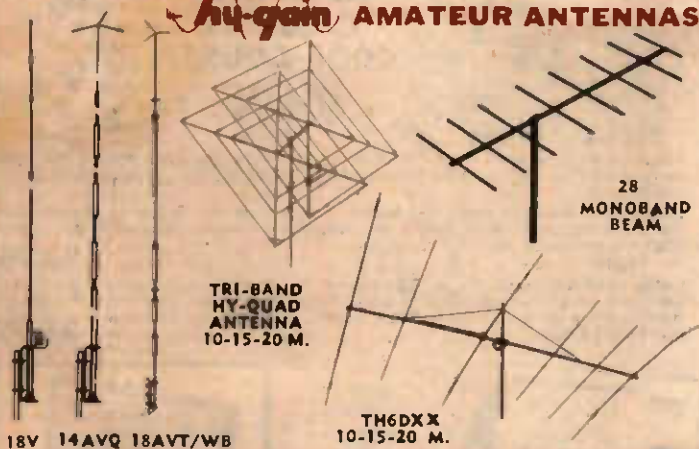


"Air-Wound" construction for very efficient operation as tank coils, RF chokes, etc. Easily cut to required length. 1/2" and 3/8" dia. coils are 2" long; 3/4" and 1" are 3" long; 1 1/4" and 1 3/4" are 4" long. Wt. 4 oz.

Stock No.	Mfg. No.	Turns Per Inch	Coil Dia.	Price	Stock No.	Mfg. No.	Turns Per Inch	Coil Dia.	Price
9A3004	3001	4	1/2"	\$1.20	9A3015	3014	8	1"	\$1.46
9A3005	3002	8	1/2"	1.26	9A3016	3015	16	1"	1.59
9A3006	3003	16	1/2"	1.38	9A3017	3016	32	1"	1.71
9A3007	3004	32	1/2"	1.43	9A3018	3017	4	1 1/4"	1.38
9A3008	3006	8	3/8"	1.26	9A3019	3018	8	1 1/4"	1.64
9A3009	3007	16	3/8"	1.38	9A3020	3019	16	1 1/4"	1.95
9A3010	3008	32	3/8"	1.43	9A3021	3020	32	1 1/4"	2.07
9A3011	3010	8	3/4"	1.50	9A3022	3021	4	1 3/4"	1.64
9A3012	3011	16	3/4"	1.56	9A3023	3022	8	1 3/4"	1.70
9A3013	3012	32	3/4"	1.76	9A3024	3023	16	1 3/4"	2.00
9A3014	3013	4	1"	1.34	9A3025	3024	32	1 3/4"	2.13

AMATEUR ANTENNAS AND ACCESSORIES

Hy-gain AMATEUR ANTENNAS



18V 14AVQ 18AVT/WB
MULTI-BAND VERTICALS—52 OHM COAX FEED

Stk. No.	Model	Description	Wt. Lbs.	Net Each
9A153	18V	Coil Loaded, 10 thru 80 M., 18' high	5	\$21.95
9A160	14AVQ/WB	10 thru 40 M., 18' high—Trap design	10	39.95
9A7029	18AVT/WB	10 thru 80 M., 25' high—Trap design	13	59.95
9A127	14RMQ	Roof Mount Kit for 14AVQ	8	19.95
9A203	LC80Q	Coil, Adapts 14AVQ for 80 M. Operation	2 1/2	12.95

TRI-BAND HY-QUAD ANTENNA

10-15-20 Meters, 2 Elements. One feed line handles maximum legal power. Gain 8.5 db. Front to back ratio 25-35 db. Extra heavy duty design—wind survival 100 MPH!
All the parts are included boom, wire, hardware. Spreaders are aluminum broken at strategic electrical points by cycloac insulators. Individually tuned Gamma match on each band, VSWR 1.2:1 or better at resonance, with 52 ohm coaxial feed line. Boom, 8 ft. x 2" dia., has boom-to-mast bracket that tilts and mounts on any mast 1 1/4" to 2 1/2" dia. Length of spreaders 305". Turning radius 13'6". Wt. 42 lbs.
No. 9A7002, Net Each..... **\$129.95**

MONOBAND VHF BEAMS

New Total Performance Beams. Seamless aluminum tubing, machine formed heavy brackets MIL spec. Iridited, F/B ratio 20-30 db. VSWR 1.5:1 at resonance. Max. wind survival 100 MPH.

Stk. No.	Model	Description	Gain	Element Lgth.	Boom	Wt.	Each
9A62	28	2 M., 8 El.	14.5 db.	3 Ft.-6 In.	14 Ft.	7 Lbs.	19.95
9A170	64B	6 M., 4 El.	12.7 db.	9 Ft.-11 In.	12 Ft.	10 Lbs.	26.50

THUNDERBIRD 10, 15, 20 METER BEAMS

Feature the new frequency stabilized Hy-Q Traps, offering better performance and mechanical reliability. Beta matched 52 ohm coax feed. Handles maximum legal power. F/B ratio 20-25 db.

Stk. No.	Model	Description	Gain	Lgth.	Boom	Wt.	Net Each
9A162	TH3MK3	3 Elements	8 db.	28 Ft.	14 Ft.	36 Lbs.	\$144.95
9A163	TH6DX	6 Elements	8.7 db.	31 Ft.	24 Ft.	62 Lbs.	\$179.95

FERRITE BALUN MATCH for 10-80 Meters.
No. 9A23. Model BN86. Wt. 1 lb. Net Each..... **\$14.95**

INSULATORS FOR LONG WIRE AND DOUBLET ANTENNAS

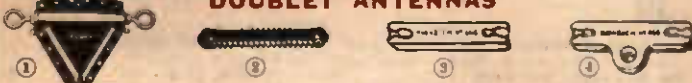


Fig. 1 and 2 are molded high strength Cyclocac.
Fig. 3 and 4 are glazed porcelain. Fine for receiving antennas.
1 No. 9A173. HyGain CI heavy duty center insulator. Each..... **\$4.95**
2 No. 9A174. HyGain EI heavy duty end insulator. Pair for..... **2.95**
3 9A3029. Birnbach 668 4 1/2" porcelain end insulator. Each..... **.59**
4 9A3030. Birnbach 468 4 1/2" porcelain center insulator. Each..... **1.00**

AMPHENOL COAXIAL CABLE ASSEMBLIES



AS LOW AS
\$2.25

FOR CB—AMATEUR—MONITOR RECEIVER ANTENNA CIRCUITS
Finest low-loss polyfoam coax. attached PL259 plugs, factory assembled to save time and money.

Stk. No.	Description	Wt.	Net Each
2A4000	3 ft. RG 58/U, PL-259 Both Ends	3 oz.	\$2.25
2A9986	20 ft. RG 58/U, PL-259 Both Ends	1 lb.	3.25
2A4002	20 ft. RG 58/U, PL-259 One End, Spade Lugs on Other End	1 lb.	2.85
2A9979	50 ft. RG 8/U, PL-259. Both Ends	6 lbs.	9.25
2A9980	100 ft. RG 8/U, PL-259. Both Ends	11 lbs.	15.90

"BLITZ BUG" COAX CABLE LIGHTNING ARRESTOR



Added lightning protection for receiving and transmitting equipment, ham gear, citizens band transceivers etc. using 52 ohm or 72 ohm coaxial antenna lead. Shpa. wt. 1 lb.

No. 10A3001. Cushcraft LAC-1. Threaded for standard PL259 connector one end, SO239 connector other end. Each..... **\$3.95**
No. 10A3038. Cushcraft LAC-2. Threaded for PL259 connectors both ends. Each..... **\$4.45**

HUSTLER MOBILE HAM ANTENNAS

Power Rating To Handle All Popular Amateur Transceivers
• 52 Ohm Feed • Any Length Line

① STANDARD HUSTLER RESONATORS With Adjustable Top Whip Section For Use With FOLD-OVER MAST Below

Stk. No.	Type	Band	Coil Size	Total Lgth.	Each
9A117	RM-10	10M	3/8x3 3/4"	21-26"	\$8.50
9A42	RM-11	11M	3/8x4 5/8"	21-26"	8.50
9A116	RM-15	15M	3/8x4 5/8"	22-27"	9.50
9A107	RM-20	20M	3/8x6 1/4"	24-29"	10.50
9A106	RM-40	40M	1 x 6 1/4"	33-38"	12.50
9A105	RM-75	75M	1 3/8x8 1/4"	37-43"	14.50

SUPER HUSTLER RESONATORS

High power type. Will handle legal power limit on SSB. With adjustable top whip section. For use with fold over mast below.

Stock No.	Type	Band	Total Length	Net Each
9A235	RM10S	10 M.	21-26"	\$11.95
10A7071	RM-11S	11M	21-26"	13.95
9A236	RM15S	15 M.	22-27"	13.95
9A221	RM20S	20 M.	29-34"	15.95
9A222	RM40S	40 M.	38-23"	19.95
9A223	RM75S	75 M.	43-37"	24.95

① FOLD OVER MASTS ONLY

Designed for rapid coil changing or garaging. For use with resonators above. Tempered 1/2" aluminum, 3/8"-24" base. Use MO-1 for rear deck or fender mounting, MO-2 for bumper mount. Wt. 4 lbs.

No. 9A103. MO-1, Length 54", folds 15" from base. Net Each..... **\$11.95**
No. 9A104. MO-2, Length 54", folds 27" from base. Net Each..... **\$12.25**

RESONATOR SPRING

Model RSS-2. Stainless steel spring designed for use between resonator and Hustler antenna mast. Has 3/8"-24 thread female on one end and male on the other. Shpg. wt. 1/2 lb.
No. 10A3064. Each..... **\$4.75**

"HAMCAT" MOBILE ANTENNAS

New, almost indestructible high power precision wound coils on epoxy fiberglass sleeve. Exhibit high "Q" and wide bandwidth with very low heat loss. Distinctive white fibre glass jacket with heavily chromed brass fittings. 52 ohms impedance, very low VSWR.

Stk. No.	Type	Band	Shpg. Wt.	Net Each
9A7008	253	10 M.	3 Lbs.	\$10.95
9A7007	254	15 M.	3 Lbs.	12.95
9A7006	255	20 M.	3 Lbs.	15.95
9A7005	256	40 M.	4 Lbs.	17.95
9A7004	252	75 M.	4 Lbs.	19.95

MOBILE FOLD-OVER MAST

Turn-over mast is hefty 3/8" solid heat-treated aluminum. Folds, swivels, mounts on trunk or deck. Shakeproof sleeve clutch releases fold-over hinge. Stainless steel swivel base. 3/8"-24 thread. Wt. 6 lbs.
No. 9A7003. HyGain 257. Takes coils above 3/8"-24 base. Each..... **\$16.95**
No. 9A27. Type 492 Spring. Mounts below coil. Each..... **\$2.98**



MOBILE ANTENNA MOUNTS

BODY MOUNTS 3/8"-24

- ① 9A29. Chrome swivel body mount. Hy Gain BDYF. Net Ea..... **\$6.50**
- ② 9A38. Jiffy Mount. Fits under deck lid. Hy Gain JMS. Net Each..... **\$5.95**
- ③ 9A237. Deluxe Swivel Body Mount. Chrome Plated. Coax adaptor. Ant. Spec. M13. Net Each..... **\$7.75**
- ④ 9A238. Aluminum Swivel Body Mount. Ant. Spec. M3. Net Each..... **\$4.95**
- ⑤ 9A3095. Insulated gutter clip. Hy Gain GCP. Net Each..... **\$1.50**
- ⑥ 9A64. Stainless Steel Strap Bumper Mount. Hy Gain BPR. Net Each..... **\$8.95**
- ⑦ 9A161. Double Chain Bumper Mount. Ant. Spec. AM191. Net Each..... **\$10.45**
- ⑧ 9A239. Cadmium Plated Spring. Will support 102" whip. Ant. Spec. M3A. Net Each..... **\$3.95**
- ⑨ 9A240. Chrome plated spring. Deluxe version of above. Ant. Spec. M3AD. Net Each..... **\$4.95**
- ⑩ 9A46. Deluxe Chrome Spring. Hy Gain SPC. Net Each..... **\$5.95**
- ⑪ 9A26. Heavy Duty Chrome Spring. Hy Gain SPC. Net Each..... **\$8.95**
- ⑫ 9A27. Miniature Stainless Steel Spring. Hy Gain SPCM. Net Each..... **\$2.98**

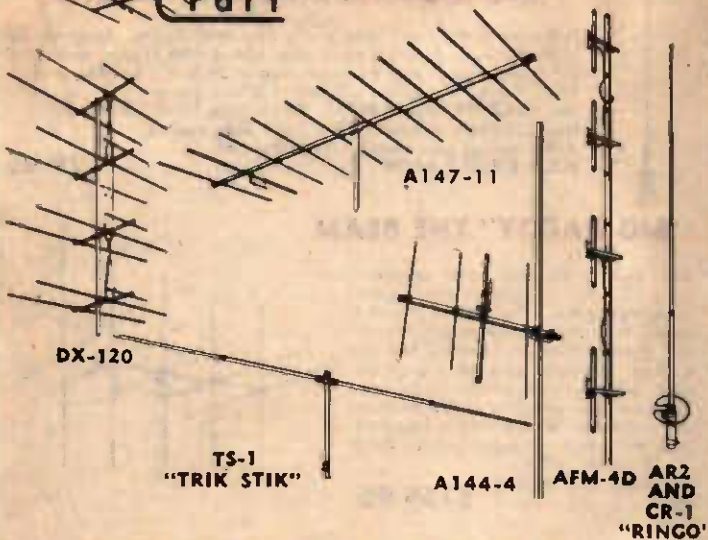
Amateur and Commercial Whips, 3/8"-24 Mounting

- Highest quality stainless taper ground, cuttable to freq.:
- ① 9A101. Commercial 60" Steel, 48 MC or higher. Each..... **\$5.75**
- ② 9A48. Commercial 96" Steel, 29 MC or higher. Each..... **\$7.50**
- ③ 9A49. CB and Amateur 102" Stainless Steel, 27 MC or higher. Each..... **\$6.95**

AMATEUR AND CITIZENS BAND ANTENNAS

**Cush
Craft**

**COMMUNICATIONS
ANTENNAS**



DX-120 2 METER AMATEUR 20 ELEMENT ARRAY
Combines best yagi and colinear features for 14.2 db forward gain, 20 db F/B ratio, low radiation angle, optimum front lobe, broadband coverage, greater capture area and direct 52 ohm feed. Size installed 118" H., 75" W., 30" D. Wt. 8 lbs.
No. 9A7011. Model DX-120. Net Each **\$29.50**

TS-1 "TRIK STIK" ALL-PURPOSE ANTENNA
The answer to literally hundreds of antenna problems. Adjustable length elements tune to CB, Hi-Lo Bond Police, Aircraft, Business Radio, SWL, Amateur, TV or FM. Comes with dimension chart for each service 27 to 150 MHz. Use either 52 or 72 ohm feed line. Wt. 2 lbs.
No. 10A7036. Model TS-1. Net Each **\$8.95**

A147-11 11-ELEMENT YAGIS
The standard of comparison in VHF beams! Frequency cut for FM operation and vertical polarization. Forward gain 13.2 db. Has 52 ohm coax feed and takes PL259 connector. Boom length 144". Turning radius 7". Shpg. wt. 7 lbs.
No. 9A7044. Model A147-11. Each **\$17.95**

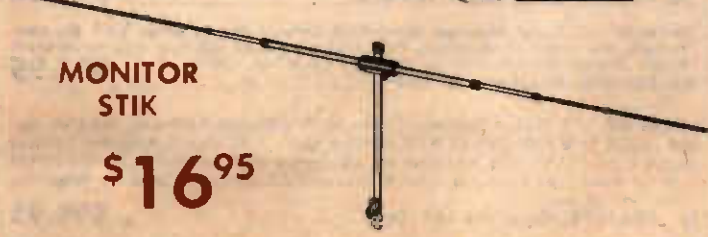
A144-4 4-ELEMENT YAGI
Rear bracket for mast or tower side mount. Forward gain 9 db. Boom length 44". Has 52 ohm Reddi match and takes PL259 connector. 146-148 MHz. Shpg. wt. 3 1/2 lbs.
No. 9A7045. Model A144-4. Each **\$9.95**

AFM-4D 4-POLE 2-METER FM ANTENNA
Up to 9 db gain over a 1/2 wave dipole. Overall antenna length 23"; pattern 360° 6 db gain, 180° 9 db gain, 52 ohm direct feed. Takes PL-259 connector. Package includes 4 complete dipole assemblies on 10" mounting booms, complete harness and all hardware. Vertical support mast not supplied. Will take up to a 2" O.D. mast.
No. 9A7025. Model AFM-4D. Net Each **\$42.50**

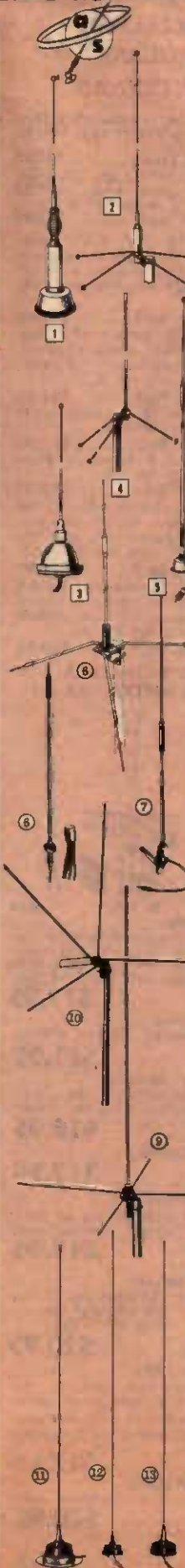
AR-2 RINGO 2-METER FM ANTENNA
3.75 db gain; (reference 1/4 wave ground plane). Full half wavelength. Overall antenna length at 147 MHz 42", ring dia. 5" direct DC ground, 52 ohm direct feed. Takes PL-259 fitting. Low angle of radiation, factory pre-assembled and ready to install. Takes up to a 1 1/4" O.D. mast, 1-1 SWR.
No. 9A7024. Model AR-2. Net Each **\$12.50**

CR-1 "RINGO" CITIZENS BAND BASE ANTENNA
Highly acclaimed by users because of outstanding performance. Requires no radials. Full length capture area gives amazing 3.75 db gain, full circle, with low angle radiation. Power ring gives perfect 52 ohm feed line match. Height 17 ft. 10 in. Ring dia. 10". Wt. 2 lbs.
No. 10A7035. Model CR-1. Net Each **\$21.50**

**Cush
Craft**



MONITOR STIK
\$16⁹⁵
Use with any coax-input - single, dual, or three band receiver. It automatically scans the 30-50, 135-175 and 450-470 MHz bands. Can greatly increase the range of your receiver. Built-in coax fitting takes a PL259 connector. Complete instructions supplied so even the non-technical person can assemble and install monitor stick in a minimum of time.
No. 9A7043. Model MS-2. Each **\$16.95**



① ANTENNA SPECIALISTS MONITOR ANTENNA
Mobile Model MON-16 Antenna 118-174 MHz 3 db gain on "Quick-Grip" trunk mount. Installs quickly — easily. Includes 17' 50 ohm coax cable and PL259 connector. Stainless steel whip and spring.
No. 9A7026. Each **\$21.95**

② Model MON-17 Antenna 118-174 MHz 3 db gain.
Mounts on 1 1/2" (or less) pipe. Stainless steel radiator/radials. 38" radiator—24" radials. Order cable below.
No. 9A7027. Each **\$21.95**

③ Model MON-1 Mobile Antenna. Universal—location mobile antenna covering the entire 118-174 MHz plus the 450-470 MHz range when cut to approximately 6".
Cutting chart included. Mounts on roof top or any flat deck location, excellent reception. Pin plug connection plus adaptor for SO-239 connections. Complete with 15' RG-58/U cable.
No. 9A7019. Each **\$7.95**

④ Model MON-3 Base Station Antenna. Universal antenna for any base application where professional monitoring capability is a must on Aircraft, Business and public safety bands from 118-470 MHz (450-470 MHz when cut to approx. 6". Cutting chart included.)
Stainless steel radials, rugged construction. Mounts on any pole or mast top to 1 1/4" diameter—cable not supplied. Termination for PL-259. Order cable below.
No. 9A7020. Each **\$8.95**

⑤ Model MON-13 Antenna. "Quick-Grip" all-band mobile monitor antenna. Features A/S exclusive "Quick Grip" mount for trunk lip installation. No holes to drill, installs in minutes. Adjusts to specific frequency or covers entire business and public safety bands from 25-174 MHz. Includes 16' lead and pin plug connection plus adaptor for SO-239 connections.
No. 9A7028. Each **\$16.95**

⑥ Model MON-8 Combination Base Station Antenna. Multiple loading coil design for 25-50 MHz and 118-174 MHz. No tuning necessary. Designed for extended omni-directional reception, SO-239 connection. Order cable below. Mounts on 1 1/2" (or less) pipe.
No. 9A7046. Each **\$19.95**

⑦ Model MON-12 Gutter Clamp Antenna. Covers 25-174 MHz. 10 ft. lead with pin jack plus adaptor for SO-239 connections.
No. 9A7047. Each **\$12.95**

⑧ Model MONR-10 Replaces Standard AM Antenna. Receive AM and 25-174 MHz simultaneously. Adjustable whip. With coupling harness and with pin jacks and adaptor for SO-239 connections.
No. 9A7048. Each **\$26.95**
No. 9A3191. MM56. 100' RG58/U Cable with PL-259 connector each end. Each **\$8.95**

HYGAIN 2 METER UHF ANTENNAS

⑨ Colinear Gain Ground Plane. Single element omnidirectional gain antenna. Vertically polarized, it delivers true all directional gain of 3.4 db in measured field strength intensity. Vertical radiator of seamless aluminum tubing. Radials are 1/4" solid aluminum rod. VSWR less than 1.5:1. Radiator length 4 ft. Radial lengths 19" Radiator dia. 7/16" Radial dia. 1/4". Mast 1" to 1-5/8" OD. SO-239 connector on antenna. Shpg. wt. 2.4 lbs.
No. 9A7038. Hy-Gain No. 338. Each **\$14.95**

⑩ Standard Ground Plane for 108 thru 470 MHz. Ruggedly constructed unity gain 1/4 wavelength ground plane supplied complete with cutting chart for tuning to any discrete frequency in the 108 thru 470 MHz frequency range. Heavy gauge seamless aluminum construction with rugged machine formed mast bracket insures lasting durability. Takes maximum legal power. Mast 1" to 1-5/8" OD. SO-239 connector on antenna. Wt. 1 1/4 lb.
No. 9A7039. Hy-Gain No. 267. Each **\$8.95**

⑪ Magnetic Mount 148-174 MHz. 3 db gain magnetically mounted antenna with performance equal to permanent mounts. Stores easily for emergency use, holds secure at 90 mph +. Stainless steel whip. Alnico magnet. 12' of RG-58U coax and PL259 connector. Shpg. wt. 2.4 lbs.
No. 9A7040. Hy-Gain No. 265. Each **\$22.95**

⑫ Magnet Mount High Band UHF Mobile. Magnetic mount holds antenna in place at speeds of up to 100 mph. Covers the 108-450 MHz range. Installs instantly, removes instantly. Aluminum flange on base is capacitively grounded so there's no need to remove paint. Comes with 18' of RG-58U and PL259 connector. Shpg. wt. 1.9 lbs.
No. 9A7016. Hy-Gain No. 262. Each **\$16.00**

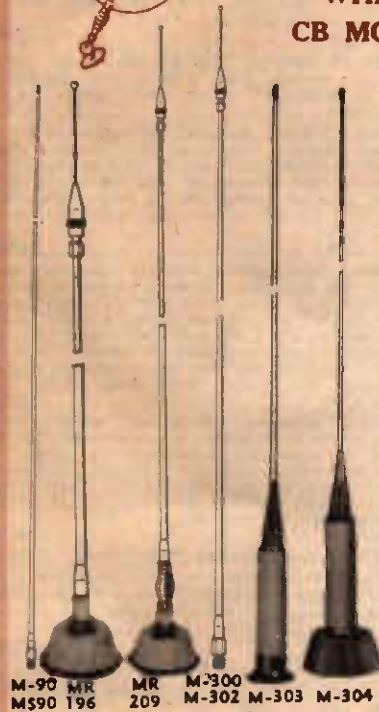
⑬ No-Hole Trunk Lip Mount 130-174 MHz. 5/8 wave 3 db gain high band antenna, plus a trunk lip adaptor and 16' of RG-58U coax and PL259 connector. Ready to install. No holes to drill, attaches with two set screws. Polypropylene skirt shapes to surface irregularities for a professional looking job. Shpg. wt. 1.4 lbs.
No. 9A7041. Hy-Gain No. 263. Each **\$19.95**

⑭ 1/2 Wavelength Roof Mount Whip for 108 thru 470 MHz. Tunable to any discrete frequency in the 108 thru 470 MHz. frequency range using cutting chart supplied with the antenna. Leakproof installation is easily accomplished from exterior surface of any vehicle using revolutionary claw mounting. Furnished with coax and PL259 connector. Shpg. wt. 1.8 lbs.
No. 9A7042. Hy-Gain No. 261. Each **\$6.70**



ANTENNA SPECIALISTS ANTENNAS

ANTENNA SPECIALISTS WHITE FIBERGLASS CB MOBILE ANTENNAS



Model M-90. 96" Mobile white fiber glass whip, 3/8"-24 thread, full 1/4 wave. Wt. 2 lbs. No. 10A7059. Each \$10.95

Model M590. 96" Mobile 2-section white fiber glass whip, 3/8"-24 thread, full 1/4 wave. Wt. 2 lbs. No. 10A7060. Each \$13.95

Model MR196. Mobile 46" tuneable white fiber glass antenna. Quick Grip trunk mount, with 17' lead and PL-259 connector. Wt. 2 1/2 lbs.

No. 10A7061. Each \$18.95

Model MR209. Mobile 48" tuneable white fiber glass antenna. Quick Grip trunk mount, 17' lead, PL-259, spring. Wt. 2 1/2 lbs.

No. 10A7062. Each \$21.95

Model M-300. 38" tuneable white fiber glass whip. Wt. 3 lbs.

No. 10A7063. Each \$11.45

Model M-302. 6' tuneable white fiber glass whip. Wt. 2 lbs.

No. 10A7064. Each \$12.95

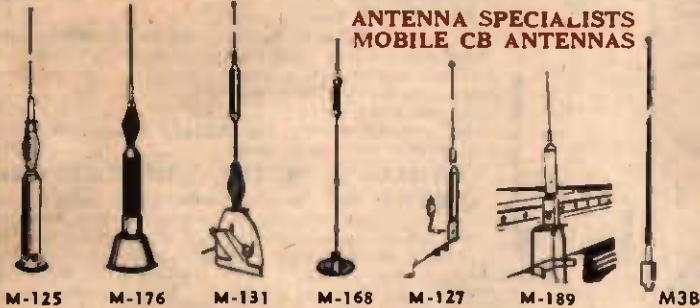
Model M-303. Mobile base loaded white fiber glass rooftop antenna, 3/8" snap-in mount, 17' lead, PL-259, spring, 46" long. Wt. 2 1/4 lbs.

No. 10A7065. Each \$19.95

Model M-304. Mobile base loaded white fiber glass antenna. Quick Grip trunk mount, 17' lead, PL-259, spring, 46" long. Wt. 2 1/4 lbs.

No. 10A7066. Each \$23.95

ANTENNA SPECIALISTS MOBILE CB ANTENNAS



MODEL M125 FOR AUTO ROOFTOP

The standard of comparison among CB users. Features exceptional performance, excellent omni-directional signal pattern and high strength. Made for fast, snap-in mounting from the outside through a single 3/8" hole. Chrome plated brass fittings, stainless steel rod and spring. 46" overall height. With 17 ft. RG58U coax and PL259 connector. Shpg. wt. 2 lbs. No. 10A7011. Model M-125 with Spring. Net Each \$17.95

MODEL M176 TRUNK ANTENNA

Antenna is like M-125 with spring. For trunk lip mounting. No hole drilling necessary. 17 ft. RG58U coax. No. 10A7013. Shpg. wt. 2 lbs. Net Each \$21.95

MODEL M-130 "MIGHTY-MITE"—ONLY 18" OVERALL

Handsome, smallest of all CB antennas, yet a very good performer. Beautifully constructed. Snap-in mounting like M-125 above. Center loaded coil design. With 20 ft. RG58U coax and PL259 connector. Shpg. wt. 2 lbs. No. 10A7014. Model M-130. Net Each \$16.95

MODEL M-131 CLIP-ON GUTTER ANTENNA

Antenna is like M130, with spring clamp mount. No. 10A7015. Shpg. wt. 2 lbs. Net Each \$17.95

MODEL M-168 "GRIP-STICK" ANTENNA

Magnetic mount just sets on roof, trunk or other flat steel surface of auto. Easy to install, no holes to drill. Center loaded coil design, stainless steel whip. With RG58U coax and PL259 connector. No. 10A7002. Shpg. wt. 2 lbs. Net Each \$17.95

MODEL M-127 FOR TRUNK GROOVE MOUNT

Installs in seconds with no visible mounting holes in car. Requires only 2 tiny holes in trunk groove, adjusts to all cars, holds securely. Stainless steel rod. Height 46". With 20 ft. RG58U coax and PL259 connector. Shpg. wt. 2 lbs.

No. 10A7021. Model M-127. With Spring. Net Each \$20.95

MODEL M-103 CB/AM-FM COMBINATION

Gleaming chrome cowl mount type for replacing existing auto antennas. Fits 7/8" to 1-3/16" mounting holes. Extends 31 to 46". Cable set with automatic coupler includes 5 ft. lead with PL259 connector for antenna, 1 ft. lead with plug for AM or FM radio and 2 ft. lead with PL259 connector for CB radio. Has Grey center loaded coil. Shpg. wt. 2 lbs. No. 10A7017. Model M-103. Net Each \$17.95

MODEL M-189 CAMPER/TRAILER ANTENNA

Rugged universal bracket holds high performance base loaded antenna with tapered whip, on side or top. 20 ft. cable. Wt. 2 lbs. No. 10A7037. Model M-189. Net Each \$20.95

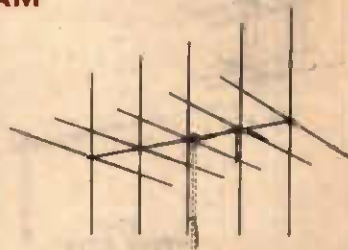
102 INCH STAINLESS STEEL WHIP
No. 9A49. Model M3B. Each \$6.95

BIG MOMMA MOBILE ANTENNA

If she burns out, we'll give you a new one. Biggest, toughest coil in the business. Stainless steel whip coated with copper and nickel for superconductivity. Radiator length 39-3/4". Loading coil 1-7/8". Factory connected. 17 feet of RG-58 cable. No. 10A7074. Model M410. Quick Grip Truck Lip Mount No. 10A7081. Model M411. 3/4" hole mount stiffer spring and smaller diameter coil. YOUR CHOICE EACH \$29.95

"BIG DADDY" THE BEAM

Dual polarity for best signal selection. Long 22' boom - optimum spacing for maximum gain. 2" diameter boom - tapers to ends for reduced wind loading. Vertical-horizontal control box included. Tuneable gamma match on each polarity - no power limitations. Forward gain equal to or better than any available. Wind rated in excess of 100 mph. Super ruggedized for long life. Shpg. wt. 42 lbs. No. 10A7080. M-216. Each \$159.95



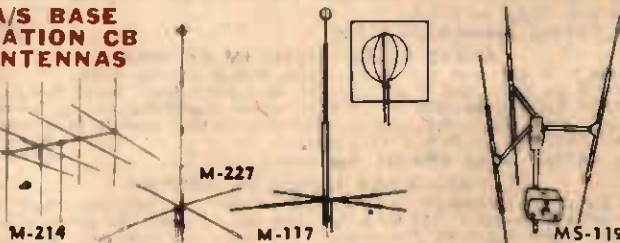
STARDUSTER OMNIDIRECTIONAL ANTENNA

Has 33.2% greater gain than any previous omnidirectional, 5.0db gain over ground plane. Reduces angle of radiation, puts out more useable signal. Power handling capability provides 500 to 1 safety factor. Accepts 1" threaded pipe or 1 1/4" mast. 17" high overall. Radials 8 ft. 10" long. 6" total dia. Weighs only 3 1/2 lbs. No. 10A7079. Model M-400. Each \$39.95

\$39.95



A/S BASE STATION CB ANTENNAS



Boss 404. Hottest CB Antenna in the air! Pure yagi design to focus beam-width to a narrow 52° with 100 watts effective radiated power from a 5 watt CB set. Precision gamma-match feeds provide an SWR of less than 1.5 to 1 with no adjustment; 1:1 to 1 if you fine tune. Optimum spacing maximizes front-to-back ratios. Boom length—17 ft. Mounting clamps accept 1" pipe. Full 1/2 wavelength elements. Wt. only 17 lbs. No. 10A7067. Model M-214. Net Each \$99.95

New! Mighty Magnum III Model M-227. Height 16 ft. 7 in. Electrically shortened radials only 60" long permit easy installation and lower wind loading. Omnidirectional gain 4 db. Half-wave height provides low angle of radiation. Wt. 10 lbs. No. 10A7034. Model M-227. Net Each \$36.95

Model M-117 Super Magnum Omni-Gain Ground Plane. Gives 3.75 db gain. Features low angle of radiation. Has rigid aluminum radiator, 4 1/4 wavelength radials. Exceptional mechanical strength. Shpg. wt. 10 lbs. No. 10A7008. Model M-117. Each \$32.95

Model MS-119. Super Scanner Omni or Directional Antenna. Rotates signal - NOT THE ANTENNA! 5.75 db omni gain. 8.75 directional gain. Vertical elements are 17 1/2' long mounted at 120° points on 3' radius circle. Requires 4 wire TV rotor type cable for scan control and 52 ohm coax lead for antennas. Shpg. wt. 17 lbs. No. 10A7078. Model MS-119. Each \$99.95

MARINE ANTENNAS

Sparkling marine white fiberglass. Center loaded. No ground plate needed. Tuneable tip allows instant peaking (not shown). No. 10A7075. Model A5M94. 4 foot Non fold-down Each \$28.95
No. 10A7077. Model MR221. 6 foot fold over base. Each \$39.50

HY-GAIN CB ANTENNAS AND ACCESSORIES

HYGAIN CB POWER METER

Provides all functions necessary to analyze your transmitted signal and antenna performance high or low power. Features watt meter with three scales . . . 10 W., 100 W., 500 W. forward. SWR scale, percentage of modulation. Classic wood grain panel and professional look enhance every CB station. Interconnection cables included. Size: 3 1/2" L X 4" W. X 4 1/4" H. Shpg. wt. 4 lbs. No. 10A3045. Model 421. Each \$39.95



RECEIVER PRE-AMP

Provides a tunable receiver preamplifier capable of up to 20 db gain on all 23 channels. On-the-air-symbol. Automatic protection switching. Operates on 12 volts DC and 110 Volts AC. Shpg. wt. 2 lbs. No. 9A3228. HyGain No. 422. Net Each . . . \$59.95



ANTENNA MATCHER

Minimize your power loss. Lower your SWR. Maximize your efficiency. Will match any antenna, regardless of SWR. Handles up to 500 watts. Shpg. wt. 12 oz. No. 9A3229. HyGain No. 477. Net Each \$9.95



TV INTERFERENCE FILTER

Low pass television interference filter for all CB rigs. Reduces most harmonious and spurious signals. Handles up to 300 watts. No. 9A3230. HyGain No. 476. Net Each \$9.95



LINEAR AMPLIFIERS FOR 25-50 MHZ BUSINESS AND AMATEUR 10 METER BAND

220 WATTS PEP BI-LINEAR LINEAR AMPLIFIERS

MORE POSITIVE POWER PER WATT DRIVE

\$139.95



ILLEGAL FOR USE ON 11 METER CB BAND

Now, you can get maximum signal COMING and GOING! The Bi-Linear amplifies weak signals 20 db to receive PLUS unsurpassed power boost on transmit.

The Bi-Linear goes to work the instant you key your microphone, giving your communications system 220 watts PEP of real "talk power." Will multiply the range of any low power transceiver or transmitter (1-15 watt output) in the 25-54 MHZ business band and may also be used in the Amateur 6 or 10 meter bands on FM, AM, SSB, DSB, or CW. Built-in tuning meter included. Separate switches for: AM-FM or SSB-DSB/Pre-Amp On-Off/Transmit Standby/Power On-Off. Easy to hook up with no internal connections required.

F.C.C. type accepted under parts 89, 91 and 93 over the frequency range 25-40 MHZ.

Size: 4 1/8" x 7 1/8" x 10 3/8". Wt. 12 lbs. No. 10A64, 115 VAC Base Unit - Model 482. Net Each \$139.95
12 VDC Mobile Unit with mounting bracket. Wt. 9 lbs. No. 10A65, Model 483. Net Each \$159.95



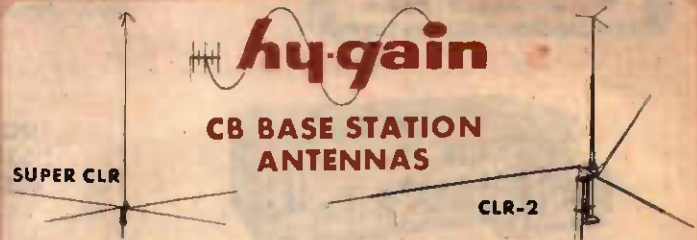
BI-LINEAR 600 WATTS P.E.P. RF DECKS

\$159.95



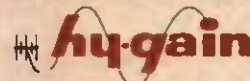
Grid driven for optimum linearity and low distortion. Dust free covered relays built in receiver preamplifier. For extra high power, will operate over the frequency range 26-35 MHz, is FCC Type accepted under parts 89, 91, and 93 over the entire frequency range. Size: 7 1/8" x 3" x 12". Wt. 5 1/2 lbs. (for 10 meter amateur use only). Less power supply. No. 10A3072, Model 600. Each \$159.95

120 VAC Base Power Supply. Size: 9" x 6" x 6". Wt. 25 lbs. No. 10A3074, Model 601. Each \$109.95
12 VDC Mobile Power Supply. Size: 6" x 8" x 3 3/4". Wt. 8 lbs. No. 10A3073, Model 602, Each \$159.95



NEW! SUPER CLR THE PENETRATOR. The only antenna you can buy that'll outperform the HyGain CLR2. Full 5/8 wave (22'9 1/2") radiator concentrates your power even closer to the ground . . . where you want it. The Penetrator is capable of pumping out up to 1,500 watts. Advanced double-matching-tuning and linear phasing for low SWR give you a new standard of electrical performance. Four full length radials for more radiated energy . . . boost your talk power. Perfect 52 ohm to match your transceiver. High strength aircraft type aluminum. Specifically designed to accept AM-FM-SSB-DSB signals low loss. New top discharges more static. Recessed coax connectors. Double-matching and linear phasing eliminate contained transformers and frequency drift due to heat. Shpg. wt. 10 lbs. No. 9A 7037. HyGain No. 500. Each \$39.95

CLR-2 COLINEAR. Embodies every significant electrical and mechanical innovation. Radiator height of 19 ft., 10 in. lowers the angle of radiation directing a maximum distance-reaching signal along the horizon. Radiator and 9 ft. radials are all high strength seamless aluminum. Has tough styron insulators and iridated weatherproof double grip mast support. DC grounded for lower noise, from 4 db gain in improved signal-to-noise ratio. Wind survival 100 mph. No. 10A7003. Model CLR-2. Wt. 7 lbs. less coax and mast. Ea. . . \$32.95

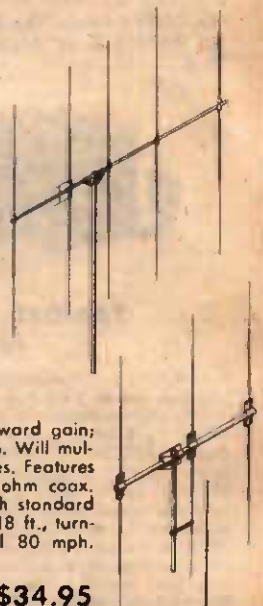


LONG JOHN 5-ELEMENT ROTATABLE BEAM

- 12.3 DB FORWARD GAIN
- 24 FT. BOOM LENGTH
- TREMENDOUS RANGE

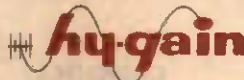
Base station to mobile, or point-to-point, the Long John will multiply your power 18.4 times. It's by far the most powerful single beam antenna commercially manufactured for Citizens Band.

Features heavy-wall aluminum elements and super strength taper swaged tubing. Elements are optimum spaced on the 2" O.D. boom to insure maximum theoretical gain. The driven element is at DC ground for improved signal-to-noise ratio and lightning protection. Power multiplication 18.4 gain 12.3; front-to-back ratio 25 db; SWR 1.05:1. Boom length 24 ft. Shpg. wt. 24 lbs. No. 10A7072, Model 410. Net Each \$59.95



CB3 . . . 3 ELEMENT BEAM

An outstanding performer . . . delivers 8.2 forward gain; 20 db average F/B ratio; and, 40 db F/S ratio. Will multiply your transceiver's output power by 6.6 times. Features exclusive Hy-Gain Beta Match. Feeds with 52 ohm coax. Full sized 1/2 wave-length elements. Rotates with standard TV rotator. Boom length 8 ft., longest element 18 ft., turning radius 4 ft., and maximum wind survival 80 mph. Weight 9.8 lbs. No. 9A7036. Hy-Gain No. 533, Net Each \$34.95



GOLDENROD

A ruggedly designed low-cost high performance vertically polarized, omnidirectional base station antenna. Develops transmitting gain of 3.8 db. Short arcuate radials for easy installation anywhere. Overall height 212". Shpg. wt. 5 1/2 lbs. No. 10A7069. Model 579. Each \$21.95



FIELD STRENGTH AND SWR METER

A combination unit that will give relative field strength readings in forward and reflected power. Coaxial fittings allow permanent installation for constant monitoring of transmitter output. Meter has sensitive 100 micro-amp movement with two-color, bold, easy-to-read scale. SWR: 1:1 to 1:3. Accuracy ± 5%. Impedance: 52 ohms. 9" telescopic antenna. Overall: 6" H. x 2" W. x 2 3/4" D. Shpg. wt. 1 1/2 lbs. No. 10A3039. Midland Model 23-126. Each \$12.95



DUMMY LOAD/MODULATION INDICATOR

Light indicates amount of modulation—serves as dummy load for testing. 52 ohm. VSWR 1.1:1. 5-watt capacity. With bulb and standard PL-259 connector. Shpg. wt. 1/2 lb. No. 10A3041. Each \$2.49

SBE

SSB and AM CB Equipment for Mobile & Base Station

HIGH PERFORMANCE, BIG VALUE, GREAT FUNCTIONAL FEATURES!



SUPERCONSOLE 23 CHANNEL SSB/AM BASE STATION With 8 Channel, VHF/FM Hi-Lo "Scanner"

The most of the best—offering every feature for highest reliability in routine REACT and emergency CB operation plus simultaneous VHF, Hi-Lo monitoring! The basic radio, contained in a fine looking, grained-wood housing, is the superlative performing Sidebander for full 15 watts p.e.p. input on SSB, 5 watts AM. Set has 23 channels, synthesized—no crystals to buy. Features: Built-in 117 VAC supply. Unit will switch to external 12V battery if power fails. Electric clock w/timer. Meter shows output power/VSWR also signal strength. Squelch. Noise limiter. Separate Hi-Lo receiver sequentially scans any of 8 pre-selected channels, locks on first channel in which signal appears, resumes scanning when signal goes off. Any channel can be locked out. With suitable crystals, Lo (30-50MHz) or Hi (150-170 MHz) channels can be scanned in any combination.

Telescoping antennas and dynamic microphone are supplied. Size: 6 1/2" H x 19 1/2" W x 10" D. Shpg. wt. 18 lbs.

No. 10A99. Model SBE-14CB. Each ... **\$589.95**
No. 9A3211. Crystals (specify frequency)
Each **\$4.95**



TRINIDAD, SYNTHESIZED 23 CHANNEL AM, CB BASE STATION

A complete, full featured base station at an affordable price is housed in a luxurious wood grain cabinet with attractive low silhouette and shape found usually only in expensive Hi-Fi and similar equipment. Panel is dull black highlighted by brightly plated knobs, accented by colorful lighted meter scale and channel dial. An outstanding performer, Trinidad has 23 channels, synthesized so no crystals needed. Set delivers full output, has high modulation capability. 117 VAC power supply is built-in.

Features: Sensitive receiver has low noise level. Delta Tune control "zeros in" off-frequency signals for maximum clarity. Meter reads output power, VSWR, "S" units on receive. Squelch and noise limiter included. Set has earphone jack, PA provisions. Dynamic microphone w/p-t switch and coil cord is provided. Size: 5 3/4" H x 17 3/4" W x 8 3/4" D.

No. 10A100. Model SBE-11CB. Shpg. wt. 14 lbs. Each **\$179.95**

100X, SSB/AM, DESK DYNAMIC MICROPHONE



Exclusive desk top design has dynamic element for crisp, distinctive speech, both SSB and AM. Solid-state amplifier in heavy base has 40db adjustable gain, matches SBE, other makes of CB equipment. PTT/Lock-in switch has split-tab action. Coil cord and plug are provided. Requires 9 volt battery listed below.

No. 10A3080.
Each **\$39.95**

SPECIAL OFFER

When purchased with SBE-8, 11, 12, or 14
Only **\$29.95**
No. 21B141. 9 volt battery
Ea. **54¢**



CONSOLE, 23 CHANNEL, SSB/AM CB BASE STATION

The SBE "Sidebander" with exclusive "power pump" is the surging communications force in a handsome, high-style CONSOLE with cabinet finished in rich, natural-wood-grain pattern. Sidebander control arrangement is retained. An electric clock with settable alarm is integrated into the panel design. Switches are rocker-arm type—RF attenuator is vertical. Indicator lamps add important color coding, show power ON, modulation intensity on AM. VOX (voice operated relay) is available accessory. Set is all solid state.

Features: Built-in AC supply. Set will switch automatically to external 12V battery if power fails. 23 channels, synthesized. 15W p.e.p. w/both USB and LSB. 5W input on AM. Panel meter reads SSB or AM output power on transmit, relative signal strength on receive, also VSWR. Built-in speaker. PA provisions w/external accessory speaker. Dynamic microphone supplied.

No. 10A81. Model SBE-8CB. Each **\$429.95**
No. 10A82. Voice-Operated Relay
Model 8CB-VOX Each **\$19.95**

CORONADO II, "TWINESIZER"

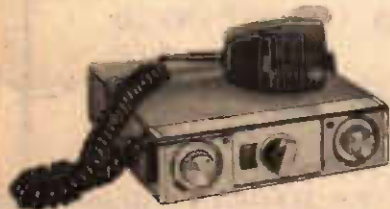


WITH TWIN, 23 CHANNEL DIALS FOR MANUAL OR ELECTRONIC "SCANNING"

Synthesized ... all crystals supplied. Twin dials allow fast check of all CB channels for best contacts, least interference. Any two channels can also be "scanned" continuously. Strong signal on channel "locks in", scan continues when channel clears. Lights show active-channel. Ideal for monitoring REACT, HELP, Channel 9 and any other regularly used channel. Perfect for mobile channel-check without taking eyes off road. Almost like having two receivers in a single cabinet!

Features: Handsome, colorful styling. All solid state. 5 watts input, deep modulation. Sensitive superhet receiver w/very low noise level. Noise limiter. Adjustable squelch. Speaker built-in. PA provisions. 12VDC operation. Dynamic microphone and mobile mounting bracket supplied. Size: 2 1/2" H x 8-3/8" W x 9-3/8" D. Shpg. wt. 8 lbs.

No. 10A102. Model SBE-10CB. Each **\$229.95**
No. 10A83. Model SBE-3AC. Each **\$42.50**



CATALINA, AM MOBILE 23 CHANNEL

CB superstar! Distinctive styling—standout performance—unequaled value 23 channels, all crystals supplied. 5 watts. High-level AM modulation. Speech clipper and filter for higher average talk power. Exclusive SBE dynamic microphone w/coil cord. Unique back-lighted dial gives largest channel readout ever. Channel 9 identified in green. "Feel right" military style knobs. Mirror chrome finish. Tilt/lock universal mounting bracket. Speaker on bottom. External speaker jack. Super receiver sensitivity. Series gate noise limiter. Adjustable squelch. High reliability silicon semiconductors throughout. Operates on 12VDC. Size: 1 1/2" x 6 1/2" x 7 1/2". Wt. 4 lbs.

No. 10A79. Model SBE-9CB. Each **\$99.95**
Pedestal Power supply to operate Catalina from 115 VAC.
No. 10A3066. Model SBE1AC. Each **\$31.95**

SIDEBANDER II, 23 CHANNEL, SSB/AM, CB MOBILE



Now even better with "power pump" for thumping 15 watt p.e.p. SSB input on upper or lower sideband and exclusive, speech operated "logo gradient" load control for greater average power, lower battery drain. Set also provides well modulated 5 watts on AM.

Other features: All solid state. Positive, ultra-fast solid state antenna changeover. No relay. Sensitive receiver with excellent signal/noise ratio has RF gain control, both SSB and AM and a SBE Super Shape crystal lattice filter in I-F. Clarifier for speech clarity, both AM, SSB. Panel meter shows output power AM, SSB, also signal strength on receive. Super gating type noise limiter. Adjustable squelch. Built-in speaker. PA/Paging with big audio "belt" uses external speaker. Synthesized, 23 channel operation—no crystals needed (46 channel potential with USB and LSB). 12VDC operation. Supplied w/dynamic microphone and mobile mounting bracket. Size: 2 1/4" H x 7 1/2" W x 9 1/2" D. Shpg. wt. 9 lbs.

No. 10A101. Model SBE-12CB. Each **\$307.95**
Pedestal Power Supply for 117 VAC operation.
No. 10A83. Model SBE-3AC. Each **\$42.50**

Hy-gain PROFESSIONAL CB TRANSCEIVERS

HY-GAINER 23M
5 WATT
23 CHANNEL
MOBILE
TRANSCEIVER



\$149⁹⁵

If you really want to get out and be heard—LOUD AND CLEAR!—the Hy-Gainer 23M is the mobile transceiver for you! Big power boost on selected transistors means that you get top output on modulation. Compare the Hy-Gainer 23M with any competitive unit . . . for price, power and total performance features. Dual conversion superheterodyne: Crystal synthesizer provides 23 crystal controlled transmit and receive channels. Delta tuning of +1.5 KHz on each channel. Mechanical filter. Sensitivity 0.5 mV. Automatic noise limiter, variable squelch, PA switch. Operates on 12 volts positive or negative ground. Complete with rotary mounting bracket, push-to-talk mic and instructions. Size 6 1/4" W x 2" H x 7 1/4" D. Shpg. wt. 6 lbs. No. 10A104. Hy-Gainer 23M. Each **\$149.95**

Hy-gain

TWENTY-THREE PLUS
23 CHANNEL BASE
OR MOBILE TUBE
TRANSCEIVER



\$189⁹⁵

The Twenty-Three Plus is rugged and ready for hard work. Designed for the man who expects top performance. Check out the Twenty-Three Plus and you'll know what we mean. Crystals supplied for all 23 channels. Tough tubes for maximum performance. Operates on 115 VAC or 12 VDC. Illuminated S/RF meter. Finger-tip immediate PA facility. Built-in range extender cuts through skip and hash. 2.5 KHz band spread for top selectivity and unwanted signal rejection. Modulation indicator. Built-in TVI filter. Automatic antenna match and .8 uV sensitivity. Complete with mounting bracket/desk pedestal, push-to-talk ceramic mic, AC and DC power cables, and instructions. Size 12" w x 8 1/2" d x 5" h. Shpg. wt. 16 lbs. No. 10A103. Model 23 Plus. Each **\$189.95**

MIDLAND SSB-AM BASE/MOBILE 23-CHANNEL CB
HAS 15 WATTS POWER ON SIDEBAND



\$359⁹⁵

15 WATTS PEP ON SIDEBAND. 5 WATTS ON AM

All crystals supplied for transmit and receive on 3 modes . . . AM, upper and lower sideband . . . AC powered clock ideal for logging calls. Switchable F.E.T. noise blunker. Dual conversion superheterodyne receiver has crystal lattice filter, AGC circuit, slide-type RF gain control, and fully variable squelch. Public Address/CB Switch. Illuminated meter indicates "S", RF output, and forward/reverse SWR. Panel indicator lights for power and transmit. Metal cabinet with die-cast control panel, chrome trim. Complete with mike and coiled cord, AC and DC power cables. Size: 13 x 5 x 9-5/8" W. Shpg. wt. 17 lbs. No. 10A77. Model 13-885. Each **\$359.95**



NEW JOHNSON MESSENGER 123A
SOLID STATE 23 CHANNEL
TRANSCEIVER



\$149⁹⁵

All of the features of the famous 123 plus a new ceramic selectivity filter, new "Voice Tailored" audio and a new "Acoustically Isolated" speaker. Full 23 channel operation. No additional crystals to buy! Equipped with a compression circuit that puts maximum voice intelligence into the radiated signal. The super sensitive receiver has 0.5 microvolt sensitivity with sharp filtered 7 KHz selectivity to pull in distant stations while rejecting interference from adjacent channel users. A high efficiency noise limiter effectively reduces ignition and other forms of radiated noise interference. Solid-state circuitry has low current drain and is fully temperature compensated to operate from -22° F. to +140° F. Easy-to-read meter monitors both incoming signal strength and transmitter output power. For 12 V. DC operation. 2 1/2" H. x 6 1/4" W. x 8 3/4" D. Shpg. wt. 5 lbs. No. 10A97. Model 123A. Each **\$149.95**
No. 10A3007. 117 V. AC Power Supply for Messenger above. Wt. 3 lbs. Johnson 239-125-1. Net Each **\$32.95**



15-WATT SSB,
23 CHANNEL
MOBILE

\$329⁹⁵

Dual transmitter circuitry allows 5 watts power on AM, 15 watts P.E.P. on SSB. Sensitive superhet receiver system has tuned RF, crystal lattice filter for maximum selectivity, AGC circuit, F.E.T. noise blunker reduces or removes electrical interference during receive. Full variable squelch allows quiet standby between calls. Dual purpose meter acts as visual monitor of incoming signal, converts to power output monitor during transmit. PA switch. SSB clarifier picks up stations broadcasting off center frequency. Complete with push-to-talk microphone, mike holder, mounting bracket and 12 volt DC cable. Size: 8 1/2 x 2-5/8 x 11 1/4". Shpg. wt. 10 lbs. No. 10A78. Model 13-878. Each **\$329.95**



FOR DEPENDABLE
HAND-HELD
COMMUNICATIONS!
MESSENGER 109
CB TRANSCEIVER



3 WATTS -
2-CHANNEL

Lightweight and rugged. Utilizes 13 transistors, 7 diodes and a thermistor to give excellent performance in both transmit and receive modes. Receiver sensitivity 0.5 microvolts. 6K HZ bandwidth at -6 db. Squelch is highly immune to impulse type noise. Noise limiting is series type with automatic threshold adjustment and IF clipping. Comes with nickel cadmium battery pack and built-in charger. Gives 8 hours service on a single charge. Squelch control silences receiver on "stand-by", prolongs battery life. Transmitter RF power output 1.7 watts at 12.6 VDC. High level class B modulation with speech compression, clipping and audio filtering. With channel 11 crystals. Size 8 1/2" H. X 3-3/8" W. X 1-13/16" D. Shpg. wt. 2 lbs. No. 10A19. Messenger 109. Each **\$159.95**
No. 10A3009. Extra Crystals for Messenger above. Pair **\$4.95**
No. 10A3075. Leather Belt Holster. Each **\$8.50**

\$69⁹⁵



**MIDLAND COMPACT 5 WATT
6 CHANNEL MOBILE TRANSCEIVER**

An exceptional value at B-A's, low price. This compact unit offers a full 5-watts power, with 6-channel versatility. Supplied with transmit and receive crystals for channel 9 (27.065 MHz). Five channels open for any other of the 23 CB channels. Sensitive superhet receiver features a tuned RF stage. Sensitivity 0.5 uv 0. AGC circuit prevents overdriving and fading, variable squelch control silences receiver between calls. Controls also include volume, PA switch, and channel selectors. Accessories included are push-to-talk mike with 4-ft. coiled cord, mobile mounting bracket and 12-volt DC auto cable. Dark gray metal cabinet with chrome trim. Size 5 1/2 X 6 1/2 X 2". Shpg. wt. 3 lbs.

- No. 10A105. Model 13-856. Each **\$69.95**
- No. 10A3033. 18-805. Base Power Supply. Converts above unit for 117 VAC operation. Each **\$21.95**
- No. 10A3020. Crystals per channel. Each **\$4.95**

\$99⁹⁵



**MIDLAND COMPACT 5 WATT
23 CHANNEL MOBILE TRANSCEIVER**

Larger transceiver in a small, versatile cabinet-total weight just 3 1/4 lbs. Synthesized circuit Pre-equipped and ready to operate on all 23 citizens band channels without purchasing additional crystals. Dual conversion superheterodyne receiver has tuned RF, active AGC that reduces fading or distortion. Full variable squelch and switchable ANL controls noise, static, and interference for sharp reception. PA /CB switch converts Model 13-869 into mobile PA amplifier. Sensitivity is 0.5. Combination S/R/F output meter has built-in transmit indicator light. Controls include on/off/volume; variable squelch; channel selector, automatic noise limiter, PA/CB switch. Push-to-talk dynamic microphone. Large 2 1/2" dynamic speaker. Dark gray metal cabinet with chrome trim. 12 VDC auto power cord. Size: 5 1/2 x 2 x 6 1/2". Shpg. wt. 3 1/4 lbs.

- No. 10A96. Model 13-869. Net Each **\$99.95**

MIDLAND



\$129⁹⁵

5-WATT 23-CHANNEL MOBILE CB

A truly professional quality. Citizens Band transceiver. Special single synthesizer circuit permits operation on all 23 Citizens Band channels. Dual conversion receiver has mechanical filter to provide extra sensitivity, superior image rejection, better selectivity. A full 5-watts of input power with a minimum of 90% modulation gives plenty of talk power... the maximum allowed by the F.C.C. Dual-purpose meter visually indicates incoming signal in "S" units and converts to RF output meter during transmit. Public address switch converts unit to PA amplifier when used with 8-ohm speaker. Built-in A-line filter and automatic noise limiter combine with manual squelch for more quiet operation. Complete with dynamic microphone and retractable coiled cord, mobile mounting bracket, 12-volt DC fused cable, and complete instruction manual. Size: 6 x 2 1/8 x 8 1/2".

- No. 10A24. Model 13-870D. Each **\$129.95**
- No. 10A3033. 18-805. Base Station Power Supply. Converts above unit for 117VAC operation. Each **\$21.95**

MIDLAND



\$169⁹⁵

**5-WATT, 23-CHANNEL MOBILE
WITH AUTOMATIC 2-CHANNEL H.E.L.P. SCANNER**

Locks in transmitter and receiver on Channel 9 to instantly answer any emergency call. Dual conversion superhet receiver has 455 KHz ceramic filter to assure high selectivity, superior adjacent channel rejection. Active AGC prevents fading or blasting. Variable squelch control and switch-type noise limiter permit manual adjustment of noise and static. S/RFO meter reads relative output power or incoming signal strength. Delta tuning adjusts receiver frequency ± 3 KHz. Public address switch. Vinyl-clad coiled cord, mounting bracket, magnetic mike holder, 12-volt fused DC cable. Size 7-7/8" x 2 1/8" x 8-7/8".

- No. 10A84. Model 13-871. Shpg. wt. 5 lbs. Each **\$169.95**



\$132⁹⁵

**MIDLAND ECONOMY PRICED
5-WATT, 23-CHANNEL BASE TRANSCEIVER**

Features of more expensive base station CB units in this value priced transceiver. FCC maximum 5-watt power with full 23 channel operation. Dual conversion superheterodyne receiver has tuned RF stage for better selectivity and sensitivity. Automatic noise limiter reduces noise and static. Variable squelch silences receiver on standby. Easy-to-read "S"/RFO meter monitors incoming signal strength, converts to RF output meter during transmit.

Accessory jacks provided for microphone, external speaker, external antenna. Durably constructed metal cabinet covered with good-looking black vinyl. Front panel is metallic gold/bronze with white accents.

- Complete with push-to-talk mike and coiled cord. 117 volt AC operated. Size: 11 x 7 x 4 1/2".
- No. 10A85. Model 13-891. Each **\$132.95**

**OUR MOST POPULAR
100 MILLIWATT
WALKIE-TALKIE**



**3 CHANNEL
100 MILLIWATT
CALL SIGNAL
TRANSCEIVER**

**NO FCC
LICENSE
REQUIRED**

\$21⁹⁵

9 transistors superheterodyne transceiver. Call signal increases range over ordinary voice calling, is more easily identified on crowded channels. 3-channel capability, channel 11 plug-in crystals factory installed. Gray case with chrome trim. Vinyl carrying case, earphone, and 9 volt battery supplied. Jack provided for optional AC adaptor. 5 1/4 x 7/8 x 1-3/8". Shpg. wt. 1 1/2 lbs.

- No. 10A41. Model 13-428 Each **\$21.95**
- No. 10A3030. 18-109B. 9 V. AC Adaptor **\$4.95**
- No. 10M3020. Crystals Per Channel. Pair **\$4.95**

MIDLAND INTERNATIONAL CITIZENS BAND WALKIE-TALKIES



\$26⁵⁰

3-CHANNEL, 100 MW WITH CALL SIGNAL

• Separate Speaker/Mike • No License required.

Exceptional value! Tremendous talk power and sensitivity. Separate speaker and mike for top-quality voice response. Sensitive superheterodyne receiver. Call Signal carries further than voice for long range alert. 3-channel capability, channel 7 crystals factory installed. Ruggedly handsome metal cabinet with die-cast chrome grille. Complete with 6 pen light cells and carrying strap. Size: 9⁵/₈ x 3¹/₈ x 2³/₈". Shpg. wt. 3 lbs. No. 10A55. **\$26.50**

No. 10A3030. 18-109B. 9 V. AC Adaptor...\$4.95
No. 10M3020. Crystals Per Channel. Pair...\$4.95



\$31⁹⁵

100 MW WITH CALL SIGNAL AND VARIABLE SQUELCH

Midland's finest 100 MW transceiver! Popular features include separate speaker and microphone for better voice response, fully variable squelch, call signal alert tone. 3-channel capability with channel 11 crystals installed.

All metal cabinet has accessory jacks for AC adaptor and earphone. Sensitive superheterodyne receiver with tuned RF for greater receiving range. High-level Class B audio modulation.

Complete with leather carrying case and strap. Operates on 8 penlight cells. Size: 7¹/₂ x 2³/₄ x 2¹/₈" D. Shpg. wt. 1 lb. **\$31.95**

No. 10A87. Model 13-124C. Each...\$31.95
No. 10A3021. 18-112B. 12 V. AC Adaptor...\$4.95
No. 10M3020. Crystals Per Channel. Pair...\$4.95
No. 21A3. Penlight Cell. Each...17"



**LOWEST PRICED
HI-POWER
TRANSCIVER!**



\$31⁹⁵

1-WATT, 2-CHANNEL CALL SIGNAL TRANSCIVER

A high quality CB transceiver with 2-channel capability. Channel 11 plug-in crystals installed. Sensitive superheterodyne receiver has tuned RF and 3 IF stages for better reception. Crystal-controlled transmitter. High-level Class B modulation. Variable squelch and AGC circuit reduce distortion. Operates from 8 pencils, battery pack or AC power supply listed. Chocaaol gray metal cabinet wood-tone inset. Includes earphone and carrying strap. Size 7-1/16 x 2-5/8 x 2 1/8". Shpg. wt. 1 1/4 lbs. No. 10A90. Model 13-700. **\$31.95**

Each.....\$31.95
No. 10A3034. 18-140 AC power supply...\$18.95
No. 10A3022. 20-112 Nickel cadmium rechargeable battery pack. Each...\$17.70
No. 10A3023. 20-212. Charger for above...\$6.50
No. 10M3020. Crystals per channel. Pair...\$4.95
No. 21A3. Pencil, Each...17"

MIDLAND INTERNATIONAL



\$49⁹⁵



2-WATT, 3-CHANNEL CALL SIGNAL TRANSCIVER HOLSTER-TYPE CARRYING CASE, TOP-MOUNTED VOLUME, SQUELCH

Fully variable volume and squelch controls are top mounted for easier access. Jacks for in-unit battery-charger, AC adaptor, earphone, external antenna. Long range Call Signal alert tone. Built-in battery condition meter. 3-channel versatility-channel 11 crystals installed. Superheterodyne receiver has tuned RF, AGC circuit, and variable squelch. Operates on 8 pencils, Ni-Cad battery pack, or AC power supply listed. Accessories include Texon holster-type case, earphone, shoulder strap, channel 11 crystals. Size 9 x 3 1/8 x 1 1/4". Shpg. wt. 2 1/2 lbs.

No. 10A88. **\$49.95**
Model 13-725. Each...\$49.95
No. 21A3. Pencil, Each...17"
No. 10A3034. 18-140 AC power supply...\$18.95
No. 10A3022. 20-112 Nickel cadmium rechargeable battery pack. Each...\$17.70
No. 10A3023. 20-212. Charger for above...\$6.50
No. 10M3020. Crystals per channel. Pair...\$4.95

MIDLAND INTERNATIONAL



\$62⁹⁵



NEW! 5-WATT, 3 CHANNEL

This good-looking unit operates on any 3 of the 23 CB channels. Channel 11 crystals installed. Receiver has tuned RF with less than 1.5 uv sensitivity. Full variable squelch, channel selector, combination external power and battery recharge switch, hi-lo battery saver switch, jacks and connections for earphone, extension speaker, external antenna, AC adaptor. Operates on 8 pencils.

Tough all-metal cabinet. With Texon carry case, earphone, shoulder strap. Sizes 9 1/2" X 3 1/4" X 2". Wt. 3 1/2 lbs.

No. 10A89. Model 13-762. Each...\$62.95
No. 10A3027. 18-143C. AC Base Station Power Supply. Each...\$23.98
No. 21A3. Pencil, Each...17"
No. 10A3062. 18-141. 12 V DC Cigarette Lighter Cable. Each...\$1.95
No. 10A3022. 20-112. Ni-Cad battery pack. Each...\$17.70
No. 10A3023. 20-212. Charger for above...\$6.50
Each...\$4.95
No. 10M3020. Crystals Per Channel. Pair...\$4.95

MIDLAND INTERNATIONAL



\$89⁹⁵



POPULAR 5-WATT, 6-CHANNEL

Performance features of a more expensive unit! Big 5-watt transmitter. Superhet receiver has RF stage, 4 IF stages with sensitivity less than 1 uv, AGC. Variable squelch, PA switch, battery level meter. Battery saver switch. Battery pack charger switch. Versatile accessory jacks. 12 section 64" Antenna. Requires 8 pencils or other power supplies listed. With carrying case, strap, earphone and pouch. With Ch. 11 Crystals. Size 9 1/4 x 3 1/8 x 2-3/16. Wt. 3 3/4 lbs.

No. 10A30. Model 13-775B. **\$89.95**
Each.....\$89.95
No. 21A3. Pencil, Each...17"
No. 10A3027. 18-143C. AC Base Station, Power Supply. Each...\$23.98
No. 10A3062. 18-141. 12 V. DC Cigarette lighter Cable. Each...\$1.95
No. 10A3022. 20-112. Ni-Cad battery pack. Each...\$17.70
No. 10A3023. 21-212. Charger for above...\$6.50
Each...\$4.95
No. 10M3020. Crystals Per Channel. Pair...\$4.95

improve your image

WITH THE LATEST ADVANCE IN

TV Antennas...

RCA

Permacolor

RCA presents an entirely new concept in TV antennas with the introduction of Permacolor—the first antenna with solid, permanent connections from elements to feed line... the first antenna with pivoting, polypropylene insulators... the first antenna with a weatherproof blue and gold vinyl finish. Permacolor is all new... all RCA... designed and manufactured by the company that pioneered Color TV. UHF-VHF | FM combinations featuring an exclusive corner reflector-bow tie UHF section. Each one easy to install, top quality performer in its class, for permanent "high fidelity" color reception. Get the "Image Improver"... get an RCA Permacolor Antenna!

Unique polypropylene insulators support vinyl clad blue elements over 5½ in. span. Entire insulator pivots, not just element. Electrical connections from elements to rigid, balanced feed line made through flexible, permanently riveted aluminum straps. Insulators lock together to form extra-strong, truss-like assembly, securely locked to heavy square boom. All Permacolor Antennas feature V-shaped mast clamps that have a double set of teeth to bite into mast, to prevent slippage... clamp completely surrounds boom, with no rivets.

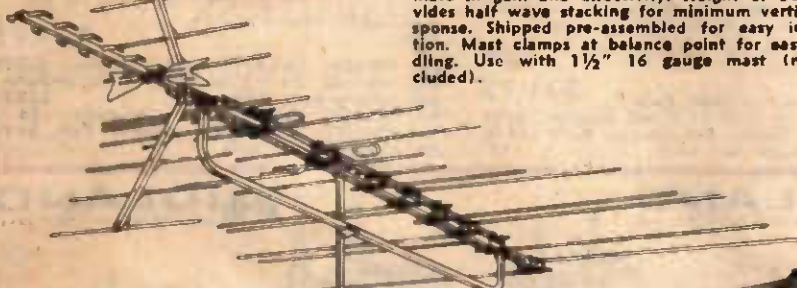


MODEL 4BG69
\$99⁹⁹



For sharp, clear UHF-VHF/FM reception in remote, ultra-fringe areas. Fully balanced dipoles in every position. No hot booms. Balanced and matched feed lines throughout, delivers the ultimate in gain and directivity. Height of 86" provides half wave stacking for minimum vertical response. Shipped pre-assembled for easy installation. Mast clamps at balance point for easy handling. Use with 1½" 16 gauge mast (not included).

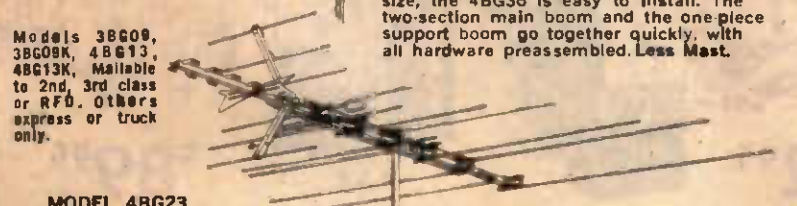
FREE
with all UHF-VHF | FM Permacolor Antennas a back-of-set U/V Splitter is included.



MODEL 4BG36
\$58⁵²
7A6567

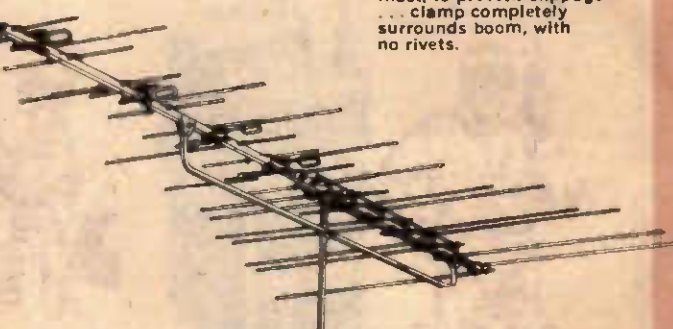
A powerful, all-channel, deep-fringe area Permacolor Antenna featuring a high gain, combination bow tie and corner reflector UHF section with six director elements. Heavy square double boom construction provides great strength while requiring less than ten inches of mast space. Despite its impressive, signal pulling size, the 4BG36 is easy to install. The two-section main boom and the one-piece support boom go together quickly, with all hardware preassembled. Less Mast.

Models 3BG09, 3BG09K, 4BG13, 4BG13K, Mailable to 2nd, 3rd class or RFD. Others express or truck only.



MODEL 4BG23
\$35⁰⁹
7A6568

An all-channel Permacolor Antenna for suburban to fringe areas, featuring RCA's combination bow tie and corner reflector UHF section with snap-off director elements that can be tailored to high band UHF reception. Less Mast.



MODEL 3BG27
\$55⁹⁹
7A6572

For deep-fringe area reception of VHF color or black & white TV and FM, the 3BG27 is unexcelled. Its double duty elements make up 27 perma-tuned circuits for maximum picture power in difficult reception areas. The 3BG27 has a double boom for added strength, and features break-off director elements for controlling FM reception. Less Mast.

UHF-VHF/FM ANTENNAS

Stock No.	Model No.	No. of Permatuned Circuits	Overall Boom Length	Range in Miles			Wt. Lbs.	Net Each
				VHF	FM	UHF		
7A6585	4BG69	69	132"	350	300	150	25	\$99.99
7A6567	4BG36	36	146"	300	250	130	14	58.52
7A6568	4BC23	23	94"	225	175	120	8	35.09
7A6569	4BC20	20	78"	150	120	80	7	26.29
7A6570	4BC13	13	43"	100	75	50	3	18.92
7A6571	*4BC13K	13	43"	100	75	50	7	25.52

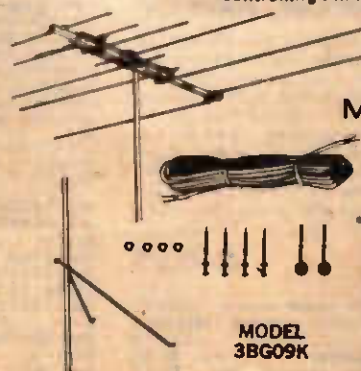
VHF/FM ANTENNA

7A6572	3BG27	27	164"	320	320	.....	15	55.99
7A6573	3BC17	17	97"	200	200	.....	8	29.70
7A6584	3BC13	13	77"	150	200	.....	6	21.95
7A6574	3BC09	9	56"	125	200	.....	5	14.85
7A6575	*3BC09K	9	56"	125	200	.....	7	21.45

ANTENNA WITH MOUNTING KIT

\$21⁴⁵
7A6575

*K models Mounting Kits include (1)—4 ft. universal tripod mounting base with one standoff installed (1)—50 ft. 300 ohm transmission wire with 2 connecting terminals, (4)—Neoprene washers, (4)—3" drive screws, (2)—Wood screw standoffs



MODEL 3BG09K

RCA RECEPTION AIDS & ANTENNAS



RCA 82 CHANNEL TV/FM WALL OUTLETS AND PLUGS

Molded of high IMPAC plastic and provide for convenient plug in connections of a TV or FM set to an antenna system download. Flush mount. Mounting hardware, plugs, and instructions included. For surface mount use outlet box below.

Stock No.	RCA No.	Designed for	Input Ohms	Output Ohms	Net Each
7A2609	10G301	One TV-FM set	300 lead	300 lead	\$1.98
7A2610	10G302	One TV-FM set	75 cable	300 lead	2.75
7A2611	10G303	One TV-FM set	75 cable	75 cable	2.86
7A2612	10G304	One TV-FM & 5 wire rotor	300 lead	300 lead	2.75
7A2613	10G305	One TV-FM & 5 wire rotor	75 cable	300 lead	3.52
7A2614	10G306	One TV-FM & 5 wire rotor	75 cable	75 cable	3.85
7A272	10G325	Surface mount outlet box			.70

ADDITIONAL PLUGS

7A268	10G321	TV/FM outlet plug	300 ohm		.97
7A269	10G322	Rotator outlet plug	4 or 5 wire		1.06

RCA MULTI-SET COUPLERS

Used to connect additional TV or FM receivers to an antenna download or the output of a signal amplifier. Includes mounting hardware and instructions.

Stock No.	RCA No.	Designed for	Input Ohms	Output Ohms	Net Each
① 7A2617	10A180	Two sets	300 lead	300 lead	\$1.76
② 7A2625	10G216	Two sets	300 lead	300 lead	3.81
③ 7A2632	10G217	Two sets	75 cable	75 cable	7.37
④ 7A2615	10G218	Four sets	300 lead	300 lead	4.37
⑤ 7A2616	10G219	Four sets	75 cable	75 cable	8.69

RCA ANTENNA COUPLERS

Used to combine the signals of two or more antennas and feed the combined signals to a single download. Includes mounting hardware and instructions.

Stock No.	RCA No.	Application	Input Ohms	Output Ohms	Net Each
② 7A2625	10G216	Two identical TV/FM	300	300	\$3.81
③ 7A2626	10G222	One VHF-FM and one UHF	300	300	4.62
④ 7A2627	10G223	One VHF-FM and one UHF	300	75	6.38
⑤ 7A2628	10G224	One VHF, one UHF, one FM	300	300	6.27
⑥ 7A2629	10G225	One VHF, one UHF, one FM	300	75	7.85
⑦ 7A2630	10G226	One VHF Hi-band, one VHF Lo-band	300	300	4.18
⑧ 7A2631	10G227	One VHF Hi-band, one VHF Lo-band	300	75	6.60

① RCA BAND SEPARATORS

Band Separators are designed to separate the combined VHF-UHF-FM from a single download 82 channel antenna system and feed the appropriate signals to the respective terminals. Includes mounting hardware and instructions. *Low loss.

Stock No.	RCA No.	Application	Input Ohms	Output Ohms	Net Each
7A2618	10A135	VHF & UHF	300	300	\$1.99
7A2619	10G220*	VHF & UHF	300	300	2.86
7A2620	10G221	VHF & UHF	75	300	3.85
7A2621	10G233	VHF, UHF, FM	300	300	3.30
7A2622	10G234	VHF, UHF, FM	75	300	5.17

RCA MATCHING TRANSFORMERS

Matches 300 ohm-TV-FM antennas or TV set to a 75 ohm coaxial cable download. Weatherproof housing. Includes installation hardware.

Stock No.	RCA No.	Application	Net Each
① 7A2623	10G214	for mounting on mast	\$4.07
② 7A271	10G215	for in-line installation	2.73

② RCA FM BAND TRAP

Reduces interference on a TV set caused by strong local FM stations. 300 ohm input and output.

7A2624. 10G230. Net Each.....\$5.39

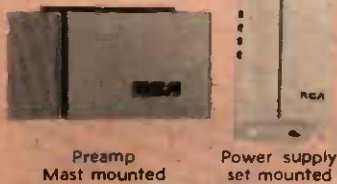
③ RCA INTERFERENCE FILTER

Reduces interference on a TV set caused by amateur radio, neon lights, and other adjacent sources. Traps out signals below 50 MHz and from 110 to 170 MHz. 300 ohm input and output. Includes mounting hardware and instructions.

7A270. 10G229. Net Each.....\$4.95

RCA PREAMPLIFIERS

Preamplifiers are designed for use in VHF/UHF/FM signal areas. Amplifier unit is mounted on the antenna mast to overcome inherent lead-in losses. The indoor mounted power supply unit (operates on 120VAC) provides strong signal to receiver. 300 ohm input to the preamp.



Stock No.	RCA No.	Application	Net Each
7A2633	10G201	VHF-FM two 300 ohm outputs	\$33.55
7A2634	10G204	VHF-UHF-FM two 300 ohm outputs	\$2.89
7A2635	10G206*	VHF/FM one 300 ohm outputs	17.82

*Power supply appearance differs slightly from illustration.

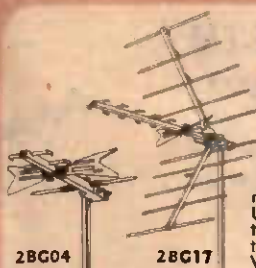
RCA DISTRIBUTION AMPLIFIER

Designed to provide strong VHF/UHF/FM signals to receivers. Mounted indoors, amplifier overcomes distribution losses. 300 ohm input and two 300 ohm outputs in housing similar to power supply above.

No. 7A2636. 10G212. Net Each.....\$17.27

RCA

UHF PERMA-TUNED ANTENNAS



AS LOW AS
\$4.29

Broad band, reflector type antennas, in which most of the tuned circuits operate on the entire UHF band with performance exceeding conventional antennas. Models 28C09 and 28C17 feature built in couplers allowing connection to a VHF antenna. Easy installation. Mailable 2nd, 3rd class and RFD only. Mast not included.

Stock No.	Model	Elements	Boom Length	Shpg. Wt.	Net Each
7A6581	28C04	4	19"	2 lbs.	\$4.29
7A6582	28C09	9	22"	4 lbs.	10.45
7A6583	28C17	17	38"	6 lbs.	13.86

RCA Rotators



Aim your Permacolor antenna with an RCA Rotator, for precise, ghost-free reception. RCA Rotators feature exclusive dynamic turning power super-strong aluminum drive units pictured at right. An RCA Rotator and an RCA Permacolor Antenna — a great combination for great reception!

Push-Button Control No. 7A2599. 10W505. Each.....\$31.95

No. 2820. 4-Conductor Cable for above. Per Ft.....6c 100 Ft.....\$4.50

Automatic Silent Electronic Control. No. 7A2600. 10W707. Each.....\$43.95

No. 2A9940.5-Conductor Cable for above. Per Ft.....7c 100 Ft.....\$5.49

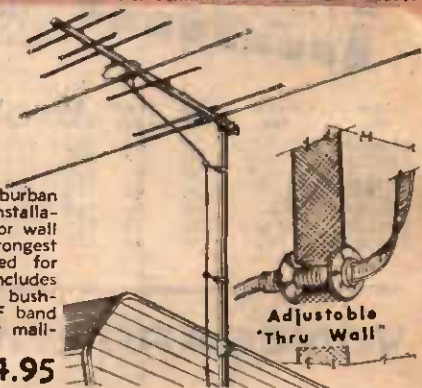


MOBILE HOME 82 CHANNEL ANTENNA OUTFIT

\$14.95

Includes the popular city-suburban antenna below with special installation hardware and 6 ft. mast for wall mount. Easily oriented for strongest signal. Designed to be lowered for traveling without folding. Kit includes 25 ft. 300 ohm lead, wall-thru bushing and back of set VHF-UHF band separator. Shpg. wt. 6 lbs. Not mailable.

No. 7A6564. Model DLX-9MHK. Net Each.....\$14.95



UNBEATABLE VALUE! TOTAL RECEPTION ALL 82 CHANNELS — COLOR / B&W / FM / STEREO

B-A DELUXE CITY SUBURBAN ANTENNA OUTFIT

\$10.88

Includes 4 ft. tripod mount, 50' lead-in, stand-offs and all necessary hardware for a fine roof-top installation. Range VHF 50 miles, UHF 40 miles, FM 50 miles. Of finest materials, riveted and reinforced, and designed for quick installation. Gleaming gold vinyl clad for permanent high performance. Shpg. wt. 5 lbs. Mailable.

No. 7A6563. Net Complete.....\$10.88

INCLUDES TRIPOD MOUNT, 50' LEAD-IN AND ACCESSORIES



POWERFUL WINEGARD TV ANTENNAS

SUPER FRINGE VHF-UHF-FM "COLOR-WEDGE"

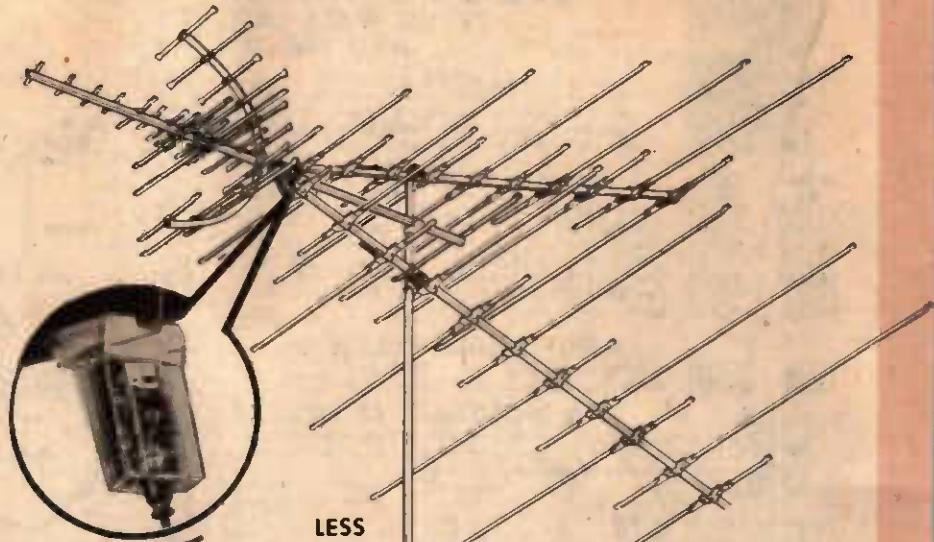
CHANNELS 2-83 ... PLUS FM
MOST POWERFUL ALL-CHANNEL
ANTENNA YOU CAN BUY!

MODEL "CW-1001"

UP TO 150 MILES UP TO 325 MILES
UHF VHF & FM

Revolutionary "wedge" design provides by far the highest gain of any combination VHF-UHF-FM antenna. 54 working elements provide unprecedented long distance reception, yet antenna is surprisingly compact. Vertical beam phasing and extra sharp directivity on all channels prevents interference and ghosting. Much larger signal capture area and exclusive electronic design features produce more signal gathering power per inch of antenna. Built-in weather-proof housing for protecting downlead connections and optional amplifier. See amplifiers below.

\$77⁶⁰



LESS
MAST

EXCLUSIVE!

Built-in 300 ohm and 75 ohm downlead connections. NO MATCHING TRANSFORMER REQUIRED! See Page 228 for cables with connectors attached.

FREE
WITH EACH 82
CHANNEL ANTENNA

MODEL
CS-380

"Back-of-set" VHF-UHF
FM band separator.

THESE ANTENNAS ARE TOO LARGE TO SHIP PARCEL POST AND MUST GO VIA MOTOR FREIGHT OR R.R. PLEASE CHECK WITH YOUR LOCAL AGENT FOR FREIGHT RATE.

Stock No.	Model No.	No. Elements	Boom Lgth.	Range in Miles VHF	Range in Miles FM	UHF	Wt. Lbs.	Net Each
7A6550	CW-1001	56	104	325	325	150	28	\$77.60
7A6551	CW-980	38	114	275	250	135	19	58.25
7A6552	CW-960	27	77	225	175	125	15	45.75
7A6553	SC-810	23	81	175	125	80	9	33.65
7A6557	CW-940	19	51	150	125	80	9	35.60
7A6554	SC-800U	22	69	125	100	100	9	29.55
7A6509	SC-790	13	44	100	75	50	6	22.60

ADVERTISED IN
LIFE

SUPER COLORTRON
MODEL SC800U

\$29⁵⁵

DELUXE QUALITY

All Winegard antennas shown here are built of finest quality materials that lock-in peak performance for many extra years. 7 patents and patents pending indicate the unique engineering design advancements in these antennas.

WINEGARD VHF-FM ANTENNAS

SUPER-POWER FOR VHF
CH. 2-13 AND FM

Designed like the famous CW-1001 above, except that ALL the performance is concentrated on channels 2-13 VHF and FM. This antenna does not receive UHF - but what it does for long range VHF is next to unbelievable. Under Winegard's new Total Performance Rating systems - which takes into consideration such factors as voltage gain, horizontal directivity, vertical directivity, front-to-back ratio, front-to-side ratio, and impedance match - this antenna is at the very top with a rating of "300". There is none better. FM rating is 265, making it an extreme distance performer on FM, too. Winegard unique wedge design provides increased signal capture area in a much shorter and more compact antenna. Has VHF vertical beam phasing elements to help reject interference such as auto ignition noise. Has built-in ferrite impedance stabilizer for up to 10% increase in gain as well as automatic 200 ohm match to lead-in. Elimination of insulators makes the wedge stronger and automatically grounds static charge build up for lightning protection. Not mailable.



MODEL
CW-2002

\$75⁹⁰

THESE ANTENNAS ARE TOO LARGE TO SHIP PARCEL POST AND MUST GO VIA MOTOR FREIGHT OR R.R. PLEASE CHECK WITH YOUR LOCAL AGENT FOR FREIGHT RATE.

LESS
MAST

EXCLUSIVE!

Built-in 300 ohm and 75 ohm downlead connections. NO MATCHING TRANSFORMER REQUIRED! Transparent housing protects downlead and optional amplifier. See Page 228 for cables with connectors attached.

LESS
MAST

MODEL
SC-510

\$22⁶⁰

CHOOSE FROM 7
POWERFUL MODELS

Stock No.	Model No.	No. Elements	Boom Lgth.	Range in Miles VHF	Range in Miles FM	Wt. Lbs.	Net Each
7A6555	CW-2002	44	130	350	350	30	\$75.90
7A6556	CW-480	25	115	250	250	16	51.40
7A6557	CW-460	17	78	225	225	14	41.35
7A6558	CW-440	13	52	200	200	10	32.85
7A6503	SC-520	15	71	175	175	8	28.60
7A6504	SC-510	12	54	150	150	7	22.60
7A6559	SC-500	10	44	125	125	7	19.00

IT'S EASY TO INSTALL A WINEGARD ANTENNA SYSTEM



WINEGARD

SUPER-COLORTRON 82-CHANNEL ANTENNA MOUNTED AMPLIFIERS

BOOST UHF-VHF OR FM ACCORDING TO YOUR LOCAL NEED—UP TO 7 TIMES MORE SIGNAL POWER

NEW SOLID STATE SIGNAL BOOSTERS EXTEND RECEPTION RANGE . . . STRENGTHEN WEAK CHANNELS AND LET YOU OPERATE SEVERAL SETS AT SAME TIME



There's a high gain, transistorized amplifier for every reception area. Precision printed circuitry with long-life silicon overlay transistors boost TV signals on antenna right at point of interception. Perfect for color and black and white. Amplifier boards slide easily into the built-in housing on all Winegard Super Colortron antennas shown on Page 224. (For other antenna models, order housing Model ACH-1B shown below.) Includes connector and power supply. 117 V. AC. Shpg. wt. 2 lbs.

RECOMMENDATIONS . . . IF YOU HAVE:

Weak VHF and UHF, use models below. No. 7A2559. Model AC-823B.
(for 300 ohm line). Each . . . \$36.75
No. 7A2560. Model AC895B.
(for 75 ohm cable). Each . . . \$38.40
Weak VHF, Strong UHF, use models below. No. 7A2561. Model AC223B.
(for 300 ohm line). Each . . . \$28.55
No. 7A2562. Model AC295B.
(for 75 ohm cable). Each . . . \$29.75

Weak UHF, Strong VHF, use models below. No. 7A2563. Model AC-423B.
(for 300 ohm line). Each . . . \$28.95
No. 7A2564. Model AC-495B.
(for 75 ohm cable). Each . . . \$30.30
Weak FM (Fm antenna only) use models below.
No. 7A2565. Model AC623B.
(for 300 ohm line). Each . . . \$30.30
No. 7A2566. Model AC695B.
(for 75 ohm cable). Each . . . \$34.55

HIGH GAIN LOW-NOISE AMPLIFIERS for fringe area reception. Helps insure snow-free reception. 75 ohm only, connector for RG11U furnished. For weak VHF, strong UHF. 24 db. VHF gain.

No. 7A2606. Model AC-913. **\$41.75**

For weak UHF and VHF. 24 db. VHF gain, 9.3 db. UHF gain. No. 7A2607. Model AC-982. **\$50.10**

UNIVERSAL AMPLIFIER HOUSING attaches to any TV or FM antenna with U-bolt provided. Accepts any of solid state amplifiers listed here. Shpg. wt. 1 lb. No. 7A2567. **\$4.70**

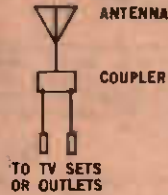
Model ACH-1B. Each **\$4.70**



WINEGARD MULTIPLE SET COUPLERS

FOR UHF-VHF TV AND FM COLOR OR BLACK & WHITE

Used in home TV-FM systems. Divides signal from antenna or booster 300 ohm lead for 2 or more sets or for wiring 2 or more outlets where one set is to be moved about. Prevents ghosts caused by poor match. High isolation between sets prevents interaction. Use with regular 300 ohm twin lead for VHF, UHF or FM. Excellent for color as well as black and white TV 300 ohm input and Outputs. 5-way brackets for indoor or outdoor mounting. Shpg. wt. 1 lb.

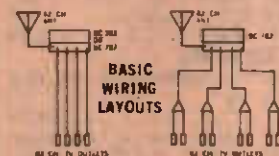


Model CC-282B for 2 Sets No. 7A2519. Each **\$4.15**
Model CC-482B for 3-4 Sets No. 7A2520. Each **\$5.15**
Model CC-787 one 75 ohm input, two 75 ohm outputs. No. 7A2637. Each **\$8.90**



SOLID STATE 82 CHANNEL TV-FM BOOSTER/COUPLER

BC-782
• 4 outputs.
• Perfect Ch. 2-83 and FM system.
• Excellent for color—uniform gain.
• Fine commercial quality.
Highly efficient TV-FM signal amplifier with newest overlay silicon transistors and printed circuitry. Delivers full gain on all 82 channels, enough to operate 1, 2, 3 or 4 directly. High isolation between sets to prevent interaction. Baked enamel steel cabinet. 117 V. AC. Shpg. wt. 3 lbs.



BC-382 (300 Ohm in and out). No strip screw type connections. No. 7A2526. Net each **\$35.00**
BC-782 (75 Ohm in and out). Includes 5 "F" connectors. No. 7A2527. Net each **\$38.20**

SOLID STATE VHF-FM 4-SET COUPLER BOOSTER/AMPLIFIER



\$32⁹⁵

- 75- and 300 ohm inputs.
- +15 db gain.
- Power for preamplifier.

Makes a sensational (ch. 2-13 and FM) home TV system amplifier or a great amplified 4-set coupler with +10 db gain to each output or a high output distribution amp with 17 db gain. Produces up to 3-million microvolts of signal output, takes up to 300,000 microvolts input. Uses temperature stable overlay silicon transistors . . . long life, low cost operation. Flat response makes it perfect for color. No interaction between sets. All metal housing and 1-75 ohm output. Two F-59 connectors supplied. 117 V. AC. Shpg. wt. 3 lbs.

No. 7A2533. Model BC-234. Each **\$32.95**

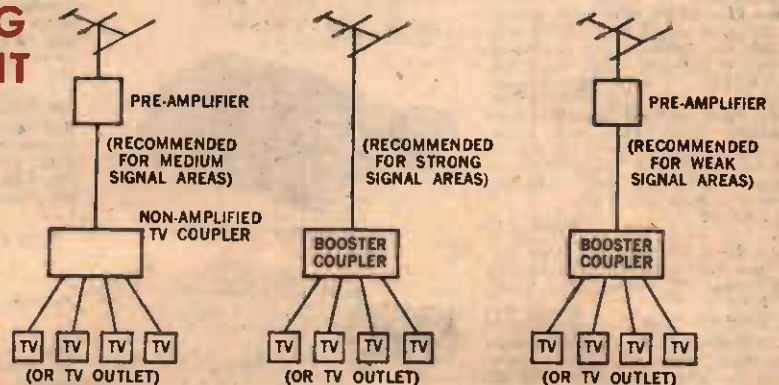
Model BC-274. Similar to BC-234 above except output is thru four 75 ohm, F-jacks. Amplifies VHF-FM signal and provides +6.2 db gain to each output. Five F-59 connectors. No. 7A2534. Model BC-274. Each **\$33.95**

SOME POPULAR HOME TV SYSTEMS USING WINEGARD EQUIPMENT

It is quite easy to install a convenient home TV antenna system that will provide equally fine reception on two, three or four TV sets.

Select compatible equipment, making sure you are providing plenty of clean signal to each set or outlet.

NOTE: For VHF-UHF systems, be sure to select equipment designated as "82 Channel" or VHF-UHF". A VHF-UHF System requires a Back-of-set Bond Separator for each TV Set - Model CS-380 or CS-387.



IT'S EASY TO INSTALL A WINEGARD ANTENNA SYSTEM

WINEGARD MULTIPLE ANTENNA COUPLERS

MOUNTS ON ANTENNA JOINS 2 ANTENNAS TO SINGLE 300 OHM LEAD



SIGNAL DOUBLER. Combines signals of any two identical antennas pointed in the same direction and doubles the power output. Also couples any two antennas to single download regardless of direction antennas are pointed. Provides trouble-free, rotorless installation. (If VHF and UHF antennas are combined, use CS-285 band separator shown below.) 300 ohm input and output. Weatherproof housing with mast clamp. Wt. 1 lb.

No. 7A2503, Model SD-33. Each **\$4.95**

No. 7A2578, Model SD-37 (300 Ohm in, 75 Ohm out). Each **\$6.35**

TV-FM ANTENNA COUPLER. Couples the signals from one TV antenna and one FM antenna together into a single 300 ohm download. Same unit is used inside to divide TV and FM signals into separate lines for connection to receivers. 300 ohms in or out. Weatherproof housing with universal mounting bracket. AC passive.

No. 7A2518, Model CA-FMB. Each **\$6.75**

No. 7A2573, Model CA7-FMB (75 Ohm in and out, connectors included). Each **\$10.15**

75 OHM COAXIAL LINE SPLITTERS

2 WAY SPLITTER. Divides signals from a single 75 ohm line into 2 separate lines. Avg. insertion loss 3.8db. AC-DC passive to all outputs. Includes 3 F59 connectors.

No. 7A2641, Model LS-275C. Each **\$7.95**

4 WAY SPLITTER. Divides signals from a single 75 ohm line into 4 separate lines. Avg. insertion loss 7.6db. AC-DC passive to all outputs. Includes 5 F-59 connectors.

No. 7A2642, Model LS-475C. Each **\$14.75**

75 OHM - 82 CHANNEL TV SET CORDS

Five ft. cord of RG-59/U coax with "F" connector and molded 75 to 300 ohm matching transformer for use with VHF or UHF line taps.

No. 7A2644, Model MTJ-5. Each **\$4.15**

Five ft. cord of RG-59/U coax with "F" connector and 82 channel band separator for connecting line taps to separate 300 ohm VHF and UHF antenna connections to TV set.

No. 7A2643, Model MSJ-5. Each **\$6.00**

WINEGARD 300 OHM VHF-UHF BAND SEPARATOR

Use with any antenna download carrying both VHF and UHF signals to divide signals to separate input terminals on TV set. 300 ohm input and outputs. Wt. 1 lb.

No. 7A2504, Model CS-285. Each **\$2.40**

No. 7A2508, Model CS-175B (75 ohm in, 300 ohm out). Each **\$4.25**

No. 7A2574, Model CS-775 (Separate 75 ohm inputs for VHF and UHF antennas and single 75 ohm output). Each **\$7.40**

No. 7A2639, Model CS-380. Connects single 300 ohm download to separate VHF-UHF and FM terminals on TV and FM receivers. Net Each **\$2.95**

No. 7A2640, Model CS-387. Connects single 75 ohm download to separate VHF-UHF and FM terminals on TV and FM receivers. Net Each **\$4.70**

No. 7A2640, Model CS-387. Connects single 75 ohm download to separate VHF-UHF and FM terminals on TV and FM receivers. Net Each **\$4.70**

SOLID STATE ANTENNA AMPLIFIERS

FOR USE ON ANY ANTENNA THAT DOESN'T HAVE A BUILT-IN CARTRIDGE AMPLIFIER HOUSING.

- Boosts Signals for Sharper, Clearer Color and Black and White.
- Supplies enough signal to operate 2 or more sets in Weak Signal Areas.

Model RD-300 for VHF-FM Antennas in fringe signal areas. High gain, low noise. Lightning protected. 300 ohm input and output. Shpg. wt. 2 lbs.

No. 7A2587. Each **\$18.30**

Model RD-830 for VHF-UHF Antenna. High gain, low noise. Twin transistors. Built-in fixed FM trap. Lightning protected. 300 ohm input and output. Shpg. wt. 2 lbs.

No. 7A2588. Each **\$26.75**

Model RD-870 for VHF-UHF Antenna. Same as above but has 75 ohm output for coaxial cable download. Connector included. Shpg. wt. 2 lbs.

No. 7A2589. Each **\$27.30**

Model RD-2-83 Twin Transistor Pre-amplifier. High gain, low noise. Separate 300 ohm inputs for a VHF and a UHF antenna. Single 300 ohm output. Built-in FM trap. Lightning protected. Shpg. wt. 2 lbs.

No. 7A2590. Each **\$29.70**

Model RD-2-87. Same as above, but has two 300 ohm inputs and one 75 ohm output for coaxial cable. Shpg. wt. 2 lbs.

No. 7A2591. Each **\$29.70**

Model FM340 FM Single Set Booster. Solid-state 300 ohm FM booster increases signals 8 times (+18 db gain). Mount anywhere close to AC receptacle.

No. 7A2608. Each **\$16.10**



AS LOW AS

\$18.30

MOUNTS ON TV MAST OR ANTENNA



110 V. POWER SUPPLY



SOLID STATE, 82 CHANNEL 2-SET BOOSTER/COUPLER

Divides and amplifies signals from a single antenna installation to operate two TV sets or wall outlets. Perfect for color or black and white on VHF, UHF and FM. High isolation between sets to prevent interaction. High impact polystyrene cabinet. 117 VAC. Includes connectors. Shpg. wt. 1 1/2 lbs.

No. 7A2571, Model BC-830 (300 ohm in and out). Each **\$16.55**

No. 7A2572, Model BC-870 (75 ohm in and out). 3 F-59 connectors supplied. Each **\$18.50**



25 DB 82-CHANNEL COLOR SYSTEM AMPLIFIER



\$55.20

- Solid state, printed circuits.
- Separate 75 ohm inputs for VHF and UHF antennas.
- 75 ohm output.
- Power for VHF and UHF pre-amplifiers.

Extremely flat +25 db gain on all channels 2-83. System can't become obsolete when new channels come on the air. Ultra-low noise figure insures clear, snow-free color and black and white. Can be used with 82 channel antenna or separate VHF and UHF antennas. Long life, low cost operation. 117 V. AC. (VTF-73A line tapoffs recommended). 3 F-59 connectors supplied. Shpg. wt. 3 lbs.

No. 7A2578, Model DA-825A. Each **\$55.20**

Model DA-815. Similar to DA-825A but has +15 db gain. Has single 75 ohm input for 82 channel antenna and does not have preamplifier power jack. Shpg. wt. 3 lbs. 2 F-59 connectors supplied.

No. 7A2570. Each **\$37.75**

WINEGARD 30 DB. 82 CHANNEL LARGE SYSTEM AMPLIFIER

- All Solid State Printed Circuits
- 2 Volts Output per VHF lo, hi, UHF bands
- 30db gain on all 82 channels
- Separate gain controls for each band
- Switch selectable FM trap
- Separate VHF, UHF inputs



Highest quality MASTER ANTENNA TELEVISION AMPLIFIER will operate large number of TV-FM sets from single antenna installation. Amplifier features over two volts output on the VHF low band, VHF high band and UHF band at 0.5db sync compression and separate 15db gain controls on each band. Rugged commercial extruded aluminum housing. Complete with mounting bracket and 3 F-59 connectors. Shpg. wt. 6 lbs.

No. 7A2645, Model DA-830. Net Each **\$125.90**

INTERFERENCE REJECTION FILTER

① Back-Of-Set 300 Ohm Input for VHF. Eliminates FM interference and citizens band and amateur radio transmissions.

No. 7A2583, Model T-223F. Net Each **\$5.45**

FM SIGNAL TRAPS

② Back-Of-Set FM Trap and matching transformer. 300 ohm input to VHF-TV terminals is combined. Attenuates FM band -20 db.

75 Ohm input, 300 Ohm output.

No. 7A2584 Model T-283FM. Each **\$5.45**

③ Indoor FM Trap with 75 ohm input and output. Attenuates FM band -25 db. Includes 2 F59 connectors.

No. 7A2585, Model T-FM7. Net Each **\$6.70**

④ Antenna Mounted FM Trap with 300 ohm input and output. Attenuates FM band -25 db.

No. 7A2586, Model T-FM3. Net Each **\$5.95**

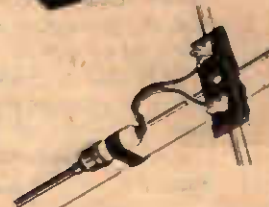


WINEGARD 75 OHM COAXIAL LINE TRANSFORMERS

Antenna Mounted or Back-of-Set Transformer

For attaching 75 ohm coaxial cable to 300 ohm antenna or to 300 ohm input to set. 82 channels, UHF/VHF. Weatherproof. With coax connector.

No. 7A2598, Model T-28 Net Each **\$2.45**



82-CHANNEL TV/FM FLUSH WALL OUTLETS

Matches perfectly the design, appearance and color of AC outlets and switches being installed in modern homes. All flush wall plates can be installed with or without standard electrical boxes. All types are complete with matching "no-strip" molded plugs. Outlet to set is 300 ohms for all types. Necessary matching circuits are built into each outlet. Average shpg. wt. 6 ozs.

Use only one on the lead direct from the antenna or booster, or one on each lead from a multiple set coupler. Outlet to set is 300 ohms. Ivory color.

Stk. No.	Winegard No.	Designed For	Input Wiring	Each
7A2529	T-3	One TV-FM Set	300 Ohm Lead	\$2.30
7A2521	T-7A	One TV-FM Set	75 Ohm Cable	3.60
7A2522	TR-35	One TV-FM & 5-Wire Rotor	300 Ohm Lead	4.25
7A2530	TR-7	One TV-FM & 5-Wire Rotor	75 Ohm Cable	4.60

No. 7A2575, T-77. One TV-FM Set. (75 ohm in and out). Each.....\$3.40
No. 7A2576, TP-10. Replacement Plug. (300 ohm lead) Each.....46¢

82-CHANNEL COAX LINE TAPOFFS WITH VARIABLE ISOLATION

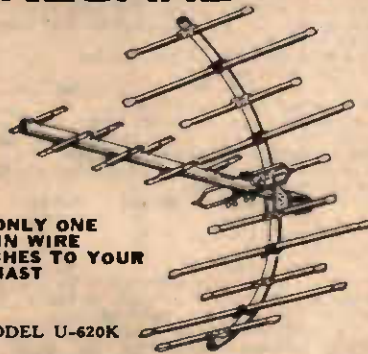
"Feed thru" type 75 ohm coaxial cable runs from tap-off to tap-off. A "wiper" arm adjustment at front of tap-off allows isolation to be varied from 10 to 25 db to balance amount of signal received at each set. No interaction between sets. Terminator should be used on last tap-off on feeder line. Outlet to set is 300 ohms, plug provided. Ivory color. Shpg. wt. 8 ozs. With P-59 push-on connectors.

Stk. No.	Winegard No.	Designed For	Input Wiring	Net Each
7A2524	VTF-73A	One TV-FM Set. Flush Mt.	75 Ohm	\$4.65
7A2597	SM-1	Surface Mtg. Box for any wall TV Plate		.62



ADD POWERFUL UHF TO ANY TV ANTENNA!

WINEGARD UHF "COLOR TRACKER" KIT



USES ONLY ONE LEAD-IN WIRE ATTACHES TO YOUR VHF MAST

AS LOW AS **\$16.25**

Features parabolic reflector and staggered yagi-type directors for unprecedented UHF performance. Rugged, lightweight and compact. All gold anodized aluminum. Comes complete, easy to install—includes back of set VHF-UHF band separator and phasing wire with connectors for quick installation to your VHF antenna. Mailable—2nd and 3rd class and RFD postage.

Stk. No.	Model	Elements	Shpg. Wt.	Net Each
7A6547	U-610K	12	6 lbs.	\$12.80
7A6548	U-620K	20	9 lbs.	16.25



SUPER TOUGH GOLD VINYL FINISH

\$34.45

LESS MAST

INCLUDES BUILT-IN TRANSPARENT CART. RIDGE HOUSING

WINEGARD FOR POWERFUL FM & FM STEREO

Enjoy the ultimate in FM sound by using one of these high gain, highly directional Super Color-trons. Rejects unwanted signals from back and sides. Near perfect 300 ohm impedance match. Includes built-in weatherproof downlead and amplifier housing. Not mailable.

Stock No.	Model No.	No. Elements	Range In Miles	Wt. Lbs.	Net Each
7A6511	SC-650	11	350	10	\$34.45
7A6512	SC-600	7	275	6	21.05

PERMA POWER



BRINGS BACK PICTURE QUALITY AND CONTRAST FOR BLACK AND WHITE TUBES

6.3 V. Filaments—Boost to 7.8 V. (Wt. 8 oz. 1)
Model C401 — Parallel 0.3, 0.45 or 0.6 A. Filaments.
No. 13A8016, Each.....\$1.26 6 Each.....\$1.09

"TU-BRITE" UNIVERSAL "IF THE BASE IS RIGHT, THE BOOST IS RIGHT"

Completely universal series or parallel, regardless of heater rating. No charts to check. Has slide switch for series or parallel. Will not endanger delicate filaments through too much voltage boost. Shpg. wt. 8 ozs.
No. 13A8018, Model C-202, Duodecal Base. Series 0.6 A. filaments.
No. 13A8019, Model C-212, 110° Button Base. Choice
No. 13A8020, Model C-222, 110° Shell Base, Each.....\$2.80 6 Ea.....\$2.40

"HUE-BRITE" FOR COLOR TUBES

Uses type 501 and 511 where filament boost only is required; 502 and 512 for isolation to overcome picture tube filament-to-cathode short. For most 70° base 21" round color tubes wt. 2 lbs.
No. 13A8032, C-501, Boost only, Each.....\$6.58 6 Ea.....\$5.65
No. 13A8033, C-502, Isolate only, Each.....\$7.70 6 Ea.....\$6.60
No. 13A8045, C-503, Isolate/Boost Type, Each.....\$9.03 6 Ea.....\$7.75
For 90° base 19", 23" and 25" rectangular color tubes. Wt. 2 lbs.
No. 13A8034, C-511, Boost only, Each.....\$6.82 6 Ea.....\$5.85
No. 13A8035, C-512, Isolate only, Each.....\$8.05 6 Ea.....\$6.90
No. 13A8044, C-513, Isolate/Boost Type, Each.....\$9.03 6 Ea.....\$7.75

SINGLE-BRITE COLOR GUN CONTROL
Restores color balance when one gun fades. Lets you adjust the bias of the weakened gun. A brightener may be added later when tube aging dulls the entire picture!
No. 13A8039 Model B-150, Each.....\$4.80



TUBE GUARD

Eliminates voltage surge, main cause of TV and radio failure. Feeds current slowly while tubes and parts warm-up. Minimizes replacement costs. For TV, radios, Hi-Fi, recorders, CB—all types of electronic equipment. Shpg. wt. 8 ozs.
No. 7A2543, 300 Watt Tube Guard Each.....\$1.69
No. 7A2605, 600 Watt Tube Guard for color TV, Each.....2.19

STANCOR COLOR TV DEGAUSSING COIL SHARPENS COLOR BY REMOVING PIX TUBE MAGNETISM

A service tool "must" for every shop. Ruggedly constructed to withstand years of use. Has in-line cord switch. Complete instructions included. Very easy to use.
No. 13A340, Model DGC-100, Net Ea.....\$22.07



FAMOUS DRAKE "HIGH PASS" TV FILTER

CLEAR UP MOST PROBLEMS CAUSED BY UNWANTED SIGNALS



To stop interference entering TV Set through 300 ohm antenna lead. Eliminates amateur or other signals on 6 thru 160 meters. 60 db attenuation from zero to 52 Mhz. Does not decrease TV signal itself.
7A2535, Type TV-300-HP, Wt. 8 oz. Net Ea.....\$5.45



COLOR GHOST ELIMINATOR

INSTALLS IN ANTENNA LEAD AT SET \$4.99

HERE'S HOW IT WORKS...

All color TV sets are sensitive to signal overload and produce pictures of poor quality often full of ghosts and other problems. REDUCING the signal is the cure! Color ghost eliminator has knob to adjust antenna input for best possible results. Every set needs one! Size 3 3/8" x 2 5/8" x 1 3/4" H. Shpg. wt. 8 oz.
No. 7A2592, Special Each.....\$4.99

WINEGARD

HIDEAWAY TRAVEL TV ANTENNA

IDEAL FOR TRAILERS, CAMPERS, BOATS AND MOBIL HOMES



- o PICKS UP STATIONS IN ALL DIRECTIONS
- o OPENS AND CLOSSES LIKE AN UMBRELLA

\$28.15

Completely weatherproof. Shielded coaxial cable helps eliminate ghost images. Compact, neat appearance. Anyone can install it easily. For black and white or color or all channels 2-83 plus FM. Complete outfit includes antenna in weatherproof housing with rain cap, shielded antenna cable with connectors, back-of-set VHF/UHF band separator and mounting hardware.
No. 7A6588, Each.....\$28.15

ANTENNA INSTALLATION ACCESSORIES

LEAD-IN INSULATORS

① WOOD SCREW TYPE

Stk. No.	Type Insert	Length	Each	5 For	100 For
7A214	For Flat Line	3 1/2"	10c	35c	\$4.03
7A215	Flat or Tubular	3 1/2"	10c	35c	4.03

② STRAP-ON MAST TYPE

Stk. No.	Type Insert	Length	Each	5 For	100 For
7A216	For Flat Line	3 1/2"	30c	\$0.87	\$14.49
7A217	Flat or Tubular	7 1/2"	38c	1.13	8.46

SOLID POLYETHYLENE INSULATORS

VERY LOW LOSS—NO METAL SURROUNDS THE WIRE

Made specially for Belden 8290 shielded Permohm lead and other heavy duty oval or tubular types; works with any type flat, oval or round lead. Insulator locks on.

① WOOD SCREW TYPE

Stk. No.	Lgth.	Each	5 For
7A218	3 1/2"	10c	39c
7A219	7 1/2"	18c	70c

② STRAP-ON MAST TYPE

Stk. No.	Lgth.	Each	5 For
7A235	3 1/2"	19c	72c
7A236	7 1/2"	23c	85c

SPRING TYPE ROTATOR STANDOFF INSULATOR

Prevents premature line failure. Pipe strap mounting. Overall Length 13".
No. 7A220. Net Each.....\$1.29

MOSLEY TV LEAD-IN INSULATORS



① UNIVERSAL ROOF-THRU/WALL-THRU. Versatile antenna and rotor lead-in entrance accepts all types of cable; coax, shielded, heavy and regular 300 ohm line. Absolutely weatherproof when properly installed on sloped roof or wall of any structure. Molded polystyrene with gasket and hardware. No. 7A230. Type M-60. Net Each.....\$1.70

② WEATHER-PROOF "WALL-FEED" LEAD ENTRANCE. For entrance into attic, trailer wall, etc. Has molded weather hood and 2" polystyrene tube adaptable to thickness of most types of exterior wall. Ivory color. No. 7A231. Type 626. For all types of lead. Net Each.....\$1.20

③ WEATHER-PROOF "WALL-THRU" BUSHING. For all types TV transmission line and small coax cables. Has anchor points for open wire line. Installs through 1 1/2" dia. round hole in walls up to 13" thick. End plates are molded polystyrene, tube is extruded polystyrene. No. 7A232. Type 625. Ivory color. Net Each.....\$1.25

FLAT 300 OHM LINE CONNECTORS



Stock No.	Mosley No.	Description	Net Ea.	10 For
① 7A221	301	Line Plug—Mates with Fig. 2 Socket	\$0.45	\$4.05
② 7A222	311	Line Socket—Mates with Fig. 1 Plug	.45	4.05
③ 7A223	304	Terminal Adapter—Mates with Fig. 2	.45	4.05
④ 7A233	275	Joins 300 ohm lead. Solderless	.25	2.25
⑤ 7A234	295	Joins tubular to flat 300 ohm lead	.25	2.25

3-WAY ANTENNA OR SPEAKER SWITCH

Double pole, 3 positions. For 300 ohm antenna leads, speakers, etc. Screw terminals.
No. 7A2549. Masley F-20. Net Each.....\$4.35

HANDY TV ANTENNA CONNECTORS

Mighty handy. Makes connecting and disconnecting 300 ohm lead from TV set quick and easy. Snaps onto antenna terminals of set. Shpg. wt. 1 oz.
No. 7A242. 10 Lots, 15c
Net Each.....19c Each.....15c

15c

Each, 10 Lots



STRANDED GALVANIZED STEEL GUY WIRE

Highest quality, full gauge steel wire, heavily galvanized to prevent rust and corrosion. Specially called to minimize kinking and tangling. Approximate breaking strengths: 4 strand No. 20, 240 lbs.; 6 strand No. 20, 350 lbs.; 6 strand No. 18, 640 lbs. Approx. shpg. wts. from 13 to 33 lbs. per 1000 ft. 50-FT. CONNECTED COILS

Stk. No.	Description	Length	Spool	Stk. No.	Description	Coil	10 Coils
2B148	6 strands No. 20	1000'	\$9.30	2A6022	4 strands No. 20	38'	\$3.30
2B149	6 strands No. 18	500'	\$9.45	2A6030	6 strands No. 20	54'	4.65
				2A6023	6 strands No. 18	79'	7.20

GALVANIZED HEAVY DUTY GUY CABLE

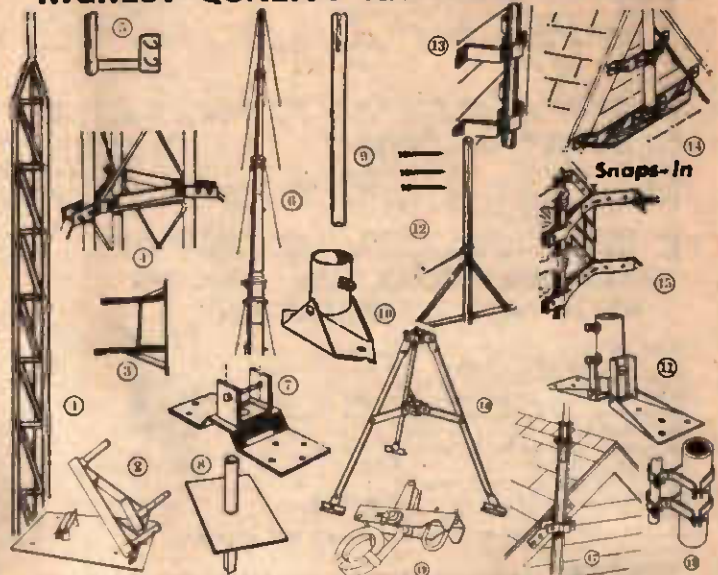
3/4" high strength 7 wire pre-formed stranded steel. Rated 2,850 lbs. breaking. Wt. 68 lbs. per 1000 ft.
No. 2A6031. 100 Ft. \$5.99 1000 Ft. \$45.99

SCREW-IN EARTH ANCHOR FOR GUYS

Very easy to install. Literally screws into ground at an angle to conform with pull of the guy. Pounds of pull rating is for average soil. Rods are 48" long, have 1 1/2" eye.

Stk. No.	Withstands Pull	Description	Wt.	Each	6 @ Ea.
7A8514	1500 lbs.	4" Plate, 1 1/2" Dia. Rod	6 lbs.	\$3.39	\$2.99
7A8515	2500 lbs.	6" Plate, 3/4" Dia. Rod	8 lbs.	3.95	3.55

HIGHEST QUALITY ANTENNA MOUNTS



① ROHN 25G GALVANIZED 1 1/2" TRIANGULAR TOWER SECTIONS
Will stand 35 feet above house bracket without guys, 200 ft. max. when guyed. Hot-dipped galvanized seamless 1 1/4" heavy wall uprights, 8 precision welded zig-zag braces per 10 ft. section, double bolted section joints.
No. 7A8511. 10 Ft. Straight Section. Rohn 25G. 40 lbs. Net Each.....\$24.10
No. 7A8512. 9 Ft. Top Section for 1 1/4" Mast. 31 lbs. Net Each.....\$25.75
No. 7A8513. 8 Ft. Amateur Top Section. 11" dia. flat top plate, 2 1/4" center hole. Rohn 25AG-4. 31 lbs. Net Each.....\$28.15

7A9500. Ground Base & 3-4 Ft. Drive Rods. 18 lbs. Per Set.....\$14.95
7A9501. Hinged Base. BPH-25G. 21 lbs. Net Each.....\$26.70
7A9502. House Bracket, 15" to 24" Rohn HB25BG. 12 lbs. Net Each.....\$7.85
7A9503. Guy Bracket with 3 Torque Bars. 9 lbs. Set.....\$11.00
7A9504. Rotor Post. Mounts inside tower. 3 lbs. Net Each.....\$2.35
7A9505. Rotor Plate. AS-25G. For Ham "M" inside tower. 5 lbs. Ea.....\$10.35

② ROHN GALVANIZED TELESCOPING MASTS
Heavy 17 gauge. Has mast brake for simpler installations. Sections 10' long hot-dipped galvanized inside and out. With guy rings.

Stk. No.	Height	Tubing Size	Wt. Lbs.	Net Ea.	8 Lots, Ea.
7A8501	20 Ft.	1 1/2" to 1 1/4"	15	\$10.60	\$10.07
7A8502	30 Ft.	1 3/4" to 1 1/4"	24	17.00	16.16
7A8503	40 Ft.	2" to 1 1/4"	34	24.20	22.99
7A8504	50 Ft.	2 1/4" to 1 1/4"	48	32.75	31.11

③ 7A203. Universal Base. All-angle, rotatable. For masts to 2 1/4" dia. 2 lbs. Each.....\$1.56
④ 7A204. Ground Mount. Handy drive-in type. 1 1/4" dia. 3 1/2 lbs. Each.....\$2.05
⑤ 7A205. Side Mount Clamp 1 1/4" thru 2 1/2" O.D. Net Each.....\$2.40

⑥ STEEL MASTS—self coupling, stacking.
⑦ 7A8520. 5 Ft. x 1 1/4" 16 Gauge galvanized steel. 4 lbs. Ea.....\$1.69 8 Ea.....\$1.65
⑧ 7A8521. 10 Ft. x 1 1/4" 16 Gauge galvanized steel. 8 lbs. Ea.....\$3.29 6 Ea.....\$2.99
⑨ 7A8522. 10 Ft. x 1 1/2" 16 Gauge galvanized steel. 10 lbs. Ea.....\$4.39 6 Ea.....\$3.99

⑩ 7A206. All-Angle Base. For masts to 1 1/2" dia. 1 1/2 lbs. Ea......75 12 @ Ea.....\$1.30
⑪ 7A207. Univ. Roof Mount. Galv. steel. 1 1/2 lbs. Ea......95 12 @ Ea.....\$1.47

⑫ NO-GUY ROOF MOUNT. With 4 Ft. Galvanized Steel 1 1/4" Mast
7A8510. Hot-dip galvanized steel. Wt. 3 lbs. Ea.....\$3.60
⑬ CLOSE WALL MOUNT. 4" clearance. Mounts masts to 1 3/4" dia. 7A228. Zinc plated steel. 1 lb. Per Pr.....99c 10 Pr. Ea.....94c
⑭ HOUSE PEAK MOUNT. 30" long. For masts to 1 3/4" dia. 7A226. Zinc plated steel. 4 lbs. Per Pr.....\$4.61 10 Pr. Ea.....\$4.38

RATCHET CHIMNEY MOUNT
Tightens straps easily...equally.
No. 7A276. With 12' long galvanized straps. Per Pr.....\$5.20 10 Pr. Ea.....\$4.70

⑮ STAINLESS STEEL STRAP CHIMNEY MOUNT for 1 1/4" dia. masts
7A227. 4 lbs. Per Pr.....\$4.98 10 Pr. Ea.....\$4.74

⑯ ROHN TRIANGULAR ROOF MOUNTS
Hot dipped galvanized tubular steel. Takes masts to 1 3/4".
No. 7A9506. 2 Ft. Type TRT36. Wt. 8 lbs. Net Each.....\$6.00
No. 7A9507. 5 Ft. Type TRT60. Wt. 11 lbs. Net Each.....\$9.70

STAINLESS STEEL STRAPPING
No. 7A9510. Two 3/4" wide 18 ft. long. Each.....\$6.99 10 Each.....\$8.70

⑰ VENT AND PIPE MOUNT
For 3/4" to 2" vents. Takes masts to 1 1/2".
No. 7A9508. Per Pair.....\$1.49 10 Pair Each.....\$1.35
No. 7A9509. Vent Mount 3 to 6". Per Pr.....\$3.29 10 Pair Each.....\$2.99

GUYING ACCESSORIES

Stk. No.	Description	Each	10 For
① No. 7A237.	3/4" GUY WIRE CLAMP.	.29	10 For 2.49
② No. 7A238.	4"x3/4" TURNBUCKLE.	.29	10 For 2.49
③ No. 7A211.	5 1/2"x1 1/4" TURNBUCKLE.	.32	10 For 2.79
④ No. 7A239.	7 1/2"x3/4" TURNBUCKLE.	.89	10 For 7.90
⑤ No. 7A208.	GUY WIRE THIMBLE.	.10	10 For .69
⑥ No. 7A240.	1 1/4" MAST GUY CLAMP.	.45	10 For 4.00
⑦ No. 7A273.	Guy Wire Anchor Bracket, less thimble.	.36	10 For \$3.06
⑧ No. 7A213.	Screw Eye Guy Anchor.	.10	10 For .89
⑨ No. 7A209.	1 1/2" Strain Insulator.	.15	10 For 1.29
⑩ No. 7A241.	Heavy Strain Insulator. 2" long.	.35	10 For 2.99
⑪ No. 7A274.	Hex Head Lag Screws. 1/4 x 1 1/2".	.10	10 For 69c
⑫ No. 7A275.	Hex Head Lag Screws 3/8 x 3".	.12	10 For 79c



TV-FM COUPLERS WALL PLATES AND NOISE FILTERS

DON'T MISS THESE FINE IMPORT SAVINGS!



UHF-VHF Antenna Coupler. Joins separate antennas for single 300 ohm lead. Weatherproof mast mtg. 7A2546. Each Only **99c**



UHF-VHF TV Splitter. Divides TV signal from single 300 ohm lead. Connects to UHF and VHF set terminals. 7A2547. Special Ea. **\$1.59**



TV Cheater Cord. UL approved 6' cord. Enables plugging in set while back panel is detached or chassis out of cabinet. Wt. 4 ozs. 41A371 **35c**



VHF-TV-FM 2-Set Coupler. For 300 ohm lead. Efficient balun coil type. Very easy to connect. 7A2502. Special Ea. **\$1.69**



UHF-VHF TV-FM 4-Set Coupler. For color or black and white, all 82 channels. Self-piercing terms. For 300 ohm lead. 7A2548. Special Ea. **\$2.49**



VHF-FM 75/300 Ohm Trans. Couples coaxial lead to 300 ohm. For use at input of set. 7A2553. Special Ea. **\$1.99**



VHF-FM 75/300 Ohm Outlet. Ivory plate and coupling transformer in single unit. Surface or recessed mtg. 7A2554. Special Ea. **\$2.42**



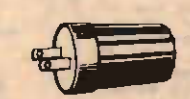
300 Ohm Line Connectors. With set screws for securing flat line. Plugs together, easy to disconnect. 7A229. 2 Sets For **99c**



2-Cond. Socket and Plug. Handy for 300 ohm lead, speakers, intercom, etc. Mounts on surface with screws. 7A2555. Per Set **99c**



TV Wall Plates. Ivory. Has 2-300 ohm outlets, with plugs. 7A2556. Ea. **99c** For 2-Ants. and 5-wire rator, with plugs. 7A2557 Ea. **\$1.35**



AC Line Noise Filter. Plug-in, easily installed. Stops static caused by most electrical devices. 7A2594. Special Each **99c**



TV Interference Filter. Eliminates or reduces interference from ignition, radio transmitters, etc. Induced through antenna lead. 7A2593. Ea. **\$1.69**

ANTENNA GROUNDING ACCESSORIES



① UNIVERSAL UHF-VHF LIGHTNING ARRESTOR

Will handle all TV or FM Arrestor problems.

Works with open, flat, or tubular lead-in on both UHF and VHF. Toothed washers pierce lead insulation—requires no lead stripping. Installs easily inside or out. Made of sturdy, molded plastic with brass weather-resistant hardware. Shpg. wt. 12 oz.

No. 7A224. Net Each **89c** 10 Lots, Each **590**

② NO. 8 ALUMINUM GROUND WIRE

Soft drawn. Recommended by National Electrical Code. Wt. 2 lbs. 100 ft. No. 2B29. 50 Ft. Coil **\$1.49** 100 Ft. **\$2.80**

③ GROUND CLAMP

For attaching ground wire to masts, pipes, etc., up to 1 3/8" dia. Rigid channeled construction gives five point contact. Case hardened screw. No. 7A225. Mueller Type 58. Each **40c**; 10 Lots, Each **28c**

④ GROUND ROD

Efficient, easy-to-install, copper plated steel. One end pointed for driving. Other end has screw-clamp to hold No. 4 to No. 14 gauge wire. Shpg. wt. 3 lbs. No. 7A8509. 3/8" x 4 Ft. Each **\$1.39** 10 Lots Each **\$1.19**

UHF-VHF TELEVISION TWIN LEADS



BELDEN COPPER 300 OHM TWIN LEAD, 8225. Highest quality brown polyethylene insulated. Wt. 17 lbs. per M.
Stk. No. 25 Ft. 50 Ft. 100 Ft. 1000 Ft.
2A9970 87c \$1.34 \$2.18 \$19.35

① **BELDEN WELDON FLAT 300 OHM TWIN LEAD, 8230.** Has 1/2 times the strength of pure copper, yet retains all the electrical characteristics. 72 mil brown poly. 20 gauge copper coated steel wire. 18 lbs. per M.
Stk. No. 25 Ft. 50 Ft. 75 Ft. 100 Ft. 1000 Ft.
2A9923 95c \$1.43 \$1.89 \$ 2.37 \$21.60

② **BELDEN CELLULOSE 300 OHM LEAD, 8275.** Ideal for color or black and white. Highly efficient, VHF or UHF. Absolutely water-proof cellular foam construction. Brown poly. jacket. .356 O.D., 7/28 copper over steel conductors. 36 lbs. per 1000 ft.
Stock No. Per Ft. 100 Ft. 500 Ft. 1000 Ft.
2A9924 7c \$4.86 \$23.10 \$45.30

③ **NEW BELDEN "PERMONM" 300 OHM LINE, 8285.** Ideal for color or black and white. Lower loss, more constant impedance, compared to regular line. Not affected by extremes of salt spray, industrial contamination, rain or snow. Encapsulated in low-loss cellular polyethylene. Copperweld 7X30 conductors. Oval .255" x .468". Wt. 16 lbs. per 1000 ft. For VHF or UHF.
Stk. No. 50 Ft. 75 Ft. 100 Ft. 500 Ft. 1000 Ft.
2M9922 \$3.08 \$4.08 \$5.25 \$23.65 \$47.30

④ **BELDEN 8290 SHIELDED PERMONM.** The long awaited perfect lead-in for all 82 channels color or black and white. Eliminates interference caused by line pick-up. Easy to install... no standoffs, tape it to the mast, run through gutters, conduit, even underground. No matching transformer needed. Stranded copperweld, 2 conductors, cellular polyethylene oval insulation, Beldfoil shield, polyethylene 1/2 x 5/16" oval jacket overall. In coils as priced.
No. 2M9926 75 Ft. 100 Ft. 500 Ft.
50 Ft. For. \$6.10 For \$8.25 For \$10.40 For \$49.10

BELDEN 9085 LEAD-IN WIRE. Designed for reception in low interference suburban areas.
Stock No. 25 Ft. 50 Ft. 75 Ft. 100 Ft.
No. 2M493 \$1.48 \$1.97 \$2.58 \$3.24

BELDEN 9090 LEAD-IN WIRE. Shielded to provide cleaner, stronger signals in high interference metropolitan areas.
Stock No. 25 Ft. 50 Ft. 75 Ft. 100 Ft.
No. 2M494 \$3.29 \$4.56 \$5.78 \$7.13

⑤ **1-INCH LOW LOSS OPEN LEAD—450 OHMS**
Size 18 solid conductor copperweld with 1/4" polystyrene insulators spaced every 6". Recommended for weak signal areas or where extremely long lines are needed. Matches 300 ohm antennas and receivers. Wt. 2 1/2 lbs. 100 ft. No. 2A9967 100 Ft. Coil. **\$4.40** No. 2A9968. 500 Ft. Reel. **\$19.95**

75 OHM COAXIAL TV ANTENNA CABLE



Professional antenna installers have learned that 75-ohm coaxial is well worth the small additional cost over flat 300-ohm antenna wire. It is shielded to effectively block out interfering signal(s) which cause ghost images in metro and suburban areas. It can be run next to metal or through conduit without degrading TV signals. It has much longer life and will rarely require replacement. (300-ohm antenna wire is still considered satisfactory for deep fringe area use.)

FOR UHF-VHF, COLOR OR BLACK AND WHITE

Made of highest quality, low-loss coax having 82 channel color capability. Strong and flexible. Has copperweld center conductor, polyethylene foam dielectric, two-layer aluminum foil plus polyester film for 100% shielding and black PVC weather abrasion resistant jacket. Can be taped to masts, run close to metal without affecting signal.

BELDEN 8228 75 OHM 82-CHANNEL DUOFOIL COAX

Lowest loss of any .242" O.D. 75 ohm coax. 100% polyester film with aluminum lamination shield. Wt. 3 1/2 lbs. per 100 ft. Use F-56 connectors.
No. 2A9983. 100 Ft. 1000 Ft.
Per Ft. **8c** For **\$6.75** For **\$44.80**

CABLES WITH F-59 CONNECTORS BOTH ENDS

No. 2A428. 100 Ft. Black Color. wt. 2 lbs. Net Each **\$10.15**
No. 2A427. 75 Ft. Black Color. wt. 1.5 lb. Net Each **\$8.35**
No. 2A426. 50 Ft. Black color wt. 1 lb. Net Each **\$6.55**
No. 2A4025. 25 Ft. Black Color. wt. 10 oz. Net Each **\$4.85**
No. 2A425. 15 Ft. Black Color. wt. 8 oz. Net Each **\$3.65**
No. 2A9887. 12 Ft. White Color. wt. 8 oz. Net Each **\$3.19**
No. 2A9886. 6 Ft. White Color. wt. 6 oz. Net Each **\$2.59**
No. 2A9885. 3 Ft. White Color. wt. 4 oz. Net Each **\$2.29**

F-CABLE CONNECTORS

(1) 7A267. F-56. Fits Belden 8228 cable. Ferrule supplied. Each **56c** 12 Each **48c**

(1) 7A262. F-59. Fits RG59/U Coaxial cable, solid or foam dielectric type. Ferrule attached. Ea. **45c** 12 Ea. **35c**

(2) 7A263. FP-59. Fits RG59/U type cable. Mates with any standard F-type panel connector by simply pushing over threaded portion. F-59 ferrule supplied. Ea. **85c** 6 Ea. **75c**

(3) 7A264. P-59TB. DC blocking terminator for P-59 connectors. Use on last tap of each trunk line. Each **\$1.20** 6 Each **\$1.01**

(4) 7A265. F-11. Fits RG11/U coaxial cable solid or foam dielectric type. Each **\$1.35** 6 Each **\$1.06**

(5) 7A266. F-81M. Cable to cable adaptor connects two F-59 or F-11 connectors together. Ea. **\$1.25** 6 Ea. **\$1.18**

FERRULE CRIMPING TOOL



Ferrule crimping tool assures tight, neat crimp every time. Has forming slots for both RG-59/U and RG-11/U coaxial cable. Shpg. wt. 1 lb. No. 37A999. Model CR-1. Net Each **\$7.95**

a lot more TV | FM enjoyment
for a lot less money

RCA Indoor Antennas



MOEEL
10X808
\$24⁹⁵

**Selectacolor
Rotating
Antennas**

**FOR COLOR,
BLACK AND WHITE
TV UHF/VHF/FM**



MODEL
10X800
\$19⁹⁵

Combines revolutionary performance features with decorator-inspired styling to set a new standard for indoor antenna performance and design.

Exclusive UHF director/reflector loop for directional UHF reception. It gives the user greater control and more accurate tuning for sharper, clearer reception.

Unique dual antenna rotation. By controlling a single knob, the user sets UHF and VHF elements for maximum pickup. Dipoles rotate in opposite direction to UHF receptor to minimize coupling between UHF & VHF sections.

12-position selector for precise fine tuning. Push button controls for widening the range of tuning combinations. The Selectacolor not only works great, it looks great. Beige and brown cabinet. Shpg. wt. 5 lbs.

No. 7A4525. Model 10X808. Each.....**\$24.95**

One of RCA's newest achievements in indoor antenna engineering and design. Selectacolor 10X800 is an exciting combination of revolutionary performance features and decorator-inspired styling.

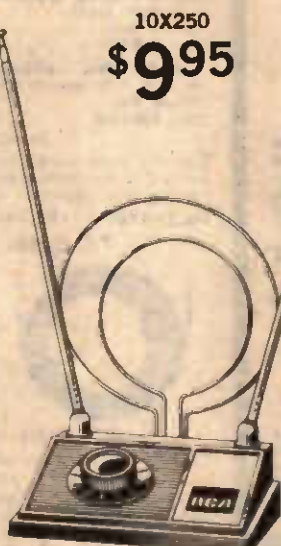
Selectacolor pulls color and black and white images with more precise control than ever before possible. Its unique dual antenna rotation, controlled by a single knob, permits user to set UHF and VHF elements without actually touching them. Dipoles rotate in opposite direction to UHF loop to minimize coupling between UHF and VHF sections. 12 position fine tuning knob.

Selectacolor, with its handsomely styled beige and brown cabinet with walnut finish inlay, looks great with any decor. You'll have to see it to believe it. Shpg. wt. 5 lbs.

No. 7A4524. Model 10X800. Each.....**\$19.95**



10X280
\$15⁹⁵



10X250
\$9⁹⁵

10X280 VHF/UHF/FM. 45" telescoping dipole elements, full swivel ball sockets, 12 position selector switch. Special color circuitry. Rotating double UHF loop. Beige finish with walnut inlay. Wt. 3 lbs.

No. 7A4517. Each.....**\$15.95**

RCA has designed low silhouette decorator antennas that will complement any decor and increase your TV viewing enjoyment. "Space age" engineering in each antenna assures you of maximum reception at value prices.



10X203
\$5⁹⁵

10X250 VHF/UHF/FM. 45" telescoping dipole elements, full swivel ball sockets, 12 position selector switch. Double UHF loop. Brown finish. Wt. 2 1/2 lbs.

No. 7A4518. Each.....**\$9.95**

10X203 UHF/VHF/FM. 38" telescoping dipole elements, 12 position selector switch. Single UHF loop. Brown finish. Wt. 2 lbs.

No. 7A4523. Each.....**\$5.95**

Winegard

\$17⁹⁵

**THE ANTENNA THAT
DOESN'T BELIEVE IN GHOSTS!**

COLOR-CEPTOR CR-300

**BEST FOR COLOR AS WELL
AS BLACK AND WHITE**

**FOR ALL-CHANNEL RECEPTION
2 TO 83 VHF AND UHF**

At last — an indoor antenna that "shuts out" ghosts, eliminates interference from cars, planes, appliances . . . lets you really enjoy all TV broadcasts.

Has exclusive signal filter and signal splitter for back of set. Uses coaxial cable instead of usual 300 ohm line to shield out ghost pickup. Fine tuning control touches up performance on all channels.

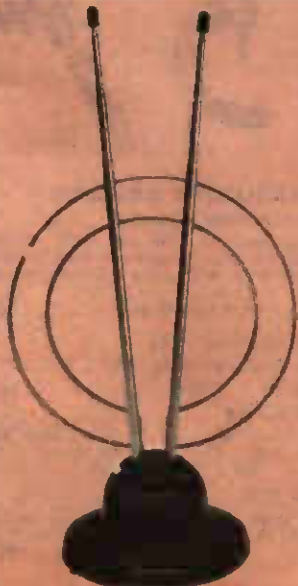
Made of finest materials throughout, with 4-section elements that telescope smoothly from 45" to 12", and a molded decorator styled 7 3/4" x 6 1/2" base that won't tip or mar furniture. Shpg. wt. 3 lbs.

No. 7A4514. **\$17.95**
Walnut Brown. Each.....

RCA

**PACESETTER
III
INDOOR
ANTENNA**

\$3⁹⁵
EACH



All channel UHF/VHF/FM antenna for sharper, clearer pictures in color or black and white. It's easy to see the difference with an RCA Indoor antenna. Handsome brown finish, Shpg. wt. 1 1/2 lbs.

No. 7A4526. **\$3.95**
Model 10X218. Each.....

ANTENNA ROTORS FOR IMPROVED TV RECEPTION

CDE CORNELL-DUBILIER

HEAVY DUTY ANTENNA ROTORS

FOR TV AND AMATEUR BEAMS



AR-22R



AR33

CHOICE OF CONTROLS

\$44.95

MODEL AR-22R



HEAVY DUTY ROTOR UNIT. First choice of thousands! Rotates at approximately 1 RPM with positive, automatic stop in either direction. Instant reversing. Built-in 6 1/2" diameter ball thrust bearing will handle heavy antenna... no additional bearing support needed. Clamps take 7/8" to 2" dia. Mounts also on flat surface when lower most support is removed. Mechanism has oilite and ball bearings, lifetime lubrication. Shpg. wt. 15 lbs. With Automatic Control AR-22R. Antenna turns and stops as dialed. Use 4-wire cable. Mfg. List \$59.95. No. 7A2538. Net Each **\$44.95**

PUSH-BUTTON AUTOROTOR MODEL AR33

Brand new! Only push-button controlled rotor made. Set antenna direction once for each of 5 channels... then return to that direction automatically by push-button selector. Also has dial controlled selector for any compass point. Completely silent, all solid state. Use standard 5-wire cable. With same heavy duty rotor unit, as other models above. Wt. 15 lbs. Mfg. List \$79.95. No. 7A2545. Model AR33. Push-Button Rotor. Each **\$59.95**

BELDEN ANTENNA ROTOR CABLE



Stk. No.	Belden Type	Description	Per Ft.	100 Ft.
2B20	8464	4-Cond. #20 Flat	6c	\$4.50
2A9940	8463	5-Cond. #20 Flat	7c	5.49
2B21	8485	5-Cond. #20 Round	7c	5.85
2B22	8488	8-Cond. #22 Round	8c	6.75



RMS ALL TRANSISTOR UHF CONVERTER DELIVERS UHF PICTURES WITH EXTRA BRILLIANCE

Adds Channel 14 to 83 Color or B & W to your TV Set. Size only 9 3/4" x 4 1/2" x 2 1/2" H. Fully transistorized, gives tremendous performance and reliability. Features continuous channel tuning. Converts UHF stations to channel 5 or 6. Switches in and out of use instantly. Powered from 115 V. 60 Hz. AC. Shpg. wt. 2 lbs. Mfg. List \$39.95. No. 7A2544. Model CR-300. Net Each **\$19.95**



SOLID-STATE DELUXE UHF CONVERTER RMS MODEL CR-880 WITH POWERFUL AMPLIFIER

Advanced circuit provides 30 db. gain for clearest possible UHF reception. Even out-performs "front-end" of TV sets already equipped for UHF, bringing in clear, sharp pictures. Push-button controls for OFF-ON and UHF/VHF selection add extra convenience. Attractive charcoal gray decorator-styled cabinet 10" x 4 1/2" x 2 1/2" H. Shpg. wt. 2 lbs. For 115 V. AC. No. 7A2558. Model CR-880. Mfg. List \$49.95. Net Each **\$29.95**

CDE CORNELL-DUBILIER

SOLID STATE ANTENNA ROTORS

\$36.95



AR-20



AR-30

CHOICE OF 2 CONTROLS

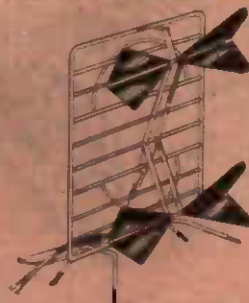
Silent quiet operation. Eliminates the switching noise found in most control boxes. Decorator styled control compliments any decor. On/Off light. Full 360° turn. Gold finish on rotor matches antennas. Weatherproof, heavy duty die-cast zinc housing. Easily assembled to mast. Requires 45 seconds for full turn. Positive braking system. Use 5 wire cable. Operates on 110VAC. Shpg. wt. 12 lbs. Mfg. List \$59.95. No. 7A9512. Model AR30. Each **\$44.95**
Automatic control. Will stop automatically at position dialed. Same rotor unit as above. No. 7A9513. Model AR20. Each **\$36.95**



UHF INDOOR TV ANTENNA

\$6.95

BLACK AND GOLD FINISH



Greatly improves your enjoyment of UHF channels. For color or black and white. Simply place on TV set and connect to UHF terminals on back of set. Size: 14 1/2" x 13 x 4 1/4". Shpg. wt. 2 lbs. No. 7A4527. Each **\$6.95**

SAVE ON B-A'S TOP QUALITY TV ANTENNAS



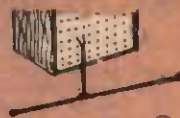
①



②



③



④

① **STANDARD 4-SECTION RABBIT EARS**
VHF Channels 2 to 13. Only 13" high... but extends to full 38" to capture maximum signal. Ratchet-swivel design permits quick, easy and positive positioning of dipoles. Decor-styled mahogany base has fine appearance. Weighted to prevent accidental tipping. Complete with 300 ohm lead. Wt. 2 lbs. Standard Channel 2-13 "Rabbit Ear". No. 7A4501. 10 Lots Each **\$1.25**
Net Each **\$1.49**

② **BEHIND THE SET ANTENNA**
Fits most portables... other sets too! Installs easily on back of set. Telescoping 38" dipoles pivot on ball socket in all directions, disappear into antenna housing when not in use. Length closed 7 3/4". No. 7A4503. Wt. 2 lbs. Each **\$3.46**

③ **UHF LOOP ANTENNA**
Adjustable swivel brackets. Attaches to TV easily. Adjusts to any angle up or down. No. 7A4513. Each **99c**

④ **FM INDOOR ANTENNA**
Concealable local FM antenna that can be tacked to the back of furniture, layed along carpet, etc. Picks up FM signals far better than most built-ins. No. 7A4504. Wt. 4 ozs. Net Each **\$1.49**

HIGH PERFORMANCE AUTO ACCESSORIES



**THE FABULOUS
MARK-10
CAPACITIVE
DISCHARGE
IGNITION
SYSTEM**

**OPERATE CAR,
BOAT, OR TRUCK,
MORE EFFICIENTLY**

**\$29⁹⁵
KIT**

Increases acceleration and general performance. Incorporates advantages of capacitive discharge with those of solid state electronics. Spark plugs last 3 to 10 times longer. Instant starts in all weather. Installs in less than 10 minutes directly to a standard ignition system with no rewiring. Shpg. Wt. 4 lbs.

No. 47A5511, Mark 10 Kit Each **\$29.95**
No. 47A5512, Mark 10 Factory Assembled Each **\$39.95**

**DELTA
MARK TEN-B
IGNITION
SYSTEM**

**HIGHLY
RECOMMENDED
FOR NEWER
MODEL CARS**



\$49⁹⁵

Completely new trigger circuit provides variable pulse duration. Highly recommended for newer model cars that utilize clean air packages. Built-in switch for using either conventional ignition or Mark 10B after the Mark 10B is installed. Completely closed housing. Rubber gaskets on end plates. With heat radiating plastic end plates. Shpg. wt. 4 lbs.

No. 47A5547, Net Each **\$49.95**

QUARTZ-IODINE FOG AND DRIVING LAMP
● 260,000 CANDLE POWER

High power, long life lamp. Fog lamp beam penetrates the heaviest fog. Driving lamp reaches far ahead at normal high beam. Has chrome plated, die-cast slim line body. For 12 volt system. Size: 5 3/4" dia. 2 1/2" deep. Wt. 2 1/4 lbs.

No. 47A5578, **\$13.75**
Driving Lamp Clear, Each **\$13.75**
No. 47A5579, Fog Lamp, Amber lens, Each **\$13.75**
No. 47A5580, Replacement Bulb, Each **\$4.95**
No. 47A5636, Blue Lens for above Each **49¢**

\$13⁷⁵



REVOLVING SAFETY LIGHT

\$5⁹⁵

**TWO LENS—Red and Amber
For Maximum Versatility**

Operates from lighter outlet of 12V. auto. Rubber suction cup adheres to any smooth surface, 5" high, 15 ft. cord. Wt. 2 lbs.

No. 47A5520 **\$5.95**

CIGARETTE LIGHTER PLUG

\$1¹⁹

Fits 6 or 12 V. auto lighter. 32 inch leads and lugs. Use for emergency lights, CB equipment, recorders, TV, 100's of other uses.

Quality Import. Wt. 2 ozs. No. 47A5517, Each **\$1.19**

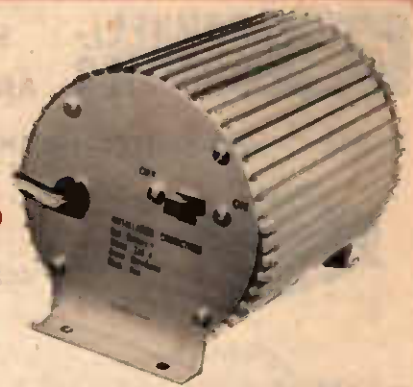


**TIGER SST
CAPACITIVE
DISCHARGE
IGNITION**

\$28⁹⁵

KIT

- INSTANT STARTING
- BETTER GAS MILEAGE



Increases spark plug and point life by amplifying the energy of a conventional ignition system. Instant starting in any weather, winter or summer, more complete combustion, increased gas mileage, improved engine performance and elimination of many costly tune-ups. Extruded aluminum housing is dust and weatherproof. Installs quickly and easily without wiring changes. Immune to damage by improper installation.

No. 47A5561, Easy to build kit, Each **\$28.95**
No. 47A5562, Factory Wired, Each **\$39.95**

**JUDSON ELECTRONIC
MAGNETO**
\$39⁸⁸

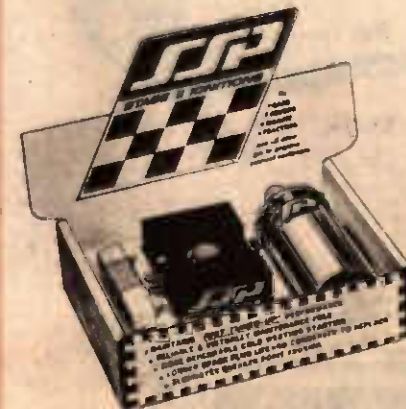
- Doubles plug and point life.
- Instant starting every time.
- Like a permanent tune-up.
- Higher top speeds.
- Provides positive ignition under any condition.
- Reduces fuel consumption two to six more miles per gallon.

3-YEAR WARRANTY

In the event of electrical failure just return to factory for prompt no-charge replacement

Obsoletes every conventional ignition system on the market. For car, truck, bus, boat, tractors and industrial engines. The Judson electronic magneto is a complete and integrated system that assures dependable and positive ignition on any engine under all conditions. The Judson ignition system gives increased output as engine speed increases, produces fire-power at the plug to match the ignition requirements of the engine. Because the transistor takes load off of the points, it makes the engine easier to start even in sub zero weather. Easy to install, transfer three wires from the present ignition coil to Judson Electronic Magneto and connect one additional wire to ground. Size 7 1/2 x 3 1/4", completely sealed, waterproof, corrosion-proof. Provides maximum of 30,000 volts with .5 microsecond rise time. For 6 or 12 volt systems negative ground.

No. 47A5510, Shpg. wt. 3 1/2 lbs. Net Each **\$39.88**



**SSP STAGE II
ELECTRONIC
IGNITION
SYSTEM**

\$59⁹⁵

The SSP Stage II Solid State electronic ignition system maintains that "just tuned-up" engine performance and efficiency for up to 50,000 miles and more. Increases gas mileage up to 20%. Delivers longer spark duration for more complete combustion. Eliminates 3 out of 4 engine tune ups. Prevents breaker point erosion. Ends spark plug fouling. Delivers fast cold weather starts. Its design simplicity makes it easy to install while assuring tens of thousands of miles of trouble-free performance. Shpg. wt. 4 lbs.

No. 47A5632, Each **\$59.95**

AUTOMOBILE TUNE-UP TESTERS



\$49⁹⁵

PROFESSIONAL AUTO TUNE-UP ANALYZER

- Large 5 1/2" dial has 10 easy-to-read color-accented scales.
- For 4, 6, or 8-cylinder engines with 6 or 12-volt electrical systems, positive or negative ground

A must for tune-ups and accurate electrical system adjustments. Big color-accented scales; high (0-6000) and low (0-1200) RPM, 0-45° and 0-60° dwell angle, 0-3.2 and 0-16 volts DC, 0-80 amps, 0-20K ohms resistance, plus high/low spark output and diode leakage scales. Built-in substitute condenser for distributor tests. Rotary function selector and zero-ohms control. "Off" position on function selector prevents accidental meter damage. Color-coded test leads and clips, external shunt bar with leads, penlight battery, detailed test instructions. 11 1/4" x 6 1/4" x 5".

No. 47A5642. Wt. 7 1/2 lbs. Each **\$49.95**

HAND-HELD AUTOMOTIVE TESTERS



Complete selection of precision test equipment for proper engine tune-ups. Each tester has large 3" color-accented dial. High impact case is shaped to fit the hand. Fold-down metal hanger for extra convenience. Complete with color-coded 54" test leads and detailed test instructions. For 4, 6, and 8-cylinder engines with any type electrical system.

DELUXE DWELL TACH AND IGNITION POINTS TESTER. Professional quality instrument for performance conscious car owners. Combines three testers in one. 5 scales: high (0-5000) and low (0-1000) RPM plus dwell angle and points resistance ranges. Rotary function selector switch. No internal batteries needed. No calibration required.

No. 47A5637. Each **\$17.95**

DWELL TACH. One tester does two jobs. Accurately measures cam dwell angle and low-level engine RPM. No batteries or calibration required.

No. 47A5638. Each **\$14.95**

IDLE TACH. Handy tune-up tester for proper idle, carburetor adjustments. Measures low-level RPM. No batteries necessary, no calibration required.

No. 47A5640. Each **\$11.95**

AMP-VOLT TESTER. Essential for testing, proper setting of auto electrical system. Measures 0-30 amps, 0-16 volts DC. With external shunt bar.

No. 47A5639. Each **\$11.95**

CIRCUIT TESTER. Checks all circuits, tests bulbs and fuses, measures resistance. 0-20K ohms range with high/low scale. With penlight battery.

No. 47A5641. Each **\$11.95**

4-PIECE TUNE-UP KIT

Do-it-yourself engine tune-ups with professional accuracy. Contains 4 important items for proper engine maintenance: compression gauge, remote starter switch, vacuum gauge, timing light. Complete with detailed instructions.

No. 47A5645. Each ... **\$10.95**



12 VOLT BATTERY CHARGER

Quick starts in any weather. Charges 12 volt batteries at 1 amp. Complete with insulated cables, sure grip clamps and fused AC cord. 4 1/2 x 2 1/2 x 2. Wt. 1 1/4 lbs.

No. 47A5552. Quality Import. Each **\$3.95**

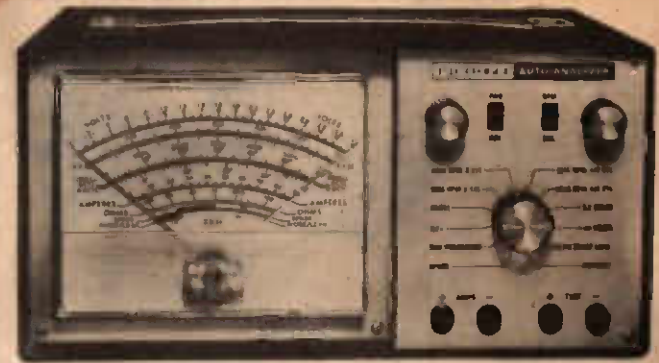


POPULAR 3-GAUGE SET

60-0-60 ammeter, 0-80 lb. oil gauge, and 100°-220° water temp. gauge. For 6 or 12 volt systems. Includes oil gauge installation kit, screws, trim inserts, instructions. Size: 7 1/2" x 3" x 2". Wt. 1 lb.

No. 47A5559. Competition Priced. **\$10.95**

Each



TUNES UP AND TROUBLESHOOTS ANY CAR OR BOAT WITH PROFESSIONAL PRECISION

EICO 888 SOLID STATE UNIVERSAL ENGINE ANALYZER

PERFORMS MORE THAN 30 SEPARATE TESTS

\$54⁹⁵
KIT

\$79⁹⁵
WIRED

Tunes any 6 or 12 volt 4, 6 or 8 cylinder engines, negative or positive ground. Make exact checks of your total ignition/electrical system including: storage battery; generator; alternator; voltage regulator; alternator diodes; starter; starter solenoid; distributor; points; condenser; ignition coil, spark plugs, dwell angle; carburetor; fuses; bulbs, switches, accessories; all electrical wiring. Simplified operation for fast easy, dependable results. Large 6 inch D'Arsonval wide-view 2-color meter with 10 large, clear, easy-to-read scales (volts, engine RPM, dwell angle, amperes, ohms, spark output, diode leakage).

Self-powered by 4 "D" cells (not incl.) Exclusive manual provides comprehensive instructions for tune-ups and trouble shooting jobs, covering over 40 different brands of American and foreign cars.

Sturdy metal cabinet with handle for easy portability. Size 5 3/4" H, 11 1/2" W, 5" D. Shpg. wt. 6 lbs.

No. 47A5506. simple-to-build Kit **\$54.95**

No. 47A5505. Completely Wired, Ready to Use **\$79.95**

NEW! A COMPLETE LOW COST

DWELL TACHOMETER TUNE-UP METER

NO CAR OWNER CAN AFFORD TO BE WITHOUT IT!

FOR ONLY

\$21⁹⁵

FACTORY WIRED



TROUBLE SHOOT 8 OR 6 CYLINDER ENGINES LIKE THE PROFESSIONALS

Drivers waste hundreds of dollars per year operating their engines way below peak efficiency. With this well designed direct reading instrument you can do your own engine tune-up easily. Operates on 6, 12 or 24 volt systems regular, transistor or magneto ignition on both 2 and 4 cycle engines. Large burn-out proof 3 1/2" double jeweled D'Arsonval meter is directly calibrated in degrees dwell angle and RPM, in hard bakelite case. Size: 6 1/4" x 3 3/4" x 2". Wt. 2 lbs.

No. 47A5528. Net Each **\$21.95**

COMPRESSION TESTER

\$3⁹⁵



Testing for compression is considered the first step in engine tune-up. Model 5 pin-points trouble in valves, pistons, rings, gaskets and cylinders. Reads up to 300 lbs. pressure on dial marked to show correct operating range for engine. 2 1/2" meter dial is easy to read. Has off-set stem to reach hard to service rear cylinders. Universal rubber cone fits into spark plug hole. 6 1/2" overall. Wt. 1 lb.

No. 47A5643. Each **\$3.95**

PRECISION TIMING LIGHT

\$2⁹⁵



Bright neon tube, shock-proof design. Rugged high-impact housing shaped to fit easily in tight places. Oil and gas resistant leads.

No. 47A5644. Each **\$2.95**

SIREN BURGLAR ALARM KIT FOR AUTOS

SIMPLE TO INSTALL—EASY DO-IT-YOURSELF KIT
PROFESSIONAL SIREN ALARM SYSTEM

COMPLETE
SYSTEM

\$29⁹⁵

GIVES FOOLPROOF PROTECTION 24 HOURS A DAY...
FOR CARS, WAGONS, TRAILERS, TRUCKS & VANS

Loud, piercing siren instantly blasts when door is opened, hood lifted, or trunk door raised. Siren can be wired even to go off when emergency brake is released! Stays on till reset by the switch of the pick-proof lock. Siren is made of highly polished die-cast metal and spun aluminum, Size 6 3/4" high, 5" dia. Comes with relay switch unit, six alarm switches, flat key switch, wire, fuse. Full instructions for do-it-yourself installation. For 12 V. DC only.

No. 47A5518. Shpg. wt. 6 lbs. Net Each..... **\$29.95**
No. 47A5567. Additional Pin Switch for Hood & Trunk. Each..... 99c
No. 47A5568. Additional Pin Switch for Doors. Each..... 99c

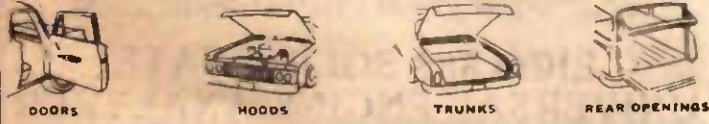
CURRENT SENSOR AUTO ALARM

Similar to alarm above, but has no switches or wire for doors and trunk. Uses the change in current in the electrical system to set off the alarm. Installs in 15 minutes. Complete kit includes all necessary parts for easy installation. For 12 volt system.

No. 47A5569. Each..... **\$34.95**



STOP THIEF!



ELECTRICAL SWITCH LOCK

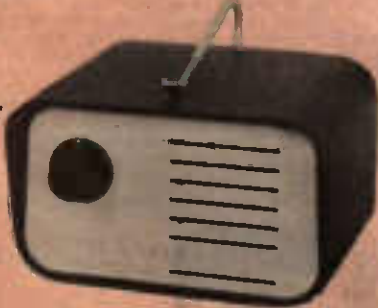
Provides maximum security. Ace round switch lock. Mounts in panels up to 1 1/8" thick. Chrome plated. Key removable in either position. With 2 keys. **\$4.95**
No. 47A5545. Each.....



DRIVER ALERT

MINIATURE ELECTRONIC DETECTOR WARNS OF RADAR TRAFFIC ZONES, PROMOTES SAFE DRIVING!

\$24⁹⁵
KIT



Gives advance warning of radar controlled speed and danger zones. Dual Band circuit monitors "S" and "X" microwave bands. Instantly alerts motorist to check speed before entering a radar timed speed zone. Transistorized, requires no wires or antennas. Size 3 5/8" x 2 1/4" x 3 1/4". Wt. 1.2 lbs. Use may be controlled by local or state law. Complete with batteries.
No. 47A5566. Easy to build kit. Each..... **\$24.95**
No. 47A5565. Factory wired. Each..... **\$34.95**

AUTOMATIC HEADLIGHT SHUTOFF

A thoughtful crime prevention device. Keeps your lights on for 30-seconds after you turn off the ignition. Provides reassuring illumination for safer trips to your front door. Lights go off, after you're safely inside. No more dead batteries. Shpg. wt. 1 lb.
No. 47A5627.
Each..... **\$15.95**

\$15⁹⁵



AUTOMATIC WINDSHIELD WIPER DELAY

Programmed wiper regulates the sweeps at pre-set intervals of 3 to 40 seconds. Particularly useful in light rain, snow, fog, and splatter from passing cars. An important accident prevention device for foul weather driving. When installed, only control knob is visible. Shpg. wt. 1 lb.
No. 47A5628
Each..... **\$15.95**

\$15⁹⁵



DUAL-BATTERY ISOLATOR FOR CAMPERS.

MOTOR HOMES, BOATS!

Conserves one battery, while the other one is in use. Insures ignition power after prolonged use of battery-connected appliances. Charges both batteries while you drive. Shp. wt. 2 lbs.
No. 47A5629
Each..... **\$15.95**

\$15⁹⁵



FLASHING HORN ALARM KIT

\$9⁹⁵
Complete

PULSATES CAR HORN FLASHES INSIDE CAR LIGHTS

The car sounds the alarm with its own howling horn—a big money-saving feature! Otherwise offers the same protection as the siren system above. When horn sounds, flashing interior car lights direct attention to car. Comes with everything you need for easy installation in any vehicle including two relay switch units, horn light flasher, six alarm activator switches, flat tumbler key lock and wire. Shpg. wt. 2 lbs. For 12V DC.
No. 47A5519. Each..... **\$9.95**

GENUINE FIAMM AIR HORNS

WITH 12 V. DC ELECTRO COMPRESSOR

ADD5 EXTRA SAFETY TO EVERY TYPE VEHICLE... AUTOS, TRUCKS, BUSES AND BOATS

Italian made, very highest quality. All brass chromed trumpets produce a powerful, yet pleasing tone. Overcomes surrounding noises and makes your presence known. Trumpets are 6 1/4" and 8 1/4" long overall. Easily mounted under hood. Comes with compressor, relay and instructions. Wt. 5 lbs.
No. 47A5532. Special Each..... **\$21.95**



AUTOMATIC POWER SUPPLY INVERTER

USE ANY AUTO TAPE DECK IN YOUR "BUG" OR TRUCK!

Raises the power from 6 volts to 12 volts or inverts 12 V+ to 12V-. at a flick of a switch. Ideal for drivers installing tape decks in any vehicle having a non-standard electrical system. Shuts off automatically when not in use. 3 amp rated. Shpg. wt. 2 lbs.

No. 47A5630. Each .. **\$29.95**



\$29⁹⁵

① CUSTOM SWITCH PANELS

Rugged metal panels with textured black finish 1/2" holes accept any combination of toggle switches and panel lights. Now you can have that sports car flair.

47A5571. 1 Hole Panel. 1 3/4" x 1 1/2". Ea..... **59c**
47A5572. 2 Hole Panel. 2 3/4" x 1 1/2". Ea..... 79c
47A5573. 4 Hole Panel. 4 3/4" x 1 1/2". Ea..... \$1.19
47A5574. 5 Hole Panel. 5 3/4" x 1 1/2". Ea..... \$1.29

② 47A5575. Custom Panel Light. red 12 volt. Each..... 99c

③ 47A5576. Custom Toggle Switch, bat-handle. Each..... 99c





\$ 4⁹⁵

INDOOR-OUTDOOR THERMOMETER

Read the outdoor temperature from inside your home plus indoor temperature too! Handsome styron case with metal scale and two heavy magnifying thermometer tubes for easy reading. 4" of capillary tubing. Size: 9" tall, 2" wide. Wt. 2 lbs. No. 47A2004.

Each \$4.95



\$9⁹⁵

INDOOR-OUTDOOR THERMOMETER AND HUMIDITY METER

Three precise instruments accurately report outdoor as well as indoor weather conditions. Richly wood grained frame, enhanced by beautiful, deep lustre of hand-rubbed finish. Metal scale and dial are executed with micrometer precision. 14" L. with 48" cable for outdoor temperature. Wt. 3 lbs. No. 47A2001.

Each \$9.95



\$12⁹⁵

WEATHER STATION TRIO

Fine quality American made Thermometer, Barometer, and Humidity Meter on new decorator walnut-grained panel in an ebony-grained and gold accented frame with a brass antiqued metal finish. Adjustable for vertical or horizontal hanging. 7" X 17". Wt. 4 lbs. No. 47A2005.

Each \$12.95



\$17⁹⁵

WEATHER STATION DECORATOR STYLED

Three fine instruments... Thermometer, Barometer and Humidity Meter constructed with the skill of experienced craftsmen. Instruments have the warm glow of polished brass. Richly wood grained panel is enhanced by hand-rubbed finish. Mount vertically or horizontally. 20" long. Wt. 6 lbs. No. 47A2000.

Each \$17.95



\$1⁹⁵

NEW IMPROVED ILLUMINATED 5X MAGNIFIER

Magnifies work 5 times giving clear, fully illuminated view. Field of vision 2" at 1 1/8" working distance with mask (gauge) off. Mask snaps-on giving 1" field, graduated in fractions and metric. Ideal for inspection work, miniature work... for hobbyists and countless other uses! Uses 2 size "C" batteries. 7" long. Quality import. Less batteries.

No. 37A5504. Wt. 1 lb. Ea. \$1.95
21A2 "C" Cell (requires 2) Ea. .20c



\$1⁹⁸

B-A's ROLLAMATIC MEMO PAD

Best home and office memo pad ever devised! Molded white plastic frame holds 3 3/4" wide x 75 ft. long memo roll. Provides flat, smooth writing surface and a handy, ever-present ball point pen for jotting down important messages. Ball pen uses standard replaceable writing element. Has letter opener edge and inch/millimeter markings. Wt. 1 lb.

No. 47A7507. With 3-In-One Pen, Letter Opener/Ruler and 75 ft. Paper Roll.

Each \$1.98
No. 47A7508. Rollamatic Paper Refills. 3 For .99c



\$8⁵⁰

MEASURE MILES YOU WALK WITH THIS PEDOMETER

Golfers, Joggers, Hikers... Here's a precision German made instrument that records every step you take and registers the accumulated distance in miles. Small pocket-watch size case is suspended from the belt or side pocket near the hip. Adjustable for steps of 1 to 3 feet length. Dial is calibrated in 1/4 mile divisions up to 25 miles. Can be reset to zero anytime. Bright nickel plated brass case 1 1/2" dia. Wt. 4 ozs. No. 47A3500.

Each \$8.50



\$18⁹⁵

SEVEN JEWEL 1/10 SECOND STOP WATCH

Best stopwatch buy we've seen yet! Has hundreds of uses. Provides measurements to 1/10 second accuracy. Small hand registers up to 15 minutes. Push-button reset. Crown stop/start. Provides years of service with 7 jewel Swiss movement and unbreakable mainspring.

No. 47A315. Each \$18.95



\$6⁹⁵

AIRGUIDE "SERRING" ILLUMINATED AUTO COMPASS

Precision compass movement. Push-button self-contained lighting. Powerful Alnico V. directional magnets with aircraft type cunife compensators. Versatile quick-sticking self-adhesive mount. Height 3 3/8", width 2 1/2". Wt. 8 oz. Mfg. List \$10.00.

No. 47A5530. Model 1601. Each \$6.95



\$9⁵⁰

AIRGUIDE "SERRING" VERSATILE ALTIMETER

Fast accurate readings of height above sea level to 15,000 feet. Versatile quick sticking self-adhesive bracket, remove bracket for hiking. Gray plastic case, black dial with white detail. Case diameter 3 3/8". Wt. 12 oz. Mfg. list \$13.50.

No. 47A5531. Model 1608. Each \$9.50



88^c

SUCTION-CUP MINIATURE COMPASS

Small, compact compass gives accurate direction readings. Easily mounted with attached suction cup on any flat, smooth surface. Sealed liquid movement. Only 1 1/2 inches long, 1 inch diameter.

No. 47A5634. Each 88^c



99^c

UNIVERSAL CIRCULAR THERMOMETER

Mounts with pressure-sensitive stick-on plate on any flat surface. Round, black-face design to match auto instruments. Also ideal for home, boat, camper. Wafer-thin metal case, chrome trim.

No. 47A5635. Each 99^c

**B-A INTRODUCES THE LATEST AND GREATEST
IN HI-FI COMPONENT KITS!**



**EICO cortina2
AM-FM STEREO TUNER KIT**

**\$69⁹⁵
KIT**

- Preassembled Front end, Multiplex, IF's.
- Comes with vinyl clad metal cabinet.
- Advanced FET wideband circuitry.

Just for you, the "do-it-yourself". BA offers the finest AM/FM/FM stereo tuner kit available at low money-saving prices. Yet has features like noise-free advanced design FET circuitry for non-drift, high-sensitivity, optimum stability and super selectivity. Interference is reduced to a minimum before it reaches the audio section of your receiver. The multiplex section displays 33dB separation. Has stereo indicator light, blackout dial, tuning meter, stereo/mono switch, AFC to lock-in stations, and power switch. Specifi-

cations: 3.5 uV usable FM sensitivity (30 dB quieting); harmonic distortion 1.75%; capture ratio 4%; S/N ratio 60 dB; full limiting 100 uV; AM suppression 40 dB; MPX separation 33 dB (1 KHz); AM sensitivity 200 uV/meter; S/N 45 dB; harm. dis. 2%. Size (approx.): 4" H. x 16" W. x 9" D. Shpg. wt. 15 lbs.
No. 33A 46. Kit Model 3300.K Each **\$69.95**
No. 33A 45. Factory Wired. Each **\$109.95**

EICO cortina2 22 WATT (RMS) AM/FM STEREO RECEIVER

**\$109⁹⁵
KIT**



- All Silicon Circuitry for Temperature Stability
- Reliable Transformer Power Supply
- Advanced FET Circuitry

Identical tuner specs as model 3300 listed above plus 22 watt (RMS) Pre-amp section. Handles all program sources with full range, full fidelity stereo sound. Audio Section: Freq. response 20 Hz.-20 KHz Harmonic Distortion: .75% (1 KHz at 8 watts), hum and noise .70 db. Inputs: Mag. Phono, Tape, Aux., AC Rept., Outputs: 4-16 ohm speakers, headphone jack mounted on front panel. Controls include mode selector, bass, treble, balance, volume. Push-button control for tape monitor, mono-stereo mode, AFC, power on/off. Size: 4" x 1 6 1/2" x 9-1/8". Shpg. wt. 10 lbs.
No. 33A750. Kit Model 3780K. Each **\$109.95**
No. 33A751. Factory Wired. Each **\$169.95**

**10 TRANSISTOR, 8-WATT
STEREO AMPLIFIER**

**ULTRA COMPACT SIZE... FITS ANYWHERE!
ONLY 8" WIDE, 4 1/4" DEEP, 2 1/4" HIGH**



**FREQUENCY
RESPONSE
70-20,000
Hz**

**EXPENSIVE POLISHED
ALUMINUM KNOBS**

- Completely Solid-State—No Tubes To Replace
- Cool Operation. Build It In Anywhere.
- Plays Instantly—No Filaments To Warm-Up
- Separate Bass And Treble Controls
- Separate Volume Control For Each Channel

\$29⁹⁵

Now, you can have the superiority of solid state circuitry at less than 1/2 the price of comparable tube models. The buy of a lifetime! B-A's sweet deal with a factory, producing highest quality imported amplifiers, makes possible this money-saving offer. Identical to amplifiers used in stereo high fidelity phonographs... its specifications and performance are the finest we have ever seen at this low, low price.

Extremely versatile... permitting use in stereo high fidelity system or may be used monaurally for a musical instrument amplifier, PA, phono, etc. Two inputs for tuner, ceramic or crystal phono-musical instrument pick-ups, etc. Completely enclosed ideally suited for bookshelf use or may be custom installed anywhere. Ultra-compact size only 8" W. x 2-1/16" H. x 4-3/8" D. Has brushed aluminum panel and knobs. Front switch controls auxiliary, phono, power on-off. Has auxiliary 115 V. outlet on rear. Operates on 115 V. 60 Hz. Shpg. wt. 4 lbs.
No. 33A748. Model AM-51A. Each **\$29.95**

**LATEST DELUXE
4-SPEED VM
RECORD CHANGER**

**FEATURES TUBULAR
TONE ARM WITH
DIAMOND NEEDLE**



\$24⁹⁵

**PLAYS ALL RECORDS
MONAURAL AND STEREO**

Same unit used in many top brand name phonographs! Completely automatic, plays all speeds, all sizes records. Intermixes 10 and 12" records of same speed. Automatically shuts-off after last record. Positive record protection assured by flat air-cushion drop of records to rubber matted turntable. Lightweight jam-proof tubular tone arm complete with stereo turnover cartridge with long-life diamond stereo needle and sapphire 78 RPM needle. Dimensions: 13 1/4" W. x 11-7/8" D. x 5-3/4" above and 2-5/8" below motor board. For 110-120 V. 60 Hz AC. Fully guaranteed. With AC cord and stereo connecting cables, less base.
No. 33A629. Shpg. wt. 11 lbs.
Net Each **\$24.95**
33A503. 45 RPM Spindle. Each **\$1.95**
33A504. Precut Mounting Board. Ea. **\$2.00**
33A505. Precut Mounting Base. Ea. **\$4.40**

MIDLAND STEREO SPECIALS!



**COMPLETE
MIDLAND
STEREO
SYSTEM
ON A
ROLL-ABOUT
CART**

\$179⁹⁵

FEATURES:

- AM-FM Receiver W/8 Track Tape Player
- 4 Speed Changer
- 2 way speaker systems
- Stereo Headset
- Rollabout Cart

A complete system at a price everyone can afford. Receiver has inputs for ceramic phono/AUX, AC outlet and a full array of modern slide audio controls. BSR 4 speed mini-changer complete with dust cover and stylus pressure adjustment. 8-track player features continuous entertainment from pre-recorded tapes. Each speaker system contains a 8" woofer and 2" whizzer in a fiber-

glass lined acoustic chamber. Deluxe rollabout stand has metal rack for tape and record storage. System size 16" x 18" x 50". Shpg. wt. 54 lbs.

No. 33A749.
Model 19-806. Each \$179.95

ENJOY YOUR 8 TRACK TAPES AT HOME!!!



**HIGH FIDELITY
SPEAKERS
FEATURE 8"
WOOFER AND 2"
WHIZZER WITH
NEW HORN
DISPERSION
GRILLES**

MIDLAND DELUXE 8 TRACK STEREO TAPE CARTRIDGE SYSTEM

\$89⁹⁵

Just slip in a cartridge and enjoy continuous music. Cartridge repeats as often as desired. Automatically switches program at end of tapes until each of the four stereo programs have played; unit then returns to the first program. With the push-button selector you can easily change programs. Pilot light indicates track being played. Both speaker cabinets as well as the player are fine furniture-styled walnut-finished wood. The balanced capstan drive gives constant

tape speed and the matched dynamic heavy duty speakers allow true stereo reproduction. Features slide lever volume, balance and tone controls. Size: main unit - 14 X 3-7/8 X 8"; speaker cabinets - 15 X 10 X 6" (each). Shpg. wt. 22 lbs.

No. 31A7598, Model 12-605. Each \$89.95

POPULAR B-A SPECIALTIES

NEW TREASURE HUNTER

- FIND BURIED COINS AND METAL.
- LOCATES PIPES INSIDE BUILDINGS.
- FIND UNDERGROUND PIPES.



NOW MORE SENSITIVE THAN EVER!

\$30⁹⁵ KIT

Heterodyne type metal detector. Detects coins buried a few inches in the ground and larger objects up to two feet deep. Nine inch pancake search head accommodates both large and small coins. Speaker and earphone indicators included. Five transistor circuit.

Low drift components for stability. Standard 9 volt transistor radio battery included. Comfortable hand grip. Comprehensive instructions contain step-by-step procedures which enable even the beginner to successfully assemble. Wt. 10 lbs.
 No. 20A1272. TH-30 Kit. Each **\$30.95**
 No. 20A1311. TH30 Wired—Ready to Use **\$37.50**

B-A HOBBYIST'S ROCK TUMBLER SET

SMOOTHES AND POLISHES: Rocks, Glass & Stones, Coins, Shell Casings, Fishing Spoons & Many Other Items

DOES THE WORK OF HIGH COST MACHINES



ONLY **\$22⁹⁵**

B-A has sold thousands of rock tumblers to collectors all over the U.S.A. Now, we have the finest unit at the lowest possible cost! Powered by an industrial quality continuous duty motor, which readily handles 6 lb. capacity. Tumbler barrels are easy to replace paint cans. Unit accommodates 2 quart or gallon size paint can. Heavy duty nylon bearings have lifetime guarantee, all other parts, except belts and cans, have 1 Year Guarantee. Requires no skill and minimum of attention. Uses 4 oz. grit for each can.

- No. 47A8502. Shoo. wt. 9 lbs. Net Each **\$22.95**
- BEGINNERS CRIT PACK. Contains 1 can liner, 1—4 oz. coarse grit, 1—4 oz. fine grit, 1—4 oz. prepolish, 1—2 oz. polish. **\$2.59**
- No. 47A8503. Net Each **\$2.00**
- No. 47A8504. Tumbling Manual. Gives all necessary information on polishing all types of material. Each **\$2.00**
- No. 47A8505. 1 Lb. Crushed Polishing Rock. Each **\$1.29**
- No. 47A8506. 1 Lb. Oregon Beach Agate and Jasper, Each **\$2.59**
- No. 47A8507. 1 Lb. Crushed Gem Mix. Each **\$3.49**
- No. 47A8508. 15 Oz. Brass Polishing Media. Enough for 1 quart can. This media is re-useable indefinitely. Each **\$1.95**
- No. 47A8509. 2 Oz. Brass Polishing Reactivating Cream. To renew life of brass polishing media. Each **.98c**

ACCESSORIES & EXTRA ABRASIVES FOR ABOVE

- No. 47A8510. 1 Lb. Coarse Grit..... \$1.75
- No. 47A8511. 1 Lb. Fine Grit..... \$1.75
- No. 47A8512. 1 Lb. Prepolish Grit..... \$1.75
- No. 47A8513. 1/2 Lb. Polish Grit..... \$1.75
- No. 47A8514. Extra Quart Cans..... 49c
- No. 47A8515. Extra Belts..... 69c
- No. 47A8516. Rubber Can Liners, Pr \$1.25



MIDLAND "THE SCOUT" WALKIE-TALKIES

- NO AGE LIMIT
- NO LICENSE REQUIRED

\$9⁹⁵ PAIR

Economical, all-purpose walkie-talkies ideal for hours of fun on hikes, camping, at the beach, or in neighborhood games. Advanced 3-transistor solid state circuitry. Sensitive super-regenerative receiver. Channel 14 (27.125 MHz) transmit crystal installed.

Pocket-size, high impact red and white polystyrene cabinet with perforated black speaker grille. 9-section 36" telescoping antenna. On-Off switch, push-to-talk button, volume control, and 2" PM dynamic speaker. Each is complete with 9 volt battery, carrying strap, and channel 14 crystal. Shpg. wt lbs. **\$9.95**
 No. 10A98. Per Pair.....

MIDLAND INTERNATIONAL

MODEL 13-046

MORSE CODE WALKIE-TALKIES

3-WAY FUN! NO LICENSE REQUIRED

1. Solid State Transceiver Press-to-talk switch for voice messages.
2. Morse Code Transmitter: Transmits International Morse Code.
3. Code Practice Key: Turn the unit on and use the code key to practice Code.

PAIR \$14⁹⁵



Features include: 4 transistor super regenerative receiver with volume control, crystal controlled transmitter with channel 14 (27.1 MHz.) crystal, 42 inch 9-section telescoping antenna and standard 9 V. transistor battery. In addition to regular voice communication the unit can transmit a code signal by "keying" the code button. Has Morse Code alphabet printed on front of unit.

In high impact polystyrene cabinet with carrying strap. Size 5 1/2" high, 2 3/4" wide, 1 3/4" deep. No license required. Shpg. wt. 2 lbs.

No. 10A28 **\$14.95**
 Per Pair.....

MIDLAND INTERNATIONAL CORPORATION

AIR PUMP AND EXHAUSTER

TAKES THE WORK OUT OF INFLATING AND DEFLATING AIR MATTRESSES, TOYS, SWIMMING POOLS, ETC.

12 VOLT DC ELECTRIC

\$6⁹⁵



INFLATING: No need for huffing and puffing—this handy air pump inflates an air mattress effortlessly in seconds.
 DEFLATING: No more folding, pushing, or squeezing to get out the air—this exhauster does the job thoroughly.

Durably constructed of rugged Teflon and polystyrene. Attractively display boxed complete with two nozzle attachments, flexible plastic extension, 10-ft. cord, built-in on/off switch, lighter plug-in.

Specification: Air pressure, 2.7 lbs./sq. inch; Air volume, 50 gallons/minute; Voltage requirements 12 volts DC. Dimensions: 4 1/4" high, 2" dia. Wt. 1 1/4 lbs.

No. 37A9100. Each..... **\$6.95**

**AM HEADSET
RADIO
MOST EXCITING
RADIO IDEA
IN YEARS!**

\$17⁸⁸



Great for sporting events, the beach, the dorm or at home... ideal for the hard of hearing. Comfortable, lightweight, flexible headband adjusts to any head size. Nothing to plug in. Everything is in the comfortably padded earphone—two 2½" dynamic speakers for a full rich sound, volume and tuning knobs and 9V. battery (included). Shpg. wt. 2 lbs.
No. 36A2040. Special Ea. **\$17.88**

RCA

**ELECTRIC
SCISSORS**

\$3⁹⁹

• Cut Material Fast and Easy.
• Safe—Fast—Cordless.
Runs on one "C" cell... no cumbersome cords. Right or left handed. Comes complete with an extra set of precision cutting blades.
No. 37A5574. **\$3.99**
Less Battery. Each.....
No. 21A39. "C" Battery. Each 23c



**COMPACT
AC-DC
RADIO KIT**

\$14⁹⁵

Powerful 5-Tube
Superhet. Covers
530 KHz to 1600 KHz



A compact, high quality table radio. Easily assembled with schematic, pictorial and step-by-step instructions. Extremely sensitive and selective. Complete with all parts: powerful Alnico V PM speaker, built-in Hi-Q ferrite loop antenna coil, IF transformers, shockproof chassis, all tubes and beautiful ivory cabinet. 7x4½x3¾". For 117 V. AC-DC.
No. 47A8525. Shpg. wt. 4 lbs. Complete Kit..... **\$14.95**

**FOR ACTIVE PEOPLE...
PEOPLE ON THE GO!**

**VERSATILE
TWO-STATION
INTERCOM**

\$24⁹⁵



Hand-held master station. Open voice substation allows hands-free remote reply. Fits practically all communication needs between two locations. And ideal for mobile applications such as cab to camper, bridge to cabin (on boats), etc. excellent for home door answering systems. 50 ft. of cable included. Add 2-conductor cable for more distance if needed. Requires 2 "C" batteries.
No. 32A468.
Each..... **\$24.95**

No. 21A2. Battery (requires 2). Each..... **20c**

\$9⁹⁵ **EICOCRAFT
"SOUND 4"
ADAPTOR KIT**

Exciting 4-dimensional sound experience at low cost. Hear two additional channels through two identical speakers.

You use only your present amplifier or receiver—no need to buy any additional amplifier or electronics.

No. 20A1306. EC4700. Easy to build kit. **\$9.95**
Each

No. 20A1309. 4700. Wired ready to use..... **\$19.95**



**AUTOMOBILE BATTERY
ADAPTOR CORDS**

Use your car or boat battery to power your tape recorder, dictating machine, portable radio or CB set! Plugs in cigarette lighter receptacle. Saves batteries—gives you full power, always! Transistor regulated circuit assures constant voltage. Max. current: 300mA. Comes with special adapter with 3 plugs to fit practically any set and has polarity reversing feature.

No. 38A8021. 12 volt to 6 volt.
No. 38A8022. 12 volt to 7½ volt.
No. 38A8023. 12 volt to 9 volt.
YOUR CHOICE EACH **\$5.95**



\$5⁹⁵

CAR STEREO NOISE SUPPRESSOR KIT

Effectively kills the interference or noise caused by ignition system or alternator in some cars. Kit contains choke and capacitor and easy to follow instructions for hook-up.

No. 38A8020. Each **\$1.99**



PICK-PROOF AUTO DOORKNOBS

Opens easily from inside, can't be opened from outside. Sure grip ends allow adults to open easily. Solid brass with chrome finish.

No. 47A5646. Fits all GM autos 1961 up, Ford, Mercury, T-Bird 1965 up.
No. 47A5647. Fits all GM autos thru 1958, Ford 1949-1964, Chrysler, Comet, Fairlane, Falcon and Mustangs 1965-1966.

YOUR CHOICE EACH **\$1.49**



TOP VALUE! PHILMORE

GERMANIUM SELECTIVE CRYSTAL RADIO KIT

WITH
1000 OHM EARSET

Easy to build. Features new midjet tuning condenser, Germanium fixed crystal diode for better sensitivity and selectivity than regular type crystal sets. Parts all mount on a 3/8" thick plywood baseboard included. Coil comes already wound. Simplified pictorial construction diagram which fits baseboard as a template showing location of parts and connections.
Wt. 1 lb.

47A8521. With Headset..... **\$4.65**



\$4.65

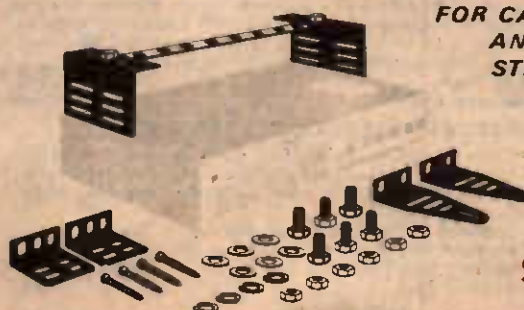
**PHILMORE OUTDOOR AERIAL KIT
GREATLY IMPROVES SIGNAL STRENGTH
OF ANY RADIO**

Can be installed on roof, between trees, in attic or garage, etc. Consists of 50' coil stranded copper aerial wire, 25' rubber covered lead-in wire, 1 ground clamp, 1 lead-in strip, 2 porcelain insulators, 2 nail-it knobs. Complete with instructions. Shpg. wt. 1 lb.
No. 9A3102 Net Each..... **\$1.99**



UNIVERSAL MOUNTING KIT

**FOR CAR RADIOS
AND CAR
STEREOS**



\$2⁹⁹

Provides a handy, convenient way of mounting auto stereo and auto radios. Kit contains 6 brackets, 6 bolts, nuts and washers, 1 bracket strap, 4 lock washers and 4 sheet metal screws.

No. 38A4007. Each **\$2.99**

Now everybody can enjoy building electronic kits



EICOCRAFT KITS

Simple step-by-step instruction. Pre-drilled copper plated etched printed circuit boards. Finest quality parts. You can build an Eico-craft kit in about 1 1/2 to 2 hours.



PERSONAL RADIO

Battery operated transistorized radio. Receives standard broadcast band. Earphone supplied. Requires 6 V. battery.

No. 20A1131. EC-1400 FM Radio 88-108 MHz. Each	\$9.95
No. 20A1132. EC-1500 AM Radio 550-1600 KHz. Each	\$8.95
No. 21B89. 6 Volt Battery. Each	\$1.13

ELECTRONIC VOX

Transistorized audio-activated relay amplifier, and sensitive electromagnetic relay. It provides a variable time delay (adjustable) and audio control of remotely operated devices. Makes an ideal voice control for tape recorder, TV or radio set (as a commercial killer), etc. Requires 6 V. battery.

No. 20A1130. EC-1300. Each	\$8.95
No. 21B89. 6 Volt Battery	\$1.13

HAM/CB VOX

Solid state Ham/CB voice operated switch (VOX) with variable time delay and Anti-Vox input circuitry. This circuit may be used with a CB or ham transmitter or transceiver which will actuate the transmitter when speaking into a microphone and return to receive operation when you stop speaking. Requires 6 volt battery.

No. 20A1153. EC-1700. Each	\$8.95
No. 21B89. 6 Volt Battery	\$1.13

"MAGIC SWITCH"

Sensitive 2-transistor amplifier and latching flip-flop relay control circuit. When the touch plate connected to the amplifier is touched, the relay closes (or opens), thus providing a signal of the event. Turn on or off any appliance with this "magic" or hidden switch.

No. 20A1256. EC-2100. Requires 9 V. Battery. Each	\$9.95
No. 21B141. 9 Volt Battery. Each	\$4.00

SIREN

Powerful 3-transistor battery-operated alarm. Excellent for all attention-getting and signaling purposes, such as alarms for burglary, fire, automobile, bicycle, boat, personal attack, etc., sound effects for model railroads, slot car racers, tape recording, etc. Requires 6 volt battery, speaker and switch.

No. 20A1134. EC-100. Each	\$4.95
No. 21B89. 6 Volt Battery. Each	\$1.13

WIRELESS MIKE

Battery-operated, pocket size, Transistorized circuit comprises both audio modulator and RF oscillator. Broadcast through any home or auto radio while walking about freely, unencumbered by any interconnecting wires. With case. Requires 9 volt battery.

No. 20A1128. EC-1100. For use with FM Radios. Choice	\$9.95
No. 20A1129. EC-1200. For use with AM Radios. Each	
No. 21B141. 9 Volt Battery. Each	\$4.00

TREASURE FINDER

Battery-operated beat-frequency metal locator can be used to locate both ferrous metals (iron, steel, etc) and non-ferrous metals (gold, silver, copper, etc). Consists of 2 RF oscillators and a search loop. This distinctive audio signal pitch goes up when the EC-1900 locates buried ferrous metals, and the pitch goes down when it locates non-ferrous metal.

No. 20A1155. EC-1900. Requires 9 V. Battery. Each	\$9.95
No. 21B141. 9 Volt Battery. Each	\$4.00

AUDIO AMPLIFIER

3-transistor battery-operated 2-watt audio amplifier. Accepts a wide variety of input sources, such as microphone, phono cartridge, tape recorder, radio, etc. It can handle speakers for intercom, paging, public address and long distance hoisting. Requires 6 volt battery, speaker and 2000 ohm volume control.

No. 20A1138. EC-300. Each	\$5.95
No. 21B89. 6 Volt Battery. Each	\$1.13

INTERCOM

Rugged 2-transistor battery-operated master intercom station. Becomes multiple channel 2-way (talk-back) inter-communication system with addition of speakers as remote stations. Can be used for baby sitting, room-to-room and front-door communications. Requires 6 volt battery. 4PDT switch and speakers.

No. 20A1137. EC-200. Each	\$5.95
No. 21B89. 6 Volt Battery. Each	\$1.13

VHF CONVERTERS FOR POLICE, FIRE AND AIRCRAFT

Tune the exciting VHF bands used by Police, Fire, Civil Defense, Emergency Services and Aircraft. Place the converter near your AM radio, no interconnecting wires necessary. Changes VHF band to lower frequencies that your radio can handle. Requires 9 volt battery.

20A1252. EC-2700. Lo-Band 30-50 MHz Police, etc.	Your Choice
20A1253. EC-2900. Hi-Band 152-74 MHz Police, Fire, etc.	Your Choice
20A1254. EC-2800. Aircraft 108-136 MHz.	Each \$7.95
No. 21B141. 9 Volt Battery. Each	\$4.00

METRONOME

Precision 2-transistor battery-operated electronic metronome. Incorporates 2 transistor "relaxation Oscillator" circuit which produces accurate adjustable impulses through a loudspeaker - from approximately 10 to 250 impulses per minute. Requires 6 volt battery and speaker.

No. 20A1139. EC-400. Each	\$3.95
No. 21B89. 6 Volt Battery. Each	\$1.13

No Technical Knowledge or Experience Necessary

BOWMAN SOLID STATE MOD-U-KITS

EASY TO FOLLOW INSTRUCTIONS AND DIAGRAMS
EACH KIT SUPPLIED WITH ENCLOSURE



AIRCRAFT RECEIVER KIT

Picks up strong signals in the 100 to 200 MHz aircraft frequency range. 3 stage super high gain amplifier, telescoping antenna. Earphone included. Requires 9 V. battery.

No. 20A1232. AIR-3. Each	\$5.95
No. 21B141. 9 V. Battery. Each	\$4.00



SUPER-SLEUTH AUDIO SNOOPER KIT

Listening device with specially designed circuit with three super-sensitive transistors. Will amplify up to 100,000 times. Earphone and crystal pickup is provided. Requires AAA battery.

No. 20A1231. AS-3. Each	\$4.95
No. 21C60. AAA Battery. Each	\$1.75



PROXIMITY SWITCH KIT

Uses capacity bridge network, silicon controlled rectifier, and transistor. Switches on when someone comes near unit. stays on until AC power is removed. Use to trigger lights, alarms, etc. or devices using universal motors up to 5 amps.

No. 20A1234. PRS-100. Each	\$6.95
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MOBILE POWER AMPLIFIER KIT

Three transistor circuit will produce up to 5 watts power. Has volume and tone control. Cigarette lighter plug for use in auto or use other 12 VDC source. Requires mike and speaker.

No. 20A1233. MPA-5. Each	\$8.95
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AM Receiver Kit. Two transistor audio reflex circuit. Tunes 550 to 1600 KHz AM broadcast band. Earphone supplied. Easy to build. Requires 9 V. battery.

20A1262. Each	\$4.95
21B141. 9 V. Battery. Each	\$4.00



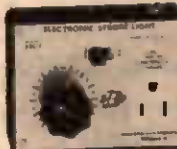
Electronic Stethoscope Kit. Uses special 3 transistor high gain amplifier. Complete with sensitivity control. Stethoscope shuts out background noises.

20A1266. Each	\$9.95
21B141. 9 V. Battery. Each	\$4.00



Photo Cell Music Maker. Uses audio oscillator circuit. Waving your hand over photo cell produces varying audio tones. Great for science fairs and school projects. Uses 9 V. Battery.

20A1264. Each	\$5.95
21B141. 9 V. Battery. Each	\$4.00



Electronic Strobe Kit Converts Incandescent lamp (up to 100 W.) to a pulsing strobe. Variable control to control strobe rate.

20A1265. Each	\$9.95
21B141. 9 V. Battery. Each	\$4.00



Electronic Organ Kit. Keys pressed individually or together will produce different tones. Mounts in plastic case. Supplied with speaker.

20A1260. Each	\$6.95
21B141. 9 V. Battery	\$4.00



5 Watt Amplifier Kit. Use with tuner, phono, guitar, microphone, hi-power intercom, etc. With volume control. Operates any 3 to 16 ohm speaker. Uses 6 V. Battery

20A1237. Each	\$5.95
21B89. Battery. Each	\$1.13

INTRUDER ALARM KIT

Sounds turn on lights or alarm. Keyed by sounds picked up by an external crystal microphone (not supplied). So sensitive that whispers or any sounds will cause the light or alarm to go on. Operates on 117 VAC. Wt. 1 1/2 lbs.

No. 20A1305. Kit. Each	\$19.95
No. 29A610. Mike for above. Each	\$2.99



ELECTRONIC STROBE KIT FOR INCANDESCENT LAMPS

Handles up to 600 watts of incandescent lamps. Easy to assemble. AC receptacle on back. Variable speed control to adjust strobe rate. Dual SCR circuit. Operates on 117 VAC.

No. 20A1279. Each	\$12.95
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\$4.95 EXCITING NEW RECEIVER
CONVERTER MODULES
SEPARATE CONVERTER MODULES
TO RECEIVE...



- INTERNATIONAL SHORTWAVE
- VHF POLICE AND FIRE
- VHF AIRCRAFT
- FM-VHF POLICE & WEATHER

Efficient means of receiving Shortwave and VHF broadcasts. For use with your standard broadcast band AM radio. No actual connection to radio is required. Small radiation loop connected to module couples converter signal for reception on a quiet spot on the AM dial. Tuning is by small knob on module. Requires standard 9 V transistor battery and 25' or more antenna for SW, or a short wire for VHF (20A1280 also requires 5,000 ohm Potentiometer). Very easy-to-follow instructions supplied. Wt. each 4 ozs.

- International Shortwave Converter Module
No. 20A1157. Tunes 25, 31, 41 Meter Bands (7-12 MHz)
VHF Aircraft Converter Module
No. 20A1158. Tunes 118-128 MHz
VHF Police And Fire Converter Module
No. 20A1159. Tunes 30-50 MHz
FM-VHF Police and Weather Converter.
No. 20A1280. Tunes 150-164 MHz
YOUR CHOICE.

EACH \$4.95
No. 21B141. 9 Volt Battery. Each 54¢



**ELECTRONIC LATCHING
RELAY MODULES**

YOUR CHOICE... **\$3.49**

Tamper-proof "Lock-On" switch. Ideal for burglar and emergency alarms. Contains complete solid state electronic circuitry, ready for immediate use as an efficient latching relay for controlled switching of a 6 volt DC power source into any secondary circuit drawing up to 1/2 ampere. Requires 6 volt battery and switches.

- No. 20A1229. For Momentary Make Contact To Operate Choice \$3.49
No. 20A1230. For Momentary Break Contact To Operate Each.....
No. 21B89. 6 Volt Battery. Each \$1.13

\$6.95

**AUTOMOBILE
BURGLAR
ALARM MODULE**

Triggers and "locks on" car's own horn as an alarm. Opening a door, attempting to start car or switching on lights will trigger alarm. Uses current sensor principle to trigger alarm. Contains module, lock switch and wire. \$6.95
No. 20A1303. Each



**3 CHANNEL PSYCHEDELIC LIGHT CONTROL CENTER
SYNCHRONIZE LIGHT
WITH MUSIC!**

Use with spotlights or any group of incandescent lights up to 500 watts per channel or a total of 1500 watts. Great for musical groups, window displays or anywhere a attention getting display is wanted. Operates from speaker output of amplifier, 3 separate sensitivity controls. Each control has an indicator light for adjusting light operation. With aluminum case, all parts and complete instructions. Operates on 115 VAC.
No. 20A1261. Complete Kit Ea \$12.95



FREQUENCY CONTROLLED 3 CHANNEL LIGHT CONTROL CENTER. Lights respond with different sound frequencies and volume. No channel interaction. Sound spectrum 60-1,000 Hz, 1,000-8,000 Hz, 8,000-15,000 Hz. Other features same as above unit. Wt. 1 1/2 lb.
No. 20A1275. Complete Kit, Each \$24.95
No. 20A1276. Factory Wired, Each \$34.95

Wireless Frequency Controlled 3 Channel Light Control Center. Use crystal mike (order below) to operate instead of speaker output. Otherwise same as above.
No. 20A1304. Complete Kit. Each \$29.95
No. 29A610. Mike for above. Each \$2.39

PSYCHEDELIC KITS CONVERT SOUND TO LIGHT

With Enclosure and Easy To Follow Instructions
Converts sound to changes of colored lights. Lights blink in unison with the beat of the music. Each kit has 4 colored lights for a fascinating lighting effect. Uses silicon controlled rectifiers to trigger light action. Easy to build. Responds to voice and music. Built-in sensitivity control. Model PSA-1. Connects to speaker of hi-fi, radio or phone. For 115 VAC operation.
No. 20A1235. Each \$5.95
No. 20A1236. Model PSW-1. Sounds are picked up by mike (supplied). For 115 VAC operation. Each \$9.95

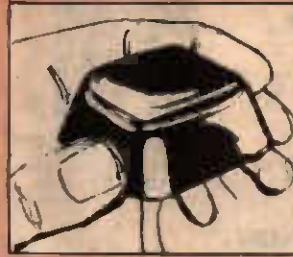


EICO "ELECTROPLATER"

A Solid State adjustable rate, low-voltage, electroplating power supply. Chemicals are included for copper electroplating together with step-by-step information for silver and gold plating. Custom vinyl clad metal cabinet. Size: 3" x 4 1/2" x 4 1/2". Power Source 117 VAC. Wt. 1/2 lb.
No. 20A1277. \$12.95
Model EC-4000. Each



SOLID STATE MODULES



COMPLETELY ENCAPSULATED
AS SMALL AS AN ICE CUBE

FULL
INSTRUCTIONS
& DIAGRAMS
INCLUDED FOR
BUILDING THE
USEFUL DEVICES
LISTED BELOW

YOUR CHOICE
\$3.49

Each module is a small ready to use molded capsule containing a completely wired circuit of transistors, resistors, capacitors, and other parts. Most modules require only 2 or 3 items (battery, mike, speaker, etc.) to complete each device.

No. 20A1160. PUBLIC ADDRESS AMPLIFIER MODULE. High gain for use with high or low impedance, crystal or dynamic mike. Drives any size PM speaker or trumpet. Operates on 6 volt battery.

No. 20A1161. INTERCOM MODULE. Ready for instant use... just connect to two speakers, 6 volt battery and switch. Provides a complete system.

No. 20A1162. PHONO AMPLIFIER MODULE. Connect to an 8 ohm speaker, 6 volt battery and phono pickup. Provides for above average volume.

No. 20A1163. POLICE SIREN MODULE. Produces high level upward scream and downward wail. Drive any 8 ohm speaker. For use with 6 volt battery. Complete instructions.

No. 20A1251. STEREO AMPLIFIER MODULE. For crystal or ceramic stereo cartridge. Good fidelity and volume. Requires 2 8-ohm speakers, 2 1-meg. potentiometers and 6 volt lantern battery.

No. 20A1164. TELEPHONE AMPLIFIER MODULE. Simply connect to any PM speaker, 6 volt battery and telephone pickup coil. Amplifies telephone conversation for group listening.

No. 20A1222. GUITAR TREMOLO MODULE. Connects between guitar pickup and amplifier. Tremolo frequency adjustable from about 4 to 15 Hz. Requires 9 V. battery and 25,000 ohm volume control.

No. 20A1166. CB MICROPHONE PREAMP MODULE. Ready to use preamp. Increases modulation to optimum for dependable transmissions. Use any 1 1/2 volt battery.

No. 20A1167. BURGLAR ALARM MODULE. Automatically sounds a siren alarm when window or door is opened. For use with 6 volt battery and 8 ohm speaker. Complete instructions.

No. 20A1226. C.W. MONITOR MODULE. Operates from RF energy surrounding your transmitter. Keying transmitter in normal way produces CW note in any 8 ohm speaker. Requires 1 1/2 V. battery.

WIRELESS MICROPHONE TRANSMITTER MODULE

Connects to any high impedance microphone and 9 volt transistor battery. Will transmit voice into nearby radio. In accordance with the regulations of the Federal Communications Commission these wireless modules are warranted by the manufacturer to have a power input of less than 100 milliwatts and may be used by anyone without licensing or registration of any kind.
No. 20A1169. For AM Radios No. 20A1172. For FM Radios
No. 20A1170. For FM Radios as above except for low impedance mike.

YOUR CHOICE ANY OF ABOVE, EACH \$3.49

BATTERIES FOR ABOVE KITS

- No. 21A1. 1 1/2 Volt Battery. Each 20¢
No. 21B89. 6 Volt Battery. Each \$1.13
No. 21B141. 9 Volt Battery. Each 54¢

DUAL FLASHER (FLIP-FLOP) MODULE

Build auto road warning lights, window display attention getters, model train grade crossing flasher, bicycle rear wheel safety flasher, etc.
No. 20A1174. Wt. 4 oz. Special Each \$1.99
No. 21B89. 6 Volt Battery. Each \$1.13

METRONOME MODULE

Makes a dependable metronome at fraction of usual price. Adjusts 40 to 208 beats. Requires 2 Meg. Pot., 6 V. battery and speaker.
No. 20A1175. Wt. 4 oz. Special Each \$1.99
No. 21B89. 6 Volt Battery. Each \$1.13

BATTERY CHARGER MODULE

Charges flashlight and transistor batteries from 1 1/2 to 22 1/2 volts from 115 VAC. Trickle charges at 3 mil rate. Makes batteries last several times longer. Requires a line cord and wire and clips to connect to batteries. Wt. 4 oz.
No. 20A1176. Special Each 99¢

**CODE PRACTICE OSCILLATOR
MODULE**

98c

Operates from any 1 1/2 to 6 volt battery and any PM speaker. Only three connections to make. Requires no adjustment. Wt. 4 oz.
No. 20A1177. Each 98c



METAL LOCATOR MODULE

Detects and locates larger metal objects at distances up to several feet away and smaller metal objects (such as coins) at distances up to several inches away. Use with AM radio (no connections required). Requires 9 volt battery, 5000 ohm pot, 30 feet of #22 insulated wire, and 2 pieces of wood.
No. 20A1238. Each \$5.00
No. 21B141. 9 Volt Battery. Each 54¢





IOR
STARTER KIT
\$8.85

INTERNATIONAL
RECTIFIER



Light travels from end to end of these remarkable plastic fibers by total internal reflection. The fibers may be bent around corners, even tied in knots. The light follows the fibers and shines out the end. Use them anywhere a flexible, movable point of light is desired.

MASTER ASSORTMENT

Contains one each of all fibers and accessory items. A total of 264 feet of mono fiber, 9 feet of jacketed light guides, 4 channel light head, low voltage power source, end treat compound, eyelet assortment, spare bulbs and the Fiber Optic "Why-How-Where" Handbook.

No. 12A2849. OP8080-C. Each **\$23.95**

Fiber Optics Starter Kit contains 30 six foot lengths of 10 mil mono-fiber, 8 six foot lengths of 20 mil, 3 feet of cabled 19 fibers each 17 mils, eyelet assortment, adhesive end treat compound and instruction book. A \$12.10 retail value.

No. 12A2652. OP8070C Starter Kit. Each **\$8.85**

"FIBER OPTICS BOOK"

The history, principle, methods of working with, applications and project suggestions concerning plastic fiber optics.

No. 12A2672. OP8060C. Each **69¢**



MONO-FIBER AND LIGHT GUIDES

Stk. No.	I.R. No.	No. of Fibers	Pcs. in pkg.	Piece length	O.D. Inches	Per Package
12A2653	OP1030-C	1	30	6 ft.	.010"	\$2.49
12A2654	OP1060-C	1	60	6 ft.	.010"	4.49
12A2655	OP2008-C	1	8	6 ft.	.020"	2.49
12A2656	OP2016-C	1	16	6 ft.	.020"	4.49
12A2657	OP3003-C	1	3	6 ft.	.030"	2.69
12A2658	OP3006-C	1	6	6 ft.	.030"	4.79
12A2659	OP4503-C	1	3	6 ft.	.045"	3.59
12A2660	OP4506-C	1	6	6 ft.	.045"	6.89
12A2661	OP7073-C	7	1	3 ft.	ø .087"	1.39
12A2662	OP7076-C	7	1	6 ft.	ø .087"	2.29
12A2663	OP7193-C	19	1	3 ft.	ø .120"	2.29
12A2664	OP7196-C	19	1	6 ft.	ø .120"	3.99
12A2665	OP7373-C	37	1	3 ft.	ø .152"	2.79
12A2666	OP7376-C	37	1	6 ft.	ø .152"	4.89

*Each fiber is .017" diameter. Has jacket over all fibers.

Four Channel Light Head. For low voltage power supply (6 to 12 volts ac/dc). Consists of 2 wires, light socket, light bulb (No. OP8020) and a 4 channel lensed cover. Includes 2 part connector.

No. 12A2667. No. OP8000-C. Each **\$2.79**

Light Bulbs. Designed for maximum light output in conjunction with No. OP8000 and No. OP8010.

No. 12A2669. No. OP8020-C. Package of 2 **59¢**

Low Voltage Power Source. Rated at 7 volts 400 mw. this unit is designed for use with IR's No. OP8000.

No. 12A2668. No. OP8010-C. Each **\$5.49**

Eyelet Assortment. Contains 5 each of 4 different sizes for use with all fibers as well as No. OP8000 four channel light head.

No. 12A2670. No. OP8030-C. Package **79¢**

Adhesive/End-Treat Compound. A non-toxic material for use with plastic fibers to assure greater light transfer and not to damage the fiber. Cures in 15 minutes

No. 12A2671. No. OP8050-C. Each **\$2.49**

XENON STROBE TUBES

Low Power Strobe Tube. Great for experimenters' use in building low cost psychedelic strobes. Flash voltage 300 volts, maximum flash voltage 400 volts, minimum starting voltage with min. 4.0 KV Trigger 200 volts. Normal life in flashes at max. input 8,000.

No. 12A4488. Each **\$4.95**

Medium Power Strobe Tube. Flash voltage 500 volts, maximum flash voltage 550 volts. Minimum starting voltage with min. 4.0 KV Trigger 400 volts. Normal life in flashes at max. input 10,000.

No. 12A4489. Each **\$8.95**

High Power Strobe Tube. Used in commercial strobes. Flash voltage 900 volts. Maximum flash voltage 1050 volts. Minimum starting voltage with min. 4.0 KV Trigger 800 volts. Normal life in flashes at maximum input 10,000.

No. 12A4490. Each **\$10.95**

TRIGGER TRANSFORMER

No. 12A4491. 6KV use with 12A4488 and 12A4489.

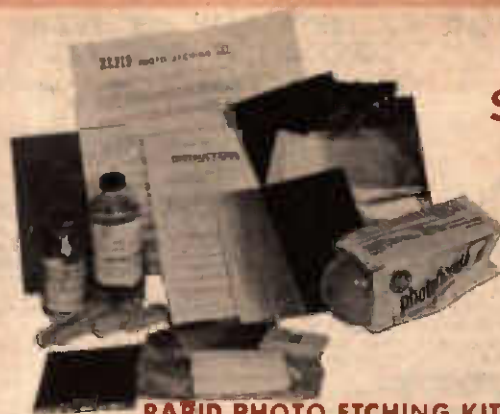
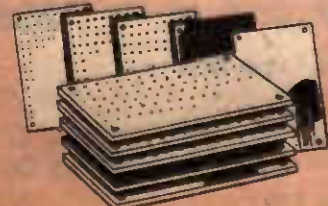
Each **\$2.95**

No. 12A4492. 10KV use with 12A4490. Each **\$4.95**

KIT OF 5 PANELS

Handy boards for modern solid state projects. Ideal for pancake stacked construction using spacers at corners. (See picture.) All 6"x3 1/2" — one each brushed aluminum, black phenolic and 3 tan phenolic. Tan boards are punched with 1/8" holes on 1/8" center. Great for modular construction. Shpg. Wt. 6 oz.

No. 5A5577. Net Each **\$1.99**



\$19.95

RAPID PHOTO ETCHING KIT

This break-through in photo technology allows the commercial user to make highest quality small production and sample run PC boards. For hobbyists and experimenters it offers the way to make professional PC boards. Educational institutions, too, can introduce photo etching technology to their students and produce PC boards for class projects without expensive equipment. Developing of film and boards can be done in any semi-dark room you furnish only the glass or china trays for developing solutions. Everything else is in the kit. Uses the rapid negative and direct contact photo process to produce true photo negatives from drawn circuits, from copies of book illustrations, even from Xerox copies of circuit illustrations without a dark room. Rapid film is processed by the same equipment used on photo sensitized boards.

Contains everything you need to make your own negatives and PC boards. Changes in circuitry, or correction of mistakes, may be made after developing by re-touching the negative. Negative can be used for hundreds of identical PC boards for sample or small production runs. Detailed instructions included. Kit contains 4 rapid films, 3 drawing paper, 6 sensitized PC boards, developer and etchant, photoflood lamp, glass and back-up plates for film and board exposure. Light filters and other accessories are included. Shpg. wt. 4 lbs.

No. 12A2850. Each **\$19.95** 3 Each **\$16.95**

PHOTO SENSITIZING KIT

Photo sensitize your own regular copper clad PC boards, re-use boards that have been accidentally ruined before etching, and gain more know-how in PC board technology with this sensitizing kit. Apply photo resist fluid to the board with the ordinary paint brush supplied according to complete instructions furnished. Should be done in semi-dark room. Instructions detail exact operations required including optional methods of drying the coated boards. Kit contains photo resist and solvent stripper fluids, application brush, light filter and instructions. Sensitizes twenty 6x4" boards. Shpg. wt. 3 lbs.

No. 12A2852. Each **\$9.95** 3 Each **\$8.49**

DIRECT CONTACT PHOTO PROCESS FOR NEGATIVES & PC BOARDS

A kit developed by professionals to produce high quality PC boards in quantity with a minimum investment. A dark room procedure for making contact negatives is used. The kit contains all items needed except glass or china trays for the developing solutions supplied. Kit contains two Kodak 5x7" and two 5x1" negatives, Kodak developer and fixer, red and amber light sources, glass plate, 2 PC boards 4x6" and 4 boards 2x3", board developer and etchant, exposure light, drawing paper and detailed instructions so even the beginner can produce professional results. Shpg. wt. 4 lbs.

No. 12A2851. Each **\$19.95** 3 Each **\$16.95**



EICOCRAFT "LIGHT CHASER"

\$19.95

COMPLETE KIT

Remember the "moving" lights on the theatre marquee? . . . or the booths at the local carnival?

You can produce a similar sequence of "on-off" states that create the appearance of light "running around."

Put a "light chaser" string of lamps around your front door for holidays. Or add extra attention-getting power to any indoor or outdoor display, theatrical, bazaar or fun atmosphere—your imagination is the only limitation. The convenient Speed Control makes possible a wide latitude of "chase."

The reliable all solid state design has 9 semiconductors, printed circuit board construction, 3 lamp channels, (up to 150 watts maximum per channel) and features modern 3-stage ring-counter circuitry with unijunction transistor oscillator trigger. The full-wave bridge rectifier power supply assures full lamp brightness. Supplied complete with custom cabinet.

No. 20A1307. EC4600 Kit. Each **\$19.95**

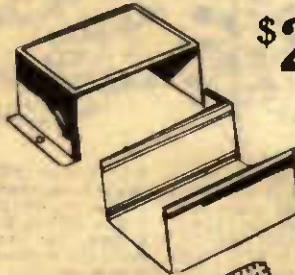
No. 20A1308 4600 Wired Ready To Use. **\$29.95**

TWO COLOR METAL UTILITY CABINETS



Strikingly handsome utility cabinets for housing miniature or medium sized equipment such as intercoms, amplifiers, control systems, power supplies etc. Have black wrinkle steel cover with ventilating perforations at rear. The white front and rear panels are recessed slightly behind the cover edges. Panels and bottoms are one piece aluminum for easy drilling. Assembled by four screws at bottom of cover, the panels can be tilted for easy viewing of controls if desired. Cabinets have four rubber feet, semi-hidden by the cover which extends slightly below the cabinet floor. A quality import.

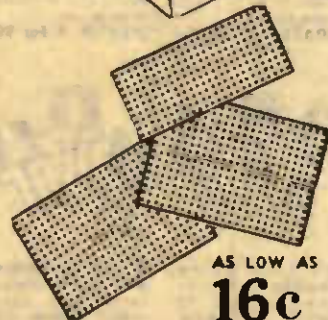
Stock No.	Size Inches			Shipping Weight	1-24		25-99		100 up	
	H.	W.	D.		Each	Each	Each	Each		
5A3074	2-3/16	3-1/4	4-4	1 lb	\$1.95	\$1.75	\$1.58			
5A3075	3-1/2	4-1/4	4-3/8	1-1/2 lbs.	2.95	2.65	2.39			
5A3076	3-5/8	6-5/8	1-7/8	2 lbs	4.25	3.83	3.45			



\$229 ALL ALUMINUM 2-PIECE BOX

Best enclosure we have seen for builders' projects—very professional appearance. Heavy extruded aluminum. Lid snaps into place, no screws showing. Has "U" channel that printed circuit board slides into. Case may be drilled or punched for transistor mounting. Thick aluminum makes excellent heat sink. Made in America by Delta. Size 3-5/8x2-3/4x1-3/4" H. Shpg. Wt. 4 oz. 5A3043

Each..... \$2.29 10 @ \$1.99



PERFORATED BOARDS

Quick, convenient way for assembling transistor circuits. 1/8" thick, .062 dia. holes set 1/8" between centers. Average wt. 4 ozs.

No. 12A9626. 2 7/8 x 3 3/8"..... 16c

No. 12A9628. 3 1/2 x 6 3/4"..... 45c
No. 12A9630. 7 1/2 x 6 3/4"..... 75c
No. 12A9631. 10 1/2 x 7 1/4"..... \$1.20

12A2309. .062 dia. Clips. 100 For \$1.75

RECTIFIER MOUNTING KITS

Each set contains 6 pieces: insulating washers, solder lug lock washer and nut.

For 1/2" Hex Rectifier type DO-4, TO-64, R2 and R6. Wt. 1 oz. No. 12A2402.

Per Set for One Rectifier..... 25c

For 1/2" Hex Rectifier type DO-5, TO-48 and R3. No. 12A2403.

Per Set for One Rectifier..... 39c



NEEDED TRANSISTOR MOUNTING KITS



Includes all necessary hardware and insulators for making professional style installations. Wt. 2 oz.

① "Diamond Shape" TO-3 Type. No. 12A2400

Special Each..... 39c

② "Door Knob" TO-36 Type. 12A2401, Special Each..... 39c

SELENIUM SOLAR CELL

Extra high output—generates 2 MA at 5 volt in sunlight. Will operate sun powered radios (circuit enclosed), light meters. Size only 1 1/4 x 7/8" with wire leads. Includes suggested circuits. Wt. 3 oz.

No. 20A39. Special Each..... 99c

3 For \$2.50 12 For \$7.99

99c



BIG EXPERIMENTER SEMICONDUCTOR ASSORTMENT

Super value! A selection of most popular semi-conductors. Experimenters and hobbyists will find hundreds of uses for this assortment. Contains: 4 PNP, 4 NPN and 2 power transistors, 4 - 2 amp. 200 PIV silicon rectifiers, 20 general purpose diodes and 4-3/4 watt zener diodes with marked voltages.

No. 20A1210. Per Asst. \$2.99

100 PIECE EXPERIMENTER SEMICONDUCTOR ASSORTMENT

Large selection of popular semiconductors. Items with similar appearance marked for easy identification. Contains 2 - 15 watt PNP-AF germanium TO-3, 2 - 15 watt NPN silicon mcsa gen. purpose TO-3, 2 - 15 watt PNP germanium gen. purpose TO-3, 4 - .4 watt PNP germanium gen. purpose TO-9, 4 - .4 watt NPN germanium gen. purpose TO-5, 15 - .2 watt PNP germanium MADD TO-24, 2 - .2 watt PNP germanium DAT TO-5, 5 - .2 watt germanium diodes, 2 - 2 AMP silicon SCR TO-18, 22 gen. purpose germanium diodes, 27 gen. purpose silicon diodes, 4 - 2 AMP 200 volt silicon stud rectifier, 9 assorted zeners with marked voltages.

No. 20A1248. Per Assortment \$5.99



FAIRCHILD INTEGRATED CIRCUITS

FAIRCHILD 703 RF AMPLIFIER. Contains 3 transistors, 2 diodes, 2 resistors, 14 circuit drawings and data to build RF amplifiers, IF strips, oscillators, color TV IF amplifier.

No. 20A1197. Special Each \$1.69

No. 12A5051. 6 Pin Socket for above. Each..... 58c



LIGHT SENSITIVE PHOTO CELL

ONLY 99c



Tiny glass enclosed cell, 1/2" dia. Cell resistance changes with light. Operates sensitive AC relay without amplifier. Interesting and practical circuits included.

Shpg. wt. 3 oz. No. 20A22. Spec. Ea. 99c

BA BARGAINS!

SEMI CONDUCTORS

BRAND NEW FULLY GUARANTEED

LOW, LOW PRICES ON TRIACS

Popular triacs for builders projects available at tremendous savings. Use in motor, speed controls, light dimmers, relay controls, heating controls, etc. Use 200V for 120 volt line operation, 400 V for 240 volt line operation.

Stock No.	RMS Load Current	Off State Volt Rating	Gate Firing Requirements Volts	Requirements		Price Each
				MA	Price	
① 20A1282	3	200V	10	10	\$1.29	
① 20A1283	3	400V	10	10	\$1.69	
① 20A1284	6	200V	25	25	\$1.49	
① 20A1285	6	400V	25	25	\$1.79	
② 20A1286	6	200V	50	50	\$1.79	
② 20A1287	6	400V	50	50	\$1.99	
② 20A1288	10	200V	50	50	\$2.69	
② 20A1289	15	200V	50	50	\$2.99	

Diac to trigger triacs. Breakover voltage 32V. No. 20A1290. Each..... \$.49

BIG SAVINGS ON AMERICAN MADE SILICON POWER RECTIFIERS

EVERY ONE TESTED AND GRADED FOR QUALITY

Now you can afford to stock up and save! These fine power silicones ordinarily sell for several times our price. Needed for DC power supplies, chargers, experimental and builders projects, etc. Hex metal case, stud mounted, individually packaged. Positive polarity types have cathode connected to stud mounting; negative types have anode stud.

Stk. No.	PIV	Stud Polarity	Net Ea.	Stk. No.	PIV	Stud Polarity	Net Ea.
20A1178	100	Positive	\$.49	20A1186	100	Positive	\$0.69
20A1179	100	Negative	.49	20A1187	100	Negative	.69
20A1180	200	Positive	.74	20A1188	200	Positive	.99
20A1181	200	Negative	.74	20A1189	200	Negative	.99
20A1182	400	Positive	.99	20A1190	400	Positive	1.39
20A1183	400	Negative	.99	20A1191	400	Negative	1.39
20A1184	800	Positive	1.49	20A1192	750	Positive	1.99
20A1185	800	Negative	1.49	20A1193	750	Negative	1.99

1 1/2 AMP EPOXY SILICON RECTIFIERS B-A's LOW PRICES DARE COMPARISON!

Guaranteed first quality. Just the ticket for high voltage power supplies in ham gear, TV sets, etc. 1 1/2" axial wire leads. Wt. 8 oz. per 10.

Stock No.	Current	PIV	Each	10 Lots Each
20A1291	1 1/2 AMP	200 PIV	\$0.29	\$0.24
20A1292	1 1/2 AMP	400 PIV	.35	.24
20A1293	1 1/2 AMP	600 PIV	.39	.34
20A1294	1 1/2 AMP	1000 PIV	.59	.49

2N404 TRANSISTORS

Popular PNP switching transistors at tremendous savings.

No. 18A1528. 25c Each 100 Lots Each 19c

SUB-MINIATURE 1N34A DIODE

Latest sub-miniature glass type. Shown actual size. Has 1 1/8" axial leads.

No. 18A15. 19c Special Each 100 Each 15c

INSULATORS FOR TO-3 TRANSISTORS

Nylon Screw Insulators for TO-3. No. 12A2490

Package of 16 - Per Pkg. 86c

Mica Collector Insulators for TO-3. No. 12A2491

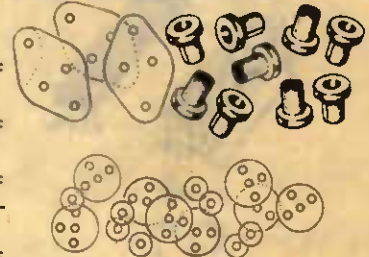
Package of 8 - Per Pkg. 86c

Mica Collector Insulators. For TO-66 No. 12A2848

Package of 10 - Per Pkg. 86c

Mica Collector Insulators and Washers for TO-36 No. 12A2847

Package of 16 - Per Pkg. 86c



ALLIGATOR CLIP LEADS

Bundle of 10 always needed flexible plastic insulated 15 inch jumper cords with spring alligator clip and insulator on each end. Ready to use in 5 assorted colors. Wt. 8 oz.

No. 12A1996. Bundle of 10..... \$1.59



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BARGAIN BONUS!

YOUR CHOICE 99c EACH

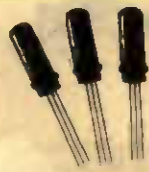
SAVE ON AMERICAN MADE SEMI-CONDUCTORS

ALL TESTED—TOP QUALITY MANUFACTURERS! AT LOWEST BARGAIN PRICES! ALL GUARANTEED OPERATIVE! Average shpg. weight 3 ounces.

BAKERS DOZEN BONUS!
GET 1 FREE WITH EVERY 12 PURCHASED!



4 Ruggedized 12AU7 Tubes, Type 6211. Exact replacement for 12AU7. Outlasts regular 12AU7 tubes, with wire leads. 18A1323. 4 For99c



10 MADI High Frequency Transistors. Similar to 2N501 PNP. 30-180 MHz. Used in RF, hi-speed switching. 20A1106. 10 For99c



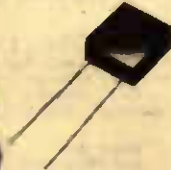
3 PNP High Power Transistors. Assorted cases. 10-40 W. Similar to 2N155, 2N255 and 2N158. 20A1107. 3 For99c



4 RF Silicon Transistors. NPN type. Similar to 2N914, 2N834, 2N708, 2N-2501, etc. 20A1108. 4 For99c



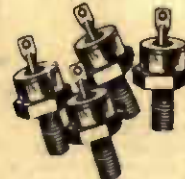
5U4 Silicon Rectifier Tube. Replaces 5U4GB, 5V4CA, 5W4, 5Y3, 1 1/2 x 3/8" H. 20A1250. Each99c



Color TV Rectifier. 2000 PIV, 1 Amp. For TV replacement, experimenting, etc. Encapsulated 1/4 x 1/2 x 3/8", with wire leads. 20A1126. Each99c



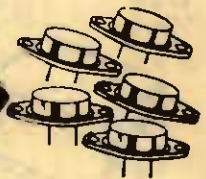
16 Amp SCR. 200 PIV. Use for switching, light dimmers, speed control, etc. 20A1196. Each99c



4 - 2 Amp Silicon Rectify. Rugged 10-32 x 1/2 mt 50 PIV. rugged construction. DO-4 case. Positive polarity. 20A1120. 4 For99c



5 Transistors NPN similar to 2N35 NPN general purpose germanium. Rated 150 MW. Vcb 25. Gain to 125. TO-5 case. 20A1100. 5 for 99c



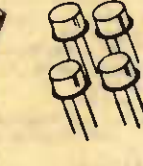
5 - 10-Watt PNP Power Transistors. Similar to 2N155, 2N554, 2N176. TO-3 case. For auto radio, phono, power supply, etc. 20A1109. 5 For 99c



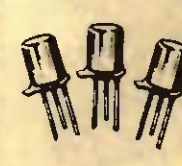
25 Germanium Diodes. Similar to 1N34, 1N60, 1N64. Use for crystal sets, radios, etc. Terrific low B-A price! 20A1111. 25 For99c



6 Assorted NPN and PNP Micro Transistors U-8. Used in mid-audio output. Smallest transistor made. 20A1403. 6 Assorted.....99c



4 PNP General Purpose Audio Transistors. Similar to 2N107-CK722 for pre-amps, mike and phono circuits, code oscillators. 20A1211. 4 For 99c



3 200 MHz Silicon Epitaxial Transistors. Similar to 2N706, TO-18 case. Vcb 25, MFe 20, 10 MA. 20A1105. 3 For99c



8 PNP Germanium Switching Transistors. TO-5 case. Freq. 8 MHz 150 MW, MFe 40 typical. Similar to 2N1305, 2N394, 20A1125. 8 For .99c

TOP QUALITY! LOW COST TOP QUALITY! LOW COST TOP QUALITY! LOW COST



HIGH POWER SILICON RECTIFIER
100 V. PIV, 25 AMP
69c

Needed for DC power supplies, chargers, etc. Standard 1/4-28 stud mounting. Hex case 1 1/2" diameter. Wt. 5 oz. No. 20A1208—Negative Stud Base No. 20A1209—Positive Stud Base Choice Each69c



POPULAR 3-CONTACT TRANSISTOR SOCKET
SPECIAL IMPORT VALUE **16c** Each, 10 Lots

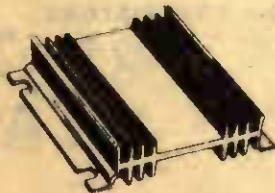
Popular bakelite 4-prong type for triangular base or in-line style transistor. Special import value. Wt. 1 oz. No. 12A5053 10 Lots, 16c Special Ea... 19c Each ... 16c



POPULAR MOTOROLA HEP INTEGRATED CIRCUIT KIT

KIT CONTAINS 5 IC DEVICES and Introduction to IC's through 8 Builders Projects. Includes 2-HEP580 Dual 2-Input Gates, and 1 each of HEP581 4-Input Gate, HEP582 Dual Buffer and HEP-583 J-K Flip Flop. Contains data for constructing a Precision Tachometer, Audio Signal Generator, Electronic Siren, Frequency Standard, RF Signal Injector, 4-Input Audio Mixer, Ultra Hi-Gain Amplifier and Sine to Square Wave Converter. Instructions are prepared for the novice experimenter with tips on wiring, soldering and cross reference to other brands of IC's allowing building many other published projects. Each IC device in kit is housed in a TO-99 Case with 8 leads. Wt. 4 ozs. Motorola Hek-1 IC Experimenters Kit, Net Each.....\$3.95 No. 12A5052, 8-Pin Integrated Circuit Socket, Net Each 69c

SEMI-CONDUCTOR HEAT SINKS



AS LOW AS **97c**

Aluminum unpunched. All 4 1/2" W. x 1" H. Wt. 8 oz. No. 12A2406-3" Plain, Each... 97c No. 12A2407-3" Anodized, Ea... \$1.14 No. 12A2408-6" Plain, Each... \$1.52 No. 12A2409-6" Anodized, Ea... \$1.81

FULL WAVE BRIDGE RECTIFIER



200 Volts PIV (at 1.5 A. Molded case .688 L. x .469 H. x .251, with 1 1/2" leads. For transistor power supplies, bias and relay supplies. No. 20A7511 Special Each\$1.27

ACTUAL SIZE



MALLORY UNIVERSAL RECTIFIER
2 1/2 AMP 1000 PIV **59c**

Replaces all axial lead rectifiers rated 600 mA, 750 mA, 1000 mA, 2000 mA, and 2500 mA units, with voltages ranging up to 1000 PIV. Mallory M2.5A. Each59c 10 Lots Each49c

3 AMP 200 VOLT BRIDGE RECTIFIER
Black molded case. 3/8" dia. X 1/4" H. 1 1/4" leads. Compare at twice our low price! \$1.59 No. 20A1281. Each

BRIDGE RECTIFIER BARGAIN!
Stud mounted. 800 V. PIV, 3A amps, full wave bridge. Size 1/2" hexagonal. 10-32 X 1/2" stud. \$1.95 No. 20A1269. Special Each.....

UNIVERSAL 3 AMP FULL WAVE BRIDGE RECTIFIER

RATED 1200 VOLTS
Molded case. 3/8" sq. 1/2" thick. Replaces all bridges with voltages ranging up to 1200 volts. \$1.49 No. 18A1563 Special Each.....

\$1.49

1 AMP 4000 VOLT RECTIFIER
Encapsulated for easy mounting, electrical insulation and stability. Compares with rectifiers selling for 3 times our low give-away price! Size: 3/4 X 3/4 X 3. Terminal height 3/8". Mtg. ctrs. 2 1/2". Shpg. wt. 8 ozs. \$2.49 No. 18A1561 Each..... \$2.29 6 Lots Each.....



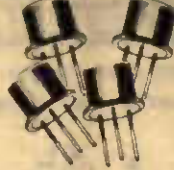
7 Silicon Power Rectifiers. 2 to 6 amp ratings, 50-400 PIV. 10-32 stud mount, DO-4 case. Positive polarity.
20A1123 7 For 99c



4 - PNP 100MHz. Germanium Mesa Transistors. Similar to 2N705, 2N711, 2N974. 360 MW. Vcb 60, Hfe 25, 10 MA. TO-18 case.
20A1101. 4 For .99c



4 - 10-Watt NPN Power Transistors. For building or replacement. TO-3 case. 15 volt min., Beta min. 25.
20A1110. 4 For .99c



8 Transistors similar to 2N404. Short leads for printed circuit. One of the most popular switching transistors ever made.
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Two 1 Amp SCR's. 100 V. TO-5 pkg. Use for switching, light dimmers, speed control, etc.
20A1249. 2 For .99c



4 Silicon 1 Amp 600 V. Rectifiers. Top hat style. Top quality. For power supplies, radio, TV replacement, etc.
20A1104. 4 for 99c



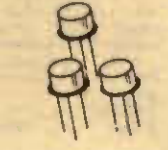
2 10-Watt Power Transistors. PNP type. TO-3 case. Similar to 2N155, 2N176 and 2N235.
20A1118. 2 For .99c



8 NPN Silicon Switching Transistors. TO-5 case. Similar to 2N333, 2N336. Freq. 6MHz. 150 MW, Vcb 10, Hfe 70, 10 MA.
20A1124. 8 For .99c



4 15-Watt Power Transistors. PNP type. Similar to 2N158. For audio and switching applications.
20A1119 4 for 99c



3 NPN 100 MC Silicon 2-Watt Transistors. Similar to 2N696, 2N697, 2N1613. Vcb 60 V. Hfe 40, 150 MA. TO-5 case.
20A1102. 3 For 99c



40 Watt Power Transistor. Stud mtg., equivalent to type 2N173. Just it for power supplies regulators.
20A1195 .99c



2 Amp 800 PIV Silicon Rectifiers. Compares at 5 times our price.
18A1445. 2 For .99c



3 Raytheon CK722 Transistors. General purpose type. Base amp factor 22. Freq. cutoff 6 MHz.
18A1446. 3 for 99c



2 NPN 15 W. Silicon Power Transistors. TO-3 case. Audio type for linear operation, servo amps, osc., inverters, etc.
20A1207. 2 for .99c



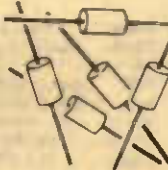
Three 1 Amp 1000 PIV Silicon Rectifiers. Small top hat style, have 1 1/2 leads.
18A1166. 3 for 99c



Transistor Socket Assortment. 10 bakelite sockets. Ass't. styles for power, triangular or in-line types.
12A5000. 10 For .99c



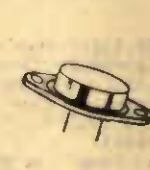
Light Sensitive Photo Cells. Pkg. of 2. Cadmium sulphide. Low ohmage 300 V. 75 MW. Cell resistance changes with light.
20A1113. 2 For .99c



6-600 PIV 1 Amp Rectifiers. Modern metal case, flangeless. Silver lead.
20A1202. 6 For .99c



5 Piece Power Transistor Kit. Power rating 4 to 50 watt. Germanium and silicon types. Assorted case sizes.
20A1116. Kit of 5. .99c



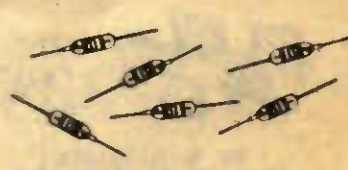
2N3055 Transistor. Silicon NPN. For switching, driver, output, and amplifiers.
18A1494. Ea. .99c



Two 1000 PIV, 1000 MA Rectifiers. Glass enclosed. For service and building. Series for extra HV.
20A1201. 2 For .99c



4-1 Watt Zener Diodes. Individually marked, 10% tolerance. Voltages 4 to 25 V.
20A1203. 4 For .99c



6 Pieces 400 MW Zener Diode Assortment. Individually marked. 10% tolerance.
No. 20A1204. Assorted 5 V. to 25 V.
No. 20A1205. Assorted 26 V. to 50 V.
No. 20A1206. Assorted 51 V. to 90 V.
YOUR CHOICE PER ASST., 6 PIECES .99c

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SPECIAL PURCHASE—Made to Government Specifications . . . same as used in every satellite to furnish electrical power

ENERGIZED FROM SUN OR ARTIFICIAL LIGHT

WERE REGULAR UP TO \$3.50 EACH
\$2.49
KIT OF 15
4 KITS FOR \$8.88

KIT OF 15 AT LESS THAN ORIGINAL COST OF A SINGLE CELL



Changes light to electrical voltage. Ideal for powering all types of transistorized equipment and experimental projects . . . i.e. lightmeters, radios, amplifiers, counters, etc. May be used in series or paralleled or series paralleled for higher output.

Perfect for science classes, laboratories, science projects, experimenters, hobbyist. Produces up to 1/2 volt and up to 5 MA. Assorted sizes from 3/4" square to 3/4" x 1 1/2", some with leads attached.
No. 18B144. Wt. 6 oz. **\$2.49** For **\$8.88**
Kit of 15 For

Experimenters Solar Cell Handbook. 26 pages of useful information, experiments and circuits for Solar Cells and how to use them.
No. 16A1112. Each 50c FREE if purchased with 18B144 Kit Above.



EXPERIMENTERS MOTOR

SPECIAL ANTI-FRICTION BEARING TYPE

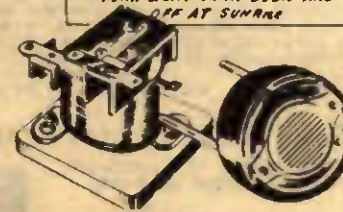
Designed to operate directly from the power supplied by Solar Cells. Offers many fascinating experiments and science projects. Runs on 1.5 to 6 volts at 30 to 40 MA. Connecting a number of the cells listed above in series parallel will operate the motor. Wt. 10 oz. **\$3.95**
Int. Rect. EPSOC Each



SENSITIVE LIGHT ACTUATED SWITCH \$1.98

A highly interesting Germanium Photo Power Transistor, which requires only a 6 V. battery to operate relays, motors, etc. Regular two cell flashlight will "trigger" this device. Mounts 1/4" centers overall dia. 1". Includes building diagrams for use. Wt. 4 ozs.
No. 20A1199. Each **\$1.98**

BUILD YOUR OWN LIGHT CONTROLLED RELAY AT A FRACTION OF THE USUAL COST!



LIGHT SENSITIVE PHOTO CELL AND RELAY \$4.97

RELAY SIZE: 1 1/8" x 1 1/8" x 1 1/8"

The two basic components, a high quality extra sensitive relay and a light sensitive cell . . . plus circuit diagrams for building useful and interesting devices . . . day-night control of lights or other electrical equipment, light actuated burglar alarm and remote control TV "Commercial Killer." Many other uses will suggest themselves to the experimenter and engineer. Fine for production or traffic counters, door openers, etc. Tiny glass enclosed light cell is only 1/2" x 3/8" with 2 wire leads. Relay, size 1 1/8" x 1 1/8" x 1 1/8". Has SPDT 1 ampere contact. Completed control operates on 115 V. AC.
No. 41A4022. Wt. 1 lb. **\$4.97**
Special Light Cell and Relay

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30 MINIATURE ELECTROLYTIC CAPACITORS

30 FOR \$4.95

UPRIGHT MOUNTING FOR TRANSISTOR RADIOS & PERF. CIRCUIT BOARDS

30 Miniature 15 WV Electrolytics. 5 Each: 6, 30, 50 and 100 uf; 10 - 10 uf. Import. Wt. 1 lb.

No. 15A5094
Kit of 30

\$4.95



50 FOR \$3.95

50 MINIATURE MYLAR CAPACITORS

FOR TRANSISTOR RADIOS LATEST UPRIGHT MOUNTING

Fine import quality miniature Mylar by-pass upright mounting condensers as used in thousands of small transistor radios and other tiny devices. All 100 volts working. Import special. Contains: 5 each .1, .02, .04, .001; 10 each .01, .05, .005. Wt. 1 lb. 15A5095. Import Special.

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HIGH FIDELITY CONNECTING CABLES

Import Saving

\$2.19

FOR 4

4 color coded, shielded connector cables. Each 36 inches long with RCA type pin plugs molded to each end. Includes black, green, red and yellow. No. 33A6602. Wt. 10 ozs. Per Kit

FAMOUS B-A WAREHOUSE ASSORTMENT

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3 Lbs. Chuck Full of Costly Electronic Parts and Hardware... Switches, Condensers, Resistors, Controls, Transformers... etc, etc.

A package to truly amaze you! A tremendous value at only a small fraction of the original cost. Definitely not the usual floor sweepings but very useful and costly parts. Try one! If you are not happy blame our Boss Warehouseman, but we will give you your \$2.95 back. Shpg. wt. 3 1/2 lbs. No. 18A1384. Assortment... **\$2.95**



100 Most Needed Insulated Resistors. American made. Popular resistances. 75-1/2 and 25-1 watt. 14A5042
100 Assd. \$2.99



Sub-Miniature Plug & Jack Sets. 1 1/2" L., 1/8" shank 3/8" L. Closed circuit Jack mounts in 1/4" hole. Import special. 12A6000
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Terminal Strip Assortment. Popular types in various lengths. Always needed by anyone who builds or repairs. 18A114. 50 Pcs. 99c



Clock Radio Knob Kit. 25 Miniature knobs: 5 ea. white, black, red, brown and clear. Fit 1/8" split shaft. 1/2" dia. 1/2" L. 12A2380. Kit 99c



5 HV Plate Caps. With 6" HV insulated lead and molded connector for 1/4" tube caps. Fine TV replacement. 18A1363.
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240 Ft. Vinyl Insulated Stranded Hook-Up Wire. 8-30 ft. coils. Assorted colors. 18, 20 and 22 gauge. 18A1320.
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Parallel Wire. Handy 10' lengths, grey color. Stranded 24 gauge. Ideal for speaker leads. Made by Belden. 18A1314.
10 Lengths For 99c



TV-FM Plug & Socket. Low loss polystyrene. For flat TV lead. Size 7/8x2 1/2". Import. 7A229
2 Sets For 99c



10 Electrolytic Condensers. Twist prong. All new, different. A terrific value! 18B63.
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25 Pieces Heat Shrinkable Tubing. Assd. colors, 1 1/2" L., 1/8 to 1/2" dia. Shrinks 1/2 for tight fit. 18A1298
25 Pieces 99c



Stereo Phono Cords. Made by Switchcraft. RCA plugs one end, stripped and tinned other end. 70' long. 18A1466
Each \$1.29



Hi-Capacity Electrolytic. 1000-1000 Mfd. @ 15 V. with insulating sleeve. 1 X 3" H. 18A667. Ea. 69c
10 Each 59c



Transistor Audio Transformers. Crystal mike (200K); Input (2K); Driver (1K); Output (500 to 3.2 ohms). 18B728.4 For \$1.99



25 Disc Ceramic Condensers in most needed capacities. Worth at least \$3.75 regularly. Wt. 6 oz. 18A323. Top quality.
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10 Transistor Heat Sinks. Metal heat sinks fits TO-5 transistors. Fin design gives max. heat transfer. 12A2846.
Pkg. of 10 \$1.99



50 Molded Tubular Condensers in wide range of capacities - 200, 400 and 600 V. \$9.00 value. 18A232.
50 Assd. \$1.99



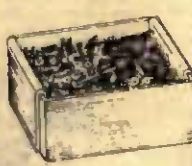
10 Rotary Switches. One switch worth price of entire kit! Experimenters, builders will find use for all! 18A436. 1 1/2 lbs.
10 Assd. \$1.49



Assorted Switches. Toggles, push-buttons, slides, even micros. 1 or 2 pays for entire lot. 18A935. Wt. 1 lb.
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Foot Bumper Kit of 16. 4 sets matched bumpers. Recessed, tack, screw type. — large and small. Mighty handy! Wt. 6 oz. 12A2466. Kit. 99c



2 Lbs. Often Needed Self-Tapping Screws. Big variety of sizes and lengths - Hex, Phillips, Round. 12A2356
2 Lb. Assd. \$1.39



60 Ft. Spaghetti. Assd. colors, sizes. High grade extruded plastic and cambric tubing 3/8" lghs. Wt. 1 lb. 12A2467
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14 Hole Plug Buttons. Assorted sizes. Handy to use in filling unwanted holes. Simply snap-in. 12A2493.
14 Assd. 99c



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50 Pieces 99c



30 Pilot Light Sockets. For bayonet lamps. All have wire leads. Several mounting styles. 12A5166.
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TINY MOLDED EMPTY CASE & SOCKET

JUST RIGHT FOR BUILDING TRANSISTOR MODULES



99c

Nice little plug-in circuit board with cover and receptacle. Inside dimensions: 1 1/8" L. x 1 1/8" W. x 1 1/8" H. Mounting centers 2 3/8". Special Import Value. 10 @ Each. No. 18A1402. Each



Special value!

10 @

89c

PANEL MOUNTING POWER PLUG & JACK

2 PRS. FOR \$1.29



Use to connect battery chargers or AC adaptors to accessory input. Like used with radios, recorders, phonos and walkie-talkies. Quality product of Japan. No. 12A6115. Special Package of 2 Pair **\$1.29**

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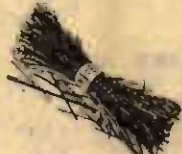
2 Variable 2-gang Capacitors. 1 with 280-10 pfd RF, 100-6 pfd osc. section; 1 with 135-10 pfd RF, 90-6 pfd osc. section. 12A1801. 2 For 99c



8 Tubular Electrolytics. Range 5 uf to 100 uf Assorted voltages. For builder, serviceman for transistor equip. Quality import. 15A5000. 8 for 99c



8 Tubular Subminiature Electrolytics. Range 5 uf to 100 uf Assorted voltages. For transistor equip. Imported. 15A5001. 8 for 99c



1 Lb. Cut Hook-Up Wire. Assorted colors, gauges, and lengths. Stripped and tinned for quick, easy use. 2A424. Each 99c



12 Volt Subminiature Bulb. With two 8 3/4" leads used in tape play, TV, Hi-Fi and radio. 12A4464. Each 79c



Test Leads. 42 inches long, red and black, standard insulated prods with phone tips. 18A1498. Pair 79c



3 Pole, 3 Position Slide Switch. Control to 9 different circuits. 3/8" W. x 1 1/2" L. 3 amp, 125 V. AC. By Stackpole. 18A1311. 2 For 69c



RH Machine Screws & Nuts. 100 each 4-40x1/2, 6-32x1/2 screws, 4-40, 6-32, 8-32 nuts; 50 each 6-32x3/4, 8-32x1/2 screws and 7/8 #6 x 1/2 metal screws. 12A2001.\$3.49



Transistor Sockets. Printed circuit or chassis mtg type. Fits in-line and triangular base 3-pin. Imported. 12A5127. Pkg. of 5 \$1.19



15 Amp Toggle Switch. SPST Top quality USA made. Rated 10 amp, 250 VAC, 15 amp 125 VAC, UL approved. Bat handle. 18A1426. Each 69c



Ant., RF, Osc. Coils and RF Chokes. 5 assorted. Rare find for builders & experimenters. 18A1574. 5 Assort.\$1.49



9 Volt Transistor Radio Batteries. Top quality import replaces Burgess 2U6, RCA VS-312, Eveready 216, etc. 21A185. 3 For 69c



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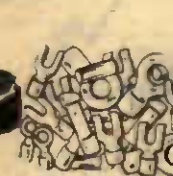
Bundle of Spaghetti. 24 pcs., each 9" L, varnished high grade tubing in assorted colors and sizes. Wt. 3 ozs. 2A8000. 24 Pc. Assort. 69c



10 Sets Pin Plugs & Jacks. RCA type so popular for phono, recorders, hi-fi, etc. Wt. 8 ozs. 12A6037. 10 Sets 99c



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100 Assorted Solderless Terminals. Most popular types and sizes. Includes ring tongues, slotted tongues, splice connectors, etc. 12A2468. Per Assort.\$2.59



Heavy Duty Jumpers. Five 22" L. White, green, black, yellow, and red. 12A2518. Each \$1.59



Miniature Screw Base Sockets with bracket and leads of high temp. insulation. 18A1553. 6 For 99c



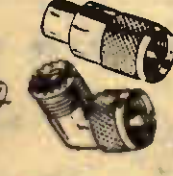
10 Pieces Sub-Miniature 455 KHz. IF and Oscillator Coils. Ferrite core, Slug tuned 1/2" sq. Shielded and unshielded. 13A5000. 10 For 99c



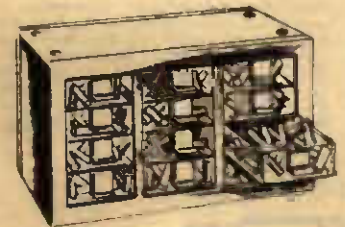
Plunger Type Switch. Normally open. 15 amps @ 125V. Installs on any door or window. 18A1472. 4 For 99c



25 Hi-Voltage Mylar & Paper Mylar Tubular Capacitors. Assorted range of capacities in 1000 and 1600 V. ratings. Made in USA. 18A1450. 25 Assort. 99c



PL259 Coax Connector plus a handy Right Angle Connector. For RGPU and RG11U. Reg. net value \$1.82. 18A1449. Par Set 99c



LIST VALUE OVER \$60.00 **\$10⁹⁵**

CHEST FULL OF CAPACITORS
155 CONDENSERS PLUS METAL STORAGE CABINET. Just look at what you get: 20 Tubular Electrolytics, both single and duals, 50 Molded Tubulars, 200, 400 and 600 volts in most popular capacities; 50 Disc Ceramics; and 35 Midget Micaps. 155 pieces total, all very usable values. Your average cost about 7c and the cabinet is free. Heavy gauge steel storage unit with "see-thru" clear plastic drawers measures 12" wide, 5 3/4" high, 5 1/4" deep. Regular net value cabinet alone \$3.99. Shpg. wt. 7 1/2 lbs. No. 18A233. COMPLETE KIT SPECIAL EACH **\$10.95**

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250 RESISTORS PLUS METAL STORAGE CABINET. Here's what you get: 200-1/2 Watt and 50-1 Watt Insulated Resistors in most popular resistance values. All latest, small types by IRC, Stackpole, etc. Average cost per resistor less than 5c and the cabinet is free. Includes Metal Storage Cabinet, as with above. Shpg. wt. 6 lbs. No. 18A235. COMPLETE KIT SPECIAL EACH **\$10.95**
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BRAND NEW FULLY GUARANTEED

COMPUTER BOARDS LOADED WITH PARTS
WORTH AT LEAST \$15.00
99c FOR 3

3 printed circuit boards, each loaded with brand new, high quality American made parts. Contains over 60 components in all. You get at least 10 transistors, miniature metal encased electrolytic capacitors and resistors, including 1% and 5% tolerance. Can be easily desoldered and punched board used for dozens of projects. Wiring easily removed or jumpered. Boards alone worth more than our unbelievable low price! Wt. 1 lb. No. 18D377. While Quantities Last, 3 For **99c**

2SB474 POWER TRANSISTORS
2 FOR **\$2⁹⁹**

General purpose germanium P-N-P for large audio amplifier application. Use in high fidelity amplifiers and other equipment which require wide frequency range and low distortion. Replaces transistors used in many types of imported equipment. Great choice for hobbyists and builders projects too. Furnished with collector insulator, screw insulators, and mounting screws, nuts, and washers. Quality import. No. 20A1270. Pkg. of 2 For **\$2.99**

WOULD NORMALLY COST OVER \$5.00!
MAGNETIC REED SWITCHES

B-A SPECIAL PURCHASE

5 FOR \$1.99

Hermetically sealed glass tube with a pair of magnetic overlapping reeds. Switches may be actuated with permanent or electro magnets. High sensitivity. Rapid cycling. Mount in any position. Ideal for counting instruments, limiting switches, alarm systems, etc. Size 3 1/2" x 1 1/4" dia. Would normally cost over \$1.00 each. No. 18A1499. 5 For **\$1.99**

BAT HANDLE TOGGLE SWITCHES BARGAIN PRICED!

BA BARGAINS!

BIG SAVINGS ON SWITCHES

BRAND NEW FULLY GUARANTEED



EXTRA TINY PUSH-BUTTON SWITCH

LESS THAN HALF USUAL COST

49c

SPST normally open, momentary contact. For all sorts of miniature AC or battery powered DC devices. Molded insulated housing and red button. Solder terminals. Really small, only $\frac{3}{8}$ " dia. x 1" long overall. Mounts in $\frac{1}{4}$ " hole. Top quality import at less than $\frac{1}{2}$ usual cost. Wt. 2 oz.

No. 19A7210 10 Lots, Net Each **49c** Each **39c**



65c
Each, 10 Lots



74c
Each, 10 Lots



49c
Each, 10 Lots

MOST POPULAR CARLING AT BIG SAVINGS!
U.L. Approved. Bakelite enclosed with $\frac{1}{8}$ " L. bat handle, $\frac{1}{8}$ " dia. x $\frac{3}{32}$ " L. shank, solder lugs. *Center off. Average shpg. wt. 3 oz.

Stk. No.	Action	Fig.	125 V.	250 V.	Net Each	10, Ea.	100, Ea.
19A7196	SPST	1	3	3	\$0.72	\$0.65	\$0.50
19A7197	SPDT	1	6	1	.92	.82	.63
19A7198	DPST	1	3	1	1.26	1.13	.86
19A7199	DPDT	1	3	1	1.39	1.25	.95
19A7201	SPDT	2	15	10	.82	.74	.57
19A7202	DPST	2	15	10	1.13	1.02	.78
19A7203	DPDT**	2	15	10	1.39	1.25	.95

SPST TOGGLE WITH LEADS

Compact, bakelite enclosed with two 2" wire leads. UL approved. 6 amp @ 125 volts. $\frac{3}{32}$ " dia. x $\frac{1}{4}$ " long mtg. shank. Wt. 3 oz.

No. 19A7204 10 Lots, Net Each **82c** Each **74c**



82c

SUB-MINIATURE 10-AMP TOGGLE SWITCHES

Perfect for miniature equipment. 10 amps @ 125 V. AC. Mtg. shank $\frac{3}{32}$ " x $\frac{3}{8}$ " long. Hardware included. 1 oz.

19A7188-SPDT. Each **\$1.49**
10 Lots Each **\$1.35**

19A7189-DPDT. \$1.89 10 Ea. \$1.70
19A7220, SPDT. Center off. Each \$1.89 10 Ea. 1.55

\$1.49
QUALITY IMPORT



TREMENDOUS SAVINGS SNAP-ACTION SWITCHES



(1) Miniature Micro V-3. SPDT 10 amps @ 125 or 250 V. $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " Insulated plunger travels .047". O.T. .031". Wt. 2 ozs.

No. 18C256 10 Special Each **69c** Each **59c**

(2) Window and Door Switches. Normally closed. Actuator button projects $\frac{3}{32}$ ". $\frac{1}{4}$ " quick disconnect or solder terminals. Rated 15 A. 125-250 VAC. $1\frac{1}{2} \times 3\frac{1}{8} \times 7\frac{7}{8}$ " overall size. Made by Cherry.

No. 18A1550 10 Each **69c** Each **59c**

(3) Unimax SPDT Switch. 15 A. 125 VAC. 1-7/8" L. X 1 1/16" W. X 1" H. Actuator extends $\frac{1}{4}$ ". Wt. 2 oz.

No. 18A1455 10 Each **99c** Each **90c**

(4) Miniature Micro V-3 Switch. Normally Open. With 1-7/16" long actuating lever. Rated $\frac{1}{2}$ A. 125 VAC. Body size 1-3/32 X 7/8 X 13/32". .187 quick disconnect terminals.

No. 18A1462 10 Each **69c** Each **59c**

POPULAR MODERN ROCKER SWITCHES



(1) Double Rocker Cutler-Hammer. Versatile, one side SPST, other SPDT. Center terminals can be cut apart for individual switching. $1\frac{3}{8}$ " mtg. ctrs. Overall $1\frac{1}{4} \times 1\frac{1}{4} \times 1\frac{1}{2}$ " D. 6 amp @ 125 V. Wt. 4 ozs.

No. 18A581 10 Special Each **49c** Each **39c**

(2) 3PDT Center Off, Cutler-Hammer. 6 amp @ 125 V. $1\frac{3}{8}$ " mtg. ctrs. Overall $2 \times 1\frac{1}{2} \times 1\frac{3}{8}$ ". Wt. 4 ozs.

No. 18B883 10 Special Each **69c** Each **59c**

CRL LEVER SWITCH



4PDT WITH OFF POSITION

59c

A real find for home built intercoms, audio systems, etc. Three position lever actuates all four poles of switch waffer. Up position "off", center position positive "on", down position "on" with spring return to middle. Size $2" \times \frac{7}{8}" \times 1\frac{1}{8}"$ behind panel.

No. 18A1309 59c 10 @ 53c Special Each

HARD-TO-FIND MERCURY SWITCH BARGAINS



2 AMP SPDT MERCURY SWITCH

99c



HI-CURRENT HONEYWELL MERCURY SWITCH

\$1.69

Rated conservatively 10 amps 115 V. AC. $\frac{1}{2}$ " dia. x 2" L. 4" wire leads. SPST for timers, relays, flashers, etc. Wt. 5 ozs.

No. 18A1418. \$1.69 Special Each

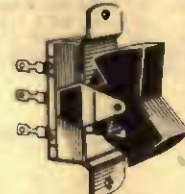
SLIDE SWITCHES



21c SPST
Each, 10 Lots

Small with black bakelite slide handle. Solder lugs. 1 amp @ 125 V. AC. Wt. 1 oz.

Stock No. Action Each 10 @ 100 @
19A7213 SPST 26c 21c 14c
19A7214 SPDT 28c 23c 14c
19A7216 DPDT 29c 24c 15c



DPDT ROCKER SWITCH
39c
EACH

Big savings on latest style compact rocker switches. Black button marked with white dot on one side.

Rated 3 amps @ 125 VAC. Mtg. centers $1\frac{1}{2}$ ". Overall size: $1\frac{1}{2} \times 1\frac{3}{8} \times \frac{1}{2}$ ". Made in U.S.A.
No. 18A1520. 39c 10 35c
Each 29c 1000 Each 26c

4PDT LEVER SWITCH



\$1.29

Positive acting for audio switching, speakers, telephones, model railroads, etc. Rated 3 amp @ 120 V. 2 screws on front for mounting. $2\frac{1}{2} \times 1\frac{1}{4} \times \frac{5}{8}$ " behind panel space. Shpg. wt. 8 oz.

No. 19A7190. Import Special **\$1.29**

POPULAR BAT HANDLE DPDT TOGGLE SWITCH
Bakelite enclosed. Chrome on-off plate. Rated 3 amp @ 125 V. $\frac{1}{8}$ " dia. x $\frac{3}{8}$ " L. shank. Wt. 4 oz.
No. 19A7192 10 Lots, Each **59c** Each **49c**

TOGGLE SWITCH PLATES.
Nickel plated steel with on-off markings. Use with standard $\frac{1}{8}$ " dia. mounting shafts.

19A7195-3c 10 For. 27c



DPDT TOGGLE SWITCH CENTER OFF



89c
Each 10 Lots

Bat handle, bakelite case, red and black on-off plate. Screw terminals. Rated 3 amp @ 250 V. 6 amp @ 125 V. Quality import. Wt. 4 oz.

No. 19A7191 10 Lots, Each **99c** Each **89c**

DPDT HEAVY DUTY PUSH-BUTTON SWITCH



\$1.49

Push on, push off. 125 volt 3 amp. Supplied with mounting ring nut and washer.

No. 19A7349—Black. \$1.49
No. 19A7350—Red.
Your Choice Each

MINIATURE PUSH-BUTTON SWITCH



39c

Tiny normally open momentary switch, single pole. Mounts in $\frac{1}{4}$ " hole, red button. Requires $\frac{3}{8} \times \frac{3}{8}$ " panel space, extends only $\frac{3}{8}$ " behind panel. Nickel finish, with mounting nut.
No. 18A1575 10 @ 33c Each

H&H LOCK SWITCH



URNS ON WITH REMOVABLE KEY
\$1.99

Prevents unauthorized operation of any electrical equipment. Fine for alarm systems, door openers, fixed and mobile transmitting equipment, etc. SPST. 3 amp @ 250 V., 6 amps @ 125 V. $\frac{1}{8}$ " dia. x $\frac{1}{8}$ " L. mtg. shank. U.L. approved. With key. Wt. 3 oz.

No. 19A7217 Special Each **\$1.99**
No. 19A7218. Extra Key. Each **22c**

MINIATURE MAGNETIC REED SWITCH



4 FOR **\$1.95**

Fantastic B-A special purchase. Would normally cost way over \$1.00 each. High sensitivity, small size. Only $1\frac{1}{4}$ " long overall X $\frac{3}{8}$ " dia. Glass length $1\frac{1}{4}$ ".
No. 18A1476. Special, 4 For **\$1.95**

FANTASTIC LOW PRICE ON RELAYS!

**SAVE OVER HALF
25 AMP 115 VAC RELAY**

REG. NET \$9.50

SPECIAL ONLY **\$4.69**



Big bargain on a high power relay! Hart-Advance No. WHU, DPDT plus one aux. SPST in series with the coil. Solenoid plunger type. Eight .250" quick disconnect terminals on power circuits and three 110" quick disconnect terminals on coil circuit. 8-32 threaded mtg. stud on side. 1 1/8" sq. x 2 3/8" H. Shpg. wt. 1 lb. No. 18A1559. Special Each **\$4.69**

SAVE 50%

COMAR ENCLOSED PLUG-IN RELAYS



\$4.95

3PDT, 10 amp contacts. Continuous duty. Clear plastic case 1 3/8" sq., 2 1/8" seated height. Fits 11 prong socket. Shpg. wt. 4 ozs. No. 18A1544. For 115 VAC No. 18A1545. For 12 VDC Choice Each **\$4.95** No. 12A1441. 77 MIP11 Socket. Ea. 31c

**115 VAC DPDT RELAY
REG. NET OVER \$4.00**



\$1.99

Molded phenolic terminal blocks, molded nylon bobbin, contacts 10 amp. 115 VAC. Solder lug connections, 6/32 mounting stud. 1 3/4" L. x 1 3/8" W. x 1 1/4" H. above mounting surface. Shpg. wt. 3 ozs. No. 18A1560. Each **\$1.99**

**GUARDIAN 115 VAC
PLUG-IN RELAY**



\$3.95

115 VAC coil. Has 3 sets of contacts: SPDT, SPST-NO and SPST wired NO but with back contacts so you can complete connection for SPDT easily. 10 amp contacts, continuous duty. 1 1/2" square, 2 1/8" seated height. Shpg. wt. 8 ozs. No. 18A1548. Each **\$3.95** No. 12A57. 11-Pin Socket. Each 33c

**BIG SAVINGS ON
POTTER & BRUMFIELD RELAYS**

.187 combination quick disconnect/solder terminals. Use as supplied, with plug-in sockets below or snap cover off for open relays with 6-32 tapped mounting hole. Size: 2 1/4 X 1 1/2 X 1 1/2". Shpg. wt. 3 ozs.



\$2.39

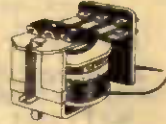
3PST 120 VAC. 5 Amp Contacts. Clear cover. No. 18A1584. 10 Ea. **\$1.99** Each **\$2.39** SPDT 6 VDC. 10 Amp Contacts. Yellow cover. No. 18A1583. 10 Ea. **\$1.79** Each **\$1.95** No. 19A1610. Sockets for above. Each 79c

115 VAC 3PDT RELAY

Exceptionally nice relay. 10 amp contacts have solder lug connections. Coil has 2" leads. 6-32 tapped mounting hole. 1 3/4 X 1 X 1 1/8" high. Shpg. wt. 3 oz.

\$2.99

No. 18A1585 6 Lots Each **\$2.99** 10 Lots Each **\$2.69**



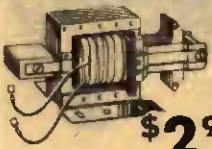
SAVE OVER HALF!

115 VAC SOLENOIDS



(1) Spring loaded plunger returns to open position. 1/2" stroke. Two 8-32 mounting holes. .187 quick disconnect terminals. 1 3/8 X 1 3/8 X 2 1/4" long overall. Made by Dormeyer. Shpg. wt. 8 ozs. No. 18A1587 10 Lots Each **\$1.29** 99c (2) Miniature solenoid, only 3/8 X 3/8 X 1 3/4" long. .187 combination quick disconnect/solder terminals. Tapped 6-32 mounting holes. Made by Dormeyer. Shpg. wt. 3 ozs. No. 18A1588 99c 10 Lots Each **89c** (3) Extra good quality "T" plunger with size 6 hole for coupling. Max 3/4" stroke. 1/4" disconnect terminals. Size: 1 1/4 X 1 1/8 X 2 1/4". Shpg. wt. 8 ozs. No. 18A1564 10 Lots Each **\$1.29**

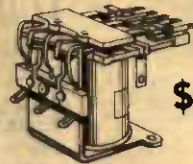
HEAVY DUTY 115 VAC PUSH-PULL SOLENOID



\$2.99

A massive, continuous duty solenoid rated at 15 lbs. max. Double action plunger for either push or pull operation. Laminated stack 1" thick 2 3/4" W. X 2 7/8" H. Overall height 3 1/8" with 4 hole mounting centers 2" square. Plunger is 6 1/4" overall length, with 1" max. pull or push. 8" leads with quick disconnect lugs. Shpg. wt. 3 1/2 lbs. No. 18A1542 10 @ Each **\$2.99** 10 @ Each **\$2.69**

**RBM SENSITIVE
DC RELAY**



\$1.99

Small size relay with 2 SPDT and 1 SPST crossbar contacts. Armature isolated from frame. 1200 ohm coil. Solder terminals. Two 4-40 mtg. holes. Size: 1 1/2 X 1 1/8 X 1 3/16" H. No. 18A1565 Spec. 10 @ Each **\$1.99** 10 @ Each **\$1.69**



**MERCURY WETTED
VERY HIGH SPEED
RELAY**

AT LEAST \$10.00 VALUE! **\$4.95**

Features billions of operations without contact wear or bounce. Used for telegraph keyers, teletype, etc. at up to 60 operations per second with utmost dependability. Coil 4000 ohms, 7.2 MA pull-in, 6.2 MA release. SPDT contacts 5 amps, 25 1/2" H. x 1 1/4" dia. Hermetically sealed. Octal base. C.P. Clare #HC1077. At a fraction of regular cost! 18C912 3 For **\$4.95** 3 For **\$10.00**

115 V. AC SOLENOID



99c

POPULAR SMALL SIZE Max. 55 oz. lift. 3/8" stroke. Intermitent operation. Frame size 2 x 1 1/4 x 1 1/2" H. Laminated armature positively positioned in frame. Mtg. flange removable. Wt. 1 lb. \$3.50 value. No. 18B308 Special Each **99c**

**PRECISION MINIATURE
SNAP ACTION SWITCH**



99c

Single pole, double throw for NO or NC uses. Only 3/4" L. X 1/2" H. and less than 1/4" (6 mm) wide. Actuates by direct 4 1/2 oz. pressure on pin type actuator. Travel is less than .010". Two mounting holes on 3/8" centers. No. 18A1540 10 @ **99c** 10 @ **89c** Each

**NEW MAGNETIC PROXIMITY SWITCH
CIRCUIT CLOSING WHEN MAGNET APPROACHES SWITCH**

ACTUATES FROM MAGNETIC FIELD NO MECHANICAL CONTACT REQUIRED



\$1.95

DEPENDABLE FAST OPERATING

Hermetically sealed glass tube contains precious metal contacts rated 15 watts. Max. 1 amp or 250 volts AC. Measures 2" long, 3/8" diameter with 3/8" leads. Magnet 1 1/2 x 3/8" square. Both easy to mount because of small size and light weight. Shpg. wt. 6 oz. No. 19A7193. Net Each **\$1.95** MINIATURE PROXIMITY SWITCH. Only 3/4" long, 3/8" dia. with 3/4" wire leads. Glass tube with 10 watt contacts. Maximum of 1/2 A. or 50 V. Miniature magnet included. Shpg. wt. 6 oz. No. 19A7194. Net Each **\$1.95**

**BA
BARGAINS!**

**RELAYS AND
SWITCHES**

**BRAND NEW
FULLY GUARANTEED**

**MINIATURE SPDT
SENSITIVE DC RELAY**



Only 3/4 x 1 x 1/8" H. 1 amp, 2.9 MA sensitivity. For electronic light controls, etc. Wt. 1 oz. 10,000 Ohms.

No. 18A1368. Special Each **\$1.69**

BIG SAVINGS!



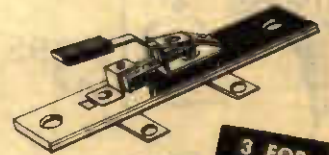
69c
EACH

**DPDT ROLLER
LEAF SWITCH**

Micro Roller Leaf. SPDT 15 amps @ 125 V. 1 1/2 x 1/4 x 1 1/2" H. Long life roller actuator with extended over-travel. Wt. 2 ozs.

No. 18A1597 69c 10 Each 59c Special Each

**10 AMP 115 VAC
SWITCHES**



**3 FOR
99c**

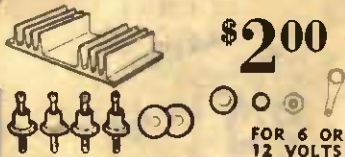
Requires very little pressure to operate. Open construction. 2 1/8 x 3/4 x 3/4" overall size. 1 3/4" mtg. centers. Made in U.S.A. by Cherry. Solder terminals. No. 18A1552. 3 For **99c**

BA BARGAINS!

**POWER SUPPLIES,
BATTERY-CHARGERS**

**BRAND NEW
FULLY GUARANTEED**

BATTERY CHARGER KIT



\$2.00

FOR 6 OR 12 VOLTS

Amazing low price! Top quality parts to build a compact, dependable charger for 6 or 12 volt batteries. For full wave rectification using filament or similar transformers of your choice. Kit Contains 4-2 amp stud mtg. rectifiers, mounting kits for rectifiers, 3 x 3 1/2" heat sink and instruction sheet.

No. 20A1200
Special Each **\$2.00**

MIDLAND INTERNATIONAL CORPORATION

AC ADAPTORS

LOW CURRENT DRAIN...

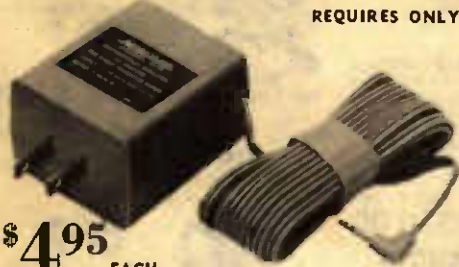
REQUIRES ONLY PENNIES TO OPERATE

CONVERTS:

RADIOS,
TAPE RECORDERS,
WALKIE-TALKIES,
PHONOS AND
OTHER LOW POWER
6, 9 OR 12

VOLT BATTERY
OPERATED DEVICES!

FOR 6, 9 OR 12 V.
RADIOS, ETC.



\$4.95
EACH

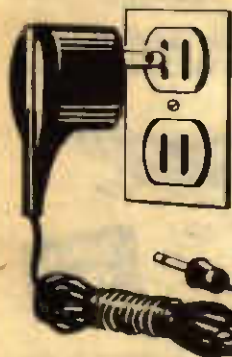
SIMPLY PLUG-IN IN PLACE OF BATTERIES — OPERATES ON 117 VOLT AC

Operates transistor radios, walkie-talkies, tape recorders and other devices from 115 V. AC. Regulated exact output voltages. Reliable noise-free operation. Simple to use—just plug adaptor into wall outlet and equipment. Requires no change in your equipment—unplug adaptor for portable use. Cable has miniature phone plug on end. Wt. 3/4 lb.

No. 13A8007—6 V. Output
No. 10A3030—9 V. Output
No. 10A3021—12 V. Output

YOUR CHOICE **\$4.95**
EACH

6 VOLT RADIO POWER FROM YOUR WALL OUTLET



\$3.95

Save battery costs! Powers 6 volt radios and other low current operated devices from your 115 VAC outlet. Simply plugs in. With 6 ft. cord and miniature phone plug. UL listed. Shpg. wt. 1 lb.
No. 18A1479. Special Each **\$3.95**

AC CHARGER FOR NI-CAD BATTERY

\$1.99

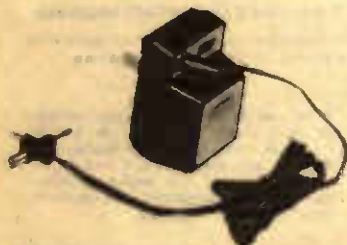


Tiny self-contained unit operates from 115 V. AC providing proper float charging rate for a 1.2 V. Ni-Cad battery cell. Made for continuous duty use. Provides utmost economy of operation for all kinds of battery powered devices, flashlights, electric toothbrushes, radios, recorders, hobby equipment, etc. Charging current 50 MA, for 1 ampere hour battery. Charger size 2x1 3/8x1 1/8". Wt. 4 ozs. No. 18A1336. **\$1.99**
Special Each

CHARGER FOR 2 NI-CAD BATTERIES. Requires series connection of batteries. Size 1 1/2" sq. x 2" long. Charging current 100 MA. For 2 ampere hour or larger battery. Wt. 4 oz. 18B343. Limited quantity. **\$2.49**
Each

6 - 7 1/2 - 9 VOLT ADAPTOR

\$4.95



Eliminates the use of batteries in cassette and cartridge recorders and other battery operated units. Adaptor plugs into 117 V. outlet. Switch selects 6, 7 1/2, or 9 volts. 320 MA output. Polarity reversing connector. Not recommended for small radios or other devices with low power consumption. 3 way connector has miniplug, sub-miniature plug, and coaxial jack. Size: 2 1/4 x 1 3/4 x 2 1/4" (with prongs). Shpg. wt. 8 oz.
No. 13A8052. Each **\$4.95**

NEW LOW PRICES!

TRANSISTORIZED 6-9-12 V. DC @ 1 AMP

UNIVERSAL POWER SUPPLY



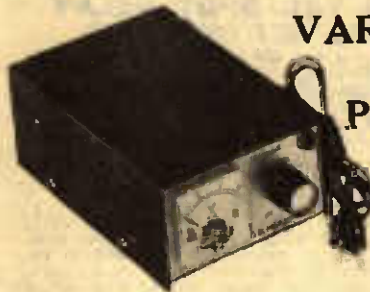
100's SOLD
AT \$19.95

NOW. **\$16.50**

Provides well-filtered DC power from 115 V. AC line. For use with all kinds of battery powered transistor equipment, radios, intercoms, tape recorders, record-players, amplifiers, tuners, transceivers, experiments, etc. Input 115 V. AC 60 Hz. Metered output switches to 6-9-12 volts. Heavy duty metal case 6 x 3 1/2 x 2 1/2". Wt. 3 lbs.
No. 13A8009. Top Import Value! Special Each **\$16.50**

VARIABLE VOLTAGE SOLID STATE POWER SUPPLY

0-15 V. DC @ 1.5 AMPS.



\$34.95

Highly reliable power for every conceivable type of solid state device. Output voltage selected by front control. Meter indicator output voltage. Has pilot light, fused output with binding posts which accept phone tips or banana plugs. Housed in attractive black metal case with aluminum front panel. Top quality components and workmanship throughout. Size 2 1/2 x 4 x 7" D. Shpg. wt. 3 lbs. **\$34.95**
No. 13A8000. Top Import Value. Each

SAVE ON BATTERY COSTS WITH THESE HANDY DRY CELL BATTERY CHARGERS!

EVERY HOUSEHOLD SHOULD HAVE ONE

RECHARGES BATTERIES FOR:

- FLASHLIGHTS
- RADIOS
- RECORDERS
- CAMERAS
- TOYS

FAMOUS "DYNAMIC" PLUG'N'CHARGE HOME BATTERY CHARGER

Operates from any AC outlet. Recharges "weak" batteries, 4 batteries at one time, size D, C, AA or 9 V. transistor; carbon-zinc, alkaline, nickel-cadmium or mercury types. Safe operation on 115 V. AC with interlock lid. Wt. 2 lbs. **\$5.95**
No. 13A8013. Each



\$5.95

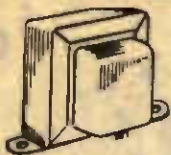
NOW USE YOUR BATTERIES LONGER— RECHARGES 1 TO 14 AT ONE TIME!

New "Comet" charger plugs into AC socket. Has built-in battery test light to find dead cells. Molded recesses handle up to 4 D cells, 4 C cells, 6 pen cells and 1 9V transistor battery. Will "fresh up" most batteries in 1 to 2 hours, charge them fully in 12-16 hours, providing batteries are not dead and inactive. Completely dead cells cannot be rejuvenated. Very well made, molded plastic. Size 7 3/8 x 4 1/2 x 2 3/4". For 115 V. AC operation. Wt. 2 lbs. **\$7.49**
No. 13A8012. Net Each



\$7.49

ENORMOUS SAVINGS! MIDGET POWER TRANSFORMERS



ALL HAVE
115 V. AC
PRIMARY

115 V. @ 100 MA. Separate filament 6.3 V. CT @ 3.5 A. 2 3/8" x 3 1/8" x 2 5/8" H. Mtg. centers 3 5/8".
18A1386 Wt. 2 1/2 lbs.
Special Each **\$4.99**

120 V. @ 70 MA Sec. Isolated center tapped filament 6.3 V. @ 2 amp. Size 2 1/4" x 2 1/2" x 2 1/4" H. Mtg. ctrs. 3 1/8". Shpg. wt. 2 lbs.
13B476 10 Lots **\$3.69**
Special Ea. **\$3.99** Each...

FILAMENT TRANSFORMERS AT BIG SAVINGS



AS LOW AS
\$1.99



ALL HAVE 117 V. 60HZ. AC PRIMARIES

① 6.3 V. @ 1.5 AMPS
Size 2 x 2 3/8" with 3" mtg. ctrs. Wt. 1 1/4 lbs.
No. 13A967. Japan Each **\$1.99**

① 12.6 V. @ 2 AMP
Size 2 x 3 1/4 x 1 3/4" with 2 1/2" mtg. ctrs. Wt. 2 lbs.
No. 13A243. Special Each **\$3.59**

① 6.3 V. @ 3 AMPS
Size 1 7/8 x 1 3/4" with 2 7/8" mtg. ctrs. solder lugs. Wt. 1 lb.
No. 13A968. Special Each **\$2.79**

① 24 V. @ 1 AMP
Size 2 1/8" x 2 3/8" x 2" H. with 2 7/8" mtg. ctrs. Wt. 2 lbs.
No. 13A970. Special Each **\$3.75**

① 12.6 V. @ 1 AMP
Tapped @ 6.3 V. Size 1 1/2" x 1 1/2" x 1 5/8" H. with 2 1/2" mtg. ctrs.
No. 13A969 Wt. 1 1/2 lbs.
Import Special **\$2.88**

(2) 24 V. @ 2 AMP. Size 2 5/8" x 2 1/4" x 2 1/4" H. with 3 1/8" mtg. ctrs. Wt. 2 1/2 lbs.
No. 13C501. Special Each **\$4.99**



MIDGET FILAMENT
6.3 V. @ .75 A

6.3 V. @ .75 Amp. 117 V. 60 Hz AC primary. Fine for equipment using 1 or 2 tubes. Only 1 5/8" x 1 1/8" x 1 3/8" with 2" mtg. ctrs. Wt. 6 ozs.
13A971. 10 Lots **\$1.49**
Spec. Ea. **\$1.69** Each

48 VOLT CT
1 AMP
\$3.99



BA special purchase saves you money. Perfect for solid state power supplies. 115 VAC primary. Highest quality continuous duty. 19" Insulated leads. Size: 2 1/2" x 2" x 3" H. Wt. 2 1/2 lbs.
No. 18A1460 10 Lots **\$3.69**
Each **\$3.99**

BIG SAVINGS ON OUTPUT TRANSFORMERS



For 50L6, 50B5, etc. 2500 ohms to 3-4 ohms V.C. 1 3/4" mtg. centers. X 1 1/4" H. X 3/8" thick core. Wt. 1/2 lb.
No. 18A888. 10 Lots **59c**
Special Each **49c** Each



For P.P. 6V6, ECC82 10 W. Class AB1. Matches 4, 8, 16 ohm speakers. Open frame, size 2-5/16 X 1 3/4 X 1-7/8" H. Mtg. ctrs. 2-13/16". Shpg. wt. 2 lbs.
No. 13A862. Special Each **\$3.49**

FILTER CHOKES AT BIG SAVINGS!

A rare find, bargain priced. Perfect match for use with transformers as above rated to 30 MA. DC resistance 100 ohms. Only 1 x 3/4 x 3/4" with 1 1/8" mtg. ctrs. Shpg. wt. 8 oz.

No. 18A959 10 Lots **39c**
Spec. Each **33c** Each

MIDGET FILTER CHOKES

39c



5.5 HY., 50 MA. DC resistance 300 ohms. Strap mtg. base. Size 1 1/2" x 1 3/8" H. with 2" mtg. ctrs. Wt. 1 lb.
No. 13A460. Special Each **\$1.99**

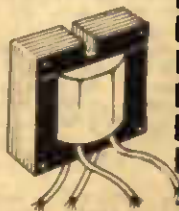
7 HY., 150 MA. DC resistance 200 ohms. Strap mtg. type. Size 4 x 2 1/4 x 2 5/8" H. with 3 1/2" mtg. ctrs. Req. net value over \$4.00
No. 13A239. Wt. 2 lbs. Special Each **\$3.99**

BA BARGAIN SPECIAL!

24 VOLT HONEYWELL TRANSFORMER **99c**

Costs more to make than our low price! Extra high quality. Limited Quantity—special purchase. 1/2 amp continuous duty. Varnish impregnated. Just right for making solid state power supplies, signal devices, etc. 2 1/4" x 1 7/8" x 1 3/8". 117 V. Primary. Wt. 3/4 lb.
No. 18A1326 10 @ **99c**
Special Each **89c**

BUY PLENTY WHILE THEY LAST!



VARIABLE VOLTAGE REGULATOR

FROM 0 TO 130 VOLTS @ 5 AMPS



\$18.95

Output is variable from 0 to 130 volts. Input is 115 volts 60 Hz at 5 amps. Current ratings apply over full range of output voltage. Shpg. Wt. 8 lbs.
No. 13A988. Import Special. Each **\$18.95**

BA BARGAINS!

TRANSFORMERS AND CHOKES

BRAND NEW FULLY GUARANTEED

TRANSISTOR POWER SUPPLY TRANSFORMERS



① For 9 V. DC supply. Add rectifier and 500 mfd. or larger filter. Will power transistor radio, small amplifiers, etc. from 115 VAC. 7 VAC at 100 MA sec. Size 1 1/4" H. x 1 1/8" W. x 1 3/4" mtg. ctrs. No. 18A1365. Special Each **99c**

② 20 V. @ 30 M.A. 1 1/2" H. x 1 1/2" x 1 1/4" x 1 1/2" mtg. ctrs. Wt. 3 ozs. No. 18A1475. 10 Lots **\$1.19**
Each **\$1.39**

③ 20 V. CT @ 1 Amp. with printed circuit mounting tabs and 1/2" leads. 1 3/8" H. x 1 3/4" x 2" Wt. 1 lb. No. 18A1477. Each **\$1.49** 10 Lots **\$1.29**
Each

④ 28 V. CT. @ 1 Amp. 2 5/8" H. x 2 5/8" x 2 1/4". Shpg. wt. 3 lbs. No. 18A1489. 10 Lots **\$3.49**
Each **\$3.69**

⑤ 30 V. CT @ 1 Amp. 2" H. x 2 3/8" W. 2 1/8" mtg. centers. Wt. 2 1/2 lbs. No. 13A987. 10 Lots **\$4.69**
Each

⑥ 30 V. CT. @ 2 Amp. 2 1/4" H. x 2 3/4" W. 3/8" mtg. ctrs. Wt. 3 lbs. No. 13A986. 10 Lots **\$5.49**
Each

⑦ 30 V. CT @ .5 Amp. Size 2 1/4" H. x 2" x 2 1/8". Shielded construction mounting centers 2-3/8". For 115 VAC. Shpg. wt. 2 lbs. No. 18A1532. Each **\$2.99**

⑧ 35 V. CT @ 1 Amp. 2 5/8" H. x 2 5/8" x 2 1/4" Shpg. wt. 3 lb. No. 18A1488. 10 Lots **\$3.69**
Each

⑨ 40 V. CT @ 1/2 Amp. 2 3/8" H. x 2" x 1 3/4". 2 1/2" Mtg. Ctrs. Shpg. wt. 1 lb. No. 18A1487. 10 Lots **\$2.69**
Each

24 VOLT .3 AMP TRANSFORMERS

B-A's best selling transistor power transformer. Top quality. These are made to B-A's rigid specifications by a leading American manufacturer.

Fully encased, continuous duty type. Rated 3 amps with fully isolated 115 V. 60Hz. AC primary. Size 1 3/8" H. x 1 1/2" W. 2" mtg. ctrs. Wt. 6 ozs.

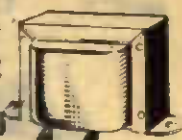
No. 13A903. 10 Lots **\$1.69** 100 Lots **\$1.29**
Special Each **\$1.89** Each

Same as above except has center tap on secondary. No. 13A861. 10 Lots **\$1.99** 100 Lots **\$1.79**
Special Each

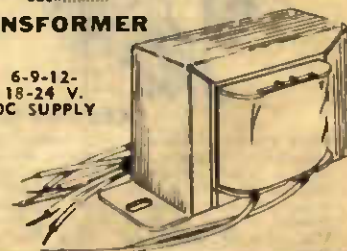
MULTIPLE VOLTAGE TRANSFORMER

Husky 1 amp. transistor power supply transformer. Will furnish 6, 9 or 12 VDC after full-wave rectification; 12, 18 or 24 VDC after half-wave rectification. Secondary has center tap. Primary 115 VAC. Exceptionally well made, nylon bobbin construction. Best transistor supply transformer we've seen! 3" mounting centers. Size 2" H. x 2 1/2" W. x 2" D. Shpg. Wt. 2 lbs. No. 13A902. Terrific Import Value **\$4.99**

6-9-12-18-24 V. DC SUPPLY



BIG SAVING!



B-A SPECIAL PURCHASE!

4 AMP 26 VOLT C.T. TRANSFORMER

Heavy duty transformer just right for building 12 volt power supplies for auto tape players, CB equipment, chargers etc. 115 V 60 Hz AC primary. 26 VCT @ 4 amp secondary. 3 3/8 x 2 3/4" High. Mtg. centers 2 3/4" x 2. Shpg. wt. 4 lbs. Made in USA.

No. 18A1525. 10 Lots **\$5.99**
Each **\$5.49**

\$5.99
EACH

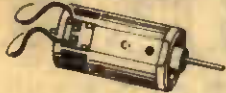


BA BARGAINS!

MOTORS AND COUNTERS

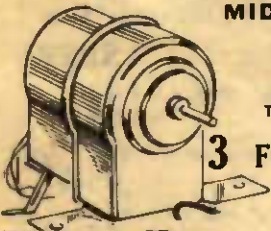
BRAND NEW FULLY GUARANTEED

HI-TORQUE SLOT CAR MOTOR



3 FOR 99c

Operates on 12 volts DC @ 9000 RPM. 1 1/8" x 7/8" dia. Shaft 3/32" x 7/16" long. Shpg. wt. 9 ozs. No. 18A1481. Special 3 For 99c



MIDGET REVERSIBLE DC MOTOR

POWERS MODEL CARS, BOATS, TOYS, Etc

3 FOR 99c

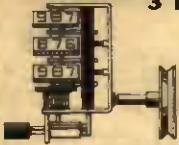
Operates from 1 1/2 to 6 V. dry cell batteries. High torque, PM type. 1 1/2 x 1 1/2 x 1 3/8" H. Shaft 3/32" dia. x 1/8". Wt. 10 oz. No. 18B379. Special 3 For 99c

12 \$3.49

MOTOR SPEED CONTROL

Top quality speed control for motor driven models, hobby tools, sewing machines, etc. Screw type terminals. Use with 115 V. motors. Size: 3 3/8" W. x 5 5/8" L. x 2 1/2" H. No. 19A7273. Each \$2.29

3 DIGIT COUNTER WITH RESET



99c EACH

Very high quality 0 to 999 tape recorder readout device. Low friction drive, 1" dia. pulley. 16 revolutions turns first digit wheel 1 full revolution. Approx. 1 x 1 1/2 x 2" deep. 18A1371 Spec. Each 99c



REPEAT CYCLE TIMER

Most versatile repeat cycle timer. Ideal for life testing of components for advertising displays, time lapse photography, model animation, anywhere a regular repetitive on-off switch is needed. Adjustable cam easily set without tools to produce a pulse (either "off" or "on") from 1 second to 59 seconds in length. Pulse repeats every minute. Instrument quality hysteresis motor, extremely low noise level. High quality snap action switch rated 10 amp 115 VAC. Overall size: 1 3/4" W. x 2 3/8" H. x 1 1/8" D. Mounting centers 1 3/8". Wt. 1/2 lb. No. 41A4053. Each \$12.95

REPEAT CYCLE TIMER KITS

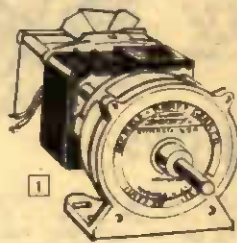
Like above except supplied with 6 machined cams for specific time intervals, 1 adjustable cam and 3 blank cams. Blank cams are easily cut for your custom designed timing intervals. Changing cams is easy, back-off thumbscrew and insert desired cam.

1 RPM TIMER Gives timing pulses of 2, 3, 5, 10, 15 & 30 seconds on and off with machined cams plus other intervals with adjustable cam and blank cams. No. 41A4055. Each \$16.95

3 RPM TIMER Gives timing pulses of 3/5, 1, 1 1/5, 3/5, 5 & 10 seconds on and off with machined cams plus other intervals with adjustable cam and blank cams. No. 41A4054. Each \$16.95

Each

SPECIAL PURCHASE SAVINGS ON GEAR DRIVE MOTORS



(1) MERKLE-KORFF EXTRA RUGGED GEAR MOTOR. 6 RPM. CCW Rotation. Very high quality. Fully enclosed die-cast gear case, shaded pole motor. Removed from equipment, in excellent condition. 115 V. 60 Hz. AC. Frame size approx. 3 1/2" dia., 4" long. 5/16 x 1/2" long shaft. Wt. 3 lbs. Supply limited. No. 18A1429. Each \$4.95

(2) 35 RPM GEAR MOTOR. VERY HIGH TORQUE. 115 V. 60 Hz. fractional horsepower shaded pole motor with permanently lubricated enclosed gear train. Great for rock tumblers, barbecue spits, displays, models and hobby work. Small size for its terrific power, only 2 3/4" X 2 1/4" X 3" H. 1/4" dia. X 1" long shaft. Beautiful design and construction. Wt. 2 1/2 lbs. New. While Limited Supply Lasts No. 18A1321. Each \$4.95

13 RPM REVERSIBLE MOTOR

\$6.95



A very high quality Merkle-Korff capacitor run gear type motor, reversible by switching a capacitor lead from one side of the 115 VAC line to the other. Perfect for displays, models, hobby work, etc., this motor develops a very high torque.

Die-cast gear case. Permanently lubricated gears drive the 3/8" diameter, 1-3/8" long shaft at 13 RPM. Heavy duty motor has 2 1/2" nylon fan on back of shaft for efficient cooling. Gear case is 2-7/8" X 3 3/4", motor and gear case are 3-7/8" long. Motor has 8" color coded leads. 6 uf capacitor and connection diagram are included. Shpg. wt. 4 lbs. No. 18A1582. Each \$6.95

NEVER PRICED LOWER!

G.I. 4-POLE CHANGER & RECORDER MOTOR



Shaded pole induction type, for 115 V. 60 Hz. AC. 1/70 HP cont. duty 1740 RPM. Has plenty power for all sorts of devices... quiet fans, tape recorder-player mechanisms, record turntables, displays, etc. Double 3/8" x 7/8" shaft with 2 step pulley attached suitable for round or small V belts. Size 3" below shaft x 2 7/8" square. Wt. 3 lbs. No. 18A1356. Special Purchase Value \$2.95

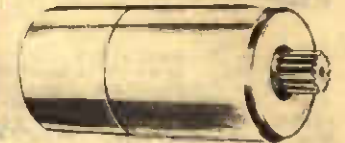
WORTH MANY TIMES OUR PRICE!

MINIATURE MOTOR ASSORTMENT



6 ASSORTED FOR \$1.59

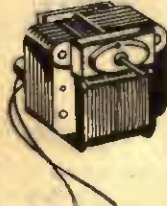
Assorted styles. Operates on 3 to 6 volt dry cell batteries or DC power supply. Midget reversible types. Shpg. wt. 1/2 lb. No. 18A1493. Special 6 Assorted For \$1.59



PRECISION MINIATURE DC MOTOR

FACTORY COST WAS SEVERAL TIMES OUR LOW PRICE!

Perfect Power for Slot Racers
Permanent magnet field. For race car models and other motor powered devices. 12 to 16 V. DC, developing higher power and speed as voltage is increased. Ball race bearings. Output gear approx. 1/8" dia. with 12 teeth mates perfectly with hobby type crown drive gears. Case 1 1/4" dia., 1 3/4" long. American made. No. 18CB03. Special Each \$3.95



GIVE AWAY LOW PRICE!

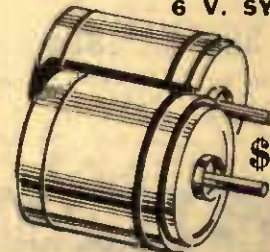
\$1.95

SHADED POLE INDUCTION MOTORS

Beautifully built 3200 RPM Barber-Coleman motors. Have 15/16" laminated stack and are designed for noiseless continuous duty operation 1/8" diameter shaft is 3/4" long. Bronze sleeve bearings with oil wick for shaft lubrication. 10/32 tapped spacers on 2" centers on back of motor provide mounting to a flat panel. For 110 VAC, 60 Hz. 2-5/8" W. X 2-3/8" H. X 2" D. plus shaft. Shpg. wt. 2 lbs. No. 18A1529. Clockwise Rotation No. 18A1530 Counterclockwise Rotation Each \$1.95

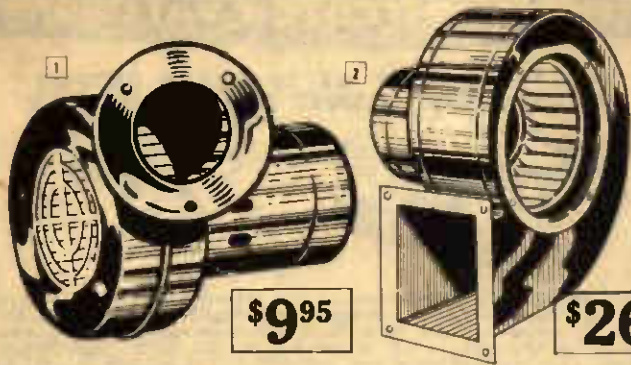
MINIATURE 6 V. SYNCHROS

LOWEST PRICE EVER!



\$3.95 PER PAIR

Miniature size for antenna direction indicators, for home-made weather instruments, experimenting, etc. Units are used in pairs, one at the source, the other at the remote indicating position. 5 wire interconnecting cable required. The shafts will remain precisely in step when external rotation force is applied to the shaft of the source unit. Made by Bendix for aircraft equipment. Designed for 26 V. AC @ 400 Hz. use. Works efficiently from 6 V. AC @ 60 Hz. Wiring diagram included. Size 1 1/2" x 1 1/2" shaft 1/8 x 1/4" long. 18B348. Shpg. wt. 1 lb. Per Pr. \$3.95 13A971.6.3 V. AC Transformer. \$1.69



WHOPPING SCOOP VALUES!

115 VOLT AC BLOWERS

FOR COOLING, DRYING, VENTILATING, EXHAUSTING, ETC.

\$9⁹⁵

\$26⁹⁵

High quality, dependable, efficient, quiet-operating blowers. Have shaded pole induction type motors; smooth-running Torrington wheels; well designed glossy black enamel housings. Fine for photo dark-rooms, forced ventilation of appar-

atus, forced draft to fumaces, exhausting bad odors or harmful vapors in kitchen, lab, etc., cooling of tubes and equipment plus hundreds of other useful home, shop, or industrial applications. All are 115 V. 60 Hz. AC.

Stock No.	Illus.	Air Cap. CFM	Free Air RPM	Full Load Amps.	Wheel Diam.	Intake Diam.	Outlet	Flange	Overall Size (Less Flange)			Lead Length	Wt. Lbs.	Spec. Each
									H.	W.	D.			
41A4002	(1)	15	3160	0.21	2"	1 1/2"	1 1/2" Rad.	2 1/4" Rad.	3 3/8"	4 1/2"	3 1/2"	12"	2 1/2	\$9.95
41A4003	(1)	100	2870	0.74	3 1/2"	3 1/2"	2 1/2" Rad.	4 1/2" Rad.	5 1/2"	6 1/2"	6 1/2"	12"	3 1/4	12.95
41A4004	(1)	140	3020	1.02	3 3/4"	3 1/2"	2 1/2" Sq.	5 1/2" x 3 1/2"	7 1/2"	6 3/4"	6 3/4"	6"	3 3/4	14.95
41A4005	(2)	825	1570	3.25	6 1/2"	5 1/2"	5 1/2" x 1 1/2"	6 1/2" x 3 1/2"	11 1/2"	9 1/2"	10 1/2"	12"	11	26.95

BA BARGAINS!

FANS AND BLOWERS

BRAND NEW FULLY GUARANTEED

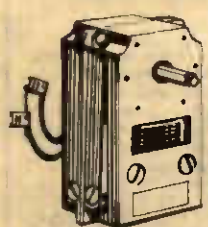
4 1/2 INCH "MUFFIN" STYLE FAN



MADE BY PAMOTOR

\$8⁸⁸

10 RPM - 115 VAC GEARLESS MOTOR

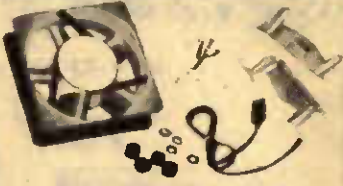


WHILE THEY LAST!

\$3⁹⁵ SPECIAL

Has more Torque than any gear motor of similar size we've seen! Runs extremely quiet and smooth. Clockwise rotation. 3/16" square shaft extends 1/2" from housing. Size 3 1/4 x 8 1/2 x 1 1/2". Shpg. wt. 2 lbs.

Hurry! Limited Quantity. No. 18A1474. Special Each... **\$3.95**
10 Lots Each **\$3.69**



NOISELESS 4-INCH HI-FI "BOXER" FAN

Genuine "Boxer", made by IMC Magnetics Corp. Engineered specifically to cool and ventilate enclosures for amplifiers, tuners, etc. Operates with a minimum of noise. Comes with mounting kit, vibration damping grommets, new self-adhesive easy mount and AC cord for wiring into equipment power switch. Can be installed to pull in or expell air or simply blow across components. Frame size: 4 1/2" sq. x 1 1/2" deep. No. 41A4047. Wt. 3 lbs. **\$14.95** Net Each

6-INCH VENTILATING FAN

\$3⁹⁵



Circulates 400 CFM. Powered by Fasco type 21 motor designed especially for ventilation and exhaust fans. Precision, open frame shaded pole, 1800 RPM motor with bronze bushings.

One piece Torrington stamped aluminum blades with Allen hex screw. Motor 3 1/4" dia. Overall length 4". For 115 V. AC. Shpg. wt. 2 lbs. No. 18A1293. Special Each... **\$3.95**

SUPER LOW PRICE!

5 blade fan delivers 115 cfm of air quietly and without vibration. All metal construction. 4 11/16" square, 1 1/2" depth. Frame has 4 mounting holes on 4 1/2" centers. Use for exhaust or intake of air in sound systems, power supplies, office machines and for cooling any other electronic equipment. Solder terminals. For 117 V. 50-60 Hz. 19 W. made by Pamotor. Shpg. wt. 2 lbs. No. 18A1576. Special Each... **\$8.88**

B-A SPECIAL PURCHASE BARGAIN!

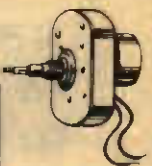
110 VOLT 60 Hz. CLOCK MOVEMENTS

Accept standard clock hands for seconds, minutes and hours. Precision motor movements can be used to build your own clock or any use where you want a slow quiet motor. Size 2 1/2 x 1-13/16 x 1 1/4" deep (less shaft). 6" wire leads.

No. 18A1502. 1 1/8" shaft, Front Time Set
No. 18A1568 1 1/8" shaft, Back Time Set
No. 18A1501. 15/16" shaft, Front Time Set
No. 18A1503. 15/16" shaft, Back Time Set
Your Choice **\$1.29** 10 @ **99c**
Each

WORTH SEVERAL TIMES OUR LOW PRICE!

\$1²⁹



TIMING MOTORS \$1⁹⁵

Precision type as used in clocks, timers, etc. Overall size 2 1/4 x 2 1/4 x 1" D. behind shaft. Operates on 120 V. 60 Hz. AC. Shpg. wt. 1/2 lb. No. 18A1586. 1 1/2 RPM. No. 18A1454. Bristol 2 RPM

Choice **\$1.95** 10 Lots, **\$1.75** Each



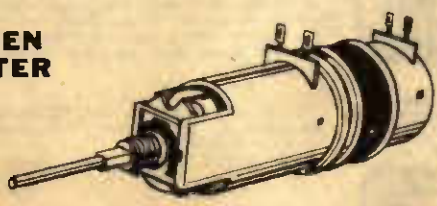
LOUD OC BUZZER

Works on 4-16 volts D.C. Use wherever an attention getting signal is desired. 2" Dia. 1 1/8" thick. Single screw mounting. No. 18A1572 **\$1.69** Each



MOTOR DRIVEN POTENTIOMETER

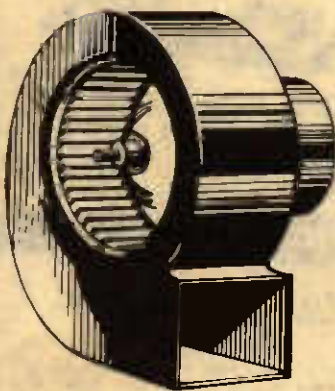
\$3⁹⁵



Electrically reversible geared shaft motor drive unit. Rotates 300° lock to lock, easily converted to full 360° rotation. Use for remote control tuning devices, remote control panning device drives, and other applications. Motor unit is completely insulated and isolated from the output shaft and potentiometer. High torque, built-in clutch to protect gear assembly. Millisecond directional change capability with starting capacitor, reversing switch and schematic to show operation from 117 VAC. Standard 3/8-32 brass bushing. Size: 1 7/8" Dia. 5 3/8" overall length. 1 3/8" shaft. Shpg. wt. 1 lb. No. 18A1465. **\$3.95** Each

B-A SPECIAL PURCHASE BARGAIN!

COMPARE AT **\$14.95**



DAYTON BLOWER

\$7⁹⁵

150 CFM 1500 RPM Blower. Maximum efficiency in quiet air delivery. Widely used in heating, ventilating, exhausting, cooling, etc. Direct drive motor. 5" intake wheel. 3 x 3" outlet. 9 1/4 x 7 1/2 x 4 1/4" overall size. Black finish. Full load .7 amps. 115 VAC. 6" leads. Shpg. wt. 4 lbs. No. 18A1514. Special Each... **\$7.95**

BA BARGAINS!

**EXPERIMENTERS
& BUILDERS**

**BRAND NEW
FULLY GUARANTEED**

RECORDING LEVEL METER



\$2.45

Can be added to most recorders. Far better than usual neon type indicator for showing proper signal to make good recordings. Meter has basic movement of 0-1 MA. In plastic case, size $\frac{3}{4} \times \frac{3}{4} \times \frac{3}{4}$ " deep. Supplied with meter rectifier. Wt. 6 oz. **\$2.45**
No. 18A1396. Special Each.

EXCITING METER VALUES!



MINIATURE PANEL METERS

\$5.49

**ONLY 1 3/8" SQUARE
LATEST MODERN DESIGNED
CLEAR PLASTIC CASES**

Standard D'Arsonval moving coil type with zero set. Mounts in front or behind panel in $1\frac{1}{2}$ " diameter hole. Silvered dial and black numerals. Precision quality import. At least a 50% savings. Wt. $\frac{1}{2}$ lb.

Stk. No.	Type	Each	Stk. No.	Type	Each
35A6168	0-1 DC Milliamps	\$5.49	35A6170	0-100 DC Microamps	\$6.95
35A6169	0-50 DC Microamps	\$6.75	35A6171	"S" Meter Cal. 0-9	\$5.49

VOLUME LEVEL (VU) METER. Calibrated in db's. and percentage. **\$6.95**
No. 35A6172 Net Each.

POPULAR 2-IN. EDGEWISE TYPE

\$4.35

Precision moving coil instruments with zero set. Beautifully constructed, top quality throughout. Excellently shielded against magnetic fields. Scales calibrated black on bright metal with red pointer. Body molded plastic with clear plastic front. Mounts in $\frac{3}{8} \times 1\frac{3}{8}$ " rectangular hole. Wt. 2 oz.



35A6173. 0-1 DC Milliampers. Ea. **\$4.35**

SPECIAL PURCHASE BARGAINS!

DUAL MOVEMENT 200 MICROAMP METER

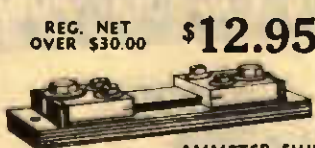
\$5.95



Ideal for Stereo Balance, Recording Levels, Forward and Reflected Power. Has Many Experimental Applications

Square 3" clear plastic case, 1 black pointer for "left" scale, 1 red pointer for "right" scale. Finest D'Arsonval movements. By matching pointers stereo levels are easily and perfectly adjusted. Full scale sensitivity 0.5 volts DC. Mounts in $2\frac{3}{4}$ " hole. No. 18A1366 **\$5.95**
Special Each

PAIR OF METERS FOR BATTERY CHARGERS OR DC POWER SUPPLY



REG. NET OVER \$30.00 **\$12.95**

VOLTMETER.

AMMETER

AMMETER SHUNT

2 meters and shunt. Highest industrial quality meters worth over three times our price. Meter ranges 0-50 DC volts and 0-80 DC amps. Ammeter is supplied with accurate 50 MV shunt allowing remote indication of high current circuits. Round 3" case style, hermetically sealed construction. By Marion and Roller Smith. Shpg. Wt. 3 lbs. **\$12.95**
No. 18A1420. While limited supply lasts, All For.

B-A SUPER BARGAIN VALUE!

3.6 MFD. 5000 VOLT FILTER CONDENSER HIGH CAPACITY—SMALL SIZE



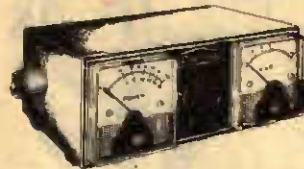
**SIMILAR RATED
CONDENSERS
COST OVER \$35.00**

\$6.95

New production surplus from modern space age projects. Very small size for voltage and capacity rating. Ideal high capacity filter for HV supply on linear RF power amplifiers. Case only $2\frac{1}{4} \times 2\frac{3}{8} \times 4\frac{1}{8}$ " H., with handy mtg. brackets attached to sides. Shpg. wt. 2 lbs. No. 18A1441. **\$6.95**
Special Each

BEST CB TESTER VALUES!

SWR AND POWER METER READS OUTPUT AND REFLECTED POWER SIMULTANEOUSLY



\$23.95

A highly efficient meter. Reads output and reflected power at the same time. Easy-to-read heavy black numbers scaled for quick, exact readings. Can be used for reference power meter. Dual 100-microamp meter movements. Low insertion loss. May be left in line, up to 2000 watts. Good through 175 MHz. Gray enameled metal case. Size: $4\frac{3}{4}$ " L. X $2\frac{1}{4}$ " H. X $2\frac{1}{2}$ " D.

No. 10A3046.
Each

\$23.95

IMPORT SPECIAL

\$9.99



R. F. Field Strength Meter

Makes transmitter or antenna tuning quick and easy. Gives positive indication of radiated signal on sensitive microammeter. Has sensitivity adjustment, collapsible antenna. Includes crystal earphone for monitoring transmitter speech quality. Requires no battery. In gray enameled case $2\frac{3}{8} \times 1\frac{3}{8} \times 3\frac{1}{8}$ " H. Magnet in bottom holds tight to any steel surface.

No. 10A3019. **\$9.99**
Special Import Value.

SWR-RF POWER METER

\$12.95



Uses the same perfected design principles found in expensive instruments. Exceptionally well constructed. Measures relative power output and % reflected power on 52 ohm coax line. Transmitter output can be monitored continuously by leaving in circuit. Simple to use. Scale calibrated in SWR. Size $4\frac{3}{4} \times 2\frac{1}{4} \times 2$ "
No. 10A3018. **\$12.95**
Special Import Value.

AMPHENOL COAXIAL CABLE ASSEMBLIES



AS LOW AS
\$2.25

FOR CB—AMATEUR—MONITOR
RECEIVER ANTENNA CIRCUITS
Finest low-loss polyfoam coax, attached PL259 plugs, factory assembled to save time and money.

Stk. No.	Description	Wt.	Net Each
2A4000	3 ft. RG 58/U. PL-259 Both Ends	3 oz.	\$2.25
2A9986	20 ft. RG 58/U. PL-259 Both Ends	1 lb.	3.25
2A4002	20 ft. RG 58/U. PL-259 One End, Spade Lugs on Other End	1 lb.	2.85
2A9979	50 ft. RG 8/U. PL-259. Both Ends	6 lbs.	9.25
2A9980	100 ft. RG 8/U. PL-259. Both Ends	11 lbs.	15.90

SAVE! COAX CABLE CONNECTORS



Stk. No.	Type	Each	10 Ea.
① 12A2459	PL-259	\$0.49	\$0.45
② 12A2460	SO-239	.49	.45
③ 18A1382	M-359	1.59	1.39
④ 12A2461	PL-258	.99	.89



MINIATURE INDICATING METERS

O.C. moving coil type meters, designed for recording level indicators or battery condition indicators. High grade movements in plastic cases. Built for rugged portable use. Just the meter where an indicating device is needed. The calibrating scales may be used to indicate current or voltage measurement.



① $1\frac{1}{2}$ " long scale marked TUNING, inclined line increasing to the right. Better than 1 Ma sensitivity, 400 to 600 ohms internal resistance. No. 18A1516. Quality Import. Each **99c**



② $1\frac{1}{8}$ " x 2" V.U. scale calibrated—20-0+3 and 0 to 100% at 0V.U. Has zero adjust on front. 200 uA sensitivity, internal resistance above 7000 ohms. No. 18A1518. Quality Import. Each **\$2.49**

③ Battery Check Meter. Full deflection on 1 volt. Add resistor to match meter to voltage of your power supply. Press-fit mounting in $\frac{1}{8}$ " hole. No. 18A1596. Each **99c**

SAVE ON THESE POPULAR CODE SETS!

TRANSISTOR CODE PRACTICE OSCILLATOR



\$11.60

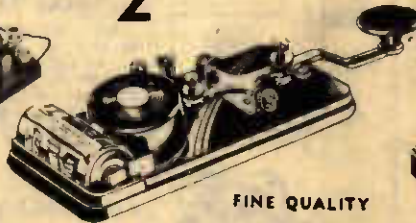
KEY INCLUDED

Top import value compares with other oscillators selling for twice this price. Perfect for the learning beginner or the professional who wants to keep in practice. Variable pitch control. Switch selects tone, light or combination operation. Built-in speaker has sub-miniature headphone jack. Oscillator size $6\frac{1}{8} \times 3\frac{1}{2} \times 2\frac{5}{8}$ ". Miniature earset, key, batteries and instructions supplied.

No. 9A3105. Wt. 2 lbs. Complete Unit **\$11.60**

CODE PRACTICE SET

\$2.98



FINE QUALITY

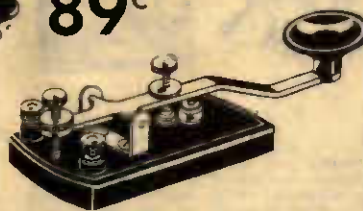
Beautifully made import. Gives clear steady "code note" at ample listening level, or will operate one or several pairs of headphones wired in parallel. Two sets, each with headphones and hooked together with wire will transmit code messages 100 ft. apart. Uses standard flashlight battery.

No. 9A3106. Less Battery. Wt. 1 lb. Net Each **\$2.98** For. **\$4.75**
No. 21A1. Battery. Each **20c**

B-A BARGAIN SPECIAL TELEGRAPH KEY

WORTH MUCH MORE!

89c



Finest key we've seen at anywhere near this low price. Neat, import made with heavy $\frac{1}{8}$ " contacts, bright plated sturdy steel lever arm, fully adjustable spring and spacing, brass hardware, molded bakelite base. Wonderful for code practice or ham station operating. Wt. 10 oz.

No. 9A3093. Special Each **89c**
LEARNING THE CODE
ARRL Book provides basic instruction for sending and receiving. Wt. 6 oz. No. 16A63. Each **50c**

DELUXE BRASS FAST-ACTION SPEED KEY

We thought we had seen 'em all ... but this one is different, even better than the famous J-38. Quadruple ball bearing pivots give key fast action ... ideal for novice, perfect for high speed operator. Base is bright polished solid brass, silver contacts. Fully adjustable for the right "feel." Nicked, knurled hardware, shorting lever switch and standard black knob. Believe us, this import is an unusual value and would ordinarily cost several times more. Shpg. wt. $1\frac{1}{2}$ lbs.

No. 9A3107. Special Each **\$3.59**

IT'S EVEN BETTER THAN THE POPULAR J-38 SIGNAL CORPS KEY

\$3.59



VELVET SMOOTH VERNIER DIALS

\$1.89

IMPORT

COMPARE WITH DIALS SELLING FOR OVER \$4.00



Planetary drive ratio 8 to 1 in 180° counter clockwise. Brushed silver dial with deep-etched black-filled markings reads 0 to 100. Knob and housing molded black phenolic. Surface mounting for $\frac{1}{4}$ " shaft. Shpg. wt. 8 oz.
No. 12A2458. $1\frac{1}{2}$ " Dia. Each **\$1.89**
No. 12A2306. 2" Dia. Each **\$1.99**
No. 12A2009. 3" Dia. with vernier to 1/10th division. Each **\$3.89**

PROFESSIONAL STYLE EQUIPMENT KNOBS

44c



BIG IMPORT SAVINGS

Beautifully made, will really dress up equipment. Skirted, $1\frac{1}{4}$ " D. with white filled 0 to 10 marking, and brass insert. Specify Black or Grey. Wt. 2 oz.
No. 12M2007. 44c 10 Lots, Each **39c**
Un-numbered, white pointer on skirt. No. 12M2008. Black or Gray **44c**
10 Lots, Each **39c**

HI-FREQUENCY BUZZER

FOR CODE PRACTICE **\$1.12**



Fine companion for key page 8. Gives clear, steady "code" note. Fully adjustable. Operates on single $1\frac{1}{2}$ V. battery. In molded bakelite case 2" dia. Imported, at lowest cost ever. Wt. 4 oz. No. 9A3104. Special Each **\$1.12**
21A1. Battery. Net Ea. **20c**
No. 12A2021. Clip-In Battery Holder Net Each **33c**

BARE COPPERWELD ANTENNA WIRE

\$3.99



500 FT. COIL

Has many times the strength of ordinary copper wire—does not stretch or sag. Ideal where long lines are needed. Electrical properties same as copper at high frequency. Wt. 3 lbs.

No. 2B24. Size 18 500 Ft. Coil **\$3.99**

COIL LOADED CB ANTENNA

\$2.95

FOR WALKIE TALKIES

Ideal for use in confined areas or places where extended antennas are impractical.

Compact unit adjusts from 14" to 16" for tuning. Replaces 3-ft. to 5-ft. telescopic antennas. Mounts quickly on existing antenna with screw clamp. Durable construction. Handy to have in confined work-house areas, dense undergrowth, athletic events, etc. No. 10A7000. Special Each ... **\$2.95**

BA BARGAINS!

EXPERIMENTERS & BUILDERS

BRAND NEW FULLY GUARANTEED

POCKET RADIO EARPHONES



2 For **99c**

Used with most transistor radios. Sub-miniature plug attached. High quality import. No. 32A9005. Special, 2 For **99c**

STETHOSCOPE TYPE CRYSTAL EARSET

\$1.19

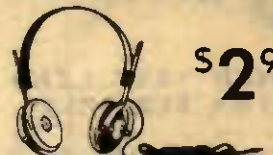
BIG IMPORT SAVINGS



Modern, lightweight, under-chin design. Fully adjustable. High impedance, wide range. 3 ft. cord. No. 32A9004. Wt. 8 oz. Each **\$1.19**

Communications Quality IMPORTED HEADPHONES

\$2.95



Rugged, lightweight, polished black and white bakelite headsets. Offers extra sensitivity and fidelity, at big extra savings. For the novice ham—or general use. Hi-Flux magnet, adjustable headband, flexible 42" cord with tips. Shpg. wt. 1 lb. No. 32A9006. 4000 Ohm. Net Each **\$2.95**

CRYSTAL EARPHONE

Extra sensitive high-power high impedance. 3 ft. cord, import. Wt. 4 oz. 32A9000. Each **89c**

89c

DYNAMIC EARSET MIN. PLUG AND JACK

\$1.19

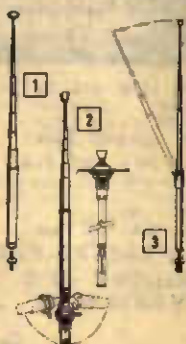


Lightweight, high quality. Imported. 3 ft. cord, plug, jack. Wt. 4 oz. 32A9002 - 2000 Ohm 32A9001 - 15 Ohm CHOICE, EACH **\$1.19**
DYNAMIC EARSET with ultra miniature .097" dia. plug (no jack) for most Japanese radios. 15 ohms. No. 32A9003. Wt. 3 oz. Each **\$1.19**

CHROME PLATED BRASS TELESCOPING ANTENNAS

FOR WALKIE-TALKIES, TRANSISTOR RADIOS, ETC. Precision machined for perfect fit and action. Tapped at bottom for 4-40 screws and supplied with 6-32 and 8-32 adaptor for mounting in CB Walkie-Talkies, miniature radios, etc. No better quality anywhere! Imported. Average shpg. wt. 8 ozs.

Stock No.	No. Sections	Dia.	Length Collapsed	Length Extended	Net Each
10A3035	7	$\frac{5}{8}$ "	8"	46 $\frac{1}{2}$ "	\$1.95
10A3036	8	$\frac{7}{8}$ "	7 $\frac{1}{2}$ "	48"	1.95
10A3037	9	$1\frac{1}{8}$ "	7 $\frac{3}{4}$ "	51"	1.95
10A7032	11	$1\frac{3}{8}$ "	6 $\frac{1}{2}$ "	50"	1.95



② Telescoping Folding Monopole Antennas. Disappears completely. Swivels or folds 90° in any direction when extended. Finely made, heavily chromed plated brass. 8 sections extend to 23" overall. Shpg. wt. $1\frac{1}{2}$ lbs. No. 10A7033. Top Quality Import. Special Each **\$1.95**

③ 32 Inch 7-Section Antenna. 90° swivel joint. Has 4 inch section with adaptors at bottom to extend down into set. Brass, chrome plated. No. 10A7031. Special Each **\$1.95**

BA BARGAINS!

EXPERIMENTERS AND BUILDERS

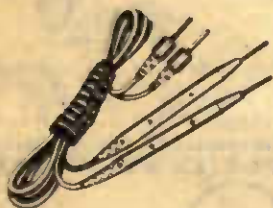
BRAND NEW FULLY GUARANTEED



RETRACTABLE TEST LEADS

Extends to 96 inches, retracts to 16 inches. 1 ea. phone tip test prods Red and Black are 6 inches long.

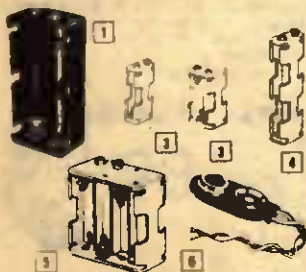
No. 35A8016. **\$1.95**
Each



60 INCH TEST LEAD EXTRA FLEXIBLE

Both the test prods and the plug tips have flexible strain reliefs to minimize breakage at these points.

No. 35A8053. **\$1.09**
Each



BATTERY HOLDERS

Same as used in most transistor portables. Has standard snap-on battery connectors. Sturdy plastic construction. Aver. Shpg. Wt. 3 oz.

- ① Holds 2 "D" Cells. No. 12A2453. Each **\$1.29**
- ① Holds 4 "D" Cells. No. 12A2449. Each **\$1.79**
- ③ Holds 2 "AA" Cells. No. 12A2450. Each **69c**
- ③ Holds 4 "AA" Cells. No. 12A2451. Each **\$1.19**
- ⑥ Holds 4 "AA" Cells. No. 12A2452. Each **79c**
- ⑥ Holds 6 "AA" Cells. No. 12A2454. Each **99c**
- ⑥ Holds 8 "AA" Cells. No. 12A2455. Each **\$1.19**
- ⑥ Holds 10 "AA" Cells. No. 12A2456. Each **\$1.29**
- ⑥ Double-Snap Fastener for 9V battery and battery holders above. No. 12A2012. Each **16c**

SUPER LOW PRICE! 4 INCH VENTILATING FAN

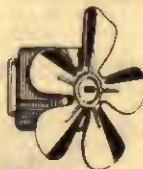


\$2.95

Quiet, efficient fan moves approximately 100 cu. ft. of air per minute. Barber-Coleman motor is designed for continuous duty. Mounts by 10/32 threaded spacers on 2" centers on back of motor. Motor size: 2 3/8" X 2 3/8" X 2" plus 3/4" shaft. Operates on 110 VAC, 60 Hz Shpg. wt. 2 1/2 lbs.

No. 18A1546. Each **\$2.95**

7 INCH VENTILATING FAN



\$3.95

5 blade fan for quick, efficient cooling and exhausting applications. Moves about 500 CFM. For 115 VAC operation.

No. 18A1562. Special Each **\$3.95**

LOOK AT THIS SAVING! RF CHOKE



SAVE NOW!

RATED 2 1/2 MH 125 MA **59c**

Each, 10 Lots

Popular four pie type for use in high frequency circuits of receivers and transmitters. Replaces National types R50 and R100. Small size, only 1 x 1 1/2" dia. with axial leads. Humidity proof varnish impregnated. Wt. 1 oz. No. 13A5157 **65c** 10 Lots, **59c** Net Each

BIG SAVINGS ON VOLUME CONTROLS

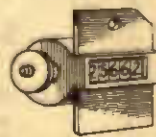


99c

Popular CTS American made volume controls with on-off switch. Standard 1/4" shaft, 1" long, 3/4" diameter. Hurry while limited stock lasts. 18A1497. 1/2 meg. control with switch. 18A1496. 1 meg. control with switch. Choice **99c** 10 Each **89c**

SMALL ENCASED COUNTER

99c



5 digit left hand drive. Ideal for metering or timing, business machines, photo equipment, vending machines, etc. 1 1/2" long x 1 1/4" wide x 3/8" deep including shaft. British Import. No. 18A1507 **99c** 10 Each **88c**

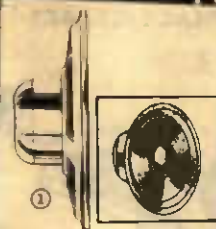
6" SPEAKER

SPECIAL PURCHASE VALUE!

Give away low price on top quality American made speakers. 1.47 oz. magnet. No. 18A1459. **\$1.49** 10 Ea. **\$1.29** Each



MINIATURE SPEAKERS FOR TRANSISTOR POCKET PORTABLES

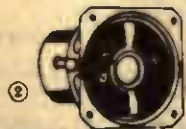


PERFECT FOR REPLACEMENT BUILDERS AND EXPERIMENTERS TOO!

① Exact replacement for most pocket size portables. Also fine for all sorts of other miniature devices. Only 1 inch deep overall—frame and cone takes less than 1/4" behind panel. Mount by space saving clips. 8 ohm V.C. Top quality imports. Wt. 8 oz.

No. 34A405-2" Round. No. 34A411-2 1/2" Round
No. 34A407-2 1/4" Round. No. 34A406-2 3/4" Round

Choice **\$1.09** 10 Lots
Each **99c** Each



REALLY TINY PM SPEAKER

② Measures only 1 1/2" dia. x 1" deep. Features amazing quality for its extreme small size. 3-8 ohm V.C. Precision import. Wt. 6 oz. No. 34A410. Special Each **\$1.75**



GIVE-AWAY LOW PRICE

0-150 AC VOLTMETER

\$4.95



Scale marked 0-900. Easily changed to 0-150 or any other scale you require. Size: 4 x 4 5/8". Mounts in 2 7/8" hole. Has zero adjust. Hurry While They Last. Shpg. wt. 2 lb. No. 18A1566. **\$4.95** Special Each

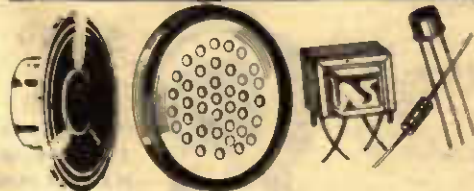


24 VOLT - 8 AMP TRANSFORMER

Primary 120 VAC 50/60 Hz. for continuous duty. Lamination stack 1 3/4" high. Overall ht. 3". 3 3/4" L x 3 3/8" W. 4 mtg. screws on 2 1/2" X 3 3/8" centers. for horizontal thru-chassis mounting, or may be mounted upright with brackets (not furnished). Shpg. wt. 6 1/2 lbs. No. 18A1541 **\$5.95** 10 @ **\$5.49** Each

\$5.95

B-A SPECIAL VALUE!



MINIATURE PA KIT TRANSISTOR PARTS BARGAIN WORTH AT LEAST \$3.95

\$1.39

Terrific bargain priced kit originally built for transistorized loudspeaker. One or two parts alone worth our low price. Build a low power transistor public address system, intercom, listening and monitoring devices, etc. Contains 2 1/4" speaker, carbon mike, audio amplifier transistor, matching transformer, resistor and diagram. Operates from 6 to 12 volt battery. No. 18A1315 **\$1.39** 10 Kits **\$1.19** Per Kit, Each

POPULAR MIDGET VARIABLE CONDENSERS



(1) SEMI-MIDGET 365 Pfd. All brass and aluminum construction with smooth action ball bearings. 1/4" x 1 1/8" long shaft. Panel or base mount. 1 3/8" W. x 1 3/4" H. x 1 3/4" D. Import. **\$2.59** 10 Lots **\$2.22** No. 12A2462. Each

(2) DUAL 365 Pfd. Beautifully made with ball-bearing rotor and built-in trimmers. Size only 1 3/8" x 1 3/8" x 2 3/4" L. 1/4" brass shaft extends 1 1/8". For tuned radio frequency, crystal, transistor and experimental circuits. Shpg. wt. 1/2 lb. No. 12A2494. Each **\$6.99** 10 Lots **\$5.99** Each

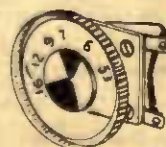
HARD-TO-FIND MIDGET APC VARIABLES

39c

Finest quality, U.S.A. made. Actually priced far below manufacturers cost. Limited quantities available. Avg. shpg. wt. 4 oz. With screwdriver slotted shaft.

Stk. No.	Max. Pfd.	Min. Pfd.	Each
18A82	17	2	39c
18B101	30	5	39c

MINIATURE 365 PFD. VARIABLE WITH DIAL

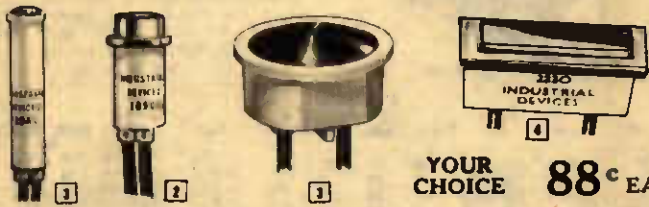


\$1.29

Condenser 1-in. Square Only 1" square x 1/2" deep. Close fitting clear plastic 1 1/4" dia. dial with gold trim and numerals. Knurled edge for easy tuning. Wt. 4 oz. No. 12A2404 **\$1.29** Special Net Each

**AMERICAN MADE
PERMANENT NEON SNAP-IN
PANEL LIGHTS**

COMPLETELY ASSEMBLED WITH LONG-LIFE NEON BULBS

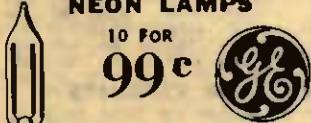


YOUR CHOICE 88¢ EA.

Popular new style panel lights give hi-fi, ham, commercial, etc. equipment a brand new modern look. Just snaps in—much simpler, much faster, better looking than older type assemblies. Contains 10,000 hour life high brightness neon lamp with built-in resistor. Has 4 1/2" leads. Unaffected by vibration or shock. For 105-125 V. AC. Specify color: Red, Amber or White. Avg. wt. 1 oz.

- ① No. 12M4124 Small flush mount. Almost a dot of light. Requires only a 3/8" dia. mounting hole in thin or thick panels.
 - ② No. 14M4125 Medium, 1/2" dia. Extends slightly from surface for good side visibility. Mtg. hole 1/2" in thin or thick panels.
 - ③ No. 12M4126 Large, 7/8" dia. Mounts in 7/8" hole. With retainer for thin panels. Can be press-fit into thick wood or composition panels.
 - ④ No. 12M4127 Rectangular, 1 1/2" x .400" mtg. Snap-fits into panels .055 to 0.70" thick. Mounts with speed nut in thicker panels.
- Choice Each..... **88c** 10 Lots Each..... **79c** 100 Lots Each..... **59c**

**SAVE ON GE NE2A
NEON LAMPS**



10 FOR
99¢

REG. NET
20c EACH

Popular 1/25 watt bulb as used for pilot light assemblies, volume level indicators. Unboxed, with 2 wire leads 1/4" dia., 1 1/4" long. Requires 200,000 ohm series resistor for 105-125 V. operation. Wt. 4 oz.

12A4129 50 For **99c** For **\$4.49**

**MINIATURE TRANSISTOR
AUDIO TRANSFORMERS**

99¢



Tiny size. Measures 1/4 X 5/8 X 5/8". For amplifier and radio circuits using standard types of transistors. Highest quality import. Wt. 6 oz.

No. 13A950. Input. Pri. 20,000 ohms; sec. 1000 ohms.

No. 13A951. Driver. Pri. 10,000 ohms; sec. 2000 ohms C.T.

No. 13A952. Output. Pri. 500 ohms C.T.; sec. 3.2 ohms.

No. 13A949. Crystal Mike Input. Pri. 200,000 ohms; sec. 1000 ohms.

Your Choice Each..... **99c** 10 Lots **89c**

**MOST POPULAR
BAKELITE
TUBE SOCKETS**



- (1) Octal fits 1 11/64" mtg. hole with 1 5/8" mounting centers.
No. 18B677 **22c** 10 Lots **18c**
Each.....
- (2) Octal fits 1 1/8" mounting hole with 1 1/2" mounting centers.
No. 18C210 **19c** 10 Lots **16c**
Each.....
- (3) 7 Pin Miniature fits 3/4" mounting hole with 7/8" mounting centers.
No. 18C893 **11c** 10 Lots **10c**
Each.....
- (3) 9 Pin Miniature fits 3/4" mounting hole with 1 1/8" mounting centers.
No. 18C894 **13c** 10 Lots **11c**
Each.....

**SUB-MINIATURE
PLUGS
& JACKS**



Solder terminals. Plug 1" long X 3/8" dia. 1/8" dia. finger. Jack mounts in 1/4" hole. Wt. 1 oz.
No. 12A6080. Red Plug. Each..... **49c**
No. 12A6081. Black Plug. Each..... **49c**
No. 12A6082. Metal Plug. Each..... **59c**
No. 12A6072. Jack. Each..... **29c**

**SUPER-SENSITIVE
"VARI-LOOPSTICK"
MINIATURE ANTENNA**



89¢

Quality
Import

Powerful high-Q type tapped for transistor circuits. Tunes with 365 Pfd. condenser. Size only 3/4" dia. x 2" long. Mounts in 1/8" hole. Wt. 2 ozs.
No. 13A5060 **89c** 10 @ **79c**
Each.....

**OCTAL PLUG AND
SOCKET SET**



59¢ Set
10 Set Lots

Most popular for power cables, speakers, remote control, etc. Octal 8-prong, black bakelite plug with snap-on metal cap plus black bakelite socket. Reg. net 83¢. Wt. 3 oz.
No. 18C207 **69c** 10 sets **59c**
Per Set Each.....

**CHASSIS MOUNTING
AC SOCKETS**



13¢

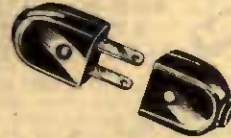
EACH, 10- LOTS

REG. NET 21c

Fits standard AC plugs. Fine for repairs or new construction. Mounts in 1/4" x 3/4" hole. Mtg. ctrs. 1 1/8". Wt. 1 oz.

No. 18B26. 10 Lots, **13c**
Spec. Each... **16c** Each.....

**2-WIRE AC LINE
CONNECTOR SET**

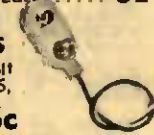


Handy for extending AC cords, speaker leads, etc. Gray plastic. Makes sturdy, positive connection. Import savings. Size 2 1/2 x 1 x 1/2". Wt. 3 oz.

No. 12A6083. 10 Sets **32c**
Per Set... **49c** Each.....

**BATTERY SNAP
WITH 3" LEADS**

Fits popular 9 volt batteries like 216, U30, 006P, 12A2012 Ea. **16c**



2 For **99¢**
Four pole 2 position spring return switch. Same as used in many walkie talkies. Compact size only 1 1/8 x 5/8". Mounts directly to PC board or can be hand wired. With knob. No. 18A1491. Special. 2 for **99c**

BIG SAVINGS ON COAX CABLE

RG58U cable. Nice clean cable at tremendous savings because of a BA special purchase. Shpg. wt. 3.5 lbs. per 100 ft. No. 18A1526. **\$3.99** 1000 Ft. **\$28.88**

RG58U cable. Nice clean cable at tremendous savings because of a BA special purchase. Shpg. wt. 3.5 lbs. per 100 ft. No. 18A1526. **\$3.99** 1000 Ft. **\$28.88**

AC POWER CORD BARGAINS

**BELDEN 7 1/2-FT. HEAVY
DUTY AC LINE CORD**



ONLY **59c**
Each
10 Lots

Heavy flexible, tinned copper conductors sheathed with liberal thickness of live rubber and attached to rugged rubber plug with durable spring contacts. Pearl gray. Shpg. wt. 8 oz. No. 41A372. 10 Lots, **59c**
Special Each **69c** Each.....

U/L AC LINE CORDS

Extra flexible "zip-apart" size 18 POT plastic cords with molded attachment plug. Free end stripped. Avg. wt. 3 oz.

6 Ft. Brown, Ivory or Gray Specify color. 41M332 **42c** 10 **\$3.20**
Choice Each..... For.....

9 Ft. Brown **50c** 10 **\$3.80**
41A333. 18-2 SV POWER CORDS
18 Ft. Gray. 1/4" dia round.
18A1398. Ea. **50c** 10 **\$3.80**
For.....

**25 & 50 Ft. Heavy
Duty EXTENSION CORDS**



\$2.79
25 FEET

Moisture-proof extra flexible vinyl cord sets with "molded-on" UL approved caps and connectors. For indoor and outdoor use with power tools, appliances, lighting equipment, etc. Specify Black or Red.

#16-2 CONDUCTOR
41M373. 25 Ft. Wt. 1 lb. **\$2.79**
41M374. 50 Ft. Wt. 3 lbs. Ea. **\$4.59**

**18/2 LAMP AND
APPLIANCE CORD**



\$4.39
100 Ft.

Highest grade, extra flexible plastic POT (SPT-1) zip cord with size 18 conductors. Fine for speaker hookups, AC extensions, etc. Brown or Ivory. Shpg. wt. 100' 1 lb.
2M9892. 100 Ft. **\$4.39**
25 Ft. **\$1.40** For.....
1000 Ft. For..... **\$29.55**

Cord Retainers

Wedge type fits 3/8 to 1/2" dia. holes. Grips two conductor zip cord firmly. Flexible black polyethylene. Import special. No. 41A375. 2 oz. Pkg. of 5 **49c**

BA BARGAINS!

SAVE ON CAPACITORS

BRAND NEW FULLY GUARANTEED

PRINTED CIRCUIT ELECTROLYTICS



Miniature size capacitors for small solid state circuits. Top quality imports. Metal Case with epoxy end fill. Vinyl insulating sleeve around sides. Use 16 volt types for all voltages below 16 volts.

16 VOLTS					
Stock No.	uF	Size Dia.	Inches Length	1-9 Each	10-99 Each
15A5661	5	13/64	7/16	\$0.24	\$0.21
15A5662	10	15/64	7/16	.24	.21
15A5663	22	5/16	29/64	.28	.24
15A5664	50	25/64	1/2	.33	.27
15A5665	100	25/64	21/32	.36	.29
15A5666	220	33/64	13/16	.52	.46
15A5667	600	19/32	31/32	.60	.52
15A5668	1000	19/32	1-3/8	.96	.85

35 VOLTS					
Stock No.	uF	Size Dia.	Inches Length	1-9 Each	10-99 Each
15A5669	5	1/4	3/8	.24	.21
15A5670	10	5/16	13/32	.28	.24
15A5671	22	3/8	15/32	.33	.27
15A5672	50	3/8	9/16	.38	.33
15A5673	100	3/8	3/4	.48	.41
15A5674	220	19/32	31/32	.60	.52
15A5675	500	3/4	1-5/8	.96	.85

50 VOLTS					
Stock No.	uF	Size Dia.	Inches Length	1-9 Each	10-99 Each
15A5676	1	13/64	7/16	.24	.21
15A5677	2.2	13/64	7/16	.24	.21
15A5115	5	15/64	7/16	.26	.23
15A5116	10	5/16	29/64	.36	.32
15A5678	22	25/64	21/32	.42	.37
15A5117	50	33/64	21/32	.45	.38
15A6118	100	33/64	31/32	.52	.46
15A6119	220	19/32	1-3/8	.96	.85
15A5679	500	25/32	1-5/8	1.24	1.07

MINIATURE CERAMIC DISCS 10 FOR 59c



600 WORKING VOLTS DC

Finest quality general purpose ceramic capacitors featuring excellent high frequency characteristics, extreme small size, and rugged construction. All are fresh stock—Fully Guaranteed.

Stock No.	Cap. uF	"10 For	"100 For
18A1210	.00001	59c	\$4.95
18A1219	.00002	89c	4.95
18A1211	.000047	89c	4.95
18A1212	.0001	59c	4.95
18A1213	.00017	59c	4.95
18A1214	.001	59c	4.95
18A1216	.002	59c	4.95
18A1218	.005	59c	4.95
18A1217	.01	59c	4.95
18A1218	.02	79c	6.95

*Minimum 10 per Cpcty. Wt. 10, 2 oz.

KIT OF 50 OF ABOVE: 4 each .00001, .00002, .000047, .0001, .002 and .005; 8 each .00047 and .001; 6 each .01; 4 each .02 all 600 V. or higher. No. 15A2239. Wt. 10 oz. **\$2.79**

Special Per Asst.

MINIATURE CONTROL

Has 15/16" thumbwheel adjustment. With SPST switch. Dia. 5/8", depth 1/2" Imported.



14A1143—5K Ohms
14A1142—10K Ohms

Choice Each **89c**

BIG SAVINGS ON HIGH CAPACITY TUBULARS

SAVE AT LEAST 1/2!
For Solid State Circuitry
Precision made—very high quality. Hermetically sealed in aluminum, vinyl insulated, B-A special purchase makes prices lowest we've seen for electrolytics like these. Have 1 1/2" tinned leads. Imported.

15 WORKING VOLTS					
uF	Size	Stock No.	10 Each	50 Each	100 Each
1000	1/2x1 1/4"	18A1407	49c	44c	43c
2000	7/8x1 1/4"	18A1408	69c	63c	63c

25 WORKING VOLTS					
uF	Size	Stock No.	10 Each	50 Each	100 Each
250	3/4x1 1/4"	18A1405	39c	5c	5c
500	3/4x1 1/4"	18A1406	49c	44c	44c

SUB-MINIATURE AXIAL LEAD ELECTROLYTICS

Miniature tubular capacitors for solid state circuits. Top quality imports. Metal case with epoxy end fill, vinyl insulating sleeve around sides. Use 16 volt types for all voltages below 16 volts.

16 VOLTS					
Stock No.	uF	Size Dia.	Inches Length	1-9 Each	10-99 Each
15A5680	5	7/32	19/32	.24	.21
15A5681	10	1/4	19/32	.24	.21
15A5682	22	5/16	19/32	.28	.24
15A5683	50	5/16	19/32	.33	.27
15A5684	100	13/32	1	.36	.29
15A5685	220	1/2	1-1/16	.52	.46
15A5686	500	19/32	29/32	.60	.52
15A5687	1000	23/32	1-21/32	.96	.85
15A5688	2000	23/32	1-5/8	1.05	.87

35 VOLTS					
Stock No.	uF	Size Dia.	Inches Length	1-9 Each	10-99 Each
15A5689	5	1/4	19/32	.24	.21
15A5689	10	5/16	19/32	.28	.24
15A5690	22	5/16	13/16	.33	.27
15A5691	50	13/32	1	.38	.33
15A5692	100	23/32	1-1/4	.48	.41
15A5693	220	19/32	1-1/4	.60	.52
15A5694	500	23/32	1-21/32	.96	.85
15A5695	1000	7/8	2-1/4	1.24	1.07
15A5698	2000	7/8	2-5/16	1.30	1.13

60 VOLTS					
Stock No.	uF	Size Dia.	Inches Length	1-9 Each	10-99 Each
15A5696	1	13/64	15/32	.24	.21
15A5697	2.2	13/64	15/32	.24	.21
15A5698	5	15/64	15/32	.26	.23
15A5699	10	5/16	39/64	.36	.32
15A5700	22	25/64	49/64	.42	.37
15A5701	50	1/2	1-1/16	.45	.38
15A5702	100	1/2	1-1/4	.52	.46
15A5703	220	19/32	1-5/8	.96	.85
15A5704	500	25/32	1-5/8	1.24	1.07

PRINTED CIRCUIT TYPE FILM CAPACITORS

Extremely small, high quality Film Capacitors Perfect for transistorized circuits. High dielectric strength and rugged construction assures long life. Epoxy coating withstands high humidity and temperature. Top quality import.

100 WORKING VOLTS DC					
Stock No.	uF	Size H	Inches W	1-9 Each	10-99 Each
15A7535	.001	.455	.168	.17	.12
15A7538	.0047	.455	.168	.17	.12
15A7536	.01	.455	.247	.17	.12
15A7537	.022	.455	.275	.17	.12
15A7539	.033	.455	.335	.20	.14
15A7540	.047	.490	.335	.21	.15
15A7541	.068	.490	.380	.22	.16
15A7542	.1	.490	.428	.23	.17
15A7543	.22	.710	.522	.30	.22
15A7544	.47	.945	.630	.49	.37

TUBULAR CAPACITORS

High temperature rated, moisture resistant, non-inductive. Every one brand new and perfect. Average wt. 2 ozs.

600 W.V. DC					
uF	Size	Stock No.	10 Each	50 Each	100 Each
.0001	1/2x1"	18B399	12c	10c	9c
.0005	3/4x1"	18A591	12c	10c	9c
.001	3/4x1"	18A592	21c	18c	14c
.002	3/4x1"	18A595	16c	14c	10c
.0047	3/4x1"	18A605	16c	14c	10c
.01	3/4x1 1/4"	18A2243	21c	18c	14c
.022	3/4x1 1/4"	18A621	21c	18c	14c
.05	3/4x1 1/4"	18A2244	21c	18c	14c
.10	3/4x1 1/4"	18A706	26c	23c	17c
.22	3/4x1 1/4"	18A713	43c	39c	30c
.25	1/2x1 1/4"	18A714	50c	45c	35c
.50	3/4x2 1/4"	18A726	74c	68c	52c

TUBULAR ELECTROLYTICS

AS LOW AS 27c EACH, 10 LOTS

Finest quality compact tubular capacitors hermetically sealed in aluminum container with insulating sleeve and tinned copper leads. Dual types shown are metal-cased, have cardboard sleeves, vinyl insulated leads and common negative. Average Shpg. wt. 5 oz.

25 W. V. DC						150 W. V. DC					
uF	Size	Stock No.	Each	49 Each	50 Over Each	uF	Size	Stock No.	Each	49 Each	50 Over Each
10	1/2x1 1/4"	15A5122	.39	.35	.32	50	3/4x2 1/4"	15A5138	49c	44c	40c
25	1/2x1 1/4"	15A418	.44	.39	.35	80	1x2 1/4"	15A5139	56c	51c	46c
50	3/4x1 1/4"	15A5123	.39	.35	.32	100	1x2 1/2"	15A5140	72c	65c	59c
100	1/2x1 1/4"	15A5124	.49	.44	.40	200	1x3"	15A5141	89c	81c	73c
500	1x2"	18A772	.99	.90	.81	20-20	3/4x1 1/2"	15A5142	54c	49c	44c
1000	1x2 3/4"	15A5125	1.16	1.05	.95	40-40	7/8x2 1/4"	15A416	64c	58c	52c
2000	1 3/8x3"	15A5126	1.26	1.13	1.02	50-30	7/8x2 1/4"	15A5143	55c	50c	45c
						80-20	1x3"	18B786	49c	42c	39c
						40-30					
						20	1x3"	15A941	79c	72c	65c
						50-30					
						20	1x3"	15A5144	79c	72c	65c
						80-40					
						20	1x3 3/8"	15A5145	89c	81c	73c

50 W. V. DC					
uF	Size	Stock No.	Each	49 Each	50 Over Each
1	3/4x2"	18B608	.30	.27	.24
4	3/4x1 1/4"	18B462	.33	.30	.27
10	1/2x1 1/4"	15A419	.36	.33	.30
25	3/4x1 1/4"	15A5127	.38	.34	.31
50	3/4x1 1/4"	15A5128	.42	.38	.34
100	3/4x1 1/4"	15A5129	.58	.52	.47
250	1x2"	15A5131	.74	.68	.61
500	1x2 1/4"	15A5132	1.19	1.07	.96
1000	1x3"	15A5133	1.26	1.13	1.02
2000	1 3/8x3"	15A5134	1.38	1.24	1.12

150 W. V. DC					
uF	Size	Stock No.	Each	49 Each	50 Over Each
10	1 1/4x1 1/4"	15A5135	.38	.34	.31
20	3/4x2 1/4"	15A5136	.42	.40	.36
30	3/4x1 1/2"	15A5137	.44	.40	.36
40	3/4x2 1/4"	15A413	.49	.44	.40

ELECTROLYTICS FOR PRINTED CIRCUITS

- 1 Finest American made. Just the ticket for printed circuits in TV etc.
50-30 uF @ 150 V. Size 1 x 2 1/4". Wt. 4 oz. No. 15A5159 **69c** For **\$2.99**
- 2 1500 uF @ 35V. 1" Dia. x 2" Long. 1/4" leads. Blue vinyl insulating sleeve. No. 18A1506. **99c** 10 Lots **89c**
- 3 1000 uF @ 15V. 5/8" Dia. x 1 1/4" Long. 7/8" leads. With insulating sleeve. No. 18A1478. **69c** 10 Lots **59c**
- 4 3000 uF 30 V. Capacitor. Vinyl insulating sleeve. 3 1/2 x 1" dia. Solder lug terminals. Reg net over \$2.00. No. 18A1423. Each **69c**
- 5 8000 uF @ 15 VDC Axial Lead Electrolytic. 3 1/2" L x 1" Dia. with vinyl insulating sleeve. No. 18A1523. **\$1.39** 10 Each **\$1.19**

TWIST PRONG ELECTROLYTICS

- 4000 uF @ 25 V. Aluminum can 1-3/8 x 2-5/8". Heavy plastic insulated. Made in Italy by Ducati. No. 18A1590. **\$1.69** 10 Lots **\$1.49**
- 50-50 uF @ 150 V. Size 1 x 2 1/4". Wt. 4 oz. No. 15A5160 **75c** For **\$3.29**
- 50 uF @ 150 V. Aluminum can 1 x 1 1/4". Plastic insulated. Japan. No. 18A1348 **49c** For **\$2.19**

High Capacity Types for modern solid state circuitry. Avg. Shpg. wt. 8 ozs.

Stk. No.	uF	Volts	Size	Stk. No.	uF	Volts	Size
18C857	850-400	16	1 3/4x1 3/4" H.	18A1302	500-200		
18B689	80/4-4/200			50	100	1 3/4x3" H.	
	475/450/25	1 3/4x3 3/4" H.		18C858	400-100	16	1x1 1/2" H.

CHOICE EACH **49c** 10 Each **39c** Asst. **29c**

BIG SAVINGS ON VOLUME CONTROLS

Smooth action volume controls. Highest quality. 1/2" shaft 3" long except 5000 ohms has 1/2 x 1" shaft, easily cut to desired length. Linear taper. 5000 ohms is 5/8" diameter, others are 15/16" dia. Switch rating 3 amp @ 125 V. Avg. wt. 4 oz.

Ohms Resistance	LESS SWITCH	10 Lots	WITH SPST SWITCH	10 Lots		
Stk. No.	Each	Each	Stk. No.	Each		
5000	14C300	89c	79c	14C334	\$1.59	\$1.39
1/2 Meg.	14A1140	89c	79c	14A1144	1.19	.94
1 Meg.	14A1141	89c	79c	14A1145	1.19	.94

No. 12B1205. KNOB for 1/8" shafts. Each **15c**

HEAT SHRINKABLE TUBING

24 FT. FOR

\$1.99



Popular 3/32" black tubing. Shrinks about 50%. Use to insulate splices, terminals etc. Supplied in 4 ft. lengths. Limited quantity available.

No. 18A1581 200 Ft. **\$10.00**
24 Ft. For **\$1.99** For

VEEDER-ROOT ELECTRIC COUNTER



High quality industrial type unit with digital readout dials. Counts up to 999,999, non-resetting. Single electrical pulse moves counter 1 digit. Has 110 V. DC coil, 5000 ohms. Use on 115 V. AC by adding small power rectifier, 1 1/2" x 1 3/8" H. Ideal for use with an electric eye for counting people or objects. Original cost several times our price. Shpg. wt. 10 oz.

No. 18B973. Special Purchase Price **\$5.95**

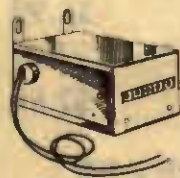
HIGH SPEED 115 V. AC ELECTRIC COUNTER



Six digit readout. Counts up to 999,999 and repeats. Very high quality industrial type, made for surface or behind panel mounting. Operates quietly in any position. Single, 25 Millisec. or longer electrical pulse moves counter 1 digit. Body size 3 1/4 x 1 3/8 x 2 1/8" high. Cover removable for resetting, inspection, etc. Made by Durant, Model 6Y13RMFS. Shpg. wt. 1 lb.

No. 18A1307. While Limited Quantity Lasts **\$8.95**

6 VOLT DC ELECTRICAL IMPULSE COUNTER



\$4.95

Clear, easy to read 1/8" figures read out counts to 99,999 and return to zero on the next impulse, ready to repeat the count again. Each impulse counts one. Operates on 6 volts DC. 1 3/8" H. X 1 1/8" W. X 2 1/8" L. Mounting feet have 1 1/8" X 1 7/8" mounting centers, or may be mounted from panel by 2 No. 4 screws (not supplied) on 1" centers. A quality import. Shpg. wt. 10 ozs.

No. 18A1531. Each **\$4.95**

WESTCLOX APPLIANCE CLOCK TIMER

\$2.95



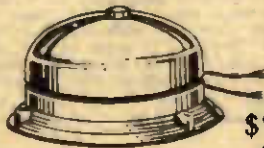
Turns on equipment up to 10 hours after setting. Switch rated at twenty amps, big enough to handle nearly any appliance, air conditioner, etc. Attractive 4 1/8" clock face with domed plastic cover 2" deep behind cover. With 5" leads for easy connection. Shpg. wt. 1 lb.

No. 18A1282. Special Each **\$2.95**

3-INCH 117 V. AC ALARM BELL

Produces loud, clear ring. Overcomes high background noises. Operates directly from any 117 VAC power source.

Shpg. Wt. 8 ozs. Imported. No. 41A4045. **\$3.95**
Special Each



\$3.95



COMBINATION ELECTRICAL LOCK DIAL ACTUATES INTERNAL SWITCH

FOR DOORS, ALARMS, ETC. Pick-proof—Made for Maximum Security.

"Locked" position holds circuit open. Dialing a 3 number combination closes circuit until dial is again turned to a random setting. Very well made, with black finished dial, white markings and chrome finished die-cast enclosure and 2 wire lead from rear. Overall diameter 2 1/2". Mounts in 1 3/4" hole, extending 1 1/4" deep. American made.

No. 18A1375. While Limited Quantity Lasts, Each **\$4.95**



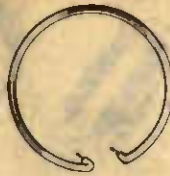
TOP QUALITY 3 AND 4 CONDUCTOR COIL CORDS

89c

American made. For telephones, microphones, electrical connection between moving devices, etc. Individual extra flexible tinsel conductors are vinyl insulated, color coded. Black vinyl jacket.

No. 18A1456. 3-Cond. 72", retracts to 28" **89c** 10 **79c**
Each **89c** Each **79c**
No. 18A1457. 4-Cond. 60", retracts to 22" **99c** 10 **89c**
Each **99c** Each **89c**

1000 WATT HEATER ELEMENT



3 FOR 99c

6 3/4" dia. solid element as used in electric ranges, appliances, heaters, etc. Has 1/2" 13 gauge solid leads exposed for connections. For 115 V. Shpg. wt. 1 lb. **99c**

No. 18A1554. 3 For

BA BARGAINS!

EXPERIMENTERS AND BUILDERS

BRAND NEW FULLY GUARANTEED

WOW! 70% OFF LIST PRICE ON PURCHASE OF 6 OR MORE!



EXTRA BIG SAVINGS ON 30 BEST SELLING TUBES

1st QUALITY FAMOUS MULLARD TUBES ONE FULL YEAR WARRANTY

Just return defective tubes with order papers for prompt replacement. May be assorted for quantity Prices—The more you buy the more you save at B-A!

Stock No.	Tube Type	Mfg. List	1-5 Each	6 or more Each
26A10010	1G3/1B3GT	\$4.20	\$1.47	\$1.26
26A10020	3A3C/3AW3	4.05	1.42	1.22
26A10030	5U4GB	3.45	1.21	1.04
26A10040	6AQ5A	3.70	1.30	1.11
26A10045	6AU6	3.25	1.14	.98
26A10050	6BA6	3.75	1.31	1.13
26A10060	6BK4C	7.85	2.75	2.36
26A10070	6BL8	2.70	.95	.81
26A10080	6BQ5	3.90	1.37	1.17
26A10090	6BZ6	3.40	1.19	1.02
26A10100	6CC8A	4.80	1.68	1.44
26A10110	6CL3/6DW4	4.10	1.44	1.23
26A10120	6DQ6B/6CW6	5.35	1.87	1.61
26A10130	6EA8	4.30	1.51	1.29
26A10140	6FQ7/6CC7	3.25	1.14	.98
26A10150	6GF7A	5.65	1.98	1.70
26A10160	6GH8A	3.20	1.12	.96
26A10170	6GM6	4.25	1.49	1.28
26A10180	6GU7	4.45	1.56	1.34
26A10190	6HMS/6HA5	3.85	1.35	1.16
26A10200	6JC6A	4.75	1.66	1.43
26A10210	6JE6	8.80	3.08	2.64
26A10220	6JS6C	7.85	2.75	2.35
26A10230	6KZ8	4.50	1.58	1.35
26A10240	6SN7GTB	4.40	1.54	1.32
26A10250	8FQ7/8CC7	3.25	1.14	.98
26A10260	12AX7	2.80	.98	.84
26A10280	12BY7/12BV7	4.15	1.45	1.25
26A10300	35W4	2.25	.79	.68
26A10500	50C5	3.50	1.23	1.05

PACK OF FIVE MINIATURE TUBES



Fine Quality Import

\$3.39

MOST COMMON TYPES IN AC-DC RECEIVERS
1-12AV6 1-50C5
1-12BA6 1-35W4
1-12BE6

Brand new and perfect, fully warranted by B-A at a tremendous savings. Just think, a whole set of 5 tubes for less than the retail price of one. Stock up now—Buy several packs at B-A's money saving low price!

No. 18A1409 **\$3.39** 3 Packs **\$8.00**
Pack of five Tubes For

BURROUGHS NIXIE READOUT TUBES DISPLAYS A TO Z AND 0-9

Large character size 2 1/2" high, 1 1/2" wide. Bright red neon glow easily read in all light conditions. Requires 170 volt DC supply voltage. With socket and pin connection data. Tubes are used. Each checked and guaranteed. Burroughs B-7971. Shpg. wt. 8 ozs.

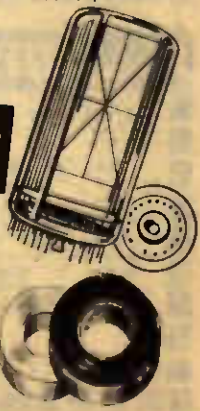
No. 18A1567 **\$4.95**
Each

3/4-IN. WIDE PLASTIC ELECTRICAL TAPE

Highest quality import value at far less than American made products. Specify Red or Black. Wt. 6 oz. 66 Ft. Roll. 17A7032—Black Choice **57c** 6 **\$2.99**
17A7033—Red Each

\$4.95

57c



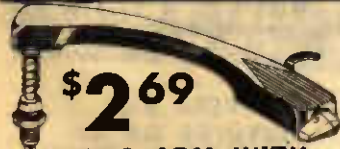
EXCEPTIONAL SAVINGS ON MOST POPULAR CARTRIDGES

BA

BARGAINS!

PHONO NEEDLES & CARTRIDGES

BRAND NEW
FULLY GUARANTEED



\$2.69

PHONO ARM WITH TURNOVER CARTRIDGE

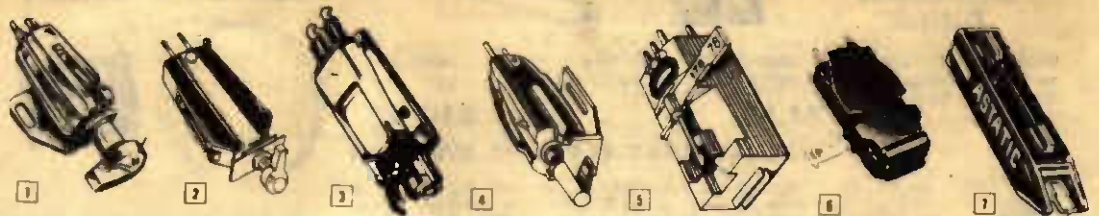
Gray hammertone finished arm with monaural turnover cartridge.

No. 24A4049. Special Each **\$2.69**

STEREO ARM AND TURNOVER CARTRIDGE

For playing all records—monaural and stereo. Output .3 V. Ivory finish. Wt. 10 oz.

No. 24A4050. Special Each **\$2.95**



STEREO CARTRIDGES

(1) **RONETTE TURNOVER.** Popular type 106 used in BSR, etc. changers. Standard 1/2" mtg. 1.5 V. output. 30 to 14,000 Hz. Sapphire stylus. Wt. 4 ozs.

No. 24A4056. Special Each **\$2.99**

With Diamond Stylus for stereo and LP, sapphire for 78 RPM. Wt. 4 ozs.

No. 24A4057. Special Each **\$3.99**

(2) **VACO FLIP-UNDER.** Exact replacement clip-in cartridge for many phonos. Comes complete with 1/2" bracket to fit most standard tone arms. Dual sapphire stylus. Wt. 3 ozs.

No. 18A1319. CN75. 2 V. output.

No. 18A1318. CN72. .9 V. Output.

SPECIAL VALUE!

Special Each **\$2.99**

(3) **ASTATIC 13TX CERAMIC** with Diamond Stylus for stereo and LP, sapphire for 78 RPM. One of the most popular American made cartridges. .5 V. output. 20-15,000 Hz. Mfg. list \$8.95.

No. 24A4058. Wt. 2 oz.

Special Each **\$3.95**

MONAURAL PHONO CARTRIDGES

(1) **UNIVERSAL TURNOVER.** Fits most changers and players. Regular 1/2" mounting. 3 V. output. 40 to 13,000 Hz. Sapphire needles. Wt. 3 ozs.

No. 24A4052. Special Each **\$1.75** 10 Lots Each **\$1.59**

(2) **EXACT REPLACEMENT FOR VACO TURNOVER.** To-45 used in thousands of changers and players. Front clamp mounting. 3 V output. Sapphire needles. Wt. 2 ozs.

No. 18A1395. Special Each **\$2.19** 10 Lots Each **\$1.95**

(3) **RCA TYPE 45 RPM.** Exact replacement for 45 RPM players. 1 V. output. 50-10,000 Hz. 1 mil sapphire stylus. Quality import.

No. 24A4054. Special Each **\$1.19** 10 Lots Each **99c**

EXACT REPLACEMENTS FOR BSR CARTRIDGES

(4) **Replaces TC8H.** Fits all BSR plastic and metal brackets for quick replacement. 3.25 volt output. Black color.

No. 24A4062.— Monaural Each **\$2.40** 10 Lots Each **\$1.99**

(5) **Replaces 5X1H.** With flat metal bracket allowing replacement of dozens of models of Astatic, Electro-Voice, Euphonic, Sonotone, Varco, etc. 2.75 volt output. Light gray color.— Stereo

No. 24A4063. Each **\$2.95** 10 Lots Each **\$2.59**

BIG PRICE SLASH ON GENUINE DIAMOND NEEDLES

Daring B-A deep price slashes on finest quality hand cut polished diamond needles. Last far longer than regular needles with far less wear to records. Avg. wt. 3 ozs.

NOW ONLY **\$1.49**



LOWEST PRICES IN B-A HISTORY

- ① Used in all the following cartridges. Astatic. 64, 118, 120, 124, 310, 312, 414, 420, 422, 436, 456, 570. Stereo 70, 74, 76, 78, 80, 86, 320, 472, 474. BSR. TC8H, M, S, EV Cart, #119, 120, 121. Ronette. Collaro, Fujii, Futura, PE DT-60, RA-284, RA-395, DC-04, TC-200, TO-222, 284, 400. Varco. TO-55 Series, TO-35X, 45, SN-45, ST-45, ST-1, 2, 4, 5, 20, 40, 100, 200. No. 24A681. Special Each **\$1.49**
- ② For Astatic. 17, 17D, 17DA, 217D, 135DA. Also GE EA97X155. No. 24A682. Special Each **\$1.49**
- ③ For Astatic. 133, 137, 138, 140, 142, 146, 148, 233, 237, 253, 450, 483, 485, 497. Also GE C-300. No. 24A683. Special Each **\$1.49**
- For BSR ST3 thru ST10. No. 24A704. Each **\$1.49**
- For Astatic. N8-3. No. 24A705. Each **\$1.49**
- ④ For General Electric. VR-11 Series. 4C-040, 041, 050, 052, 053, 061, 063. No. 24A686. Special Each **\$1.49**
- ⑤ For RCA. RMP-200-8, 9, 1067708-71B, 110021, 23, 11347, 48, 115062. Also Astatic 475, 477. No. 24A687. Special Each **\$1.49**
- ⑥ For Ronette. DC-04, 122, 222, 284, 395, 400, 422, 500, BF40, OV, OV-1, TO-208, 291. For Sonotone. 14T. For Electro-Voice 56, 87, 88. For Perpetum Ebner PE-30, 90. No. 24A688. Special Each **\$1.49**
- ⑦ For Sonotone 2T, 5T, 7T & W9980. No. 24A689. Special Each **\$1.49**
- ⑧ For Sonotone 8T, BTA, BT4 Series. No. 24A690. Special Each **\$1.49**
- ⑨ For Sonotone 21T, 22T, 23T, 24T, 35T, 43T. No. 24A691. Special Each **\$1.49**
- ⑩ For Varco CN-60, 62, 65, 67, 68, 70, 72, 75. No. 24A692. Special Each **\$1.49**

B-A SUPER BARGAIN VALUE

ASTATIC CERAMIC STEREO CARTRIDGE

WITH DIAMOND STYLUS

MFG. LIST \$13.75
\$5.95



Popular American made Astatic 1330 with .7 mil diamond stylus for stereo and LP. 3 mil sapphire for 78 RPM. Perfect high quality replacement for most changers and players. Fits standard 1/2" mtg. Ceramic element unaffected by temperature change. .5 volts output. High fidelity performance 20 to 15,000 Hz. Wt. 4 ozs.

No. 24A4108. Special Each **\$5.95**

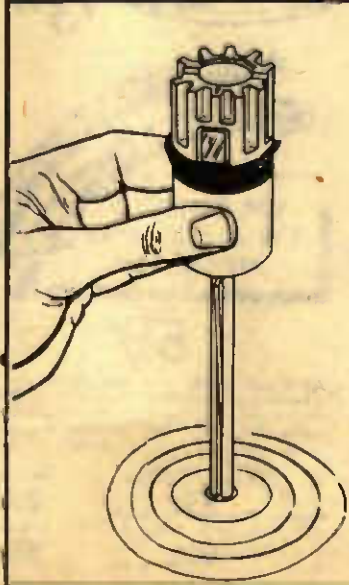


RECORDER ADAPTOR

USE YOUR
8-TRACK
PLAYER OR
DECK TO MAKE
RECORDINGS

\$24.95

Contains all the electronics to make quality recordings with your home or auto 8-track player or deck from the speaker terminals of your radio or amplifier. Complete instructions included for easy connection to your player or deck. Connects to same 12 VDC source that powers your player. Has RCA phono jacks for input connection from speakers. No other parts needed. Attaches to side of player with adhesive strips. Size: 1 3/4 x 2 1/2 x 5". No. 11A7615. Each **\$24.95**



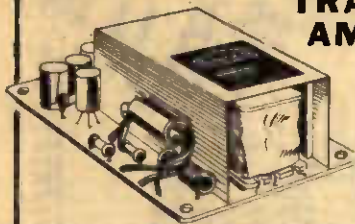
OMNIADAPTOR UNIVERSAL 45 RPM ADAPTOR

\$3.95

Works on over 90% of record changers. Replaces both flat and round types. Fits Admiral, BSR-McDonald, (except mini changer) Collaro, Deimonico, Garrard (except SL72, SL95, SLX3 and Zero 100) GE, Glaser Steers, Maestro, RCA, Silvertone, Telefunken, VM, Webcor, Straight Spindle Zenith. No. 33A752. Each **\$3.95**

POPULAR B-A AUDIO SPECIALS!

SUB-MINIATURE 2-WATT TRANSISTOR AMPLIFIER



HI-IMPEDANCE INPUT
4, 8 OR 16 OHM OUTPUT

\$8.95

Push-pull 4 transistor amplifier. Power output sufficient for small PA systems and other audio applications. Specially designed shield eliminates hum pickup and serves as transistor heat sink. 50,000 ohm input, 4, 8 or 16 ohm output. 50-15,000 Hz. response, 10 mv in for 2 watt output. Operates from 9 VDC. Size 2 1/8 X 3 X 1" H. No. 49A210. Shpg. wt. 10 oz. Quality Import, Special

B-A SPECIAL PURCHASE! COMPARE AT \$6.95



\$3.95

CASSETTE PLAYER/RECORDER HEAD DEMAGNETIZER

Deluxe cassette size device simply plugs into machine like a regular cartridge. Removes all tape head magnetic build-up, restoring original fidelity of recorder. For 110 V. 60 Hz. No. 18A1522. Each

\$3.95

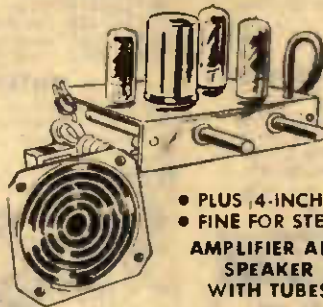


SOLID STATE STEREO PREAMP

INPUT FOR MAG. PHONO & TAPE HEADS
30-20,000 Hz.

Exceptional stereo pre-amp for use with HI-Fi amplifiers not having low-level input. Handles all magnetic cartridges or tape heads. Input selector switch equalizes for phono or tape. Perfect impedance match at input and output. Signal to noise better than -45 db. Operates on 115 V. AC. Size 6x2 1/8x3 3/8" D. Shpg. wt. 4 lbs.

No. 33A304. Import Special..... **\$12.95**



TOP VALUE!

3 TUBE PHONO AMPLIFIER

- PLUS 4-INCH PM SPEAKER
 - FINE FOR STEREO CONVERSIONS
- AMPLIFIER AND SPEAKER WITH TUBES

\$9.99

A real sweet deal! Fine quality amplifier. Compact, "L" shape, mounts in almost any position in smallest space. 3 tube (50C5, 12AV6, 35W4 rect.) for 2 watts output with excellent tone. Has separate volume and tone controls. 5 1/4" W. X 2 1/2" D. X 4 3/4" H. U/L AC-DC cord and plug. Includes heavy-duty 4" PM Alnico V speaker and output transformer. Wt. 2 lbs.

No. 33A358. Complete with Tubes & Speaker **\$9.99**
No. 33A359. Amplifier Only (less tubes). Each . \$5.95

BA BARGAINS!

EXPERIMENTERS AND BUILDERS

BRAND NEW FULLY GUARANTEED

8 OHM HEADSET
MATCHES OUTPUT OF TV AND RADIO



\$2.49

Good quality light weight double ear-phone with metal headband. Made for direct connection to speaker voice coil leads. Provides proper impedance match for transistor radio when used in place of earset. With Plastic insulated cord, pin tips. Imported. No. 32A9007.

\$2.49

4 TUBE STEREO PHONO AMPLIFIER

\$14.95

COMPLETE WITH TUBES



Low cost way to stereo. Use with any record changer or player with crystal or ceramic stereo phono cartridge. Excellent tone quality with speakers of your choice. 5 in. to 12 in. Versatile L shape permits mounting vertically or horizontally. Tubes: 2-12AV6; 2-50C5. Separate volume and tone controls for each channel. For 3.2 ohm speakers. 6 1/2" L. 2 1/4" W. 1 3/8" D. For 115 VAC. Shpg. wt. 4 lbs. No. 33A360. Complete with Tubes..... **\$14.95**

EARPHONE WITH 24 FOOT CORD

\$1.49

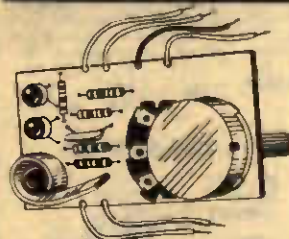


Low impedance earphone works with most TV's, recorders, radios and other solid state devices. With one miniature and one sub-miniature plug to fit practically any set. Special import value. No. 32A4044. Each

\$1.49

B-A SUPER BARGAIN VALUE!

SOLID STATE PHONO AMPLIFIER \$1.29



Use with crystal phono cartridge. Operates from 6 volt DC. 300 mw output. With volume control. Wire leads for easy connection. Wiring diagram supplied. Size: 1-3/8 x 1 1/4 x 2". No. 18A1591. 2 Each . **\$1.29** For... **\$1.99**

AUTOMOTIVE ACCESSORY EXTENSION CORDS

- ① Cigarette Lighter Plug to female lighter receptacle. 10 ft. cord for 6 or 12 V. No. 12A6118. Special Each **\$4.95**
- ② Battery Clips to female lighter receptacle. 10 ft. cord for 6 or 12 V. No. 12A6119. Special Each **\$4.95**
- ③ 6 ft. Extension Cord for portable cassette type recorders, radios, etc. With a 3.5 MM miniature plug. With reverse polarity plug. No. 12A6120. Special Each **\$2.95**
- ④ Same as above except with 2.5 MM coax plug. No. 12A6121. Special Each **\$2.95**

CAR STEREO NOISE SUPPRESSOR KIT

Effectively kills the interference or noise caused by ignition system or alternator in some cars. Kit contains choke and capacitor and easy to follow instructions for hook-up. No. 38A8020. Each **\$1.99**

AUTOMOBILE BATTERY ADAPTOR CORDS

Use your car or boat battery to power your tape recorder, dictating machine, portable radio or CB set! Plugs in cigarette lighter receptacle. Saves batteries—gives you full power, always! Transistor regulated circuit assures constant voltage. Max. current: 300mA. Comes with special adapter with 3 plugs to fit practically any set and has polarity reversing feature.

- No. 38A8021. 12 volt to 6 volt. Each..... **\$5.95**
No. 38A8022. 12 volt to 7 1/2 volt. Each..... **\$5.95**
No. 38A8023. 12 volt to 9 volt. Each..... **\$5.95**

FANTASTIC GIVE-AWAY PRICE!

CONTINUOUS LOOP TAPE MECHANISM

\$3.95



Another B-A bargain scoop Battery Powered record & playback. Continuous tape plays approximately 30 seconds, then repeats. Unlimited uses for building message reminders, toys and other gimmicks. Three position switch selects record, off and play function. Tone generator records a beep tone at end of tape loop. Switch can be disconnected to eliminate beep if desired. Dual purpose speaker-mike for recording and playback. Runs on 1 "D" and 1 9 volt battery (order below). Size 4 x 4 x 2" H. Shpg. wt. 2 lbs. Hurry while limited quantity lasts. No. 18A1509. Special Each..... **\$3.95**
No. 21A1. "D" Cell. Each..... **20c**
No. 21B141. 9 Volt battery. Each..... **54c**

BA BARGAINS!

AUDIO PLUGS AND JACKS

BRAND NEW FULLY GUARANTEED

PRICED FOR LESS!

MIKE CONNECTORS

- Wt. 2 oz.
- ① Standard 5/8"-27 cable type with universal ring. Use as male or female.
12A6032 59c 10 Each 53c
- ② Standard male chassis type.
12A6033 35c 10 Each 29c
- (1) Miniature Type. Same as used on many imported mikes. 7/16" O.D. Wt. 1 oz. Cable type with universal ring.
12A6034 49c 10 Each 44c

MICROPHONE EXTENSION CABLE KIT WITH TWO ADAPTORS

25 feet of heavy duty shielded microphone cable with standard microphone connectors on each end. Adaptors convert to 1/4" phone plug or 1/4" phone jack. Makes any PA system more flexible. Big Import Saving! Wt. 1 lb.
No. 33A6585. Special Each \$3.19

BIG SAVINGS ON 1/4" PHONE PLUGS



SLIM SHIELDED PLUG
Big savings on fine quality import. Two-way with solder lugs and cable clamp. Standard 1/4" plug and slim style chrome shell. Compare at over 80c. Wt. 3 oz.
No. 12A6030. 10 Lots, 59c Each 49c



SHIELDED FLAT PLUG
Best quality import. For 1/4" jacks where long plugs can't fit. Solder terminals. Wt. 2 oz.
No. 12A6084 59c 10 Each 54c



3-WAY PHONE PLUG
Finest quality import at a savings. Standard 1/4" plug with solder lugs. Black bakelite shell 3/4" dia. x 2" long. Wt. 2 oz.
No. 12A6031. Special Each 59c

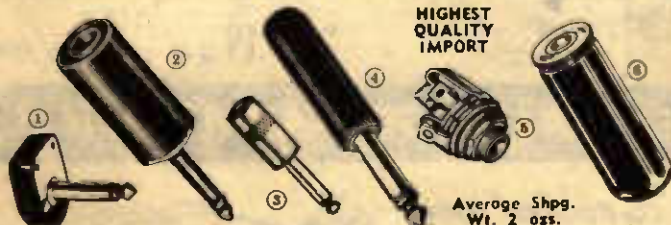


3-WAY FLAT PLUG
Fits 1/4" jacks like 12A6027 below.
No. 12A6068 59c 10 Each 53c



PLUG AND JACK SET
Latest style slim design. Standard 1/4" plug and jack combination only 3 1/2" x 1/2" overall. Special import value. Wt. 4 oz.
No. 12A6029. 10 Sets, 79c Per Set 71c

HIGH QUALITY 1/4 INCH PHONE PLUGS & JACKS



① **FLAT TYPE PLUG.** Two conductor. Use where space is limited. Protrudes only 1/4". Bakelite shell screw connectors. 10 Lots, 49c Each 44c

② **STANDARD TWO-CONDUCTOR PLUG.** For 1 or 2 pairs of phones with either pin tip or lug type cards. Bakelite barrel. 10 Lots, 49c Each 44c

③ **ALL METAL SHIELDED PLUG.** Another top quality import value. 1/2" x 1 1/8" nickel plate brass shell. Two-way with solder lug connections. 59c value. 10 Lots, 49c Each 44c

④ **MODERN SLIM DESIGN PHONE PLUG AT BIG SAVINGS.** Top quality import made. Neat 1/2" dia. x 1 3/8" long bakelite shell. Two-way with solder lug connections. Red and Black, please specify. 45c value. 10 Lots, 39c Net Each 35c

⑤ **STANDARD PHONE JACKS**
Mates with 1/4" plugs. Fits 3/8" hole. Universal closed or open circuit design. 12A1764 10 Lots, 34c Special Each 31c

⑥ **3-WAY PHONE JACK**
For stereo headsets, etc. Mates with 1/4" 3-way plug as above. No. 12A6027. 10 Lots, 44c Special Each 39c

⑦ **SLIM IN-LINE JACK.** Two circuit type for phone or mike extension use. Fits standard 1/4" phone plug. 1 3/4" long. 1/2" dia. Quality import. No. 12A6028 49c 10 Lots, 44c Each 44c

SHIELDED AUDIO ADAPTOR BARGAINS

IMPORTED FOR BIG SAVINGS



- ① 12A6012 RCA Pin Jack to 1/4" Phone Plug. Each 69c
- ② 12A6013 RCA Pin Jack to Miniature Phone Plug. Each 59c
- ③ 12A6014 RCA Pin Jack to RCA Pin Jack. Each 39c
- ④ 12A6015 1/4" Phone Jack to Miniature Phone Plug. Each 88c
- ⑤ 12A6016 1/4" Phone Jack to RCA Pin Plug. Each 69c
- ⑥ 12A6017 Y-Connector, 2 RCA Pin Jacks to RCA Pin Plug. Each 79c
- ⑦ 12A6018 Y-Connector, 2 RCA Pin Jacks to RCA Pin Plug. Each 88c
- ⑧ 12A6019 Universal Male or Female Mike to RCA Pin Plug. Each 69c
- ⑨ 12A6020 Universal Male or Female Mike to 1/4" Phone Jack. Each 88c
- ⑩ 12A6021 Universal Male or Female Mike to Miniature Phone Jack. Each 88c
- ⑪ 12A6022 Male Mike to 1/4" Phone Plug. Each 52c

SHIELDED MINIATURE ADAPTERS

Converts miniature to sub-miniature and vice-versa. Allows earsets or mikes with one size of connector to plug into jacks of other size. Wt. 2 oz.

- 12A6069. Input .140" jack, output .097" plug. Choice 69c
- 12A6070. Input .097" jack, output .140" plug. Each 69c

- ① Standard phone jack to RCA Phono jack. No. 12A6211. Each 69c
- ② Miniature phone jack to RCA Phono jack. No. 12A6212. Each 69c

3-PC. HANDY ADAPTER PLUG KIT

Easy way to convert patch cords to fit jacks on radios, recorders, amplifiers, etc. Adapts from miniature phone plug to standard RCA phono plug, from RCA phono plug to miniature phone plug and from miniature phone plug to standard 1/4" phone plug. Well made. Imported.
No. 12A6089. Wt. 4 oz. Special 3 pc. Kit. Each \$1.39

SHIELDED 9/64" MIN. IN-LINE JACK AND PLUG

- (1) No. 12A6071. Cable Connector Jack to mate 9/64" miniature plug.
- (2) No. 12A6088. Shielded 9/64" Miniature Plug.
- Your Choice 10 Lots 49c Each 59c Each 49c

MINIATURE PLUG & JACK SET

59c
Tiny size. Measures only 1 1/8" long overall x 1/8" dia. Solder type for 1/8" or smaller 2 cond. or shielded wire. Jack mounts in 1/4" hole in panel up to 1/8" thick. Wt. 2 oz.
No. 12A6036. 10 Sets, 49c Spec. Per Set 59c

ALL-SHIELDED PHONO CONNECTORS

Mates with standard RCA pin plugs and receptacles. Completely shields circuit. Makes installation neat and easy. Cable plugs have shell 3/8" dia. 1 1/2" long Chassis type mounts in 1/4" hole in panels up to 1/8" thick. Highest quality brass nickel plated construction. Av. Wt. 2 oz.

① No. 12A6085. Male Cable Plug. Each 39c 10 Ea. 35c

② No. 12A6086. Female Extension Jack. Each 44c 10 Ea. 39c

③ No. 12A6087. Chassis Jack. Each 23c 10 Ea. 20c

"DIN" SERIES PLUGS FOR EUROPEAN EQUIPMENT

Fits audio input and output jacks on many recorders, radios etc. made by Norelco, Wollensak, Uher, Telefunken, Korting, Dual, Kuba, Sony. Shielded metal shell, plastic cover, built-in strain relief.
No. 12A6065. Male Plug, 3-Pins. Special Each 69c

No. 12A6066. Male Plug, 5-Pins. Special Each 89c

PAIR 5 PRONG MALE AND FEMALE CABLE PLUGS

Handy for extending or adding to existing audio cables. Consists of 5 prong male cable plug above and mating female cable plug.
No. 12A6067. Pair For \$1.29

ADAPTOR CORD FOR EUROPEAN RECORDERS

Fits 3 and 5 Pin "DIN" Style connectors
For Norelco, Wollensak, VM, Grundig, Telefunken, Ampex and Bell & Howell Cassette recorders. 12" long with 2 RCA jacks and 3-pin DIN plug.
No. 32A4043. Special Each \$2.39

STEREO PATCH CORD

FOR NORELCO, WOLLENSAK, AMPLEX MICRO
Mates 5 pin European input-output socket on recorder. Provides 4 phono plugs on end of 36" shielded cables. Shpg. wt. 6 oz.
No. 33A6599 10 Each \$2.97
Special Each \$3.29

SAVE ON HIGH QUALITY HI-FI INTERCONNECTING CABLES



Finest quality featuring shielded silver-grey audio cable. Plugs and jacks molded directly with polyethylene for a more reliable trouble-free connection. Shpg. wt. 6 ozs. 30 ft. coils 1 lb.

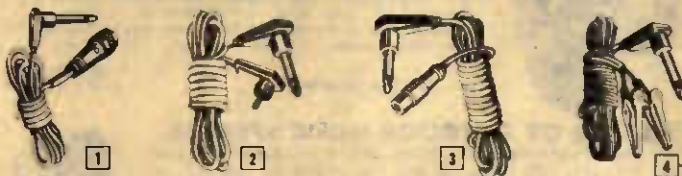
① PHONO PIN PLUG ONE END, STRIPPED & TINNED OTHER END
 No. 33A6565. 36". Each 69c No. 33A6567.15 Ft. Each \$1.19
 No. 33A6566. 72". Each 89c No. 33A6568. 30 Ft. Each \$2.49

② PHONO PIN PLUG BOTH ENDS
 No. 33A6569. 36". Each 79c No. 33A6571. 10 Ft. Each \$1.29
 No. 33A6570. 72". Each 99c No. 33A6572. 30 Ft. Each \$2.79

③ PHONO PIN PLUG ONE END, PHONO JACK OTHER END
 No. 33A6573. 72". Each 99c No. 33A6574. 30 Ft. Each \$2.69

PHONO PIN PLUG ONE END, PHONE PLUG OTHER (Not Illus.)
 No. 33A6575. 72". Each \$1.29 No. 33A6576.15 Ft. Each \$1.99

RIGHT ANGLE PLUG HI-FI CABLES



All top quality silver-grey audio cable with molded plugs. Used on music instruments, many amplifiers and speaker systems. ALL CABLES ARE 72" LONG. Shpg. Wt. 6 oz.

① No. 33A6607. 1/4" Phone Plug to Mike Connector. Net Each \$1.19
 ② No. 33A6608. 1/4" Phone Plug to Right Angle RCA Plug. Net Each 1.19
 ③ No. 33A6609. 1/4" Phone Plug to RCA Phono Jack. Net Each 1.19
 ④ No. 33A6610. 1/4" Phone Plug to Alligator Clips. Net Each 1.19

COILED HI-FI CONNECTING CABLES



No more unsightly dangling cords. Coiled audio cables with RCA plugs each end. Quality import. Shpg. wt. 8 oz.

No. 33A6583-72" Long. Each \$1.59

DUAL STEREO HI-FI CABLES



Neat single sheath encloses dual shielded cables. All cables have molded RCA phono plugs attached.

① No. 33A6611. 36"—RCA plugs one end, stripped other end. Net Each \$.99
 ② No. 33A6612. 72"—RCA plugs one end, stripped other end. Net Each \$1.29
 ③ No. 33A6613. 48"—RCA plugs both ends. Net Each \$1.29
 ④ No. 33A6614. 72"—RCA plugs both ends. Net Each \$1.69



72 INCH AUDIO HI-FI CONNECTING CABLES WITH MINIATURE PLUGS

Finest quality shielded silver-grey audio cables, plastic covered. All quality imports. Works with most Japanese recorders and radios. Average shpa. wt. 1/2 lb.

① Miniature molded plug one end to molded RCA type jack other end.
 No. 33A6577. Each \$1.29
 ② Miniature molded plug one end to standard molded phono plug other end.
 No. 33A6578. Each \$1.29
 ③ Miniature molded plug one end to RCA type pin plug other end.
 No. 33A6579. Each \$1.29
 ④ Miniature molded plug one end to standard shielded inline jack other end.
 No. 33A6580 Each \$1.59

TAPE RECORDER PATCH CORD

For recording direct from Radio, Phono or TV. Flexible 72" two conductor cable with attached insulated alligator clips and RCA pin plug. Comes with pin plug to phone plug adaptor. Wt. 8 oz.

No. 33A6586. Special Each. \$1.49

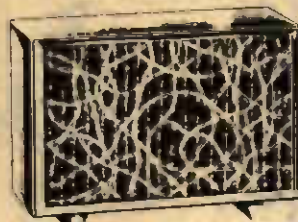
SMALL 2-COND. SPEAKER WIRE

Neat gray plastic insulated 2-wire parallel cable. Extra flexible with size 24 stranded copper conductors. Perfect for hi-fi and intercom installations. Easily concealed. Dia. only .058 x .115". Wt. per 1000 ft. 6 lbs.

No. 2C33 1000 Ft. \$1.89
 Per 100' For. \$12.95



WIDE RANGE SPEAKER



With built-in Volume Control ready to hook up to any radio, TV, phono, hi-fi, etc. Heavy duty 6 1/2" PM speaker 4-8 ohm. Walnut finish. Shpg. wt. 8 lbs.

33A3504. Import Special \$11.49

2-WAY SPEAKER SYSTEM

In Deluxe Walnut Enclosure Has high compliance woofer and super tweeter with powerful ferrite magnets. Response 40 to 18,000 Hz. -15 watts music rating. Small and mighty 9 1/4" sq., 3 1/4" D. 8 ohms. Wt. 4 lbs. Quality Import
 33A2041. Pair
 Spec. Each \$15.95 For. \$29.95

SLIM-LINE SPEAKER

WITH LEVEL CONTROL Excellent tone quality, fine appearance. Has volume control on outside of cabinet. Heavy duty speaker has 2.15 oz. magnet, 8 ohm voice coil. Walnut finished wood 9 1/4" x 9 1/4" tapering from 3 to 4". Quality import.
 33A2042. Pair
 Each \$13.95 For. \$26.95

4-INCH SPEAKER IN WOOD BAFFLE

Walnut finished natural wood miniature cabinet, closed at rear. 4" speaker with heavy magnet. 3.2 ohm V.C. Fine for intercom, remote or chairside TV-radio extension. 5 1/2" W. X 3 1/4" D. X 5 1/2" H. Shpg. wt. 2 lbs. No. 49A4004. Import Special \$4.99

FANTASTIC TUBULAR ACOUSTICAL SPEAKER

SOUND FLOWS FROM BOTH ENDS Absolutely amazing sound reproduction for hi-fi radio, auto rear seat, TV, etc. Midget plugs provided for transistor radios. 12" long, 3 3/4" dia. With 12 ft. cord. Shpg. wt. 5 lbs. No. 49A4000. Import Special, Each. \$3.88

HIGH FREQUENCY TWEETER

2-5/8" square, 1-5/8" deep, solid back. 8 ohms. Frequency response 3000-8000 Hz. Imported. Shpg. wt. 1 lb. No. 34A510. Each \$2.95

CEILING-WALL SPEAKER IN MOUNTING BAFFLE

Pipe music from radio, music system, etc. to any room of the house, office or plant, easily and economically. High quality speaker is premounted in beautiful baffle that surface mounts - no cutouts necessary - to ceiling or wall. 9 1/4" dia. 8 ohm imp. 3 watts. Shpg. wt. 4 lbs. Import value! No. 33A2177 Each \$9.95

POWER PLUGS AND ADAPTORS FOR IMPORTS

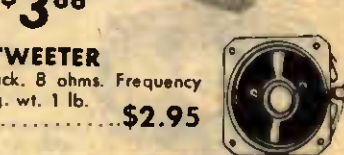
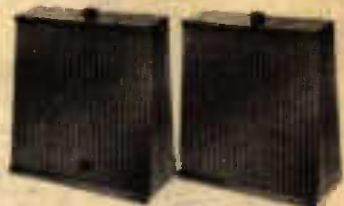
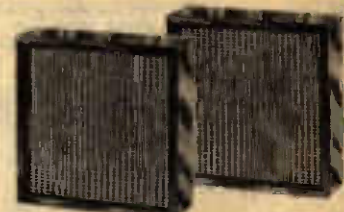


(1) 12A6064. Coaxial Power Plug. Standard for many walkie-talkies, recorders, radios. 1 large 2.5MM and 1 small 2.1 MM plug. Easily attached to power supply leads. Wt. 3 oz. Special, Pair 79c
 (2) 12A2492. Power Plug Adaptor. One end like 2.1 MM above, other has jack for sub-miniature .097" phone plug. Each 79c
 (3) 12A6122. 4-Way Adaptor Plug. For radios and cassette type recorders. 2.5 MM miniature, 2.1 and 2.5 MM coaxial power plugs and 3.5 MM miniature jack. Special Each \$1.95

BA BARGAINS!

SPEAKER SYSTEMS, CORDS, CONNECTORS

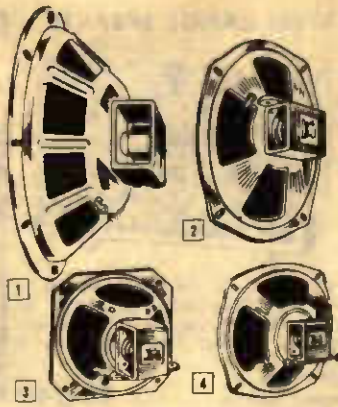
BRAND NEW FULLY GUARANTEED



BA BARGAINS!

SAVE ON SPEAKERS

BRAND NEW FULLY GUARANTEED

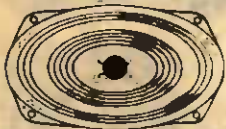


The measuring stick for speaker efficiency and its value is the Magnet Weight. Be sure you check when you compare prices. All have 3.2 ohm voice coils (except 34A422, 423 and 424 which are 6-8 ohm* and 18A1401 which is 45 ohm† for Intercoms).

Size	Mag. Wt. oz.	illus.	Depth	Shpg. Wt. Lbs.	Stk. No.	Each	10 @ Each
3"	1.00	3	2 1/4"	1/2	34A415	\$2.29	\$2.03
4"	1.00	3	2 3/4"	1/2	18A1400	1.39	1.29
4"x4"	.55	3	2 1/4"	1/2	18A1401	2.99	2.79
4"	1.47	3	2 1/2"	1/2	34A416	2.49	2.25
5"	1.47	4	2 3/4"	1	34A418	2.59	2.36
6"	2.18	4	2 3/4"	1 1/4	34A420	3.39	3.01
8"x8"	3.16	4	3 3/4"	1 1/2	34A422	4.98	4.43
8"x8"	6.8	4	4"	2	34A423	6.99	6.23
12"x12"	6.8	1	5 1/2"	3	34A424	9.49	8.42
2 1/2 x 10"	1.47	—	2 7/16"	1	34A413	3.99	3.56
4 x 6"	1.00	2	2 1/4"	3/4	34A425	2.69	2.42
5 x 7"	1.00	2	2 1/4"	1	34A426	2.99	2.68
4 x 8"	2.18	2	2 3/4"	1 1/2	34A509	4.99	4.46
6 x 9"	2.18	2	3 1/4"	1 1/2	34A427	4.89	3.58

May Be Assorted for Quantity Prices

MULTIPLE IMPEDANCE AUTOMOTIVE SPEAKERS



For Replacement or rear seat speaker installations. Readily adjusts for 10, 20 or 40 ohm impedance. Heavy 2.18 oz. cup magnets, 1" voice coil. Average shpg. wt. 1 lb. 6" Pin Cushion 2 1/4" Deep. Not illustrated. No. 34A388. Net Each \$4.30

No. 34A390. 4 x 10". 3" Deep. Net Each \$4.99
 No. 34A428. 5 x 7". 2-1/16" Deep. Net Each \$4.79
 No. 34A429. 6 x 9". 2 1/4" Deep. Net Each \$4.99

POWERFUL 10-WATT MULTIPLE IMPEDANCE 6x9"

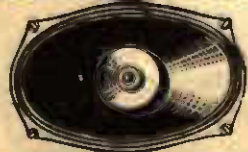


\$5.95

Big 6 oz. ceramic magnet for 10 watts of power. Whizzer cone for extended range tone. 3/4" V.C. Multiple Imp. 10, 20 or 40 ohms. Shallow mtg., 2 3/4". Wt. 1 1/2 lb. No. 34C209. Special Ea. \$5.95

No. 34A386. Extra Heavy Duty 6x9" Multi-Imped. Speaker. 10 oz. ceramic magnet. 1" voice coil, tweeter cone. Strictly Hi-Fi. Wt. 2 lbs. Each \$8.95

COMPARE B-A's LOW PRICE ANYWHERE!



\$4.95

SUPER DELUXE 6X9" SPEAKER HEAVY 10 OZ. MAGNET

Lowest price we've had for a 6x9 speaker with massive 10 oz. magnet. Built to take the power and volume of today's 8 track and stereo radios. Use in pairs for stereo. 2 1/2" tweeter cone. 8 ohm. Shpg. wt. 2 lbs.

No. 18A1580. Each \$4.95

B-A RED HOT VALUE!!

DELUXE 8-INCH HIGH FIDELITY SPEAKER

AMERICAN MADE

- 25 WATTS PEAK POWER
- 40-20,000 Hz. FREQ. RESPONSE

\$5.99



Top quality by one of America's leading speaker makers. Exceptionally fine performance. Will provide much better sound quality than ordinarily found in record players, TV sets, radios, etc. Also exceptionally well suited for hi-fi and PA multiple speaker systems or for hi-fi component systems where space is limited. Heavy-duty 10 oz. ferrite ceramic magnet produces 25 watts peak power. Freq. response 40-20,000 Hz. Full 1" V.C. Imp. 8 ohms. Only 3" deep, fine for in-wall installations. Shpg. wt. 2 lbs. No. 34A465. Special Each \$5.99 10 Lots Each \$5.49 25 Lots Each \$5.25

EXCEPTIONAL SPEAKER BARGAINS



WORLD FAMOUS NORELCO 8 INCH TWIN CONE HIGH FIDELITY SPEAKER

NORELCO 6 X 9 INCH TWIN-CONE HIGH FIDELITY SPEAKER



ONLY \$3.95

You would usually expect to pay 3 times as much for equal quality. Ideal replacement for older type speaker in record players, TV sets, radios, etc., or for hi-fi systems where space is limited. Handles up to 10 watts. Frequency response 60-18,000 Hz. Impedance 8 ohms. No. 33A2050. Special Each \$4.99

Here's your chance to up-grade any TV set, auto radio dash or rear seat speaker or hi-fi installation at big savings! 5 oz. Ferroxdure magnet structure—more powerful than conventional ceramic magnets. 8 ohm. 2 3/4" thick. Range 65-18,000 Hz. No. 34A435. Special Each \$3.95

12-INCH GUITAR SPEAKER



Special design for optimum performance with guitars and other musical instruments. High efficiency for clear distortion-free sound at high volume. Exceptionally well made. Heavy basket frame and special cone designed for bass note reproduction of guitars. Made for B-A by a top American manufacturer. 8 ohm impedance. 6.8 oz. magnet, 1 1/2" voice coil. Shpg. wt. 5 lbs. No. 34B224. Special Buy \$10.95

INDOOR OR OUTDOOR MUSIC SPEAKER

5 1/4" 5 watt weatherproof speaker. Brown woodgrain appearance. Response 300 to 10,000 Hz. Fine choice for intercom or paging. Tilting mounting bracket. 8 ohm. Shpg. wt. 1 1/2 lbs. No. 34A7010. Each \$9.95



STEREO SPEAKER WALL PLATE COMPLETE WITH TWO 1/4-INCH PLUGS

New Ivory wall plate with two 1/4" phone jacks mounted. Hardware supplied for use with standard outlet box or dry wall mounting. Two 1/4" phone plugs included. Size 2 3/4 x 4 1/2". Wt. 1/2 lb. No. 33A6616. Special Each \$1.99



Y-CONNECTOR CORD FOR TWO STEREO PHONES

Use 2 pairs of stereo phones at the same time from a single amplifier output. High quality 3-way plug and two 3-way jacks, 36" overall. No. 33A6598. Special Each \$2.99



CLOSED CIRCUIT STEREO PHONE JACK ONLY

Fits 1/4" 2 or 3 circuit plug. Can be wired to disconnect speakers when plug is inserted. No. 12A6091. Each 89c 10 Lots Each 79c

LOW PRICES ON SPEAKER CONTROLS



① Level Controls (L-Pads). For adjusting and matching the listening levels of 2 or more speakers. Silver and black 2 1/2 x 2" plate, with black plastic knob. Mounts in panels to 3/4". Wt. 3 oz. No. 14A1137. 8 ohm. Import. Each \$1.96

② Multiple Speaker Switch. For centralized "on-off" control of up to 6 remote speakers. 3 1/2" W. x 2 3/8" H. gold tone mtg. plate with 6 SPDT slide switches. Requires 1/8" behind panel. Wt. 4 oz. No. 19A7183. Special Each \$1.99

③ Remote Speaker Fader Control. Controls both speakers, main and remote from one location. 2 1/8 x 2 1/8" gold tone mounting plate. Requires 3/8" depth behind panel. Wt. 3 oz. No. 19A7184. Special Each .99c 3 Lots, Each .79c

④ 8 Ohm L-Pad. Insert in line between amplifier and speaker to adjust speaker volume independently of other speakers in the system. Handles speaker power to 6 watts. 1/4" shaft, 3/8" long, 3/8" bushing. Shpg. wt. 6 ozs. No. 14A1136. Special Each \$1.39 4 For \$5.00

AUTO STEREO SPEAKER CONTROL

Adjusts the output of the stereo system from the front to the rear speakers using the newest type slide controls. With mtg. hdwe. and instructions. No. 19A7362. Each \$4.95

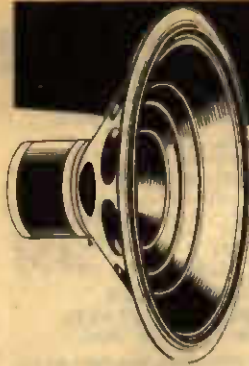


REAR SEAT SPEAKER CONTROLS

For switching between dual speakers such as auto rear seat and front seat speakers; TV, radio, etc. Operates either speaker separately or both together. No. 19A7108. Centralab PK-300. Each \$1.16 No. 19A7187. Wired Fader Control Kit. For intermixing front and rear speakers. Shpg. Wt. 3 oz. Net Each \$1.76



SAVE! NORELCO HIGH-FIDELITY SPEAKERS



WORLD FAMOUS SUPER DELUXE 12-IN. TWIN CONE SPEAKER **\$29⁸⁸**

Norelco's best—compare with speakers costing \$70 to \$100. Famous twin-cone design incorporating Ticonal VII, the most powerful of modern magnet alloys. Extra high flux density (11,000 gauss) for exceptional transient response, maximum efficiency (14% at 400 Hz.) and damping. Conservatively rated 35 to 18,000 Hz with power handling capacity also conservatively rated 30 watts peak. V.C. 8 ohms. Shpg. wt. 10 lbs.

COMPARE AT \$70 to \$100! No. 34A204. Special Each ... **\$29.88** ² For ... **\$54.50**

NORELCO 12-INCH TWIN-CONE

Amazing value! Performance surpasses speakers priced at over double B-A's low, low special purchase price! Provides unusually clean response over entire audio spectrum—deep bass and silky smooth highs... freq. response 40 to 15,000 Hz. Powerful ferroxdure ceramic magnet produces 15 watts peak power. Extra high flux density of 42,600 maxwells. Will match 4-8 ohm amplifier output. Wt. 5 lbs.

No. 33A2024. **\$12.88** ² For ... **\$19.50**
Net Each

NORELCO 5 INCH SPEAKER WITH WHIZZER CONE

One of the best 5" speakers you'll ever hear! Excellent for auto stereo, replacement in TV or recorders, or for building "sweet sixteens." 5 oz. Ferroxdure magnet. Response 80 to 20,000 Hz. 8 ohm impedance. Shpg. wt. 1 lb.

No. 33A2093. **\$3.29** ^{6 Lots} Each ... **\$2.99**

NORELCO 1 INCH DOME TWEETER WITH 10 OZ. CERAMIC MAGNET

One of the finest tweeters we've ever seen! Reproduces 1500 Hz to over 20 KHz in 2 or 3-way systems. Handles 40 watts power. 8 ohm impedance. Mylar diaphragm. Width 3 3/8". Requires 3" mounting hole. Shpg. wt. 2 lbs.

No. 33A2094. **\$8.60** ^{Pair} For ... **\$16.00**
Each

Norelco

HIGH COMPLIANCE WOOFERS WITH BUTYL-RUBBER ROLLED EDGE SUSPENSION

12 INCH \$19⁹⁵ EACH

The rolled rubber edge has to be one of the finest improvements ever made in woofer speakers. Outperforms speakers costing two or three times our low price!

12 INCH WOOFER. 1 lb. very sensitive Ferroxdure magnet system. Bass response to 20 Hz. 40 watt power rating. 5 1/4" deep. 8 ohm impedance. Wt. 4 1/2 lbs.

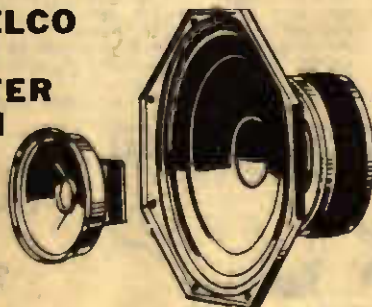
No. 33A2096. **\$19.95** ^{Pair} For ... **\$38.00**
Each

8 INCH WOOFER. 12 oz. very sensitive Ferroxdure magnet system. Bass response to 30 Hz. 20 watt power rating. 8 ohm impedance. 3 1/2" deep. Shpg. wt. 2 1/4 lbs.

No. 33A2095. **\$9.95** ^{Pair} For ... **\$18.00**
Each

10 WATT NORELCO 5" WOOFER AND 2 1/4" TWEETER COMBINATION

\$7⁹⁵



Highest quality, made in Holland.

Designed for small enclosures, book-shelf speaker systems, etc. Maximum enclosure size 3 litres.

5" Woofer—Response 38 to 2,000 Hz. Has rigid cone with highly flexible butyl-rubber cone suspension. Massive Ferroxdure ceramic magnet structure provides extremely high efficiency. Voice coil impedance 8 ohms.

2 1/4" Tweeter—Response 800 Hz to 19 KHz. Supplied with capacitor for cross-over from 8 ohm source. Utilizes square 20 gram Ferroxdure ceramic magnet. Baffle hole diameter 52 mm. Wt. 3 lbs.

No. 34A434. Combination Woofer-Tweeter, Special. **\$7.95**



2-WAY CROSSOVER WITH LEVEL CONTROL

\$5⁹⁵

Fine appearance. Comes assembled on sturdy finished metal panel, ready to install on your speaker enclosure. Features high quality L/C type network with tweeter level control. Crossover point, 3000 Hz. Impedance 8 ohms. Convenient push type, spring-loaded binding posts. Size 4 x 5 1/2". black enameled, gold lettering. Attached 3 ft. leads. Wt. 1 lb.

No. 33A6597. **\$5.95**
Special Each

MINIATURE HI-FI EXTENSION SPEAKER IN DELUXE HAND-RUBBED WALNUT CABINET

Low cost hi-fi quality extension speaker is perfect addition to home stereo systems. Beautifully finished hand-rubbed walnut on all 4 sides provides for optimum placement. Contains 4" 8 ohm heavy duty speaker. Wall mounting bracket supplied. Size: 5 1/8" H. X 7 1/2" W. X 3 1/4" D. Shpg. wt. 1 1/2 lbs.

No. 33A2097. Special Each **\$5.95**



HIGH EFFICIENCY 8 INCH SPEAKER SPECIALLY DESIGNED AND LOW PRICED FOR MULTIPLE SPEAKER INSTALLATIONS

Real good buy! Save over 50%. Perfect for restaurants, doctors offices, business establishments, homes... anywhere multiple speakers are used for background music, low level paging systems, etc. High efficiency design provides excellent response from even the lowest powered amplifiers. Shallow construction, only 2 1/8" deep. 2.4 oz. ferrite magnet. Impedance 8 ohm.

Made in U.S.A. Shpg. wt. 1 1/4 lbs.
No. 34A401 **\$3.49** ^{10 Lots} Each ... **\$2.99**
Spec. Ea.

COMPARE AT OVER \$4.00



INTERCOM — OUTDOOR THEATRE SPEAKERS

Weather resistant type with 1.47 oz. Alnico magnet.

Correct impedance for many transistorized devices. 45 ohm. Perfect intercom or theatre replacement.

No. 18A1369. 4-Inch. Wt. 1/2 lb.

Special **\$3.29** ¹⁰ Each ... **\$2.99**

No. 18A1370. 6-Inch. Wt. 2 lb.

Special **\$2.69** ¹⁰ Each ... **\$2.49**



GIANT 15-INCH FULL RANGE SPEAKER

Absolutely amazing performance at surprising low cost. Outperforms speakers usually costing much, much more. Big power handling capacity of 25 watts with extra heavy duty 6.8 oz. Alnico V magnet. Faithfully reproduces clean rich bass tones to 30 Hz, with high frequency range extending to over 13,000 Hz. Full 1" voice coil. 8 ohm imp. Depth 5 1/2". Wt. 6 lbs.

No. 34C211. **\$10.95**

Special Each **\$18.95**
Pair



2 FOR \$18.95

\$10⁹⁵

ANOTHER FABULOUS BUY 15-IN. TWIN-CONE HI-FI SPEAKER

BUILT FOR ELECTRONIC ORGANS BY TOP SPEAKER MANUFACTURER

WORTH AT LEAST **\$30.00**

AMERICAN MADE

\$17⁷⁵

HANDLES UP TO 30-WATTS MUSIC POWER

A terrific speaker at considerably less than its usual price! Built by quality conscious maker for the wide-range and high-power sound requirements of electronic organs. Designed for top hi-fi performance with lb. Alnico V magnet and rugged frame. Sound response is smooth over entire tonal range. Provides unusually low bass response, sparkling crisp highs. Range 20-15,000 Hz. V.C. imp. 8 ohms. 6 1/2" deep.

2 Cones to Broaden Frequency Range



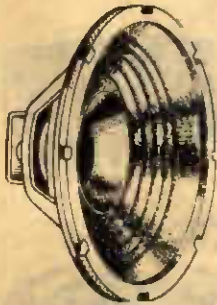
Powerful 2 Pound Magnet

\$17.75

BA BARGAINS!

HI-FI SPEAKERS AND TWEETERS

BRAND NEW FULLY GUARANTEED



12-INCH TWIN CONE HI-FI SPEAKER

Best buy ever for budget minded music lovers. Astonishingly smooth, wide-range reproduction. Top quality American made by leading speaker manufacturer. High efficiency, provides plenty of volume with low power amplifiers. Fine for low cost component systems, console replacement speakers and public address. Heavy Alnico V magnet handles 10 watts power with a frequency response of 40-15,000 Hz. Full 1" voice coil. 8 ohms impedance. Shpg. wt. 4 lbs. Low price made possible by B-A's large special purchase quantity. No. 33A2049 Pair Special Each \$8.95 For \$15.95

CROSSOVER NETWORK CAPACITORS



15A5003-2 Mf Choice
15A5004-4 Mf Each
15A5005-8 Mf 49c



5-INCH PARABOLIC CONE TWEETER WITH CROSSOVER INCLUDED

Extends range of any 4 to 8 ohm speaker from 5000 Hz. to 20,000 Hz. Features a hard parabolic cone to reproduce all high frequency ranges cleanly without cone "break-up". High efficiency from 1.64 oz. Alnico V magnet matches even the most efficient low-frequency speakers. Handles 15 watts average audio power. Includes capacitor crossover and diagram for connecting to existing speakers. Wt. 2 lbs. WORTH MANY TIMES OUR PRICE! No. 34A412. Tweeter and Crossover \$2.95

SPECIAL VALUE VOLUMETRIC SPEAKERS

4-INCH HIGH COMPLIANCE SPEAKER

- Acoustic suspension.
- Full range 10 watt.
- Response: 35-16,000 Hz.

Powerful ceramic magnet develops over 10,000 gauss. Recommended cabinet size 8 1/4 x 8 x 6 1/8" Impedance 8 ohms. Shpg. wt. 5 lbs. No. 34A403. Special Each \$8.95



HIGHEST QUALITY IMPORT

\$8.95

HIGHEST QUALITY IMPORT

\$10.95



6-INCH HIGH COMPLIANCE SPEAKER WITH WHIZZER CONE

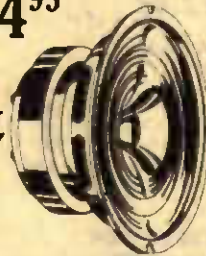
- Ideal for solid state and tube amplifiers alike.
- Response: 35-18,000 Hz.
- Power capacity 20 watts.

Large cone with flexible cloth edge provides more power in the low frequency range. Impedance 8 ohm. Recommended cabinet size is 7 1/8 x 11 3/4 x 6 1/2" Shpg. wt. 6 lbs. No. 34A408. Special Each \$10.95

8-INCH HIGH COMPLIANCE VOLUMETRIC SPEAKER WITH WHIZZER CONE

- Power capacity 30 watts.
- Frequency response 30-20,000 Hz.
- Ferrite magnet.

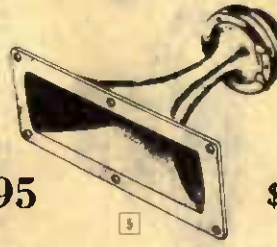
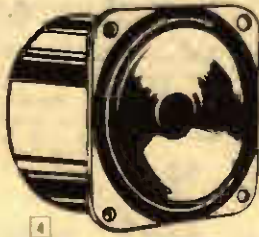
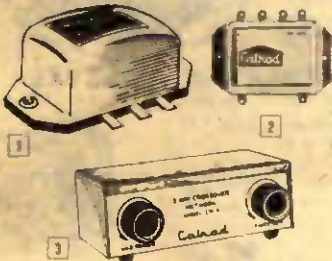
Latest design, powerful ferrite magnet, and soft cloth edge has made this speaker comparable to most speakers of larger size. Beautiful reproduction of the entire audio spectrum. Impedance 8 ohms. Extends 3 1/2" deep. Shpg. wt. 10 lbs. No. 34A409. Special Each \$14.95



\$14.95

HIGHEST QUALITY IMPORT

SAVE ON COMPONENTS FOR 2, 3 AND 4-WAY SPEAKER SYSTEMS



① TWO-WAY LC CROSSOVER NETWORKS
Compact Inductive-Capacitive Network feeds frequencies above 3000 Hz. to tweeter, below 3000 Hz. to woofer. Insertion loss only 1 db. Solder lug terminals for amplifier, woofer, tweeter. 8 ohms. No. 33A6513. 3 1/2" x 2 x 1 3/8". Shpg. wt. 8 oz. Net Each \$3.95

② THREE-WAY CROSSOVER NETWORK
Dividing audio signals between woofer, midrange and tweeter. Simplified L.C. circuit, crossover frequencies 2,500-6,600 Hz. Imped. 8 ohm. No. 33A6676. Shpg. wt. 1 lb. Quality Import. Each \$4.95

③ UNIVERSAL DIVIDING 3-WAY NETWORK
Two built-in L-pad type adjustments for use in balancing speakers of different efficiencies. Crossover points are 500 and 3,300 Hz with attenuation of 6 db per octave. Wiring diagram and instructions included. Size: 5 3/4" long, 3 3/4" wide, 2 3/4" high. No. 33A6650. Shpg. wt. 2 lbs. Net Each \$11.95

④ DELUXE EXTRA HEAVY MAGNET 3 1/2-INCH CONE TWEETER
Like used in expensive hi-fi speaker systems. Direct radiating cone type tweeter with damping to prevent peaking and metallic harshness. Enclosed back prevents interaction between other speakers. Heavy 3 oz. ferrite magnet. Frequency response 2000-18,000 Hz. 3/4 inch V.C. 8 ohms impedance. 3 1/2" x 3 1/2" x 2 1/8" deep. Shpg. wt. 1 lb. No. 33A2040. Special Net Each \$4.95

⑤ HORN LOADED COMPRESSION TWEETER
Actually the price belies the quality. Here is an exceptional value! Same acoustic design as used with the more expensive speaker systems.

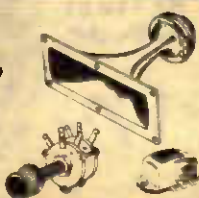
Long throat modified hyperbolic horn provides wide angle high frequency sound dispersion and is compression loaded to flatten the response curve. Handles 20 watts of power with a flat frequency response from 2000 to 20,000 Hz. Full 1" V.C. Imp at 4000 Hz. 8 ohm. 3x7 1/4" flange requires 2x6" baffle cutout. 6 1/8" deep. Low-lustre black and metallic gold. Shpg. wt. 2 1/2 lbs. American made. No. 33A2029. Special Net Each \$8.95

⑥ EXPONENTIAL HORN TYPE MID-RANGE TWEETER
Fills the need for mid-range horn in 3-way speaker systems or mid-range and tweeter in 2-way systems. Same type as used in costly home and theatre systems... at a small fraction of their usual cost. Long 10" horn with 3x9 1/2" mouth reproduces 900-20,000 Hz. smoothly, cleanly, and efficiently... free of "humps" or "peaks" in the response curve, without distortion, and with high output to match even large woofers. 4x10 1/2" flange requires 3x9" cutout. 20 watt power rating. Low-lustre black and metallic gold. Overall length 11 1/2". No. 33A2030. Shpg. wt. 4 lbs. Net Each \$9.95

BUILD 2 OR 3-WAY SPEAKER SYSTEMS WITH THESE B-A STEP-UP KITS

REGULAR B-A LOW COST \$14.29

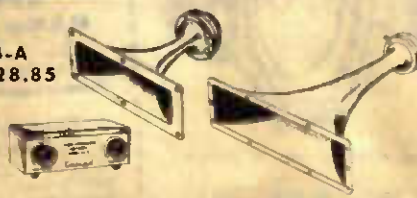
\$10.95



HIGH FREQUENCY STEP-UP KIT NO. 1
Extends the range of single voice-coil speakers to beyond the range of audibility. Consists of Tweeter, 2-Way Crossover, and L-Pad for tweeter volume control. No. 33A2031. Wt. 3 1/2 lbs. Special Each \$10.95

REGULAR B-A LOW COST \$28.85

\$24.95



COMBINATION MID-RANGE AND HIGH FREQUENCY STEP-UP KIT FOR 3-WAY SPEAKER SYSTEM
Consists of Tweeter, Mid-Range speaker and 3-way Crossover with 2 built-in L-Pads for mid-range and tweeter volume controls. Diagram included. Wt. 9 lbs. No. 33A2098. Each \$24.95

3 1/2 INCH TWEETER

\$4.99



Heavy 4.8 oz. ceramic magnet. Extend range of your speaker system to 20,000 Hz. Mechanically damped to reproduce only the high frequencies. 1 1/4" deep, dia. including mounting flange 4 1/2". Wt. 1 1/2 lbs. American made. No. 34A466 Special Each \$4.99

STEREO HEADPHONES FOR ADDED LISTENING PLEASURE

MICOTRON HIGH FIDELITY STEREO HEADPHONES



\$29⁹⁵ PROFESSIONAL QUALITY STEREO HEADPHONES

Individual volume controls for convenience. 2 1/4" dynamic elements provide outstanding bass reproduction, high-low separation. Removable foam-filled vinyl ear cushions, padded headband, adjustable stainless steel frame. 20-20,000 Hz response, 8 ohm impedance. 12 ft. coiled cord, 3-conductor 1/4" plug. Wt. 15 oz.
No. 33A6704
Model 17-008. Each ... **\$29.95**

DELUXE STEREO HEADPHONES

Full-dimensional sound from 2 1/2" dynamic elements plus convenient individual volume controls. Removable foam-filled ear cushions, padded headband, adjustable swivel frame. 20-18,000 Hz response, 8 ohm impedance. 10 ft. coiled cord, 3-conductor 1/4" plug. Wt. 18 oz.
No. 33A6705.
Model 17-005. Ea. **\$14.95**



\$14⁹⁵

CUSTOM STEREO HEADPHONES

2 1/4" dynamic elements give crisp stereo reproduction. Removable foam-filled ear cushions, adjustable frame. 25-15,000 Hz response, 8 ohm impedance. 6 ft. cord, 3-conductor 1/4" plug. Wt. 19 oz.
No. 33A6706
Model 17-0018. Each **\$8.99**



\$8⁹⁹

KOSS QUADRAFONES

Four Koss dynamic driver elements for full-dimensional quadraphonic sound. Four channel sound from matrix or discrete systems. 4 channel to 2 channel selector. Slide type volume balance controls on each earcup. Frequency response 20-17,000 Hz. Foam filled vinyl cushions. 10 ft. coiled cord.
No. 33A6709. Each ... **\$39.95**



\$39⁹⁵

Panasonic STEREO HEADPHONES



Model EAH-40. Superior personal headphone set with twin 2-way 3" and 2" speakers. Separate volume and tone controls. Gives you fullest, most exciting personal listening pleasure. Reproduces from 16 to 22,000 Hz for finest music quality. The EAH-40 is sure to be one of your favorite pieces of stereo equipment.
No. 33A6701. Each ... **\$42.95**

Model EAH-20. Personal headphone set with two 3" speakers. The EAH-20 delivers fine, clear stereo sound. With frequency response from 50 to 17,000 Hz. An exciting way to listen to your favorite music. Removable earpads for easy cleaning.
No. 33A6668. Each **\$22.88**



PROFESSIONAL QUALITY HEADPHONES

\$19⁹⁵

Separate volume control on each earphone provides adjustment for professional full dimensional stereo sound. Foam filled ear cushions, on swivel frame for maximum comfort. are removable for easy cleaning. Frequency response 20 to 18,000 Hz from 3 inch dynamic elements. Foam padded headband adjusts for perfect fit. Black with stainless steel frame. 8 ohm impedance. With 10 foot coiled cord and standard 3 conductor 1/4" stereo phone plug. Durable stitching assures long wear for cushions and headband. Weight 18 oz.
No. 33A6674. Each..... **\$19.95**

DYNAMIC STEREO HEADPHONES

Makes realistic sound possible! Listening level, is easily adjustable with volume control in each phone. Wide frequency range, low distortion, high sensitivity, full range unit. Special leather vinyl-covered headband and phonepad permits listening without fatigue. Easy to clean vinyl.

Specifications: Sensitivity: 115 db at 1,000 Hz. 1 mW. Frequency response: 15 to 23,000 Hz. Impedance: 8 ohms, each channel.

Complete with 13 ft. coiled cord with 3 conductor stereo phone plug. Wt. 1 1/2 lbs.
No. 33A6651. **\$26.95**

Each



\$26⁹⁵

JUNCTION BOX WITH SLIDE CONTROLS



FOR STEREO OR MONAURAL

Two headphone jacks to operate 2 pairs of headphones at the same time. 15-ft. coiled cord with plug.
No. 33A6708. Each **\$9.95**

STEREO HEADPHONE EXTENSION CORD

\$2.49



20 Ft. gray extension cord with 3 circuit plug and jack. Wt. 10 oz.
No. 33A6601. Each

\$2.49

25 Ft. 3-Cond. Coiled Cord.
No. 33A6677. Each

\$3.95



STEREO HEADPHONE JUNCTION BOX FINEST IMPORT

Connects to amplifier speaker terminals. Has change-over switch for speaker or phones, stereo phone jack. 36" leads. In gray plastic enclosure. Built-in attenuator prevents headphone overload. Finest import.
No. 33A6508. Net Each..... **\$3.49**

REMOTE CONTROL STEREO LISTENING STATION

Stereophone control center for stereo or most music systems. Provides extra convenience of separate level control for each channel right at your easy chair. Has stereo jacks for two sets of stereophones and speaker off-on switch for private listening. In attractive walnut grain cabinet. Screw terminals for amplifier and speakers. Size 4 3/4 x 2 7/8 x 1 3/4" H.
No. 33A6615. Wt. 2 lbs. **\$8.50**
Each

Quality Import



PERSONAL PILLOW SPEAKER

\$7⁹⁵

Fine sound quality for private listening. Ceramic element and plastic diaphragm fitted into 2 1/4" diameter case. 60" cord, standard 1/4" plug. Fits most radios and recorders.
No. 33A6710.
Each **\$1.95**



BA BARGAINS!

MICROPHONES & ACCESSORIES

BRAND NEW FULLY GUARANTEED

CRYSTAL LAPEL MIKE

\$2.39

TINY... CONCEAL IN HAND OR CLIP TO CLOTHING



① CRYSTAL LAPEL MIKE. A natural for experimenters. Non-directional and gives crisp, clear speech reproduction. Hi-impedance, hi-output type with spring clip for attaching. Weighs only 2 oz. Brushed bright metal case 1 3/8" dia., 3/4" thick with 55" cable. Shpg. wt. 8 oz. No. 29A610. 3 Lots \$2.39 Each \$2.19

② MINIATURE "CLIP-MIKE" Attaches anywhere! Works with every type of cassette or reel style tape recorder. Picks up sound clearly. Clip attaches to tie or clothing. Gold plated, size 1 5/8 x 3/8". Wt. 1 oz. With miniature plug. No. 29A647. Net Each \$6.95

FINE MICROPHONE ACCESSORIES

B-A LEADER VALUE MIKE FLOOR STAND

\$7.99

Full size brass tube stem is high-gloss double chrome plated. Easily adjustable from 35" to 64" in height by simple, damage-proof one-hand clutch, without war or scratch on the chrome tubes. Weighted 10" dia. base is finished in baked wrinkle enamel, has pads to prevent floor mars, 3/8"-27 thread. Shpg. wt. 9 lbs. No. 29A7008. Net Each \$7.99

YOU CAN'T GET MORE STAND FOR THE MONEY!

QUICK MIKE-TO-STAND ADAPTOR

Needed accessory for musical groups, singers, announcers, interviewers, etc. Fits any standard 3/8"-27 mike and stand. Two-piece chrome finished adaptor has ball stop to hold mike on stand securely. Simply lifting mike releases it for hand held use. No. 29A506. Import Special, Each \$1.39

DESK MIKE STAND

Beautifully made import with 3/8" x 27 thread to fit all standard mikes. Gray plastic 5 inch diameter base with chrome finished 3 1/2" rod. Stays upright even with heavy mike. Shpg. wt. 1/2 lb. No. 29B228. Special Each \$1.69

BOOM ATTACHMENT

Centers mike over pickup area. Attach to 3/8"-27 stand. For piano and similar uses where regular mike stand can't be used. 32 inch chrome plated boom. Wt. 3 1/2 lbs. No. 29A7000. Net Each \$6.49

SLIDE-IN MIKE STAND HOLDER

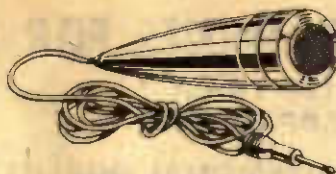
Fits threaded 3/8"-27 stand. Holds securely yet allows quick removal of mike for hand held use. Wt. 2 oz. No. 29A3028—For 3/8" Mike No. 29A3029—For 1" Mike Your Choice—Each \$1.79

JIFFY PHONE PICKUP COIL



\$1.49

Jiffy suction cup attaches to side of telephone or to back of handset. Does not interfere with telephone operation. With shielded cable. Giant import savings! No. 11A1057. Special Each \$1.49



HI OUTPUT CRYSTAL MIKE

\$3.95

Rugged die-cast case with brushed finish. 20 ft. cable with molded 1/4" phone plug attached. 5" long. 1 1/2" dia. Hi-impedance. Low cost for experimenters use. For public address, recording, etc. Shpg. wt. 1 lb. No. 18A1577. Each \$3.95



\$1.59 TERRIFIC VALUE!

MINIATURE CRYSTAL MIKES

Only 1" dia. x 1 1/8" deep—perfect for concealed location uses. Also fine as replacement cartridge for regular crystal mikes. Extremely sensitive with good output. High impedance. Import mode. Wt. 3 oz. No. 29A3031. Special Each \$1.59 As above 2" diameter. No. 29A3032. Special Each \$1.99

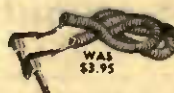


SENSITIVE DYNAMIC MICROPHONE 88c

TINY SIZE DIA. ONLY 1 3/4"

B-A Buyers are constantly on the alert for unusual "finds" priced right for the electronic hobbyist. Such an item is this dandy little microphone/speaker with coupling transformer. Has many uses as a mike replacement cartridge, as an extra sensitive sound pickup device. Tiny transformer supplied for high impedance 100,000 ohm amplifier input. Wt. 4 oz. No. 18C609. Special 88c

GUITAR CABLES RETRACTABLE SHIELDED CABLES



Extends to 15 feet, retracts to 3 feet. Extremely flexible. Both ends angle phone plugs. Shpg. wt. 1 lb. No. 33A6584. Special Each \$2.19 New 25 ft. shielded retractable cord. Retracts to 4 feet. Plugs as above. Wt. 1 lb. No. 33A6596. Special Each \$3.29

MIKE EXTENSION CABLE



8 ft. shielded cable with universal male/female connectors each end. Top quality. Made in U.S.A. No. 18A1573 3 @ Each \$1.29 99c

MAGNETIC MOBILE MIKE HOLDER



Powerful ceramic magnet secures bracket to any steel surface, on transceiver or auto dash. Fits all standard microphones equipped with hanger button. No. 29A3030. Special Each 95c



4-CHANNEL TRANSISTORIZED Audio Mixer Amplifier FOR RECORDING, PA, AUDIO EXPERIMENTING \$10.95

Adapts one to 4 high impedance sound sources, microphones, tuners, phonographs, recorders, etc. into a single high impedance input at your recorder or amplifier. Hum-free battery powered wide range transistor amplifier provides additional gain as desired. Separate gain controls for each channel allow mixing and fading without interaction. Input jacks are standard phone plug type; output, phone pin jack. In gold finished case 5 1/8 x 2 3/4 x 2" H. with brown and gold knobs and mar-proof rubber feet. Shpg. wt. 2 lbs. No. 29A411. Imported at Big Savings. Special Each \$10.95

STEREO VERSION OF ABOVE. Same basic principles as unit above but has dual stereo circuits. Adapts 2 separate sets of 2 high impedance sound sources, microphones, tuners, phone records, etc. into two single high impedance inputs at your stereo recorder or amplifier. Shpg. wt. 2 lbs. No. 29A3027. Import Special \$12.95

MURA WX172 WIRELESS MICROPHONE



\$24.88

FCC Approved. Transmits through any FM tuner or radio. Static-free performance. Solid state circuit. Fully shielded. Range 88 MHz to 106 MHz. Will not drift. Compact 6 1/4 x 1 1/4 x 1". Lightweight 5 1/4 oz. net. Shpg. wt. 1 1/2 lbs. Uses 9 volt transistor battery (not supplied). Mura Model WX172. No. 29A692. Each \$24.88 No. 218141. 9 Volt Battery. Each 54c

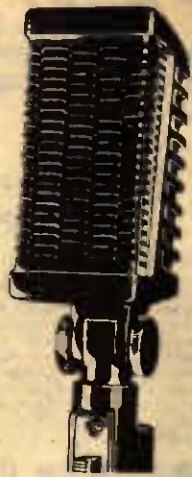
CARDIOID DYNAMIC MICROPHONE
SINGLE DIRECTION PICK-UP
DUAL IMPEDANCE

WHILE LIMITED SUPPLY LASTS **\$8.95**

Was one of our best sellers at regular \$13.95 price! B-A bought the remaining warehouse quantity in order to pass along this terrific saving.

Fine for PA, recording, both voice and music. Will stop or greatly reduce feed-back howl on PA systems and allow greater working distance from mike. Quickly changed from regular high impedance to 50 ohm low impedance, allowing long mike lines without frequency loss. Has on-off switch and detachable cable. Flat response 60-12,000 Hz. Output -62 db. Swivel mounting for 3/8"-27 stands. Shpg. wt. 1 1/2 lb. No. 29A604. Spec. Ea. **\$8.95**

100's SOLD AT \$13.95



25 FOOT MIKE AUDIO EXTENSION CABLE

\$2.99



FULLY SHIELDED Standard 1/4" phone plug with plastic finger grip and portable jack molded to flexible plastic silver-grey shielded mike cable. Wt. 1 lb. No. 2A233. Special Each... **\$2.99**

BA BARGAINS!

MICROPHONES

BRAND NEW FULLY GUARANTEED

VERSATILE DYNAMIC MICROPHONE



WITH ADJUSTABLE MIKE STAND

\$12.95

A beautiful mike you will be proud to own. Perfect for recording, public address, paging and general use. Completely versatile. Use on its own adjustable desk stand, for hand-held applications or on standard 3/8"-27 floor stands. Die cast all-metal body and base. Off-on switch. Output -52 db. Response 50-15,000 Hz. 6 ft. detachable cord with standard 1/4" phone plug attached. Black satin and brushed chrome. Imported to give you big savings! Shpg. wt. 2 1/2 lbs. No. 29B275. Spec. Ea. **\$12.95**



NEW! MINIATURE LAVALIER DYNAMIC MIKE

\$11.95

Very high quality — brushed chrome finished. Only 5/8" dia., 3 1/4" long and weighs less than 2 oz. Frequency response 50-15,000 Hz. Output level -55 db, high impedance. Has detachable 10 ft. cable and lavalier neck cord. Mike slips out of clip for hand use if desired. Shpg. wt. 8 oz. No. 29A504. Special Each... **\$11.95**

PROFESSIONAL DYNAMIC MICROPHONE

\$19.95

- High impedance: 50K ohms.
- Low impedance: 200 ohms.
- Response: 35-15,000 cps.
- Cardioid pattern.

Designed with a spherical front filter for professional use. Pickup pattern is highly unidirectional to reduce any chance of feedback.

Frequency response 35-15,000 cps. Output level -53 db. Has a die cast case beautifully finished in satin chrome. Equipped with 4 prong detachable connector with cable 20 ft. long, and swivel mike stand holder tapped for 3/8"-27 stands. Shpg. wt. 2 lbs. No. 29A502. Special Each... **\$19.95**



CARDIOID PATTERN ON-OFF SWITCH

FREE FROM POP & BLAST

PROFESSIONAL CARDIOID DYNAMIC MICROPHONE

\$12.95

Cardioid uni-directional pattern minimizes background noise. Feedback, pop and booming noises are suppressed and permits close talking. High sensitivity and wide, flat frequency response assures high fidelity reproduction. Ideal for vocalists, entertainers and all recording and PA applications. Non-glare satin body. On-off switch. 50,000 ohm impedance. Output -55 db. 20 ft. cable. With stand adaptor. No. 29A679. Special Each... **\$12.95**



SAVE! CERAMIC MIKES

IDEAL FOR CITIZENS BAND AND AMATEUR USE

MADE IN U.S.A.

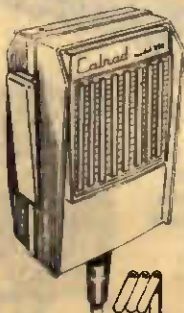


B-A BARGAIN SPECIAL \$9.50

All the wanted features. Made to B-A specs by a leading American Microphone producer. Has coiled cord, press-to-talk relay switch, ceramic long-life cartridge. Best ever for replacement on CB and ham equipment. Fine for all the new mobile rigs. Response 80-7,000 Hz. Output -54 db. 5 ft. coiled cord. Professional grey plastic case silver trim. Case only 3 5/8" x 2 1/2" x 1 1/2" T. With dash mtg. bracket. Wt. 1 lb. Microphone and Dash Mounting Bracket. No. 29A277. Special... **\$9.50**

NEW CERAMIC MOBILE MIKES

MORE TALK POWER FOR CB AND OTHER 2-WAY RADIO WITH TRANSISTOR AMPLIFIER AND VOLUME CONTROL. Up to 15 db. more gain compared to other communications mikes. Provides exceptional speech clarity and higher average percentage of modulation for the utmost communications range. Rear mounted gain control allows convenient single hand operation. Has press-to-talk three-pole double throw switch to operate all CB equipment. Silicon transistors and ceramic element provide temperature and humidity protection. In tough molded case with 5 ft. retractable cable and mounting clip. Wt. 1 lb. No. 29A628. Top Quality Import. Special Each... **\$15.95**
2 FOR... **\$29.95**



ALL PURPOSE CRYSTAL MIKE

Bargain scoop! Fine for recording, paging, experimenting, etc. Wide range response. High output. 5 ft. cord. 1 7/8" X 2 3/4" X 1". Wt. 8 ozs. Priced below makers cost. No. 18A341 Special Each... **\$1.95**



DYNAMIC DUAL IMPEDANCE MIKE

PERFECT SOUND PICKUP IN ALL DIRECTIONS

\$14.95

Beautiful and very practical. Combines good looks, excellent performance and fine quality. Built for general purpose work... PA, church, tape recording... wherever appearance and sound both count. Pickup is uniform in all directions. Response 50-15,000 Hz. output -55 db. impedance 150 or 50,000 ohms allowing use of extra long mike line if needed. Head fits from full vertical to horizontal, fits 3/8"-27 stand. Has on-off switch and detachable 20 ft. cable. Size 8 1/2" x 1 1/2" max. dia. Brushed chrome with black perforated grille. Shpg. wt. 2 lbs. No. 29B259. Special Each... **\$14.95**

BIGGEST MICROPHONE SPECIAL PURCHASE IN B-A's HISTORY!

TO BRING YOU THE BIGGEST SAVINGS EVER! RCA MICROPHONES
ALL PRICED AT 1/2 REGULAR PRICE... HURRY WHILE STOCKS LAST!

REG. PRICE \$7.00

SAVE \$3.50

SPECIAL
\$3.50

RCA DYNAMIC RECORDER MIKES

Designed especially for home recording enthusiasts who require a replacement or want to upgrade their equipment. Excellent for public address, experimenters use. Freq. resp. 80 to 8,000 Hz. 4 ft. cable. With plastic desk stand. Black and chrome finish.

With miniature phone plug plus an adaptor to convert to standard 4" phone plug.

- | | |
|--|--------|
| No. 29A693. Low Impedance (500 Ohm). Each | \$3.50 |
| No. 29A695. High Impedance (50,000 Ohm). Each | \$3.50 |
| With miniature and subminiature phone plugs plus coaxial adaptor to fit nearly all recorders with remote control mikes. Low impedance. | |
| No. 29A694. Each | \$3.50 |
| No. 29A663. No plug low impedance. Each | \$3.50 |
| No. 29A664. No plug high impedance. Each | \$3.50 |



RCA PUBLIC ADDRESS AND COMMUNICATIONS MIKE

A hand-held omnidirectional magnetic type for general voice and mobile communications applications.

Special tapered high-and-low frequency response characteristics reduces background noise and rumble. Has push-to-talk remote control switch. High impact black plastic case. Freq. resp. 200-5,000 Hz. Output impedance 20,000 ohms.

Complete with chrome hanger and 6 ft. coiled cable. Mfg. list \$17.50. Shpg. wt. 1 lb.

No. 29A665. HK-107. Net Each

\$6.00



\$6.00

RCA GENERAL PURPOSE MICROPHONES

SPECIAL \$7.00

REG. PRICE
\$14.00

Omnidirectional Dynamic Microphone. For use in applications such as public address and for upgrading home tape recorders. It offers good frequency response and performance at a low low price. Complete with plastic desk stand, lanyard, 10 ft. cable, die-cast metal case. Freq. resp. 70-12,000 Hz. Output impedance 200 ohms. Black and satin chrome finish. Shpg. wt. 1 lb. Mfg. list \$20.00.

No. 29A660. RCA HK105. Each

\$7.00



RCA COMMUNICATIONS MICROPHONES

TRANSISTOR AMPLIFIED BASE STATION MIKE

REG. PRICE \$49.00

SPECIAL ... \$24.50

Features an integral transistorized amplifier, with a handy, adjustable output level control, which provides a high-level output signal for amateur radio, C.B., base station mobile communications, and public address applications. Unidirectional dynamic has push-to-talk, lock, and remote control switches and can be adapted to various transmitters or for VOX operation. Tapered speech range. Freq. response 400-8000 Hz. Output impedance 400 ohm. Output level at 1000 Hz. -21db. Complete with integral desk stand and 6-ft. cable. Uses 9 volt battery. Metallic silver and satin chrome finish. Shpg. wt. 3 lb. Mfg. list price \$72.00.

No. 29A716. RCA HK109 Microphone. Each

\$24.50

No. 21B141. 9 volt battery. Each



WAS \$44.00 SAVE \$22.00

RCA PROFESSIONAL QUALITY DUAL IMPEDANCE MIKE

Designed for high-quality music, voice recording and public address. Especially useful where one microphone is to be used for two or more persons or sound sources as well as for close vocal work. Features an on-off microphone switch. Slim easy-to-hold. Has exceptionally wide response. Omnidirectional pickup pattern complete with removable windscreen. Freq. resp. 70-16,000 Hz. Output Impedance: Hi-Z 15,000 ohms. Lo-Z 200 ohms. Black and satin chrome finish. With attache carrying case. Shpg. wt. 3 lbs. Mfg. list \$64.00. Regular BA Low Price \$44.00. No. 29A662. HK-115. Net Each

\$22.00



\$22.00

RCA UNIDIRECTIONAL MIKE FOR RECORDING, PUBLIC ADDRESS

REG. PRICE \$64.00

SPECIAL \$32.00

A superb "personal" microphone for the discriminating artist. Its high off-axis rejection makes this anti-feedback microphone a favorite with "active" performers. Unidirectional dynamic. Freq. response 100-15,000 Hz. Output impedance: High Z 15,000 ohms, Low Z 200 ohms. Output level at 1000 Hz: High Z -64 db, Low Z -62 db. Finish is gold-plated. Complete with adjustable holder, weighted metal desk stand, 20-ft. shielded cable, special Hi Z/Lo Z connector, and attache case. Mfg. list \$93.00. Shpg. wt. 3 lb. No. 29A714. RCA HK103. Each

\$32.00



GOLD FINISH

RCA PAGING AND PUBLIC ADDRESS MICROPHONE

REG. PRICE
\$29.00

SPECIAL \$14.50

Particularly useful in service counter, voice recording, public address, and paging applications. Has push-to-talk, lock, and remote control switch. Goose-neck base fits standard microphone stand. High style, small and unobtrusive appearance. A natural for one-way and two-way voice work. Omnidirectional dynamic. Freq. response 200-8000 Hz. Output Impedance (for high Z and low Z inputs) 10,000 ohms. Output level at 1000 Hz. -70 db. Complete with 5/8" -27 tapped base, threaded adaptor, and 6-ft. cable. Mfg. list \$42.00. Shpg. wt. 3 lb. No. 29A719. RCA HK113. Each

\$14.50

RCA DUAL DYNAMIC MICROPHONE

FOR RECORDING STEREO, MEETINGS

AND CONFERENCES

Twin cardioid microphones designed particularly for stereophonic home recording, conference and panel discussions, and general meeting recording applications. Wired for two channel output, the microphones can be angled in the desk stand; positioned up to 18" apart with the twin cable accessory and plastic holders; or they can be hand held. Unidirectional dynamic. Freq. response 150-10,000 Hz. Output impedance (for High Z and Low Z inputs) 10,000 ohms. Output level at 1000 Hz. -65 db. Finish is black and satin chrome. With attache carrying case. Mfg. list \$90.00. Shpg. wt. 3 lb. No. 29A713. RCA HK102. Each

\$31.00



REG. PRICE
\$62.00

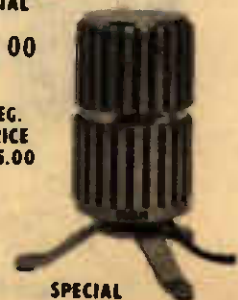
SPECIAL
\$31.00

RCA DUAL MICROPHONE

Features two cardioid microphones, having increased directional sensitivity, in a unique housing. Twist the top for channel separation. Unidirectional dynamic. Freq. response 150-10,000 Hz. Output Impedance (for High Z and Low Z inputs) 10,000 ohms. Output level at 1000 Hz. -60 db. Finish satin chrome and gray. Complete with integral desk stand, 10-ft. cable, connector, and attache case. Mfg. list \$65.00. Shpg. wt. 3 lb. No. 29A715. RCA HK104. Each

\$22.50

REG. PRICE
\$45.00



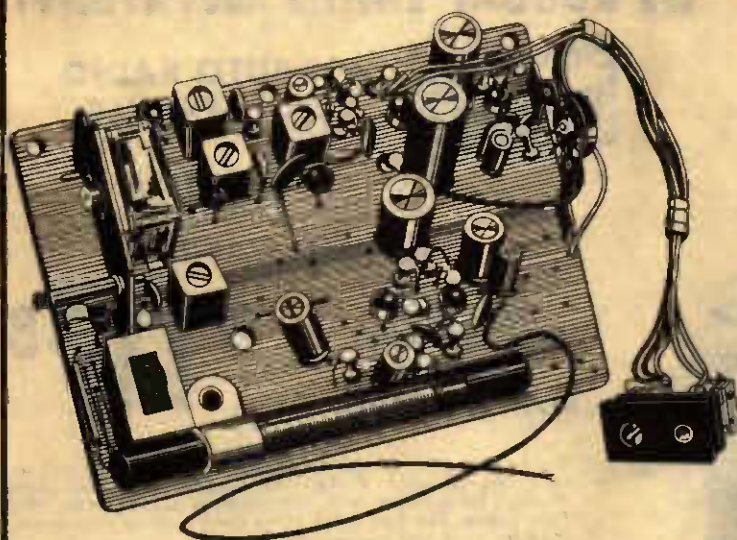
SPECIAL
\$22.50

WITH CUSHIONED
CARRYING CASE

B-A RED HOT BARGAIN BUY!!

SOLID STATE AMPLIFIER CHASSIS WITH AM RADIO

HURRY . . . LIMITED QUANTITY! **\$4.95**
B-A SPECIAL LOW PRICE EACH



Fully wired, ready for you to connect mike, speaker and batteries or AC adaptor. Parts alone worth more than our low price! Originally built for a Philco cassette recorder. Use it for a miniature PA amplifier or phono amplifier with built-in radio. Top performing AM radio. Great for building into your own cabinet or enclosure. Plenty of volume, equals performance of table radios. Built-in antenna and volume control. Has coaxial jack for AC adaptor, miniature jack for speaker or earphone, radio-mike switch. 10" shielded lead for microphone or phono input. Operates from 6 or 7½ volt batteries or AC adaptor shown below. 4-9/16x3-¼"x1½". With diagram for easy hook-up.

No. 18A1594. Each **\$4.95**
 6 Lots **\$4.50**
 No. 18A1512. Matching 3½" speaker. Each 99¢
 No. 29A664. Dynamic Microphone. See opposite page for complete description. Each **\$3.50**
 No. 21A2. "C" Cell battery. (use 5). Each **20¢**
 No. 18A1595. Plug in 6 volt AC adaptor. Operates amplifier from 115 VAC. Each **\$4.95**

B-A SPECIAL PURCHASE BARGAIN!

12 VOLT DC POWER PACK

\$2.95



Deliver 12 to 13 VDC at 1.25 amp from full wave selenium rectifier. Transformer easily removed from case gives 24 to 26 VAC. CT at .6 amp. Has automatic circuit breaker, "off-on" switch and 6 ft. power cord. Screw terminal output. Sturdy metal case 3¾" L. x 2¾" W. x 2¼" H. has removable base increasing height ¾". Use for a 12 VDC supply or disassemble for the component parts at this bargain price. Brand new. Shpg. wt. 2 lbs. No. 18A1534. Special Each **\$2.95**

MALLORY SONALERT SIGNALING DEVICE

Solid State signaling device operates on 6-28 VDC. Produces penetrating sound by purely electrical means. Long life. 1½" Dia. x ¾" H. Hurry while limited quantity lasts. No. 12A2853. Each **\$4.95**



ONEIDA PERMABOND ADHESIVE

Powerful one drop holds with up to 2 tons of tensile strength holding power. Easy to use one component—no mixing, no solvent, no shrinkage, no clamping, no mess. Just apply and it sets in seconds. Economical one drop holds a square inch of bonding surface. Up to 132 applications per tube. Oneida permabond adhesive power bonds rubber, plastic, metal, ceramic, glass, porcelain, wood—anything that isn't too porous. Non-toxic—used in dentistry. Resists chemicals, weather, moisture . . . indefinitely. Only acetone or other specific solvents can break the bond. Clear and colorless. No. 17A1425. 2 gram tube. Each **\$1.95**



ONEIDA DRIVE BELT KITS

Produces drive belts instantly. Eliminates need for a stock of belts in many different sizes. No molds or complicated vulcanizing procedures. Returns many times its cost in immediate direct replacement of belts.

Round Rubber Drive Belt Kits. Contains 1 tube of permabond adhesive (see description above), 2 8-ft. pieces of 1/16, 3/32, ½ rubber belt stock, a jig for making controlled cuts and a blade for cutting. Shpg. wt. 2 lbs. No. 12A2854. Each **\$19.95**



Square Rubber Drive Belt Kits. Contains 1 tube of permabond adhesive, 2 3-ft. pieces of 1/32 x 7/32, 1/16 x 3/16, 1/16 x ¼ flat belt stock, a jig for making controlled cuts and a blade for cutting. Shpg. wt. 2 lbs. No. 12A2855. Each **\$19.95**

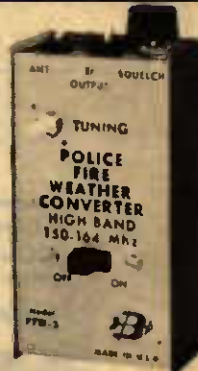
VHF CONVERTER KITS

NO TECHNICAL KNOWLEDGE OR EXPERIENCE NEEDED!

FOR POLICE, FIRE, AIRCRAFT

EXCELLENT FOR SCIENCE FAIR

\$6.95



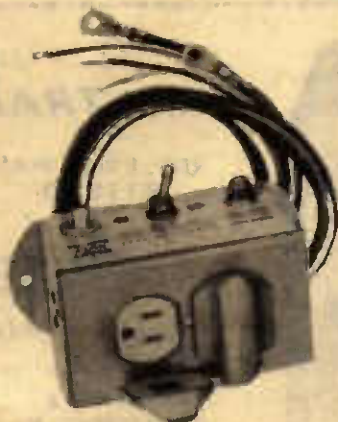
Receive Shortwave, Weather, Police and Fire with your own Radio. 20A1302 is used with FM Radio, all others used with AM Radio. Place the converter near your radio, no interconnections necessary.

Changes VHF band to lower frequencies that your radio can handle. Complete with all parts including vinyl and gold anodized case. With instructions. Less battery. No. 20A1300. Shortwave 7-12 MHz. Each **\$6.95**
 No. 20A1301. Police and Fire Lo-Band 30-50 MHz. Each **\$6.95**
 No. 20A1302. Police, Fire & Weather Hi-Band 150-164 MHz. Each **\$7.95**
 No. 20A1299. Aircraft 118-130 MHz. Each **\$6.95**
 No. 21A141. 9 Volt Battery. Each **54¢**

TOTE-A-VOLT™

ELECTRIC POWER FROM YOUR ALTERNATOR

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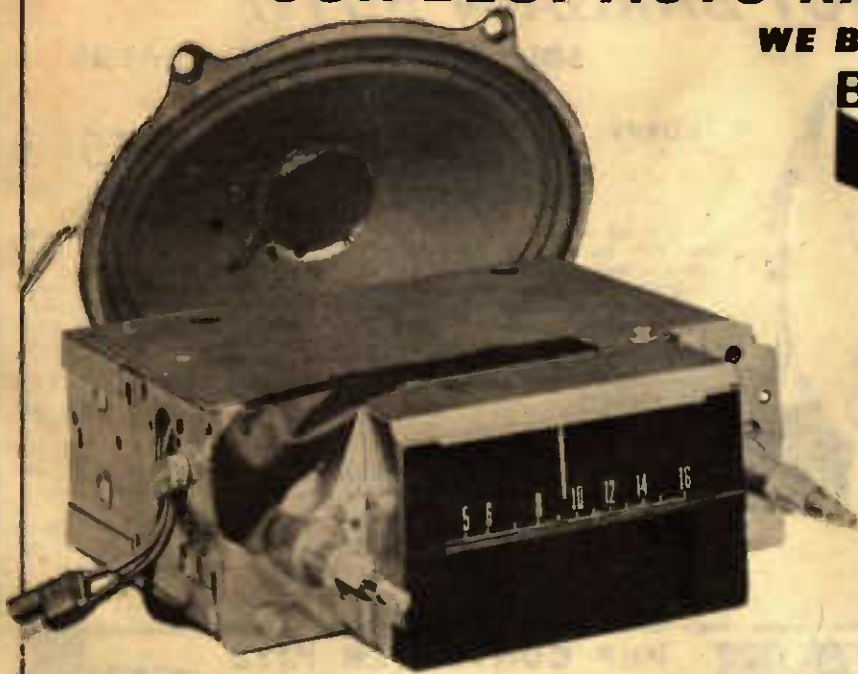
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INFORMATION ABOUT THE PRICE STABILIZATION PROGRAM AND BURSTEIN-APPLEBEE'S CATALOG BASE PERIOD PRICES

Burstein-Applebee supports the President's price stabilization program and has made every effort to be in full compliance with both its spirit and its letter. Accordingly, the items of merchandise offered for sale in this catalog are priced so that our mark-up will be the same or less than we received prior to November 14, 1971. Further, although increased costs from our suppliers have forced us to raise some prices, these price increases will not result in an increase in our overall profit margin over that which prevailed during the base period.

For your ready information concerning prices, we have prepared a list setting forth the base prices of those items which accounted for the highest sales volume in each of our catalog departments last year. For each of these departments, we have listed either the top selling 40 items or the items which accounted for at least 50% of total sales in the department, whichever is less. The following list sets forth the catalog number and base price of those items.

We shall be happy to provide you with information regarding the lawful base price for any product in our catalog. Merely fill in the "Base Price Information Request Form" provided below and mail it to:

BURSTEIN-APPLEBEE
3199 Mercier Street
Kansas City, Mo. 64111
Attention: Catalog Sales Department

You will receive a prompt answer by mail. Additional forms may be obtained from any Burstein-Applebee store or by making written request, to the address set forth above.

BASE PRICE INFORMATION REQUEST FORM

Please furnish me with your base price for the following catalog item:

ITEM _____

CATALOG PRICE _____

NAME _____

ADDRESS _____

CITY _____

STATE _____ ZIP CODE _____

Item Number	Description	Base Period Price	Item Number	Description	Base Period Price	Item Number	Description	Base Period Price	Item Number	Description	Base Period Price
AUDIO COMPONENTS & SYSTEMS											
33A474	Stereo Receiver	\$379.95	10A48	Transceiver	\$319.95	7A2600	Antenna Rotator	43.95	66A278	Camera	\$44.95
33A499	Stereo Receiver	49.88	10A64	Amplifier	139.95	7A2559	TV Amplifier	35.86	66A281	Slide Projector	99.95
33A530	Phono Turntable	44.50	10A87	Walkie Talkie	29.95	2A19	Wire, 25 ft.	86	66A3005	Film Mailer	3.03
33A539	Phono Turntable	139.50	10A89	Walkie Talkie	59.95	7A6507	Antenna	32.54	66A3007	Film Pack	2.93
33A542	Phono Turntable	59.50	9A410	Receiver	109.95	7A6552	Antenna	44.35	66A3013	Film	5.15
33A585	Phono Turntable	69.50	9A430	Transmitter	495.00	7A6554	Antenna	28.55	66A3055	Film	2.65
33A634	Phono Turntable	99.50	9A459	Scanner	169.00	7A6555	Antenna	73.46	66A3057	Film	2.65
33A655	Phono Turntable	175.00	9A476	Scanner	139.00	7A8511	Tower Section	23.00	66A6005	Projector Lamp	8.45
33A656	Phono Turntable	99.50	10A30	Walkie Talkie	89.95	12A1914	Connectors	61	66A6012	Projector Lamp	4.84
33A691	Phono Turntable	139.50	10A86	Transceiver	239.95	12A2212	Terminal Clip, Per 100	1.61	66A6023	Flash Gun	2.79
30A5006	Stereo Music System	129.95	9A3031	Rotator	129.95	12A2301	Terminal Clip, Per 100	1.75	47A7507	Memo Pad-Pen	1.98
30A5007	Stereo Music System	179.95	10A12	Transceiver	249.95	13A903	Transformer	1.89	41A4059	Garage Door Opener	169.95
30A5014	Stereo Music System	239.95	9A449	Receiver	1,150.00	13A941	Transformer	13.00	41A4020	Dimmer Control	6.95
30A5017	Stereo Music System	199.95	9A3032	Rotator	69.95	7A2538	Rotator	44.95	47A5518	Burglar Alarm	29.95
33A5	Stereo Receiver	199.95	9A454	Scanner	139.00	14A1175	Potentiometer	1.94	47A5547	Ignition System	49.95
33A36	Stereo Receiver	129.95	9A466	Monitor	149.95	20A1261	Light Control Center	12.95	41A4041	Photo Electric Alarm	19.95
33A40	Stereo Receiver	199.95	10A32	Transceiver	139.95	7A2545	Antenna Rotator	49.95	41A4051	Burglar Alarm	69.95
33A409	Stereo Music System	299.95	10A81	Transceiver	399.95	7A6550	Antenna	75.47	47A5555	Siren	19.95
33A414	Stereo Receiver	299.95	10A93	Transceiver	99.95	7A6563	Antenna	10.88	47A5561	Ignition System	28.95
33A415	Stereo Receiver	399.95	9A460	Scanner	169.00	13A8041	Power Supply	19.95	41A4021	Timer Clock	10.95
33A435	Stereo Amplifier	19.95	9A470	Amateur Transceiver	199.95	14A1175	Potentiometer 10K	1.94	41A332	Timer Switch	13.96
33A469	Stereo Receiver	189.95	10A19	Transceiver	159.95	19A177	Relay	4.20	41A4045	Alarm Bell	3.95
33A470	Stereo Tuner	99.95	10A24	Transceiver	129.95	20A1272	Treasure Hunter Kit	29.95	41A4047	Boxer Fan	14.95
33A471	Stereo Amplifier	99.95	10A41	Walkie Talkie	18.95	6GH8A Tube		1.92	41A4064	Crime Alert	99.95
33A472	Stereo Receiver	199.95	10A49	Transceiver	149.95	13A942	Transformer	19.00	47A5510	Ignition System	39.88
33A473	Stereo Receiver	259.95	10A77	Transceiver	359.95	13A8000	Power Supply	24.95	47A5511	Ignition System	29.95
33A2012	Speaker System	198.00	10A78	Transceiver	329.95	18A1409	Tube Kit	2.98	18A1420	Meter Set	12.95
33A2106	Speaker System	89.95	10A79	Transceiver	99.95	18A1510	Receiver Chassis	4.95	61A267	Refrigerator	69.95
33A2108	Speaker System	69.95	10A3020	Crystals, Pair	4.95	19A1393	Relay	7.25	61A287	Fan	49.95
33A2109	Speaker System	89.95	10A35	Walkie Talkie, Pair	9.95	19A1754	Relay	14.00	66A241	Slide Projector	49.95
33A2110	Speaker System	79.95	10A38	Transceiver	69.95	21A230	Battery	1.49	66A268	Movie Projector	149.95
34A464	Speaker	42.95	10A41	Transceiver	289.95	21A231	Battery	1.28	66A3000	Film Mailers	1.93
30A432	Portable System	99.95	10A55	Walkie Talkie	24.95	21A5001	Battery	68	66A3012	Film	2.69
34A454	Speaker	7.83	9A429	Receiver	475.00	21A5033	Battery	1.66	66A3051	Film	2.88
34A482	Speaker	18.95	9A433	Transceiver	599.95	6BK4/6EL4A Tube	4.71	61A230	Blender	34.95	
34A463	Speaker	27.95	9A434	Scanner	139.95	7A2544	Converter	19.95	61A231	Blender	49.95
34A465	Speaker	5.99	9A447	Transmitter	865.00	7A2599	Antenna Rotator	31.95	61A257	Vacuum Cleaner	89.95
30A5016	Speaker System	59.95	9A487	Scanner	219.00	7A4514	Antenna	16.95	61A282	Massager	19.95
36A9000	Phono Turntable	39.95	10A28	Walkie Talkie, Pair	14.95				81A286	Fan	29.95
33A629	Turntable	24.95	10A43	Walkie Talkie	44.95				66A273	Camera	139.95

LIST CONTINUES ON THE FOLLOWING PAGE

BURSTEIN-APPLEBEE'S CATALOG BASE PERIOD PRICES (Continued)

Item Number	Description	Base Period Price
RADIO, TV, PHONO		
39A475	Color TV	\$379.95
30A425	Portable Phono	69.95
36A3523	Portable Radio	39.95
36A3528	Portable Radio	29.95
36A5024	Portable Radio	79.95
36A5036	Portable Radio	49.95
36A8027	Clock Radio	29.95
36A8044	Clock Radio	39.95
36A8045	Clock Radio	39.95
36A9006	Stereo Radio	99.95
36A9012	Stereo Radio	99.95
39A469	Portable TV	129.88
39A482	Portable TV	74.88
36A504	Portable Radio	9.88
36A505	Portable Radio	9.88
36A5015	Portable Radio	99.95
36A6524	Stereo Radio	119.95
36A8016	Clock Radio	59.95
36A8029	Clock Radio	49.95
36A9009	Stereo Radio	159.95
36A9014	Stereo Radio	179.95
36A9020	Stereo Radio	89.95
39A440	Portable TV	149.95
39A446	Radio TV	159.95
39A461	Color TV	269.95
39A463	Color TV	359.95
39A485	Portable TV	89.88
39A486	Portable TV	89.88
39A487	Portable TV	99.95
36A9005	Stereo Radio	69.95
30A56	Portable Phono	29.95
30A59	Portable Phono	16.88
30A433	Portable Phono	89.90
30A437	Portable Phono	59.95
36A5009	Portable Phono	279.95
36A6512	Radio	34.95
36A5033	Portable Radio	34.95
36A8019	Clock Radio	19.95
39A489	Color TV	299.95
39A484	Portable TV	74.88

Item Number	Description	Base Period Price
AUTO RADIOS AND PLAYERS		
38A2045	Cassette Player	\$99.95
38A2051	Cassette Deck	129.50
38A2070	Tape Player	49.88
34A402	Speaker	9.95pr
34A431	Speaker	4.95pr
34A473	Speaker	10.95
34A474	Speaker	19.95pr
38A231	Radio	49.95
38A2015	Tape Player	56.95
38A2042	Tape Player	79.95
38A2066	Tape Player	79.95
38A2067	FM & Tape Player	109.95
38A2069	Cassette Player	79.95
38A2071	Tape Player	59.95
38A6002	Speaker	6.95pr
38A6007	Speaker	14.95pr
38A6009	Speaker	12.95pr
38A6019	Speaker	19.95pr
38A208	Auto Radio	19.95
38A230	FM Converter	29.95
38A233	Stereo Converter	49.95
38A2028	Tape Player	114.95
38A2038	Lock Mount	14.95
38A2040	Tape Player	38.88
38A2041	FM & Tape Player	89.95

Item Number	Description	Base Period Price
SOUND EQUIPMENT, P.A.		
49A226	PA Amplifier	\$114.00
49A235	PA Amplifier	97.50
49A236	PA Amplifier	118.50
49A4014	Trumpet Driver	22.05
49A4033	Sound Column	47.50
32A409	Wireless Intercom	24.95pr
32A418	Intercom	11.95
32A4001	Phone Amplifier	16.95
18A1417	Telephone	11.88
32A455	Intercom	31.95/pr
32A453	Intercom	134.95
32A410	Intercom	147.20

Item Number	Description	Base Period Price
SOUND EQUIPMENT, P.A. (Continued)		
32A4002	Telephone Cord	2.99
32A423	Intercom	51.50
32A430	Intercom Remote	17.50
32A427	Intercom	61.50
32A405	Intercom Pair	15.95
49A4006	Trumpet Speaker	15.95
49A4015	Trumpet Speaker	25.17
49A209	Amplifier	29.95
29A685	Mike	19.95
29A319	Mike	63.00
29A277	Mike	7.95
29A7003	Mike Stand	8.91
49A212	PA Amplifier	89.95
29A200	Microphone	57.00
29A259	Microphone	14.95
49A227	PA Amplifier	148.50
49A237	PA Amplifier	148.50
29A502	Microphone	19.95
29A649	Microphone	9.95
29A650	Microphone	9.95
29A7009	Stand	6.92
34A204	Speaker	29.88
34A211	Speaker	10.95
34A409	Speaker	14.95
34A478	Speaker-Baffle	16.95
49A201	PA Amplifier	74.95
49A213	PA Amplifier	49.95
49A224	PA Amplifier	97.50

Item Number	Description	Base Period Price
TAPE AND PHONO ACCESSORIES		
11A955	Recording Tape	\$.99
11A1134	Recording Cassette	1.89
11A1140	Recording Tape	4.59
11A1164	Recording Cartridge	2.49
11A1191	Recording Cartridge	3.19
11A3502	Recording Cassette	1.29
11A7540	Telephone Monitor	29.95
18A1509	Loop Mechanism	3.95
11A559	Recording Tape	2.94
11A597	Recording Tape	5.56
11A1135	Recording Cassette	2.59
11A1136	Recording Cassette	2.99
11A1146	Recording Cassette	3.69
11A1148	Recording Cassette	3 for 1.79
11A1173	Recording Cartridge	2.80
11A1177	Recording Tape	5.79
11A1193	Recording Cassette	3.75
11A1197	Recording Cassette	2.95
23A183	Album	2.95
11A545	Recording Tape	4.52
11A546	Recording Tape	3.85
11A1138	Recording Tape	3.19
11A1143	Recording Tape	6.65
11A1145	Recording Tape	2.29
11A1163	Recording Cartridge	1.99
11A1179	Recording Tape	7.79
24A362	Phono Needle	2.49
11A5501	Cassette	1.29

Item Number	Description	Base Period Price
11A887	Tape	8.79
11A1181	Tape	11.15
11A7504	Eraser	9.95
11A5509	Cassette	2.49
11A756	Tape	2.84
11A1207	Tape	3.07
11A1208	Tape	4.39
11A1131	Tape	4.20
11A594	Tape	7.35
11A1162	Tape	2.17
11A1154	Cartridge	1.92
11A1212	Cassette	4.39

Item Number	Description	Base Period Price
TAPE RECORDERS		
31A2592	Cassette Recorder	\$59.95
31A2618	Cassette Recorder	79.95
31A2620	Cassette Recorder	59.95
31A2621	Cassette Recorder	99.95
31A7552	Cartridge Recorder	99.95
31A7550	Cassette Deck	139.50
31A7544	Cartridge Recorder	69.95
31A2586	Power Cord	14.95
31A2605	Cassette Recorder	29.95

Item Number	Description	Base Period Price
TAPE RECORDERS (Continued)		
31A2619	Cassette Recorder	79.95
31A5073	Tape Deck	499.50
31A2558	Cassette Recorder	99.95
31A7557	Noise Reducer	49.50
31A2617	Cartridge Recorder	64.95
31A7558	Noise Reducer	129.50
31A5049	Tape Deck	299.95
31A232	Tape Recorder	184.95
31A2545	Cassette Recorder	39.95
31A2546	Cassette Recorder	39.88
31A2577	Cassette Recorder	149.95
31A2585	Cassette Recorder	79.95
31A2600	Cassette Recorder	69.95
31A2601	Cassette Recorder	79.95
31A2603	Cassette Recorder	49.95
31A2604	Cassette	28.88
31A2609	Cassette	44.95
31A5036	Tape Recorder	159.95
31A5045	Tape Deck	199.95
31A5058	Tape Deck	299.50
31A5077	Cartridge Deck	149.95
31A7517	Cartridge Deck	49.95
31A7521	Cassette Deck	89.95
31A7524	Cassette Recorder	179.95
31A7528	Cartridge Recorder	299.95
31A7537	Cassette Recorder	299.95
31A7538	Cartridge Deck	99.95
31A7551	Cassette Recorder	168.88
31A7554	Cassette Deck	129.95
31A7567	Cartridge Deck	49.95
31A413	Tape Recorder	349.95

Item Number	Description	Base Period Price
TEST EQUIPMENT		
35A418	Tube Tester	\$38.75
35A588	Power Supply	109.95
35A273	Power Supply	79.95
35A3006	VO Meter	95.00
35A3018	Scope	269.50
35A3032	Analyzer	99.50
35A3100	Multimeter	190.00
35A3119	Scope	389.95
35A352	Multimeter	46.00
35A380	Tube Tester	149.95
35A521	Analyzer Kit	14.95
35A3027	Tube Tester	129.95
35A587	Audio Generator	64.95
35A170	Multimeter	67.00
35A331	Signal Gen. Kit	39.95
35A24	Multimeter	97.00
35A51	Multimeter	71.00
35A60	Multimeter	\$65.00
35A302	TV Analyst	399.95
35A335	Scope Kit	109.95
35A56B	Multimeter	19.95
35A569	Multimeter	15.95
35A581	Amprobe	59.85
35A3026	Multimeter	29.95

Item Number	Description	Base Period Price
TEST EQUIPMENT (Continued)		
35A3043	TV Generator	64.50
35A229	Tube Tester	99.95
47A5505	Engine Analyzer	79.95
47A5506	Engine Analyzer Kit	54.95
35A282	VTV Meter	49.95
35A336	Scope	159.95
35A381	Tube Tester Kit	99.95
35A618	Multimeter	12.95
35A3035	Signal Generator	450.00
35A3059	Multimeter	34.95
35A3094	Scope	339.50
35A3106	Multimeter	6.95
35A8013	Probe	19.95
35A61	Multimeter	67.00
35A272	Power Supply Kit	59.95
35A281	VTVM Kit	34.95

Item Number	Description	Base Period Price
TOOLS		
37A5521	Glue Gun	4.99
37A5574	Mini Scissors	3.99
37A5582	Glue Gun	9.95
37A9006	Moto Tool	33.95
37A9015	Vibrograver	9.49
37A9022	Welder	20.95
37A9089	Heat Gun	49.90
37A9101	Metal Lathe	149.50
37A9104	Drill	36.95
37A9107	Grinder	29.95
37A9584	Drill	19.95
37A9586	Jig Saw	19.95
41A8039	Inspection Lamp	29.99
37A25	Welding Torch	17.95
37A257	Solder Gun Kit	10.95
37A269	Solder Pencil	4.95
37A357	Moto Tool Kit	33.95
37A28	Speed Control	12.95
37A159	Moto Tool Kit	29.95
37A256	Solder Iron Kit	14.95
37A756	Service Tool Kit	27.90
37A3001	DeGaussing Coil	6.25
37A3004	Nibbler	4.50
37A3006	Solder Sipper	1.49
37A3121	DeSolder Tool	13.95
37A5518	Rivet Tool	3.95
41A8034	Clamp-on Lamp	14.99
41A8038	Clamp-on Lamp	22.95
41A4000	Multi Outlet Box	6.88
41A4017	Multi Outlet Box	6.88
41A4001	Multi Outlet Box	8.90
37A701	Wrench Set	6.15
37A9021	Welder	59.95
37A5549	Vise	6.95
37A562	Drill	16.95
37A5	Screwdriver	24.95
37A3028	Crimp Tool	5.95
37A3029	Crimp Tool	5.95
37A9585	Sander	19.95
37A8014	Parts Cabinet	6.99

We will be happy to provide you with information regarding the lawful base price for any product in our catalog. Merely fill in the "Base Price Information Request Form" provided below and mail it to:

BURSTEIN-APPLEBEE
3199 Mercier Street
Kansas City, Missouri 64111

Attention: Catalog Sales Department

BASE PRICE INFORMATION REQUEST FORM

Please furnish me with your base price for the following catalog item:

ITEM _____

CATALOG PRICE _____

NAME _____

ADDRESS _____

CITY _____

STATE _____ ZIP CODE _____

YOU WILL RECEIVE A PROMPT REPLY BY MAIL

YOU SHOP EASIER...FASTER...BETTER WITH A B-A E-Z PAY CHARGE ACCOUNT



**TAKE ADVANTAGE OF OUR MANY WONDERFUL BUYS!
IT COSTS SO LITTLE FOR CONTINUOUS BUYING POWER**

DISCLOSURE OF CREDIT COST

For Burstein-Applebee Revolving Charge Account

1. If full cash price is paid within 30 days of shipment of merchandise or within 30 days of first billing date, whichever is later, NO FINANCE CHARGE will be imposed.
2. The FINANCE CHARGE will be imposed initially on the outstanding balance of the account 30 days after shipment of the merchandise or 30 days after the first billing date, whichever is later. Any subsequent FINANCE CHARGE will be imposed on the outstanding balance of the account as of the last previous billing date without deducting current payments and/or credits.
3. The FINANCE CHARGE will be determined by multiplying the balance due at the last billing date by 1½% on all sums to \$500.00 and ¾% on all sums in excess of \$500.00. A minimum FINANCE CHARGE of 50c per cycle will be charged.
4. A periodic rate of 1½% will be charged on all balances to \$500.00, yielding an ANNUAL PERCENTAGE RATE of 18%.
5. A periodic rate of ¾% will be charged on all balances over \$500.00, yielding an ANNUAL PERCENTAGE RATE of 9%.
6. Late charges or delinquency charges of 5% or \$2.50, whichever is less, unless prohibited by state law, and collection charges of 15% attorneys fees unless prohibited by state law, will be added to the balance, in the event that you fail to make your monthly installments.
7. Burstein-Applebee Co. retains title and a security interest in all merchandise purchased on the Revolving Charge Plan until the entire balance, including FINANCE CHARGES, is paid in full. Any items fully paid for will not be subject to a security interest.
8. The minimum monthly payment is 5% of the highest original balance of the account, and in the event that the highest original balance is \$100.00 or less, then the minimum monthly payment is \$5.00 or the balance of the account, whichever is less. The amount of any greater minimum required payment may be determined from the Revolving Charge Account Payment Table in this catalog.
9. The cash price of each item is as listed in the catalog. No discount is given to any consumer from catalog price. Twelve payments per year, payable monthly, are required.

IT'S SO EASY TO OPEN YOUR NEW ACCOUNT . . .

Just fill in the application on the back of the B-A Order Blank. Be sure to sign the Agreement. Then make out your first order, there's no need to figure shipping costs. B-A prepays the shipment, adds the charges to your account. Your reserve buying power sum is set up in your name allowing you to spend up to a definite amount. All or any part may be used as you like.

TAKE MONTHS TO PAY . . .

painlessly, because your monthly payments are so low. See B-A's payment table on the application. You pay only a small finance charge of 1½% on each monthly balance (¾% for portion of balance which is over \$500.) The minimum monthly charge is 50c.

. . . or Just Say "CHARGE IT" . . . No Finance Charge

If you pay, within 30 days, the full amount of your purchase under your B-A Revolving Charge Account, there is No Finance Charge. It's as easy as filling in the Application on the back of the B-A Order Blank.

TO "ADD ON" AN ORDER AT ANY TIME

Here's continuous buying power to bring you year around electronic enjoyment. Use the handy B-A Order Blank, fill in your Revolving Charge Account Number and sign the Agreement on the back of the order.

Best of all . . . you pay the same low monthly payment on "Add-Ons" if your new purchase does not exceed the difference between your balance and the original purchase. To illustrate: an \$80 balance on a \$240 purchase permits you to buy up to \$160 more for the same monthly payment of \$12.00. Or, if you order more than \$160, your payments will be simply adjusted according to the Payment Table

3-CONVENIENT WAYS TO SHOP B-A CATALOGS!

★ BY MAIL . . .

Our ALL NEW high speed Kansas City plant is geared to process your order in just a few working hours. In most instances, it will be on its way back to you within 24 hours after receipt.

Your Order May Be Charged in one of four ways, Master Charge, BankAmericard, B-A Revolving Charge or American Express. Simply indicate which charge you prefer on the order blank, fill in your account number, and sign in the space provided.

★ BY PHONE . . .

From your home, local or long distance, you can phone your order. Call Area Code 816-531-5614. Tell our salesman you want to pick up your order from our plant or have it shipped.

★ IN PERSON . . .

Visit the exciting, well stocked, fully staffed B-A store nearest you. There you will find the ultimate in displayed merchandise, low prices and wonderful, helpful personal service.

B-A . . . NOW SERVING THE MIDWEST WITH THESE CONVENIENT STORE LOCATIONS:

KANSAS CITY, MISSOURI
 ● 1012 McGee (816) 221-6444
 ● 3199 Mercier (816) 931-5863
 ● 301 East 55th (816) 363-8700
 ● Antioch-Vivion & Chouteau (816) 454-3200
 ● Blue Ridge Shopping Center (816) 358-8550

SPRINGFIELD, MISSOURI
 ● 1904 S. Glenstone (417) 883-2324

LEE'S SUMMIT, MISSOURI
 ● Summit Shopping Center (816) 524-6100
KANSAS CITY, KANSAS
 ● Indian Springs Shopping Center (913) 287-9400

OVERLAND PARK, KANSAS
 ● 6808 W. 75th (913) 262-9535
 ● Metcalf South Shopping Center (913) 381-0700

DENVER, COLORADO
 ● 800 Lincoln St. (303) 321-2521
 ● Lakeside Shpg. Ctr. (303) 433-6826
 ● 8330 East Colfax (303) 238-1639
 ● 8769 W. Colfax (303) 238-1639
BOULDER, COLORADO
 ● Base-Mar Shpg. Ctr. (303) 499-7250
COLORADO SPRINGS, COLORADO
 ● The Citadel Shpg. Ctr. (303) 596-7200

AURORA, COLORADO
 ● Buckingham Square Shopping Center (303) 755-3257
ENGLEWOOD, COLORADO
 ● Cinderella City Shopping Center (303) 789-4401
TULSA, OKLAHOMA
 ● 6353 E. 41st (918) 622-2520,
TOLEDO, OHIO
 ● Southwyck Shpg. Ctr. (419) 845-0276

SATISFACTION GUARANTEED!

WE GUARANTEE EVERY ITEM IN OUR CATALOGS TO BE HONESTLY DESCRIBED AND ILLUSTRATED . . . TO BE THE QUALITY REPRESENTED . . . TO PERFORM IN THE MANNER DESCRIBED: AND TO GIVE THE SERVICE WARRANTED BY THE MAKER . . . OR RETURN AT ONCE FOR EXCHANGE, REPAIR OR YOUR MONEY BACK!

Merchandise returned must not have been abused or altered. Wherever period of time is not otherwise specified in the listing, material and workmanship Guaranteed free of defects for 90 days.



**SHOP AT HOME!
FOR CONVENIENT MAIL
ORDER SERVICE CALL . . .**

(816) 531-5614

**BURSTEIN-APPLEBEE
3199 MERCIER
KANSAS CITY, MO. 64111**

YOU'LL LIKE B-A's PERSONAL MAIL ORDER SERVICE!

OUR MODERN KANSAS CITY DISTRIBUTION CENTER CAN SPEED YOUR SHIPMENT ANYWHERE!



Use The Handy B-A Order Blank . . . Whenever possible, it is designed for your convenience and it helps us speed your order through our plant. Most orders are ready for shipment and are on their way to you within 24 hours after received.

Tell Us How You Want Shipment Made. Indicate your choice, Regular Parcel Post, Express, Freight . . . or by Air . . . or simply depend on B-A to choose an economical shipping method.

When You Send Money . . . Best way is to use money order, bank draft or check. Many B-A Customers ask us to fill in the exact amount on their signed blank check . . . a most convenient and safe way to send remittance. Please do not use universal checks or "scratched" checks where the bank name has been deleted and/or written in. (Federal Reserve Bank Ruling). Avoid sending coins or currency, but when necessary, register your letter. Stamps are not acceptable payment for merchandise.

Include Postage and Guaranteed Safe Delivery Fee. Our Catalog gives shipping weights for almost all items. Where not shown, you can estimate weights. Total these weights to the next full pound, then check the parcel post rate table for your zone and rate. The Guaranteed Safe Delivery Fee is your protection against financial loss after your shipment leaves our plant. B-A refunds all excess remittance immediately by bank check.

Do Not Include Express or Freight Charges in your remittance. These charges will be collected upon delivery.

C.O.D. Orders . . . for economy's sake we suggest you send money order or check or use B-A's Revolving Charge Account. This will avoid your payment of post office C.O.D. and money order fees. If C.O.D. is unavoidable, your order should be for a minimum of \$5.00 with at least 20% deposit accompanying your order.

Open Accounts or Commercial Accounts are extended to well rated companies, schools, institutions and government agencies. If your company does not have a published Dun & Bradstreet rating of E2½ or better, please submit trade and bank references when you apply for a commercial account. Terms are net 30 days from date of invoice. Use your purchase order form or the handy B-A order blank.

When you order on B-A's Revolving Charge Account . . . Fill in the information on the back of B-A's Order Blank, as well as listing items wanted in the usual way on the front side of the blank. You need not figure shipping charges . . . these will be added to your account. For Add-On Orders show your account number and sign in space indicated on back of order blank.

See Preceding Page when using your American Express, Bank Americard or Master Charge

B-A's CATALOG PRICES

Our Catalog Prices . . . are net FOB Kansas City. All trade and cash discounts have been deducted. B-A reserves the right to add any Federal, State or local taxes now in effect or which may be levied after this catalog is printed. MIS-MD., KANS., CDLO., DKLA. & NEBR. CUSTOMERS ADD STATE SALES TAX

Each item on your order will be priced at the current price on date of shipment. All prices are subject to change without notice. At B-A you always have immediate benefit of price reductions.

Manufacturers List Prices Shown . . . are suggested by our suppliers and are intended only as information for those purchasing for resale, not to indicate price savings.

WHEN YOU WRITE

If Necessary to Write B-A Concerning Your Order . . . Please state whether the original order was Cash, C.O.D., Revolving Charge, or Open Account. Return order papers and correspondence with your letter. If you do not yet have order papers, give stock numbers and descriptions of items ordered and the name and address exactly as used on the original order. On open accounts refer to your purchase order number and our invoice number.

HOW TO RETURN MERCHANDISE

All Shipping Damage should be reported directly to our Customer Service Dept. Express or truck shipments must have an inspection report included with your letter. We will advise you on how to return the damaged shipment. If for any other reason you find you are not satisfied with the merchandise you have received, and if you have not abused or changed it in any way, pack well, enclosing your order papers and complete explanation. Place an additional 6 cent stamp on the package and mark "First Class Mail Enclosed". Fully insure for safe arrival. Send to—

Burstein-Applebee Co., Dept. ADJ.
3199 Mercier
Kansas City, Missouri 64111

ALWAYS RETURN THE ORIGINAL ORDER PAPERS
WHEN WRITING ABOUT A SHIPMENT

MINIMUM ORDER SIZE

Since it is not economical to process many small orders, a 50c service charge is necessary for any order under \$5.00. You avoid this charge entirely on orders over \$5.00.

The minimum C.O.D. Order is \$5.00, with 20% deposit.

PARCEL POST ZIP/ZONE GUIDE

Find the first three digits of your Zip Code and your Parcel Post Zone from Kansas City in the table below. Then refer to the Parcel Post Rates below for Postage on your order.

Zip Code Prefixes	Zone	Zip Code Prefixes	Zone	Zip Code Prefixes	Zone	Zip Code Prefixes	Zone	Zip Code Prefixes	Zone
006-009	8	308-326	5	498-499	4	620-623	3	725-731	3
010-046	6	327-339	6			624	4	734-736	4
047	7	350-359	6	500-507	3	625-634	3	737-738	3
048-098	6	360-368	5	508	2	635	2	739	4
		369-374	4	510-514	3	636-639	3	740-746	3
100-129	6	376-379	5	515-516	2	640-641	1	747	4
130-132	5	380-394	4	520-528	3	644-645	1	748-749	3
133-136	6	395	5	530-537	4	646	2	750-768	4
137-179	5	396-397	4	538	3	647	3	769-777	5
180-181	4			539-560	4	648-653	2	778	4
182	5	400-410	4	561	3	648-655	3	779-789	5
183	6	411-412	5	562-566	4	656-658	2	790-796	4
184-188	5	413-414	4	567	5	660-662	1	797-799	5
189-194	6	415-418	5	570-582	4	664-674	2		
195-199	5	420-432	4	583	5	675-676	3	800-812	4
		433	5	584-585	4	677	4	813-816	5
200-217	5	434-436	4	586-595	5	678	3	820-822	4
218	6	437-449	5	596-599	6	679	4	823-826	4
219-278	5	450-455	4			680-685	2	827	5
279	6	456-457	5	600-611	5	686-689	3	828-832	7
280-299	5	458-479	4	612	3	690-693	4	833	6
		480-487	5	613	4			834	5
300-306	5	488-496	4	614-616	3	700-708	5	835-838	6
307	6	497	5	617-619	6	710-724	4	840-847	5

PARCEL POST RATES AND SIZE LIMITS

The table below and the chart above will help you estimate parcel post charges. Packages under 16 ounces are 8c for first 2 ounces and 2c for each additional ounce, any zone.

WEIGHT AND SIZE LIMITS: Size limits below are maximum combined length and girth. 40 Lbs., 84 inches to any 1st Class P.O. in Zones 3 to 8; 40 Lbs., 84 inches to any 1st Class P.O. in Zones 1 and 2; 70 Lbs., 100 inches to any 2nd, 3rd, 4th Class P.O., RFD, APO or FPO.

Alaska and Hawaii is 70 Lbs., 100 inches for any First Class Post Office.

AIR Parcel Post Rates vary per pound as distance increases; please check with your Postmaster for rate to your City.

GUARANTEED SAFE DELIVERY RATES: 20c for values to \$15.00, 30c for values \$15.01 to \$50.00, 40c for values \$50.01 to \$100.00, 50c for values \$100.01 to \$150.00, 60c for values \$150.01 to \$200.00.

Wt. In Lbs.	Local Delivery	Zones 1 & 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
		Up to 150 Miles	150-300 Miles	300-600 Miles	600-1000 Miles	1000-1400 Miles	1400-1800 Miles	Over 1800 Miles
2	\$0.60	\$0.65	\$0.70	\$0.75	\$0.80	\$0.90	\$1.00	\$1.05
3	.60	.75	.80	.85	.95	1.10	1.20	1.35
4	.65	.80	.85	.95	1.10	1.30	1.40	1.60
5	.70	.85	.90	1.05	1.20	1.45	1.65	1.90
6	.70	.95	1.00	1.15	1.35	1.60	1.85	2.10
7	.75	1.05	1.10	1.25	1.50	1.75	2.10	2.35
8	.75	1.10	1.15	1.35	1.60	1.90	2.30	2.60
9	.80	1.15	1.20	1.45	1.75	2.05	2.45	2.85
10	.80	1.20	1.30	1.55	1.90	2.20	2.65	3.10
11	.80	1.25	1.35	1.60	2.00	2.30	2.85	3.35
12	.85	1.30	1.45	1.70	2.10	2.45	3.05	3.55
13	.85	1.35	1.55	1.80	2.20	2.60	3.25	3.80
14	.90	1.40	1.60	1.90	2.35	2.75	3.45	4.00
15	.90	1.45	1.65	2.00	2.45	2.85	3.60	4.20
16	.95	1.55	1.75	2.05	2.55	2.95	3.80	4.40
17	1.00	1.60	1.80	2.15	2.65	3.10	3.95	4.60
18	1.00	1.65	1.90	2.20	2.75	3.20	4.15	4.80
19	1.05	1.70	2.00	2.30	2.85	3.35	4.30	5.00
20	1.05	1.75	2.05	2.40	2.95	3.50	4.50	5.20
21	1.10	1.85	2.10	2.45	3.05	3.65	4.65	5.40
22	1.15	1.90	2.15	2.55	3.15	3.75	4.85	5.60
23	1.15	1.95	2.20	2.60	3.25	3.90	5.00	5.80
24	1.20	2.00	2.25	2.65	3.35	4.05	5.15	6.00
25	1.20	2.05	2.30	2.75	3.45	4.15	5.35	6.20
26	1.20	2.10	2.35	2.85	3.55	4.30	5.50	6.40
27	1.25	2.15	2.40	2.90	3.70	4.45	5.65	6.60
28	1.25	2.20	2.45	2.95	3.80	4.60	5.80	6.80
29	1.30	2.25	2.50	3.05	3.90	4.70	5.95	7.00
30	1.30	2.30	2.55	3.10	4.00	4.85	6.10	7.20

PARCEL POST COO FEES (In addition to charges above) 70c from .01 to \$10.00, 80c from \$10.01 to \$25.00, 90c from \$25.01 to \$50.00, \$1.00 from \$50.01 to \$100.00, \$1.10 from \$100.01 to \$200.00.

IF THERE IS QUESTION ON ANY POSTAL RATES PLEASE CONTACT YOUR LOCAL POSTMASTER!

REA SHIPMENTS ARE BEST FOR FRAGILE GOODS

Shipment via REA is often necessary when items you ordered (such as antennas) exceed Post Office limits for package size, explained above.

EXPRESS CHARGES AND INSURANCE ARE COLLECTED ON DELIVERY

DO NOT ADD THESE CHARGES TO YOUR REMITTANCE

If you wish home delivery be sure the Express Company offers this service; otherwise you will be expected to pick up your order at the closest station. Check your express agent for schedule of rates.

IT'S EASY TO OPEN A B-A REVOLVING CHARGE ACCOUNT

AGREEMENT FOR B-A'S REVOLVING CHARGE ACCOUNT

The undersigned, hereinafter called customer, hereby agrees with Burstein-Appiebee Co., hereinafter called creditor; that customer may from time to time make purchases of goods and services, as approved by creditor, that all said purchases will be charged to customer's revolving charge account, thereby increasing the amount owed; that customer will pay the full amount of any said purchases within 30 days of the first billing date thereafter without charge, or customer will pay in monthly installments to creditor, computed as to amount according to the revolving charge account payment table shown hereon (minimum payment \$5.00 in the event the balance of the account is less than \$100.00) until the full amount of all purchases and FINANCE CHARGE thereon, including the minimum FINANCE CHARGE of 50 cents per month, are paid in full. Customer agrees to pay a FINANCE CHARGE of 1½ per cent per month on all sums to \$500.00 and ¾ per cent per month on all sums in excess of \$500.00 each month (minimum FINANCE CHARGE of 50 cents per month). Customer further agrees to pay any late charges permitted by state law and all collection costs including reasonable attorney's fees if permitted by law. Customer grants creditor a security interest in all goods purchased until the purchase price and FINANCE CHARGE have been paid in full, and grants creditor the right to accelerate the balance in the event of default in the payment of any installment, and further grants creditor the right to repossess the merchandise in the event of any default. Customer acknowledges receipt of credit cost disclosure this _____ day of _____ 19____ and approves the ANNUAL PERCENTAGE RATES set out and the method of treating FINANCE CHARGE on existing outstanding balances as set out.

PLEASE SIGN HERE **X**

IT'S EASY TO OPEN A NEW ACCOUNT...

Just answer questions shown below and sign the Agreement and the Application on the line marked "X". You do not need to figure shipping charges; they are prepaid and will be added to your account.

TO "ADD-ON" AN ORDER TO YOUR B-A CHARGE ACCOUNT

Put your account number in the space provided below and sign the contract on the line marked "X". No need to fill in personal information unless your account has been inactive over a year. Your "add-on" order should total \$5.00 or more.

ACCOUNT NUMBER

SEE DISCLOSURE OF CREDIT COST INFORMATION ON PAGE 273

REVOLVING CHARGE ACCOUNT PAYMENT TABLE

USE IT TO EASILY DETERMINE YOUR SMALL MONTHLY PAYMENT

MONTHLY PAYMENT	UNPAID BALANCE TOTAL AMOUNT LESS ANY PAYMENT
ONLY	BUYS UP TO
\$ 5	\$ 20-100
\$ 6	\$101-120
\$ 7	\$121-140
\$ 8	\$141-160
\$ 9	\$161-180
\$10	\$181-200
\$11	\$201-220
\$12	\$221-240
\$13	\$241-260
\$14	\$261-280
\$15	\$281-300
\$16	\$301-320
\$17	\$321-340
\$18	\$341-360
\$19	\$361-380
\$20	\$381-400
\$21	\$401-420
\$22	\$421-440
\$23	\$441-460
\$24	\$461-480
\$25	\$481-500

ON ACCOUNTS OVER \$500 Monthly Payments are figured at \$1.00 additional for each \$20. (For instance: \$580 @ \$29.00 monthly).

APPLICATION FOR THOSE WHO DO NOT HAVE A B-A REVOLVING CHARGE ACCOUNT

IF UNDER 21, PLEASE HAVE PARENT OR GUARDIAN SIGN AND FILL OUT APPLICATION

PRINT FULL NAME _____ SOCIAL SECURITY NUMBER _____ YOUR AGE _____ TODAY'S DATE _____

HOME ADDRESS _____ CITY _____ STATE _____ ZIP CODE _____

HOME PHONE _____ BUSINESS PHONE _____ HOW LONG AT PRESENT ADDRESS _____ OWN HOME RENT OR MORTGAGE PMT. \$ _____ PER MONTH

WIFE'S NAME _____ MARITAL STATUS MARRIED SINGLE DIVORCED SEPARATED NUMBER OF DEPENDENT _____

PREVIOUS ADDRESS _____ CITY _____ STATE _____ HOW LONG AT THIS ADDRESS _____

PRESENT EMPLOYER _____ POSITION _____ MONTHLY INCOME \$ _____

BUSINESS ADDRESS _____ STREET _____ CITY _____ STATE _____ HOW MANY YEARS ON PRESENT JOB _____

PREVIOUS EMPLOYER _____ NAME _____ ADDRESS _____ HOW LONG? _____

WIFE'S EMPLOYER _____ HOW LONG _____ MONTHLY INCOME \$ _____

AUTO OWNED _____ MAKE _____ FINANCED BY _____ ADDRESS _____ MONTHLY PAYMENT OPEN CLOSED

IF SELF EMPLOYED _____ GIVE TYPE & NAME OF BUSINESS _____ POSITION _____ MONTHLY INCOME _____

BANK ACCOUNT WITH _____ NAME _____ STREET _____ CITY _____ STATE _____ CHECKING SAVING LOAN

HOME MORTGAGE OR RENT _____ NAME _____ STREET _____ CITY _____ STATE _____ OPEN CLOSED

CREDIT ACCOUNT WITH _____ NAME _____ STREET _____ CITY _____ STATE _____ OPEN CLOSED

CREDIT ACCOUNT WITH _____ NAME _____ STREET _____ CITY _____ STATE _____ OPEN CLOSED

NAME OF RELATIVE NOT LIVING WITH YOU _____ NAME _____ ADDRESS _____ RELATIONSHIP _____

MILITARY SERVICE INFORMATION: SELECTIVE SERVICE CLASS _____ MILITARY ADDRESS _____ RANK _____ PAY GRADE _____ SERIAL NUMBER _____ COMMANDING OFFICER _____ YOUR TIME IN SERVICE _____ YRS. _____ MOS. _____

TOTAL OF ALL MONTHLY PAYMENTS INCLUDING CAR AND MORTGAGE PAYMENTS \$ _____

FREE!

*B-A Catalogs
for your friends*

JUST FILL IN THEIR NAME
AND ADDRESS AND WE'LL
BE HAPPY TO SEND YOUR
FRIENDS THEIR OWN
PERSONAL B-A CATALOG!

NAME _____

ADDRESS _____

CITY _____

STATE _____ ZIP _____

NAME _____

ADDRESS _____

CITY _____

STATE _____ ZIP _____

NAME _____

ADDRESS _____

CITY _____

STATE _____ ZIP _____

TEAR OFF HERE

Panasonic

"The Orinda"

AC/BATTERY CASSETTE RECORDER WITH BUILT-IN CONDENSER MIKE

A masterpiece of miniature construction offering sound reproduction, performance and versatility of recorders several times its size. Features simple push-button controls for Record, Play and Stop; Slide control for fast forward and rewind and thumb operated control for volume. Sensitive built-in condenser mike picks up sounds with amazing clarity, also has Input for using remote mike. IC circuitry with automatic record level assures fine sound reproduction. Operates on regular AC, 4 "AA" pencil batteries, rechargeable RP-9212 batteries or 12 V. power source with adaptor (optional).

Only 6½" L. x 4" H. x 2" D. With carrying case, 4 "AA" pencils, cassette, earphone, AC cord/battery charger and erase plug, which allows you to erase without recording. Shlp. wt. 3½ lbs. No. 31A2630. Model RQ-212S.

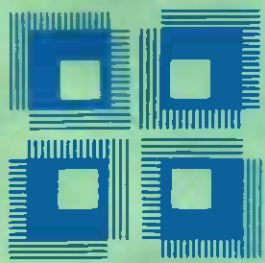
Each

\$69.95



MODEL RQ-212S

\$69.95



BELL & HOWELL

QUATRIX 4-CHANNEL AM/FM/ 8-TRACK SYSTEM

- INTEGRATED CIRCUITS
- FIELD EFFECT TRANSISTORS
- TUNED RF
- LIGHTED TUNING METER.
- 4-CHANNEL HEADPHONE JACK
- AUXILIARY INPUT JACKS



MODEL
3555CST

- SEPARATE FRONT-TO-REAR
AND LEFT-TO-RIGHT BALANCE

- SEPARATE AFC AND
POWER SWITCHES

Thrill to the new experience of three-dimensional sound. Built-in Quatrix decoding circuit converts 4-Channel material from encoded records or tapes and reproduces background information already inherent in many two-channel stereo records, tapes and FM broadcasts. A complete system with AM/FM tuner, 4 separate amplifiers, 4 full-range speakers, 8 track playback deck and Quatrix decoder. Also accepts any discrete 4-channel program through 4 input jacks provided. Features advanced design with integrated circuitry for increased reliability. FET's in tuner section give clearer sharper FM reception. Tuned RF stage provides better selectivity and greater rejection of stray signals and excess noise. Lighted tuning meter and "blackout" lighted dial scale facilitate pinpoint station selection. Built-in 8 track unit offers lighted channel indicators and push-button program selector. Has balance controls for front to rear and left to right. AFC & power switches.

Complete system with plank cherry grained all-wood cabinetry and canted dial scale includes master unit plus four matched speakers. Unit size: 5"H x 19 1/4"W x 12 1/2"D. Spkrs. size: 12 1/4"H x 8"W x 4 7/8"D. 120 VAC. 60 Hz. Shpg. wt. 45 lbs.

COMPLETE SYSTEM
\$219⁹⁵

STOCK NO.
31A7590

BA

BA BURSTEIN-APPLEBEE
3199 MERCIER ST.
KANSAS CITY, MO. 64111
ADDRESS CORRECTION REQUESTED
RETURN POSTAGE GUARANTEED

Bulk Rate
U.S. POSTAGE
PAID
PERMIT NO. 812
KANSAS CITY, MO.

**CHOICE OF THREE
EXCITING
DECORATOR
COLORS!**

- INTERLOCKING
COMPONENTS...
MODULE AND
SPEAKER
- SUBTLE
APPEARANCE
MATCHES ANY
SETTING OR
ANY DECOR



JBL

JBL PRIMA 25 SPEAKER SYSTEMS AND CABINETY OF EXCITING NEW ACOUSTIFORM

Combining the "Contemporary Concept" with traditional excellence, the L25 Speaker System/SM25 Storage Cube project the essence of JBL quality. There's no other ensemble like it!

L25 Prima Enclosure—a compact two-element loudspeaker system embodies the superior performance characteristics associated with JBL providing all of the subtleties of any musical passage with accuracy and clarity. There's no mystery about its solid bass reproduction; the L25 employs a 10" long excursion loudspeaker with 3½ lb. precisely machined magnetic assembly (with Alnico V magnet) and 2-inch handwound voice coil. The presence of the L25... which gives the feeling that the sound emits from in front of the speaker... is contributed by its 1.4 inch direct radiator. This high frequency device energized by 1.6 lb. of magnetic structure with an extremely narrow voice coil gap creates the mixture of overtones and harmonics which make up the distinguishing characteristic of sound... timbre. Manipulating the input signals, the variable dividing network joins with other elements in an acoustically ideal enclosure body for the incomparable "JBL Sound." Beautifully styled Semigloss enclosure measures 15½"H. x 19"W. x 14¾"D. Power capacity 35 watts continuous program. Dispersion 90 degrees horizontal and vertical. Crossover at 1500 Hz. Impedance 8 ohms. Shpg. wt. 35 lbs.

No. 33A2160. Red. Speaker System Only. Your
No. 33A2161. White. Speaker System Only. Choice
No. 33A2162. Blue. Speaker System Only. Each.....

\$126⁰⁰

SM25 STORAGE MODULE

Interlocks with L25 enclosure for complementary or contrasting color schemes. Each is made of the same new acoustiform material with fine Semigloss finish. Has slot opening in rear for stereo component cables. Possibilities for use and arrangement are as endless as the imagination. Dimensions: 15½" x 19" x 14¾" D.

No. 33A8509. Red. Storage Module Only. Your
No. 33A8510. White. Storage Module Only. Choice
No. 33A8511. Blue. Storage Module Only. Each.....

\$48⁰⁰

