

ANNUAL CATALOG 621

1962

RADIO • TV • ELECTRONICS



*35<sup>th</sup> Anniversary*

INDEX PAGE 210 . PHONE BALTIMORE 1-1155

**IRSTEIN-APPLEBEE CO. 1012-14 MCGEE St., KANSAS CITY 6, MO.**



# Garrard WORLD'S FINEST AUTOMATIC RECORD CHANGERS



TYPE A

## 1¢ SALE!

BUY ANY OF THESE CHANGERS & B-A WILL INCLUDE YOUR CHOICE OF GE VR1007, PICKERING 380C, SHURE M7D STEREO CARTRIDGES

FOR ONLY 1¢ MORE

**DYNA-EMPIRE  
108 CARTRIDGE  
\$35.00 VALUE  
1¢ WITH TYPE A**



NEW  
AT6



NEW  
AUTOSLIM

Incomparable precision quality... truly the world's finest record changers for stereo or monaural. Combine the features and performance of the best professional turntables with advantages of automatic play. Outstanding new feature is the very accessible side/slide control levers which simplify speed selection, manual control, etc.  
Plays all records 78, 33 $\frac{1}{3}$ , 45 and 16 $\frac{2}{3}$  RPM, all sizes 7, 10 and 12" with automatic shut-off at end

of last record. Features unusually quiet, smooth 4 pole motor, true-turret drive without belts for true even speed, and free-wheeling ball-bearing turntable mount to prevent wows and flutter. Turntable rubber-matted for full record protection. Simple to install. Hardware supplied for unique spring suspension. Wired for monaural and stereo. 6 ft. AC cord and pickup cables terminating in standard phono jacks included. For 105-125 V. 60 cy. AC.

BUY ON B-A'S  
EASY TERMS

## GARRARD ACCESSORIES

### NEW TAMBOUR TABLE MODEL CABINET



Houses any Garrard unit. Beautifully built of satin and scuff resistant formica in rich walnut color. Records may be played with cabinet completely closed. Overall dimensions: 15 $\frac{1}{2}$ " deep, 10 $\frac{1}{4}$ " high, 18" wide.  
No. 30B33. For Type A & 88 Series.  
No. 30B34. For Model 210, Autoslim & AT6.  
No. 30B35. With Blank Board to Mount Any Make or Model.  
Your Choice, Each... **\$34.50**



① **PRECUT CHANGER CARRYING CASE**  
Well constructed of seasoned wood with durable covering. Size 16 $\frac{1}{2}$ " L, 14" V, 10 $\frac{3}{8}$ " H. Wt. 7 lbs.  
No. 40B194. For Models RC88/11, Type A, Each... **\$17.50**

② **PRECUT MOUNTING BOARDS**  
For custom installation. Sanded smooth, unfinished.  
No. 33D89. For RC88/11, Type A. Each **\$2.25**  
No. 31B69. For T/11. Each... **2.25**  
No. 30A142. For RC-210, AT6 & Autoslim. Each... **\$2.25**

③ **PRECUT WOOD MOUNTING BASES**  
Specify Mohogany, Blonde or Walnut finish.  
No. 33A29. For RC88/11, Type A. Each **\$4.00**  
No. 33A41. For T/11. Each... **4.00**  
No. 30A149. For RC-210, AT6 & Autoslim. Each... **\$4.00**

### 45 RPM SPINDLE FOR ALL GARRARD CHANGERS

For automatically playing 45 RPM records.  
No. 33D83. For RC88/11, Type A. Each... **\$3.00**  
No. 33D84. For RC-210. Each... **3.00**  
No. 30B29. For AT6 & Autoslim. Each... **\$3.00**

### GARRARD DUST COVERS

Transparent, formed vinyl covers. Offer an attractive protector for your Garrard changer.  
No. 30B12. For AT6. Each... **\$4.00**  
No. 30B13. For Autoslim. Each... **\$4.00**  
No. 30A274. For Type A. Each... **\$4.00**  
No. 30A276. For RC210. Each... **\$4.00**  
No. 30A275. For RC88, 88/MK11. Ea... **\$4.00**

### 7-INCH RECORD ADAPTER

Clip-on adaptor Type A, 88 series, automatically play small hole 33 $\frac{1}{3}$  records.  
No. 30B28. Ea... **\$1.00**

### SPG3 PRESSURE GAUGE

New, accurate, easy to use pressure gauge. Feature large legible scale, visible through a clear plastic window, with widely spaced gram markings. Complete with 5 gram brass weight for "zeroing" unit to assure utmost accuracy. Plastic scale pan is easy to use of the swiveling balance and pressure gauge. Feature delicate styli and is of the swiveling balance type guarantees sensitivity. Use with cartridge or tone arm.  
No. 16B595. Net Each... **\$2.00**

## REVOLUTIONARY NEW TYPE A GARRARD AUTOMATIC TURNTABLE

At last, professional turntable and professional tone arm combined with the convenience of playing records automatically. Incomparable Garrard quality for the finest record changer of all times.  
Tone arm dynamically balanced features adjustable rear counterweight with independent tracking pressure adjustment. Knurled knob moves along calibrated scale, permits proper pressure setting to specifications of cartridge manufacturer. Tracks without side pressure giving balanced stereo reproduction with minimal record wear and distortion. Equal or superior to separate tone arms selling for \$35.00.  
Turntable 6 pounds weighted, dynamically balanced, provides increased torque and flywheel action insures silent on-speed running. Two-piece construction, with foam disc separator further damps noise and vibration. Motor completely shielded with specially designed and oriented plates, quiet on-speed performance,

regardless of load or voltage changes. Changing mechanism Garrard's exclusive pusher type with one-piece center spindle. Short spindle included for manual play. Also accommodates 45 RPM spindle listed at right with accessories.  
Leveling of changer accomplished simply by knurled knob on side of the unit plate. Size 12 $\frac{1}{4}$ " D. x 15" W. x 2 $\frac{5}{8}$ " below and 5 $\frac{3}{4}$ " above motor board. Additional 1 $\frac{1}{2}$ " clearance is required at rear and side of tone arm to give clearance for counterweight. Color is rich fawn, contrasted with white and lustrous metal. Shpg. wt. 19 lbs.

Stk. No.	Cartridge (Stylus)	Net Each
30A269	None with Plug-in Head	\$79.50
30A271	GE VR1007 LP (\$24.95 Value)	Add 1¢
30A272	Pickering 380C (\$24.45 Value)	Add 1¢
30A273	Shure M7D (\$23.52 Value)	Add 1¢
30A292	Dyna-Empire 108 (\$35.00 Value)	Add 1¢

## NEW GARRARD AT6 AUTOMATIC TURNTABLE

Only surpassed by the famous Garrard Type A, this new automatic turntable combines the features of a counter-balanced tone arm, large turntable and professional performance into a compact unit—the answer to many installations where space is restricted. Tone arm of tubular design is dynamically counter-balanced with adjustable counterweight for zeroing any cartridge. Built-in gram scale permits setting of tracking weight without use of separate pressure gauge.  
Perfectly balanced oversized turntable provides heavy torque and flywheel action to insure silent operation and accurate speed. Changing mechanism handles records gently with precision accuracy. Interchangeable spindles permit using of short one for convenient manual playing of records singly.  
Replaceable plug-in shell with bayonet connector permits the use of any cartridge; simplifies changing

cartridges. Fully wired for stereo with 4 pin fully isolated system, utilizing a fifth separate grounding lead.

New precision 4 pole shaded motor is accurate, powerful and silent. Color is rich fawn, contrasted with white and with lustrous metal. Mtg. dimensions and required cabinet space: 14 $\frac{1}{2}$ " wide, 12 $\frac{1}{2}$ " deep; 4 $\frac{1}{2}$ " above and 2 $\frac{3}{8}$ " below top of motor board. Additional 1 $\frac{1}{2}$ " required at rear and to right rear of tone arm for clearance of counterweight. Operates from 100-130 volt 60 cycles AC. Net wt. 10 lbs. Shpg. wt. 12 lbs.

Stk. No.	Stereo Cartridge	Net Each
30B22	None with Plug-in Head	\$54.50
30B23	With GE VR1007	\$4.51
30B24	With Pickering 380C	\$4.51
30B25	With Shure M7D	\$4.51

## NEW AUTOSLIM AUTOMATIC MANUAL INTERMIX RECORD CHANGER

An entirely new standard of styling and performance. Economically priced but with the features and quality as only Garrard can produce. Most compact of record changers only 6 $\frac{1}{4}$ " in height, overall requires only 4 $\frac{1}{4}$ " above top of motor board; 2 $\frac{3}{8}$ " below. 14 $\frac{1}{4}$ " wide by 12 $\frac{1}{2}$ " deep.  
Intermixes all records regardless of size or sequence. Features: one-piece diecast tone arm for non-resonance and rigidity. Completely separate manual and automatic controls for playing records individually or automatically on Garrard's new center-changing mechanism. New-type turntable and 4-pole shaded motor are designed to provide the ideal combination

of torque, balance and quiet turning. Simple downward pressure of the tone arm on tone arm rest locks it, preventing accidental damage to records. Simple upward movement frees it. Beautiful blue/grey unit plate, with white trim. Operates on 100-130 volt 60 cycle AC. Wt. 7 lbs. Shpg. wt. 9 lbs.

Stk. No.	Cartridge	Net Each
30B8	Less Cartridge	\$39.50
30B9	With GE VR1007 (\$24.95 Value)	\$9.51
30B10	With Pickering 380C (\$24.45 Value)	\$9.51
30B11	With Shure M7D (\$23.52 Value)	\$9.51



A complete new line, offering the most advanced features, performance and styling from the world's foremost manufacturer of high fidelity components.

# NEW STEREO COMPONENTS BY



SOUND DIVISION OF

Thompson-Ramo-Woolridge, Inc.

**ALL NEW BELL STEREO COMPONENTS ARE DESIGNED FOR QUICK, SIMPLE PANEL MOUNTING**

SEE PAGES 3A, 3B, 3C FOR TREMENDOUS SAVINGS ON SYSTEMS INCORPORATING THESE AMPLIFIERS

**NEW BEAUTY:** Trim, slim lines; deep gold-anodized panel; indirect lighting, walnut vinyl covers.  
**NEW ENGINEERING:** Stronger structural materials, new chassis layout for a higher level of musical fidelity and performance.  
**NEW DESIGN:** Distinction between major and minor controls in location, color, size—to simplify operation by the non-experts in your household.

## FINEST ALL-IN-ONE STEREO COMPONENTS FOR FAMILY ENJOYMENT

### 44-WATT STEREO AMPLIFIER-TUNER COMBINATION



MODEL 2445 **\$329<sup>95</sup>**

### 30-WATT STEREO AMPLIFIER-TUNER COMBINATION



MODEL 2425 **\$229<sup>95</sup>**

**BOTH OF THESE UNITS PLAY EVERY STEREO PROGRAM SOURCE . . . STEREO RECORDS, STEREO TAPES, AM-FM SIMULCASTS, FM MULTIPLEX (with use of adaptor)**

**SPECIAL BELL FM MULTIPLEX ADAPTOR**

**\$39<sup>95</sup>**

**\$19<sup>95</sup>**

When purchased with Bell Components or System using Bell components.

Add Multiplex now at this big saving Stock No. 30C74

### 44-WATT STEREO AMPLIFIER-TUNER COMBINATION

Combines in one compact unit an exceptional 44 watt stereo amplifier and AM-FM stereo tuner. Provides every feature, every control necessary for the finest in stereo reproduction, regardless of the program source. Versatility of inputs for stereo phono, 2 magnetic and 1 ceramic, tape head as well as tape amplifier with provision for addition of FM multiplex with use of adaptor listed at right. Major controls for simplified operation include push-pull on-off power switch, volume, function selector switch, balance, and separate AM and FM tuning. Other front panel controls which may be used at the discretion of the user for personalized listening are separate bass and treble controls for each channel, monoaural-stereo-reverse, two position loudness for full range listening at low volume, separate low filter and high filter switch for eliminating turntable rumble as well as needle scratch, plus AFC switch for positive lock-in of FM broadcasts.

Separate edge-vu signal strength meters for AM and FM insure easy positive accurate tuning of all broadcasts. Wide band response provides AM reception to almost FM performance. Extreme sensitivity with 3 gang tuning on both AM and FM makes it hard to get stations.

T.H.D. @ 1 KC @ 40 watts. Hum and noise: 76 db below 22 watts. Dual inputs: (6) tape head, mag. phono 1; mag. phono 2; ceramic phono; aux-mx; tape amp. Tone controls: left and right bass (separate)  $\pm 15$  db @ 50 cps. Left and right treble (separate)  $\pm 15$  db @ 10,000 cps. Switches: AFC; on-off, low filter 50 cps cutoff; high filter 5000 cps cutoff; loudness, off 1-2. Dual outputs (4): 4, 8, 16 ohms, high impedance for tape recorder. Tubes (10) 4-7189A, 5-12AX7, 1-GZ34/5AR4.

**FM Tuner Section:** Sensitivity: 1-2 uv for 20 db quieting; 1.8 uv for 30 db quieting. Selectivity: 6 db down @ 250 KC. Image rejection: -65 db. Distortion: below 1% T.H.D. @ 100% modulation. Freq. resp: 20-20,000 cps  $\pm .5$  db. Hum and noise: -52 db.

**AM Tuner Section:** sensitivity: 4 uv for 20 db signal-to-noise ratio. Selectivity: 6 db bandwidth @ 8 KC. Image rejection: -100 db. Distortion: below 1% T.H.D. @ 80% modulation. Freq. resp: 20-5000 cps (includes 10 KC whistle filter). Hum and noise: -60 db. Tubes, tuner: (12) 2-ECC85; 1-6AB4; 3-6AU6; 2-6BA6; 1-6BE6; 2-6BN8, 1-EZ80/6V4.

Total power consumption: 250 watts @ 117 V. 60 cycles. Size 5 $\frac{1}{8}$ " H, 17 $\frac{3}{8}$ " W, 13 $\frac{3}{4}$ " D. Shpg. wt. 40 lbs. No. 30B41. Each **\$329.95**

### BELL MODEL 2420 34-WATT STEREO AMPLIFIER



Beautifully styled, brilliantly designed, with a combination of features never before offered for your listening pleasure, this new Bell Amplifier provides unmatched high-fidelity power (17 watts per channel) from any program source. Controls are conveniently grouped so that most often used knobs are different size and color from those less often needed, allowing any non-technical member of the household to operate the set with ease. Other features include two sets of phono inputs, tape head inputs as well as tape amp inputs, individual bass and treble controls for each channel. Filter switches screen out record scratch and turntable rumble without cutting music response. Loudness control switch boosts bass response at low-level listening.

**Specifications:** power output 17 watts per channel, 34 watt total; frequency response 20-20,000 cps  $\pm 1$  db; distortion less than 1% at 28 watts, hum and noise 72 db below 17 watts; 7 dual inputs: tape head, mag. phono 1, mag. phono 2, ceramic phono, tuner, aux-mx tape amp; tone controls, bass and treble for left and right channels; 2 filter switches, low (50 cps) and high (5000 cps); dual output for 4, 8, 16 ohm, plus high impedance for tape recorder. Tubes include 4-6V6GT, 5-12AX7, 1-EZ81/6CA4. Total power consumption 120 watts; 117 V. 60 cycle AC. Size of cabinet 5 $\frac{1}{8}$ " H, 17 $\frac{3}{8}$ " W, 10 $\frac{5}{8}$ " D. Shpg. wt. 22 lbs. No. 30B43 Model 2420. Each **\$129.95**

### 30-WATT STEREO AMPLIFIER-TUNER COMBINATION

The finest all-in-one stereo combination in its price range. Incorporates into one compact unit a full watt stereo amplifier and FM-AM stereo tuner. Plays every stereo program source plus standard AM and FM broadcasts. Features include automatic frequency control and multiplex output for use with adaptor listed at right.

**Specifications Amplifier Section:** 15 watts power output each channel, 30 watts total; frequency response 20-20,000 cps  $\pm 2$  db with less than 2% distortion; hum and noise level 66 db below 15 watts; tube complement 4-6V6GT, 4-12AX7, 1-EZ81/6V4.

**Tuner Section:** sensitivity 1.5 uv for 20 db quieting, 2.5 uv for 30 db quieting; selectivity 6 db

down at 240 KC; distortion below 1.5% T.H.D. at 100% modulation; frequency response 20-20,000 cps  $\pm .5$  db; hum and noise level -52 db.

**AM Tuner Section:** sensitivity 6 uv for 20 db for signal to noise ratio; selectivity 6 db bandwidth at 8 KC; distortion below 1.5% T.H.D. at 30% modulation; frequency response 20-5000 cps; hum and noise -65 db.

**Tuner tube complement:** 2-ECC85, 3-6AU6, 1-6AL5, 1-6BE6, 1-6BA6, 1-EZ80/6V4.

Has separate tone controls, source selector switch and balance. Dual inputs for magnetic phono and auxiliary. Outputs for 8 and 16 ohms, high impedance for tape recorder. Size 5 $\frac{1}{8}$ " H, 17 $\frac{3}{8}$ " W, 13 $\frac{3}{4}$ " D. Wt. 29 lbs. No. 30B40. Model 2425. Each **\$229.95**

### MODEL 2421 FM-AM STEREO TUNER



Low cost stereo tuner uses same basic circuit as tuner section of Model 2425 listed above. Sensitive FM section of 1.5 microvolt has grounded grid RF stage, AFC plus output for multiplex. See adaptor listed above. For detailed specifications see tuner section of model 2425 above. Size 5 $\frac{1}{8}$ " H, 17 $\frac{3}{8}$ " W, 10 $\frac{5}{8}$ " D. Shpg. wt. 18 lbs. No. 30B70 **\$129.95**

### MODEL 2441 FM-AM STEREO TUNER

Same basic tuner as supplied with Model 2445 above. Extremely sensitive FM section of 1.2 microvolts pulls in even the weakest signals at low distortion, has three wide-band IF stages, and balanced ratio detector. AM section has built-in automatic volume control, 3 gang tuning capacitor on both AM and FM. See above for detailed specifications. Size 5 $\frac{1}{8}$ " H, 17 $\frac{3}{8}$ " W, 10 $\frac{5}{8}$ " D. Wt. 20 lbs. No. 30B69 Each **\$179.95**



NOTE: List prices shown in this catalog are those suggested by the Manufacturers.



### 44-WATT STEREO AMPLIFIER

**\$179<sup>95</sup>**  
MODEL 2440

**NO MONEY DOWN ON EASY TERMS**

- 20-20,000 cps frequency response.
- 22 watts per channel.
- Direct current filaments.
- Beautiful modernistic styling.
- Tape head input.



**MODEL 2418**  
**\$109<sup>95</sup>**

- 20-20,000 cps freq. response.
- 15 watts each channel.
- Simplified controls.
- Modern styling.

# Bell

## ALL NEW 1962 STEREO AMPLIFIERS

WITH A COMBINATION OF FEATURES NEVER BEFORE OFFERED FOR YOUR LISTENING PLEASURE!

### MODEL 2440 44 WATT STEREO AMPLIFIER

Provides the finest quality stereo reproduction of music. Completely versatile, accepts any program source, from tape head, tape amplifier, magnetic phono, ceramic phono or tuner. Full provision for controlling the sound to give music the same quality it had when originally recorded.

Only basic controls, such as volume and balance need be used, once program selector switch has been set to desired source.

Makes it ideal for the wife who is interested in simplicity of operation. Secondary controls for complete adjustment are on lower portion of panel, all are dark in color as contrasted to white for the others.

These include separate bass and treble controls for each channel. Switches for record scratch and rumble suppression. Two position loudness compensation for full tonal response at low level.

Specifications: Music power output: 22

watts each channel, total 44 watts (IHFM method). Frequency response: 20-20,000 cps  $\pm$  1 db. Power response: 35-20,000 cps @ 40 watts RMS  $\pm$  1 db. Distortion: less than 1% T.H.D. @ 1 KC @ 40 watts. Hum and noise: 76 db below 22 watts. Dual inputs (6): Tape head, Mag. phono 1; Mag. phono 2; ceramic phono; Aux-mx; Tape amp. Tone controls: left bass  $\pm$  15 db @ 50 cps; left treble  $\pm$  15 db @ 10,000 cps; Right bass  $\pm$  15 db @ 50 cps; Right treble  $\pm$  15 db @ 10,000 cps. Switches: AFC, On-off; Lo filter 50 cps cutoff; Hi filter 5000 cps cutoff; Loudness off-1-2. Dual outputs (4): 4, 8, 16 ohms. High impedance for Tape Recorder.

Tubes (10): 4-7189A, 5-12AX7, 1-GZ34/5AR4. Total power cons: 250 watts @ 117 V, 60 cycles. Size: 5 $\frac{7}{8}$ " H, 17 $\frac{1}{8}$ " W, 10 $\frac{5}{8}$ " D. Shpg. wt. 32 lbs.  
No. 30B73  
Net Each **\$179.95**

### MODEL 2418 30 WATT STEREO AMPLIFIER

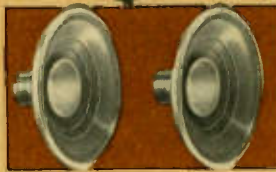
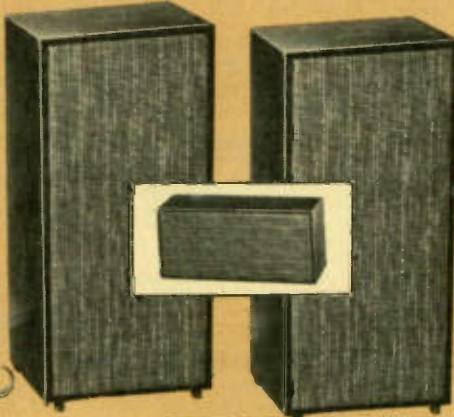
Bell's advanced engineering design has resulted in outstanding transient response with extremely low noise and distortion. Provides a music listening quality comparable only to amplifiers costing considerably more. Front panel controls include function switch for mag phono and aux-mx, volume control for both channels simultaneously, and blend control for precise listening level of both speakers. Tone controls are dual type, automatically setting bass and treble for both speakers at the same time. A perfect basic amplifier for starting your high-fidelity system.

Specifications: Music power output 15

watts per channel, 30 watts total; frequency response 20-20,000 cps  $\pm$  2 db distortion less than 2% @ 1 KC @ 24 watts; hum and noise 66 db below 11 watts; dual inputs (2) mag. phono, aux-mx; tone controls (2) dual bass  $\pm$  10 db @ 50 cps, dual treble  $\pm$  10 db @ 10,000 cps; Dual outputs (3) 8, 16 ohms for speakers, high impedance for tape recorder. Tubes (9) 4-6V6GT, 4-12AX7 1-EZ81/6V4. Size 5 $\frac{7}{8}$ " H, 14 $\frac{1}{4}$ " W, 10 $\frac{3}{8}$ " D. Wt. 19 lbs.

No. 30B77. Model 2418. **\$109.95**  
Net Each

## OUR LOWEST PRICED STEREO HIGH FIDELITY SYSTEM



**YOU SAVE \$91.70!**

REGULAR VALUE \$241.65

**\$149<sup>95</sup>**

**NO MONEY DOWN ON EASY TERMS**

- Bell 2418 30-Watt Stereo Amplifier.
- 2 Norelco 8" Twin-Cone Speakers.
- Lesa CD2/21 4-Speed Record Changer and Base.
- GE VR1000-7 Stereo Cartridge with Diamond Stylus.
- 2 Quality constructed "Tall Slim" Enclosures.

An outstanding value . . . a custom matched system of popularly priced stereo components. Compares with systems selling for much more.

**Bell 2418 30-Watt Stereo Amplifier** (listed above) has 15 watts of undistorted power on each channel. 20-20,000 cps freq. response. Combines superior quality construction, exceptional versatility of controls and the ultimate in modern styling. See listing above for detailed specifications.

**Lesa CD2/21 4-Speed Intermix Changer** (with mounting base) handles all sizes and speeds of records gently and accurately due to precision made construction by Italy's largest electronics manufacturer. Unusually quiet 4-pole motor, 6-second change cycle regardless of record speed.

**General Electric VR-1000-7 Stereo Cartridge** with .7 mil diamond stylus plays all stereo and mono LP records with flawless perfection. GE's famous variable reluctance principle assures maximum fidelity, minimum hum, widest separation.

**Two Norelco 8" Twin-Cone Speakers** (Reg. \$9.90 Audiophile net value)  
**3A**

rated at 6 watts continuous and 10 watts peak, 4-6 ohms impedance, frequency response 75-19,000 cps, provides excellent tonal reproduction mount in the two "Tall Slim" two-way design enclosures for floor or bookshelf use (page 194). Two 25 ft. coils of speaker cables supplied.

**COMPLETE STEREO SYSTEM**—30-Watt Bell Amplifier, Lesa Changer w Base and GE Stereo Cartridge, 2 Norelco Speakers and 2 Enclosures. **Spec finish—Mahogany or Blonde.** Shpg. wt 85 lbs. Net Value \$241.65

No. 49A102. **\$149.95**  
Special Net

### STEREO SYSTEM FOR CUSTOM INSTALLATION

Consists of Bell 2418 30-Watt Stereo Amplifier, Lesa CD2/21 Changer (w GE Stereo Cartridge but less changer base), Two Norelco 8" Speakers, 1 enclosure.

No. 49A103. Special Net **\$124.95**



# B-A SELECTED STEREO SYSTEMS

Chosen by B-A's Audio Experts to give you the best possible system in each price category. You can be assured that each component matches in quality with every other component in system.

And best of all . . . by buying a B-A selected system you make substantial dollar savings over buying components individually.

**B-A'S MONEY-BACK GUARANTEE**  
 Try any system or component for up to 15 days . . . if not fully satisfied return it in its original condition and packing for exchange or full refund (minus only transportation charges.)

**BUY FOR CASH OR ON B-A'S EASY PAY PLAN!**

## OUR FINEST STEREO HIGH FIDELITY SYSTEM

### WITH YOUR CHOICE OF CARTRIDGE AND SPEAKERS

Each and every component in this system is perfectly matched in quality and performance. Truly the ultimate in home music systems . . . at real dollar savings. Your choice of speakers and cartridges all at one low price.

**Features Bell 2440 44-Watt Stereo High-Fidelity Amplifier.** All the features you'll ever need for the reproduction of fine music. See full description of amplifier on page at left.

**Garrard Type A Automatic Turntable.** A professional turntable and professional tone arm combined with the convenience of playing records automatically. Dynamically balanced tone arm features adjustable rear counterweight. 5 lb. turntable is weighted, dynamically balanced, providing increased torque and flywheel action for true-speed rotation. Changing mechanism is Garrard's exclusive pusher-type with one piece center spindle. Size 12 1/4" D. x 15" W. x 2 5/8" below and 5 3/4" above motor board. Color is rich Fawn, contrasted with white and lustrous metal. (See page 2 for full specifications).

**Choice of these Top Magnetic Cartridges:** GE VR1000-7 Stereo Cartridge with .7 mil diamond stylus; Shure M7D Stereo Cartridge; Pickering 380C Stereo Cartridge or Audio Empire 108.

**Two E-V 12TRXB 12-Inch Three-Way Speakers.** Each complete with adjustable brilliance controls to match room acoustics. Provides magnificent well-balanced wide range response even at subdued volume level. 50 ft. of speaker cable included. (See page 4 for full specifications).

**Two Beautiful Speaker Enclosures** in choice of finish. Made of finest hardwoods. Acoustically designed to provide amazing sound reproduction using minimum of space. Perfect match for above three-way speakers. Size 23 1/2" H. x 17" W. x 12" D.

**COMPLETE STEREO SYSTEM**—Bell 2440 Stereo Amplifier, Garrard Changer with Base and your choice of cartridge, 2 E-V 12TRXB speakers with 50 ft. of cable and 2 speaker enclosures. **Specify Finish—Mahogany, Blonde or Walnut, also specify choice of cartridge.**

No. 49A112. Reg. Value \$493.80. **Special**..... **\$349.95**  
**FOR CUSTOM INSTALLATIONS**  
 Consists of Bell 2440 Amplifier, Garrard Type A Changer (less Base) and your choice of cartridge, and 2 E-V 12TRXB speakers. Shpg. wt. 65 lbs.  
 No. 49A109. Reg. Value \$428.95. **Special**..... **\$299.50**

**COMPLETE STEREO SYSTEM**  
 As described above No. 49A112—except without 12TRXB speakers and enclosures) **BUT WITH 2 E-V LEYTONS** Low Resonance Ultra Compact Systems. Provides top performance in a small space. Utilizes a special 12" high-compliance low frequency driver with 1 lb. 6 oz. ceramic magnet and matched 8" high frequency unit. Resulting low-resonance system out-performs speakers and enclosures many times its size and at a considerable saving. Cabinet in beautiful walnut hand rubbed hardwood veneers. Size 4 1/8" H., 24" W., 12" D. **Specify Cartridge.**

No. 49A113. Reg. Value \$458.35. **Special**..... **\$349.95**

**SAVE UP TO \$143.85**  
 REGULAR VALUES TO \$493.80  
**PRICED FROM**  
**\$299<sup>50</sup>**  
**WITH YOUR CHOICE BETWEEN 2 SPEAKER SYSTEMS AND 4 FAMOUS-MAKE CARTRIDGES**



## BUDGET-PRICED SPACE SAVER

B-A has brought together these quality components, matched to bring to you stereophonic three dimensional sound at an amazing low cost. Complete in every way for playing all speeds, all sizes of records both stereo and monophonic.

**Heart of the System is the Bell Model 2420 34-Watt Stereo Amplifier** described on page 3. Actually two 17 watt linear amplifiers on one chassis, featuring a complete array of controls including a single master gain control for simultaneous adjustment of both channels for proper listening level. Extremely wide range frequency response insures the finest in stereo listening.

**Garrard Autoslim 4-Speed Record Changer** (page 2) is complete with handsome mounting base and famous Shure M7D Stereo Cartridge. Plays all microgroove records, monaural and stereo. Two beautiful space-saving 12" enclosures styled to match any decor, in choice of walnut or blonde. Capacity 3 cu. ft. size 27" H., 19 1/4" W., 13 1/2" D. Ducted-porft design assures the finest reproduction possible from such compact units.

**Two 12-Inch Norelco Twin Cone Speakers**, regular net price \$39.00 each conservatively rated at 20 watt continuous, 30 watts peak. Freq. resp. 30-1,000 cps. 2-25 ft. coils of speaker cable supplied.

**COMPLETE STEREO SYSTEM**—Bell 34 Watt Stereo Amplifier, Record Changer with Base, 2-12" Norelco Speakers, and 2 Speaker Enclosures. **Specify finish—Walnut or Blonde.** Shpg. wt. 110 lbs.

No. 49A110. Reg. Value \$327.40. **Special**..... **\$199.50**  
**FOR CUSTOM INSTALLATION**  
 Another big \$\$\$ saving B-A Value—you save \$122.50. Consists of Bell 34-Watt Stereo Amplifier as above, Garrard Autoslim Changer (less base) and Shure M7D Stereo Cartridge and .7 mil diamond needle, and 2 Norelco Twin-Cone 12" Speakers, 2-25 ft. coils of speaker cable included. Shpg. wt. 56 lbs.  
 No. 49A111. Reg. Value \$286.45. **Special**..... **\$163.95**

**YOU SAVE \$127.45**  
 REGULAR VALUE \$327.40  
**\$199<sup>50</sup>**  
**FOR CUSTOM INSTALLATION**



**FOR CUSTOM INSTALLATION**  
 Regular Net Value **\$286.45**  
**\$163<sup>95</sup>**



**YOU SAVE \$150.85**

REG. VALUE \$630.80

**\$479<sup>95</sup>**  
No Money Down

**CHOICE BETWEEN 2 SPEAKER SYSTEMS AND 4 CARTRIDGES**



**EY LEYTON**

**OUR FINEST HI-FI SYSTEM WITH BELL 2445 STEREO AM-FM TUNER AND AMPLIFIER**

**Bell 2445 Stereo Receiver** combines on one chassis a highly sensitive FM Tuner a superb AM Tuner, a 44-Watt Stereo Amplifier, and a versatile control center. Unexcelled quality is engineered into every component for matchless stereo fidelity. Tuner includes separate signal strength meters for both AM and FM, 3 gang tuning condenser and AFC. Amplifier has 22 watts of power per channel at 20-20,000 cps, simplified controls. For detailed specifications see page 3.

**Garrard Type A Automatic Turntable and Tone Arm** of professional quality combined with Garrard's exclusive push-type center spindle drop, give all the convenience of a top-quality record changer and a precision turntable. Dynamically balanced tone arm features adjustable rear counter weight, with tracking pressure adjustment. 6 lb. turntable is dynamically balanced for constant wow-free speeds. Size 12 1/4" D x 15" W x 2 5/8" below and 5 3/4" above motor board. Color rich Fawn, contrasted with white and lustrous metal. **Your Choice of the World's Finest Stereo Cartridges**—GE VR-1000-7 (Reg. \$24.45); Shure M7D (Reg. \$24.00); Pickering 380C (Reg. \$29.85); or Empire 108 (Reg. \$37.50).

**Two E-V12TRXB 12-Inch 3-Way Speakers.** Provides magnificent tonal reproduction over entire frequency range, rich bass, smooth mid-range, sparkling highs. Each has its own adjustable brilliance control for matching room acoustics. 50-ft. of speaker cable supplied. (See page 4 for full specs.)

**Two Beautiful Speaker Enclosures** in choice of finish. Made of finest hardwoods. Space saver design fits anywhere, and offers amazing sound reproduction. Perfect match for above 3-way speakers. Size 23 1/2" H x 17" W x 12" D. **COMPLETE STEREO RECEIVER SYSTEM**—Bell 2445 Receiver, Garrard Type A Changer and base, your choice of 4 Cartridges, 2 three-way Speakers with 50 ft. of cable and two enclosures. Specify finish—Blonde, Mahogany or Walnut. Shpg. wt. 90 lbs.

No. 49A106 Reg. Value \$630.80. Special. **\$479.95**

**THE LEYTON SYSTEM**—Same system as above with the famous Electro-Voice Leyton low-resonance speaker systems, in place of the E-V 12TRXB and 12" enclosures listed above. The Leyton utilizes a special high-compliance low frequency driver (12" dia.) with 1 lb. 6 oz. ceramic magnet, and a matched 8" high frequency unit, resulting in a small size speaker-enclosure system that out-performs speakers and enclosures many times its size. Enclosure in beautiful hand rubbed walnut is 14 1/8" H, 24" W, 12" D.

No. 49A107 Reg. Value \$607.90. Special. **\$479.95**

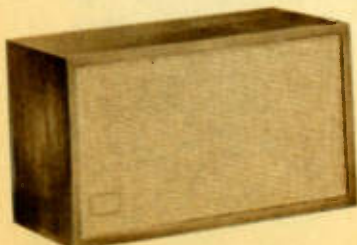
**FOR CUSTOM INSTALLATION**

Consists of above system less enclosure and changer base, for built-in installations. Includes Bell 2445 Receiver, Type A Changer less base, Cortridge of your choice, and 2 12TRXB speakers.

No. 49A108 Reg. Value. \$565.95. Special. **\$423.52**

**"THE LEYTON" ULTRA COMPACT SPEAKER SYSTEM**

*Electro-Voice*



Amazing performance bookshelf speaker system. Out-performs speakers and enclosures several times its size and costing considerably more. Utilizes special high compliance, 12 inch woofer with 1 3/8 lb. ceramic magnet and long-throw voice coils for extended bass response. True 2-way system, crosses over at 200 cycles. 8" mid-high range speaker totally isolated preventing interaction with woofer. Power handling capacity 70 watts. Response 40-13,000 cycles flat, usable frequency beyond audibility. Imp 8 ohms. Size 14" H, 25" W 12" D wt. 29 lbs. Hand rubbed walnut veneer. No. 40A357. Net **\$84.50**

3C

**YOU SAVE \$174.30**

REG. VALUE \$504.25

**\$329<sup>95</sup>**  
No Money Down

- Bell 2425 AM-FM Stereo Tuner and Amplifier.
- 2 Norelco 12" Twin-Cone Speakers.
- Garrard AT6 4-Speed Record Changer.
- Shure M7D Cartridge.
- 2 Beautiful Speaker Enclosures.



**OUR BUDGET-PRICED STEREO SYSTEM WITH BELL 2425 AM-FM STEREO TUNER AND AMPLIFIER**

**Bell 2425 30-Watt Stereo Combination.** Combines in one compact chassis a stereo AM-FM Tuner with a 30-Watt Stereo Amplifier and versatile control center. Freq. resp. 20-20,000 cps ± 2 db. FM sensitivity 1.5 uv, AM sensitivity 6 uv. Tubes 4-6V6GT, 4-12AX7, 1-EZB1/6V4, 2-ECC85, 3-6AU6, 1-6AL5, 1-6BE6, 1-6BA6, 1-EZ80/6V4. For detailed specifications see page 3.

**Garrard AT6 Automatic Turntable.** Combines a counter-balanced tone arm, large turntable and professional performance into one compact unit. Handles records of all sizes and all 4 speeds with precision accuracy (see page 2 for detailed specifications).

**Shure M7D Magnetic Cartridge** (Reg. \$24.00) with diamond stylus. Rated "tops" by the experts.

**2 Norelco 12" Twin-Cone Super Deluxe Speakers** (Reg. \$72.50 Value). Superbly engineered for finest sound reproduction as demanded by the most discriminating high fidelity enthusiasts. Incorporates Ticonal VII, the most powerful of modern magnet alloys, with long air-gap and extra high flux density (11,000 gauss) for exceptional transient response, maximum efficiency (14% at 400 cps) and damping. Constant impedance assures flat response curve, frequency range very conservatively rated 35 to 18,000 cps. Employs two cones which are always in phase, operate in complete harmony, providing a wider, more effective distribution of sound. Power handling capacity, also conservatively rated, 20 watts continuous with 30 watts peak. Voice coil impedance 8 ohms.

**Two Beautiful Speaker Enclosures** in choice of finish. Made of finest hardwoods. Space saver design fits anywhere, and offers amazing sound reproduction. Perfect match for above speakers. Size 23 1/2" H x 17" W x 12" D.

**COMPLETE STEREO SYSTEM**—Bell 2425 Stereo Combination, Garrard AT6 Changer with Base and Shure M7D Cartridge, 2-12" Norelco Twin-Cone Speakers with 50 ft. speaker cable and 2 Enclosures. Specify finish—Mahogany, Blonde or Walnut. Shpg. wt. 90 lbs. No. 49A104 Reg. Value \$504.25. Special. **\$329.95**

**FOR CUSTOM INSTALLATION**

Consists of above system, less speaker enclosures and changer base, for built-in installation.

No. 49A105 Reg. Value \$439.40. Special. **\$278.95**

**DELUXE SPACE-SAVER 8-IN. OR 12-IN. HI-FI SPEAKER ENCLOSURE**

Add richness to any type of decorative scheme. Beautiful furniture finish and styling.

Made to exacting specifications of fine hardwoods in the most luxurious furniture finish. Not only artistically styled but acoustically engineered to assure finest reproduction from 8" or 12" speakers. Full 2 1/2 cu. ft.; provides amazing performance over the entire tonal range from deep, full bass to brilliant highs. Size 23 1/2" high, 17" wide, 12" deep. Completely assembled and finished ready to mount 12" speaker (adaptor ring included for 8" speaker). Wt. 28 lbs. **Choice of Walnut, Maple, Mahogany or Blonde.** No. 40B115. Net Each... **\$29.95**



CHOICE OF 4 FINISHES  
**\$29<sup>95</sup>**



# Electro-Voice

## COMPONENTS FOR TRUE HIGH FIDELITY FULL RANGE SPEAKERS AND STEP-UP KITS



### RADAX COAXIAL SPEAKERS

Utilize the E-V "Radax" principle of two coaxially mounted cones with built-in mechanical crossover. Provides a true two-way speaker system to assure clean, sparkling wide range reproduction. Frequency range 8" 45-13,000 cps, SP12B 45-13,000 cps, SP12 35-13,000 cps, SP15B 35-13,000 cps, SP15 30-3,000 cps. Imp. 16 ohms.

Stock No.	Model	Size Dia.	Depth	Power Watts	Crossover at	Mag. Wt.	Shpg. Wt.	Net Each
34A220	SP8B	8"	4 3/8"	20	6000 cps.	1 1/2 lb.	9 lbs.	\$28.91
31C14	SP12B	12"	6 1/8"	20	4500 cps.	1 1/2 lb.	11 lbs.	34.30
34A221	SP12	12"	7 1/2"	25	4000 cps.	3 lb.	23 lbs.	64.68
34A296	SP15B	15"	7 5/8"	15-20	3500 cps.	1 1/2 lb.	16 lbs.	42.14
34A222	SP15	15"	9"	30	3000 cps.	4 3/4 lb.	29 lbs.	87.22

### TRX INTEGRATED 3-WAY SPEAKERS

Provide all the magic of high fidelity... augmented balanced bass, full bodied mid-range and silky-smooth highs, all combined for an exceptionally well balanced response. Concentric mounting of all speaker elements insures complete full range room coverage. All speakers include adjustable brilliance control to match room acoustics. Frequency range 12TRXB 35-15,000 cps, all others 30-15,000 cps. Imp. 16 ohms.

Stock No.	Model	Size Dia.	Depth	Power Watts	Crossover at	Mag. Wt.	Shpg. Wt.	Net Each
34B194	12TRXB	12"	6 3/8"	20	2000 cps.	1 1/4 lb.	17 lbs.	\$64.68
34A279	12TRX	12"	8 1/8"	25	2000 cps.	3 1/2 lb.	27 lbs.	122.50
34A295	15TRXB	15"	7 5/8"	20	2000 cps.	1 1/4 lb.	17 lbs.	77.42
34A278	15TRX	15"	9 1/8"	30	2000 cps.	5 3/4 lb.	43 lbs.	147.02

### UNIVERSITY'S AMAZING SPHERICON SUPER TWEETER



**FREQUENCY RESPONSE**  
3,000 cps  
TO  
40,000 cps

*University*

**NOW HEAR HIGH NOTES NEVER HEARD FROM OTHER TWEETERS**

entirely new tweeter concept. Provides virtually a linear response of brilliant brilliant highs with true musical quality for superior even to the finest electrostatic tweeter.

Brilliance control permits adjustment to satisfy the most critical listener. Built-in network crosses over at 3000 cps.

Specifications: Power capacity: 30 watts integrated program. Impedance: 8 ohms nominal (may be used with any 4-16 ohm speaker). Design features: domed phenolic diaphragm, conoidal ring loading, spherical diffractor. Crossover: 3000 cps. Sensitivity 93 db at 4 ft. with 1 watt input. Mounting front or rear surface of baffleboard. Dimensions: 4 5/8" dia., 4" depth overall. Complete with built-in network and adjustable brilliance control.

No. 34A170 Net Each.....\$24.45

### NEW SLIM JENSEN 3-P/2 LOUDSPEAKER SYSTEM

15 NEW SUPERSLIM PANEL SPEAKER PRACTICALLY DISAPPEARS IN YOUR LIVING SPACE...ADDS NEW DECOR NOTE...WITH FULL REALISM

**\$139.50**

NO MONEY DOWN

sensitively the most sensational advancement in speaker history. 5 speakers—3-P woofer, 2-range, two tweeters and 10-Dome ultra-tweeter.

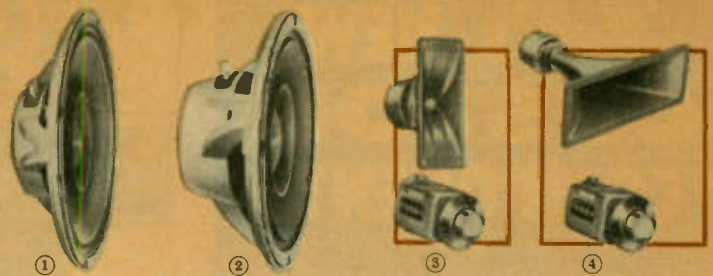
combined into the thinnest speaker system yet. Measures only 3 3/8" depth. Woofer uses molded Polytec plane piston radiator with long 3/4" vent for low distortion reproduction of from 20-600 cycles. 2-range mid-range and ultra-tweeter reproduces beyond audibility. Only 28 5/8" H, 21 1/4" W. Selected walnut veneer in oiled walnut finish with rattan grille and oak trim. Shpg. wt. 36 1/4 lbs.

40B211. **\$139.50**



**5 SPEAKERS**

3-P Woofer, Midrange, Two-Tweeters and Sono-Dome Ultra-Tweeter



### WOLVERINE FULL RANGE SPEAKERS

The most sensational advancement in speaker design yet! Matchless specifications can only be compared to other speakers at over 3 times the cost. Ruggedly constructed with heavy duty diecast frame assures positive centering of all elements. Radax construction—two cones divide the sound for maximum bass reproduction and efficient high frequency performance. Edgewise-wound ribbon voice coils cuts gap size and increases efficiency 18% over conventional design speakers giving the equivalent of 5 extra watts from a typical amplifier. All three models have power handling capacity of 20 watts with peak of 40 watts. Big 2" dia. voice coils of 8 ohms impedance. LS15 has frequency response of 35 to 13,000 cps. LS 12 40-13,000 cps. LS8 55 to 13,000 cps. Thin construction makes these speakers ideal for wall and ceiling mountings or any place where space is restricted.

Stock No.	Model	Size Dia.	Depth	Mechanical Crossover At	Shpg. Wt.	Net Each
34A186	LS 8	8 3/8"	3 1/2"	6000 cps.	5 lbs.	\$17.64
34A185	LS12	12 1/4"	3 1/2"	4500 cps	6 lbs.	19.11
34A233	LS15	15 5/8"	6 3/8"	4500 cps	12 lbs.	24.01

### WOLVERINE STEP-UP KITS

Years of engineering research have gone into the Wolverine line. Outstanding evidence of this is in the mid and high frequency step-up kits. Two new drivers, the TW35 high-frequency unit and the MR10 mid-range feature the Avedon throat design which prevents sound cancellation at highest frequencies and extends the frequency response. A Hoodwin diffraction horn produces realistic reproduction in all parts of listening area. Crossover networks are true crossovers, not just high pass filters, leaving crossover points completely inaudible. Built-in level control. Components sold only in Step-Up kits listed below.

**③ HIGH FREQUENCY STEP 1 KIT**  
Designed to extend the range of Wolverine full-range speakers. Extends high-frequency performance to beyond the range of audibility, for silky precise definition of all string and woodwind instruments. Consists of TW35 VHF driver and CR35 crossover network with built-in level control. Power handling capacity 50 watts. Freq. resp. 3500-18,000 cps. Imp. 8 ohms. TW35 size 5 1/4" x 2" x 2 3/4". Baffle opening 1 3/4" x 4 1/4". CR35 size 3 1/4" x 2 1/2" x 3". Complete with all wiring, mounting hardware and instructions for simple 5-minute installation. Shpg. wt. 4 1/2 lbs. **\$19.60**  
No. 34A187. MFI Kit. Net.

**④ MID-RANGE STEP 2 KIT**  
Can be added to 15" and 12" Wolverine speakers after the HF1 kit has been installed. Completes system into a 3-way system which spreads mid-range sound evenly throughout the room, and smooth peak-free, frequency response. Consists of MR10 treble driver and CR10 crossover network with built-in level control. Power handling capacity 20 watts. Freq. resp. 1000-15,000 cps. MR10 size 4 x 1 1/2 x 9 3/8". Baffle opening 9/2 x 3". CR35 size 3/4 x 2 1/2 x 3". Complete with all wiring, mounting hardware and instructions for simple, 5-minute installation. Shpg. wt. 5 lbs. No. 34A188. **\$24.50**  
MFI Kit. Net.

### FAMOUS JAMES B. LANSING PRECISION LOUDSPEAKERS

High efficiency speakers noted for their crisp clean transient response and remarkable "presence" these JBL precision transducers are used in the finest music installations the world over. All listed have 16 ohm voice coil.



Stock No.	Model	Size Dia.	Depth	Power Watts	V. C. Dia.	Shpg. Wt.	Net Each
34C147	D130	15 1/8"	5 3/8"	25	4"	23 lbs.	\$96.00
33A183	D123	12 1/8"	3 3/8"	20	3"	12 lbs.	69.00
34A260	D216	8 1/4"	2 1/8"	12	2"	8 lbs.	33.60

### Norelco T-7 LOUDSPEAKERS

**WITH THE NEW TICONAL VII VOICE COIL MAGNETS**  
30% MORE POWER THAN ALNICO



Designed to match the quality requirements of the discriminating music lover at a surprisingly moderate price. Voice coil magnets of Ticonal-7 steel, the most powerful of modern magnet alloys, for maximum efficiency and damping. Dual cones provide wide frequency response. Features constant impedance resulting in an extremely straight response curve. Longer effective air-gaps and extra high flux density provide exceptional transient response and eliminate ringing and overshoot.

Stock No.	Model	Size	Continuous Power	Flux Density Gauss	Freq. Resp.	Net Each
34A117	AD5277M	12"	20 8	11,000	35-18,000 cps	\$72.50
34A119	AD4277M	12"	20 8	8,000	35-18,000 cps	39.00
34A120	AD4877M	8"	6 4-6	13,000	50-20,000 cps	26.00
34A121	AD3800M	8"	6 4-6	11,000	75-19,000 cps	9.90



# INTRODUCING B-A's NEW CUSTOM COMPONENTS

MADE IN THE U.S.A.

## 15-DAY TRIAL WITH FULL MONEY-BACK GUARANTEE

Less only transportation charges



Try our components in your own home, where they are to be used . . . your ears are the best judge of what sounds best to you.

None finer. Compare the specs . . . compare the cost . . . the design of distinction. All are made in the United States with American made parts. Engineered with every desirable control and the most advanced circuitry. Features oversized transformers for full high fidelity range and distortionless reproduction . . . constant duty power transformers resulting in top stereophonic and monophonic reproduction. Many additional expensive quality-features have been included in every component in the entire series. Tuners, and tuner amplifier combinations feature wide-band IF circuits. Maximum sensitivity for flawless multiplex performance. Lock-in AFC, built-in antenna, and multiplex output for addition of FM multiplex adaptor when desired. All Amplifiers compliment the AM-FM Tuner in appearance.

**GUARANTEED ONE FULL  
YEAR AGAINST DEFECTS  
IN MATERIALS AND  
WORKMANSHIP**

### B-A CUSTOM MULTIPLEX ADAPTOR FOR STEREO FM

DESIGNED TO MOUNT ON CHASSIS OF B-A  
CUSTOM TUNER AND TUNER AMPLIFIER  
COMBINATIONS LISTED ON THESE TWO  
FACING PAGES

Convert any of the tuners listed above to stereo FM by the addition of this high quality, wide-band multiplex adaptor. Custom fits into chassis, receives power from the tuner section. Attractive satin chrome panel with charcoal gray housing. Size 5" W. x 4 1/2" D. x 7" L. Shpg. wt. 7 lbs.

No. 33A117. Model BA-MXLP  
(Less Power Supply). Special Net. . . . \$39.95

COMPARE AT OVER  
\$200.00

**\$119<sup>95</sup>**  
Less  
Cover

FREQUENCY  
RESPONSE  
20-20,000 CPS

MULTIPLEX INPUT  
FOR ADAPTOR

SATIN CHROME  
METAL KNOBS

EDGE LIGHTED  
SLIDE RULE  
DIAL  
MAGIC BAR  
TUNING  
INDICATOR



MODEL B-A 501

SATIN CHROME PANEL

B-A breaks the price barrier! Compare the specifications . . . compare the quality . . . compare the design.

You'd expect to pay over \$200.00 but B-A again proves its purchasing "know-how" to bring down the price. Yes, only \$119.95 at B-A.

24 watts of sustained stereo power combined with multiplexible FM-AM Tuner provides in one compact unit an unsurpassable control center. The perfect heart for even the finest stereophonic music system. Every needed feature has been included to give you the best from tape, records or radio.

Nine (9) front panel controls assures you of being able to compensate any musical selection to meet your critical listening requirements. Space provided on chassis for custom mounting of multiplex adaptor unit (listed below).

Specifications: Amplifier: sustained power output 24 watts. RMS (12 watt each channel). Music Power: 14 watts each channel. Frequency re-

## B-A CUSTOM FM-AM TUNER & 24 WATT STEREO AMPLIFIER

ALL IN ONE COMPACT UNIT

- FM-AM TUNER ● POWER AMPLIFIER
- PREAMPLIFIER

sponse: +1 db 20 to 20,000 cps at 1 watt. Power bandwidth: 30 to 20,000 cps at half power with 3% harmonic distortion. Harmonic distortion: 1 (1000 cps). Intermodulation distortion: 2% at 10 watts. Damping factor 4.5. Controls (9) 1 flywheel tuning; 2-selector, 3-loudness dual control-balance; 4-treble (dual control channel A channel B); 5-bass dual control channel A, channel B. Slide switches multiplex, AFC, power, stereo.

Tuner specs: FM 2 uv for 20 db or 40 db -3 db quieting; AM 5 mv.

Antenna: FM 300 ohm; AM built-in ferrite rod. Hum & Noise: FM 50 db below 100% mod. AM 50 db below 100% mod. Size 5" H. x 15" x 15" Wt. 22 lbs. Made in U.S.A. Finish: satin chrome panel with satin chrome metal knobs.

No. 33A134. . . . \$119.95

Net. . . . No. 33A135. Charcoal Grey Cover for above. . . . \$6.50

Net. . . .

CHECK FEATURES AGAINST  
AMPLIFIERS COSTING  
UP TO \$130.00

**\$49<sup>95</sup>**  
Less  
Cover

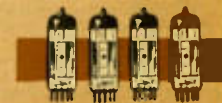
### B-A CUSTOM 24-WATT STEREO AMPLIFIER

- Brushed Chrome Metal Knobs and Panel
- Beautifully Designed Charcoal Grey Cover

FREQUENCY RESPONSE  
20-20,000 CPS



MODEL B-A 245



POWERFUL PUSH-PULL  
EL84's IN OUTPUT  
12 WATTS PER CHANNEL



SEPARATE BASS AND  
TREBLE CONTROL FOR  
EACH CHANNEL

Matchless performance and styling at a price only B-A can offer.

B-A custom 245. . . all new stereo high fidelity amplifier. Features engineering design and quality of construction worthy of use in the finest stereophonic high fidelity music system.

Versatility of controls assures matchless performance from all program sources, whether records, tape or radio. Preamplifier properly equalized for NARTB tape permits feeding tape head directly to amplifier. Phono inputs (2) provided for magnetic, crystal or ceramic cartridges.

Satin-chrome panel with satin-chrome knobs add the mark of elegance found only in the highest price amplifiers. Provides 24 watts of sustained stereophonic power with 14 watts of music power from each channel.

Specifications: Sustained Power Output . . . 24 watts RMS (12 watts each channel). Music Power: 14 watts each channel. Frequency response: ± 1 db 20 to 20,000 cps at one watt. Power bandwidth: 30 to 20,000 cps at half power with 3%

harmonic distortion. Harmonic distortion .5 (10 cps). Intermodulation distortion: 2% at 10 watt

Damping factor 4.5. Controls (8) 1-selector-a tuner, NARTB tape, RIAA phono, crystal phono 2-function-stereo, monaural phono, channel channel B; 3-channel balance, 4-loudness; 5-b

-12 db to +8 db @ 50 cps; 6-treble -12 db +8 db @ 10,000 cps; 7-loudness contour off (slide switch); 8-power off-on (slide switch)

put sensitivity: aux., tuner-.7 volt; mag. pho .0055 volt; tape head .0075 volt and crystal p no .35 volt for rated output (1000 cps). Outpu

4, 8, 16 ohms and high impedance for tape recorder. Hum and noise 72 db tuner input

52 db phono input below rated output. Tubes 4-6EU7, 4-EL84/6BQ5, EZ81/6CA4.

Fused line with 2 AC outlets for 110-120 V. cps AC operation. Size 14" W. x 4 1/2" H. x 9"

No. 33A125. . . . \$49.95

Model BA245. Net Each. . . .

No. 33A126. Charcoal Grey cover for above. . . .

Net Each. . . .



## B-A CUSTOM FM-AM HIGH FIDELITY TUNER

MODEL  
B-A 500

**\$59<sup>95</sup>**

LESS COVER

COMPARE WITH OTHERS AT OVER **\$99.00**

**NO MONEY DOWN ON EASY TERMS**

Automatic Frequency Control for Drift-Free Reception.



MAGIC BAR TUNING INDICATOR

HANDSOME MODERNISTIC STYLING

**WITH MULTIPLEX OUTPUT JACK AND BUILT-IN ANTENNA**

Rich elegant styling, magnificent performance are blended into this superb quality tuner to provide optimum listening pleasure for even the most critical ear.

Carefully designed and brilliantly engineered for outstanding range, sensitivity and drift-free operation. Offers many features found only in much higher priced tuners. . . another perfect example of B-A purchasing "know-how" for providing greater value for the dollar.

Smooth, effortless flywheel tuning, "Magic Bar" tuning indicator for precise, visual "on station" tuning, AFC for lock-in tuning of FM stations . . . these are just a few of the many fine features built into this unit. FM section has an extra stage of RF amplification for use in extreme fringe areas. Space provided on chassis for custom mounting of multiplex adaptor (listed on opposite page) for stereo FM broadcasts.

**Specifications:** FM sensitivity 2 microvolts for 20 db quieting, 5 microvolts for AM; frequency response 20-20,000 cps  $\pm$  1 db; distortion 1% harmonic, 2% IM; hum and noise 60 db below 100% mod. for FM; 50 db for AM; slide switches for AFC, multiplex, power.

Size 4 $\frac{3}{4}$ " x 13 $\frac{3}{4}$ " x 9 $\frac{1}{4}$ ". Shpg. wt. 12 lbs. Finish, satin-chrome with satin-chrome knobs.

No. 33A132.

Model BA-500 AM-FM Tuner.

Special Net **\$59.95**

No. 33A133. Charcoal Gray Cover for above.

Special Net \$4.95

## B-A CUSTOM 502 FM-AM TUNER AND 80-WATT STEREO AMPLIFIER

**33 TUBE PERFORMANCE**

- Magic bar tuning indicator for pinpoint FM and AM station tuning.
- 19 tubes, 4 diodes, 5 silicon rectifiers.
- Full array of controls.
- Edge-lighted dial.
- Unconditional One Year Guarantee.

**SATIN CHROME KNOBS AND SATIN CHROME PANEL**

FLY WHEEL TUNING

**MULTIPLEX ADAPTABLE**

Space provided on chassis, just slip unit on opposite page into place

COMPARE WITH UNITS SELLING FOR OVER **\$400.00!**

**\$199<sup>95</sup>**

LESS COVER

**NO MONEY DOWN**



Big power . . . studio quality . . . elegant styling at B-A's low unbeatable \$199.95 price. Compare with other units at twice the price.

80 watts stereo music power combined with an extremely sensitive AM-FM tuner provides the basis for the finest home music system. Every conceivable feature has been included for unlimited flexibility and the finest reproduction possible. Stereo or monaural from any source includes FM-AM, FM multiplex, phono records or tape. Super sensitive tuner features sub-chassis construction, two wide band IF and two limiter stages. Uses advanced circuitry with ratio detector, cascade RF stage, law noise triode mixer and AFC for locked-in FM reception. Magic bar tuning indicator assures positive on station tuning. Rapid station change made easy with big flywheel tuning. 14 controls provides every desired adjustment for the most critical listener. Center channel output permits direct speaker connection. Space age engineering gives amazing 33 tube performance from 19 tubes, 4 diodes, and 5 low heat silicon rectifiers.

**Specifications:** IHFM Music Power Output: 80 watt (40 watts each channel). Frequency response:  $\pm$  .5 db 20 to 20,000 cps at 1 watt. Power bandwidth: 30 to 20,000 cps at half power with 2% harmonic

distortion or less. Harmonic distortion .6% (1000 cps), intermodulation distortion 2% at rated output. **Damping factor:** 8. **Input sensitivity:** FM 1 microvolt (2 microvolt IHFM), AM 3 microvolt; Aux; Mtplx -.4 volts; mag. phono -.004 volt and tape head -.0045 volt for rated output at 1000 cps. **Outputs:** 4, 8, 16 ohm, tape recorder (each channel) FM multiplex and center channel. **Hum & noise:** all inputs min. vol. 75 db phono, max. vol. 50 db below rated output.

**Controls:** (1) AM tuning, FM tuning; (2) selector-Aux, FM Mtplx, FM-AM tape head, phono; (3) function-stereo, mon., phono, FM mon., AM mon.; (4) channel balance; (5) loudness; (6) bass; (7) treble with power off-on. **Slide switches:** (1) low filter, (2) hi-filter, (3) AFC, (4) contour 1, (5) contour 2.

**Tuner bandwidth:** FM 650 KC, AM 10 KC. **Antenna:** FM 300 ohm, AM adjustable ferrite rod. Tubes: 2-6DT8, 2-6EAB, 6CB6A, 2-6BA6, 6BE6, 2-6FG6, 5-6EU7, 4-EL84/6BQ5, 4 diodes, 5 silicon rectifiers. **Other features:** fused, AC outlet. Size 16" W, 6" H, 15" D. Shpg. wt. 40 lbs.

No. 33A115. Net **\$199.95**

No. 33A116. Charcoal Grey Cover for above.

Net \$8.95

## B-A CUSTOM 40-WATT STEREO AMPLIFIER MODEL B-A 40S

**HIGHEST QUALITY AT LOWEST COST**

**FREQUENCY RESPONSE 20-20,000 CPS**

- Beautiful Brushed Chrome Panel
- Matching Metal Knobs
- Most Advanced Circuitry



**NO MONEY DOWN ON EASY TERMS**

COMPARE WITH OTHERS AT OVER **\$100.00**

**\$74<sup>95</sup>**

LESS COVER

Beautiful design and quality of construction far peer to amplifiers selling for considerably more. A's purchasing "know-how" brings you this exclusive amplifier with all the controls and basic requirements to provide the finest music reproduction regardless of program source. Not only outstanding in appearance but with specifications second to none. Read and compare.

**Specifications:** Music Power 40 watt stereo IHFM (20 watts per channel). Frequency response  $\pm$  .5 db 20 to 20,000 cps. Power bandwidth: 30-20,000

cps at half power with 2% distortion. **Harmonic distortion** less than 1% at 1000 cps. **IMD** 2% at 15 watts. **Damping factor** 8. **Controls** (11): 1-selector; aux, tuner, NARTB tape, RIAA phono, crystal phono; 2-function; stereo, monaural, phono, channel A, channel B; 3-loudness; 4-bass -15 db to flat to +15 db at 50 cps; 5-treble -15 db to flat to +15 db at 10,000 cps; 6-channel balance; **Slide switches:** 7-lo-filter; 8-hi-filter; 9-loudness contour 1; 10-loudness contour 2, 11-power on-off. **Input sensitivity:** Aux, tuner -.4 volt, mag. phono

-.004 volt, tape head -.0045, crystal phono -.25 volt for rated output 1000 cps. **Outputs** 4, 8, 16 ohms and high impedance for tape recorder. **Hum and noise** 75 db tuner, input and 50 db phono input. **Tubes** (10): 5-12AX7, 4-6BQ5, 1-EZ81. Size 4 $\frac{3}{4}$ " H, 13 $\frac{3}{4}$ " W, 9 $\frac{1}{4}$ " D. Shpg. wt. 20 lbs. Beautiful satin-chrome panel with matching metal knobs. No. 33A127.

Net **\$74.95**

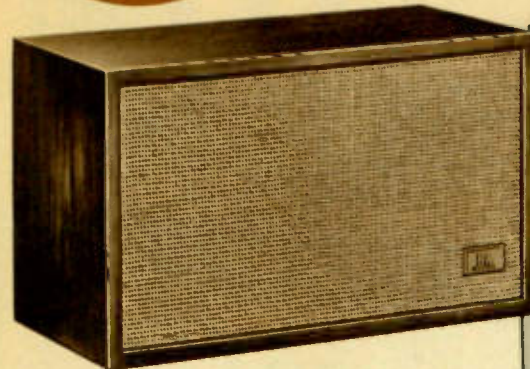
No. 33A131. Charcoal Grey Cover for above.

Net \$4.95



**\$84.50**  
VALUE  
**\$69<sup>50</sup>**  
EACH  
PAIR FOR  
**\$129.50**

**B-A's "CUSTOM"**  
ULTRA-COMPACT  
**HIGH FIDELITY**  
**SPEAKER SYSTEM**  
PRICED CONSIDERABLY BELOW ANY  
COMPETITIVE SYSTEM



- DESIGNED FOR STEREO
- RICH Contemporary STYLING
- NO MONEY DOWN ON EASY TERMS

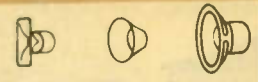
Made for B-A by Electro-Voice, the leading high fidelity speaker manufacturer, this new low-resonance speaker system gives concert hall realism to every program source, with unbelievably low bass response, brilliantly "alive" mid-range, and sparkling highs. . . . all this built-into a compact, beautifully styled cabinet, less than 2.5 cubic feet in size! Bass speaker is a specially designed high-compliance, low resonance 12" woofer with 1 lb. 6 oz. ceramic magnet, long-throw voice coil for clean bass response below 15 cps. 8-inch mid-high range speaker is mounted in totally isolated acoustic chamber, preventing distorting interaction with the woofer. Built-in crossover between speakers set at 200 cycles. EIA sensitivity rating 43 db; power handling capacity 70 watts. Conservatively rated frequency response 14-13,000 cps absolutely flat, with usable response beyond the range of audibility. Impedance 8 ohms. Cabinet size 14" H, 25" W, 12" D. Shpg. wt. 29 lbs. Beautiful hand rubbed walnut veneer cabinet.  
No. 40B212. \$84.50 Value.  
Two-Way Speaker System Complete, Special Net. **\$69.50**

**B-A FABULOUS 3-WAY**  
**HIGH FIDELITY SPEAKER**

**\$65.00**  
VALUE

**\$44<sup>50</sup>**

COMPARE THE FEATURES...  
COMPARE THE PRICE...  
**BEST BUY ANYWHERE!**



Integrated 3-Way system, combines Super Sonax, Radax Propagator, and large bass cone in one compact concentric assembly.



EXCITING  
NEW HI-FI  
LISTENING  
EXPERIENCE

High freq.  
level control

**SPECIALLY PRICED TO SAVE YOU \$\$\$!**

Custom engineered to B-A's exacting specifications by Electro-Voice, a leader in the field of high fidelity sound. Combines in a single compact speaker the most desired features of the finest separate three-way systems. Exclusive 3-in-1 concentric design incorporates the proven advantages of E-V's famous radax and super sonax principles for even, smooth, full room coverage at all audible ranges. Phenomenal bass response, full-bodied mid-range and silky smooth upper octaves are reproduced with unusually pleasing musical balance. Masking effects and imposed distortion are eliminated, you hear only what you should hear . . . and you hear it far better. Little wonder B-A's audio experts, men who know their products, are giving this speaker their very highest recommendation. Dollar for dollar you can't beat this B-A super value. Your complete satisfaction guaranteed.  
Specifications: Handles 20 watts of program material with peaks to 40 watts. Frequency response 35 to 18,000 cps. EIA sensitivity rating 46 db. Free-space cone resonance 40-50 cps, crossover network with full 12 db-per-octave slope minimizes distortion. Mechanical crossover: 2,000 cps. Electrical crossover 3,500 cps. Magnet wt. 1 1/4 lbs. Includes adjustable high-level brilliance control for matching to room acoustics and compensating for high-frequency absorptive effects of rugs and draperies. Edge-wise wound aluminum voice coil design affords 18% more efficiency and consequent damping of transient distortion. Size, 12 1/4" dia., 6" deep. Requires 10 3/4" baffle opening. wt. 14 lbs. No. 34A189. **\$44.50** For **\$79.50**  
Special Each



**\$29<sup>75</sup>**

**NEW JENSEN X-10 ULTRA COMPACT 2-WAY SYSTEM**  
IDEAL FOR COMPACT HI-FI STEREO SYSTEM . . . EXTENSION SPEAKERS . . . ETC.

A miniature speaker system that provides the most amazing "big sound" yet. Bass and treble response far beyond expectation, comparable only to larger expensive units. Heart of X-10 is special miniature woofer precisely matched to its mass-loaded diminutive enclosure. Woofer uses powerful 10 oz. Synotax-6 magnet. High frequency range is handled by a 3" tweeter that carries response out to 14,000 cycles. Volume is adjustable

from small control on front panel. Perfect for any high fidelity system, mono or stereo or as an extension speaker suitable for use even with the most expensive system. In beautiful oiled walnut. May be used with output impedances of 4, 8, or 16 ohms. Power rating 6 watts. Adequate room sound with one watt to speaker. Size 7 1/4" H, 13" W, 4 5/8" D. Shpg. wt. 7 1/4 lbs. **\$29.75**  
No. 34C231. Net Each

**STEREO FM IS HERE!**

Now you can enjoy the magic of stereo sound on wide range FM by the addition of an one of these multiplex adaptors to your present FM tuner and stereo speaker system



**CROSBY**  
**MX101**

**ONLY**  
**\$69<sup>95</sup>**  
No Money  
Down



**PILOT 200**

**ONLY**  
**\$79<sup>50</sup>**  
No Money  
Down

**H.M. SCOTT**  
**335**

**ONLY**  
**\$99<sup>95</sup>**  
No Money  
Down



**CROSBY MULTIPLEX ADAPTOR**

Universal model designed for all FM tuners with a multiplex output jack, engineered by the company who pioneered the stereo multiplex system. Self-powered, self-contained unit has exclusive dimension control which varies stereo separation from mono to expanded stereo. Selector switch for stereo or stereo filter, push-pull power switch allows turning off or on without disturbing control settings. Separation is at least 20 db over entire audio range. Frequency response 30 to 15,000 cps on both channels with full separation. Main channel adjustment on chassis permits proper separation regardless of transmitter standards used by individual stations. Noise filter enables satisfactory stereo reception in fringe areas where stereo separation would normally be masked. Uses 2 cathode follower outputs, special low-loss input cable supplied. Tubes used 2-12AU7, 1-6C4, 1-EZ80, 2-1N541 matched diodes. Power consumption 25 watts. Size 5 1/4" W, 4 1/2" H, 9" D. **\$69.95**  
No. 30A289. Model MX-101. Net Each

**PILOT MODEL 200**  
**AUTOMATIC MULTIPLEX ADAPTOR**

No tools, no controls, no switches, no problems . . . with the new Automatic Pilot Multiplex. When the FM station broadcasts stereo FM, an indicator light goes on, and the adaptor automatically switches to stereo reception. All connections made externally. Completely self-powered. Measures 5" H, 3" W, 14" L. Contains 3 tubes plus rectifier. Housed in an attractive black and brass enclosure designed to match other Pilot components. **\$79.50**  
No. 31A65. Model 200. Net Each

**PILOT MODEL 100.** Semi-automatic FM multiplexer has only one operational control—a simple slide switch to put the multiplexer into or out of the circuit. All connections are made externally. Contains 2 tubes and 1 rectifier. Dimensions 4 1/2" H, 5" W, 9" L. in handsome black and brass styling. **\$49.50**  
No. 31A66. Model 100. Net Each

**H.M. SCOTT MODEL 335**  
**WIDE-BAND MULTIPLEX ADAPTOR**

Designed specifically for use with all Scott tuners regardless of age or model, this new model permits reception of both main and multiplex channels with lower distortion and greater fidelity than is possible with any other adaptor, even in weak signal areas.

Front panel controls include level control, master selector for off, mono, sub-channel noise filter, a stereo. Slide switches for adaptor in or out circuit, stereo noise filter in-out. Special circuit permits high quality tape recording of multiplex stereo programs. Self-powered, self-contained unit with all connecting cables supplied. Frequency response is flat out to 75 KC. Perfectly matches impedance output of all Scott tuners. Cabinet styling matches all Scott tuners. Size of cabinet 7" 5/4" H, 13" D. **\$99.95**  
No. 31A67. Model 335. Net Each



# NEW BSR MONARCH UA-12 RECORD CHANGER

NATIONALLY ADVERTISED IN LIFE, LOOK, POST, THIS WEEK

PRECISION CRAFTED IN GREAT BRITAIN

MFG.  
LIST \$49.95  
**\$29<sup>95</sup>**



### COMPARE THE FEATURES

- Simple easy-to-operate slide speed selector and operational controls.

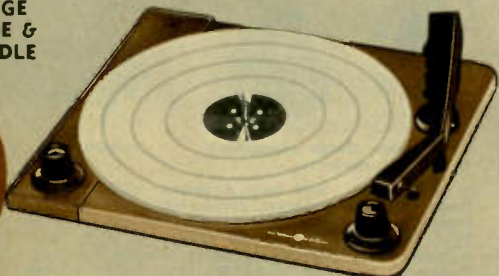
New deluxe model of the World's best selling record changer. Features engineering tested quality second to none... proved "jamproof" in over 550,000 consecutive record changing cycles! Light, skip-free tracking... easily adjustable from 2½ grams to meet any cartridge compliance requirement. Heavy concentrically weighted turntable provides less than .1% flutter, less than .35% wow as measured by Goumont-Kalee meter: Turntable top has non-slip rubber mat. Shielded motor is rumble-free, precision balanced with full rubber suspension, minimizing vibration. Equipped with famous BSR "full-fi" flip-over stereo cartridge for finest quality reproduction from 4 speed monaural and stereo records 78, 45, 33, and 16 RPM. Automatically plays ten 12", 10" or 7". Records same speed intermixed. Operates on 115 V. 60 cycle AC. Size 13½ x 11¼ W x 7½ H. Shpg. wt. 11 lbs. List \$49.95.

- No. 31A210 Net Each..... **\$29.95**
- No. 31A211. 45 RPM Adaptor Spindle. List \$3.75. Net Each..... \$2.25
- No. 31A212. Walnut Mounting Base for above changer. Net Each..... \$3.95
- No. 31A213. Mounting Board for above changer. Net Each..... \$1.50

## PROFESSIONAL TYPE HIGH FIDELITY STEREO TURNTABLE

WITH WIDE-RANGE STEREO CARTRIDGE & DIAMOND LP NEEDLE

MFG.  
LIST \$35.00  
**\$27<sup>95</sup>**



At last, a quality-built professional type manual turntable designed for discriminating listeners, but at a real low down budget price. Will add immeasurable listening pleasure from all records—monaural and stereo—with performance and precision operation as only expected from fine turntables. Just look at the quality features and distinctive design.

Massive 11" turntable driven by quiet, constant, true speed motor. Plays all 4 speeds—78, 33½, 45 and 16½ RPM. Feather-light, extra long dynamically balanced tone arm with finger-lift for easier set down. Wide range turnover cartridge with diamond needle for monaural and stereo LP's; sapphire needle for 78 RPM. Equipped with separate 45 RPM insert spindle.

Handsome Fawn Gold and Brown finish. Size 6" H. x 13¼" W. x 12" D. Requires 3" above and 2½" below motor board. Operates on 110-120 V. 60 cy. AC. Shpg. wt. 9 lbs.

- No. 30A52. Model 1580. Net Each..... **\$27.95**
- No. 33B13. Precut Mounting Board for above. Net..... **\$1.48**
- No. 31A280. Precut Mounting Base for above. Net..... **\$3.87**

### CHANGER ACCESSORIES



- ① **CHANGER CARRYING CASE**  
Specially cut to accommodate any make record Changer. Made of heavy plywood with a smart leatherette cover. Size: 16¼x14½x10¾" high, with 2" above motor board. Shpg. wt. 11 lbs. No. 40A130. Net Each..... **\$12.35**

- ② **PRECUT MOUNTING BOARDS**  
Finished 3-ply veneer board precut & ready for use in any cabinet or tom built-ins. VM Model Series 1500. Size 15¾ x 5¾ x 3½". No. 33B13. Each..... **\$1.46**

- ③ **VM 45 RPM SPINDLE**  
For all VM changers. Eliminates need of record adaptors. Mfg. List \$2.25. No. 22B132. Net Each..... **\$1.30**

- ④ **SLIDE DRAWER HARDWARE**  
Easy mounting of radio chassis, record changers, recorders, etc., in custom cabinets, record compartments of consoles, etc. Made of ½" aluminum. Overall length 13". Travel lgth. 9". Load capacity 30 lbs. Silencer spring eliminates vibration. No. 20A918. Pair..... **\$1.49**
- ⑤ **Heavy-duty type.** Made of 16 gauge steel. Load capacity 50 lbs. Otherwise as above. No. 20A934. Pair..... **\$2.09**

## the Voice of Music



1572 On Base



1571

### STERE-O-MATIC 4-SPEED RECORD CHANGERS

PLAYS NEW STEREPHONIC RECORDS PLUS ALL STANDARD (MONAURAL) RECORDS

Outstanding new changers incorporating the latest advances in record player design for providing finest reproduction of all records, monaural and stereo. Features new 11" massive transcription turntable, micro precision turntable bearing system with genuine Teflon thrust bearing. Model 1571 is equipped with ceramic cartridge and diamond needle. Both models have full provision for stereo hookup including dual phono leads. Also easily installed in standard (monaural) systems.

Completely automatic operation of all records—33½, 45, 78 and the "Talking Book" 16 RPM; all sizes—7", 10" and 12". Records may also be played manually if desired. New automatic manual-play feature returns tone arm to rest post automatically after playing single record.

Record Capacity—Twelve 10", ten 12" or fourteen 7". Will intermix ten 10" and 12" records of the same speed. Automatically shuts-off after last record has played—tone arm returns to rest. Positive record protection—records are dropped flat, air cushioned to rubber matted turntable.

Easy to operate. All controls are easily accessible. Completely jamproof—tone arm can be held at any time during operation without damaging mechanism. New Easy-Lift support arm offers exclusive front loading convenience. New Direct-Drive motor assures constant speed at all times. New "Siesta-Matic" neutral speed position to help prevent flats on drive wheel. For 110-120 V. 60 AC. Includes AC and phono leads with plugs. Average shpg. wt. 11 lbs.

Model 1572 has 4-pole motor and is equipped with plug-in heads for accepting GE and other magnetic stereo or monaural cartridges. Models 1571 and 1572 designed for built-ins and replacement. Require—12¾" x 13¾" x 8¾" H.

Stk. No.	Model	Cartridge, Needle	Mfg. List	Net Each
30A44	1571	Ceramic (Diamond)	\$50.00	\$40.00
30A45	1572	None (Plug-In Head Only)	50.00	40.00

Attractive High Impact Styrene Base for Models 1571 and 1572 changers above. Shpg. wt. 1 lb. No. 30A54. Net Each..... **\$4.75**

### VM 4-SPEED STEREO RECORD CHANGER

NOW AT A NEW LOW PRICE EVERYONE CAN AFFORD!

SPECIAL  
**\$27<sup>95</sup>**



### LATEST MODEL... PLAYS ALL RECORDS, MONAURAL & STEREO

America's fastest selling changer now at tremendous \$\$\$ savings. It's the kind of value you just can't afford to pass up. Your complete satisfaction guaranteed. It's the very same automatic changer as used in scores of top name hi-fi and stereo consoles and phonographs. Perfect for replacement of old worn out changers, for custom built-in music systems, for building your own record player, etc.

Completely automatic operation in playing all records, all speeds (16, 33, 45 and 78 RPM), all sizes (7, 10 and 12"). Intermixes 10 and 12" records of the same speed. Automatically shuts-off after last record. Direct-drive motor assures constant speed at all times. Positive record protection assured by flat air-cushion drop of records to rubber matted turntable. Lightweight, jam-proof tone arm complete with stereo turnover cartridge with long-life dual sapphire needles. Dimensions: 12¾" x 13¾" x 4½" above and 3" below motor board. For 110-120 V. 60 cy. AC. Fully guaranteed. Shpg. wt. 11 lbs. No. 31A283..... **\$27.95**

- No. 31A280. Precut Mounting Base..... **\$3.87**

### HIGH FIDELITY MUSIC MINDER

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 "Music Minder." Special built-in device automatically shuts-off amplifier after last record has played. (Note: Changer must have automatic shut-off feature.) List \$11.95. 33C31. For Garrard & Thorens. Choice 33C32. For VM, Webcor, BSR, Etc. Net Each. **\$7.20**





# NEW LESA CD2/21 STEREO RECORD CHANGER

**\$44<sup>50</sup>**



**B-A'S BIG BONUS OFFER**

- Your Choice of Cartridge
- GE VR-1000-7 (\$24.45 Value)
  - Pickering 380C (\$29.95 Value)
  - Shure M7D (\$23.52 Value)

FOR ONLY 1c with LESA Changer

- Automatic Intermix
- Absolutely Jam-proof
- Balanced tone arm
- Constant speed change cycle
- Heavy duty 4-pole motor

Truly a remarkable feat of engineering and workmanship. Every single part of this changer is of the finest quality, manufactured to the most exacting tolerances by the largest electronic manufacturer in Italy. This amazing low price has been accomplished through simplification of the operating mechanisms, not by reducing the quality of the unit.

Fully automatic, it will intermix 7, 10 and 12" records at all four speeds. Works through change cycle in only six seconds regardless of the turntable speed. After last record is played and the arm returns to rest the motor shuts off and it retracts its own idler.

Tone arm is spring-counterbalanced, fully adjustable from less than zero to well over 15 grams.

Rumble level is -32 db, in accordance with NARTB standards, only 3 db below the standard for broadcast reproducing turntables. Two-tone neutral finish. Size 13 1/2 x 11 1/2" - 4" above, 3 3/4" below. Shpg. wt. 17 lbs.

No. 31A76. Less Cartridge & Base. Net.....	<b>\$44.50</b>
Lesca Changer with Pickering 380-C Stereo Cartridge	<b>\$44.51</b>
No. 31A77. Net.....	<b>\$44.51</b>
Lesca Changer with GE VR-1000-7 Stereo Cartridge	<b>\$44.51</b>
No. 31A78. Net.....	<b>\$44.51</b>
Lesca Changer with Shure M7D Stereo Cartridge	<b>\$44.51</b>
No. 31A79. Net.....	<b>\$44.51</b>
No. 31A57	
Custom Designed Base in Walnut, Mahogany or Blond. Specify finish. Net.....	\$4.75
No. 31A58. Precut Mounting Board. Net.....	\$2.00
No. 31A59. Automatic 45 RPM Spindle. Net.....	\$3.75

## GARRARD MODEL T/MKII 4-SPEED MANUAL PLAYER

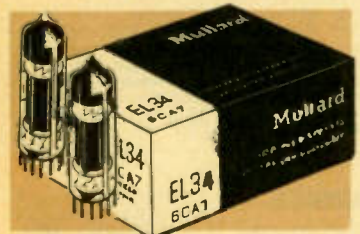


True Garrard precision quality throughout for manually playing all records, monaural or stereo, 7", 10" or 12" at 16, 33, 45 or 78 RPM. Features unusually smooth, quiet 4-pole shaded motor; belt-free true-turret drive; heavy precision flywheel action turntable with rubber traction mat; automatic start and stop—move tone arm to start, shuts off at end of record, stylus pressure adjustment.

Wired for monaural or stereo installation. Compact, dimensions: 14 3/4" W, 12 1/2" D, 3" above and 2 1/8" below motor board. Includes 6 ft. UL AC cord, two audio cables terminating into pin jacks, and 45 RPM adaptor. Shpg. wt. 15 lbs.

No. 30A143. Model T/MKII. Net Each..... **\$32.50**  
For other Garrard products including Mtg. Board and Base for T/MKII see page 2.

## MULLARD LABORATORY BALANCED MATCHED PAIR POWER OUTPUT TUBES



MFG. LIST \$5.35 AS LOW AS

**\$2.73**  
6AQ5 PAIR

- Provides optimum performance of high fidelity push-pull amplifiers.
- Eliminates distortion, hum and power loss caused by unbalanced tubes.

Premium quality tubes in matched pairs which have undergone extensive laboratory test procedures to assure true balanced audio reproduction. Eliminates distortion, audio hum, and loss of power caused by unbalanced output tubes. Greatly improves performance of any console, component system, tape recorder, phonograph, etc. using push-pull amplifiers.

Stk. No.	Mullard Type	EIA Type	List Pair	Net Pair
41A105	EL34	6CA7	\$13.45	\$6.86
41A106	EL34	6CA7	13.90	6.82
41A107	EL84	6BQ5	5.55	2.84
41A108	EL86	6CW5	6.50	3.32
41A109	EL90	6AQ5	5.35	2.73

# BOGEN PRESTO B-61 TURNTABLE

**\$59<sup>95</sup>**



- Automatic cueing device.
- Integrated tone arm.
- Variable speed from 29 to 86 RPM.
- Heavy duty 4-pole motor.

A revolutionary approach to turntable design, the B61 offers new unusual features not found on any other turntable. An automatic cueing device raises or lowers the tone arm to any spot on the record by the touch of a knob, eliminating damage to the record or the stylus. Dynamically balanced tone arm is the Bogen PA-1. Speed selector is infinitely variable from 29 to 86 RPM, with click stops at 16 2/3, 33 1/3, 45 and 78 RPM. Ideal for square dancing, swimming, calisthenics, language study, or many other uses where change of pitch or record speed is desirable. Full 12" turntable is 7 3/4 lb machined zinc alloy casting with heavy rubber mat, driven by heavy duty 4-pole motor. Wow and flutter less than 0.2%, rumble 51 db below average recording level. Tone arm has plug-in head for stereo or monaural cartridges. Chassis deck size 15 1/4 x 13 1/4", 2 1/4" below deck. For 115 V. 60 cycles AC. Shpg. wt. 18 1/2 lbs.

No. 32A58. Model B61 (Less Cartridge). Net Each..... **\$59.95**  
No. 32A60. Type PB6. Walnut finish wood base for B61. Net Each..... \$5.25  
No. 22A361. Type H4. Extra Plug-In Head, aluminum for B61. Net Ea. \$4.00

## BOGEN PRESTO B60 TURNTABLE

Economy model of the B61. The B60 is exactly the same in every way, with a lighter weight turntable (3 3/4 lbs.) made of formed steel. Wow and flutter less than 0.25%, rumble 45 db below average recording level. Shpg wt. 13 1/2 lbs.

No. 32C57. Model B60. Net Each..... **\$49.95**

## KOSS STEREOPHONES



- Complete stereo separation.
- Brilliant realism.

Personalized, private listening.

① Model SP3. Add new dramatic realism to your recorded music. With these specially designed, comfortable phones, you hear startling new sound from your favorite records. This is accomplished with extremely sensitive 3 1/2" reproducers which fit snugly to your ears, shutting out 95% of outside noise, allowing intimate private listening without disturbing other. Frequency response 30-15,000 cps. 4 ohm impedance allows connection directly to output of amplifier or across voice coil leads. Extremely comfortable, lightweight, and rugged. Has soft foam ear cushions, 8 ft. cord and stereo plug. Special jack assembly included for easy hookup to speaker. Shpg. wt. 2 lbs.

No. 22A364. Model SP3. Net Each..... **\$24.95**

② Model T-5 Junction Box. For connecting stereophones to existing stereo or monaural systems. Impedance 4-16 ohms. Contains two volume controls for controlling sound level in each phone. Has two output jacks for stereo or monaural use. Equipped with speaker off-on switch for personalized listening. Shpg. wt. 1 lb.

No. 22A387. Model T-5. Net Each..... **\$7.95**

## B-A SPECIAL PURCHASE



REGULAR NET \$34.95  
**\$21<sup>95</sup>**

ALL BALL-BEARING PIVOTS

PLAYS AT ANY ANGLE UP TO 90 DEGREES

**SAVE 37% ON THE FAMOUS ES L PROFESSIONAL STEREO TONE ARM**

Rated No. 1 by a leading consumer research organization, the fabulous S-1000 tone arm by ESL was a hi-fi bargain at \$34.95, but now is offered at a fantastic savings of \$13.00. Specially designed for stereo, uses ball-bearing action or vertical and horizontal motions. Turntable levelling is unnecessary, plays records at any angle up to 90 degrees. Tracks at 2 grams for minimum record wear. Detachable cartridge shell will accept any cartridge with 1/2" or 1/4" mtg. centers. Finished in attractive satin-chrome. For up to 12" records. Shpg. wt. 3 lbs. No. 22A376.

S-1000 Tone Arm, Special..... **\$21.95**



# HIGH FIDELITY CARTRIDGES AND ACCESSORIES



## GE STEREO CARTRIDGES

The entirely new GE VR Series Stereo Cartridge marks an outstanding advance in magnetic stereo cartridge design. Unsurpassed perfection in all four critical areas of stereo performance—unusually high compliance, (both lateral and vertical), wide and consistent channel separation, wide-range frequency response on both channels, triple mu-metal shield against all possible hum sources. Available in models listed below.

① **NEW MODEL VR1000-7.** Designed for optimum performance in the finest music systems, this new model features triple mu-metal shielding, absolute flat response between 20 and 20,000 cps at only 2 grams tracking force. No. 60B156. Model VR-1000-7. With .7 mil diamond stylus. **Net Each. \$24.45**  
 No. 60B157. Model VR-1000-5. With .5 mil diamond stylus. **Net Each. \$29.35**  
 No. 60B158. Replacement dia. stylus for VR-1000-7. Model DR-7D. **Eo. \$12.65**  
 No. 60B160. Replacement dia. stylus for VR-1000-5. Model DR-5D. **Eo. \$14.65**

② **MODEL VR-227.** For record changers and turntables. Has 20-17,000 cps freq. response. 6 millivolt output. 30 db channel separation. Tracking force 5 to 7 grams.  $\frac{1}{4}$ " or  $\frac{1}{2}$ " mtg. centers.  
 60A67. Model VR-227. With .7 mil diamond stylus. **Net Each. \$16.61**

③ **Model VR-225.** For professional type tone arms. Freq. response 20-20,000 cps. Tracking force 2 to 4 grams, otherwise same as VR-227.  
 No. 60A68. Model VR-225. With .5 mil diamond stylus. **Net Each \$18.57**

## VR II VARIABLE RELUCTANCE HI-FI CARTRIDGES

Frequency response from 20-20,000 cps, slim design and plug-in connections. Tracks at only 6 grams. Triple or single speed clip-in-tip stylus. .001 for 33 $\frac{1}{3}$ -45 RPM; .003 for 78 RPM. "D" for Diamond tip and "S" for Sapphire. Pre-amp listed below is required.

Stk. No.	GE Cart.	Application	Tip	Net Each
① 20B248	4G-050	Triple Play	.001S-.003S	\$12.69
② 60B141	4G-052	Triple-Play	.001D-.003S	17.59
③ 20B249	4G-040	Single-Play	.003S	9.75
④ 20B250	4G-041	Single-Play	.001S	9.75
⑤ 60B144	4G-061	Single-Play	.001D	14.65

## REPLACEMENT STYLI FOR GE CARTRIDGES



### ① REPLACEMENT STYLI FOR STEREO CARTRIDGES

Stk. No.	GE No.	Tip	For Cartridge	Net Each
① 60A66	VR222	.7 mil diamond	VR227	\$ 9.75
② 60A65	VR221	.5 mil diamond	VR225	10.73
③ 60A96	ST7D	.7 mil diamond	GC-7	9.75
④ 60A199	ST7S	.7 mil sapphire	CL-7	3.42

### ① CLIP IN STYLI FOR VR II CARTRIDGES

Stk. No.	GE No.	Sapphire Tip	Net Each	Stock No.	GE No.	Diamond Tip	Net Each
① 60B227	4G-015	.001	\$2.89	60B121	4G-01D	.001	\$7.79
② 60B228	4G-025	.0025	2.89	60B133	4G-02D	.0025	7.79
③ 60B229	4G-035	.003	2.89	60B138	4G-03D	.003	7.79

### STYLI FOR OLDER RPX CARTRIDGES

Stk. No.	GE No.	Application	Tip	Net Ea.
① 20B653	RPJ-010A	Triple Play	.001S-.003S	\$ 5.83
② 60A145	RPJ-012A	Triple Play	.001D-.003D	14.65
③ 60A113	RPJ-013A	Triple Play	.001D-.003S	9.75
④ 60A118	RPJ-007A	Triple Play	.001S-.0025S	5.83
⑤ 60A146	RPJ-01D	Single Play	.001D	7.79
⑥ 60A147	RPJ-02D	Single Play	.0025D	7.79
⑦ 60A149	RPJ-01S	Single Play	.001S	2.89
⑧ 60A151	RPJ-03S	Single Play	.003S	2.89

### SINGLE STYLUS REPLACEMENT FOR RPX040 AND RPX041

Not interchangeable with Clip-In Stylus.

① 20B546	RPJ-001	Single Play	.003S	\$2.89
② 60A109	RPJ-004	Single Play	.001D	7.79
③ 20B547	RPJ-005	Single Play	.001S	2.89
④ 60A108	RPJ-002	Single Play	.0025D	7.79

## GE PHONO PREAMPLIFIER

① **MODEL UPX-003B MONAURAL PREAMP.** Perfectly matched unit for above cartridges as well as any magnetic cartridge. Automatically provides 1AA compensation on both LP and stereo records. Also equalized for mike input with "Phono-Mike" switch furnished. 32 db gain on mike input. Complete with 6SC7 tube, input phono jack, output lead with phono plug, and C cord. 3 $\frac{3}{8}$ " W. x 3 $\frac{1}{2}$ " L. x 3 $\frac{3}{4}$ " H. For 115 V. AC. **\$14.45**

② **MODEL MF-1 STEREO PREAMP.** Two preamps on one chassis for stereo systems. Has inputs for two phono and two tape channels, both equalized. No switches provided for switching tape or phono channels individually. Complete with 2 tubes (7025), line cord and 4 input phono jacks. Size  $\frac{1}{2}$ " L. x 3 $\frac{3}{8}$ " W. x 4" H. For 115 V. AC. **\$24.45**

## FAIRCHILD SM-2 STEREO CARTRIDGE

Designed to fulfill professional studio playback requirements, this new low-mass, moving magnet cartridge reproduces all the fidelity and response originally pressed into the record. Features unusually high compliance, wide linear separation 5 mv. Output, 2.5 gram tracking force. Has .7 mil polished diamond replaceable stylus. **Net Each. \$37.50**

## SHURE STEREO CARTRIDGES

### ① SHURE M7D CUSTOM DYNETIC

Famous Stereo Cartridge rated tops by a leading consumer research magazine. A completely hum-free stereo dynetic cartridge designed to offer high needle compliance, low needle talk, low tracking forces, wide range frequency response; minimum interference from external magnetic fields and no magnetic attraction to steel turntables. A truly premium cartridge, the quality of which is reflected in its acceptance by leading manufacturers for use in their finest quality package equipment. Works perfectly in record changers as well as transcription tone arms. Specifications: Freq. resp. 20 to 15,000 cps. Output voltage 5 millivolts per channel. Channel separation 20 db at 1000 cps. Recommended load impedance 47,000 ohms per channel. Tracking force 4 to 7 grams. Standard  $\frac{1}{2}$ " mounting centers. **Wt. 6.8 grams. \$23.52**

No. 60A78. M7D Cartridge. **Net Each. \$23.52**

No. 60A60. Replacement Diamond Stylus. **Net Each. \$11.76**

② **MODEL M7-N21D.** Cartridge above is combined with the fabulous N21D tubular diamond stylus to give incredibly high compliance. Optimum tracking pressure 2 grams. For manual tone arms.

No. 60B161. **Net Each. \$36.00**

No. 60B162. N21D Diamond Stylus Only. For M7D or M3D. **Net Each. \$24.25**

### ③ M3D SHURE STEREO "PROFESSIONAL" DYNETIC

Rated No. 1 by a leading consumer research publication. Designed for those who will accept no compromise in the quality of reproduction from their stereo records. Completely compatible for playing both stereo and standard LP's. For use in all record changers and tone arms, will operate through magnetic input of any good quality preamplifier. Frequency response 20-15,000 cps at  $\pm 3$  db. Channel separation 20 db. Output voltage 5 MV. Recommended tracking force 3-4 grams for tone arms, 6 grams for record changers. Complete with .7 mil diamond stylus. **\$44.10**

No. 60A88. Model M3D. **Net Each. \$44.10**

No. 60A59. Replacement Diamond Stylus. **Net Each. \$22.05**

### ④ SHURE M8D STEREO "STANDARD" DYNETIC

A new member to the growing family of fine cartridges by Shure, the M8D represents the finest stereo value at such a moderate price. Frequency response 30 to 15,000 cps, 5 millivolts per channel at 1000 cps. Channel separation more than 20 db at 1000 cps. Tracking force 5 to 8 grams. Standard  $\frac{1}{2}$ " mtg. centers. Dia. .7 mil. stylus. **\$16.17**

No. 60A44. Model M8D. **Net Each. \$16.17**

Replacement Diamond Stylus for M8D. **\$8.09**

## PICKERING STEREO FLUX-VALVE CARTRIDGES

① **MODEL 380-C.** Traditional Pickering quality design. Hermetically sealed and fully encapsulated in mu-metal for hum-free performance. Exclusive magnetic discriminator provides channel separation of 25 db. Freq. response 20 to 20,000 cps  $\pm 2$  db. Fits all changers and tone arms. Tracking force 3-7 grams. Equipped with new "V-Guard" stylus assembly. **\$29.85**

No. 60A71. Model 380-C. With .7 mil diamond stylus. **Net Each. \$29.85**

② **NEW! MODEL "STEREO 90".** A fine quality stereo pickup designed specifically for record changers and record players. Push-pull magnetic circuit type with hum bucking coils, offering smooth response over entire frequency range. Freq. response 30-15,000 cps; output 8 millivolts per channel, tracking force 4 to 6 grams, channel separation 20 db. Uses famous T-Guard diamond stylus assembly. **\$16.50**

No. 60A41. Model 90. **Net Each. \$16.50**

Replacement "V-Guard" diamond assembly for Model 380C. **\$15.00**

No. 60A72. Type D3807C. **Net Each. \$15.00**

Replacement "T-Guard" diamond assembly for Model 371C. **\$12.00**

No. 60A79. Type D3707C. **Net Each. \$12.00**

Replacement "T-Guard" diamond assembly for Model 90. **\$9.90**

No. 60A42. Type D9007. **Net Each. \$9.90**

## ③ SONOTONE STEREO CARTRIDGE

**NEW 9T.** Absolutely flat over entire recording range  $\pm 1$  db at 20 to 15,000 cps, this new model sets a new standard of excellence for ceramic stereo cartridges. Features high compliance, fool-proof turnover stylus assembly for playing all speeds, low noise level. Tracking pressure 2 to 6 grams. Output voltage .3 volt per channel, separation more than 20 db between channels. For turntables or high quality record changers. **\$9.70**

No. 60A39. Model 9T-S Sapphire .7 mil and 3 mil. **Net Each. \$9.70**

No. 60A40. Model 9T-SD. .7 mil dia. 3 mil sapphire. **Net Each. \$11.47**

## ④ DUOTONE "ACOS" STEREO CARTRIDGE

Rated best buy by leading consumer research publication. Features the exclusive "Floating Needle Action" which nullifies needle talk and allows greater vertical and lateral compliance. Provides smoother, clearer sound reproduction. Foolproof turnover mechanism places stylus at a perfect 45° to each record face assuring flawless, balanced reproduction in stereo as well as monaural. Completely compatible for all types of turntables and changers. Response 40-15,000 cps, output voltage 1 volt. Tracking force 2-4 grams, channel separation 25 db. .7 mil diamond, 3 mil sapphire stylii. No. 60A76. Model GP5735D. **\$9.95**

**Net Each. \$9.95**

## DYNA-EMPIRE 108 STEREO CARTRIDGE

An excitingly new moving magnet transducer offers the ultimate in performance, markedly superior in tonal quality, stereo balance, channel separation, compliance, tracking efficiency and complete freedom from hum pick-up. The superlative quality engineered into this cartridge assures that every note in your finest records will be faithfully reproduced. Frequency response 15 to 30,000 cps  $\pm 2$  db, output voltage 8 millivolts per channel balanced to within  $\pm 1$  db; channel separation more than 25 db. Recommended tracking force 1.5 to 5 grams. 4-terminal output. No. 60A43. Model 108. **\$35.00**

**Net Each. \$35.00**



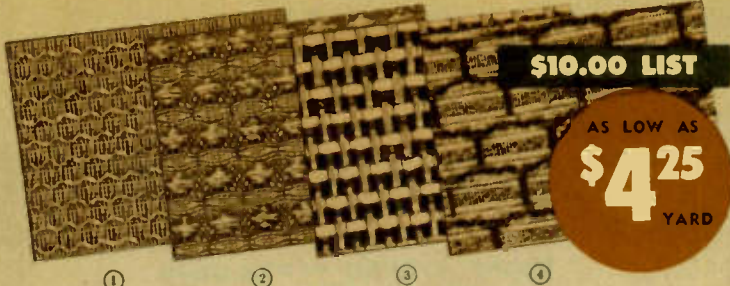


# NEW DECORATOR GRILLE FABRIC

WOVEN ESPECIALLY FOR B-A BY MELLOTONE

Now, for the first time the same specially woven grille fabrics used by the nation's leading manufacturers of sound equipment are available for your own hi-fi, TV or other sound installations at B-A's low prices.

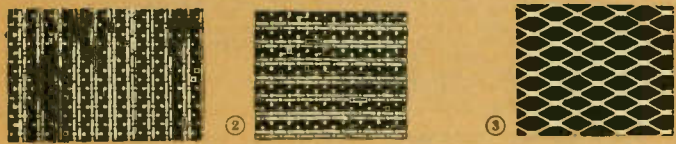
These are not ordinary materials! Each was created by the finest designers, made of the highest quality materials, and woven especially for the transmission of sound. The patterns described below were carefully chosen from hundreds of fabrics to give you just the right selection to blend with any furniture style or wood tone. For your convenience suggested furniture styles and cabinet woods are noted with each pattern.



- ① **Block Diamonds.** Striking design of closely woven diagonal silver strands on field of midnight black. Recommended for use with ebony. Furniture style—modern. List price \$10.00 per yard. No. 32A303. 18x24". Net Each \$2.15 No. 32A302. 36x36". Net Each \$4.25
- ② **Cinnamon Royal.** Distinguished design of dark brown horizontal yarns with interwoven metallic threads of glistening gold. Background of delicate dark brown and white. For use with mahogany. Furniture style—traditional. No. 32A305. 18x24". Net Each \$2.15 No. 32A304. 36x36". Net Each \$4.25
- ③ **Golden Glow.** Rich golden horizontal stripes against a muted background of creamy brown. For use with all furniture styles. Woods—walnut, maple, cherry, fruitwood. List price \$10.00 per yard. No. 32A307. 18x24". Net Each \$2.15 No. 32A306. 36x36". Net Each \$4.25
- ④ **Colonial Homespun.** Warm tans and browns with thin pencil type of dark brown make this fabric an ideal selection for early American furniture. Woods—walnut, maple, cherry, fruitwood. No. 32A309. 18x24". Net Each \$2.40 No. 32A308. 36x36". Net Each \$4.75
- ⑤ **Tahiti Cane—Natural.** One of our most popular patterns. Looks almost exactly like expensive natural cane. For use with all furniture styles, all woods. No. 32A317. 18x24". Net Each \$2.40 No. 32A316. 36x36". Net Each \$4.75
- ⑥ **Tahiti Cane—White.** Vertical fibers resemble natural cane. Pure white horizontal fibers edged with golden metallic threads produce gleaming highlights. For use with all furniture styles, all woods. No. 32A319. 18x24". Net Each \$2.40 No. 32A318. 36x36". Net Each \$4.75
- ⑦ **Tahiti Cane—Dark.** Rich chocolate brown yarns used for horizontal weave. For use with all furniture styles, all woods except ebony. No. 32A321. 18x24". Net Each \$2.40 No. 32A320. 36x36". Net Each \$4.75

- ⑧ **Fern Weave.** A fine tracery of delicately tinted tan and off-white with glittering gold metallic thread at regular intervals. Dark brown vertical fibers produce shimmering triangular designs. For use with walnut, mahogany, maple. Furniture style—Early American, Traditional. No. 32A315. 18x24". Net Each \$2.25 No. 32A314. 36x36". Net Each \$4.50
- ⑨ **Autumn Weaves—Light.** Horizontal silver tan yarns edged with golden metallic threads on field of dark brown. Yarns form small triangles with gleaming gold centers. For use with maple, walnut. Furniture styles—Traditional, Early American. No. 32A323. 18x24". Net Each \$2.25 No. 32A322. 36x36". Net Each \$4.50
- ⑩ **Autumn Weaves—Medium.** Same design as above except that dark brown yarn is used in place of silver tan. Same woods and furniture styles. No. 32A325. 18x24". Net Each \$2.25 No. 32A324. 36x36". Net Each \$4.50
- ⑪ **Autumn Weaves—Dark.** Same design as above except that deeper brown is used for horizontal yarns. A truly regal design. Same woods and furniture styles. No. 32A331. 18x24". Net Each \$2.25 No. 32A330. 36x36". Net Each \$4.50
- ⑫ **Americana—Light.** Interesting honeycomb design made up of dark brown horizontal and vertical yarns interwoven with gold threads on a background of tan and brown. Especially attractive with Early American furniture. Woods—maple, walnut, fruitwood, cherry. No. 32A329. 18x24". Net Each \$2.40 No. 32A328. 36x36". Net Each \$4.75
- ⑬ **Americana—Medium.** Same design as above except that rich browns with darker stripe used in background. For use with same furniture styles and woods as above. No. 32A327. 18x24". Net Each \$2.40 No. 32A326. 36x36". Net Each \$4.75

## GRILLE CLOTH AND METAL SPEAKER GRILLES



- ① **PLASTIC SARAN GRILLE CLOTH**  
Beautiful Saran plastic woven cloth in attractive patterns. Easily cleaned with a damp cloth. Will not stain, rot or mildew.  

Size	Bronze & Gold	Ecru & Ivory	Price
12x18"	33A108	33A110	\$0.97
36x36"	33A109	33A111	5.44
- ② **MODERN DESIGN WOVEN GRILLE CLOTH**  
Finest quality with beautiful tapestry effect pattern. Ideal for radios, phonos, etc.  

Size	Brown	Ivory	Price
18x20"	11A45	16A434	\$0.88
9x18"	11A46	16A435	.44
1 yd.x1 yd.	22B230	22B231	3.70
- ③ **ORNAMENTAL METAL GRILLE**  
Heavy duty perforated metal grille, brushed brass plated and lacquered for enduring rich gold effect. Used over grille cloth in custom-built radios, speaker cabinets, juke boxes.  

Stk. No.	Size	Wt.	Each
32B282	12x18"	1 lb.	\$2.06
32B283	18x24"	1 3/4 lb.	3.60
32B284	24x36"	3 1/2 lb.	6.14

### LEKTROSTAT RECORD CLEANING KIT



Entirely new approach to the care and cleaning of records, both LP and stereo. Actually cleans the grooves as well as the surface. Exclusive new formula features a non-gumming, antistatic liquid detergent in a plastic squeeze bottle, plus a special fine-grain cloth applicator 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 to the finest records. Comes complete in handy plastic pouch. No. 11A9. Lektrostat Kit. Net Each \$1.96

### AUDIOTEX STEREO AND MONAURAL TEST RECORD

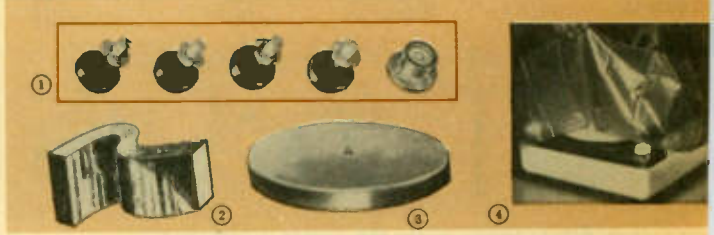


An absolute must for every high fidelity equipment owner. Completely tests the entire system. Makes stereo tests for pickup alignment and channel separation, frequency response, balance, and turntable rumble. Makes monaural tests for stylus wear, frequency response, intermodulation distortion, turntable rumble and tone arm resonance. Made in one of the best equipped audio laboratories using the newest Hydrolath recording devices. No. 22A240. Net Each \$2.93

### DEXTRAFIX TONE ARM CONTROL



A unique, precision-made accessory for raising or lowering tone arm by a simple lever-type control. Will fit turntable arms or record changers. Allow exact placement of cart-ridge on record, while protecting both record and stylus from damage due to accidental dropping of tone arm. Ideal for cueing, or playing only certain passages of a record. Easy to install and operate. Adjusts to any tone arm height. Complete instructions supplied. No. 11A387. Dextrafix. Net Each \$4.25



## HIGH FIDELITY AUDIO ACCESSORIES

- ① **PHONO LEVEL KIT**  
A level turntable or record changer is a must for stereo reproduction. Kit includes circular bubble level and four adjustable feet. Level is 3/4" dia. finished in nickel plated brass. Mfg. list price \$3.25. No. 11A397. Type 30-226. Net Each \$1.99
- ② **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. Mfg. list price \$2.25. No. 11A398. Type 30-356. Net Each \$1.99
- ③ **TURNTABLE PADS**  
Foam rubber pads fit any turntable or record changer. Cushions record and protects valuable records. 1/4" thick with brass ferrule center hole. No. 20A692. 9 3/4" dia. Pad. Mfg. list \$1.00. Net Each \$0.50  
No. 20A693. 12" dia. Pad. Mfg. list \$1.25. Net Each \$0.75
- ④ **PLASTIC PHONO COVERS**  
For protecting record changers and turntables against dust. Made of heavy duty plastic vinyl.  
For Webcor, V-M, Garrard, etc. Size 13 1/4 x 12 1/2 x 8". No. 11A399. Type 30-048. Mfg. list \$2.50. Net Each \$1.47  
For Garrard, Glaser-Steers, Thorens, etc. Size 17x15x8 1/2". Mfg. list \$2.50. No. 11A401. Type 30-050. Net Each \$1.47

### NEW MALLORY "LL" STEREO L-PAD

A dual L-Pad designed as stereo balance or master volume control of low level, low impedance audio circuits. Consists of two separate L-Pads mounted in a piggy-back arrangement and operated by a common shaft for convenient adjustment of both channels from one control panel. Extra long 1" bushing allows mounting in speaker cabinets. Shaft length 1 1/2". 15 watts rating. Packaged with knob, mtg. nuts, instructions and two-faced dial plate.  

Stk. No.	Type	Impedance	Net Each
15A627	LL 8	8 Ohms	\$5.85
15A635	LL16	16 Ohms	5.85
15A640	LL50	50 Ohms	5.85



### MALLORY "LA" PAD

An improved version of the famous Mallory L-Pad, featuring an extra long bushing for mounting in speaker cabinets. Used as a level control in mono aural equipment while maintaining perfect impedance match to speakers. bushing, 1 1/2" shaft. Packaged with knob, mtg. nuts, instructions, and two-faced dial plate. List price \$4.75.  

No. 15A642.	Type L8A	Impedance-8 Ohms.	Net Each \$2.00
No. 15A650.	Type L16A	Impedance-16 Ohms.	Net Each \$2.00



# HI-FI AND STEREO AUDIO ACCESSORIES

## SWITCHCRAFT MOLDED HI-FI CABLES



High quality connecting cables for use with audio and high fidelity equipment, tape recorders, speaker extensions, or wherever jumper cords are needed. Connectors are molded in plastic directly to cable, with molded-in finger grip for easy removal from socket. Wire is attractive chrome-gray. All are shielded except # which are unshielded.

Stock No.	One End	Other End	Length	Each	Stock No.	One End	Other End	Length	Each
20A276	(1)	(1)	6 Ft.	\$1.53	20A374	(5)	(6)	6 Ft.	\$0.88
20A277	(1)	(2)	6 Ft.	1.18	20A375	(5)	(6)	10 Ft.	.97
20A284	(1)	(3)	6 Ft.	1.29	20A331	(2)	(2)	18 In.	.62
20A289	(1)	(4)	6 Ft.	1.53	20A332	(2)	(2)	3 Ft.	.71
20A290	(1)	(5)	6 Ft.	1.18	20A333	(2)	(2)	6 Ft.	.88
20A291	(8)	(8)	6 Ft.	1.53	20B245	(2)	(2)	10 Ft.	1.18
20A105	(8)	(8)	10 Ft.	2.08	20A110	(2)	(2)	25 Ft.	2.08
20A106	(8)	(8)	25 Ft.	2.79	20A336	(2)	(3)	3 Ft.	.79
20A330	(8)	(2)	6 Ft.	1.18	20A337	(2)	(3)	6 Ft.	1.03
20A107	(8)	(2)	10 Ft.	1.82	20B246	(2)	(3)	10 Ft.	1.18
20A292	(8)	(3)	6 Ft.	1.29	20A111	(2)	(3)	25 Ft.	2.08
20A311 <sup>m</sup>	(8)	(7)	6 Ft.	1.12	20A375	(2)	(4)	6 Ft.	1.44
20A109 <sup>a</sup>	(8)	(7)	20 Ft.	1.76	20A376	(2)	(5)	6 Ft.	.88
20A313	(5)	(5)	18 In.	.82	20A377	(2)	(5)	10 Ft.	1.18
20A323	(5)	(5)	3 Ft.	.71	20A379 <sup>a</sup>	(2)	(6)	6 Ft.	.53
20A324	(5)	(5)	6 Ft.	.88	20A112	(2)	(6)	18 In.	.47
20A325	(5)	(5)	10 Ft.	1.18	20A334	(2)	(6)	3 Ft.	.56
20A326	(5)	(3)	18 In.	.74	20A335	(2)	(6)	6 Ft.	.88
20A327	(5)	(3)	3 Ft.	.79	20A380	(2)	(6)	10 Ft.	.97
20A328	(5)	(3)	6 Ft.	1.03	20A113	(2)	(6)	25 Ft.	1.91
20A365	(5)	(3)	10 Ft.	1.18	20A381 <sup>a</sup>	(2)	(7)	6 Ft.	1.03
20A372	(5)	(6)	3 Ft.	.56					

## SWITCHCRAFT SHIELDED ADAPTORS



Provides a convenient means of coupling various combinations of phono and mike leads interchangeably with positive noise free electrical connections. In sturdy brass nickel plated housings 1 1/8" long, 1 3/8" diameter. Wt. 5 oz.

Stock No.	Type	Input	Output	Net Ea.
① 12B225	332A	Phono Jack	Female Mike Connector	\$1.03
① 12B226	334A	Phono Jack Connector	Female Mike Connector	.73
② 12B227	336A	Phono Jack	Phono Plug Connector	.85
② 12B228	338A	Male Mike Connector	Phono Plug Connector	.59
② 20A484	336B	Phono Jack	Phono Jack	.85
② 12B230	345A	Phono Jack	Phono Plug	.74
② 12B231	346	Two Phone Tip Jacks	Phone Plug	1.26
② 12B238	349A	Phono Jack	Phono Jack	.59

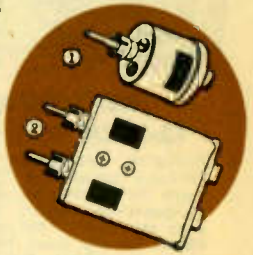
## STEREO LINE BALANCE CONTROLS

① **VOLUME CONTROL ADAPTOR.** Has built-in volume control for varying gain in any high impedance circuit (crystal mike, phono, etc.). Designed for use in unbalanced stereo channels. Completely shielded. Attractive nickel plated. Phono Jack input to phono plug output.

No. 20A470. Type 366. Net Each..... **\$2.32**

② **DUAL VOLUME CONTROL ADAPTOR.** Twin channel, same as above except two completely isolated volume controls are used to balance two stereo channels. Two phono jack inputs to two phono plug outputs. Attractive tan finish, completely shielded housing with nickel plated accessories.

No. 20A479. Type 367. Net Each..... **\$4.41**



## STEREO CABLE ASSEMBLIES



Two shielded insulated cables inside a common chrome gray plastic jacket provide for two completely isolated channels. Separately insulated shields minimize ground loop. Both inner jackets are color coded for easy channel identification. Gray stereo cable. Available in combinations listed below.

① and ① Two Phono Plugs of each end.	
No. 20A340. 3 ft. length. Net Each.....	\$1.91
No. 20A445. 6 ft. length. Net Each.....	\$2.21
No. 20A462. 10 ft. length. Net Each.....	\$2.66
① and ② Two Phono Plugs on one end and two stripped and tinned leads on other.	
No. 20A463. 3 ft. length. Net Each.....	\$1.72
No. 20A466. 6 ft. length. Net Each.....	\$1.91
No. 20A467. 10 ft. length. Net Each.....	\$2.21
③ Y-Adaptor, with 2 phono jacks connected in parallel to single phono plug. Completely shielded.	
No. 20A469. Net Each.....	\$1.03

## FLEXIBLE "Y" CONNECTORS

Ideal for connecting stereo source to monaural amplifier. Also used on some tape recorders. Gray shielded cable 4" long.

Phono Plug to Two Phono Jacks.	
No. 20A481. Type 330F1. Net Each.....	\$1.18
Phono Plug to One Phono Plug and One Phono Jack.	
No. 20A482. Type 330F2. Net Each.....	\$1.18
Phono Plug to Two Phono Plugs.	
No. 20A483. Type 330F3. Net Each.....	\$1.18



## ① STEREO CONVERSION KIT

A completely wired harness for converting older monaural phonos to stereo. Consists of two shielded cables with molded-on phono plugs, gray plastic insulation, wired to 5-term. solder strip, and two shielded tone arm leads, 24" long are wired to strip. For 3 or 4 wire stereo cartridges.

No. 17A662. 3 Ft. Cable. Net Each.....	\$1.42
No. 17A663. 6 Ft. Cable. Net Each.....	\$1.87
No. 17A664. 10 Ft. Cable. Net Each.....	\$2.02

## ② STEREO SPEAKER HARNESS

No more guessing which speaker goes to what terminal. A completely wired cable assembly consisting of two separate 2-cond. parallel cords sheathed 12" from one end. Four color-coded spade lugs on each end, allowing proper phasing of stereo speakers. 10 ft. lengths spread to 18 ft. between speakers, 15 ft. length to 28 ft., 25 ft. length to 48 ft.

No. 17A666. 10 Ft. Long Each Side. Net Each.....	\$1.42
No. 17A667. 15 Ft. Long Each Side. Net Each.....	\$1.87
No. 17A668. 25 Ft. Long Each Side. Net Each.....	\$2.39

Same as above except 4 color coded lugs one end, 4 stripped and tinned leads on the other.

No. 17A669. 10 Ft. Long Each Side. Net Each.....	\$1.31
No. 17A670. 15 Ft. Long Each Side. Net Each.....	\$1.84
No. 17A671. 25 Ft. Long Each Side. Net Each.....	\$2.29

## SWITCHCRAFT CONTROL UNITS



### ① MULTIPLE SELECTOR SWITCH

Accepts up to 5 input circuits with circuit switch connecting any one input to single output. Inputs are labeled—AM, FM, Phono, Tape and Aux. Attractive tan finished, completely shielded housing. All inputs are phono jacks. Mounts to panel or cabinet. Complete with mounting screws.

No. 20A198. Model 664. Net Each..... **\$2.91**

### ② STEREO SELECTOR SWITCH

With one switch, you can select any one of 3 stereo inputs to one stereo output. Ideal for switching tape, tuner, or phono to amp. 4 pairs of phono jacks mounted on tan metal box 2"x2"x1". Complete with instructions and mounting hardware.

No. 20A179. Type 668. Net Each..... **\$3.88**

### ③ STEREO-MONAUERAL SELECTOR

Simple and instant switching from stereo to monaural, or vice versa. Dual channel feed thru for stereo or outputs connected together for monaural. Switch has channel reversing for stereo. Size 2x2x1". Complete with mounting screws.

No. 20A180. Type 662. Net Each..... **\$2.06**

### ④ SPEAKER CONTROL WITH T-PAD

A constant impedance T-Pad mounted on attractive natural brushed brass wall plate for remote control of any stereo, hi-fi, or PA system speaker. Ivory knob with black escutcheon, white letters. Rated 4 watts (15 watts audio). Plate size 2 3/4x4 1/2". Fits standard outlet box.

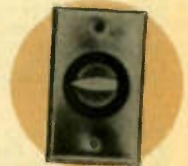
No. 20A181. Type 651—With 8 Ohm T-Pad Choice	
No. 20A182. Type 652—With 16 Ohm T-Pad Each	\$5.85

Same as above but furnished with 8 Ohm L-Pad. No. 20A183. Type 656. Net Each..... **\$4.09**

## MULTI-SPEAKER SELECTOR SWITCH

A seven-position switch mounted on an attractive natural brushed brass wall plate. Selects any one of 3 speakers, any 2 or 3, or all at once. Ideal for remote speakers in different rooms of your home. Constant impedance maintained regardless of switch position. Ivory knob with black escutcheon, white letters. Plate size 2 3/4x4 1/2", fits standard outlet box or can be mounted on speaker cabinet.

No. 20A184. Type 655. Net Each..... **\$3.23**



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Strauss Waltzes, Melachrino Strings & Orch.	RCA-11	LSP-1757	4.98	3.98
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Jealousy, Percy Faith and Orchestra	Cap.-12	CS8292	4.98	3.98
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Velvet Brass, Jackie Gleason and Orchestra	Cap.-5	SW-859	5.98	4.79
That Moment, Jackie Gleason Orchestra	Cap.-10	SW-1147	5.98	4.79
Hawaii, Johnny Pineapple and His Guitar	Aud.Fdl.-2	5850	5.95	4.79
Songs Of The Islands, Wayne King and Orchestra	Decca-1	74023	4.98	3.98
Lazy Lively Love, Jackie Gleason Orch.	Cap.-25	SW-1439	5.98	4.79
The Gentle Touch, Jackie Gleason Orch.	Cap.-29	SW-1519	5.98	4.79
Beyond The Reef, Percussive Pineapple	Med.-2	MS-7516	5.98	4.79
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Songs To Warm The Heart, Jim Reeves	RCA-17	LSP-2001	\$4.98	\$3.98
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Come To The Fair, Tennessee Ernie Ford	Cap.-26	ST-1473	4.98	3.98
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- SD811. Provocative Piano, Dick Hyman. Near You, Autumn Leaves, Polonaise, Canadian Sunset, Warsaw Concerto, etc.
- SD819. Tempestuous Trumpet, Dock Severinsen. After You've Gone, When It's Sleepytime Down South, Sugar Blues, Tenderly, etc.
- SD818. Big, Bold & Brossy, Enoch Light. Lullaby of Broadway, American Patrol, Theme from "The Apartment," Wabash Blues, Whiffenpoof Song, etc.
- SD817. Persuasive Percussion Vol. 3, Command All Stars. Moments to Remember, All The Way, Come Rain or Come Shine, Hawaiian War Chant, One For My Baby, etc.
- SD820. Reeds and Percussion, Command All Stars. Bewitched, Stompin' At The Savoy, As Time Goes By, etc.
- SD821. Provocative Percussion Vol. 3, Command All Stars. Easy To Love, April In Portugal, Pagan Love Song, Music from "Exodus," Far Aways Places, etc.

**THE FABULOUS KINGSTON TRIO ON CAPITOL STEREO LP'S**

- ST-1258. Here We Go Again! Molly Dee, Across The Wide Missouri, A Worried Man, A Rollin' Stone, San Miguel, etc.
- ST-1199. The Kingston Trio At Large. Scarlet Ribbons, Remember The Alamo, Blow Ye Winds, The Seine
- ST-1183. Stereo Concert. Tom Dooley, When The Saints Come Marching In, Three Jolly Coachmen, They Call The Wind Maria, The Merry Minuet, etc.
- ST-1352. Sold Out. El Matador, The Mountains O'Mourne, The Hunter, Farewell Adelita, With You My Johnny, etc.
- ST-1407. String Along. Leave My Woman Alone, This Mornin' This Evenin' So Soon, Everglades, Badman Blunder, Southwind, Tomorrow, etc.
- ST-1474. Make Way. Hangman, Speckled Raan, Jug of Punch, En El Agua, Blue Eyed Gal, The Candle Out, etc.



MFG. LIST \$4.98  
**\$3.98**

Please Specify Stk. No. 23C39 and Record No. When Ordering.

- ST-1564. Goin' Places. Billy Goat Hill, Run Molly Run, Guardo El Lobo, Senara, Lemon Tree, etc.

**WORLD FAMOUS MANTOVANI ON LONDON FFSS STEREO LP'S**

Please Specify Stock No. 23C39 and Record Number when Ordering.

- PS-106. Gems Forever All the Things You Are; True Love; I Could Have Danced All Night; Summertime; Love Letters, etc.
- PS-112. Music From the Films Warsaw Concerto, Serenata D'Amore; The Legend of The Glass Mountain; Carnish Rhapsody, etc.
- PS-118. Strauss Waltzes Blue Danube; Wine, Women and Song; Tales from the Vienna Woods; Emperor Waltz; Voice of Spring, etc.
- PS-124. Film Encores-Vol. 1 My Foolish Heart; Unchained Melody; Intermezzo; Three Coins in The Fountain; Laura; High Noon; September Song; Theme from Limelight, etc.
- PS-125. Song Hits From Theatrelana If I Loved You; Wunderbar; Hello Young Lovers; Strangers in Paradise; Some Enchanted Evening, etc.
- PS193. Songs To Remember. With These Hands, Far Away Places, Tenderly, No Other Love, Very Precious Love, etc.
- PS-202. Operetta Memories. The Merry Widow Waltz, Gypsy Love Waltz, My Hero, Play Gypsies Dance Gypsies, Serenade, etc.
- PS-224. Exodus and Other Great Themes. A Summer Place, The Sound of Music, I Love Paris, Mr. Wonderful, The Sundowners, etc.



MFG. LIST \$4.98  
**\$3.98**

- PS-133. Concert Encores Clair de Lune; Spanish Dance; Gypsy Airs; Autumn; Song of India; Meditations, etc.
- PS-147. Continental Encores Come Prima; La Vie En Rose; Under Paris Skies; April in Portugal; O Mein Papa; Autumn Leaves, etc.
- PS-164. Film Encores-Vol. 2 The High and The Mighty; A Certain Smile, Friendly Persuasion; Tammy; Be My Love; April Love; Around the World; Fascination; Secret Love.
- PS182. The American Scene. My Old Kentucky Home, Camptown Races, I Dream of Jeanie, Beautiful Dreamer, Yellow Rose of Texas, etc.
- PS-239. Italia Mia. Come Back to Sorrento, Carnival of Venice, Mattinata, Return to Me, Italian Medley,
- PS-242. Carnival and other Broadway Hits. Shall We Dance, I Feel Pretty, So In Love, You Are Beautiful, If Ever I would Leave You, etc.

**PRICE REDUCED**

RCA Victor's **VOLUME II**

**"60 YEARS OF MUSIC AMERICA LOVES BEST"**

A TREASURY OF FABULOUS PERFORMANCES BY THE WORLD'S GREATEST ARTISTS

TWO 12-INCH 33 1/3 HI-FI LP RECORDS

Another B-A special purchase brings you this sensational record offer! Hear the best of Guy Lombardo, Leonard Warren, Artie Shaw, Perry Como, Arturo Toscanini, Tommy Dorsey, Glenn Miller and many, many others playing the selections that made each so famous. No. 23C62. Special, Per Album.....**\$3.98**

**\$9.98 VALUE**

**\$3.98**





# MONEY-SAVING 4-SPEED STEREO AUTOMATIC PHONOS

MFG. LIST \$69.95

**\$49<sup>95</sup>**

**NOTHING DOWN  
ON EASY TERMS**



## AMAZING LOW COST! FAMOUS NAME STEREO AUTOMATIC PHONOGRAPH

An unmatched value . . . looks and performs like phonos costing a great deal more. A sure winner at B-A's popular low price.

Provides real top performance and thrilling tone quality from all records — "life-like" 3D stereo and regular too. Just put on a stack of your favorites—sit back and listen—smooth, quiet changer, the famous BSR, automatically plays them through and then automatically shuts-off after the last record.

Plays all sizes, all four speeds. Intermixes 10 and 12". Flip-over stereo cartridge has two long-life sapphire needles. Turntable rubber matted for record protection. 45 RPM center adaptor included.

Powerful two-channel, two tube plus selenium rectifier, stereo amplifier with separate volume and tone controls for that "extra" in tone quality. Two heavy duty front-mounted Alnico V PM speakers. One in the main cabinet, the other in the easily detachable top-front speaker unit. 12 ft. cable included for desired speaker spacing.

All wood luggage type carrying case covered in attractive two-tone scuff-resistant fabric. Measures 9<sup>5</sup>/<sub>8</sub>" H, 14<sup>3</sup>/<sub>4</sub>" W, 17<sup>1</sup>/<sub>8</sub>" D. 105-125 volts, 60 cy. AC. Shpg. wt. 27 lbs.

No. 31A153. Net Each..... **\$49.95**

## STEREO HI-FI BEST BUY!

Exceptional buy . . . way out front in performance, looks, durability and value! Offers all the conveniences of a portable with faithful full range reproduction expected of a console. Popular WING design, here before a feature of only the more expensive phonos, assures authentic "life-like" concert hall sound of all records—stereo and regular. Two enclosures, each with a 5" coaxial-cone speaker, swing out from the main cabinet and are instantly detachable for desired spacing (8 ft. cords included) and full stereo effect.

Fully automatic changer is the Perpetuum Ebner, recognized as one of world's finest. Features smooth, quiet operation in playing all records, all sizes, all four speeds. Intermixes 7, 10 and 12" of the same speed. Also has automatic shut-off, rubber-matted turntable, and precision flip-over stereo cartridge with two sapphire needles. a 45 RPM center adaptor included.

Two-channel stereo amplifier powered by a pair of 50EH5 tubes and selenium rectifier for 3 watts power and frequency response of 50 to 15,000 cps. Individual volume controls for each channel permit perfect balancing. Variable tone control adjusts both channels simultaneously to suit musical tastes.

Modern slim line luggage style case of all wood construction, covered with handsome simulated leather. Measures 8<sup>1</sup>/<sub>2</sub>" H, 21<sup>1</sup>/<sub>2</sub>" W, 16<sup>1</sup>/<sub>4</sub>" D. 105-125 volts 60 cy. AC. Shpg. wt. 30 lbs.

No. 30C193. Net Each..... **\$59.95**

MFG. LIST \$79.95

**\$59<sup>95</sup>**

Freq. Response  
50-15,000 cps.

**NOTHING DOWN  
ON EASY TERMS**



## B-A's BEST BUY 4-SPEED SINGLE PLAY

## AUTOMATIC 4-SPEED PORTABLE PHONO



### TOP LEADER VALUE

Best buy yet! **LOWEST COST EVER**

Nothing else to compare in looks and performance at B-A's fabulous low price. Ruggedly built to take abuse—the perfect all purpose player for recreation room, children's playroom anywhere in the house, or to take to school, parties, etc. Fine tone quality and wide sound dispersion from front mounted Alnico V speaker with full width speaker grille. Powerful amplifier for big room volume. Turn-over cartridge with dual sapphire replaceable styli. Plays 16<sup>3</sup>/<sub>8</sub>, 33<sup>1</sup>/<sub>8</sub>, 45 and 78 RPM records—all sizes 7, 10 and 12". Magic center for 45 RPM records.

Attractive, sturdy, lightweight carrying case covered in washable, scuff-resistant pyroxylin coated fabric. Size 6<sup>1</sup>/<sub>2</sub>" H, 12<sup>3</sup>/<sub>4</sub>" W, 10<sup>1</sup>/<sub>2</sub>" D. 110-120 V. 60 cy. AC. Shpg. wt. 10 lbs. Choice of Red with Black or Brown with White. **\$16.95**

No. 30A187. Net Each.....

### DELUXE SUPER VALUE

Lots of phono for the money. Compact and lightweight — carry it along for listening and dancing pleasure anywhere. Amplifier has plenty of power for every occasion.

Big Alnico V PM speaker front-mounted for extra fine tone quality and full room coverage while separate volume and tone controls permit adjusting sound to suit individual musical tastes. Lightweight tone arm with flip-over cartridge and two sapphire needles for playing long-play and 78 RPM records. Turntable has retractable adaptor for 45 RPM records, rubber matted for record protection. Plays all four speeds. Attractively styled carrying case ruggedly built for durability with all wood construction and scuff-resistant fabric. Measures 6<sup>3</sup>/<sub>4</sub>" H, 12<sup>3</sup>/<sub>4</sub>" W, 10<sup>3</sup>/<sub>4</sub>" D. 110-117 volts 60 cy. AC. Shpg. wt. 12 lbs. **\$19.96**

No. 30C120. Net Each.....

### DELUXE TWO-SPEAKER

Sleek, eye-appealing beauty combined with exceptional sound quality at surprising low price. Two heavy duty Alnico V PM speakers acoustically designed to match cabinet resonance and augmented by precision built, high output amplifier to provide superb tone quality. Separate volume and tone controls. Turnover cartridge with dual sapphire replaceable needles. Heavy duty 4-speed phono motor plays 33<sup>1</sup>/<sub>8</sub>, 45, 78 and 16<sup>3</sup>/<sub>8</sub> RPM records, all sizes—7, 10 and 12". Magic center adaptor for 45 RPM records.

Handsome carrying case, compact and lightweight, covered in two-tone Tahitian Orange, French Grey and Shell White pyroxylin plastic coated durable fabric. Sturdy all-wood lock joint construction. 13<sup>1</sup>/<sub>4</sub>" D, 12<sup>3</sup>/<sub>8</sub>" W, 5" H. 110-120 V. 60 cy. AC. Wt. 12 lbs. **\$23.92**

No. 31C222. Net Each.....

MFG. LIST \$49.95

**\$39<sup>95</sup>** **SENSATIONALLY PRICED**

An exceptional value that dares all comparison! Feature-loaded for the finest performance in automatically playing treasured 78's, long playing 45's and 33's plus story-book 16<sup>3</sup>/<sub>8</sub>. Plays all sizes, 7, 10 and 12" . . . intermixes 10 and 12" records of the same speed. Changer is World Famous "BSR" featuring heavy-duty 4-pole motor, rubber matted turntable, flip-over cartridge with dual sapphire needles, and automatic shut-off after last record plays.

Amazing tone quality is provided with front mounted 4" speakers and powerful amplifier. Has separate volume and full range tone controls.

Compact and rugged, quality all-wood construction. Covered in attractive two-tone simulated leather. Measures 13" W, 17<sup>1</sup>/<sub>4</sub>" D, 8<sup>1</sup>/<sub>2</sub>" H. 105-125 V. 60 cy. AC. Shpg. wt. 22 lbs.

No. 30A131  
Net Each..... **\$39.95**

No. 22B268. 45 RPM Spindle.....\$1.88



# OUR NEWEST STEREO HIGH FIDELITY PHONOGRAPH

**WITH REVERBERATION . . .**

**NEW FOURTH DIMENSION IN SOUND**

Sound of tomorrow . . . a reality today! Just the simple turn of a control brings a thrilling new dimension to recorded music. Every note, every tone comes alive with startling realism—brings back the reverberating overtones of the original performance. Seems to transport you right into the center of the concert hall or ballroom. Adds new depth to all records, stereo and standard. Reverberation is accomplished by a special circuit which takes the signal from one amplifier channel, delays it, then amplifies it through the other.

**HAS  
TRIPLE SOURCE  
SOUND**

**THREE SPEAKERS  
ONE 8-IN. WOOFER  
TWO 6-IN. TWIN  
CONE**



MFG. LIST \$179.95

**\$133.95**

**NOTHING DOWN! Easy Terms**

- 20-Watt straight AC Stereo Amplifier
- Magnificent Hi-Fi Tone, Freq. Resp. 30-20,000 cps.
- Diamond Needle for all LP's . . . Monaural and Stereo

Every conceivable quality feature has been incorporated in this magnificent instrument to provide musical listening pleasure at its finest. Combines the convenience of portability with exceptional performance as only expected from a large hi-fi stereo console.

**TRIPLE SOURCE STEREO SPEAKER SYSTEM.** 8" speaker in main cabinet reproduces the low tones from both channels while two 6" twin-cone speakers, one in each of the remote speaker cabinets, reproduce the medium and high tones from each channel. 12 ft. cables attached to each remote permits wide speaker separation. Reverberation feature may be used as desired.

**STEREOPHONIC RECORD CHANGER** of highest quality featuring heavy duty motor with positive drive mechanism for constant speed, rumble-free operation. Plays a full stock of 7, 10 or 12" stereo or standard records at 16, 33, 45 or 78 RPM. Intermixes 10 and 12" of same speed. Automatic shut-

off after last record. Equipped with 45 RPM spindle . . . plays 14 at one loading. High-fidelity ceramic flip-over stereo cartridge with diamond stylus for LP's, sapphire for 78 RPM.

**20-WATT MULTI-CHANNEL AMPLIFIER.** Straight AC powered. Frequency response 30 to 20,000 cps. Provides boosted push-pull bass for center speaker.

Front control panel with 5 controls: Bass, Treble, Loudness, Balance and Reverberation. Dual pots permit tone level adjustment of each channel. Beautifully expertly handcrafted all-wood cabinet covered in antique white and bronze brown tweed leatherette. Size 25" W, 19 3/4" D, 9 3/4" H. Remote speaker units, each 14" W, 4 1/2" D, 9 3/4" H, tuck conveniently into case. 110-120 V. 60 cy AC. UL approved. Shpg. wt. 40 lbs. **\$133.95**  
No. 30C194. Net Each.

## DELUXE STEREO HIGH FIDELITY 4-SPEED AUTOMATIC PHONOGRAPH



MFG. LIST \$119.95

**\$89.95**

**NOTHING DOWN**

Truly captivating . . . provides exceptional performance to capture the imagination of everyone. Stereo records are reproduced in all their beautiful tonal and dimensional quality while regular records sound better than ever. An eye-appealing beauty in appearance too! Unfolds from a compact portable into a full stereo system. Wing speaker enclosures swing out from main cabinet and are easily detached (10' extension cord with each) for best sound placement.

Superb tone quality from low-noise, hum-free dual channel stereophonic amplifier. 4 tubes including rectifier for 10 watts of power and frequency response of 50-15,000 cps. Four controls: Bass, Treble, Loudness and Balance assures best tone selectivity, and stereo balance at all listening levels. Four speakers: one 6" and one 3 1/2" in each of the two speaker enclosures.

Deluxe VM 4-speed automatic record changer plays all regular and stereo records, all sizes, all speeds. Intermixes 10 and 12", automatically shuts-off after last record. Turntable rubber matted. Wide-range ceramic flip-over stereo cartridge equipped with diamond stylus for long-play records, sapphire for 78 RPM. Beautifully styled carrying case covered in scuff-resistant, pyroxilin-coated Mandan black. Size 9" H, 23 1/2" W, 18" D. 110-120 volts 60 cy. AC. UL approved. Shpg. wt. 41 lbs. **\$89.95**

No. 31A154. Net Each. **\$89.95**  
No. 22B132. 45 RPM Spindle. Net Each. **\$1.30**

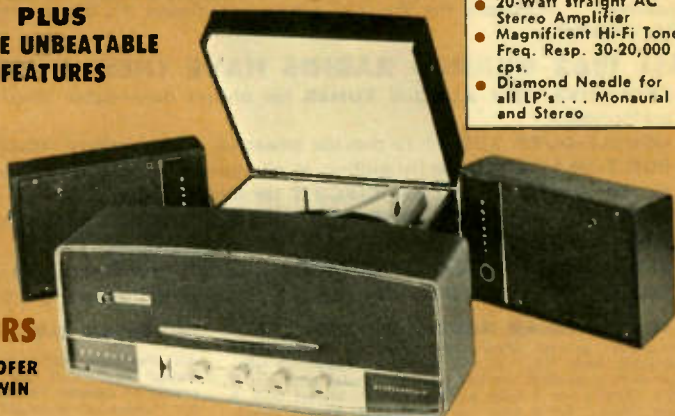
## OUR FINEST STEREO HIGH FIDELITY 4-SPEED AUTOMATIC PORTABLE PHONO

**FEATURING TRIPLE SOURCE SOUND  
PLUS  
THESE UNBEATABLE  
FEATURES**

Diamond needle  
standard equipment



**3 SPEAKERS  
ONE 8-IN. WOOFER  
TWO 6-IN. TWIN  
CONE**



- 20-Watt straight AC Stereo Amplifier
- Magnificent Hi-Fi Tone, Freq. Resp. 30-20,000 cps.
- Diamond Needle for all LP's . . . Monaural and Stereo

**ABSOLUTELY ELEGANT . . . WITHOUT A  
DOUBT AS FINE A STEREO PORTABLE  
PHONOGRAPH AS EVER MADE!**

Meets a new high standard of quality with advanced styling and exceptional features to provide magnificent high fidelity performance. Faithfully reproduces stereo records, capturing all the brilliance and all the realism of the live performance. Conventional (monaural) records too seem to come alive with stimulating tone quality.

Fabulous new WING design with two detachable speaker enclosures swinging outward from the center unit. Each has its own 6" twin-cone speaker for reproducing the middle and high tones from each channel of the stereo record. 8" woofer in center unit reproduces the low tones from both channels . . . provides amazing new triple source stereo sound. 8 ft. extension cables permit up to 17 ft. spread between the two detachable speaker systems.

Deluxe stereo automatic record changer with heavy duty motor and positive-drive mechanism

MFG. LIST \$149.95

**\$114.50**

assures constant speed, rumble-free operation at 16, 33, 45 and 78 RPM. Plays all sizes—7, 10, 12". Intermixes 10 and 12" of same speed. Automatic shut-off after last record. 45 RPM spindle included. High quality wide range ceramic stereo cartridge with diamond needle for all long play records—stereo and monaural; sapphire needle for 78 RPM.

Straight AC powered dual-channel stereo high fidelity amplifier provides amazing power—rated 20 watts. Frequency response 30 to 20,000 cps. Convenient front control panel with 4 controls—Bass, Treble, Loudness and Stereo balance. Dual pots on each permit individual adjustment of each channel.

Handcrafted all-wood cabinet covered in beautiful smoked gray and silver tweed leatherette. Size: 25" W, 19 3/4" D, 9 3/4" H. 110-120 V. 60 cy. AC. UL approved. Shpg. wt. 40 lbs. **\$149.95**

No. 30A182. Net Each. **\$114.50**



# GRANCO HIGH FIDELITY FM AND FM-AM TABLE RADIOS

DIVISION OF DUMONT-EMERSON

**MAGNIFICENT FM AND FM-AM RADIO ENTERTAINMENT AT LOWEST PRICES**



MFG. LIST \$31.95

**\$26<sup>95</sup>**  
603



MFG. LIST \$51.95

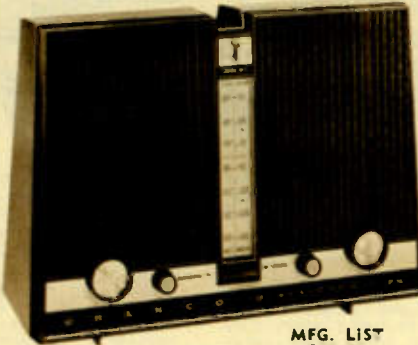
**\$44<sup>95</sup>**  
704



**\$44<sup>95</sup>**  
706

MFG. LIST \$51.95

## SYMPHONY HALL MODEL 802



MFG. LIST \$59.95

**2 EXTENDED RANGE SPEAKERS FOR EXCEPTIONAL TONE QUALITY**

**\$49<sup>95</sup>**

NOTHING DOWN

## STEREO COMPANIONS FOR FM MULTIPLEX BROADCASTS



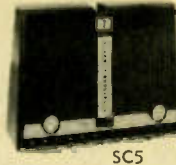
SC3

SC4

**ADD MULTIPLEX FOR AS LOW AS**

**\$22<sup>45</sup>**

Model SC3 MATCHES 603 AND 703



SC5

Adds a complete audio channel—matched amplifier and speaker—for receiving stereo-multiplex broadcasts. Nothing more needed.

Simply plugs-in. Interconnecting cable included. Exactly match their companion pieces in appearance, color, size and acoustics.

Each has volume control and function selector switch (3 positions: power-off, mono-aural, stereophonic).

Model SC-3. Matches "Music Hall" Models 603 and 703. Specify Color. Mfg. List \$26.95. No. 36B88. **\$22.45** 3 Lots **\$20.21** Net Each..... Each.....

Model SC-4. Matches "Concert Hall" Models 604 and 704. Specify Color. Mfg. List \$31.95. No. 36B91. **\$26.95** 3 Lots **\$24.25** Net Each..... Each.....

Model SC-5. Matches "Symphony Hall" Model 802. Dual speakers. Specify Color. Mfg. List \$34.95.

No. 36B92. **\$31.45** 3 Lots **\$28.30** Net Each..... Each.....

Introducing from America's leader in FM a complete new series of fine FM and FM-AM radios. Represents the most dramatic advance in listening pleasure. Compare the exceptional features . . . compare the low, low prices—as always it's Granco for the very best buys available anywhere.

## ALL 1962 GRANCO RADIOS HAVE THESE UNBEATABLE FEATURES

- **EXCLUSIVE NEW AUTO-G TUNER** for always dependable interference-free, drift-free FM performance.
- **DOUBLE-DUTY TUBES** to provide powerful, supersensitive reception everywhere.
- **BUILT-IN LINETENNA** for pulling-in all stations with good reception.
- **HAND-WIRED DETECTION CIRCUIT** for high fidelity audio.
- **POWERFUL ALNICO V EXTENDED-RANGE SPEAKERS** for fine tone quality.
- **PHONO INPUT JACK** for plugging-in phono attachment.
- **STEREO-MULTIPLEX OUTPUT JACK** for use of stereo companion units.
- **SMARTLY STYLED CABINETS** encased "all-around" including the back.

### FM AND FM-AM MODELS 603 AND 703

Popularly priced Music Hall Series. Amazingly compact, only 9 1/2" W, 4" D, 5" H. Easy-vue window with precision vernier tuning. Model 603 has 5 tube chassis for 7 tube performance; Model 703, 6 tube chassis for 8 tube performance. Please specify color: Arctic White, Grey and White, or Brown and White.

FM Model 603. Mfg. List \$31.95.

No. 36B83. **\$26.95** 3 Lots **\$24.43** Net Each..... Each.....

FM-AM Model 703. Mfg. List \$41.95.

No. 36B84. **\$35.95** 3 Lots **\$32.35** Net Each..... Each.....

### FM AND FM-AM 604 AND 704

Deluxe Concert Hall Series. Larger cabinets, better tone, more powerful than the Music Hall Series. Also features automatic frequency control (AFC) that locks-in FM station for perfect drift-free performance. Precision slide-rule dial. Built-in Linetenna with external antenna connections. Model 604 with 6 tube chassis for 8 tube performance; Model 704, 7 tube chassis providing 9 tube performance. Cabinets measure 12 1/2" W, 5 1/4" D, 6" H. Please specify color: White Mist, Charcoal and Grey, Brown and Tan.

FM Model 604. Mfg. List \$41.95.

No. 36B85. **\$35.95** 3 Lots **\$32.35** Net Each..... Each.....

FM-AM Model 704. Mfg. List \$51.95.

No. 36B86. **\$44.95** 3 Lots **\$40.45** Net Each..... Each.....

### FM-AM CLOCK RADIO MODEL 706

All the fine radio features of the FM-AM radio Model 703 PLUS the wonderful conveniences of a precision deluxe Telechron clock. Sets automatically for "wake-up-to-music." Also has alarm buzzer for sleepy heads. Specify color: Arctic White and Silver or Charcoal and Silver. Mfg. List \$51.95.

No. 36B95. **\$44.95** 3 Lots **\$40.45** Net Each..... Each.....

### SYMPHONY HALL FM-AM MODEL 802

Magnificent FM-AM listening enjoyment provided by super-powered 7 tube plus 4 semi-conductor diode chassis. Employs double-duty tubes for 9 tube performance. Brings in even the more distant stations with exceptional performance. Exclusive Auto-G coaxial tuner with automatic frequency control (AFC) for perfect drift-free reception. Automatic tone control circuit maintains constant tonal balance of both high and low frequencies at all volume levels. Two large extended range speakers with powerful Alnico V magnets for rich tone quality. Precision slide-rule dial. Built-in Powerenna with external antenna connections. Phono input jack. Stereo-Multiplex output jack for use with Model SC-5 companion stereo unit. Handsome modern cabinet, 12 1/2" W, 9 3/8" H, 5 1/4" D. at base, 3 1/4" D. at top. 105-120 V. AC-DC. Specify color: Charcoal Grey front with Platinum Grey back or Espresso Brown front with Tan back. Mfg. List \$59.95.

No. 36B87. **\$49.95** 3 Lots **\$44.95** Net Each..... Each.....

## NOW ENJOY FM RADIO IN YOUR CAR!

**FOR THE FIRST TIME AT LESS THAN \$60.00!**



MFG. LIST \$49.95

**\$42<sup>95</sup>**



**NOTHING DOWN ON EASY TERMS**

- Exclusive "Auto-G" coaxial Tuner . . . for highest sensitivity and selectivity.
- AFC . . . Locks station in for perfect drift-free performance.
- Compact Design . . . for quick, easy installation, perfect fit on any dashboard.
- Fits All 12-Volt American Cars or Trucks, PLUS Foreign Cars with negative ground.

Sensational FIRST by Granco, America's leading maker of FM. Incomparable interference-free hi-fi FM now a reality for the car at surprisingly low cost with this new FM tuner . . . brings new pleasure to auto radio listening.

Easy to install. Operates with present auto radio and antenna . . . takes power direct from 12-volt system of the car. Handsome compact styling complements any dashboard. Easily transferred when trading cars.

Super-powerful with 5 tubes plus 3 diodes for good reception within FM station areas. Size 8 1/8" wide, 1 1/4" high, 5 3/4" deep. Complete with fittings and instructions. Shpg. wt. 5 lbs.

No. 36B216. Model ARC60 Auto FM Converter. Mfg. List \$49.95. **\$42.95** 2 Lots **\$39.95** Net Each..... Each.....



# FABULOUS BUY..

**B-A SPECIAL**  
**\$29<sup>95</sup>**

**POWERFUL  
6 TUBE RADIO**  
*COMPARE AT \$39.95!*



- Exceptional long range performance with 3-gang vernier tuning condenser and tuned RF stage.
- Sparkling console-like tone with big 6 1/2" speaker and contour control.
- Jack and switch for record player attachment.

A remarkable value... as fine a set as we have seen! Power-packed for real station-getting ability. Gives excellent performance even in areas where other sets fail. Powerful 6 tube (including rectifier) chassis employs 3 gang tuning condenser and tuned RF stage for highest selectivity and sensitivity. Built-in ferrite loop antenna produces finest reception from all stations, nearby and distant. Tubes: 2-12BA6, 12BE6, 12AV6, 35CS and 35W4 power rectifier.

Amazing tone with high quality 6 1/2" Alnico V PM speaker. Utilizes latest advances in audio design with contour control for console-like bass response. Tone control permits adjustment of bass and treble to suit personal tastes. Volume control with convenient push-pull "on-off" feature.

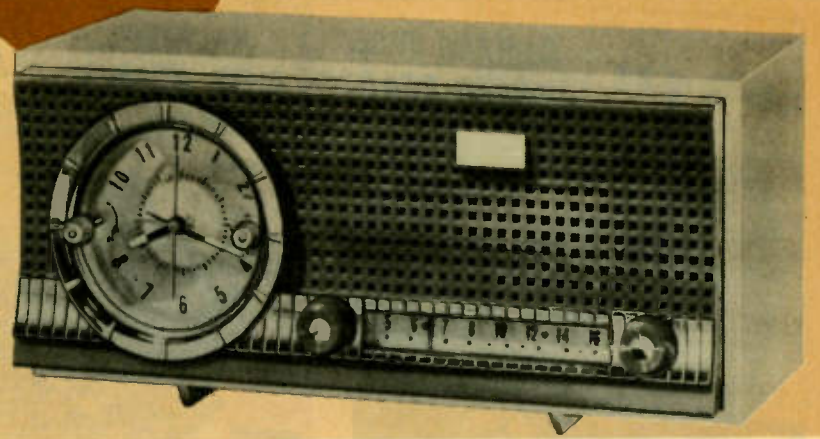
Phono input jack and radio phono switch on back of set for playing records through the radio. Permits use also as second audio channel for stereo phonos, recorder, etc.

Beautifully styled for any room in the house. Two-tone charcoal and white with gold-tone panel. Size 13 1/8" W, 7 1/8" H, 6 1/4" D. UL approved. 105-117 V. AC-DC. No. 36B234 B-A Special, Each..... **\$29.95**

**\$29.95  
MFG. LIST**  
**\$24<sup>97</sup>**

# DELUXE CLOCK RADIO

- Powerful 6 tube performance from advanced superhet circuit.
- Deluxe Telechron Clock with large easy-to-read numerals and luminous hands.
- All popular timer features including 1200 watt appliance outlet.



Best value we've seen! Just compare the features, compare the quality, compare the low price. Dollar for dollar there's nothing to equal it anywhere!

Powerful station-getter with advanced type superheterodyne circuit providing unmatched 6 tube performance with 4 tubes plus rectifier. Fine tone quality from heavy-duty Alnico V. PM speaker. Automatic volume control circuit insures steady clear sound—eliminates fading or blasting. Built-in precision loop antenna picks-up stations strong and clear. Slide-rule vernier dial provides easy tuning. Deluxe Telechron self-starting clock with

sweep second hand and large easy-to-read numerals. Luminous hands glow in the dark. Has all the popular clock features. Automatic "on" for waking one to music; alarm buzzer for heavier sleepers; appliance outlet (1200 watt) to start the coffee perking; "Sleep-switch" to automatically turn radio off up to 60 minutes after retiring.

Beautiful slim-line styled cabinet with smart gold colored trim. Size 5 3/4" H, 12 3/4" W, 6" D. 105-125 V. 60 cy. AC. Shpg. wt. 10 lbs. Choice of White or Charcoal Grey.

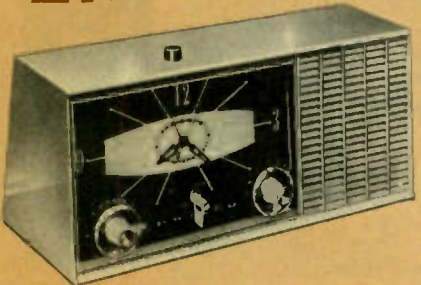
No. 36A343  
Net Each..... **\$24.97**

## TRAV-LER 5-TUBE TABLE RADIO

Terrific value! Brings a world of listening pleasure for much less than you would normally expect to pay. Just look at the fine features, the truly appealing modern styling, and compare. Powerful 5 tube (including rectifier) superhet circuit employs dual purpose tubes for 6 tube performance. Automatic volume control assures steady, clear sound without fading or blasting. Heavy duty Alnico V PM speaker provides superior tone quality. Precision built-in loop antenna pulls in local and distant stations clear and sharp. Beautiful functionally styled ebony cabinet 6" H, 9 1/4" W, 6 1/4" D. 105-125 V. 60 cy. AC-DC. Shpg. wt. 7 lbs. No. 36B231 Eo **\$14.35** 2 Lots **\$13.85** Each...

MFG. LIST \$18.95  
**\$14<sup>35</sup>**

**\$21<sup>95</sup>**  
780 MFG. LIST \$26.95



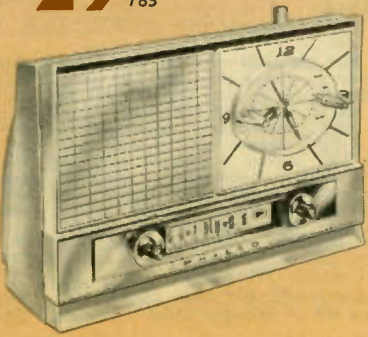
# PHILCO



**"40 WINKS"  
THE PHILCO TIMER  
THAT DOESN'T  
FORGET**

A boon to the sleepyhead. Simply push the button (on top of the set or on keyboard control) . . . your Philco will re-awaken you "40 winks" later.

**\$29<sup>95</sup>**  
783 MFG. LIST \$36.95



## CLOCK RADIOS FOR 1962

### MODEL 78D... SMALL AND ELEGANT

A triumph in value! New jet black clock face high-lighted by aluminum contrasts with solid color cabinet for beauty that will be appreciated everywhere. Finest AM 5 tube (including rectifier) radio with 4" speaker and self-contained antenna performs like sets costing much more. Has large easy reading clock face, radio timer for wake up music and "40 winks" timer. Clean modern styled plastic cabinet 6 3/8 x 13 x 5 1/8". Wt. 4 lbs. 115 V. AC. Mfg. list \$26.95. No. 36A350. Ivory or Mocha, specify color. **\$21.95** Net Each.....

### MODEL 783... SPARKLING STYLING! MORE FEATURES

Charming combination of modern design and warm appeal that suggests an aura of yesteryear. All-over plastic cabinet has finished back for fine appearance, better tone quality. AM 5 tube (including rectifier) radio has 4" speaker, loop antenna. Clock has luminous hands. Features radio "on" timer, buzzer alarm, lull away timer for up to 65 minutes of bed-time listening before music automatically fades away, and 40 winks timer. Size 7 1/8 x 11 3/8 x 4 1/2". Wt. 4 lbs. Specify white and pink or white and beige. **\$29.95** No. 36A351. Mfg. list \$36.95. Net Each.....

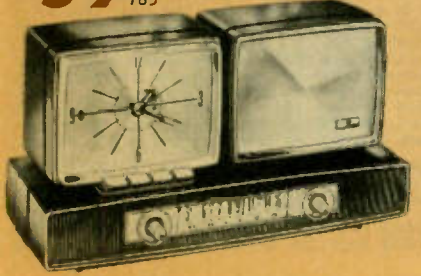
### MODEL 785... OUR MOST BEAUTIFUL CLOCK RADIO

Pleasing "unit-treatment" of clock and radio provide fine tone and far greater ease of reading radio and clock dials. AM radio has 5 tubes (including rectifier) modern dust and moisture sealed circuit panels, heavy 4" round speaker, lighted slide rule vernier tuning and powerful loop antenna.

Simplified keyboard control center selects all automatic functions with a touch of the finger. Has radio "on" timer, buzzer alarms, lull-away timer for up to 65 minutes of bed time listening before music automatically fades away and 40 winks timer.

Cabinet is fully enclosed, finished front and back. Size 7 x 12 1/4 x 4 1/2" deep. Wt. 5 lbs. Mfg. list \$49.95. **\$39.95** No. 36A352. Ivory or Black. Net Each.....

**\$39<sup>95</sup>**  
785 MFG. LIST \$49.95





# PHILCO

## ALL AMERICAN! ALL TRANSISTOR! PORTABLE RADIOS FOR 1962

### FAMOUS FOR QUALITY THE WORLD OVER

LIST PRICE \$49.95

**\$31<sup>88</sup>**

**CAMERA SIZE!  
RUGGED BEAUTY  
FINEST PERFORMANCE  
EVERYWHERE**



**8 T-88  
TRANSISTOR**

- Exclusive power-boost push-pull audio system.
- Precision space-age type transistors and circuitry.
- Highly styled break resistant case.

Precision crafted inside and out. Has the look and the feel of a fine camera, the advanced engineering and construction needed for satisfying listening.

Features extra dependable circuit panels and transistors like developed for critical space-age projects, extra sensitive Magnecor antenna and acoustically matched powerful 2 3/4" Alnico V speaker. Operates on just 2 long life penlight batteries. Highly styled ebony and chrome, break-resistant case withstands more than normal usage without harmful damage. Has retractable carry-about handle. 3 3/8" x 5 1/2" x 1 3/8" deep. Weighs only 14 oz.

No. 60A14. Net Each.....**\$31.88**  
No. 17B594. Earset for private listening. Each.....\$2.79  
No. 21A124. Battery Kit (2 Penlight Cells).....28c

HOT VALUE

**\$25<sup>82</sup>**  
WITH ACCESSORIES

**FITS SHIRT  
POCKET**



**6 MODEL T-61  
TRANSISTOR**

- With deluxe carrying case, private earset and batteries.
- Plays 100 hours on just two pen cells.

Shirt-pocket size personal portable delivers big-set performance. Extra-sensitive Magnecor antenna, 6 powerful transistors plus diode and exclusive power-boost push-pull audio circuit combine to deliver maximum power to the full-voiced PM speaker. Provides tone and volume to fill a room... music and voice produced faithfully at all volume levels. Easy, vernier tuning with finger-tip knob.

Handsome super-tough "break-proof" case measures just 4 3/8" H, 2 1/2" W, 1 3/8" D. Weighs only 8 oz. Complete with accessories. Choice of Ebony, Ivory or Terra Cotta.  
No. 60A32. Model T-61. Net Each.....**\$25.82**  
Battery Kit (2 Penlight Batteries)  
No. 21A124. Net.....28c

LIST PRICE \$59.95

**\$47<sup>50</sup>**

**SUPER  
LONG RANGE!**



**9 MODEL T-901  
TRANSISTOR**

- Genuine leather case.
- Tuned RF stage... 3-gang tuning condenser.
- Precision vernier dialing.
- Big speaker powered by push-pull audio system.

Truly a sensational value with performance that will amaze you. Super-powered 9 transistor chassis and Magnecor antenna brings in weakest stations where other sets fail. Rich-toned 4" speaker in extra large tone chamber powered by Philco's magnificent push-pull audio system gives the tops in listening pleasure... plays hundreds of hours on just 4 regular "D" flashlight batteries.

Beautiful genuine leather case with satin metal trim. Size 8 1/8" H, 10 1/8" W, 3 3/8" D. Weighs 4 lbs. 14 oz. List \$59.95.

No. 37A285. Model T-901. Less Battery. **\$47.50**  
Net Each.....  
No. 21A49. Battery Kit.....56c  
No. 17B594. Private Earset.....\$2.79

**Arvin HIGH PERFORMANCE PORTABLES • All American • All Transistor**

**8 TRANSISTOR**

MFG. LIST \$39.95

**\$32<sup>95</sup>**

- Tuned RF Amplifier.
- 3 Stage Push-Pull Audio.
- Big 3 1/2" Alnico V Speaker.
- 200 Hours Operation on Just 4 "C" Size Batteries.



**GENUINE TOP GRAIN LEATHER CASE**

Latest superheterodyne circuit with 8 "prestige" transistors and one diode gives superlative selectivity and sensitivity. Has extended two stage automatic volume control, two position tone control for voice or music, audio amplifier with inverse feedback sensitive ferrite rod antenna and slide rule tuning dial with regular kilocycle markings and civil defense frequencies identified for quick station settings. 4 standard "C" size batteries, operates over 200 hours for only pennies.

Case is chestnut tanned top-grain leather covered 7 5/8" W, 5 3/8" H, 2 1/8" deep. With earset and batteries. Wt. 4 lbs.

No. 37A258. Mfg. List \$39.95. **\$32.95**  
Net Each.....

18

**7 TRANSISTOR  
PERSONAL PORTABLE**



61R48

MFG. LIST \$34.95

**\$29<sup>95</sup>**

**7 TRANSISTOR  
MINIATURE SIZE**



MODEL  
61R39

MFG. LIST \$29.95

**\$24<sup>95</sup>**

An outstanding buy complete with all accessories! A carry-about radio to please everyone! Has genuine top-grain leather case to take the hard knocks of regular use. Has 7 "prestige" transistors plus 2 diodes, rugged and dependable super-sensitive printed circuit, 3 audio stages with inverse feedback, full range 2 3/4" Alnico V speaker, extended automatic volume control, noise-free air dielectric tuning condenser, easier precision drive vernier tuning, ferrite rod antenna for even the weak stations. Operates economically on 4 common penlight cells. Chestnut leather case 3 3/8" wide, 5 7/8" high, 2 3/8" deep, has snap-on protective front. Private earset and 4 pen cells included. Wt. 2 1/4 lbs.

No. 60A13. Mfg. List \$34.95. Net Each.....**\$29.95**  
No. 21B37. Battery Kit (4 Penlight Cells).....56c

Offers fine quality style and performance seldom found in a radio of this price and size. Has Arvin distinctive features for more power, improved tone, long battery life... 3 stage audio amplifier... 7 transistors plus diode, big top quality 2 1/4" speaker, automatic volume control, noise-free air dielectric tuning capacitor, pin-point tuning dial, "super-sensitive" printed circuit, ferrite rod antenna. It's all there—everything and more too, for finest radio pleasure. Operates on long life standard 9 V. battery.

In high impact case 2 1/8" W, 4 7/8" H, 1 3/8" deep. With genuine leather carrying case, private earset and battery. Wt. 1 1/4 lbs.

No. 60A12. Mfg. List \$29.95. Net Each.....**\$24.95**  
No. 21A43. Type 206 Battery. Net Each.....53c





**SPECIAL PURCHASE . . . TREMENDOUS \$\$\$ SAVINGS**

# STEREO HIGH FIDELITY PORTABLE AUTOMATIC PHONOGRAPHS

**THRILL TO 3 DIMENSIONAL SOUND FOR EXCITING NEW LISTENING PLEASURE!**

**BIGGEST SPEAKER EVER  
PUT IN A PORTABLE  
. . . GIANT 15 INCHES!**

**SAVE \$60.00**

REGULARLY WAS \$179.95

**\$119<sup>95</sup>**

Packed with features no other portables can match. Brings bigger, richer, fuller sound than ever before imagined. Real masterpieces . . . skillfully designed and constructed to assure the finest in listening pleasure everywhere. Compact all-in-one luggage style cases ruggedly built to withstand all around usage.

B-A's special purchase of these nationally famous Capitol phonographs makes possible these greatest \$\$\$ savings ever.

**Deluxe VM 4-Speed Record Changer.** Plays all records, all sizes, all speeds—stereo and monaural (regular). Intermixes 10 and 12" of the same speed. Automatically shuts-off complete instrument after last record plays. Rubber-mat on turntable protects records. Wide-range turnover cartridge has dual diamond-sapphire needle.

**Hi-Power Push-Pull High-Fidelity Stereo Amplifiers.** Straight AC designed with power transformer for rum-free performance and amazing undistorted power. Delivers exceptional wide range frequency response from lowest bass to silkiest highs. Master control panel with four controls provides exacting adjustment of bass, treble, loudness and balance.

**1-Channel Speaker Systems.** Provides an amazing new dimension of sound. Big English EMI 15-inch oval woofer, larger than in any other portable, provides bass response that is unbeatable. Detachable speaker enclosures, each with its own mid-range speaker and tweeter, reproduces the middle and high tones from each channel. Supplied with 10 ft. cables for most effective stereo placement.

**MODEL 132-WING SPEAKERS  
SIMULATED LEATHER CASE**

High fashion case covered in Dupont Vitalon gives appearance of rich saddle leather. Augmented by gleaming brass hardware. Popular wing design with detachable speaker enclosures that swing outward or stereo sound. 5 speakers: 15" oval woofer, 6x9" mid-range and 2-2x6" tweeters. 30 watt AC transformer-powered push-pull high fidelity amplifier. Size 15 1/2" W, 23 3/4" D, 9 1/2" H. 110-20 V. 60 cy. AC. Shpg. wt. 49 lbs. Regularly was \$179.95.

Special Each..... **\$119.95**

**MODEL 128 SPEAKER  
ENCLOSURES FIT IN LID**

Handsome carrying case of striking jet-black with white trim. Covered in scuff-resistant Pyralin. Detachable 9 1/2 x 13 3/4 x 2 3/4" speaker enclosures may be used in lid position or moved anywhere with 10 ft. cables attached. 5 speakers: 15" oval woofer, 2-3x5" mid-range, and 2-3x5" tweeters. 30 watt AC transformer-powered push-pull amplifier. Size 19 1/2" W, 21" D, 10" H. 110-120 V. 60 cy. AC. Shpg. wt. 34 lbs. Regularly was \$139.95.

Special Each..... **\$99.95**



**DIAMOND  
NEEDLE**

**SAVE \$40.00**

REGULARLY WAS \$139.95

**\$99<sup>95</sup>**

**B-A SPECIAL VALUE! COMPACT AC POWERED TAPE RECORDER**

**TRUE PRECISION QUALITY AT AMAZING LOW PRICE  
DUAL SPEED-FULL FEATURED  
USES FULL 7-INCH REEL**

What a terrific value this is! Not to be classed with other inexpensive recorders—for here is a real top quality unit with the kind of features and quality of workmanship found only in instruments costing a great deal more. Dual speed 3 3/4 and 7 1/2 ips, dual track, 7" reel capacity. Up to 4 hours recording or playback on both tracks of a 2400 ft. 1/2 mil tape, 2 hours continuous on one track. Has eye type recording level indicator, fast forward, fast rewind, lock out button to prevent accidental erase, positive in-tape spilling mechanism, simple, easy switch type function controls, no control, separate inputs for microphone, and radio, internal speaker and output for external speaker. Power output, 2 to 3 watts. Used in a sturdy wood case finished in durable black and white plastic over a thertette, richly embellished with chrome fittings. Has compartment for accessories. Professional black and chrome control panel. Size 13 x 9 3/4 x 4 1/4". Wt. 18 lbs. With miniature high quality microphone, radio patch cord, full and empty tape reels.

Special..... **\$64.95**

AT LEAST A \$99.95  
VALUE

**\$64<sup>95</sup>**

**OUTSTANDING  
TONE QUALITY**

**FREQ. RESPONSE  
100-10,000  
CPS**

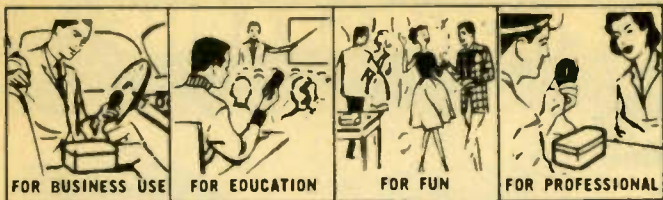


**NOTHING DOWN ON EASY TERMS**



# HIGH QUALITY PORTABLE MINIATURE RECORDERS

• TRANSISTORIZED • BATTERY-POWERED • FOR USE EVERYWHERE



**PORTABLE TAPE RECORDED SOUND AN EXCITING NEW WORLD OF INTEREST-NOW AVAILABLE TO EVERYONE AT AN UNBELIEVABLY LOW COST!**

Opens up a vast new world of possibilities for pleasure or business while on the go. Operates completely independent of any AC power source using tiny, lightweight, low-cost, self-contained batteries. Will work in any position, even while

being carried about, giving true-to-life recording and reproduction of voice and music on standard magnetic recording tape. Tapes may be played over and over again or automatically erased when a new recording is made.

## PERSONAL SIZE "MINY 401" TOP-PERFORMING IMPORT BY AMERICAN CONCERTONE



SPECIAL VALUE  
**\$49<sup>95</sup>**

REALLY  
MINIATURE  
7 1/2" X 8 X 2 1/2"  
LESS  
THAN  
4  
LBS.

## INTERNATIONALLY FAMOUS GRUNDIG Niki PORTABLE TAPE RECORDER



MFG. LIST \$99.95  
**\$69<sup>95</sup>**

SUPERB PRODUCT OF WEST GERMAN CRAFTSMEN

WEIGHS JUST 5 POUNDS

## NEW DELUXE GRUNDIG TKI ALL-TRANSISTOR RECORDER



MFG. LIST \$129.95  
**\$99<sup>95</sup>**

WITH MANY EXTRA FEATURES

Records and plays 1/2 track approximately 45 minutes on a 300 ft. 3" reel of tape (22 1/2 minutes on each track). Frequency response 200 to 6000 cps. Crystal mike is carried inside of case. Has snap-off cover concealing reels and will operate with cover closed. "Pause" button stops recording or playback when depressed. Recessed function control changes easily from "stop" to "fast rewind," "play" or "record." Has thumb operated volume control, mike jack and phone jack for monitoring while recording. Amplifier has 4 transistors plus 1 diode, push pull 150 milliwatt output stage to drive the built-in 2 1/4" PM speaker. Reproduction is clearly understandable, will fill a good sized room. Amplifier operates 100 hours on 6 inexpensive pencil batteries. Rim drive record and rewind motors operate dependably on 3 "C" size cells. Has adjustable speed compensator for long 50 hour battery life.

Attractive molded plastic 2-tone beige case has collapsible carrying handle. With crystal microphone, 200 ft. reel of tape and take-up reel.  
No. 31A70. Special Value Import, Net Each. **\$49.95**  
No. 31A71. Battery Kit, 3 "C" cells, 6 pencils. Net. **\$1.26**  
No. 31A74. Recording Monitor Earset. Net Ea. **\$1.95**

- Fabulous performance.
- Precision engineered.
- Simple to operate.

And what an eye appealing beauty! Compare these specifications. You will be amazed at the big "re-corder" features, especially when you realize the size is only 11 x 6 3/4 x 3 1/2" and that it weighs just 5 lbs. complete with batteries! Records and plays dual track at 3 3/4 ips tape speed giving approx. 30 minutes time on a 3" reel of 1/2 mil tape. Frequency response, 150-6000 cps unusually fine for a unit of this small size. Has single knob selector for off, fast rewind, playback and record; stop bar for fast start-stop control during recording or playback; push-pull 100 milliwatt output, and pleasing clear reproduction from the built-in permanent magnet speaker. Highly engineered electronic design employs 5 transistors. Tape drive mechanism is precision constructed by west German craftsmen.

The entire unit is powered by 4 standard large size flashlight cells and 2 penlight cells for low cost operation. Has jacks for external speaker and for external power from a 6 V. DC source. Shpg. wt. 6 lbs. Mfg. list \$99.95.  
No. 32A291. Net Each (Less Batteries) **\$69.95**  
No. 32A292. Set of Batteries. **.84c**

- Electronic Eye Recording Level Indicator.
- Precision Capstan Drive for constant speed.

Advanced design circuit employs 7 transistors, records wide range, 80 to 10,000 cps at 3 3/4" tape speed, dual track, 30 minutes on a 3" reel of tape (15 min. each track). Has precision Capstan drive and heavy weighted flywheel for constant speed.

Produces tapes fully compatible with other tape players. Recording level indicator assures perfect recordings every time. Has safety button to prevent accidental erose, tone control, pause bar (lock or momentary as desired) and simple, positive selector for record, fast rewind and playback. Push pull audio output produces 250 milliwatts power to drive its own internal PM speaker to full room volume. Also has privacy earphone jack for personal listening. Operates 15 hours on one set of 6 inexpensive flashlight batteries, has jack for 6 V. DC external power. In light beige streamline molded case with snap off cover. Size 11 3/4 x 7 x 4 1/2".

Wt. 8 lbs. With high quality miniature microphone, 3" reel of tape, take-up reel. **\$99.95**  
No. 30A144. Mfg. List \$129.95. Net Each. **\$99.95**  
No. 30A145. Battery Kit, 4 "D" Cells, 2 "C" cells. Net **.84c**

## WEBCOR Microcorder ALL-TRANSISTOR TAPE RECORDER

TAKE IT ANYWHERE... USE IT ANYWHERE

Think of it! A recorder you can carry with you wherever you go. Powered by just 1.9 V. and 6 inexpensive penlight batteries, this amazing unit is sturdily constructed of aluminum and weighs only 4 1/4 lbs. complete.

Simply amazing sound reproduction because of superb design and engineering. Recordings made on the "Microcorder" can be played on bigger hi-fi tape decks with excellent results.

Easy to use with push-button controls for rewind, stop, play and record. Jacks provided for microphone (included), external amplifier, external power unit and remote control. Two speeds (1 7/8 and 3 3/4 ips) dual track for up to one full hour of recording and playback on a 3" reel of 1/2 mil tape. Plays or records in any position with lid open or closed. Powerful 2 1/2 x 3 3/4" PM dynamic speaker. Has adjustable carrying strap that can be detached. Size 8" W, 8" D, 2 1/8" H. Supplied complete with microphone, batteries and instructions. Shpg. wt. 5 lbs. Import made by Webcor to bring you greater savings.  
No. 32A203. \$175.00 Mfg. List. Net Each. **\$134.50**

No. 32A209. Model A2963 Carrying Case. Net Each. **\$11.95**  
No. 32A204. Model A2965 110 V. 60 cy. AC Converter. Net Each. **\$15.95**  
No. 32A206. Model A2973 Remote Control Mike. Net Each. **\$7.95**  
No. 32A208. Model A2971 Hand Remote Control. Net Each. **\$2.95**  
No. 32A225. Model A2974 All-Purpose Cable Kit. Net Each. **\$4.75**

## WEIGHS JUST 4 1/4 POUNDS BATTERY-OPERATED With 110 V. Converter Available

SPECIAL: Insured for 1 yr. (repaired or replaced) against fire, theft, damage and most other hazards by American insurance group.

EASY TO USE WITH PUSH-BUTTON CONTROLS  
8" WIDE  
8" DEEP  
2-5/8" HIGH



MFG. LIST \$175.00  
**\$134<sup>50</sup>**

Two speeds - 1 7/8 and 3 3/4 ips for up to a full hour on a single 3" reel.



# B-A SPECIAL VALUE AMERICAN-MADE TAPE RECORDERS

## FINEST QUALITY AT LOWEST COST!

### 2-SPEED 4-TRACK

Now, get twice the recording and playing time from a single roll of tape, more than any other recorder in this price range.

4 track monaural recording provides for up to 8 full hours on 7" reel of long play (2400') tape. Perfect for home, school, church and business. All the features with finest quality construction to reproduce all sound, voice and music, with full fidelity life-like tones.

**Easy to operate** with single knob function control. Positive record safety interlock prevents accidental erasure. Straight in-line slot loading provides simple split second threading. Separate volume and full range tone controls. Recording level indicators eliminates all guess work, assures proper volume setting during recording. Push-pull speed selector knob instantly changes speed from 3 3/4 to 7 1/2 ips.

**5 watt amplifier** delivers amazing power with exceptional frequency response 100-12,000 cps. Signal to noise ratio: 42 db. Wow and flutter: less than .25% RMS. Input one dual level with a switch. Auxiliary output jack for direct connection to external speaker of users choice.

Handsome styled modern, deluxe black leatherette carrying case with contrasting satin chrome panel. Size 15 1/2 x 12 3/4 x 5". Complete with 7" reel recording tape, take-up reel and microphone. Shpg. wt. 20 lbs. **\$89.95**  
No. 31C292. Net.....

### NEW 2-SPEED 4-TRACK STEREO

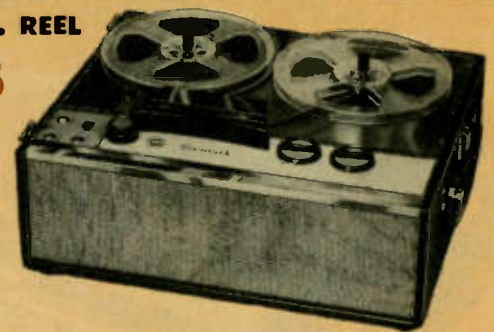
Deluxe stereo recorder—compare the features, quality, cost—No other recorder at near this low cost performs all these functions. Plays 4 track stereo recordings with the fullest fidelity. Records and plays 4 track monaural for up to 8 full hours on 7" reel of (2400') tape. Records "sound-on-sound", permits recording on one channel while listening to the other. Big 10 watts stereo power with self-contained dual channel power amplifier and preamplifier. Separate speaker system in addition to self-contained unit provides true stereo sound reproduction... nothing more needed.

**Spec.:** Freq. resp.: 100-12,000 cps. S/N: better than 42 db. Wow and flutter: less than .25% RMS. **Input:** 1 dual level with switch. **Outputs:** 2 for external speakers. Dual tone and volume controls for each channel. Single knob function control. Record safety interlock. Fast wind, fast rewind. Two speeds 7 1/2 and 3 3/4 ips. Handsome black leatherette carrying case with satin chrome panel. UL approved. Operates from 115 V, 60 cycle AC. Size 15 1/2 x 12 3/4 x 6 1/2". Shpg. wt. 25 lbs. Complete with 7" reel of tape, empty reel, microphone, and separate speaker. **\$124.95**  
No. 31C293-2. Net.....

### TAKES BIG 7-IN. REEL

# \$89<sup>95</sup>

- 4 track monaural record.
- Record 8 full hours on 7" reel.
- Single knob function control.
- Fast forward—fast rewind.
- 5 watt amplifier.



### RECORDS SOUND ON SOUND

# \$124<sup>95</sup>

- Plays 4 track stereo.
- Sound-with-sound control.
- Separate stereo speaker system.
- 10 watt stereo amplifier.

### PROFESSIONAL 4-TRACK STEREO TAPE RECORDER

One of the finest recorders we have seen for such a low price, has features usually found only in recorders selling from \$300 to \$500. Records 4 track stereo, perfect for making highest quality recordings from stereo disc, other tapes or from FM multiplex broadcasts. Plays 4 track stereo tapes with flawless perfection from two self-contained speaker systems.

"Sound-on-sound" recordings can be made with the 4 track monaural head, allows recording on one channel while listening to the other. Ideal for language study, speech improvement, music study (singing with piano etc.).

A completely self-contained stereo unit with two separate speaker systems one for each channel. Each speaker is big 5 1/2 x 7 1/2" with 3.16 oz. magnet, and 1" voice coil. Full 20 watts of stereo power, usable also for PA work. Each channel in addition has record playback preamplifier with separate push-pull bias oscillator. Full output power

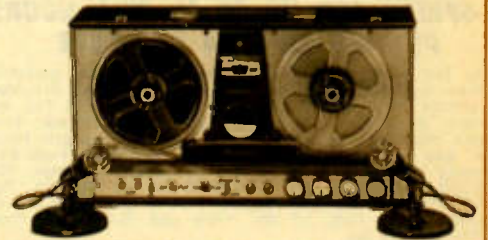
at all times even while monitoring recordings. Complete versatility of controls with separate volume, tone controls and selector switch for each channel. Designed for operation in vertical position, permits playing 7" reel with front cover closed. Other deluxe features include accurate digital tape footage counter, automatic shut-off, fast forward and rewind—less than 90 seconds on a 7" reel. Dual light recording indicators. Beautiful black leatherette carrying case with satin chrome panel.

**Specifications:** Freq. resp.: 50-15,000 cps at 7 1/2 ips; 50-10,000 cps at 3 3/4 ips. S/N: better than 48 db. **Wow and flutter:** less than 0.25% RMS. **Two speeds:** 3 3/4 and 7 1/2 ips. U/L approved. Operates from 115-125 V. 60 cycles AC. Size 20 3/4 x 11 x 7 1/2". Comes complete with 7" reel of blank tape, 7" empty take-up reel, 2 microphones for use on desk stands, with lavalier straps (furnished) or on floor stands (not furnished). **\$199.50**  
No. 31C294.....

- 4 track monaural record and play.
- Sound-on-sound recording.
- 20 watt push-pull stereo amplifier.

# \$199<sup>50</sup>

### PLAY AND RECORD 4-TRACK STEREO



## WOLLENSAK TAPE RECORDERS

### MODEL T-1500 LOW COST MONAURAL TAPE RECORDER

MFG. LIST \$199.50

# \$149<sup>50</sup>

An excellent monaural tape recorder. Provides up to 4 hours recording time on 7" reel using long play tape. Big 10 watt push-pull output is four times greater than that of ordinary recorders. Guaranteed specifications: Freq. resp. 40-15,000 cps —3 db at 7 1/2 ips; 40-8,000 cps —3 db at 3 3/4 ips. Both speeds—signal to noise ratio 48 db. Wow and flutter less than .3%. Distortion less than .8%. Operates from 110-125 V. 60 cy. AC. Shpg. wt. 27 lbs. Mfg. List \$199.50. **\$149.50**  
No. 31C281. Net.....

### MODEL T-1500-4

### 4-TRACK MONAURAL RECORD-2 & 4 TRACK STEREO/MONO PLAY

MFG. LIST \$229.50

# \$167<sup>50</sup>

Identical to Model T-1500 with exception of head configuration. Stereo head and precision track shifting mechanism enables you to play 2 and 4 track stereo tapes, while exclusive track dialing feature makes it possible to record up to four separate monophonic tracks on a single roll of tape. For stereo sound simply plug the lower stereo channel with built-in preamplifier into the input of a hi-fi system, radio, phonograph

or TV, serves as a second amplifier. speaker. Guaranteed specifications: Frequency response of both channels 30-20,000 cps ± 3 db at 7 1/2 ips (NARTB equalized). Upper channel response: 30-15,000 cps ± 3 db at 3 3/4 ips. Wow and flutter less than .3%. Signal to noise ratio greater than 48 db. Signal from preamp output .5-1.5 volts. Crosstalk 50 db. Operates from 110-115 V. 60 cy. AC. Shpg. wt. 31 lbs. Mfg. List \$229.50. **\$167.50**  
No. 31C282. Net.....

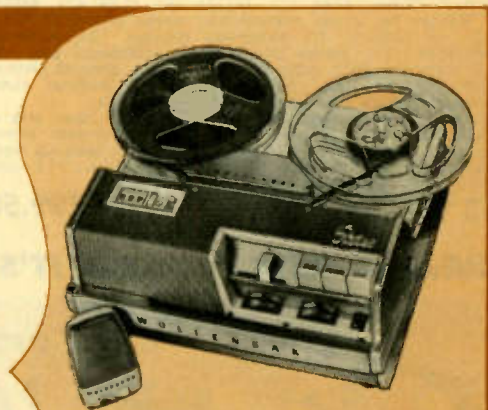
### MODEL T-1700 MOBILE TAPE RECORDER

MFG. LIST \$249.50

# \$199<sup>95</sup>

Works on 110 V. AC or 12 V. DC. Simply plugs into cigarette lighter socket on car or boat dash. The most versatile recorder yet. Big 10 watt amplifier provides ample high fidelity power for dance outings, beach parties, picnics etc. Plenty of power for external speakers. Executives, salesmen, professional people etc. save time and errors by taping reports in the car on the go. Records and plays 2 track monophonic tapes at 3 3/4 and 7 1/2

ips—up to 4 hours recording time on 7" reel of long play tape (1 1/2 mil). Guaranteed specifications: Power consumption 120 V. 60 cycle, 10 watts 12 V. DC—6.5 amp. Freq. resp. 40-15,000 cps ± 3 db at 7 1/2 ips. 40-8,000 cps ± 3 db at 3 3/4 ips. Signal to noise ratio greater than 48 db. Complete with mike, reel of tape, empty reel, battery clip and connector, lighter plug, 12 V. rubber cord. Shpg. wt. 31 lbs. Mfg. list \$249.50. **\$199.95**  
No. 31C290. Net.....



Synonymous with Quality, Ruggedness, Reliability. Most sought after recorder by American Educational Institutions. Whether for home, business, or educational use there is a Wolleensak to meet your demands. No other recorder on the market combines in one unit so many outstanding features. All units are 2 speed 3 3/4 and 7 1/2 ips, take 7" reels, have key board, push button controls with fast forward, fast rewind lever for easy, rapid operation. All-metal airplane type of construction will stand up under years of hard use. Two-level recording indicators and precision index counter on all models. All are 10 1/4 x 11 1/4 x 6 1/2", and come complete with mike, reel of tape and empty reel.



# Norelco®

## "CONTINENTAL" TAPE RECORDERS

### WORLD'S MOST ADVANCED PROFESSIONAL QUALITY RECORDERS



Dual Element  
Stereo Dynamic  
Mike Included

### CONTINENTAL 400

MFG. LIST \$399.50  
**\$299<sup>50</sup>**

**NO MONEY DOWN ON EASY TERMS**

Nothing has been spared, engineering or function wise, to provide the finest most advanced, and versatile recorders available. Whether for music lover, recordist or high fidelity user there is a Norelco "Continental" professional quality tape recorder ideally suited for every specific recording requirement.

Each is exceptional in mechanical design, electronic circuitry and construction. Made by the world's largest electronic manufacturer, Philips of the Netherlands.

Norelco "Continental" Recorders 400, 300 and 200 feature: ● Simple piano-key controls for all major functions. ● Automatic stop at end of tape. ● Modulation indicator to assure perfect recordings. ● Built-in adjustable digit program indicator. ● Fast forward and reverse. ● Sound on sound button for recording over previously recorded sound. ● Mixing facilities for recording any two sources of sound simultaneously. ● Instantaneous pause button (Continental 300 and 400 only). ● Professional quality high fidelity power amplifier and preamps for full fidelity recording... broadcast fidelity playback. ● Amazing undistorted power perfect even for PA use. ● World-famous Norelco High Fidelity Twin-Cone Speakers for superb tone quality far exceeding expectations. Handsomely styled extra sturdy carrying cases covered in scuff resistant fabric.

"300" MFG. LIST \$269.50  
**\$199<sup>50</sup>**



"200" MFG. LIST \$179.50  
**\$139<sup>50</sup>**



### CONTINENTAL "400" ALL-IN-ONE 4-TRACK STEREO/MONAUROAL RECORD & PLAYBACK RECORDER

**3-SPEEDS FOR UP TO 16 FULL HOURS  
PLAYING TIME ON ONE TAPE**

The last word in self-contained, single-case, portable stereo tape recording and playback systems. Provides a choice of 3 operating speeds—1 7/8, 3 3/4 and 7 1/2 ips—four track stereophonic recording and playback; four track monaural recording and playback. Magnetic head air gap of only .0002" assures extended high-frequency response even at slower speeds. Range 50-18,000 cps at 7 1/2 ips; 50-14,000 cps at 3 3/4 ips; 50-7,000 cps at 1 7/8 ips. Signal-to-noise ratio: 48 db or better. Cross talk: 55 db. Wow and flutter less than .15% at 7 1/2 ips.

Dual power amplifiers and preamps completely self-contained. Tubes: EF86 (2), ECC83 (3), EL84 (2), EM84. 3 inputs: for stereo microphone; stereo phono or tuner (2). 5 outputs: for extension speaker (2); external amplifier (2); stereo headphone. Additional controls: for recording only; ganged mike volume, ganged phono/radio volume. For playback only; 2 channel tone, ganged volume and ganged channel balance.

Stereo speaker system with one speaker in case, one in detachable lid with cable included for proper stereo spacing. Size 18 1/2" x 15 1/2" x 10". With take-up reel, demo tape and Norelco EL3752 stereo mike. 117 volts 60 cy. AC. Weight 43 lbs. Mfg. list \$399.50.

No. 31A254. Net Each... **\$299.50**

### CONTINENTAL "300"

### 4-TRACK MONAUROAL RECORD/ PLAYBACK & STEREO PLAYBACK RECORDER

**3-SPEEDS: 1 7/8, 3 3/4 AND 7 1/2 IPS**

All the wonderful advantages of a portable tape recorder combined with the superb precision quality and performance of a professional type tape deck. Completely self-contained with power amplifier and preamplifier for 4-track monaural record and playback. Also equipped with stereo head output for playing pre-recorded stereo tapes through external stereo system.

Recorder may also perform function of second channel if used with monaural systems. Frequency response: 50-16,000 cps at 7 1/2 ips; 60-13,000 cps at 3 3/4 ips; 60-6,500 cps at 1 7/8 ips. Wow and flutter: 0.15% at 7 1/2 ips.

Wide-range Norelco twin-cone speaker system with output jack provided for external speaker. Outputs also for stereo head (2) and headphone monitoring. Inputs for radio/phone and microphone. Tubes: EF86, ECC83, ECL82, EM81, EZ80. Size 15 3/4 x 13 x 6 3/4". With take-up reel, demo tape and high-impedance dynamic microphone. 117 volts 60 cy. AC. Shpg. wt. 30 lbs. Mfg. List \$269.50.

No. 31A215. Net Each... **\$199.50**

### CONTINENTAL "200"

### NEW... 4-TRACK STEREO PLAYBACK AND MONAUROAL RECORD/PLAYBACK RECORDER SINGLE SPEED—7 1/2 IPS

Designed specially for the discriminating audio listener and music lover on a moderate budget! Yet, despite its low price, has virtually all the operating features and superb quality of the renowned 300. Operates at one speed (7 1/2 ips) the important speed for high fidelity reproduction. Wide range frequency response 50-14,000 cps. Wow and flutter less than ±.3%. Has "Sound on Sound" and "Mixing" facilities.

Built-in power amplifier and preamplifier for 4 track monaural recording and playback. Stereo head outputs (2) for playing pre-recorded stereo tapes through external stereo hi-fi systems. May also be used with monaural systems with recorder performing function of second channel.

Norelco wide-range twin-cone speaker system with output jacks provided for external speaker and headphone monitoring. Inputs for microphone and radio/phone. Tubes: EF86, ECC83, ECL82, EM84, EZ80. Size 13 3/4 x 11 3/4 x 6 3/4".

With high quality microphone, take-up reel and demo tape. 117 volts 60 cy. AC. Shpg. wt. 18 lbs. Mfg. list \$179.50.

No. 31A223. Special Each... **\$139.50**

## BRAND NEW... AND IT'S TERRIFIC! NORELCO CONTINENTAL "100"

MFG. LIST \$129.50

**\$99<sup>50</sup>**

- Copstan-drive for constant speed 1 7/8 ips. operation.
- Norelco 4" wide range speaker for fine tone.
- Simple push-button operation.

### ● ALL TRANSISTOR ● BATTERY-OPERATED PORTABLE TAPE RECORDER ULTRA LIGHT! ULTRA RUGGED! ULTRA SIMPLE!

Can't be beat for on-the-fly, extra-fidelity recordings of interviews, inventories, lectures, musical performances, parties, nature walks, and zillions of other on-the-spot uses. Split-second recordings of any sound, any voice, anywhere, anytime. Easy to carry too! Only 8 lbs. with full complement of 6 low cost "D" cell batteries. High-impact polystyrene case takes abuse. Simple to operate with 3 push-buttons to handle all recording and playback functions. Takes both 3" and 4" reels providing up to 2 hours of recording and playback time on a single reel. Tapes compatible and fully interchangeable with constant-speed 1 7/8 ips 2-track AC recorders. Self-contained wide-range Norelco 4" speaker for really-fine tone. Freq. response 100-6000 cps. Signal-to-noise ratio better than -40 db. Has combined modulation level and battery-life indicator. Fast rewind and reverse. Input for Mike/Radio/Phone. Output for external amplifier. Size 10 1/2 x 3 3/4 x 7 1/2". Complete with high quality dynamic microphone. Shpg. wt. 8 lbs. Mfg. List \$129.50.

No. 31A227. Net Each... **\$99.50**

No. 31A228. Battery Kit... **84c**



# 4-TRACK STEREOPHONIC TAPE

**BEST SELLING SELECTIONS FROM:**

- **CAPITOL** ● **RCA** ● **BEL CANTO**
- **LONDON** ● **COLUMBIA** ● **LIBERTY**
- **KAPP** ● **DECCA** ● **AND OTHERS**

Highest quality 4-track stereo tapes for thrilling "3-D" sound—provides full frequency response, minimum background noise and virtually distortion-free reproduction. All are recorded at 7 1/2" per second and are for use on tape players or recorders using stacked (in-line) tape heads. If you are not already equipped for playing these fabulous new recordings, see pages 3C, 21, 22, 25, 94, 198 for a wide selection of tape player components and complete recorder units.

Please specify Stock No. 23C50, Manufacturer and Tape No. when ordering.  
(Example: 23C50, Decca-1, No. 8226)



## HOLLYWOOD AND BROADWAY SHOW TUNES

Title and Artist	Mfg.	Tape No.	List	Net
Oklahoma & Symphony For The Blues	Bel Canto-2	STB13	\$6.95	\$4.98
The King and I, Motion Picture Soundtrack	Cap.-4	ZW-740	7.98	6.98
Carousel, Motion Picture Soundtrack	Cap.-3	ZW-694	7.98	6.98
The Music Man, Original Broadway Cast	Cap.-7	ZO-990	8.98	7.98
My Fair Lady, Original Broadway Cast	Col.-4	QQ310	9.95	8.89
The Sound of Music, Original Broadway Cast	Col.-5	QQ311	9.95	8.89
The Glenn Miller Story, Motion Picture Soundtrack	Decca-1	8226	7.95	5.98
Eddie Duchon Story, Motion Picture Soundtrack	Decca-2	8289	7.95	5.98
Around The World In 80 Days, Original Hollywood Soundtrack	Decca-4	9046	7.95	5.98
Gigi, Original Hollywood Soundtrack	MGM-1	3641	7.95	5.98
Ben Hur, Original Hollywood Soundtrack	MGM-2	3800	7.95	5.98
Camelot, Original Broadway Cast	Col.-12	QQ344	9.95	8.89
Theme From Carnival and Other Great Broadway Hits, Mantovani	London-12	70047	6.95	5.56
Carnival, Original Broadway Cast	MGM-3	3946	7.95	5.98
The Alamo, Motion Picture Soundtrack	Col.-19	CQ393	6.95	6.19
South Pacific, Motion Picture Soundtrack	RCA-16	FTO-5001	8.95	6.66
Wildcat, Original Broadway Cast	RCA-17	FTO-5004	8.95	6.66
Exodus, Motion Picture Soundtrack	RCA-18	FTO-5007	8.95	6.66
Oklahoma, Motion Picture Soundtrack	Cap.-2	ZW-595	7.98	6.98
Can, Can, Motion Picture Soundtrack	Cap.-11	ZW-1301	7.98	6.98
Theme From The Sundowners, Billy Vaughn	Dot-2	25349	7.95	5.98
Exodus and Other Great Themes, Mantovani	London-9	70042	6.95	5.56
West Side Story, Original Broadway Cast	Col.-13	QQ345	9.95	8.89

## POPULAR VOCALISTS

Title and Artist	Mfg.	Tape No.	List	Net
Love Is The Thing, Nat King Cole	Cap.-5	ZW-824	7.98	6.98
Frank Sinatra Sings For Only The Lonely	Cap.-9	ZW-1053	7.98	6.98
Como Swings, Perry Como	RCA-1	FTP-1000	7.95	5.98
Belafonte At Carnegie Hall	RCA-19	FTO-6000	12.95	9.59
More Johnny's Greatest Hits, Johnny Mathis	Col.-1	CQ300	6.95	6.19
Gunfighter Ballads and Trail Songs, Marty Robbins	Col.-7	CQ-328	6.95	6.19
Ride This Train, Johnny Cash	Col.-15	CQ350	6.95	6.19
I'll Buy You A Star, Johnny Mathis	Col.-18	CQ386	6.95	6.19
Your Number, Please, Julie London	Liberty-3	7130	7.95	5.98
Around Midnight, Julie London	Liberty-4	7164	7.95	5.98

## VOCAL GROUPS

Title and Artist	Mfg.	Tape No.	List	Net
Fred Waring And The Pennsylvanians In Hi-Fi	Cap.-6	ZW-845	7.98	6.98
Here We Go Again, Kingston Trio	Cap.-10	ZT-1258	6.98	6.19
March Along With Mitch Miller	Col.-2	CQ306	6.95	6.19
Ink Spots Greatest Hits	Omega-1	801	4.95	3.96
Memories Sing Along With Mitch Miller	Col.-14	CQ349	6.95	6.19
Sing Along With Mitch Miller	Col.-8	CQ329	6.95	6.19
TV Sing Along With Mitch Miller	Col.-17	CQ384	6.95	6.19
The Lord's Prayer, Mormon Tabernacle Choir	Col.-6	MQ324	7.95	6.98

## INSTRUMENTAL GROUPS

Title and Artist	Mfg.	Tape No.	List	Net
Satin Brass, George Shearing Quintet	Cap.-12	ZT-1326	\$6.98	\$8.19
The Dixie Rebels, "Big Job" & His Dixie Rebels	Command-2	801	7.95	5.98
Mister Guitlar, Chet Atkins	RCA-3	FTP-1002	7.95	5.98
Cats In Stereo, Harmonicats	Merc.-2	60028	7.95	5.98
Bourbon Street, Dukes of Dixieland, Vol. 4	Aud. Fdl.-3	1860-4	8.95	6.66
Pete Fountain's New Orleans	Coral-2	57282	7.95	5.98
The Most Popular Guitar, Chet Atkins	RCA-10	FTP-1100	7.95	5.98
Chet Atkins Workshop	RCA-7	FTP-1036	7.95	5.98
The Three Suns On A Magic Carpet	RCA-8	FTP-1040	7.95	5.98
Dancing On A Cloud, The Three Suns	RCA-9	FTP-1067	7.95	5.98
Pete Fountain Day	Coral-3	57313	7.95	5.98
Mr. New Orleans Jazz Meets Mr. Honky Tonky	Coral-4	57334	7.95	5.98
Pete Fountain and "Big" Tiny Little	RCA-5	FTP-1017	7.95	5.98
Chet Atkins Teensville	RCA-6	FTP-1018	7.95	5.98
Twilight Memories, The Three Suns	RCA-6	FTP-1018	7.95	5.98

## MUSIC FOR DANCING

Title and Artist	Mfg.	Tape No.	List	Net
Mr. Music Maker, Lawrence Welk	Bel Canto-4	ST57	7.95	5.68
Billy Vaughn Plays The Million Sellers	Bel-Canto-5	STB58	7.95	5.68
Blue Hawaii, Billy Vaughn	Bel-Canto-6	STB60	7.95	5.68
Dance With Lawrence Welk	Bel-Canto-9	ST107	7.95	5.68
Berlin By Lombardo, Guy Lombardo Orchestra	Cap.-8	ZT-1019	6.98	6.19
Fabulous Thirties, David Rose (Twin-Pak)	Kapp-4	45004	11.95	9.56
Show Stoppers, In Dance Time, Frankie Carle	RCA-4	FTP-1005	7.95	5.98
Piano and Orchestra	Col.-3	CQ307	6.95	6.19
Say It With Music, Ray Conniff and Orchestra	Omega-2	4001	9.95	7.98
The Glenn Miller Sound In Stereo, Members of Original Orchestra	Omega-3	4002	9.95	7.98
Champagne Music For Dancing	Col.-11	CQ340	6.95	6.19
Young At Heart, Ray Conniff Orchestra	Dot-6	25389	7.95	5.98
Yellow Bird, Lawrence Welk	Dot-11	CQ401	6.95	6.19
Somebody Loves Me, Ray Conniff	Bel-Canto-10	ST126	6.95	4.98
Polka Extravaganza, Polkarama	Col.-10	CQ335	6.95	6.19
"S Awful Nice, Ray Conniff Orchestra	Col.-16	CQ361	6.95	6.19
Memories Are Made Of This, Ray Conniff Orch.	Dot-3	25350	7.95	5.98
Last Date, Lawrence Welk	Dot-4	25359	7.95	5.98
Calcutta, Lawrence Welk	Dot-4	25359	7.95	5.98
On Tour With The New Glenn Miller Orch.	RCA-2	FTP-1001	7.95	5.98

## BEAUTIFUL MOOD MUSIC

Title and Artist	Mfg.	Tape No.	List	Net
Hawaiian Luau, The Polynesians	Bel Canto-3	STB35	\$6.95	\$4.98
Sail Along Silvery Moon, Billy Vaughn	Bel Canto-7	STB62	7.95	5.66
Gems Forever, Mantovani	London-2	70001	6.95	5.56
Film Encores, Vol. 1 & 2, Mantovani (Twin-Pak)	London-4	70003	11.95	9.56
Songs To Remember, Mantovani	London-7	70034	6.95	5.56
Dream Time, Wayne King	Decca-3	8663	7.95	5.98
Song Hits From Theatreland, Mantovani Orchestra	London-10	70044	6.95	5.56
Italia Mia, Mantovani Orchestra	London-11	70045	6.95	5.56
Mucho Gusto! Percy Faith & Orchestra	Col.-20	CQ399	6.95	6.19
Music For Lovers Only, Jackie Gleason Orchestra	Cap.-1	ZW-352	7.98	6.98
Malaguena, Percy Faith Orchestra	Col.-9	CQ334	6.95	6.19
Look For A Star, Billy Vaughn	Dot-1	25322	7.95	5.98
Strauss Waltzes, Mantovani	London-3*	70002	6.95	5.56
Continental Encores/Waltz Encores, Mantovani	London-6	70024	11.95	9.56
Operetta Memories, Mantovani	London-8	70041	6.95	5.56
Adventures In Paradise	ABC-PAR-1	816	7.95	5.98
Orange Blossom Special and Wheels, Billy Vaughn	Dot-5	25366	7.95	5.98

## PERCUSSION AND EXOTIC SOUNDS

Title and Artist	Mfg.	Tape No.	List	Net
Exotica, Martin Denny	Liberty-1	7034	7.95	5.98
Persuasive Percussion, Terry Snyder & All Stars	Command-1	800	7.95	5.98
Provocative Percussion, Enoch Light & The Light Brigade	Command-3	806	7.95	5.98
Persuasive Percussion, Vol. 2	Command-4	808	7.95	5.98
Provocative Percussion, Vol. 2	Command-5	810	7.95	5.98
Reeds and Percussion, Command All Stars	Command-8	820	7.95	5.98
Percussion Espanol	Time-1	2006	7.95	5.98
Persuasive Percussion, Vol. 3, Command All Stars	Command-7	817	7.95	5.98
Provocative Percussion, Vol. 3, Command All Stars	Command-9	821	7.95	5.98
Quiet Village, Martin Denny	Liberty-2	7122	7.95	5.98
Victory At Sea, Robert Russell Bennett	RCA-11	FTC-2000	8.95	6.66

## ORGAN AND PIANO

Title and Artist	Mfg.	Tape No.	List	Net
Near You, Roger Williams, Pianist	Kapp-1	41002	\$7.95	\$6.36
Rhapsody In Blue, Roger Williams, Pianist	Kapp-2	41008	7.95	6.36
Fabulous Forties, Roger Williams, Pianist (Twin-Pak)	Kapp-3	45003	11.95	9.56
Honky Tonk Piano, Tiny Little	Coral-1	54049	7.95	5.98
Hymns That Live, George Wright (Organ)	HI-FI-2	714	7.95	5.98
Bach Organ Recital—Liszt Organ Recital, Karl Richter (Twin-Pak)	London-15	80067	11.95	9.56
Genius of George Wright (Organ)	HI-FI-1	713	7.95	5.98
Leon Berry At Wurliizer, Vol. 3	Aud. Fdl.-2	1844-4	8.95	6.66
Provocative Piano, Dick Hyman & Orch.	Command-6	811	7.95	5.98

## CLASSICAL

Title and Artist	Mfg.	Tape No.	List	Net
Grand Canyon Suite	Bel Canto-8	ST84	\$6.95	\$4.98
Tchaikovsky Swan Lake, Complete, Ansermet (Twin-Pak)	London-14	80028	11.95	9.56
Puccini: Madame Butterfly—Highlights	London-16	90013	7.95	6.36
Rhapsody In Blue, Fiedler-Boston Orch.	RCA-13	FTC-2004	8.95	6.66
William Tell Overture, Vienna Opera Orch.	Westminster-1	113	6.95	5.19
Wellington's Victory—Beethoven	Merc.-3	9000	7.95	5.98
London Symphony Orchestra	Merc.-4	90054	7.95	5.98
1812 Overture-Tchaikovsky/Capriccio Italien, Minneapolis Symphony Orch.	RCA-12	FTC-2001	8.95	6.66
Rachmaninoff Piano Concerto No. 3 In D Minor, Op. 30, Van Cliburn, Pianist	RCA-14	FTC-2017	8.95	6.66
Scheherazade, Rimsky-Korsakoff, Fritz Reiner, Chicago Symphony Orch.	RCA-15	FTC-2045	8.95	6.66
Galte Parisienne-Gayne Ballet Suite, Fiedler, Boston Pops	RCA-20	FTC-7000	14.95	11.95
Berlioz: Requiem, Charles Munch Conducts Boston Symphony Orchestra	London-13	80027	11.95	9.56
Tchaikovsky: Nutcracker (complete) Ansermet and Orchestra	London-17	90016	12.95	10.36
Verdi: Il Trovatore-La Forza Del Destino, Highlights-Tebaldi, Del Monaco (Twin Pak)				

## DEMONSTRATION & OTHER FAVORITES

Title and Artist	Mfg.	Tape No.	List	Net
Demo Tape	Bel Canto-1	STDX	\$3.95	\$2.99
Sousa Marches, Band of Grenadier Guards	London-5	70016	6.95	5.56
Rail Sounds—Steam Locomotives	HI-FI-3	901	7.95	5.98
Railroad Sounds	Aud-Fdl.-1	1843-4	8.95	6.66
Sound In Round, Every Kind of Sound	Concertape-1	3001	6.95	5.19
Popular Sampler, 10 Selections, 7 Labels	UST Sampler-1	401	3.95	3.19
Classical Sampler, 10 Excerpts, 6 Labels	UST Sampler-2	402	3.95	3.19
Jazz Sampler, 10 Selections, 7 Labels	UST Sampler-3	403	3.95	3.19
Sounds Sampler, 10 Selections, 7 Labels	UST Sampler-4	404	3.95	3.19
A Journey Into Stereo, Exciting Sounds	London-1	70000	6.95	5.56
A Miracle In Sound, Demonstration Tape	Merc.-1	DEMS-3	7.95	5.98



**COMPLETE WITH STEREO PREAMP**

**\$334<sup>95</sup>**



**NEW BELL PROFESSIONAL STEREO RECORDER**

From Bell, the first to make stereo home-recording possible for everyone, comes this advanced version of the popular Bell Stereo Tape Transport. Provides all of the most desirable features for tape recording and playback. Features a professional three-motor drive, with three heavy duty 4-pole motors. Wow and flutter less than 0.2% @ 7½ ips, 0.25% @ 3¾ ips. Has auto-stop mechanism, stops reels instantly when tape has "run-out." New "standby" key engages drive motor and activates main power supply ready for operation. Speed key automatically switches pre-amp record equalization for maximum response at both speeds. "Off" key disengages idler drives when power supply is turned off. Record level meters on each channel provide accurate indication of recording level and visual channel balance on playback. Positive record interlock has back lighted indicators for additional safeguard against accidental erasure. Mike inputs located on master control panel, are readily accessible regardless of how transport is mounted. Headphone monitor output jack on rear of pre-amp permits monitoring what is being recorded, direct from the record pre-amp. Specifications: Freq. resp: 18-16,500 cps ± 3 db @ 7½ ips, 18-15,000 cps ± 3 db @ 3¾ ips, (overall record-playback, 2 track and 4 track). Playback only, response extends to 20,000 cps @ 7½ ips; 16,000 cps @ 3¾ ips. Tape heads: 4 track .00017" gap width, 3.5 mv. output; 2 track, .00017" gap

width 5 mv output; (from standard test tape). Sensitivity-record: 2.5 mv (63 db gain @ 1 KC) @ mike input; 100 mv (31 db gain @ 1 KC) @ high level input (full recording level). Sensitivity-playback: 68 db gain @ 1 KC; 12 V. output (2 track), 9 V. output (4 track) from std. test tape. Distortion: less than 1% T.H.D. @ 12 V. playback output and max. record level. Noise level: 60 db below maximum output. Bias oscillator: push-pull single oscillator, 60 KC nominal, 60 db erasures of full level recording (switched for monaural or stereo operation). Signal-to-noise ratio: better than 50 db @ peak record signal reaching 3% T.H.D. Flutter: less than 0.2% @ 7½ ips; 0.25% @ 3¾ ips. Rewind and forward: average 30" per second. Tape Lifter: removes tape from heads during stand by and high speeds. Max. reel size: 7 inch. Inputs (4): 2 high impedance for microphone; 2 high impedance, high level for amplifier or tuner etc. Outputs (4): 2 high impedance to feed power amplifier; 2 high impedance for crystal headphone monitor (dual phone jack). Tubes (6): 2-12AX7, 2-12AT7, 1-12AU7, 1-EZ80/6V4. Power consumption: 56 watts @ 117 V. 60 cycles. Size 15¼" W, 13½" front to back, 5" below mtg. surface, 2" above mounting surface (includes pre-amplifier). Shpg. wt. 33 lbs. **\$334.95** No. 31A197. Each.

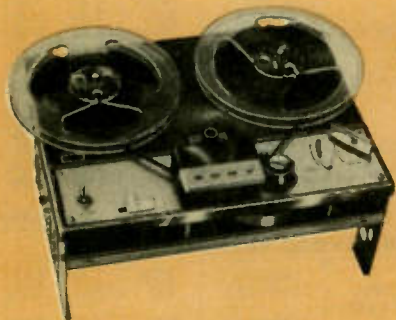
**NEW SONY MODEL 262-D STEREO TAPE DECK**

**\$89<sup>50</sup>**

**NOW ADD TAPE PLAYING TO YOUR HI-FI SYSTEM FOR LESS THAN THE COST OF A GOOD TURNTABLE**

**NOTHING DOWN ON EASY TERMS**

- Has 4 track stereo erase head and 4 track stereo record/playback head.



Heads are wired to six output and input jacks for connection to external amplifiers for playing and recording 4 track stereo.

This is the same quality mechanism used in the most expensive Sony tape recorders. Features 3¾ and 7½ ips, selectable at a twist of a knob. Smooth operating bar knob controls wind, stop, rewind with separate lever for fast forward. Separate toggle AC switch controls motor. A slide switch on panel switches jacks from record to

playback. Perfect for use as stereo tape player, feeding the tape head outputs directly into equivalent inputs on a modern preamp-amplifier or may be used for recording stereo using separate electronics.

For those desiring to build a recording amplifier bias erase oscillator a complete circuit diagram is included in the accompanying instruction book. Size 13" W x 10" D x 5¾" H. Wt. 10 lbs. Shpg. wt. 21 lbs. **\$89.50** No. 31A22. Net.

**NEW SONY SRA-2 RECORDING AMPLIFIER**

Provides complete stereo as well as monophonic recording for the Model 262-D deck. Features 2 VU meters, selector switch for stereo or channel 1 or channel 2 monophonic recording. Easily accessible microphone inputs on front panel; all

other inputs and outputs for recording and playback, mounted on rear panel. Shpg. wt 15 lbs.

**\$89.50** No. 31A163. Net Each.

**DESIGNED FOR CUSTOM INSTALLATION**



**NEW SONY 464-D STEREO RECORDER**

The new 464-D is a compact, integrated 2 speed (7½ and 3¾ ips), 4 track stereo and monophonic record/play tape unit complete with built-in record and play pre-amplifiers. Provides an excellent way to add tape to your present stereo system. Truly a quality belt-free drive mechanism. Features: sound-on-sound, and sound with sound switch, push-button mode selector for stereo or 4-track monophonic record and playback. Special compact accessory panel available, when custom mounting the 464-D, permits easy accessibility to microphone inputs and sound-on sound switching. Complete with mounting brackets. Size 13½ x 11¾" with 5" below & 2¾" above motor board. Shpg. wt. 30 lbs. **\$199.50** No. 31A164. Net Each. Remote Control Accessory Panel. Size 2¾ x 3¾". **\$10.00** No. 31A165. Net Each.

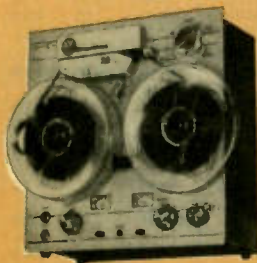
**VIKING 86 STEREO COMPACT**

**\$297<sup>50</sup>**

**NOTHING DOWN ON EASY TERMS**

**MATCHLESS COMBINATION OF THE FAMED VIKING TRANSPORT WITH A COMPLETELY NEW STEREO RECORD/PLAYBACK PREAMPLIFIER**

- This integration of heads and amplifier actually provides a recording range of 20-20,000 cps, with little roll off.



Designed with the recording of stereo FM radio broadcasts in mind, incorporates a sharp cut off filter, prevents interaction of the recording bias frequency with the 38 KC carrier frequency used in multiplex broadcasting.

Feature packed unit includes the "Erase-Protek" recording interlock; monaural-stereo selector switch; automatic equalization of recording and playback for 3¾ and 7½ ips speeds, variable playback preamplification; instantaneous selection of sound-on-sound function from front panel which permits use of this unit for language laboratory applications; equalization switch permits duplicating tapes from the tape head of another deck. Independent, calibrated VU meters, digital tape counter, and head shift control permitting playback of half-track as well as quarter-

track tapes. Dual-channel playback preamplifier equalized for 3¾ and 7½ ips. Monitoring provision directly from the tape heads. May be installed vertically or horizontally, requires only a 12½" square mounting hole. Inputs for microphones and tape head on front panel. Flutter and wow less than .2% rms. Operates from 115 volts 60 cycles AC. Shpg. wt. 25 lbs.

**Model 86RMQ** has quarter-track erase, quarter track recording (wide gap) and quarter-track playback (with shift). Records and plays quarter-track. May be used for playback or half-track tapes. **\$297.50** No. 31A195. Net Each.

**Model 86REQ**—Half-track erase, half-track recording and quarter-track playback (with shift). Records half-track, plays half or quarter-track tapes. **\$297.50** No. 31A196. Net Each.



**VIKING 76 STEREO COMPACT**

**\$199<sup>50</sup>**

**BUILT EXPRESSLY FOR RECORDING AND PLAY-BACK OF 4 TRACK STEREO TAPES**

Consists of a high quality 2 speed (3¾ and 7½ ips) tape deck complete with an integrated stereo recording amplifier. Simple, easy to operate. Independent VU meters and gain controls are provided, with a single rotary operating control for play (record), fast forward, rewind and stop. Front panel inputs for microphone or for tape head input from other decks for dubbing. Rear panel jacks for (1) high level input, (2) monitor output and (3) head output (playback). Red neon indicator on front panel is energized when selector switch is in the "record" position. Requires only 12½" square cutout for mounting. May be installed vertically or horizontally.

Specifications: Recording freq. resp. 20-18,000 cps at 7½ ips, 20-12,000 cps at 3¾ ips. Playback freq. resp. 20-18,000 cps at 7½ ips, 20-15,000 cps at 3¾ ips. Signal-to-noise ratio 55 db or better. Playback head output: 2 mv at 1 KC unequalized. Recording distortion less than ¼ of 1% at "O" VU. Tubes recording amplifier: (4) ECC83; (1) 12AU7, semi-conductor rectifier. Power consumption: 60 watts at 110-120 volts AC at 60 cps. Shpg. wt. 28 lbs. **\$199.50** No. 32B52. Net Each.



WAS \$650.00

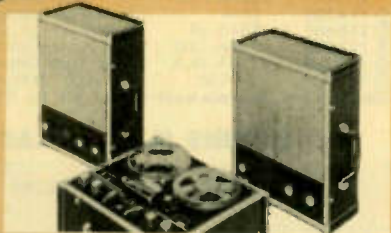
**\$495<sup>00</sup>**

- Record and Play Stereo.
- Record Sound on Sound.
- Play Both 2- and 4-Track.
- Two Speeds—7½ and 3¾ ips.
- Calibrated Tape Position Indicator, Recording Level Indicator.

**MODEL 2560 STEREO HOME MUSIC SYSTEM**

**\$849<sup>50</sup>**

WAS \$995.00



### FAMOUS AMPEX 960 STEREO TAPE RECORDER

AmpeX brings down the price on this famous professional recorder. At \$650.00 it was a best buy in a professional recorder but now at this fantastic new low price it has been put in the range of everyone.

With flawless professional quality you can make permanent recordings on magnetic tape from FM or AM radio, from TV sound, from a stereo or monaural record player, or "live" from microphones . . . and you can add "live" music or voice to any of those sources of sound. Provide as much as 4 hours and 16 minutes of 4 track stereo from a 7" standard 2400 ft. reel.

Every feature, every part, whether electronic or mechanical, has been engineered and manufactured to highest professional standards solely for optimum performance in its one specific function.

**Frequency response**, essentially distortionless from 30 to 20,000 cps at 7½ ips, 30 to 15,000 cps at 3¾ ips within ± 2 db. 50-15,000 cps at 7½ ips, 55 db dynamic range within ± 2 db. 50-10,000 cps at 3¾ ips, 50 db dynamic range. **Timing accuracy**: pitch tolerance less than 1/3 of a half-tone.

**Flutter and wow**: under 0.2% rms at 7½ ips, under 0.25% rms at 3¾ ips. **Heads**: ultra precision made. Ground to optical flatness to minimize effects of head wear. Alignment of stereo head gaps held to less than 10 millionths of an inch. Head gap width 90 millionths ± 5 millionths of an inch.

**Record inputs**: for each channel; high impedance line (radio/TV/phono/auxiliary) 0.3 V rms for program level; high impedance microphone.

Rugged scuff-proof carrying case in two-tone grey with satin aluminum trim. Case size 9" D. 15" W. 17½" L. Wt. 36 lbs.

No. 40A203. Net Each. **\$495.00**

**Model 952, as above but less carrying case** for custom installations. Unmounted size 13"x15"x6½" below top plate, 1¾" above. Shpg. wt. 36 lbs.

No. 40A372. Net Each. **\$449.50**

### MODEL 2560 STEREO PORTABLE HOME MUSIC SYSTEM

The 960 recorder/reproducer in portable case described above with two amplifier/speaker transducers . . . integrated into a system with tremendously exciting stereophonic capabilities. All necessary operating controls are on the recorder itself. Matched three-piece portability makes it equally at home on the patio, in the rumpus room, college dorm, church social, etc. Plugs in anywhere—cords and cables are self-contained. Transducers deliver an effective 20 watts of audio power (peak power output 40 watts). In identical luggage units, size and finish as above, Transducers weigh 31 lbs. Total system weight 98 lbs.

No. 40A216. Net Each. **\$849.50**

### WEBCOR REGENT CORONET STEREO HIGH FIDELITY TAPE DECK

Now you can actually make and playback four-track stereo recordings . . . and with a simple turn of the switch make the finest monaural recordings. Playback and record preamplifier provides the finest fidelity possible. Big new feature is the synchro-track which permits listening to one track and recording a second track simultaneously. An ideal educational aid especially in the field of languages. New slide projector jack also permits synchronizing unit with slides being shown.

**Specifications**: Model 2250: Freq. resp. normal voice frequency at 1¾ ips; 50 to 7,000 cps ± 2 db at 3¾ ips; 40 to 14,000 cps ± 3 db at 7½ ips. Two preamplifiers:

pre-amplifiers built-in for each channel.

Cathode follower output for each channel.

Output from "O" level recording -2 volts.

Wow and flutter: 0.2% at 7½ ips. Signal to noise ratio: better than 50 db per chan-

nel. Tubes: 6 including dual selenium rectifier; DC filaments—1st and 2nd stages.

**Power requirements**: 117 volts; 60 cycles AC; 90 watts. **Special features**: two or four track stereo record and playback. 4 pole, heavy duty electronically balanced motor. Three speeds. Belt driven tape transport. Professional type editing key.

**Record safety lock**. Automatic shut-off of amplifier and recorder mechanism. VU meter indicates correct recording level for each channel. Monitor-volume control. Numerical type tape counter. Individual volume controls. "Dual-gang" bass and treble controls. Function switch. 2 microphone inputs plus 2 hi-level input jacks, Ch. 1 and Ch. 2; 2 ext. amp. output jacks. One slide projector jack. Dimensions 7½" H x 15" W x 15" D. Mounting centers: 14¼" W, 12½" D. Shpg. wt. 26 lbs.

No. 31A200. Net Each. **\$219.95**

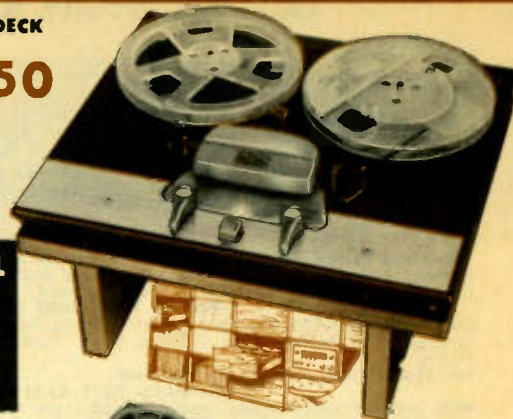
MODEL 934 TAPE DECK

**\$199<sup>50</sup>**

**NOTHING DOWN ON EASY TERMS**

**ADD PROFESSIONAL QUALITY TAPE PLAYER TO YOUR HI-FI AT LOWEST COST YET!**

**MEETS THE SAME STANDARD OF PRECISION EXISTING IN AMPEX STUDIO EQUIPMENT**



**MODEL 936 WITH BUILT-IN PREAMPLIFIER**

**\$249<sup>50</sup>**

### AMPEX MODEL 934 TAPE DECK

Now by AmpeX world leader in magnetic recording and reproduction . . . tape players that concentrate on bringing you the finest possible reproduction of the wonderful world of music. Plays 2 and 4 track stereo tapes as well as monophonic tapes . . . at 3¾ and 7½ ips. Takes all size reels up to a maximum of 7". Handles all tape thickness, standard, long-play and extra long-play. Flutter and wow: under .25% rms at 7½ ips. Special, 2 channel playback head has built-in positive shift control accommodating either 4 track or 2 track tapes. Manufactured to the same standards of precision that exists in AmpeX broadcast and recording studio equipment. Surfaces are lapped flat within 10 millionths of an inch, resulting in uniform performance characteristics throughout the life of the head. Head gap length: 90 millionths of an inch. Rewind time only 90 seconds for 1200 foot reel.

**Model 934** has connections for feeding output from each channel of the playback head to an external preamplifier. Controls are fast wind (either direction), stop button, (Disengages capstan, stops tape motion in playing or fast rewind functions), play control-tape speed selector, head shift lever, and automatic stop. Size 15" x 13" x 6½" (below deck). Shpg. wt. 32 lbs.

No. 40A204. **\$199.50**

**Model 936** as above with built-in preamplifier for amplifying and equalizing the signal to a level adequate to feed common power amplifiers and audio control centers. Output connections should connect to "tape input" or "auxiliary input" on amplifier.

**Playback output**: approximately 0.75 volts rms from tapes recorded at maximum normal recording level. Features cathode follower output for maximum flexibility in connecting to other components. Playback response: essentially flat throughout the audio range with extremely low background noise level. Dynamic range as follows: 7½ ips ± 2 db from 50 to 15,000 cps; 3¾ ips ± 2 db from 50 to 8,000 cps. Operating controls: volume control, fast wind (winds tape in either direction), stop button (disengages capstan, stops tape motion in playing or fast rewind functions), play control, on-off control, tape speed selectors, and automatic stop. Size 15" W. 13" D, 6½" (below panel). Shpg. wt. 30 lbs.

No. 40A206. **\$249.50**

### IN STOCK IN BA'S KANSAS CITY WAREHOUSE AMPEX PROFESSIONAL RECORDING EQUIPMENT

The famous Model 300 Series Master Recorder, Model 351 Series Recorder, New 354 Professional Recorder for either stereophonic or monophonic recording, and 3200 Series high speed duplicators.

All Models Available in Rack Mounting, Portable or Console.

AT FACTORY NET PRICES—WRITE US TODAY.

Also complete line of replacement parts.

All Inquiries answered by B-A's AmpeX Factory Trained Specialist.

**MOST ADVANCED TAPE DECK YET**

**NEW MODEL 2250 WITH SYNCHRO TRACK**

**\$219<sup>95</sup>**

- Record and Play Stereo.
- Record Sound on Sound.
- Play Both 2- and 4-Track.





# HANDY TAPE RECORDING ACCESSORIES

## TAPE ACCESSORY KITS



Everything needed for proper care of the recorder and tapes. Adds greatly to the pleasure and convenience of making, editing and playing tape recordings and assures maximum performance of the equipment.

### ① DELUXE TAPE KARE KIT

Contains Gibson Girl, Standard Splicer, Splicing Tape, Fast Tape Threader, Recording Head Cleaner, Tape Cleaning Cloth, Tape Clips, Reel Labels and Tape Editing Book. No. 11A767. Mfg. list \$12.00. Net Each..... **\$7.95**

### ② STANDARD TAPE KARE KIT

With hobbyist Splicer using unique curved blade for proper Gibson Girl Splice, Tape Cleaning Cloth, Splicing Tape, Tape Clips and Tape Editing Book. No. 11B405. Mfg. list \$3.50. Net Each..... **\$2.10**

### ③ TAPE KARE CLEANER KIT

Effective cleaner-solvent for removing accumulated oxides from recorder heads plus a cleaning "jockey cloth" for wiping grime from tapes. No. 11B406. Mfg. list \$2.00. Net Each..... **\$1.20**

## NEW TAPE STROBE KIT

Accurate, easy way to check tape speed. Consists of a length of Mylar leader marked off like a record turntable strobe disc. Small AC operated glow lamp illuminates tape, "stops" marks on leader to show too fast, too slow or proper tape travel. Mfg. list \$2.00. No. 11B408. Net Each..... **\$1.20**

## ROBINS HEAD DEMAGNETIZER

For eliminating one major cause of high noise level in many tape recorders... the accumulation of permanent magnetism in the recording, erase and playback heads. Simple to use. Operates on 115V. 60 cy. AC. UL listed. Shpg. wt. 1 lb. Mfg. list \$10.00. No. 11A794. Model HD-6. Net Each. **\$7.35**

## WALSCO "KLEEN-TAPE"

Cleans recording heads as easy as playing a roll of tape. Consists of 100 ft. of super tough 1/4" tape especially impregnated with Walasco head cleaner, wound on 5" plastic reel. Running "Kleen-Tape" through your tape recorder at normal playback speed cleans all harmful residue from face of recording head, insuring clean, distortion-free recordings and playbacks. Can be used again and again. No. 11A614. Mfg. list \$2.95. Net Each..... **\$2.06**

## ROBINS "GIBSON GIRL" TAPE SPLICERS



Makes diagonal mitre cut and slightly curved trim cut. Splicing tape adhesive stays off recorder heads and next layer of tape. SP-4 can be hand held or attached to recorder. TS4A splicers are faster, take only 5 seconds. They need remove only 1/4" of recording and have advantage of replaceable cutters. SP-4 and JR hold tape in guide by friction; others have clamps. A plastic dust cover is supplied with STD and DLX models.

St. No.	Robins No.	Description	List	Net Each
① 11A703	SP-4	Semi-Professional	\$3.50	\$2.57
② 11B407	TS4A-JR	Handy small size	6.50	4.78
③ 11A638	TS4A-STD	Fast Professional	8.50	6.25
④ 11A704	TS4A-DLX	With Tape Dispenser	11.50	8.46
⑤ 11A705	ST-500	1/2"-100" Splicing Tape	.50	.36
No. 11A706. Replacement Cutter Kit for TS4A Splicers. Each.....			94c	

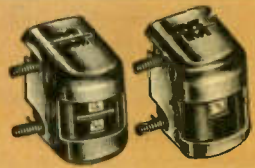
## ROBINS M/M REPLACEMENT HEADS

### MICHIGAN MAGNETICS RECORDING AND ERASE HEADS

- Convert to Stereo
- Upgrade old equipment
- Replace worn heads
- Build special equipment

B-A can supply them all. State make and model of recorder, allow two weeks delivery.

FREE REFERENCE GUIDE. Covers 25% of all popular recorders. No. 25A122. Ask For It.



### CONVERT FROM 2 TO 4 TRACK STEREO PLAY

Robins M/M 5Q17 head. Makes conversion a matter of merely changing heads. Engineered for optimum performance at 3 3/4 ips. Fits Pentron NL1S, NL2S, NL3S, PT1, PT-72S, PT-74S; VM 700, 711, 711A, 750, 720, 755, 1000; most models of Wilcox Gay Recordio and many Ampro, Bell, RCA, Silvertone and Telectro recorders. No. 11A771. Type 5Q17. Mfg. list \$30.00. Net Each..... **\$22.05**

## BULK TAPE ERASER

Removes recorded and unwanted signals from entire reel of tape in just seconds. Reduces background noise levels from 3 to 6 db. below normal recorder erase head level. For any size reel including 10 1/2" and tape up to 1 1/2" wide. Size 3 3/4 x 5 1/4 x 6 3/4". Operates on 110-120 V. AC. UL listed. Wt. 9 lbs.

11B409. ME99. Mfg. list \$33.00. Net Each..... **\$24.25**



Recording Head Cleaner



Tape Cleaning Cloth



Fast Tape Threader



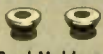
Reel Clips



Cueing Labels



Reel Labels



Reel Holders



Splicing Tape



Colored Leader



Empty Reels In Mailers



Plastic Storage Can

RECORDING HEAD CLEANER. Dissolves accumulated oxides. No. 11A768. Type HC-2. Mfrs. list \$1.00. Net Each..... **73c**

JOCKEY CLEANING CLOTH. Treated to wipe grime from tape. No. 11A769. Type JCT-2. Mfrs. list \$1.00. Net Each..... **73c**

FAST TAPE THREADER. Short-cuts starting tape on reel. No. 11A587. Type TT-1. Mfrs. list \$1.00. Net Each..... **73c**

REEL CLIPS. Holds end of tape as illustrated or at side of reel. No. 11A707. Type TC-12. Box of 12, Per Box..... **30c**

CUEING LABELS. Color coded, numbered, adhesive backed. No. 11A709. With separate index. Pkg. of 30, Per Pkg..... **97c**

REEL LABELS. Adhesive backed. Write on or type identification. No. 11A770. Type SL-30. Pkg. 30, Per Pkg..... **34c**

REEL HOLDERS. Prevents wobble. Holds reel on spindle. No. 17A737. Rubber molded for firm grip. Per Pair..... **49c**

SPLICING TAPE. 1/2"x100". Super strong Mylar. No. 11A705. Type ST500. Does not bleed. Net Each..... **36c**

COLORLED MYLAR LEADER. 1/4"x150'. Protects and Identifies. No. 11B315. Choice of Blue, Gold, Red or White. Net Each..... **\$1.10**

EMPTY REELS IN MAILERS. Highest quality plastic. Popular sizes for recorded "letters", reports. In mailing box.

No. 11B383. 3"-150" size. Net Each..... **17c** 12 @ Each..... **15c**

No. 11B318. 4"-300" size. Net Each..... **37c** 12 @ Each..... **33c**

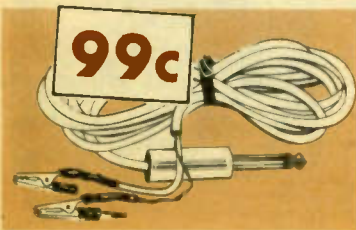
PLASTIC 5"-7" REEL STORAGE CAN. Dust-proof protection. Interlocking flanges. Easier to open than metal cans. Grooved for horizontal stacking. No. 11A772. One size for all. Net Each..... **39c** 12 @ Each..... **36c**

## SHIELDED RECORDER AUDIO PATCH CORD

WOULD USUALLY COST OVER DOUBLE

Highest quality shielded 71" microphone type cable with standard phone plug one end and miniature alligator clips with insulators on other end. Vastly superior for connecting recorder input to radio, phono, or TV speaker voice coil. Also can't be beat for hundreds of quick hook-ups in experimental audio applications.

No. 17A324. 10 Lots **99c** Each... **90c** Special Each



## TAPE STORAGE STEEL CHEST AND REEL CANS

- Portable
- All Steel
- Platinum-gray baked enamel

For protecting, storing and filing valuable recorded tapes. Dividers for holding 12 tape cans, index-card. Wt. 5 lbs. **\$2.97**

11A754. Chest only, for 7" cans..... **\$2.97**

11A753. Chest only, for 5" cans. Ea..... **\$2.48**

### STEEL TAPE REEL CANS

Dust-proof, magnetic-proof containers to fit above chest as illus. Shpg. wt. 8 oz

11A752. For 7" Reel. Ea..... **56c** 6 Ea..... **49c**

11A751. For 5" Reel. Ea..... **56c** 6 Ea..... **49c**





# MAGNETIC SOUND RECORDING TAPE



## REEVES SOUNDRAFT RECORDING TAPE

**"STANDARD" SERIES TAPE—1½ MIL ACETATE.** With the new FA-4 frequency adjusted formulation. Provides superlative reproduction, even at slower tape speeds. On plastic reels except 10½", aluminum.

Stk. No.	Fact. No.	Reel Length	Wt.	Mfg. List Each	Quantity Price
11A782	S-1	3" 150'	2 oz.	\$0.65	<b>\$0.43</b> 10 @ Ea. . . . . <b>\$0.39</b>
11A783	S-6	5" 600'	6 oz.	2.10	<b>1.40</b> 10 @ Ea. . . . . <b>1.28</b>
11A784	S-12	7" 1200'	12 oz.	3.50	<b>2.33</b> 10 @ Ea. . . . . <b>2.10</b>
11A785	S-24RM	10½" 2400'	34 oz.	8.50	<b>5.67</b> 5 @ Ea. . . . . <b>5.10</b>

**"LIFETIME" SERIES TAPE—1½ MIL MYLAR.** With superior FA-4 formulation, super strength and dimensional stability. Recommended for recordings to be played repeatedly or for documentary recordings to be kept through the years. Reels are plastic except 10½" RM, Aluminum; RF, fibre glass.

Stk. No.	Fact. No.	Reel Length	Wt.	Mfg. List Each	Quantity Price
11A786	L-6	5" 600'	6 oz.	\$2.65	<b>\$1.77</b> 10 @ Ea. . . . . <b>\$1.59</b>
11A787	L-12	7" 1200'	12 oz.	4.25	<b>2.83</b> 10 @ Ea. . . . . <b>2.55</b>
11A801	L-24RM	10½" 2400'	34 oz.	10.40	<b>6.94</b> 5 @ Ea. . . . . <b>6.24</b>
11B317	L24RF3	10½" 2400'	34 oz.	10.40	<b>6.94</b> 5 @ Ea. . . . . <b>6.24</b>

**"PLUS-50" SERIES TAPE—1 MIL MYLAR.** 50% greater time on same reel size, extra strong compared to plastic base 1 mil tapes plus exclusive Soundcraft FA-4 formulation.

Stk. No.	Fact. No.	Reel Length	Wt.	Mfg. List Each	Quantity Price
11A788	PL-9	5" 900'	6 oz.	\$3.40	<b>\$2.27</b> 10 @ Ea. . . . . <b>\$2.04</b>
11A789	PL-18	7" 1800'	12 oz.	5.80	<b>3.87</b> 10 @ Ea. . . . . <b>3.48</b>
11A790	PL-36RM	10½" 3600'	34 oz.	13.75	<b>9.17</b> 5 @ Ea. . . . . <b>8.25</b>

**"PLUS-100X" SERIES TAPE—½ MIL TENSILIZED MYLAR.** 100% greater time on same reel size. Precision coated with new FA-4 formulation. 5¾" fits foreign recorders.

Stk. No.	Fact. No.	Reel Length	Wt.	Mfg. List Each	Quantity Price
11A791	XP-12X	5" 1200'	6 oz.	\$5.45	<b>\$3.83</b> 10 @ Ea. . . . . <b>\$3.27</b>
11A792	XP-18X	5¾" 1800'	9 oz.	7.48	<b>4.99</b> 10 @ Ea. . . . . <b>4.49</b>
11A793	XP-24X	7" 2400'	12 oz.	9.50	<b>6.33</b> 10 @ Ea. . . . . <b>5.70</b>

## RCA "VIBRANT" SERIES TAPE

Money saving, full quality tape for flawless recordings. Gives true response, uniform output, minimizes recorder head wear and tape noise—high-fidelity performance that is readily discernible from the very first recording. On easy-load plastic reel.

Stk. No.	RCA No.	Description	Mfr's. List Each	24 Lots Each
11B550	703C1	5" Reel 900 Ft. 1 Mil Acetate Base	\$2.50	\$1.65 \$1.50
11B565	704C1	7" Reel 1800 Ft. 1 Mil Acetate Base	4.25	2.80 2.55
11B566	701C1	5" Reel 600 Ft. 1.5 Mil Acetate Base	1.75	1.15 1.05
11B588	702C1	7" Reel 1200 Ft. 1.5 Mil Acetate Base	2.95	1.95 1.75

## RCA RED SEAL SERIES TAPE

Finest, full-frequency, high fidelity professional tape. A superlative product, produced by the most advanced techniques yet conservatively priced and available for home use. Same as used in recording RCA Victor record albums and pre-recorded tapes. On easy-load plastic reels.

Stk. No.	RCA No.	Description	Mfg. List Each	12 Lots Each
11A725	15A-1.5	3" Reel 150 Ft. 1.5 Mil Acetate Base	\$0.70	\$0.47 \$0.42
11A726	15A-6	5" Reel 600 Ft. 1.5 Mil Acetate Base	2.25	1.50 1.35
11A727	15A-12	7" Reel 1200 Ft. 1.5 Mil Acetate Base	3.50	2.34 2.10
11B591	10M9	5" Reel 900 Ft. 1 Mil Mylar Base	3.60	2.40 2.16
11B595	10M18	7" Reel 1800 Ft. 1 Mil Mylar Base	6.20	4.13 3.72
11A598	5TM3	3" Reel 300 Ft. ½ Mil Tensitized Mylar	1.60	1.07 .96
11A599	5TM6	4" Reel 600 Ft. ½ Mil Tensitized Mylar	3.05	2.03 1.83
11B608	5TM12	5" Reel 1200 Ft. ½ Mil Tensitized Mylar	4.75	3.17 2.85
11B609	5TM24	7" Reel 2400 Ft. ½ Mil Tensitized Mylar	8.75	5.83 5.25

## "SCOTCH" BRAND SOUND TAPE CARTRIDGE



**QUICK LOADING . . . SNAPS IN  
NO TAPE THREADING  
FITS ALL RCA AND BELL  
CARTRIDGE TYPE RECORDERS**

• 2 Full Hours 4 Track Record or Play

Contains 560 ft. of specially processed Scotch 150 tape on 1 mil Mylar base. Has maximum frequency response 2 to 4 db. greater than other tapes at slow speeds. Very long lasting, silicone dry lubricated.

Recording tape is completely inside plastic enclosure, protected from dirt and handling, yet may be edited and spliced in the usual manner, without removing the cover. May be recorded over and over again. Special lock-out feature prevents accidental erase. Cartridge size 7½x5½". Wt. ½ lb. No. 11B619. Type 8000. Mfg. list \$4.50. Net Ea. . . **\$3.00** 12 @ Ea. . . **\$2.70**

## MINNESOTA MINING "SCOTCH" BRAND TAPE

**TYPE 111 STANDARD TAPE—1½ MIL ACETATE.** All-purpose, first-choice of most engineers and recording fans for flawless sound reproduction. On easy threading plastic reels. 10½" reel is aluminum.

Stk. No.	Fact. No.	Reel Length	Wt.	Mfg. List Each	Quantity Price
11A551	111-1.5	3" 150'	2 oz.	\$0.70	<b>\$0.47</b> 12 @ Ea. . . . . <b>\$0.42</b>
11A552	111-3	4" 300'	4 oz.	1.35	<b>.90</b> 12 @ Ea. . . . . <b>.81</b>
11A554	111-6	5" 600'	6 oz.	2.25	<b>1.50</b> 12 @ Ea. . . . . <b>1.35</b>
11A559	111-12	7" 1200'	12 oz.	3.50	<b>2.34</b> 12 @ Ea. . . . . <b>2.10</b>
11A776	111-24R	10½" 2400'	34 oz.	10.90	<b>7.27</b> 12 @ Ea. . . . . <b>6.54</b>

**TYPE 120 GREEN "HIGH OUTPUT" TAPE—½ MIL ACETATE.** Produces 133% more output resulting in greater dynamic range, freedom from distortion or signal peaks . . . brilliant sound reproduction. A must for hi-fi fans.

Stk. No.	Fact. No.	Reel Length	Wt.	Mfg. List Each	Quantity Price
11A556	120-6	5" 600'	6 Oz.	\$2.25	<b>\$1.50</b> 12 @ Ea. . . . . <b>\$1.36</b>
11A562	120-12	7" 1200'	12 Oz.	3.50	<b>2.34</b> 12 @ Ea. . . . . <b>2.10</b>

**NEW TYPE 311 "TENZAR"—½ MIL BASE.** Developed especially for heavy duty uses. Extra tough, tear-resistant, stretch-resistant, non-drying. Perfect for all-weather use and long time storage. On standard plastic reels.

Stk. No.	Fact. No.	Reel Length	Wt.	Mfg. List Each	Quantity Price
11A755	311-6	5" 600'	6 oz.	\$2.40	<b>\$1.60</b> 12 @ Ea. . . . . <b>\$1.44</b>
11A756	311-12	7" 1200'	12 oz.	3.75	<b>2.60</b> 12 @ Ea. . . . . <b>2.25</b>

**TYPE 190 EXTRA PLAY TAPE—1 MIL ACETATE.** Gives 50% greater time than 1½ mil tapes on same reel size. On plastic reels except 10½" aluminum, NAB type.

Stk. No.	Fact. No.	Reel Length	Wt.	Mfg. List Each	Quantity Price
11A567	190-9	5" 900'	6 oz.	\$3.50	<b>\$2.34</b> 12 @ Ea. . . . . <b>\$2.10</b>
11A568	190-18	7" 1800'	12 oz.	5.50	<b>3.67</b> 12 @ Ea. . . . . <b>3.30</b>
11A569	190-36R	10½" 3600'	34 oz.	12.85	<b>8.57</b> 6 @ Ea. . . . . <b>7.71</b>

**TYPE 150 EXTRA PLAY TAPE—1 MIL MYLAR.** Extra strong, extra long lasting Dupont Mylar base withstands extremes of temperature and humidity. Especially recommended for home or business recordings to be kept over the years. Same size reel plays 50% longer than 1½ mil base tapes.

Stk. No.	Fact. No.	Reel Length	Wt.	Mfg. List Each	Quantity Price
11A777	150-2.25	3" 225'	2 oz.	\$1.00	<b>\$0.67</b> 12 @ Ea. . . . . <b>\$0.60</b>
11A544	150-9	5" 900'	6 oz.	3.60	<b>2.40</b> 12 @ Ea. . . . . <b>2.16</b>
11A545	150-18	7" 1800'	12 oz.	6.20	<b>4.13</b> 12 @ Ea. . . . . <b>3.72</b>

**TYPE 200 DOUBLE PLAY—½ MIL TENSILIZED MYLAR.** New "tensitized" polyester (specially conditioned tough Dupont Mylar) makes tape twice as strong as before. Works on all machines. Doubles recording-playing time compared to 1½ mil tapes on same reel size. 200-48R is plastic EIA reel.

Stk. No.	Fact. No.	Reel Length	Wt.	Mfg. List Each	Quantity Price
11B636	200-3	3" 300'	2 oz.	\$1.60	<b>\$1.07</b> 12 @ Ea. . . . . <b>\$0.96</b>
11A778	200-12	5" 1200'	6 oz.	5.45	<b>3.63</b> 12 @ Ea. . . . . <b>3.27</b>
11B594	200-24	7" 2400'	12 oz.	9.50	<b>6.33</b> 12 @ Ea. . . . . <b>5.70</b>
11B564	200-48RPS	10½" 4800'	34 oz.	22.00	<b>14.67</b> 12 @ Ea. . . . . <b>13.20</b>

**TYPE 151 SPECIAL LUBRICATED—1 MIL MYLAR.** For repeater mechanisms and cartridge tape players, like Cousino, Viking and Fidelipak. Has dark red oxide with black surface lubrication on backing surface only.

No. 11A779. Type 151-17PR. ¼"x1700", 7" Reel. Net Ea. . . . . **\$7.07**  
12 @ Ea. . . . . **\$6.36**



## ① EMPTY CLEAR PLASTIC TAPE REELS IN SCOTCH BOXES

Capacity rating is for standard 1½ mil base tape.

Stk. No.	Size	Capacity	Weight	Each	Quantity Price
11A570	3"	150'	2 oz.	<b>\$0.18</b>	12 @ Ea. . . . . <b>\$0.17</b>
11A571	4"	300'	3 oz.	<b>.39</b>	12 @ Ea. . . . . <b>.37</b>
11A572	5"	600'	4 oz.	<b>.48</b>	12 @ Ea. . . . . <b>.44</b>
11B316	5¾"	900'	5 oz.	<b>.49</b>	12 @ Ea. . . . . <b>.47</b>
11A573	7"	1200'	5 oz.	<b>.55</b>	12 @ Ea. . . . . <b>.50</b>

## TRUE-RUNNING 10½" REELS WITH BOXES

11A603.	Aluminum NAB Type with Flanges. . . . .	<b>\$3.00</b>	12 @ Ea.	<b>\$2.70</b>
11A549.	Plastic EIA Type (with 3 holes) . . . . .	<b>3.00</b>	12 @ Ea.	<b>2.70</b>

## ② PLASTIC LEADER AND TIMING TAPE

For splicing onto ends of recorded tapes to prevent repeated breakage; or between selections for identification and timing. White. Write-on type. No. 11A578. Type 43P-1.5. ¼"x150 Ft. Each. . . . . **60c** 12 @ Each. . . **54c**

## ③ SCOTCH TYPE 41 SPLICING TAPE

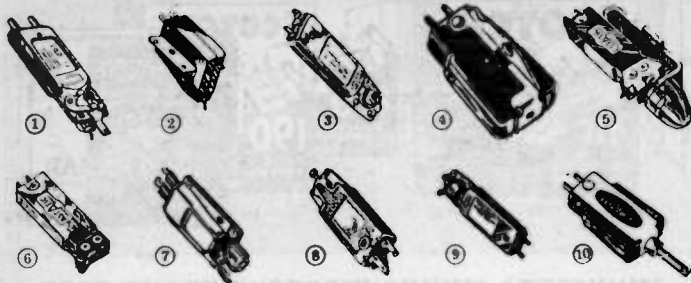
Specially compounded, non-oozing. ⅜" is applied lengthwise, others cross-wise, then trimmed.

No. 11A575.	⅜" x 66 Ft. on roll. Each. . . . .	<b>57c</b>	12 @	<b>Each. 52c</b>
No. 11A576.	½" x 150' on dispenser. Each. . . . .	<b>39c</b>	12 @	<b>Each. 35c</b>
No. 11A780.	½" x 66 Ft. on roll. Each. . . . .	<b>76c</b>	12 @	<b>Each. 69c</b>
No. 11A618.	¾" x 66 Ft. on roll. Each. . . . .	<b>\$1.01</b>	12 @	<b>Each. 91c</b>



# Phono Pick-up Cartridges

## ASTATIC PICK-UP CARTRIDGES



A wide selection of high quality cartridges designed for easy replacement of 90% of all makes. Crystal units are Rochelle-salt type especially treated to resist heat and humidity. Turnover cartridges have 1 mil and 3 mil sapphire needles included, AG and MG single needle types have 2 mil and 1 mil respectively. 78 RPM cartridges are less needle. Any standard thumb-screw type needle will fit as listed on opposite page. Average shpg. wt. 4 oz.

### TURNOVER TWO-NEEDLE CARTRIDGES

Stock No.	Cartridge No.	Illus. No.	Needle Pressure	Output Voltage	Response CPS	Element	Mfg. List	Net Each
14B551	40TB	5	6 Gr.	1.0	50-6000	Crystal	\$8.45	<b>\$4.97</b>
14B550	62TY	1	8 Gr.	1.0	50-7000	Crystal	7.95	<b>4.67</b>
14B587	66TY	1	10 Gr.	3.0	50-5000	Crystal	6.50	<b>3.02</b>
14B542	420-TS	10	8 Gr.	3.0	30-11,000	Crystal	5.45	<b>3.20</b>

### ALL-GROOVE SINGLE-NEEDLE CARTRIDGES

14B528	28*	8	12 Gr.	3.5	50-6500	Crystal	\$3.95	<b>\$2.32</b>
14B548	40-2	6	6 Gr.	1.0	50-10,000	Crystal	6.50	<b>3.82</b>
14B533	51-2	2	8 Gr.	0.7	30-10,000	Ceramic	4.40	<b>4.35</b>
14B584	66-2	9	10 Gr.	3.0	50-5000	Crystal	7.95	<b>2.91</b>
14B549	416-2	4	10 Gr.	0.75	30-13,000	Crystal	5.45	<b>3.20</b>

### STANDARD SINGLE NEEDLE CARTRIDGES

14B521	4*	8	2 3/4 Oz.	1.4	50-4500	Crystal	4.45	<b>2.62</b>
14B547	12*	3	1 Oz.	4.0	50-5000	Crystal	4.45	<b>2.62</b>
14B546	12U*	3	1 Oz.	4.0-1.25	50-5000	Crystal	4.95	<b>2.91</b>
14A556	24*	8	1 1/4 Oz.	1.0	50-4000	Crystal	4.95	<b>2.91</b>
14A559	26*	8	1 1/4 Gr.	3.5	50-4000	Crystal	4.95	<b>2.91</b>

### MICRO-GROOVE SINGLE NEEDLE CARTRIDGE

14B541	408†	7	10 Gr.	0.8	50-6000	Crystal	4.45	<b>2.62</b>
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\*Less needle, any standard needle will fit.

†Exact replacement for RCA "45".

## ASTATIC "SOUND-FLO" STEREO-MONAUURAL CARTRIDGES



Popular plug-in type cartridges used as original equipment in thousands of phonographs. Has highly sensitive ceramic element for clear wide-range response. Movement is precision engineered for high compliance, excellent transient response, and low distortion. 13T Series are stereo, 81T monaural. 13AT is same as 13T except has wider range and higher compliance.

Stk. No.	Type	Fig.	Response Cps	Needle Tip	Output Volts	Stylus Pressure	Mfg. List	Net Each
14A565	13T	(1)	20-15,000	.75-S3	.5 V.	5 Gr.	\$6.95	<b>\$4.09</b>
60A73	13TX	(1)	20-15,000	.7D-3S	.5 V.	5 Gr.	10.95	<b>6.44</b>
20B286	13TB	(1) & (2)	20-15,000	.7S-3S	.5 V.	5 Gr.	7.95	<b>4.67</b>
60B111	13TBX	(1) & (2)	20-15,000	.7D-3S	.5 V.	5 Gr.	11.95	<b>7.03</b>
14A529	13AT	(1)	30-20,000	.7D-3S	.3 V.	6 Gr.	13.95	<b>8.20</b>
60A36	13ATX	(1)	30-20,000	.7D-3S	.3 V.	6 Gr.	13.95	<b>8.20</b>
14A593	81T	(3)	30-15,000	1S-3S	1.0 V.	6 Gr.	3.95	<b>2.32</b>
60A82	81TX	(3)	30-15,000	1D-3S	1.0 V.	6 Gr.	7.95	<b>4.67</b>

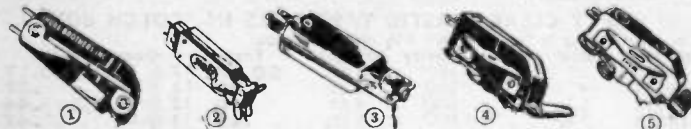
## ASTATIC CRYSTAL STEREO CARTRIDGES



Replacement for many imported cartridges such as Acos, Ronette, Telefunken, Vaco, etc. Exact replacement high quality crystal cartridges have wide frequency range and separation. Turnover type can be mounted in standard 1/2" centers or through the tone arm. Turnover bracket, bushing, and knob included. Type 76TS has 2 volt output, 50-10,000 cps frequency response. Type 86TS has .8 volt output, 50-15,000 cps. freq. response.

No. 14A654. Model 76TS-TB. Mfg. list \$7.95. Net Each. . . . . **\$4.67**  
No. 14A656. Model 86TS-TB. Mfg. list \$8.50. Net Each. . . . . **\$5.00**

## SHURE REPLACEMENT CRYSTAL CARTRIDGES



High quality replacement cartridges for most record changers and phonographs. All are crystal types except WC10 and ML44 which are ceramic. WC10 is "twin-lever" type with response of 30-12,000 cps. ML44 is "music lovers" type for hi-fi use, freq. response 30-15,000 cps. W-78 is less needle. Any standard needle will fit. All others have needle included.

Stock No.	Mfg. No.	Illus. No.	Type	Needle Tip	Needle Output Pressure	Output Volts	Net Each
20C639	W31AR*	1	MG	Osmium	7 gr.	2.1	<b>\$4.41</b>
20C640	W22	2	MG	Sapphire	8 gr.	1.2	<b>5.50</b>
	Turnover		Std.	Osmium	8 gr.	1.4	
20A516	W26	2	All Groove	Osmium	8 gr.	1.0	<b>3.82</b>
20A296	W78	3	Std.		1 oz.	2 or 4	<b>3.26</b>
20A347	WC10	4	Std.-LP	Sapphire	7 gr.	.78 or 1	<b>5.58</b>
20A348	ML44	5	Std.-LP	Sapphire	5-8 gr.	.4	<b>8.20</b>

\*31AR Fits All RCA 45 RPM Record Players.

## SONOTONE CERAMIC CARTRIDGES



High quality ceramic cartridges not affected by temperature or humidity. High output, flat response without equalization. LB types are less bracket for pressure-fit tone arms. Tracking force 6 to 10 grams.

Stk. No.	Fig.	Type	Response Cps	Needle Tip	Output Volts	Mfg. List	Net Each
14C580	(1)	1P-15	30-15,000	1S	1 V.	\$7.50	<b>\$4.41</b>
14C581	(1)	1P-25	30-15,000	2S	1 V.	7.50	<b>4.41</b>
14A571	(1)	1P-LB-25	30-15,000	2S	1 V.	7.50	<b>4.41</b>
14C583	(2)	2T-S	30-15,000	1S-3S	1 V.	8.50	<b>5.00</b>
14A572	(2)	2T-LB-S	30-15,000	1S-3S	1 V.	8.50	<b>5.00</b>
60A35	(2)	2T-SD	30-15,000	1D-3S	1 V.	14.50	<b>8.53</b>
14B597	(3)	3T-S	20-20,000	1S-3S	5 V.	12.50	<b>7.35</b>
60B135	(3)	3T-SD	20-20,000	1D-3S	5 V.	15.00	<b>8.82</b>

Ⓞ MODEL 10T SNAP-IN. Four gold-plated contacts mean years of trouble-free performance. Two separate ceramic armatures assure dependable high-fidelity stereo listening. Freq. response 30-15,000 cps. Tracking force 5-7 grams, 20 db separation.

No. 14A567. Model 10T2-S. Sapphire Tips. Net Each. . . . . **\$3.79**  
No. 60A75. Model 10T2-SD. Diamond-Sapphire Tips. Net Each. . . . . **\$7.91**  
Same as above except has 15" tone arm leads for easier stereo conversion.  
No. 14A560. Model 10T2-S15. Sapp. Tips. Mfg. List \$6.95. Net Ea. . . . . **\$4.09**  
No. 60A34. Model 10T2-SD15. Dia.-Sapp Tips. Mfg. List \$13.95. Ea. . . . . **\$8.20**

Ⓞ MODELS 16T AND 18T. New replacement stereo ceramic cartridges used as original equipment in thousands of phonographs. Response is flat from 20 to 10,000 cps, 22 db separation. Tracks at 4-7 grams. 16T is low output, .5 volts, 18T is high output, .7 volts.

14A657. 16T-S. Dual Sapphire Needles. Mfg. list \$12.50. Net Each. . . . . **\$7.35**  
60C114. 16T-SD. Dia.-Sapphire Needles. Mfg. list \$15.50. Net Each. . . . . **\$9.11**  
14A658. 18T-S. Dual Sapphire Needles. Mfg. list \$12.50. Net Each. . . . . **\$7.35**  
60B112. 18T-SD. Dia.-Sapphire Needles. Mfg. list \$15.50. Net Each. . . . . **\$9.11**

Ⓞ MODEL 8TA-4. Famous leader in ceramic stereo cartridges, has smooth response over full tonal range. Freq. response 20-15,000 cps, tracking force 4-6 grams. Mfg. list \$14.50.

20A298. Model 8TA-4S. .7 mil and 3 mil sapphire. Net Each. . . . . **\$8.53**  
60B134. Model 8TA-4SD. .7 mil dia. and 3 mil sapphire. Net Each. . . . . **\$10.29**

## ELECTRO-VOICE POWER-POINT CARTRIDGES



Popular slip-in type turn-under cartridge of diecast nylon. When needles become worn, entire cartridge can be slipped out and replaced. Response 20 to 15 KC cps, 1 volt output, tracks 5 to 8 grams. Will replace any cartridge with 1/2" mtg. centers. Has separate 1 mil and 3 mil needle tips.

Ⓞ 20B403. Model 56 Cartridge (less mount), sapphire tips. Ea. . . . . <b>\$2.37</b>
Ⓞ 60B116. Model 56DS Cart. (less mount), dia-sapp. tips. Ea. . . . . <b>\$5.97</b>
Ⓞ 20B404. Model 76S (Webcor Repl.) Cart. (less mount), sapp. tips. . . . . <b>2.37</b>
Ⓞ 60B117. Model 76DS Cartridge (less mount), dia-sapp. tips. Ea. . . . . <b>5.97</b>
Ⓞ 20B391. Model PT-2 Turn-under Mount for 56 cartridge tips. Ea. . . . . <b>.60</b>
Ⓞ ELECTRO-VOICE POWER POINT STEREO CARTRIDGE. Plug-in cartridge type for easy replacement. Response flat from 20 cps to 15 KC, output one volt, tracking force 5 to 8 grams. Diecast nylon case. With needle tips.
20B398. Type 66 Cartridge (less mount) dual sapphire tips. Each. . . . . <b>\$3.67</b>
60B115. Type 66DS Cartridge (less mount) dia-sapp. tips. Each. . . . . <b>\$7.77</b>
20B399. Type PT-3 Turn-under Mount for above. Each. . . . . <b>.60c</b>

## E-V POWER POINTS FOR ZENITH COBRA ARMS

Direct replacement slip-in cartridges for all Cobra arms mfg. since 1957. Color coded for easy identification. "D" suffix denotes dia. stylus.

Stk. No.	E-V No.	Zenith No.	Color	Mfg. List	Net Ea.
Ⓞ 20A607	3501	142-71	Blue	\$5.00	<b>\$3.00</b>
Ⓞ 20A621	3502	142-72	Yellow	5.00	<b>3.00</b>
Ⓞ 60B124	3500D	142-74	Black-White	15.00	<b>9.00</b>
Ⓞ 60B125	3504DS	142-76	Gray	16.50	<b>9.90</b>
Ⓞ 20A629	3505	142-77	Brown	7.50	<b>4.50</b>
Ⓞ 20A657	Z56	142-87	Purple	3.95	<b>2.37</b>
Ⓞ 20A667	Z56DS	142-88	White	3.95	<b>2.37</b>
Ⓞ 20A668	106	142-108		5.95	<b>3.57</b>
Ⓞ 60B126	106DS	142-109		12.95	<b>7.77</b>
Ⓞ 20A669	3508	S-11473	Red	3.50	<b>2.10</b>
Ⓞ 20A670	3507	S-15222	Green	3.50	<b>2.10</b>
Ⓞ 20A672	3506	S-15780	Red-Green	3.50	<b>2.10</b>

## RECORDING AND PLAYBACK CARTRIDGES



SHURE W56N. For all models Wilcox-Gay Recordette. With dual cutter-playback needle. The playback part of the needle has all-groove point. Wt. 3 oz.

No. 20C641. Net Each. . . . . **\$5.08**  
No. 20C642. A68D Needle. EACH. . . . . **\$2.08**



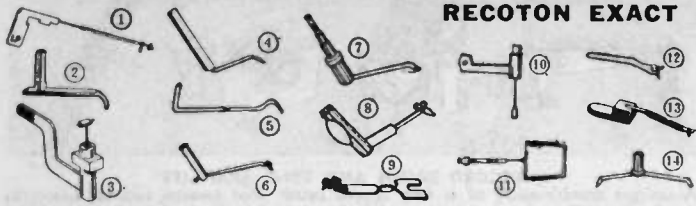
ASTATIC X-26 CRYSTAL CARTRIDGE. Replacement for General Industries recorder playback units. Uses regular cutting needles (not furnished). Maximum recording voltage 150 volts RMS. Frequency response to 6000 cps. Wt. 5 1/2 oz.; size 1 3/8 x 3/4". Oxidized finish.

No. 14A532. Shpg. wt. 10 ozs. Net Each. . . . . **\$7.53**  
No. 14A568. ASTATIC M-41-8 MAGNETIC CUTTER. Net Each. . . . . **\$7.53**



# Phono Needles, Motor, Pick-Ups & Discs

## RECOTON EXACT REPLACEMENT NEEDLES



Precision construction for true fidelity, protection of valuable records. Superior sapphire tips offer faithful tracking to bring out all the sound from the record grooves. "Size" description indicates "MG" for microgroove, "AG" for all-groove, and "STD" for standard 78 RPM speeds, "TO" for turnover type. Select proper needle by Mfg. No. or illustration.

Fig. Stk. No. Type No. Cartridge No. Needle No. Size Net Each

ACOS						
①	24A351	525*	73 Series	SS-73	TO	\$1.49
ASTATIC						
②	24A444	444	66, 62	K-78	Std.	.99
③	24A445	445	66, 62	K	MG	.99
④	24A305	446	66-2	K-AG	AG	.99
⑤	24A393	393R*	57-T	N-57	TO	.99
⑥	24A354	393*	55-T	N-55	TO	1.49
⑦	24A356	386	LT Series	D	Std.	.99
⑧	24A357	387	LT Series	D-33	MG	.99
⑨	24A358	388	LT Series	D-AG	AG	.99
⑩	24A373	373	GC, 51	G-33	MG	.99
⑪	24A340	340	GC, 51	G-AG	AG	.99
⑫	24A371	371	AC Series	A-3	Std.	.99
⑬	24A370	370	AC Series	A-1	MG	.99
⑭	24A372	372	AC, AG	A-AG	AG	.99
⑮	24A310	310	408	N10-1J	MG	.99
⑯	24A302	302	CAC, LQD	Q, R	Std.	.99
⑰	24A303	303	CAC, LQD	QR-33	MG	.99
⑱	24A361	466	310, 420	N8-3	Std.	.99
⑲	24A362	464	310, 420	N8-1	MG	.99
⑳	24A359	465	310, 420	N8-2	AG	.99
㉑	24A546	546*	17, 17D	N-41	Stereo TO	1.49

ELECTRO-VOICE						
①	24A322	506	21, 26	DI-1	Stereo	.99
②	24A375	375	96, 33	S-2	AG	.99

EUPHONICS						
①	24A541	541	E1	J-47	Stereo	.99
②	24A542	542	E1	J-41	MG	.99
③	24A543	543	E1	J-43	Std.	.99

MAGNAVOX						
①	24A327	395*	560 Series	560	Twin	1.49

PHILCO						
①	24A325	353*	76 Series	35 Series	Twin	1.49

RCA						
①	24A310	310	75475	74068	MG	.99
②	24A523	523	106771	106786	Stereo	.99
③	24A533	533*	106770A	108214	Stereo Twin	1.49

## RECOTON CONVENTIONAL TYPE NEEDLES

High quality playing needles, set screw type, for 78 RPM or microgroove records.

**ALL GROOVE**

Sapphire tip needle. Truncated for both microgroove and standard records. Plays all types of records without changing needles. List \$2.00. No. 20C79. Each..... **98c**

Osmium tip needle. Otherwise same as above. List \$1.50. No. 20B81. Each..... **79c**

**Sapphire Point.** Good for 5000 plays. No finer jeweled standard needle available. No. 16A789. Each..... **98c**

25 @ Each..... **88c**

**Microgroove.** For long playing records. No. 16A790. Each..... **98c**

25 @ Each..... **88c**

## ASTATIC PHONO PICKUPS

① **MODEL KR-314-T.** 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 phonographs where ruggedness at low cost is required. Base of pickup retracts into tone arm for use on phonos having low clearance in the lid. Supplied complete with mounting hardware and arm rest. Mfg. list \$6.95. No. 14A501. Model KR-314-T Pickup. Net Each..... **\$4.09**

② Same as above except equipped with Astatic 74TS high output stereo cartridge. Mfg. list \$8.25. No. 14A502. Model KR-74-TS Pickup. Net Each..... **\$4.85**

③ **MODEL B-310T PICKUP.** New modern design, sturdy construction, original equipment phono pickup. Gracefully styled, enhances the appearance of any phonograph. Ideal for converting older phonos to modern design. Tone arm made of pressure cast aluminum, gold finish. Cartridge output 3 volts, freq. response 30-11,000 cps. Mfg. list \$9.95. No. 14A503. Model B-310T. Net Each..... **\$5.85**

## GENERAL INDUSTRIES 3-SPEED PHONO MOTOR

Model DSS—Rim Drive 4 Pole Motor. 78, 45 and 33 1/3 RPM is accomplished by shifting Idler wheel vertically to desired diameter of motor shaft. Four pole shaded-pole motor gives absolute minimum stray field radiation for use with any type pickup. Motor and turntable use oilless bearings. Complete with 10" turntable, speed indicator, 45 RPM adaptor and on-off switch. 6 1/2" L. x 6 3/8" W, 2 1/2" below plate. No. 37A307. Wt. 6 1/2 lbs. Net Each..... **\$15.45**

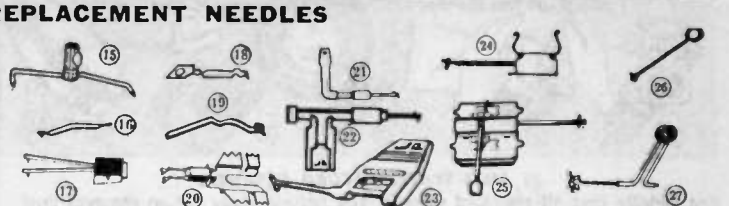


Fig. Stk. No. Type No. Cartridge No. Needle No. Size Net Each

RONETTE						
①	24A324	504	BF40, OV	SA-075	Stereo	.99
②	24A400	400	TO-284, 222	5304N	Std.	.99
③	24A401	401	TO-284, 222	5304L	MG	.99
④	24A443	443	RA-395-2	5304LN	AG	.99
⑤	24A326	509	DC42	SA-075	MG	.99

SHURE						
①	24A312	312	P30, W68	AG1A	Std.	.99
②	24A317	317	P30, W68	AG5MG	MG	.99
③	24A352	352	P81, W26A	A67U	AG	.99
④	24A320	427*	ML-44, WC10	N-4, A10	Twin	1.49

SONOTONE						
①	24A349	522*	8TA-4	NBTA	Stereo-TO	1.49
②	24A332	503*	8T-4	NBT	Stereo-TO	1.49
③	24A544	544*	9T	N-9TS	Stereo-TO	1.49
④	24A545	545*	12T	N-12TS	Stereo-TO	1.49
⑤	24A337	402	1P-15	N-1P15	MG	.99
⑥	24A460	460*	3T	N3TS	TO	1.49
⑦	24A385	385*	2T	N2TS	TO	1.49

TELEFUNKEN						
①	24A534	534*	T20/2	A20/2	Stereo TO	1.49

VACO						
①	24A366	479	T-45		MG	.99
②	24A367	480	T-45		Std.	.99
③	24A342	516	ST-100		Stereo	.99
④	24A341	512	TC85 (BSR)		Stereo	.99

WEBSTER ELECTRIC						
①	24A519	519*	SC3	WE550	Stereo TO	1.49
②	24A518	518	SC1	WE500	Stereo	.99
③	24A538	538	SC1, 2	MC1, MC2	MG	.99
④	24A539	539	SC1, 2	MC1, MC2	AG	.99
⑤	24A540	540	SC1, 2	MC1, MC2	Std.	.99

## DIAMOND REPLACEMENT NEEDLES

Protect your valuable record collection with a genuine hand polished diamond stylus. Diamond needles outlast other types by 5 times or more, so that it is more economical, and easier on records. Any of above needles can be obtained with a diamond tip. Just add "D" to stock number when ordering.

Single Diamond Stylus. Net Each.....	<b>\$3.19</b>
*After type number above indicates available in Diamond-Sapphire. Add "SD" to stock number when ordering.	
Diamond-Sapphire Stylus. Net Each.....	<b>\$3.45</b>

## SOUNDCRAFT-PRESTO RECORDING DISCS

Engineered to the highest standards of the recording profession. Presto recording discs are recommended for use in broadcasting, recording and cinema sound studios; and for all professional recording applications.



PRECISION RECORDINGS  
PRECISE PLAYBACKS

**MASTERS**—Perform with matchless fidelity. Are used by leading recording studios throughout the world. .050" thick. Packed 25 to case, wt. 20 lbs. No. 4A7. Single face 13 1/4" Dia. Case of 25, Per Case..... **\$44.25**

No. 4A8. Double face 13 1/4" Dia. Case of 25, Per Case..... **\$60.75**

**"PLAYBACK"**—(Green Label) Ideally suited to requirements of the recording engineer concerned with volume production work. Available in double face, punched with one center hole and one drive hole. 25 to Case.

Stk. No.	Size	Thickness	Pkg. Wt.	Pkg. of 25
4A9	10"	.040"	8 lbs.	<b>\$23.25</b>
4A10	12"	.050"	14 lbs.	<b>38.25</b>
4A11	16"	.050"	26 lbs.	<b>69.00</b>

**"AUDITION"**—Double face (White Label). A quality disc at a substantial saving for professional and amateur use, where superior professional quality is not needed. Punched with center hole and one drive hole. Packed 25 to case.

Stk. No.	Size	Thickness	Pkg. Wt.	Pkg. of 25
4A14	10"	.040"	8 lbs.	<b>\$18.75</b>
4A15	12"	.050"	14 lbs.	<b>30.00</b>
4A18	16"	.050"	26 lbs.	<b>55.50</b>

**"BLUE DIAMOND"**—Double faced. Highly recommended for preliminary audition work, making test cuts, or general amateur use. Punched with center hole and drive hole. Packed 10 to carton.

Stk. No.	Size	Thickness	Pkg. Wt.	Pkg. 10	Pkg. 50
11A759	6 1/2"	.035"	1 lb.	<b>\$3.30</b>	<b>\$16.00</b>
11A760	8"	.035"	1 1/2 lb.	<b>5.00</b>	<b>22.50</b>
11A761	10"	.035"	3 lbs.	<b>7.00</b>	<b>31.50</b>
11A762	12"	.040"	4 1/2 lbs.	<b>10.30</b>	<b>46.50</b>

**45 RPM**—7" discs recommended for professional recordings, disc jockey releases, automatic paging systems and control applications. Punched with 1.504" center hole and one drive hole. .040" thick. Wt. 5 lbs.

Stk. No.	Size	Case 25	Stk. No.	Size	Case 25
4A17	7"-Double face..	<b>\$21.00</b>	4A16	7"-Single face	<b>\$17.25</b>

## RECORDING AND PLAYBACK STYLI

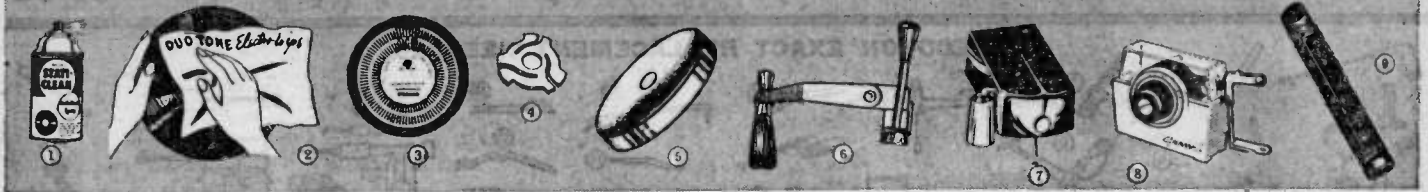
Presto sapphire recording styli meet the most exacting standards of the broadcast and recording studio requirements, each styli being individually tested for thread throw and signal-to-noise ratio. Made with short durable shanks .531" long.

Stk. No.	Type	Description	List Price	Net Ea.
24A376	SSR	78 RPM Sapphire Stylus	\$8.25	<b>\$4.95</b>
24A377	SSM	Microgroove Sapphire Stylus	8.25	<b>4.95</b>
24A378	SSTL	Stellite Cutter Stylus	2.50	<b>1.50</b>
24A379	SPS	78 RPM Sapphire Playback	4.50	<b>2.70</b>
24A380	SPM	Microgroove Sapphire Playback	4.50	<b>2.70</b>

B-A—Since 1927 Personalized Service By Mail!



# PHONO ACCESSORIES



## ① ANTI-STATIC RECORD CLEANER

For vinylite and all standard records. The aerosol spray action removes dust and deposits a microscopically thin film. The film grounds static electrically and makes records permanently dust free, it will no longer cling to the surface. This reduces surface noise and increases record life.

No. 16B582. 5 Oz. Can. Mfg. list \$1.50. Net Each **88c**  
 No. 11B634. 12 Oz. Can. Mfg. list \$1.79. Net Each **\$1.32**

## ② 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.

No. 20C691. Mfg list \$1.00. Net Each **59c**

## ③ 4-SPEED STROBOSCOPE DISC

Accurately tests all four turntable speeds. At correct speed, lines on disc appear to remain stationary. Each speed has 4 extra sets of lines for showing whether turntable is running 2% or 4% slow or fast.

No. 11B220. Made of sturdy cardboard. Mfg. list 55c. Net Each **32c**  
 No. 11B221. Made of durable plastic. Mfg. list \$1.65. Net Each **97c**

## ④ PLASTIC SNAP INSERTS FOR 45 RPM RECORDS

Snaps in the large hole of a 45 RPM record to adapt for use on standard spindles of 4-speed changers or other players with 45 RPM speed.

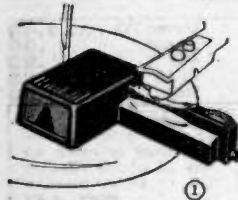
No. 17A814. Pkg. of 6 For **18c**

## ⑤ 45 RPM RECORD ADAPTOR

Fits over standard spindle of record player and allows playing of 45 RPM records. Made of durable plastic. Mfg. list 25c.

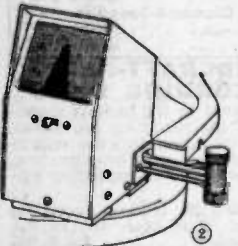
No. 24A298. Net Each **15c**

## ROBINS SYL-A-SCOPES



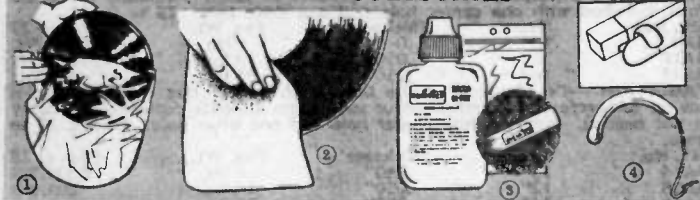
First truly reliable method for checking stylus wear. This new shadowgraph unit provides an illuminated, magnified image of the stylus tip, showing every detail. Enables anyone to tell at a glance whether his stylus is worn or chipped, thus protecting valuable records.

① Model SG-33. Battery operated model can be placed on turntable and stylus placed in aperture without the necessity of removing stylus from cartridge or cartridge from tone arm. Size of screen is 1 3/4 x 1". Powered by two penlite batteries (not included). Has off-on slide switch. High impact styrene case, overall size 5 1/2 x 3 1/2 x 1 1/4". Shpg. wt 8. oz.  
 No. 11A378. Mfg. list \$6.75. Net Each **\$4.49**



② Model SG-66. AC powered model capable of detecting stylus wear with a remarkable degree of accuracy. So precise it can be used by industry for quality control and small parts inspection. Ideal for broadcast stations, audiophiles, and service technicians. Large ground glass screen (2 5/8 x 2 1/4") highlights every detail of stylus or part at 80-to-1 linear magnification. Sturdy metal case with grey hammer-tone finish, has off-on slide switch. Overall size 7 x 5 1/4 x 3 3/8". For 110-120 V. AC 60 cycles. Shpg. wt. 1 lb.  
 11A377. Mfg. list \$19.95. Net Each **\$13.45**

## RECORD ACCESSORIES



### ① RECORD SAVERS

Heavy, clear plastic envelopes to protect your records. Prevents accidental damage from scratches, and protects records against dust, oil, and dirt. Mfg. list 49c.

No. 33A87. For 10" records. Pack of 6, For **29c**  
 No. 33A90. For 12" records. Pack of 5, For **29c**

### ② DISK-O-KLEEN RECORD CLEANING CLOTH

Double action record cleaning cloth is silicone treated, eliminates dust-attracting static electricity as it cleans. Specially woven long-nop velvet reaches deep inside grooves, removes all dirt for longer record life, improved performance. Comes in clear plastic pouch.

No. 11B210. Mfg. list \$1.25. Net Each **73c**

### ③ RECOR-DE-STAT CLEANING KIT

Kit includes bottle of anti-static detergent in plastic squeeze bottle, and a velvet applicator with deep nap for cleaning out imbedded dirt from grooves, a must for stereo records. Double action detergent leaves a dust-repellent film on the record. Complete with clear plastic pouch.

No. 11B211. Mfg. list \$2.00. Net Each **\$1.18**

### ④ TONE ARM LIFT

Only sure way to place tone arm on record, helps place stylus on right spot without damaging needle or scratching record. Small, practically weightless, the tiny spring metal plastic coated lift slips easily on any tone arm.

No. 11B216. Mfg. list 75c. Net Each **30c**

## ⑥ 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. Mfg. list 98c.

No. 24A299. Net Each **59c**

## ⑦ EBY STATI-MUTE

The latest word in dust-free, static free records. Eliminates static electricity by making the air above the record conductive, so that static is dissipated, thus dust particles cannot collect. Need never be cleaned. Preserves record and stylus. Packed in handsome plastic case.

No. 14A169. Stati-Mute. Net Each **\$2.89**

## ⑧ NEW GARRARD PRESSURE GAUGE

This accurate, easy to read gauge features a large, legible scale, visible through a clear plastic window, with widely spaced gram markings. Has a 5-gram brass test weight which is used as a standard, so that the scale can be zeroed for utmost accuracy. Can be used with any cartridge or tone arm.

No. 16B595. Model SPG3. Net Each **\$2.95**

## ⑨ 75-POWER NEEDLE INSPECTION MICROSCOPE

Precision made of finest optical parts. Wide angle lens shows a large, clear image of stylus, so that any wear or chipping can be instantly noted. The only sure way of protecting records against damage. Easily carried in shirt pocket. Only 3 3/4" long.

No. 60A153. Net Each **\$1.49**

## STEREO-MONO TEST RECORD



A truly amazing bargain—the most complete test record of its kind containing the widest range of essential check points ever incorporated into one test disc. Developed by the editors of "Electronic World" for those hi-fi enthusiasts who wish to keep their equipment in top condition. All checks can be made by ear without a lot of expensive test equipment. Test bands check such items as condition of stylus, compliance, channel separation and balance, phasing, motor rumble, wow, frequency response, and turntable speed. Instructions furnished gives symptoms and cures of defects found. Precision recorded on 7 inch vinyl disc at 33 1/3 RPM. For stereo or monaural systems.

No. 23C33. Net Each **\$1.59**

## CHANGER ACCESSORIES



### ① PHONO GUARD CHANGER COVER

Smartly styled phono and turntable covers protect expensive equipment from dust. Made of durable heavy plastic material, stays new for years. Exclusive collapsible metal frame folds flat for easy storage, keeps cover rigid when in use. Size 12 x 15 1/2 x 5 1/4". Fits most changers. Available in following colors: Clear, White, Brown or Black.

No. 33A82. Specify Color. Mfg. list \$6.95. Net Each **\$4.09**

### ② VIBRATION PADS

Made of soft laminated sponge rubber on urethane foam plastic, these pads are designed to reduce rumble, mechanical feedback. Ideal for changers, preamps, amps, tuners, tape recorders, typewriters, or any equipment needing isolation. Available in four sizes.

No. 33A96. Size 6 x 12". Mfg. list 90c. Net Each **53c**

No. 33A97. Size 9 x 12". Mfg. list \$1.25. Net Each **73c**

No. 33A98. Size 12 x 12". Mfg. list \$1.60. Net Each **94c**

No. 33A99. Size 13 x 13". Mfg. list \$2.25. Net Each **\$1.32**

### ③ ROBINS KLEENEEDLE BRUSH

Unique needle brush mounts on side of changer under tone arm so that needle passes through brush on every change cycle. Blobs of dust are removed automatically after every record.

No. 11B207. Mfg. list \$1.40. Net Each **95c**

### ④ TURNTABLE LEVEL

A must for stereo changers and turntables, this precision spirit level sits easily on any turntable. Has gold anodized aluminum housing.

No. 11B208. Mfg. list \$1.20. Net Each **81c**

## PHONO ACCESSORY AND CARE KIT



MFG. LIST \$9.95

Audiotex 30-098

**\$5.85**

Everything you need for complete care of records and phonograph is contained in this one package, nothing else needed. Kit contains a record brush, tone arm lift, stylus microscope, 4-speed strob disc, a vial of phono and recorder oil, and stylus weight gauge. Total cost of individual parts is much more than cost of kit. Comes beautifully packaged in cardboard container. Ideal for gifts.

No. 33A78. Shpg. wt. 1 lb. Net Ea... **\$5.85**

## MILLER HOME RECORDING NEEDLES



Alloy Steel. Diamond polished. Each needle will cut approximately 25 6" records. Card of 3 needles. No. 16A794.. **52c**



Stellite. Diamond polished. Cuts quiet, smooth groove. Good for approximately 500 6" discs. No. 16A795.. **98c**



# Receiving Tubes



AVAILABLE FOR YOU ALWAYS AT B-A....

● SPARKLING FRESH STOCKS ● ONE FULL YEAR WARRANTY ● SAME DAY SHIPMENT  
● CURRENT DEALER NET PRICES— ● FUTURE TYPES STOCKED AS ANNOUNCED

ALL TUBES BELOW MAY BE ASSORTED FOR QUANTITY PRICES  
THE MORE YOU BUY THE MORE YOU SAVE AT B-A!

Tube Type	Optional List	Net 1-4	Net 5-49	Net 50 or Over	Tube Type	Optional List	Net 1-4	Net 5-49	Net 50 or Over	Tube Type	Optional List	Net 1-4	Net 5-49	Net 50 or Over	Tube Type	Optional List	Net 1-4	Net 5-49	Net 50 or Over
0A2	\$2.05	\$1.46	\$1.24	\$1.24	6AM8A	3.25	1.72	1.59	1.43	6DT6A	2.15	1.14	1.05	.95	12BA7	3.95	2.09	1.93	1.74
0A3/VR75	2.20	1.54	1.30	1.30	6AN4	4.95	2.62	2.42	2.18	6DT8	3.80	2.01	1.86	1.67	12BD6	2.45	1.29	1.20	1.08
0A4G	2.65	1.86	1.58	1.58	6AN8	3.70	1.96	1.81	1.63	6E5	3.00	1.59	1.47	1.32	12BE6	1.75	.92	.86	.77
0B2	2.05	1.44	1.22	1.22	6A05A	2.15	1.14	1.05	.95	6EA8	3.15	1.66	1.54	1.39	12BF6	2.20	1.16	1.08	.97
0B3/VR90	2.45	1.65	1.40	1.40	6A06	2.40	1.27	1.17	1.06	6EB8	3.70	1.96	1.81	1.63	12BH7A	3.05	1.61	1.49	1.34
0C3/VR105	2.10	1.50	1.28	1.28	6A07GT	4.00	2.11	1.96	1.76	6EH5	2.35	1.24	1.15	1.03	12BK5	4.00	2.11	1.96	1.76
0D3/VR150	2.05	1.44	1.22	1.22	6A55	2.55	1.35	1.25	1.12	6EH8	3.15	1.66	1.54	1.39	12BL6	2.30	1.22	1.13	1.01
0Z4	2.40	1.27	1.17	1.06	6A57G	6.95	4.95	4.21	4.21	6EM5	3.05	1.61	1.49	1.34	12BQ6GTB	4.45	2.35	2.18	1.96
0Z4G	2.60	1.37	1.27	1.14	6A58	3.35	1.77	1.64	1.48	6ER5	2.75	1.45	1.35	1.21	12BR7	2.95	1.56	1.44	1.30
1A7GT	3.70	1.96	1.81	1.63	6AT6	1.90	1.00	.93	.84	6EW6	2.30	1.22	1.13	1.01	12BV7	3.05	1.61	1.49	1.34
1AX2	3.05	1.61	1.49	1.34	6AT8A	3.35	1.77	1.64	1.48	6F5	3.65	1.93	1.79	1.61	12BY7A	3.20	1.69	1.57	1.41
1B3GT/1G3GT	2.90	1.53	1.42	1.28	6AU4GTA	3.60	1.90	1.76	1.59	6F6	4.20	2.22	2.06	1.85	12BZ7	3.05	1.61	1.49	1.34
1K3/1J3	2.90	1.53	1.42	1.28	6AU5GT	4.30	2.27	2.11	1.89	6F6G	3.65	1.93	1.79	1.61	12C5	2.35	1.24	1.15	1.03
1L6	3.50	1.85	1.71	1.54	6AU6A	2.10	1.11	1.03	.92	6FH5	2.50	1.32	1.22	1.10	12CA5	2.50	1.32	1.22	1.10
1N5GT	3.85	2.04	1.88	1.70	6AU8A	3.50	1.85	1.71	1.54	6FV6	2.80	1.48	1.37	1.23	12CN5	2.45	1.29	1.20	1.08
1R5	2.70	1.43	1.32	1.19	6AV5GA	4.00	2.11	1.96	1.76	6H6	3.55	1.88	1.74	1.56	12CR6	2.40	1.27	1.17	1.06
1S5	2.65	1.40	1.30	1.17	6AV6	1.65	.87	.81	.73	6J5	3.10	1.64	1.52	1.37	12CU5	2.35	1.24	1.15	1.03
1T4	2.50	1.32	1.22	1.10	6AW8A	3.70	1.96	1.81	1.63	6J5GT	2.75	1.45	1.35	1.21	12D4	2.75	1.45	1.35	1.21
1U4	2.50	1.32	1.22	1.10	6AX4GT	2.65	1.40	1.30	1.17	6J6A	2.80	1.48	1.37	1.23	12DB5	2.75	1.45	1.35	1.21
1U5	2.20	1.16	1.08	.97	6AX5GT	2.95	1.56	1.44	1.30	6J7	4.55	2.41	2.23	2.00	12DQ6A	4.20	2.22	2.06	1.85
1V2	2.10	1.11	1.03	.92	6AX8	3.70	1.96	1.81	1.63	6K6GT	2.50	1.32	1.22	1.10	12D57	3.40	1.80	1.66	1.50
1X2B	3.20	1.69	1.57	1.41	6AZ8	4.20	2.22	2.06	1.85	6K7	4.35	2.30	2.13	1.92	12D78	3.80	2.01	1.86	1.67
2AF4A	4.05	2.14	1.98	1.78	6BA6	2.00	1.06	.98	.88	6K11	3.55	1.88	1.74	1.56	12D7U	3.35	1.77	1.64	1.48
2BN4A	2.55	1.35	1.25	1.12	6BA7	3.70	1.96	1.81	1.63	6L6	6.35	3.36	3.11	2.80	12DV8	3.55	1.88	1.74	1.56
2CY5	2.85	1.51	1.39	1.25	6B48A	3.70	1.96	1.81	1.63	6L6GC	4.20	2.22	2.06	1.85	12DZ6	2.55	1.35	1.25	1.12
2X2A	3.40	2.90	2.90	2.61	6BC4	4.90	2.59	2.40	2.16	6L7	5.00	2.64	2.45	2.20	12DZ5	2.50	1.32	1.22	1.10
3A2	3.70	1.96	1.81	1.63	6BC5	2.45	1.29	1.20	1.08	6N7	4.55	2.41	2.23	2.00	12EG6	2.30	1.22	1.13	1.01
3A3	3.40	1.80	1.66	1.50	6BC7	3.80	2.01	1.86	1.67	6Q7	3.95	2.09	1.93	1.74	12EK6	2.55	1.35	1.25	1.12
3AF4A	4.05	2.14	1.98	1.78	6BC8	4.00	2.11	1.96	1.76	6S4A	2.05	1.08	1.00	.90	12F8	2.75	1.45	1.35	1.21
3AL5	1.85	.98	.90	.81	6BD6	2.45	1.29	1.20	1.08	6S8GT	4.40	2.33	2.15	1.94	12FK6	2.10	1.11	1.03	.92
3AU6	2.15	1.14	1.05	.95	6BE6	2.20	1.16	1.08	.97	6SA7	3.95	2.09	1.93	1.74	12FM6	2.05	1.08	1.00	.90
3AV6	1.75	.92	.86	.77	6BF5	3.55	1.88	1.74	1.56	6SA7-Y	3.70	1.96	1.81	1.63	12H6	3.30	1.74	1.62	1.45
3BC5	2.35	1.24	1.15	1.03	6BF6	1.80	.95	.88	.79	6SB7-GT	5.35	2.83	2.62	2.36	12J5GT	2.95	1.56	1.44	1.30
3BN4A	2.55	1.35	1.25	1.12	6BG6GA	6.50	3.44	3.18	2.86	6SC7	3.85	2.04	1.88	1.70	12J8	3.30	1.74	1.62	1.45
3BN6	3.05	1.61	1.49	1.34	6BH6	2.70	1.43	1.32	1.19	6SF5	3.10	1.64	1.52	1.37	12K5	2.95	1.56	1.44	1.30
3BU8	2.85	1.51	1.39	1.25	6BH8	3.50	1.85	1.71	1.54	6SF7	4.75	2.51	2.33	2.09	12L6GT	2.55	1.35	1.25	1.12
3BZ6	2.35	1.24	1.15	1.03	6BJ6	2.60	1.37	1.27	1.14	6SG7	4.25	2.25	2.08	1.87	12R5	2.60	1.37	1.27	1.14
3CB6	2.30	1.22	1.13	1.01	6BK4	7.55	4.00	3.70	3.33	6SH7	4.05	2.14	1.98	1.78	12SA7	3.95	2.09	1.93	1.74
3CF6	2.55	1.35	1.25	1.12	6BK5	3.70	1.96	1.81	1.63	6SJ7	3.75	1.98	1.84	1.65	12SA7GT	3.25	1.72	1.59	1.43
3CS6	2.45	1.30	1.20	1.08	6BK7B	3.40	1.80	1.66	1.50	6SJ7GT	3.70	1.96	1.81	1.63	12S67	4.25	2.25	2.08	1.87
3CY5	2.85	1.51	1.39	1.25	6BL7GTA	4.15	2.19	2.03	1.83	6SK7	3.60	1.90	1.76	1.59	12S7J	3.75	1.98	1.84	1.65
3DK6	2.40	1.27	1.17	1.06	6BN4A	2.50	1.32	1.22	1.10	6SK7GT	3.55	1.88	1.74	1.56	12SK7	3.60	1.90	1.76	1.59
3DT6	2.20	1.16	1.08	.97	6BN6	3.15	1.66	1.54	1.39	6SL7GT	3.50	1.85	1.71	1.54	12SK7GT	3.55	1.88	1.74	1.56
3Q4	2.90	1.53	1.42	1.28	6BN8	2.70	1.43	1.32	1.19	6SN7GTB	2.60	1.37	1.27	1.14	12SL7GT	3.75	1.98	1.84	1.65
3Q5GT	3.60	1.90	1.76	1.59	6BQ5	2.40	1.27	1.17	1.06	6SQ7	3.30	1.74	1.62	1.45	12SN7GTA	2.70	1.43	1.32	1.19
3S4	2.65	1.40	1.30	1.17	6BQ6GTB	4.35	2.30	2.13	1.92	6SQT	3.00	1.59	1.47	1.32	12SQ7	3.30	1.74	1.62	1.45
3V4	2.50	1.32	1.22	1.10	6BQ7A	3.95	2.09	1.93	1.74	6SR7	3.25	1.72	1.59	1.43	12SQ7GT	2.90	1.53	1.42	1.28
4AU6	2.20	1.16	1.08	.97	6BR8A	3.50	1.85	1.71	1.54	6T4	4.55	2.41	2.23	2.00	12V6GT	2.15	1.14	1.05	.95
4BC8	4.05	2.14	1.98	1.78	6BS8	3.75	1.98	1.84	1.65	6T8A	3.35	1.77	1.64	1.48	12W6GT	3.00	1.59	1.47	1.32
4BN6	3.05	1.61	1.49	1.34	6BU8	2.80	1.48	1.37	1.23	6U5/6G5	3.20	1.69	1.57	1.41	12X4	1.90	1.00	.93	.84
4BQ7A	4.00	2.11	1.96	1.76	6BX7GT	4.00	2.11	1.96	1.76	6U8A	3.30	1.74	1.62	1.45	13DE7	2.95	1.56	1.44	1.30
4BS8	3.85	2.04	1.88	1.70	6BY5GA	4.20	2.22	2.06	1.85	6V3A	4.55	2.41	2.23	2.00	14A7/12B7	3.95	2.09	1.93	1.74
4BU8	2.85	1.51	1.39	1.25	6BY6	2.50	1.32	1.22	1.10	6V6	5.00	2.64	2.45	2.20	14B6	3.60	1.90	1.76	1.59
4BZ6	2.25	1.19	1.10	.99	6BY8	2.80	1.48	1.37	1.23	6V6GTA	2.15	1.14	1.05	.95	14Q7	4.20	2.22	2.06	1.85
4CZ6	4.05	2.14	1.98	1.78	6BZ6	2.25	1.19	1.10	.99	6W4GT	2.40	1.27	1.17	1.06	17AX4GT	2.70	1.43	1.32	1.19
4CB6	2.30	1.22	1.13	1.01	6BZ7	4.00	2.11	1.96	1.76	6WG6GT	2.85	1.51	1.39	1.25	17D4	2.75	1.45	1.35	1.21
4CS6	2.35	1.24	1.15	1.03	6BZ8	4.45	2.35	2.18	1.96	6X4	1.65	.87	.81	.73	17DQ6B	4.20	2.22	2.06	1.85
4DM6	2.25	1.19	1.10	.99	6C4	1.85	.98	.90	.81	6X5GT	2.10	1.11	1.03	.92	18FW6	2.00	1.06	.98	.88
5A8A	3.30	1.74	1.62	1.45	6C5	3.15	1.66	1.54	1.39	6X8	3.15	1.66	1.54	1.39	18FX6	2.15	1.14	1.05	.95
5AN8	3.60	1.90	1.76	1.59	6C10	3.60	1.90	1.76	1.59	6Y6GA	3.45	1.82	1.69	1.52	18FY6	1.65	.87	.81	.73
5AQ5	2.20	1.16	1.08	.97	6CB5A	7.50	3.97	3.68	3.31	7A6	3.45	1.82	1.69	1.52	19AU4GTA	3.50	1.85	1.71	1.54
5AS4A	2.65	1.40	1.30	1.17	6CB6A	2.25	1.19	1.10	.99	7A8	4.70	2.49	2.30	2.07	19BG6GA	6.50	3.44	3.18	2.86
5AS8	3.50	1.85	1.71	1.54															



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## SILVERAMA TV PICTURE TUBES

B-A full 12 Month Warranty. Bold Face Type indicates aluminized tubes. To insure safe arrival ship via express only.

New types stocked as they are announced—send us your order.

B-A Refunds by bank check the current value of any DUD returned PREPAID and in acceptable condition within 30-days of new tube shipment.

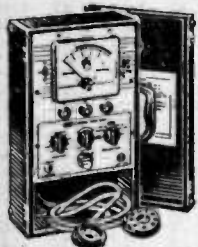
Stk. No.	Tube Type	Wt. Lbs.	Optional List	Net Each	Stk. No.	Tube Type	Wt. Lbs.	Optional List	Net Each
8A1	7JP4	6	\$34.75	<b>\$24.33</b>	8A17	21ALP4A/ CBP4A	34	\$45.50	<b>\$31.83</b>
8A2	10BP4A	14	36.75	<b>25.87</b>	8A18	21AMP4A	34	45.75	<b>32.00</b>
8A3	12LP4A	19	41.00	<b>28.67</b>	8A19	21AP4	27	70.75	<b>49.47</b>
8A4	14BP4/ CP4/EP4	15	36.75	<b>25.87</b>	8A20	21ATP4A	34	45.50	<b>31.83</b>
8A5	16GP4B	16	57.75	<b>40.33</b>	8A21	21AUP4B/ AVP4B	35	45.75	<b>32.00</b>
8A6	16KP4A/ RP4A	20	38.75	<b>27.00</b>	8A23	21EP4B	36	45.75	<b>32.00</b>
8A8	17AVP4A/ ATP4A	19	39.25	<b>27.33</b>	8A24	21FP4C	36	45.75	<b>32.00</b>
8A10	17BP4B	24	37.25	<b>26.00</b>	8A25	21MP4	27	73.50	<b>51.40</b>
8A11	17CP4	16	57.25	<b>40.07</b>	8A27	21YP4A	36	44.75	<b>31.33</b>
8A33	17DKP/DTP4 DLP4	13	44.75	<b>31.33</b>	8A28	21ZP4B	36	44.75	<b>31.33</b>
8A34	17DXP4	13	44.00	<b>30.67</b>	8A32	23EP4	36	76.25	<b>53.33</b>
8A14	19AP4A/B	26	62.75	<b>43.87</b>	8A37	23MP4	30	68.75	<b>48.00</b>
8A35	19XP4	19	49.50	<b>34.67</b>	8A36	23YP4/ XP4	30	76.25	<b>53.33</b>
8A16	20DP4C/ CP4D	31	46.75	<b>32.67</b>	8A29	24CP4A	43	65.75	<b>46.00</b>
					8A30	24DP4A	43	65.50	<b>45.87</b>
					8A31	27EP4	66	122.00	<b>85.33</b>

### COLOR PICTURE TUBES

8A49	21AXP22A	38	127.00	<b>113.33</b>	8A48	21CYP22A	38	127.00	<b>120.00</b>
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### B & K MODEL CRT 440

#### PICTURE TUBE TESTER AND REJUVENATOR

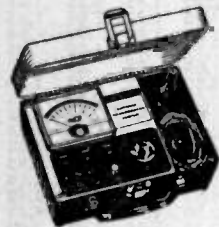


• Tests picture tubes for Cathode emission, has grid bias necessary for tube cut-off. • Inter-  
element shorts and leakage (up to several meg-  
ohms). • Life test feature checks gas content  
and shows useful life expectancy. • Tests and  
rejuvenates all picture tubes including new 1 to  
12 volt series and 110° types. Also tests each  
gun separately in color tubes. Removes shorts  
between elements, repairs open connections and  
reactivates cathode which restores emission and  
brightness. Large 4 1/2" meter. Leatherette cov-  
ered portable case 14 x 8 x 4 3/4". Weight 10  
lbs. Has all necessary connecting cords and In-  
structions. For 115V. 60 cy. AC. **\$74.95**  
No. 35A229. Net Each

#### ADAPTERS FOR MODEL 400 AND 350 TESTER

C40 for 110° picture tubes.	<b>\$9.75</b>
No. 35A523. Net Each	
CR48 for 110° picture tubes with 2.34-2.68-8.4 volt filament.	<b>\$4.95</b>
No. 35A230. Net Each	

### NEW B & K MODEL 420



Tests and rejuvenates picture tubes.  
Handy compact size—new low price. Tests and  
rejuvenates all picture tubes, removes interele-  
ment shorts and leakage, restores emission and  
brightness, extends useful life of picture tube.  
Complete operation in just minutes without re-  
moving tube from set—a real money maker  
that will pay for itself quickly.

Checks and repairs color tubes with the C40  
adaptor listed above.

Two-tone case 8 5/8 x 6 3/4 x 3 7/8" deep. Wt. 5 1/2  
lbs. For 117 volt 50-60 cycle AC. **\$54.95**  
No. 35A594. Net Each

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#### CORRECTS DOZENS OF PICTURE TUBE FAULTS

Simple cure for open cathode, heater to cathode short,  
open control grid, control grid to cathode short, low  
emission or combinations of the above. Works on electro-  
static or electromagnet focus pix tubes, in series or  
parallel-wired filament circuits. Wt. 1 lb. Mfg. list \$6.65.  
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### DELUXE TUBE AND TOOL CADDY

**\$17.50 VALUE ONLY \$13.25**

When Included With Order for  
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Holds 186 tubes in upper section, 40 as-  
sorted sizes in bottom compartment. Has  
movable partitions in bottom compartment  
for easy adaptability to individual require-  
ments. Tool compartment accommodates  
all tools normally used. Luggage styled,  
solid wood construction. Handsome, dur-  
able, airplane luggage, blue finish, strong  
serviceable key lock. 18 3/4 x 9 x 13". Shpg. wt. 10 lbs.

40A156. (When Ordered With Tubes). **NET EACH \$13.25**  
CADDY ONLY ordered without Tubes. **NET EACH \$14.50**

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teries in our space vehicles.

Stk. No.	Mfg. No.	Fig.	Max. Output Volt	MA	Size	Net Each
17C186	B-2 Mounted	①	.4	2	1/2 x 3/8"	<b>\$1.50</b>
17C114	B-2 Unmounted	②	.4	2	1/2 x 3/8"	<b>.95</b>
17C302	B-3M Selenium	③	.4	1 1/2	1 1/8" Sq.	<b>1.75</b>
17C303	S-1M Silicon	④	.45	16	1 1/8" Sq.	<b>2.25</b>
17C305	S-3M Selenium	⑤	.85	16	1 1/8" Sq.	<b>3.95</b>
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parking lots, etc. Fig. ⑥. 1 1/8" square. Max. voltage 120AC or DC. .2 watt  
max power dissipation. The resistance varies from a few hundred ohms in  
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voltage (60 volts) units are ideal in transistorized circuits. Request design  
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Stk. No.	Mfg. No.	Type	Fig.	Size	Max. Volts	1-9 Ea. 10-50 Ea.
20A60	CL504	Cd Se	①	1/2 x 1/2"	250	<b>\$4.00 \$3.40</b>
20A61	CL504L	Cd Se	②	1/2 x 1/2"	60	<b>4.00 3.40</b>
20A63	CL505	Cd Su	③	1/2 x 1/2"	250	<b>4.00 3.40</b>
20A64	CL505L	Cd Su	④	1/2 x 1/2"	60	<b>4.00 3.40</b>
20A66	CL603	Cd Se	⑤	1/2 x 1/2"	300	<b>4.00 3.40</b>
20A67	CL603A	Cd Se	⑥	1/2 x 1/2"	300	<b>4.00 3.40</b>
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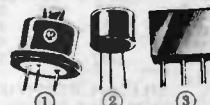
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Tube Type	Make	1-4 Each	5-up Each	Tube Type	Make	1-4 Each	5-up Each
OA2	RCA	1.46	1.24	PL-175A	Penta	50.00	50.00
OA3	RCA	1.54	1.30	250TH	Eim.	38.50	36.25
OA4G	RCA	1.86	1.58	250TL	Eim.	38.50	36.25
OB2	RCA	1.44	1.22	304TL	Eim.	64.50	60.00
OB2WA	Roy.	2.97	2.52	450TH	Eim.	75.00	71.25
OC3	RCA	1.50	1.28	450TL	Eim.	75.00	71.25
OD3	RCA	1.44	1.22	502A	GE	2.30	1.96
OG3/8582	Amp.	2.30	2.30	CK506AX	Roy.	2.30	2.02
OZ4A	Roy.	1.12	1.12	CK512AX	Roy.	2.77	2.47
1AD4	Roy.	2.80	2.52	CK526AX	Roy.	4.59	4.10
1AE4	Roy.	4.50	4.05	CK533AX	Roy.	2.94	2.62
1AG4	Roy.	3.05	2.75	CK534AX	Roy.	3.01	2.69
1AG5	Roy.	2.05	1.85	NL-604	N.E.	11.80	11.80
1AK4	Roy.	5.82	5.24	NL-604L	N.E.	13.00	13.00
1C21	RCA	4.15	3.53	NL606L	N.E.	21.90	21.90
1P39	RCA	2.30	2.00	NL-615	N.E.	9.75	9.75
1P40	RCA	3.75	3.25	NL-616	N.E.	10.00	10.00
1P41	RCA	4.00	3.50	NL-635	N.E.	13.00	13.00
2-01C	Eim.	18.50	18.50	NL-635L	N.E.	13.50	13.50
2AP1A	RCA	15.75	15.75	NL-635P	N.E.	14.15	14.15
2C39A	RCA	22.50	19.38	NL-649	N.E.	9.20	9.20
2C40	RCA	29.30	25.62	673	Amp.	22.15	22.15
2C40A	RCA	33.00	28.75	NL-710	N.E.	13.00	13.00
2D21	RCA	1.29	1.10	NL-715	N.E.	9.50	9.50
2E24	Roy.	5.25	4.62	NL-716	N.E.	12.50	12.50
2E26	RCA	3.85	3.57	NL-740L	N.E.	21.40	21.40
RK2K25	Roy.	34.80	34.80	NL-740P	N.E.	20.10	20.10
RK2K28A	Roy.	75.00	75.00	NL-760	N.E.	28.10	28.10
3A4	RCA	1.25	1.06	NL-760L	N.E.	29.40	29.40
3A5	RCA	2.03	1.82	NL-760P	N.E.	30.00	30.00
3A5	Roy.	1.78	1.51	805	RCA	22.10	21.25
3B4	Roy.	2.75	2.43	807	RCA	3.00	2.55
RK3B24W	Roy.	10.55	9.87	810	RCA	26.95	25.87
3B28	Amp.	6.50	6.50	811A	RCA	6.90	5.87
3C23	Amp.	11.98	10.12	812A	RCA	6.90	5.87
NL-3C23	N.E.	11.98	11.98	813	RCA	23.15	22.25
3-CX100A5	Eim.	32.00	30.00	816	RCA	2.95	2.51
3-400Z	Eim.	52.00	49.75	826	RCA	28.40	27.31
3-X2500A3	Eim.	200.00	...	828	RCA	32.95	31.71
4-65A	Eim.	28.50	26.87	829B	RCA	19.00	16.15
4-125A	Eim.	36.00	33.75	832A	RCA	15.90	15.90
4-125A	Amp.	36.00	33.75	833A	RCA	53.65	51.56
4-250A	Eim.	46.50	43.75	833A	Amp.	53.65	51.56
4-400A	Eim.	48.00	45.00	866A	RCA	2.90	2.46
4-1000A	Eim.	132.00	...	RK-866A	Roy.	2.90	2.46
4-CX250B	Eim.	39.00	36.87	866AX	Amp.	2.65	2.25
4-CX300A	Eim.	55.00	52.50	868	RCA	3.90	3.37
4-CX1000A	Eim.	156.00	...	872AX	Amp.	9.90	8.69
4E27A/				884	RCA	2.28	1.94
5-125B	Eim.	50.00	46.87	885	RCA	2.00	1.75
4-X150A	Eim.	25.00	23.44	892R	RCA	425.00	...
4-X150G	Eim.	58.00	54.40	918	RCA	4.45	3.88
4-X250B	Eim.	39.35	36.90	921	RCA	3.50	3.06
4X250B	Amp.	36.50	34.25	922	RCA	3.10	2.69
4-X500A	Eim.	128.50	...	923	RCA	3.40	2.94
5B1P1A	RCA	23.30	23.30	925	RCA	3.65	3.19
5R4GY	RCA	2.03	1.73	927	RCA	3.80	3.31
6AJ5	Roy.	3.95	3.43	929	RCA	2.15	1.87
6AN5	Roy.	3.75	3.35	930	RCA	3.10	2.69
6AS6	Roy.	3.43	3.06	931A	RCA	11.15	9.75
6CA7/EL34	Amp.	2.90	2.90	934	RCA	4.15	3.53
6ER5	Amp.	1.07	1.07	955	RCA	5.70	5.07
6J4	Roy.	4.19	3.74	991	RCA	.87	.77
6N7WGT	Roy.	2.34	2.09	CK1026	Roy.	4.34	3.87
6X4W	Roy.	1.60	1.44	NL1051A	N.E.	65.00	65.00
6X5WGT	Roy.	1.51	1.36	NL1052A	N.E.	99.00	99.00
7TP4	RCA	68.00	65.31	1612	RCA	4.60	4.10
8D21	RCA	1985.00	...	1614	RCA	4.10	3.69
12AT7WA	Roy.	2.95	2.65	1616	RCA	13.90	12.12
EL34	Mul.	3.72	3.35	1619	RCA	4.85	4.33
GZ34	Mul.	2.67	2.40	1620	RCA	6.99	5.94
35T	Eim.	21.50	20.00	1621	RCA	2.90	2.55
EL37	Mul.	3.99	3.59	1622	RCA	4.05	3.59
RK61	Roy.	4.20	3.72	1626	RCA	2.65	2.33
DM70	Mul.	1.23	1.11	1629	RCA	1.90	1.62
ECL80	Mul.	2.04	1.84	1631	RCA	3.45	3.00
EZ80/6V4	Amp.	.75	.69	1635	RCA	2.86	2.55
ECC81/12AT7	Amp.	1.55	1.30	2050	RCA	2.37	2.01
EM81/6DA5	Amp.	1.23	1.19	CK5517	Roy.	3.80	3.36
EZ81/6CA4	Amp.	1.05	.95	5544	GE	32.50	30.62
ECC82	Amp.	1.23	1.05	WL5550	Wes.	49.00	49.00
EFC82	Mul.	2.37	2.13	WL5551	Wes.	65.00	65.00
ECL82/6BM8	Amp.	1.60	1.31	WL5552	Wes.	99.00	99.00
ECL82	Mul.	1.86	1.67	WL5552A	Wes.	99.00	99.00
UCL82/50BM8	Amp.	1.50	1.31	5555	GE	316.00	316.00
ECC83/12AX7	Amp.	1.28	1.09	5557	GE	9.50	9.50
EL84	Mul.	1.47	1.32	5558	GE	17.50	15.31
EM84/6FG6	Amp.	1.48	1.40	5560	GE	33.00	29.87
ECC85/6AQ8	Amp.	1.45	1.19	5581	RCA	3.45	3.10
ECC86	Amp.	2.28	2.05	5582	RCA	5.40	4.69
EFC86/6267	Amp.	1.38	1.15	5583	RCA	4.80	4.19
EL86/6CW5	Amp.	1.43	1.20	NL5632/C3J	N.E.	13.80	13.80
ECC88/6DJ8	Amp.	1.89	1.89	5642	RCA	2.45	2.16
EBF89/6BC8	Mul.	1.95	1.75	CK5651	Roy.	1.78	1.59
EZ90	Mul.	1.02	.92	CK5654	Roy.	3.05	2.59
ECC91/6J6	Amp.	1.40	1.20	5670	GE	3.70	3.15
EF94	Mul.	1.26	1.13	CK5672	Roy.	2.27	1.93
100TH	Eim.	23.60	23.60	CK5676	Roy.	3.05	2.69
FG105	GE	59.00	52.50	CK5678	Roy.	2.27	2.02
PL-172	Penta	135.00	...	CK5686	Roy.	3.41	2.90
				CK5687	Roy.	4.00	3.40

Tube Type	Make	1-4 Each	5-up Each	Tube Type	Make	1-4 Each	5-up Each
CK5687WA	Roy.	7.80	6.96	6203	GE	4.10	3.69
5691	RCA	8.75	7.79	6211	RCA	2.15	1.89
5692	RCA	8.25	7.35	6227	Amp.	3.05	2.75
5693	RCA	6.60	5.87	6252	Amp.	25.00	23.75
5696	RCA	2.05	1.80	6293	RCA	6.40	5.44
RK5721	Roy.	150.00	...	6299	GE	52.50	52.50
5725	GE-Roy.	3.80	3.23	6306	Vic.	10.00	10.00
CK5726	Roy.	1.55	1.37	6350	RCA	1.95	1.66
5727	RCA	2.90	2.47	6360	Amp.	5.15	5.15
CK5749	Roy.	2.20	1.97	CK6397	Roy.	8.30	7.43
5750	RCA	3.45	3.10	6417	RCA	2.53	2.28
5751	GE	2.95	2.51	CK6418	Roy.	3.05	2.69
5762	RCA	230.00	...	6442	GE	39.25	39.25
5763	RCA	2.53	2.15	CK6485	Roy.	2.05	1.86
CK5763	Roy.	2.53	2.15	CK6550	Roy.	4.95	3.81
CK5814A	Roy.	3.30	2.80	6661/6BH6	RCA	1.34	1.20
5820	RCA	1200.00	...	6662/6BJ6	RCA	1.29	1.16
5823	RCA	1.75	1.65	6663/6AL5	RCA	.92	.83
5842	Amp.	14.90	13.31	6669/6AQ5	RCA	1.06	.96
5847	Amp.	14.90	13.31	6677/6CL6	RCA	1.85	1.67
5866	Amp.	20.00	17.50	6678/6U8A	RCA	1.62	1.46
5868	Amp.	60.00	56.20	6679/12AT7	RCA	1.50	1.35
5876	RCA	14.95	12.70	6680/12AU7	RCA	1.22	1.10
5879	GE	1.85	1.66	6681/12AX7	RCA	1.26	1.13
CK5879	Roy.	1.75	1.65	6686	Amp.	4.10	4.10
CK5886	Roy.	5.00	4.46	6688	Amp.	6.80	6.00
5894	Amp.	25.00	23.75	6807	GE	29.30	27.12
5899	RCA	6.55	5.57	6883	RCA	5.00	4.50
5915	RCA	1.65	1.40	6884	RCA	60.00	56.25
5963	RCA	1.50	1.30	6887	RCA	1.25	1.12
CK5963	Roy.	1.54	1.31	6893	RCA	4.45	4.00
5964	RCA	1.55	1.37	6897	GE	32.15	29.69
5965	RCA	1.95	1.71	6922/E88CC	Amp.	4.75	4.50
6005	GE-Roy.	3.95	3.36	7054	RCA	1.55	1.39
6012	RCA	7.65	6.50	7055	RCA	1.00	.90
NL6014/C1K	N.E.	13.10	13.10	7056	RCA	1.20	1.08
CK6021	Roy.	4.07	3.64	7059	RCA	1.75	1.57
6072	GE	3.90	3.60	7060	RCA	1.95	1.75
6073	RCA	3.00	2.55	7061	RCA	1.30	1.17
6080	RCA	5.35	4.76	7163	RCA	2.80	2.52
6083	Amp.	14.25	13.75	7189	Mul.	1.83	1.65
6084	Amp.	3.00	3.00	7293	GE	1300.00	...
CK6087	Roy.	5.75	5.10	7360	RCA	3.80	3.42
CK6135	Roy.	2.40	2.11	7534	Amp.	15.26	15.26
6136	RCA	2.75	2.34	7586	RCA	3.35	2.96
CK6136	Roy.	2.80	2.46	7587	RCA	5.20	4.60
6146	RCA	5.00	4.25	7629	GE	1800.00	...
6146	Amp.	5.00	4.25	7643	Amp.	3.60	3.60
CK6146	Roy.	5.00	4.25	7846	RCA	2.35	2.11
6159	RCA	5.00	4.50	7895	RCA	3.35	2.97
6186	RCA	3.85	3.46	8008	RCA	10.65	9.31
6189	RCA	3.70	3.33	8008AX	Amp.	10.65	9.31
6197	RCA	3.05	2.88	9002	Roy.	3.85	3.43
6201	GE	2.95	2.51	9003	RCA	5.40	5.40
6201	Amp.	2.95	2.62	9006	RCA	2.70	2.41
CK6202	Roy.	2.85	2.54				

## GENERAL ELECTRIC TRANSISTORS—DIODES

The GE line includes Transistors for RF-IF computer and audio, Silicon, germanium and tunnel diodes for a wide variety of applications. B-A can supply the complete line of GE semiconductors at factory OEM prices. When ordering give Stk. No. & Mtg. Number.



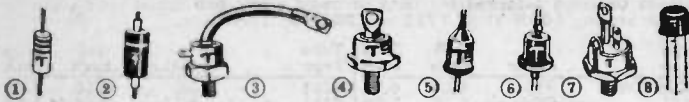
### ① GE TRANSISTORS



# Transistors, Rectifiers, Diodes

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### GERMANIUM DIODES

#### ① Phenolic Pkg. Stk. No. 44B1

Mfd. No.	PIV	F.C. MA	1-99 Each	100 Up Each
IN38A	100	50	\$0.80	\$0.65
IN54A	50	50	.42	.32
IN56A	40	60	.44	.36
IN58	100	60	.55	.41
IN58A	100	50	.55	.41
IN63	100	60	.90	.60
IN69A	70	40	.39	.30
IN70A	100	40	.51	.38

### ① STABISTORS

Stk. No. 44B7  
S320G Germanium, others Silicon.

Mfg. No.	F.V.	MA	1-99 Each	100 Up Each
SG22	.64±10%		\$0.64	\$0.45
SM72	90±15%	100	1.50	1.00
S320G	.26±20%		.60	.42

### SILICON CONTROLLED RECTIFIERS

Stk. No. 44B10

Mfg. No.	PIV	F.C. Amp	1-99 Each	100 Up Each
TCR501	50	1	\$13.00	\$ 8.70
2N1595	50	1	7.65	5.10
2N1596	100	1	10.65	7.10
2N1597	200	1	15.00	10.00

### ① 1/8" Stud Mounted Types

Stk. No. 44B11

Mfg. No.	PIV	F.C. Amp	1-99 Each	100 Up Each
TCR505	50	5	\$ 7.65	\$ 5.10
TCR1005	100	5	10.65	7.10
TCR1505	150	5	13.20	8.80
TCR2005	200	5	15.00	10.00

### ① 1/2" Stud Mounted Types

Stk. No. 44B12

Mfg. No.	PIV	F.C. Amp	1-99 Each	100 Up Each
TCR520	50	20	\$17.50	\$10.50
TCR1520	150	20	28.00	17.00
TCR2020	200	20	33.00	20.00
TCR2520	250	20	41.50	25.00

### ① GERMANIUM TUNNEL DIODES

Stk. No. 44B13

Mfg. No.	Type	1-99 Ea.	100 Up
TD55	5 MA	\$7.50	\$5.00
TD510	5 MA	6.25	4.15
TD110	1 MA	7.50	5.00
BD5	Backward Diode	4.00	3.00

### SILICON REGULATORS

① 250 MW Stk. No. 44B14

Mfg. No.	Volts	1-99 Ea.	100 Up
IN761	4.3-5.4	\$2.10	\$1.60
IN763	6.2-8.0	2.10	1.60
IN764	7.5-10	2.10	1.60
IN765	9-12	2.10	1.60
IN766	11-14.5	2.10	1.60
IN767	13.5-18	2.10	1.60
IN768	17-21	2.10	1.60
IN769	20-27	2.10	1.60

### ① 750 MW Stk. No. 44B15

Mfg. No.	Volts	1-99 Ea.	100 Up
IN2032	4.3-5.4	\$3.50	\$2.80
IN2033	5.2-6.4	3.50	2.80
IN2034	6.2-8	3.50	2.80
IN2035	7.5-10	3.50	2.80
IN2036	9-12	3.50	2.80
IN2037	11-14.5	3.50	2.80
IN2038	13.5-18	3.50	2.80
IN2039	17-21	3.50	2.80
IN2040	20-27	3.50	2.80

### ① 1 Watt Stk. No. 44B16

Mfg. No.	Volts	1-99 Ea.	100 Up
IN3016	6.8±20%	\$2.95	\$2.30
IN3022	12±20%	2.95	2.30
IN3025	16±20%	2.95	2.30
IN3030	27±20%	2.95	2.30
IN3032	33±20%	3.25	2.60

### ① 10-Watt Stk. No. 44B17

Mfg. No.	Volts	1-99 Ea.	100 Up
IN2041	4.3-5.4	\$9.00	\$6.75
IN2042	5.2-6.4	9.00	6.75
IN2043	6.2-8	7.00	5.60
IN2044	7.5-10	7.00	5.60
IN2045	9-12	7.00	5.60
IN2046	11-14.5	7.00	5.60
IN2047	13.5-18	7.00	5.60
IN2048	17-21	7.00	5.60
IN2049	20-27	7.00	5.60

### SILICON TRANSISTORS

① Small Signal NPN Type Stk. No. 44B18

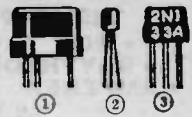
Mfg. No.	VCE	HFE	1-99 Ea.	100 Up
2N332	45	14	\$4.65	\$3.10
2N337	45	55	4.85	3.20
2N338	45	150	6.15	4.10
2N474	30	30	6.40	4.30
2N706	25	35	6.40	3.60
2N844	60	80	11.60	7.75
ST1176	45	30	2.80	1.10
2N1417	15	60	1.30	1.60
2N1418	30	60	2.75	1.90

### ① Medium Power NPN Stk. No. 44B19

Mfg. No.	VCE	HFE	1-99 Ea.	100 Up
2N549	60	35	\$16.00	\$11.20
2N696	40	40	6.00	4.00
2N697	40	75	7.65	5.10
2N728	15	40	15.00	10.00
2N729	30	40	18.00	12.00
ST4201	45	20	4.60	3.00
ST4202	75	20	7.20	4.75

## RAYTHEON TRANSISTORS

The entire line of Raytheon Semi-Conductors are available from B-A. You may select with confidence all your requirements in Germanium or Silicon Transistors, Diodes. B-A offers factory OEM quantity prices on all Raytheon semiconductors.



### Order by Group Stock No. and Mfg. Part No. GENERAL PURPOSE GERMANIUM Stk. No. 41A30

Mfg. No.	Fig.	Description and Use	1-99 Each	100 Up Each
CK65	2	Audio PNP	\$2.48	\$1.65
CK66	2	Audio PNP	2.85	1.90
2N362	3	PNP	.83	.55
2N363	3	PNP	.72	.48
2N413	1	RF-PNP	.93	.62
2N414	1	RF-PNP	.96	.64
2N416	1	RF-PNP	1.80	1.20
2N417	1	RF-PNP	2.62	1.75
2N422	3	Audio PNP	1.95	1.30
2N425	1	Comp. PNP	1.20	.80
2N426	1	Comp. PNP	1.35	.90
2N428	1	Comp. PNP	2.62	1.75
2N464	1	Audio PNP	1.65	1.10
2N465	1	Audio PNP	1.65	1.10
2N466	1	Audio PNP	1.80	1.17
2N467	1	Audio PNP	2.25	1.47
2N481	1	Osc.-PNP	.85	.50
2N482	1	IF-PNP	.83	.55
2N483	1	IF-PNP	.86	.57
2N484	1	IF-PNP	.89	.59
2N485	1	Conv. PNP	.89	.59

### New sub-miniature Silicon Transistors only .130" dia. x .16" high. Stk. No. 41A30

Mfg. No.	Fig.	Description and use	Net 1-99	Each 100 Up
2N745	2	NPN	\$17.75	\$11.85
2N751	2	NPN	11.25	7.50
2N790	2	NPN	13.05	8.70
2N799	2	NPN	2.85	1.90
2N800	2	NPN	3.14	2.09
2N815	2	NPN	5.85	3.90
2N823	2	NPN	3.38	2.25
2N824	2	NPN	3.70	2.47

### ① Amp High Freq. Switching Stk. No. 41A30

2N658	3	Comp. PNP	\$ 1.95	\$ 1.30
2N659	3	Comp. PNP	2.70	1.80
CK721	3	Audio PNP	2.40	1.60

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Transist. Applications Book for above.		
No. 25A231	Net Each	.....50c

### Germanium RADIO RECEIVER TYPE

2N631	3	Output PNP	.90	.60
2N632	3	Output PNP	.72	.48
2N633	3	Output PNP	.69	.46

### HIGH OUTPUT TYPE 2N155

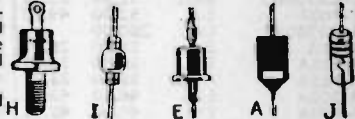
Replacement for audio output transistor in 12 volt auto sets. Replaces all following types 2N176, 2N235, 2N250, 2N257, 2N258, 2N301, AR5, Class A or B audio 2N155 is 1.53" overall, .45" high with .47" pins.

No. 20B852. Net Each .....\$2.83



## RAYTHEON DIODES AND RECTIFIERS

Combine extremely low forward resistance with high reverse resistance and high forward current. Very small size is combined with rugged strength and uniform electrical characteristics.



Write BA for Quantity Prices on all H Semi-Conductors.

### Stock No. 41A40

GENERAL PURPOSE GERMANIUM					DIFFUSED JUNCTION SILICON				
Mfg. No.	Fig.	Peak IN. V.	Net 1-99	Each 100 Up	Mfg. No.	Fig.	Peak IN. V.	Net 1-99	Each 100 Up
IN34A	A	60	\$0.35	\$0.23	IN253	H	95	\$1.58	\$1.05
IN55B	A	150	1.10	.85	IN254	H	190	1.76	1.17
IN66A	A	60	.40	.31	IN536	I	50	.66	.44
IN67A	A	80	.70	.48	IN537	I	100	.74	.49
IN68A	A	100	.75	.55	IN538	I	200	.76	.51
IN82A	A	5	1.05	.80	IN539	I	300	.91	.61
IN95A	A	60	.52	.35	IN540	I	400	1.07	.71
IN126A	J	60	.44	.34	2 AMP AT VOLTAGE SHOWN				
IN127A	J	100	.91	.71	IN1096	E	600	1.65	1.10
IN294A	A	60	.52	.40	IN1763	E	400	.92	.62
IN297A	A	80	.72	.55	IN1764	E	500	1.12	.75

## CLEVITE POWER TRANSISTORS

High reliability Clevite power transistors for power converters, audio amplifiers, and high current switching circuits. All Clevite Products are available at B-A at OEM prices. \*New space saver type, oblong base .43" wide, 1.5" long.



Stock No.	Mfg. No.	IC Amps	1-99 Ea.	100 Up Each	Stock No.	Mfg. No.	Col. to Base Max. V.	1-99 Ea.	100 Up Each
5 Amp Switching					15 Amp Switching				
44A262	2N1539	5	\$2.30	\$1.55	44A185	2N255	20	\$1.20	\$0.80
44A263	2N1540	5	2.40	1.60	44A186	2N256	40	1.35	.90
44A264	2N1541	5	4.20	2.80	44A187	2N257	40	1.75	1.20
44A265	2N1542	5	5.45	3.65	44A188	2N268	80	3.75	2.45
44A267	2N1545	5	2.90	1.95	44A190	2N297A	60	4.35	2.90
44A268	2N1546	5	4.50	3.00	44A240	2N301	40	1.95	1.30
44A269	2N1547	5	9.00	6.00	44A242	2N1146	40	4.50	3.00
					44A243	2N1146A	60	5.25	3.65
					44A246	2N1755*	40	2.46	1.65
					44A252	2N1756*	60	2.50	1.70
					44A247	2N1757*	80	3.85	2.90
					44A249	2N1759*	40	2.55	1.70
					44A253	2N1760*	60	2.80	1.75
					44A250	2N1761*	80	4.75	3.15

## SPECIAL PURCHASE AT LOWEST COST

HIGH QUALITY CBS SUB-MINIATURE IN34

Latest sub-miniature glass type design. The industries most versatile diode with hundreds of applications in all types of electrical circuitry.

actual size **29c** EACH 100 LOTS

St. No. 18C497

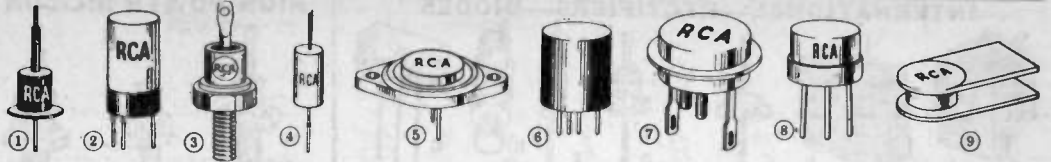
1-24-Ea.	25-99 Ea.	100 Up
39c	36c	29c



# RCA, Sarkes Tarzian Semiconductors

## B-A STOCKS ARE COMPLETE

Prices are lowest OEM Factory Schedule.  
Order by Group Stock Number and Manufacturer's Number.



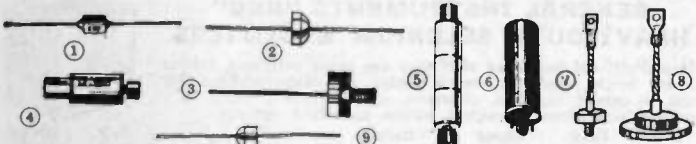
LISTED IN NUMERICAL SEQUENCE WITH GENERAL CLASSIFICATION OF USAGE  
TRANSISTORS Order Stock No. 41A10 and Manufacturer No.

Mfg. No.	Use	Fig.	1-99 Each	100 Up Each	Mfg. No.	Use	Fig.	1-99 Each	100 Up Each
2N104	Audio	2	\$ 1.82	\$ 1.21	2N591	Audio	2	.74	.50
2N109	Audio	2	1.24	.83	2N643	Computer	8	2.92	1.95
2N139	IF	2	1.49	.99	2N644	Computer	8	4.42	2.95
2N140	Conv.	2	1.53	1.02	2N645	Computer	8	5.78	3.85
2N173	Power	5	6.01	4.00	2N647	Audio	2	1.16	.77
2N174	Power	2	7.13	4.75	2N649	Audio	2	.86	.57
2N175	Audio	2	1.63	1.09	2N656	Sil. Powr.	8	21.55	14.35
2N176	Audio	5	1.88	1.25	2N705	Computer	8	7.66	5.10
2N215	Audio	2	1.73	1.16	2N706A	Computer	8	7.65	5.10
2N217	Audio	2	1.16	.77	2N710	Computer	8	6.75	4.50
2N218	Radio	2	1.40	.94	2N711	Computer	8	2.92	1.95
2N219	Radio	2	1.45	.97	2N794	Computer	8	2.64	1.76
2N220	Radio	2	1.55	1.03	2N795	Computer	8	4.54	3.03
2N269	Computer	2	1.98	1.32	2N796	Computer	8	6.19	4.13
2N270	Audio	6	1.32	.88	2N934	Computer	8	6.60	4.40
2N274	Comm.	2	1.65	1.10	2N1010	Audio	2	2.89	1.93
2N277	Power	7	3.51	2.34	2N1023	Comm.	2	3.88	2.59
2N278	Power	7	4.92	3.28	2N1066	Comm.	8	4.13	2.75
2N301	Power	5	1.98	1.32	2N1067	Power	8	20.95	13.95
2N301A	Power	5	4.50	3.00	2N1068	Power	8	21.95	14.65
2N307	Hobby	5	1.49	.99	2N1069	Power	5	49.90	33.30
2N351	Power	5	2.03	1.35	2N1070	Power	5	64.95	43.30
2N370	RF	6	1.49	.99	2N1090	Computer	8	1.40	.94
2N371	RF	6	1.40	.94	2N1091	Computer	8	2.23	1.49
2N372	RF	6	1.40	.94	2N1092	Power	8	10.75	7.15
2N376	Power	5	2.10	1.40	2N1099	Power	7	9.83	6.55
2N384	Comm.	2	2.48	1.65	2N1100	Power	7	18.00	12.00
2N398	Computer	8	1.86	1.24	2N1169	Computer	8	3.71	2.48
2N404	Computer	8	.99	.66	2N1170	Computer	8	5.20	3.47
2N405	Audio	2	.68	.41	2N1177	Radio	6	1.65	1.10
2N406	Audio	2	.68	.45	2N1178	Radio	6	1.49	.99
2N407	Audio	2	.73	.48	2N1179	Radio	6	1.49	.99
2N408	RF	2	.73	.48	2N1180	Radio	6	1.12	.75
2N409	RF	2	.86	.52	2N1183	Power	8	2.06	1.38
2N411	Conv.	2	.89	.59	2N1183A	Power	8	2.72	1.82
2N412	Radio	2	.89	.59	2N1183B	Power	8	3.30	2.20
2N414	Computer	2	.97	.65	2N1184	Power	8	4.13	2.75
2N441	Power	7	3.17	2.11	2N1184A	Power	8	4.95	3.30
2N442	Power	7	4.54	3.03	2N1184B	Power	8	7.43	4.95
2N443	Power	7	5.64	3.76	2N1213	Thyristor	8	7.84	5.23
2N497	Sil. Powr.	8	15.70	10.45	2N1214	Thyristor	8	7.84	5.23
2N578	Computer	8	2.48	1.65	2N1215	Thyristor	8	7.84	5.23
2N579	Computer	8	3.30	2.20	2N1216	Thyristor	8	4.95	3.30
2N580	Radio	8	4.50	3.00	2N1224	Comm.	2	2.06	1.38
2N581	Radio	8	.99	.66	2N1225	Comm.	8	2.89	1.93
2N582	Radio	8	2.23	1.49	2N1226	Comm.	8	3.30	2.20
2N583	Radio	2	1.82	1.21	2N1300	Computer	8	2.06	1.38
2N584	Radio	2	3.22	2.15	2N1301	Computer	8	2.72	1.82
2N585	Radio	8	1.07	.72	2N1319	Computer	8	5.20	3.47
2N586	Computer	6	1.73	1.16	2N1358	Power	2	16.50	11.00

## SILICON RECTIFIERS

Stk. No.	Mfg. No.	PIV	1-99	100 Up	Stk. No.	Mfg. No.	PIV	1-99	100 Up
1N440B	100	\$ 0.83	\$ 0.55		1N3128	Germanium	9.24	\$ 6.16	
1N441B	200	.86	.57		1N3129	Germanium	13.79	9.20	
1N442B	300	.99	.66		1N3130	Germanium	13.37	8.91	
1N443B	400	1.24	.83		1N3138	Gallium Arsen.	36.30	24.20	
1N444B	500	1.40	.94						
1N445B	600	1.82	1.21						
① 500 MA General Purpose									
1N536	50	\$ 0.73	\$ 0.48						
1N537	100	.74	.50						
1N538	200	.76	.51						
JAN1N538	200	.78	.52						
1N539	300	.91	.61						
1N540	400	1.07	.72						
1N547	600	1.65	1.10						
1N1095	500	1.24	.83						
1N1763	400	.89	.59						
1N1764	500	1.12	.75						
1N2858	50	.63	.42						
1N2859	100	.66	.44						
1N2860	200	.74	.50						
1N2861	300	.83	.55						
1N2862	400	.99	.66						
1N2863	500	1.15	.77						
1N2864	600	1.57	1.05						
② 750 MA General Purpose									
1N3193	200	\$ 0.76	\$ 0.51						
1N3194	400	.96	.64						
1N3195	600	1.49	.99						
1N3196	800	1.82	1.21						
③ 20 Amp. Stud Mfg.									
1N248C	50	\$ 4.87	\$ 3.25						
1N249C	100	6.07	4.05						
1N250C	200	8.25	5.50						
1N1195A	300	10.05	6.70						
1N1196A	400	14.26	9.50						
1N1197A	500	19.50	13.00						
1N1198A	600	26.99	18.00						
④ 12 Amp. Stud Mfg.									
1N1199A	50	\$ 2.85	\$ 1.90						
1N1200A	100	3.30	2.20						
1N1202A	200	5.86	3.90						
1N1203A	300	8.55	5.70						
1N1204A	400	10.20	6.80						
1N1205A	500	14.55	9.70						
1N1206A	600	17.24	11.50						
⑤ TUNNEL DIODES Stk. No. 41A12									
1N3128	Germanium	9.24	\$ 6.16						
1N3129	Germanium	13.79	9.20						
1N3130	Germanium	13.37	8.91						
1N3138	Gallium Arsen.	36.30	24.20						

## SARKES TARZIAN SILICON RECTIFIERS



B-A can supply all Sarkes Tarzian Rectifiers at factory OEM Net Prices.

① ("F") SERIES .5 AMP. Feature extreme small size, only .275" dia. x .25" high. Pigtail leads for solder-in mounting.

Stk. No.	Mfg. No.	PIV	Amp	Net Ea.
17A108	F-2	200	.5	\$1.20
17A116	F-4	400	.5	1.15
17A117	F-6	600	.5	1.25

② (S) Tube Replacement Type Plugs in tube socket. Requires no filament. Instant acting, highly efficient indefinite life. Also provides better regulation and much cooler operation.

Stk. No.	Mfg. No.	Replaces	1-9 Ea.
17A203	S5017	OZ4-5Y4-6X5	13.00
17A207	S5251	5U4-5Y3 etc	6.10
17A210	S5033	6AU4-6W4 etc	20.45
17A211	S5130	866A-3B28	29.15
17A208	S5207	6X4-6063	13.00
17A180	S5018	5AU4-5T4	13.00
		5U4-5Y3-5Z4	13.00

③ (M) SERIES Clip-in type popular with servicemen, and for industrial applications. Body .27" ferrule 1/4". All are 500 mil except M150 which is 150 Mil.

Stk. No.	Mfg. No.	PIV	1-9	10-49
17A130	10M	100	\$1.20	\$1.10
17A132	20M	200	1.26	1.16
17A134	30M	300	1.35	1.25

④ (J) SERIES 1.5 amp. space saving type, wire leads.

Stk. No.	Mfg. No.	PIV	1-9	10-49
17A135	10J1	100	\$3.15	\$2.65
17A138	20J1	200	3.86	3.30
17A139	30J1	300	4.61	3.84
17A151	40J1	400	5.64	4.68

⑤ (J-2) SERIES 10 amp. Stud mtg., 1 wire lead.

Stk. No.	Mfg. No.	PIV	1-9	10-49
17A152	10J2	100	\$3.15	\$2.65
17A153	20J2	200	3.86	3.30
17A154	30J2	300	4.61	3.84
17A155	40J2	400	5.64	4.68

⑥ (J3) SERIES 12 Amp. Stud mounting with wire lead and solder lug connection.

Stk. No.	Mfg. No.	PIV	1-9	10-49
17B100	10J3	100	\$3.30	\$2.80
17B101	20J3	200	3.91	3.45
17B102	30J3	300	4.76	3.99
17B103	40J3	400	5.79	4.83
17B104	50J3	500	8.14	6.88
17B107	60J3	600	9.04	7.58

## HIGH CURRENT TYPE

Stk. No.	Mfg. No.	PIV	MA	25° C	1-9 Ea.	Stk. No.	Mfg. No.	PIV	Amp.	1-9 Ea.
17C105	S5518	1000	200	\$ 5.90		17A182	80SM	800	.45	\$4.28
17C131	S5520	2000	200	11.10		17A212	120SM	1200	.425	6.43
17C145	S5522	5000	100	20.70		17A190	160SM	1600	.4	8.57
17C181	S5530	6000	-100	25.70		17A213	200SM	2000	.375	10.70
17C196	S5531	10000	75	39.70		17A191	280SM	2800	.325	15.00

## HIGH CURRENT SERIES

Half wave units, for single or polyphase applications up to 480 amps. Others available for up to 960 amps. Last letter of Mfg. Number: N for negative base, P for positive. Request details and free Silicon Rectifier Handbook No. 25A145.

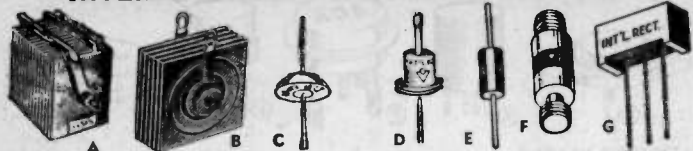
Factory OEM prices apply on all larger quantities. Contact B-A for quotes.

Stock No.	Mfg. No.	PIV	1-9	10-49	Stock No.	Mfg. No.	PIV	1-9	10-49
17A214	5R3N	50	\$4.90	\$4.20	17A241	40S3N	400	\$9.70	\$8.20
17A217	5R3P	50	4.90	4.20	17B136	50S3N	500	10.70	9.00
17A218	20R3N	200	6.10	5.15	17B137	50S3P	500	10.70	9.00
17A219	20R3P	200	6.10	5.15	17B141	60S3N	600	11.10	9.90
17A220	30R3N	300	7.50	6.30	17B142	60S3P	600	11.10	9.90
17A230	30R3P	300	7.50	6.30	⑦ 100 AMP SERIES				
17B109	50R3N	500	9.10	7.75	17B243	40V3N	400	21.70	18.80
17B111	50R3P	500	9.10	7.75	17A244	40V3P	400	21.70	18.80
17B112	60R3N	600	1						



# International Rectifiers and Diodes

## INTERNATIONAL—RECTIFIERS—DIODES



Produced by the world's largest industrial rectifier manufacturer. Features reliable performance, advanced design and a wide selection. B-A can supply all International Rectifiers at Factory OEM Prices.

Fig. (A) INDUSTRIAL SELENIUM STACKS

Stock No.	Mfg. No.	Input AC Volts	DC Output Volts	Output Amps	Size Inches	1-9 Each	10-99 Each
17A297	J29B04	36	29	4	1 x1 x1.5	\$ 2.36	\$ 1.97
29B333	J29B5	36	29	4.8	3 x3 x2.63	6.43	5.63
41A59	J29B1	36	29	1.5	1.5 x1.5 x1.5	2.28	1.90
41A60	J29B8	36	29	8.4	4 x4 x2.63	9.93	7.44
41A61	J58B1	72	58	1.5	1.5 x1.5 x2.25	4.49	3.74
29B336	J58B5	72	58	4.5	3 x3 x4.2	12.08	10.07
29B338	J116B04	144	116	4	1 x1 x3.8	5.56	4.63
29B339	J116B1	144	116	1.5	1/2 x1/2 x3.8	8.15	6.80
41A63	J116B5	144	116	4.8	3 x3 x7.19	22.91	19.10
29B341	J135B1	180	135	1.5	1.5 x1.5 x4.56	9.93	8.28

Fig. (A) BATTERY CHARGING TYPES

JD4346B is a universal fast charge type, fits most 100 amp units. Other types may be used singly or in multiples for various circuits.

Stock No.	Mfg. No.	Input V.A.C.	Output DC V.	Output Amps	Size Inches	1-9 Each	10-99 Each
29A272	JD4346B	16-35	6-12	30 to 100	6x5x4 1/8	\$16.75	\$13.95
41A64	JD116K	16.5	6-12	2	3x3x .5	1.20	.96
41A65	JD117K	16.5	6-12	3	4x4x .5	1.80	1.44
41A66	JD241K	16.5	6-12	6	6x5x .5	2.48	1.97

Fig. (B) RADIO & TV HIGH DENSITY SELENIUM TYPES

Stock No.	Mfg. No.	DC MA	Max. RMS Volts	Size Inches	1-9 Each	10-99 Each
17C175	T065-T075	65-75	130	.67x .67x 3/4	\$0.80	\$0.56
17C176	T075-T150	75-150	130	.67x .67x 1 1/8	.89	.62
17C179	T200-T300	200-300	130	1 1/4 x1 1/2 x1 3/8	1.30	1.17
17A298	T450-T500	400-500	130	1 1/2 x1 1/2 x 5/8	1.50	1.35

### SILICON DIODE RECTIFIERS FOR RADIO, TV & AUDIO

Hermetically sealed fused junction type. Miniature size, long life. Fig C type SE4 is 3/8 dia. x 3/8" thick; Fig. D type SD .4 x .26". Fig E are .2 x .365 axial leads; Fig. F 1" overall x .31 dia.

Stock No.	Mfg. No.	Fig.	PIV	MA	1-9	10-99
17A223	SE4	C	400	350	\$0.90	\$0.75
41A58	SA4	E	400	750	1.35	1.07
41A67	SA4-95	E	5A4's	Box of 5	6.50	...
17B291	SD500	D	400	500	1.05	.97
41A68	SD500-92	D	SD500's W/Mtg. Hdwe.	Box of 2	2.30	2.15
41A69	SM4	F	Plug-in 750 MA/400 PRV		1.60	1.40
41A70	SM4K	F	SM4's W/dual holder, Kit of 2		3.85	3.47

### TV PHASE DETECTOR DUAL DIODES

Stock No.	Mfg. No.	Fig.	TV Phase Det. Com. Cathode	TV Phase Det. Series Con.	TV Phase Det. Com. Anode	1-9	10-99
41A71	DDO4	G				.54	.....
41A72	DDO5	G				.54	.....
41A73	DDO6	G				.54	.....

### LOW TO MEDIUM POWER SILICON RECTIFIERS

Order by Group Stock Number and Manufacturers Type Number.

Fig. D Hermetically sealed—encapsulated. Fig. D High Temperature Type Rated 750 MA at 50° C; 250 MA at 150° C.

Stock No.	Mfg. No.	PRV	DC Out	1-99	100 Up	Stock No.	Mfg. No.	PRV	RMS In	1-99	100 Up
SD91	100	550	\$0.65	\$0.45		1N536	50	35	\$0.80	\$0.50	
SD92	200	550	.80	.50		1N538	200	140	1.19	.79	
SD93	300	550	.95	.60		Jan1N538	200	140	1.40	.94	
SD94	400	550	1.15	.70		1N540	400	280	1.80	1.20	
SD95	500	550	1.25	.84		Jan1N540	400	280	2.20	1.48	
SD91A	100	750	.67	.51							
SD92A	200	750	.86	.62							
SD93A	300	750	1.13	.82							
SD94A	400	750	1.47	.95							
SD95A	500	750	1.91	1.40							

Fig. E New Miniature Diffused Type Exceptional Stability and performance. .2 x .375 long. 625 MA resistive load.

Stock No.	Mfg. No.	PRV	DC Out	1-99	100 Up	Stock No.	Mfg. No.	PRV	RMS In	1-99	100 Up
SA2	200	140	\$1.10	\$0.90		10B1	100	70	\$0.88	\$0.66	
SA4	400	280	1.35	1.07		10B2	200	140	1.24	.95	
SA5	500	350	1.50	1.30		10B3	300	210	1.75	1.34	
SA6	600	420	1.80	1.45		10B4	400	280	2.48	1.89	
						10B5	500	350	3.48	2.65	
						10B6	600	420	4.89	3.75	

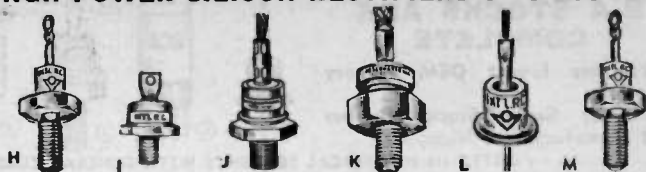
### AC AND DC CONTACT PROTECTORS

To prevent arcing and flashover of relay, switch and other component contacts. Highly reliable at very low cost. Small cartridge with pigtail leads for easy installation. Quantity prices on request.

#### AC TYPES

Stock No.	Mfg. No.	Work. V. AC	Coil Amp	Each	Stock No.	Mfg. No.	Max. V. DC	Coil Amp	Each
41A90	S1V1P	26	.2	\$0.89	41A74	S1V1P	22	.25	\$0.89
41A91	S2V2P	52	.2	1.07	41A75	S2V1P	44	.25	.90
41A92	S5V5P	130	.2	1.40	41A76	S3V2P	66	.25	1.07
41A93	S6V6P	156	.2	1.42	41A77	S6V2P	132	.25	1.25
41A94	S1Y1P	26	.4	.94	41A78	S7V2P	154	.25	1.26
41A95	S2Y2P	52	.4	1.13	41A79	S1Y1P	22	.60	.94
41A96	S3Y3P	78	.4	1.14	41A80	S2Y1P	44	.60	.94
41A97	S4Y4P	104	.4	1.38	41A81	S6Y2P	132	.60	1.37
41A98	S5Y5P	130	.4	1.56	41A82	S2Z1P	44	.90	1.47
41A99	S6Y6P	156	.4	1.58	41A83	S6Z2P	132	.90	2.27
41A101	S1Z1P	26	.6	1.35	41A84	S2X1P	44	1.4	1.74
41A102	S2Z5P	130	.6	2.49	41A85	S6X2P	132	1.4	2.67
41A103	S1W1P	26	1.2	1.87	41A86	S1W1P	22	2.	1.87
41A104	S5W5P	130	1.2	3.50	41A87	S6W2P	132	2.	3.14

## HIGH POWER SILICON RECTIFIERS 6 To 250 Amp



Stud mounted, hermetically sealed highly dependable long life units. Order by Group Stock Number and Manufacturers Number.

Mfg. No.	PRV	Volts	1-99 Ea.	100 Up	Mfg. No.	PRV	Volts	1-99 Ea.	100 Up
IN1341	50	\$ 2.75	\$ 1.75		IN2131A	200	\$ 7.10	\$ 4.90	
IN1342	100	3.25	2.00		IN2133A	300	9.90	6.80	
IN1344	200	4.50	3.05		IN2135A	400	13.95	9.20	
IN1345	300	6.25	4.10		IN2137A	500	19.25	13.70	
IN1346	400	8.25	5.80		Fig. (J) 45-150 Amp Stk. No. 41A56				
IN1347	500	9.75	8.50		IN3085	100	\$ 9.55	.....	
Fig. (H) 12 Amp Stk. No. 41A54					IN3086	200	14.20	.....	
IN1199	50	\$ 3.00	\$ 1.90		IN3087	300	20.80	.....	
IN1200	100	3.60	2.20		IN3088	400	29.80	.....	
IN1202	200	5.15	3.90		IN3089	500	37.80	.....	
IN1203	300	7.30	5.75		Fig. (K) 70-250 Amp Stk. No. 41A57				
IN1204	400	10.35	6.80		IN2055	100	\$14.90	.....	
IN1205	500	14.00	9.25		IN2057	200	20.80	.....	
Fig. (I) 25-35 Amp Stk. No. 41A55					IN2059	300	27.10	.....	
IN2128A	50	\$ 4.25	\$ 3.00		IN2061	400	39.65	.....	
IN2129A	100	5.05	3.40		IN2063	500	48.00	.....	

### SILICON ZENER DIODES

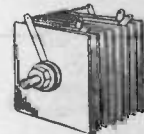
Hermetically sealed assuring maximum protection. Types with "A" suffix are 5% tolerance all others are 10%.

Fig. (L) 1-Watt Top Hat Type Stk. No. 41A51 Fig. (M) 10-Watt Stud Mtg. Type Stk. No. 41A50

JEDEC No.	Zener Volts	Max. Zener MA	1-99 Each	100 Up Each	JEDEC No.	Zener Volts	Max. Zener MA	1-99 Each	100 Up Each
IN1518	3.9	250	\$6.20	\$4.80	IN1599	3.9	2500	\$8.50	\$7.00
IN1518A	3.9	250	7.44	5.76	IN1599A	3.9	2500	10.20	8.40
IN1519	4.7	200	6.20	4.80	IN1600	4.7	2000	8.50	7.00
IN1519A	4.7	200	7.44	5.76	IN1600A	4.7	2000	8.52	6.72
IN1520	5.6	175	3.50	2.80	IN1601	5.6	1750	7.10	5.80
IN1520A	5.6	175	4.20	3.36	IN1601A	5.6	1750	8.52	6.72
IN1521	6.8	150	3.50	2.80	IN1602	6.8	1500	7.10	5.80
IN1521A	6.8	150	4.20	3.36	IN1602A	6.8	1500	8.52	6.72
IN1522	8.2	120	3.50	2.80	IN1603	8.2	1200	7.10	5.80
IN1522A	8.2	120	4.20	3.36	IN1603A	8.2	1200	9.00	7.20
IN1523	10	100	3.50	2.80	IN1604	10	1000	7.10	5.80
IN1523A	10	100	4.20	3.36	IN1604A	10	1000	8.52	6.72
IN1524	12	80	3.50	2.80	IN1605	12	850	7.10	5.80
IN1524A	12	80	4.20	3.36	IN1605A	12	850	8.52	6.72
IN1525	15	65	3.50	2.80	IN1606	15	650	7.10	5.80
IN1525A	15	65	4.20	3.36	IN1606A	15	650	8.52	6.72
IN1526	18	55	3.50	2.80	IN1607	18	550	7.10	5.80
IN1526A	18	55	4.20	3.36	IN1607A	18	550	8.52	6.72
IN1527	22	45	3.50	2.80	IN1608	22	450	7.10	5.80
IN1527A	22	45	4.20	3.36	IN1608A	22	450	8.52	6.72
IN1528	27	35	4.00	3.00	IN1609	27	350	7.10	5.80
IN1528A	27	35	4.80	3.60	IN1609A	27	350	8.52	6.72

### GENERAL INSTRUMENTS "HCD" HEAVY-DUTY SELENIUM RECTIFIERS

New Petti-Sel improved rectifiers are more efficient, longer lived. Single phase, full-wave bridge, dry-disc rectifiers. For use in power supplies, chargers, electroplating, etc. Fully guaranteed when operated within specified ratings.



Stock No.	Fact. No.	Input Volts	Output Volts	Amps	Size Inches	1-9 Each	10-24 Each
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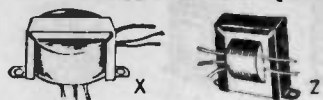


# Transistor & Instrument Transformers

## TRIAD HIGH QUALITY TRANSFORMERS

MINIATURE AUDIOS FOR TRANSISTOR APPLICATIONS

Last letter in Triad type indicates mounting style.  
Order by Group Stock No. 26A161 and Triad Type.



Triad Type	Primary Impedance	Secondary Impedance	Milli-watts	H.	Size W.	D.	Net Prices, Each		
							1-9	10-24	25-49
TY-23X	50K (5MA)	500CT	100	3/8	1 1/2	3/8	\$3.90	\$3.51	\$3.16
TY-24X	50K (5MA)	3KCT	200	3/8	1 1/2	3/8	4.53	4.08	3.87
TY-25X	100K (5MA)	200CT	200	3/8	1 1/2	3/8	4.62	4.16	3.74
TY-26X	100K (5MA)	3KCT	200	3/8	1 1/2	3/8	4.65	4.19	3.77
TY-32X	200CT(2MA)	2KCT	200	3/8	1 1/2	3/8	3.90	3.51	3.16
TY-33X	400CT(5MA)	16/8/4	200	3/8	1 1/2	3/8	3.90	3.51	3.16
TY-34X	400CT(5MA)	2KCT	200	3/8	1 1/2	3/8	3.90	3.51	3.16
TY-35X	500CT(2MA)	150CT	100	3/8	1 1/2	3/8	3.75	3.38	3.04
TY-36X	2K(2MA)	1.5KCT	200	3/8	1 1/2	3/8	3.90	3.51	3.16
TY-37X	2KCT(4MA)	8KCT	200	3/8	1 1/2	3/8	3.99	3.59	3.23
TY-38X	3KCT(4MA)	1KCT	200	3/8	1 1/2	3/8	3.99	3.59	3.23
TY-39X	4KCT(4MA)	16/8/4	200	3/8	1 1/2	3/8	4.05	3.65	3.28
TY-40X	5K(1MA)	200CT	100	3/8	1 1/2	3/8	3.75	3.38	3.04
TY-41X	16K(1MA)	4K	100	3/8	1 1/2	3/8	3.84	3.46	3.11
TY-42X	20K(5MA)	8/4	100	3/8	1 1/2	3/8	3.75	3.38	3.04
TY-43X	20K(5MA)	800CT	100	3/8	1 1/2	3/8	3.84	3.46	3.11
TY-45X	500CT(5MA)	16/8/4	200	3/8	1 1/2	3/8	3.87	3.48	3.13
TY-50X	125K(OMA)	2KCT	40	3/8	1 1/2	3/8	4.80	4.32	3.89
TY-52X	200CT(1MA)	2KCT	100	3/8	1 1/2	3/8	4.47	4.02	3.62
TY-54X	15K(1.5MA)	200CT	100	3/8	1 1/2	3/8	4.26	3.83	3.45
TY-55X	2KCT(2MA)	500CT	200	3/8	1 1/2	3/8	4.32	3.89	3.50
TY-56X	10K(1MA)	2KCT	50	3/8	1 1/2	3/8	4.32	3.89	3.50
TY-59X	5KCT(1MA)	50KCT	200	3/8	1 1/2	3/8	4.74	4.27	3.84

## OUTPUT & DRIVER TRANSISTOR TRANSFORMERS

Order by Group Stock No. 26A160 and Triad Type.

Triad Type	Primary Impedance	Secondary Impedance	Output Watts	H.	Size W.	D.	Net Prices, Each		
							1-9	10-24	25-49
TY-29X	24CT(500MA)	8/4	8	2	3/8	1 1/2	\$4.26	\$3.83	\$3.45
TY-30X	100CT(100MA)	8/4	2	1 1/2	2 1/2	1 1/4	3.33	3.00	2.70
TY-31X	200CT(60MA)	8/4	2	1 1/2	2 1/2	1 1/4	3.33	3.00	2.70
TY-48X	100CT(40MA)	16/8/4	0.5	2	3/8	1 1/2	4.08	3.67	3.30
TY-53X	200CT(10MA)	400CT	0.6	2	3/8	1 1/2	3.42	3.08	2.77
TY-61X	100CT(100MA)	100CT	0.5	1 1/2	2 1/2	1 1/4	3.06	2.75	2.48
TY-63X	48CT(650MA)	16/8	5	2	3/8	1 1/2	4.17	3.75	3.38
TY-64X	32CT(575MA)	16/8/4	10	2	3/8	1 1/2	3.81	3.43	3.09
TY-65X	32CT(575MA)	6K/4K/3K	10	2	3/8	1 1/2	3.81	3.43	3.09
TY-66A	6CT(5A)	6K/4K/3K	40	3 1/2	3 1/2	3 1/2	9.42	8.46	7.83
TY-67A	6CT(5A)	16/8/4	40	3 1/2	3 1/2	3 1/2	9.75	8.78	7.90

## MINIATURE AUDIO—"Trijets"

In miniature X style mtg. H, 1 1/2" W, overall, H, deep. Mtg. ctrs. 1".  
Order by Group Stock No. 26A158 and Triad Type.

Triad Type	Description	Imped. Pri.	Imped. Sec.	Response CPS	Max. Level	Dimensions H. W. D.	Net Prices, Each		
							1-9	10-24	25-49
T-1X	Line or Mike to Grid	600/250/50	50K	60-15000	0 DBM	4.32	\$3.89	\$3.50	
T-2X	Line or Mike to Grid	600/250/50	250K	100-5000	0 DBM	4.32	3.89	3.50	
T-12X	Plate to PP Grid	15K	60K C.T.	60-15000	10 DBM	4.32	3.89	3.50	
T-20X	Plate to Line	15K	600/250/50	60-15000	10 DBM	4.05	3.65	3.28	
T-23X	PP Plates to Line	20K C.T.	600/250/50	60-15000	10 DBM	4.01	3.61	3.25	

## TRANSCEIVER AUDIO/MODULATION Transformers

Order by Group Stock No. 26A157 and Triad Type.

\*M4Z is autotformer tapped for Class "C" load.

Triad Type	Description	Imped. Pri.	Imped. Sec.	Ratio	Dimensions H. W. D.	Net Prices, Each		
						1-9	10-24	25-49
A-1X	Sgl. Button Mike	100		Ratio 31.4:1	1 1/2 2 1/2 1 1/4	\$2.04	\$1.84	\$1.65
A-21X	S.B. Mike or Plate To Grid (2 Primaries)	100						
A-23X	Tube to Line and Hi-Imped. Phones	10K	100K		1 1/2 2 1/2 1 1/4	2.31	2.08	1.87
M-1X	Modulation, 5 Watts	10K CT	5K, 8K, 10K		1 1/2 2 1/2 1 1/4	2.81	2.35	2.11
M-3X	Modulation, 20 Watts	10K CT	3K, 5K, 8K		2 1/2 3 1/2 2 1/2	4.95	4.46	4.01
M-4Z	Modulation, Speaker Output	*6750/5000	4		1 1/2 2 1/2 1 1/4	3.09	2.78	2.50

## TRANSISTOR POWER SUPPLY TRAN.

For use with power transistors and silicon rectifiers to produce HV DC from 12 Volt DC. Highly efficient epoxy molded toroid design. Typical circuit included. Others for 6 V. and 28 V. DC input are available from factory stock. Priced quoted on request. Order by Group Stock No. 26A159 and Triad type.

Triad Type	DC Output From Rectifier	Max. Watts	Dimensions H. W. D.	Net Prices, Each		
				1-9	10-24	25-49
TY-78*	250 V. @ 100 MA	25	Dia. 1 1/4", H. 1 1/2"	\$11.25	\$10.69	\$10.13
TY-79*	300 V. @ 200 MA	60	Dia. 1 1/4", H. 1 1/2"	12.21	11.60	10.99
TY-80*	325 V. @ 150 MA	49	Dia. 1 1/4", H. 1 1/2"	12.33	11.71	11.10
TY-81*	375 V. @ 200 MA	75	Dia. 2", H. 1 1/2"	12.51	11.88	11.26
TY-82*	450 V. @ 150 MA	68	Dia. 2", H. 1 1/2"	12.90	12.28	11.61
TY-84*	600 V. @ 200 MA	120	Dia. 2 1/4", H. 1 3/4"	15.80	15.11	14.31

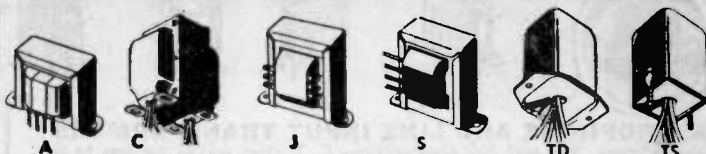


## TRIAD INSTRUMENT POWER SUPPLY TRANSFORMERS

Developed especially for pre-amplifiers, VTVM's, Cathode Ray Tubes, etc. Limited external magnetic fields; multiple static shields. Pri. 115 V., 60 cy.

Stock No.	Triad Type	Plate AC V	Supply DC MA	Fil. Volts and Amps	Dimensions H. W. D.	WL Lbs.	Net Prices, Each		
							1-9	10-24	25-49
13A56	R-29A	230 CT	40	6.3 V. @ 1.5 A	2 1/2 3 1/2 2 1/4	1 1/2	\$5.85	\$5.27	\$4.74
13A58	R-30X	135	50	6.3 V. @ 1.5 A	2 1/2 3 1/2 2 1/4	1 1/2	4.89	4.40	3.96
13A59	R-54X	135	15	6.3 V. @ .8 A	1 1/2 2 1/2 1 1/4	1	3.63	3.27	2.94
13A64	R-73B	135	200	6.3 V. @ 5.5 A	2 3/4 3 3/4 2 1/2	2 1/2	8.67	7.80	7.02

## STANCOR TRANSISTOR TRANSFORMERS



Designed especially for transistor applications. Highest quality throughout. Types TA-15, TA-16 and TA-17 are transformers for a 30 watt transistor mobile modulator using P.P. 2N278's. Ask for No. 25A125. Bulletin 545 Showing modulator circuit.

For Quantity Price in Lots of 25-49 Deduct Approx. 10%. Exact Prices on Request. Order by Group Stock No. 13A801 and Stancor No.

Type No.	Use	Ohms. Pri.	Imp. Sec.	DC MA	Ohms DC Sec.	Power Watts	Mtg. Fig.	Ht.	Base Area	Net Each			
										1-9	10-24		
TA-1	Input	600CT	10	20	42	.8	0.05	A	1 1/2	1 1/2	\$1.89	\$1.74	
TA-2	Inter.	100CT	10 CT	100	4.3	.8	0.25	A	1 1/2	1 1/2	1.89	1.74	
TA-3	Inter.	100	1000 CT	100	5.8	.45	0.25	A	1 1/2	1 1/2	1.89	1.74	
TA-4	Inter.	500 CT	5000 CT	12	37	250	0.03	A	1 1/2	1 1/2	2.48	2.28	
TA-5	Driver	1000	200 CT	10	400	115	0.05	A	3/8	1 1/2	4.70	4.32	
TA-6	Driver	2000	200 CT	5	720	115	0.05	A	3/8	1 1/2	5.32	4.89	
TA-7	Driver	100	100 CT	100	12	12	0.5	A	1 1/2	2 1/2	1.89	1.74	
TA-8	Output	9800	15	2	640	2	0.05	A	1 1/2	2 1/2	4.25	3.90	
TA-9	Output	1000	4/8/16	10	180	3.5	0.2	A	3/4	1 1/2	4.86	4.47	
TA-10	Output	2000CT	4/8/16	.....	250	4	0.2	A	3/4	1 1/2	5.32	4.89	
TA-11	Output	48 CT	8/16	275	5	1.5	5.0	A	2	3 1/4	3 1/4	3.65	3.35
TA-12	Output	20 CT	8/16	500	.55	.35	10.0	A	3	1 1/2	1 1/2	1.89	1.74
TA-13	Driver	200 CT	400 CT	10	5	.....	0.6	TD	3	2 1/2	2 1/2	4.02	3.71
TA-14	Output	24 CT	16/4 CT	200	4	7	10.0	TD	4 1/2	4 1/2	10.06	9.24	
TA-15	Mike	50-100	10	50	2	6	5MW	A	1 1/2	1 1/2	1.47	1.35	
TA-16	Driver	20	36 CT	400	.....	.....	1W	A	1 1/2	2 1/2	1.69	1.56	
TA-17	Mod.	8 CT	7500/5000	.....	.....	.....	35W	C	3 1/2	3 1/2	6.36	5.84	
TA-56	Output	48 CT	3.2/8/16	550	3.6	1.4	10	J	2 1/2	2 1/2	3.04	2.79	
TA-57	Output	100 CT	3.2/8/16	500	6.6	1.6	10	S	2 1/2	2 1/2	2.99	2.75	
TA-58	Driver	100	200 CT	200	6.5	15.5	.5	A	1 1/2	2 1/2	2.13	1.95	
TA-59	Driver	500 CT	200 CT	50	38.5	15.5	.5	A	1 1/2	2 1/2	2.37	2.18	
TA-60	Output	125 CT	8	50	7.5	0.9	1.5	TS	1 1/2	1 1/2	4.11	3.77	

## AUTO RADIO TRANSISTOR TRANSFORMERS

A2 and S2 mtgs. are similar to A and S with tabs instead of punched flanges.

Order by Group Stock No. 13A802 and Stancor No.

Type No.	Use	Ohms. Pri.	Imp. Sec.	DC MA	Ohms DC Sec.	Power Watts	Mtg. Fig.	Ht.	Base Area	Net Each			
										1-9	10-24		
TA-48	Inter.	1000	40	10	136	2.8	2	S2	1 1/2	1 1/2	2.06	1.89	
TA-49	Inter.	30 CT	4	50	2.2	0.3	10	S	2 1/2	1 1/2	2.91	2.67	
TA-50	Output	9 tap @ 4	10	920	1.5	tap @1	10	A2	2	1 1/2	1 1/2	2.73	2.51
TA-51	Inter.	1000	10	10	170	1	2	S2	1 1/2	1 1/2	2.06	1.89	

## AUTO RADIO TRANSISTOR FILTER CHOKE

A2 mtg. with tabs

Stock No.	Type No.	Inductance		Base Area	Net Prices, Each		
		MH @ DCMA	DC Ohms		1-9	10-24	25-49
13A704	TC-1	3 @ 1000	25	1 1/4 x 3/8	\$1.32	\$1.22	\$1.08
13A705	TC-2	11 @ 1000	75	1 1/4 x 3/8	1.21	1.11	1.00

## TRANSISTOR POWER TRANSFORMER (Pri. 117 V. 60 Cy. AC)

For bridge rectifier. Two windings, each 13 or 18 V. AC., 900 MA. Upright type C mount. Size 3x2 1/2x3" H. Wt. 3 lbs.

No. 13A793. Type TP-1.

1-9, Ea. .... \$4.86 10-24, Ea. .... \$4.47 25-49, Ea. .... \$4.02

## STANCOR MINIATURE TRANSISTOR TRANSFORMERS

CHOICE EACH \$3.65

Open frame style with caded wire leads. Size, 150 milliwatt units 3/8" between mtg. tabs, 1/8" high, 1/8" wide, 5/8" deep, wt. .65 oz. 300 milliwatt units 1 1/8" between holes, 1/8" high, 1 1/8" wide, 3/4" deep, wt. 1.2 oz. \*Indicates 300 MW units. All others rated 150 MW.

No. 26B101. Order by Stock No. and Stancor No. 1-9, Ea. .... \$3.65 10-24, Ea. .... \$3.35 25-49, Ea. .... \$3.01

Stancor No.	Applica-tion	Turns Ratio	Imped. Pri.	Ohms Sec.	Stancor Appli-cation
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# Stancor Transformers



## MICROPHONE AND LINE INPUT TRANSFORMERS

\*Dual primary, 500 and 200 ohm sections C. T. Use A4350 for line to line, others mike to grid. VE and TD mountings are fully shielded for low hum pickup. A4779 is for Sgl. or PP. grids, A4780 for PP. only. All others for single grid. Wt. 1 lb.

Stock No.	Mfr's No.	Pri. Ohms	Sec. Ohms	Mtg.	Size H.W.D.	Net Each			
						1-9	10-24	25-49	50-99
13A570	A4778	600/600CT	240,000	CI	2 1/2 x 2 1/2 x 1 1/2	3.89	3.58	3.22	2.98
13A571	A4779	600/500 CT	60,000 CT	A	1 1/2 x 2 1/2 x 1 1/2	2.25	2.07	1.87	1.73
13A572	A4780	600/500 CT	240,000 CT	VE	2 x 3 1/2 x 1 1/2	3.96	3.62	3.26	3.02
13A5	*A4350	500/333/200/125/50	Like Pri.	Q	2 x 3 1/2 x 1 1/2	4.24	3.90	3.51	3.25
13A4	*A4351	500/333/200/125/50	89,000	TD	2 1/2 x 2 1/2 x 2 1/2	4.54	4.17	3.75	3.47
13B11	*A4352	500/333/200/125/50	89,000	Q	2 x 3 1/2 x 1 1/2	4.70	4.32	3.89	3.60
13A713	A4709	30/15/8/4	106,000	TD	2 1/2 x 2 1/2 x 2 1/2	5.09	4.68	4.21	3.90
13A379	A4705	200/70	80,000	A	1 1/2 x 2 1/2 x 1 1/2	2.91	2.67	2.40	2.22
13B107	A4706	100	60,000	A	1 1/2 x 2 1/2 x 1 1/2	2.13	1.95	1.76	1.63
13A712	A4747	70	1,300,000	VE	1 1/2 x 1 1/2 x 1 1/2	3.09	2.84	2.55	2.36

## INTERCOM, TRANSCIVER, PHONE PATCH TRANS.

\*Used in popular Citizens Band Transceiver. Ask for 25A151 parts list. A8090 and A8091 are intercom outputs. Average wt. 1 lb.

Stock No.	Mfr's No.	Description	Mtg.	Size H.W.D.	Net Each			
					1-9	10-24	25-49	50-99
13A1	A4744	VC to Grid, 4 to 25K Ohms	VE	1 1/2 x 2 1/2 x 1 1/2	1.98	1.82	1.63	1.51
13A410	A4748	VC to Grid, 45 to 50K Ohms	A	1 1/2 x 2 1/2 x 1 1/2	2.94	2.70	2.43	2.25
13A714	A8090	3W Line to VC, 45 Ohm Pri.	Q	1 1/2 x 2 1/2 x 1 1/2	1.73	1.59	1.43	1.33
13A471	A8091	8W to 3-4 or 6-8 Ohms	Q	1 1/2 x 2 1/2 x 1 1/2	2.06	1.89	1.70	1.57
13B110	A3833	Transceiver 200/5K to 60K, 5W	A	1 1/2 x 2 1/2 x 1 1/2	2.81	2.58	2.32	2.15
13A459	*A3817	Transceiver 5K to 6750-4, 10W	A	1 1/2 x 1 1/2 x 2 1/2	2.94	2.70	2.43	2.25
13A247	A4749	Phone Patch (2 Required)	TD	1 1/2 x 1 1/2 x 2 1/2	4.75	4.37	3.93	3.64

## INTERSTAGE TRANSFORMERS (Avg. Shpg. Wt. 1 Lb.)

A-53, single 7K-20K ohm plate to single grid. A4711 PP 7K-15K plates to PP grids, others single 7K-15K ohm plate to PP grids. Max. DC in primary 10 MA. Core size 1/2" x 1/2" except A63C, A64C and A4711, 3/8" x 3/8".

Stock No.	Mfr's No.	Turns Ratio	Mtg.	Size H.W.D.	Net Each			
					1-9	10-24	25-49	50-99
13A359	A53	1:3	A	1 1/2 x 2 1/2 x 1 1/2	1.98	1.82	1.63	1.51
13A208	A52C	1:2	A	1 1/2 x 2 1/2 x 1 1/2	2.20	2.03	1.82	1.69
13A6	A53C	1:3	A	1 1/2 x 2 1/2 x 1 1/2	2.35	2.16	1.94	1.80
13A7	A63C	1:3	A	1 1/2 x 2 1/2 x 1 1/2	2.65	2.43	2.19	2.03
13A10	A4711	1:1	A	1 1/2 x 2 1/2 x 1 1/2	3.09	2.84	2.55	2.36

## DRIVER TRANSFORMERS (Avg. Shpg. Wt. 3 Lbs.)

Turns ratio is pri. to 1/2 sec. DCMA is for pri. Pri. impeded, 10K ohms except A4702, 1.5K-5K ohms. All mtg. style A except A4702 is style C.

Stock No.	Mfr's No.	Turns Ratio	DC MA	Size H.W.D.	Net Each			
					1-9	10-24	25-49	50-99
13A15	A4713	2:1	30	1 1/2 x 2 1/2 x 1 1/2	2.08	1.91	1.71	1.59
13A14	A4752	2:1.5/1:1	40	2 x 3 1/2 x 1 1/2	2.87	2.64	2.38	2.20
13B111	A4723	3:1	30	1 1/2 x 2 1/2 x 1 1/2	2.11	1.94	1.74	1.61
13B115	A4702	5:1	80	3 1/2 x 2 1/2 x 2 1/2	4.80	4.41	3.97	3.67

## PLATE MODULATION TRANSFORMERS

Stock No.	Stancor No.	Suggested Mod. Tubes	Class "C" Load Ohms.	Audio Watts	Mtg. Fig.	Dimensions H. W. D.	Your Cost
13A613	A-3812	Sgl. 6K6, 19	4000	5	A	1 1/2 x 2 1/2 x 1 1/2	2.38
13B121	A-3845	PP 6N7, 6V6	8M/6.5M/5M/3M	25	C	3 1/2 x 2 1/2 x 2 1/2	5.72

## UNIVERSAL POLY-PEDANCE MODULATION TRANSFORMERS

Matches 2,000 to 20,000 ohm class "B" amplifier to class "C" load of some.

Stock No.	Stancor No.	Audio Watts	Max. D. C. ma	Mtg. Fig.	Dimensions H. W. D.	Your Cost
13B156	A-3894	125	225	D	4 1/4 x 4 x 4 1/2	16.25

## MODULATION SPLATTER CHOKE

Tapped .048 to 0.9 henries. Max DC, 300 MA. B mounting. Size, 3 x 3" base, 2 5/8" high, Shpg. wt. 3 lbs. No. 13A596. Type C-2317. NET EACH \$5.45

## CONSTANT VOLTAGE LINE TO VOICE COIL TRANS.

For matching speakers requiring different power levels to constant voltage output from amplifier. To determine transformer primary impedance at any given power step use formula Z=K/P where Z=transformer impedance, P=desired power at speaker K=constant 625 for 25 V. line, 5000 for 70.7 V. and 20,000 for 140 V. A8099, A8105 and A8109 have 4/8 ohm sec. all others 4/8/16 ohm sec.

### 25 VOLT LINE TO VOICE COIL

Stock No.	Mfr's No.	Power Steps in Watts	Mtg. Type	Size H. W. D.	Net Each			
					1-9	10-24	25-49	50-99
13A573	A8099	2/1/0.5	Q	1 1/2 x 2 1/2 x 1 1/2	2.45	2.25	2.03	1.89
13B327	A8096	8/4/2/1.5	J	2 x 1 1/2 x 2 1/2	3.53	3.24	2.92	2.70
13B328	A8097	16/8/4	J	2 1/2 x 2 1/2 x 3 1/2	4.23	3.88	3.50	3.24

### 70.7 VOLT LINE TO VOICE COIL

Stock No.	Mfr's No.	Power Steps in Watts	Mtg. Type	Size H. W. D.	Net Each			
					1-9	10-24	25-49	50-99
13A415	A8103	16/8/4/2	J	2 1/2 x 2 1/2 x 3 1/2	4.85	4.45	4.01	3.71
13A414	A8102	8/4/2/1.5	J	2 x 1 1/2 x 2 1/2	3.43	3.15	2.84	2.63
13A252	A8105	5/2.5/1.25/ .62/ .31	Q	1 1/2 x 2 1/2 x 1 1/2	2.78	2.55	2.30	2.13
13A574	A8109	2/1/0.5	Q	1 1/2 x 2 1/2 x 1 1/2	2.45	2.25	2.03	1.89
13A575	A8080	5/4/3/2/1	Q	1 1/2 x 2 1/2 x 1 1/2	2.85	2.62	2.36	2.18

## UNIVERSAL OUTPUT TRANSFORMERS

Any plate to any voice coil except A3824 and A3825 which have 1, 2, 4 ohm sec. All Q mtg. except A3850, A3852 and A3880 are type J.

Stock No.	Mfr's No.	Primary	Sec.	Watts	Size H.W.D.	Net Each			
						1-9	10-24	25-49	50-99
13A19	A3856	4K to 14K	4	3	1 1/2 x 2 1/2 x 1 1/2	2.84	2.61	2.35	2.18
13A20	A3823	4K to 14K	8	5	1 1/2 x 2 1/2 x 1 1/2	3.30	3.03	2.73	2.53
13A614	A3825	1.5K to 4.5K	8	2	2 x 3 1/2 x 1 1/2	2.58	2.37	2.13	1.98
13A615	A3824	6K to 10K	8	2	2 x 3 1/2 x 1 1/2	3.23	2.97	2.67	2.48
13A27	A3849	1.5K to 10K	10	1	1 1/2 x 2 1/2 x 1 1/2	3.30	3.03	2.73	2.53
13A616	A3880	PP 4K to 14K	15	2	2 1/2 x 3 1/2 x 2 1/2	4.30	3.95	3.55	3.29
13A22	A3852	PP 4K to 14K	18	2	2 1/2 x 3 1/2 x 2 1/2	3.99	3.66	3.29	3.05
13A26	A3830	PP 3K to 10K	20	2	2 1/2 x 3 1/2 x 2 1/2	4.41	4.05	3.65	3.38

## OUTPUT TRANSFORMERS

### SINGLE PLATE TO VOICE COIL

\*Indicates sec. 500/15/8/4 ohms A3336 has 3% and 6% primary taps used in hum reduction. A3337 S mtg., A3310 C mtg., others A mtg. Avg. wt. 3 W, 1/2 lb. others 1 to 5 lbs.

Stock No.	Mfr's No.	Impedance		Watts	Size H.W.D.	Net Each			
		Pri.	Sec.			1-9	10-24	25-49	50-99
13A378	A3332	2000	3.2	3	1 1/2 x 2 1/2 x 1 1/2	1.36	1.25	1.12	1.04
13B126	A3376	2000	4	5	1 1/2 x 2 1/2 x 1 1/2	1.45	1.34	1.20	1.11
13A412	A3836	2500	3.5	5	1 1/2 x 2 1/2 x 1 1/2	1.95	1.79	1.61	1.49
13B322	A3328	4000	3.5	3	1 1/2 x 2 1/2 x 1 1/2	1.34	1.23	1.11	1.03
13B127	A3877	5000	4	5	1 1/2 x 2 1/2 x 1 1/2	1.45	1.34	1.20	1.11
13B89	A3337	5000	6-8	10	2 1/2 x 2 1/2 x 2 1/2	2.28	2.10	1.88	1.75
13B323	A8092	5000	3-4	8	1 1/2 x 2 1/2 x 1 1/2	2.06	1.89	1.70	1.57
13A364	A3310	5000	*	20	3 1/2 x 2 1/2 x 2 1/2	5.59	5.13	4.62	4.28
13A34	A3878	7000	4	5	1 1/2 x 2 1/2 x 1 1/2	1.49	1.37	1.23	1.14
13A533	A8114	7600	3.2	5	1 1/2 x 2 1/2 x 1 1/2	1.73	1.59	1.43	1.33
13A375	A3329	8000	3.5	3	1 1/2 x 2 1/2 x 1 1/2	1.34	1.23	1.11	1.03
13B128	A3879	10000	4	5	1 1/2 x 2 1/2 x 1 1/2	1.45	1.34	1.20	1.11
13A368	A3327	25000	4	5	1 1/2 x 2 1/2 x 1 1/2	1.80	1.65	1.49	1.38

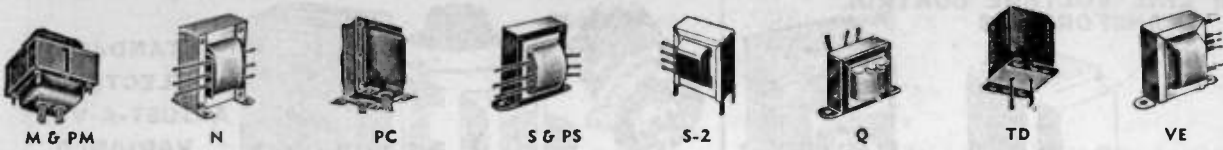
## OUTPUT TRANSFORMERS PP PLATES TO V.C.

\*Indicates 500/250/15/8/4 ohms except A3304 and A3311 do not have 250 ohms. A8098, A3800, A3801, A3304 and A3311 style C mtg. Others similar to A. Wt. .4 to 4.8 lbs.

Stock No.	Mfr's No.	Impedance		Watts	Size H.W.D.	Net Each			
		Pri.	Sec.			1-9	10-24	25-49	50-99
13A578	A8098	2000CT	8/16/32	15	3 1/2 x 2 1/2 x 3 1/2	7.98	7.33	6.60	6.11
13B324	A8094	4000CT	8/16/32	7 1/2	2 1/2 x 2 1/2 x 3 1/2	3.99	3.66	3.29	3.05
13A36	A3800	5000CT	*	30	3 1/2 x 3 1/2 x 3 1/2	6.73	6.18	5.56	5.15
13B132	A3801	6000CT	*	35	4 x 3 1/2 x 3 1/2	8.58	7.88	7.09	6.56
13A9	A4430	9000CT	3.2	5	1 1/2 x 2 1/2 x 1 1/2	2.23	2.06	1.85	1.71
13A12	A4432	10000CT	4	10	2 1/2 x 2 1/2 x 1 1/2	2.41	2.22	2.00	1.85
13A38	A3304	10K-7KCT	*	25	3 1/2 x 2 1/2 x 3 1/2	6.30	5.79	5.21	4.83
13B2	A3311	10000CT	*	25	3 1/2 x 3 1/2 x 3 1/2	6.77	6.21	5.59	5.18
13A500	A3831	10000CT	8/4/2	5	1 1/2 x 2 1/2 x 1 1/2	2.65	2.43	2.19	2.03
13B325	A8093	10000CT	3-4	10	1 1/2 x 2 1/2 x 1 1/2	2.12	1.95	1.75	1.62
13A411	A3335	10000CT	8-4	10	2 1/2 x 2 1/2 x 1 1/2	3.09	2.84	2.55	2.36
13A534	A2312	14000CT	4						



# Stancor Transformers



## POWER TRANSFORMERS

Top quality—well within industry standards. All primaries for 117 V. 60 cy. AC. Type PM, full shielded horizontal mtg. P and PC, enclosed upright mtg.

### TO PROVIDE APPROX. 260 V. DC TO CONDENSER INPUT FILTER

Stock No.	Mfr's. No.	H. V. Sec. V. CT. MA	5 V @	6.3 V CT @	Size H.W.D.	Wt. Lbs.	Net Each			
							1-9	10-24	25-49	50-99
13B90	PM8401	470 40	2A	2A	2 1/2 x 2 1/2 x 3 1/2	2.2	5.65	5.22	4.70	4.35
13A380	PC 8401	470 40	2A	2A	3 1/2 x 2 1/2 x 2 1/2	2.2	5.42	4.97	4.47	4.14
13B50	PM8402	480 55	2A	2A	2 1/2 x 2 1/2 x 3	2.4	5.53	5.07	4.56	4.23
13A381	PC 8402	480 55	2A	2A	3 1/2 x 2 1/2 x 2 1/2	2.4	5.38	4.94	4.44	4.11
13B53	PM8403	500 70	2A	2.5A	3 1/2 x 2 1/2 x 3	3.2	6.23	5.73	5.16	4.78
13A382	PC 8403	500 70	2A	2.5A	3 1/2 x 2 1/2 x 3 1/2	3.2	6.23	5.73	5.16	4.78
13B96	PM8404	520 90	2A	3A	3 1/2 x 2 1/2 x 3 1/2	4	8.91	6.35	5.71	5.29
13A383	PC 8404	520 90	2A	3A	3 1/2 x 2 1/2 x 3 1/2	4	8.91	6.35	5.71	5.29
13B83	PM8405	540 120	3A	3.5A	3 1/2 x 3 1/2 x 3 1/2	4.9	9.00	8.28	7.45	6.90
13A384	PC 8405	540 120	3A	3.5A	4 x 3 1/2 x 3 1/2	4.9	9.00	8.28	7.45	6.90

### FOR USE WITH CHOKO INPUT FILTER, VR-TUBE REGULATED SUPPLY, OR HIGHER VOLTAGE WITH CONDENSER INPUT FILTER

\*PC8414 has dual 6.3 V. 3 A. windings, no C.T.

Stock No.	Mfr's. No.	H. V. Sec. V. CT. MA	5 V @	6.3 V CT @	Size H.W.D.	Wt. Lbs.	Net Each			
							1-9	10-24	25-49	50-99
13A651	PM8423	600 90	2A	3.5A	3 x 2 1/2 x 3 1/2	4	7.97	7.32	6.59	6.10
13B92	PM8406	650 40	2A	2A	2 1/2 x 2 1/2 x 3	2.4	5.64	5.19	4.67	4.33
13B93	PM8407	650 55	2A	2A	3 1/2 x 2 1/2 x 3	3.2	5.88	5.40	4.86	4.50
13A386	PC 8407	650 55	2A	2A	3 1/2 x 2 1/2 x 3 1/2	3.2	5.88	5.40	4.86	4.50
13B13	PC 8422	650 150	3A	6A	4 x 3 1/2 x 3 1/2	5.8	9.40	8.63	7.76	7.19
13B95	PM8408	680 70	2A	2.5A	3 1/2 x 2 1/2 x 3 1/2	3.8	7.35	6.75	6.08	5.63
13B97	PM8409	700 90	2A	3A	3 1/2 x 2 1/2 x 3 1/2	4.5	7.76	7.13	6.41	5.94
13A388	PC 8409	700 90	2A	3A	3 1/2 x 2 1/2 x 3 1/2	4.5	7.76	7.13	6.41	5.94
13B98	PM8410	720 120	3A	3.5A	3 1/2 x 3 1/2 x 3 1/2	5.5	9.17	8.42	7.57	7.01
13A389	PC 8410	720 120	3A	3.5A	4 x 3 1/2 x 3 1/2	5.5	8.81	8.09	7.27	6.74
13B100	PM8411	750 150	3A	4.5A	3 1/2 x 3 1/2 x 3 1/2	5.8	12.30	11.28	10.15	9.40
13A390	PC 8411	750 150	3A	4.5A	4 1/2 x 3 1/2 x 4	5.8	11.79	10.83	9.74	9.03
13A391	PC 8412	800 200	3A	5A	4 1/2 x 4 x 4	8.2	12.30	11.28	10.15	9.40
13A392	PC 8413	800 250	4A	6A	4 1/2 x 4 x 4 1/2	10	14.06	12.90	11.61	10.75
13A393	PC 8414	1200 200	3A*	3A	4 1/2 x 4 x 4 1/2	8.3	14.46	13.28	11.95	11.06

### FOR USE WITH 6X5, 6AX5, 6X4 OR SELENIUM RECTIFIER

\*PS8415 and PA8421 do not have CT on high voltage winding. PC8417 has additional winding, 25.2 V @ .5 A. P6358 is type C mtg.

Stock No.	Mfr's. No.	H. V. Sec. V. CT. MA	5 V @	6.3 V CT @	Size H.W.D.	Wt. Lbs.	Net Each			
							1-9	10-24	25-49	50-99
13B30	PS8415	125 15	.6A	2	2 x 2 1/2 x 1 1/2	.7	2.32	2.13	1.92	1.78
13B32	PA8421	125 50	2A	2	2 1/2 x 3 1/2 x 2 1/2	1.5	3.76	3.45	3.11	2.88
13A634	PC8417	440 50	.6A	3	3 1/2 x 2 1/2 x 2 1/2	2.2	6.28	5.76	5.18	4.80
13B84	PS8416	250 25	1A	2	2 1/2 x 2 1/2 x 1 1/2	1	2.79	2.57	2.31	2.14
13C40	PM8418	460 50	2.5A	2	2 1/2 x 2 1/2 x 3	2.2	4.70	4.32	3.89	3.60
13A394	PC8418	460 50	2.5A	3	3 1/2 x 2 1/2 x 2 1/2	2.2	4.70	4.32	3.89	3.60
13B88	PM8419	480 70	3A	3	2 1/2 x 2 1/2 x 3	2.6	5.41	4.97	4.47	4.14
13A395	PC 8419	480 70	3A	3	3 1/2 x 2 1/2 x 2 1/2	2.6	5.41	4.97	4.47	4.14
13A618	PC 8420	520 90	4A	4	3 1/2 x 3 x 3 1/2	3.5	6.29	5.78	5.20	4.81
13A650	P6358	600 65	2.7A	3	3 1/2 x 2 1/2 x 2 1/2	3	5.84	5.36	4.83	4.47

### CATHODE RAY TUBE POWER TRANSFORMERS

For use with type 2X2 rectifier tube in half-wave high voltage supply. The P8150, TD Mtg.; P-8151 and P8178, C Mtg. P8178 has additional Fil. 6.3 V @ 0.6 A.

Stock No.	Mfr's. No.	H.V. Sec. V. CT. MA	2.5 V @	2.5 V @	Size H.W.D.	Wt. Lbs.	Net Each			
							1-9	10-24	25-49	50-99
13B246	P8150	1550 1.5	1.75A	2	3 1/2 x 3 1/2 x 2 1/2	1.8	8.82	8.10	7.29	6.75
13A628	P8178	1800 2.0	1.8	2.2	3 1/2 x 3 1/2 x 3 1/2	5	9.03	8.29	7.47	6.91
13B262	P8151	2400 5.0	2A	2A	4 1/2 x 3 1/2 x 3 1/2	6.4	11.62	10.67	9.60	8.89

### 6-VOLT VIBRATOR POWER TRANSFORMERS

Stock No.	Stancor No.	Secondary DC Volts	M. A.	Type Mtg.	Dimensions			Your Cost
					H.	W.	D.	
13A619	P8301	150	40	B	2 1/2	2 1/2	1 1/2	\$3.67
13A620	P4062	260	65	N	3 1/2	2 1/2	2 1/2	5.34
13A621	P6131	330	100	N	3 1/2	2 1/2	2 1/2	7.20

### EXACT DUPLICATE AUTO RADIO VIBRATOR TRANSFORMERS.

Exact duplicate of mounting type used in original equipment. Av. wt. 3 lbs. WITH 6V DC PRIMARY

Stk. No.	Type	Orig. Part No.	Make of Radio	Net Each
13B 80	P6471	25B472533	Motorola 408-508, etc.	\$5.29
13A625	P6478	25C501644	Motorola	3.46
13A797	P6481	32-8313-1	Philco	4.41
13A177	P6488	25C521454	Motorola	4.38
13A724	P6490	C291787-1	Bendix (Ford 5B8F)	3.26
WITH 12 VOLT DC PRIMARY				
13A726	P6480	6067	United Motors (Delco)	\$4.07
13A727	P6493	25C535794	Motorola	4.05
13A728	P6494	32-8592-1	Philco	3.65
13A729	P6495	25K535795	Motorola	4.19
13A179	P6497	7265604	United Motors (Delco)	3.59

## SMOOTHING FILTER CHOKES

C2303 insulated for 2000 V. RMS; C2705 for 2500 V., C1001, C1421, C1411, C1721, C1412 for 3000 V.; C1646 and C1413, 5000 V.; all others 1500 V. insulation. For high current filter chokes see Page 40.

Stock No.	Mfr's. No.	Hys.	MA	Ohms	Fig.	Size H.W.D.	Wt.	Net Each			
								1-9	10-24	25-49	50-99
13A51	C1515	20	15	900	A	1 1/2 x 2 1/2 x 1 1/2	.7	2.10	1.93	1.74	1.61
13A41	C1706	4.5	50	300	A	1 1/2 x 2 1/2 x 1 1/2	.4	1.25	1.16	1.04	.96
13A42	C1707	7	50	550	A	1 1/2 x 2 1/2 x 1 1/2	.4	1.39	1.28	1.15	1.06
13A43	C1003	16	50	580	A	2 x 3 1/2 x 1 1/2	1.1	2.13	1.95	1.75	1.62
13A44	C1708	13	65	500	A	2 x 3 1/2 x 1 1/2	1	2.35	2.16	1.94	1.80
13A525	C1355	8	75	290	L	2 1/2 x 2 1/2 x 1 1/2	1	2.60	2.38	2.15	1.99
13A45	C1002	15	75	400	A	2 1/2 x 2 1/2 x 2 1/2	1.7	2.82	2.59	2.34	2.16
13A46	C1709	8	85	250	A	2 x 3 1/2 x 2	1.4	2.35	2.16	1.94	1.80
13A48	C1001	10.5	110	225	A	2 1/2 x 4 x 2 1/2	2.3	3.52	3.22	2.90	2.69
13A52	C2303	2.5	130	100	A	2 x 3 1/2 x 1 1/2	1	2.20	2.03	1.82	1.69
13A49	C1421	7	140	165	C	3 1/2 x 2 1/2 x 2 1/2	2.5	4.55	4.17	3.75	3.47
13A638	C2304	2.3	150	60	A	2 x 3 1/2 x 1 1/2	1	2.20	2.03	1.82	1.69
13A47	C1710	7	150	200	A	2 1/2 x 4 x 2 1/2	2.2	3.63	3.24	2.92	2.70
13A635	C2327	1.5	200	85	A	1 1/2 x 3 1/2 x 1 1/2	.8	1.76	1.62	1.46	1.35
13C201	C2325	2	200	60	A	2 1/2 x 3 1/2 x 2 1/2	1.8	2.79	2.57	2.31	2.14
13A54	C1411	4.5	200	80	C	3 1/2 x 3 x 3 1/2	3.5	5.56	5.10	4.59	4.25
13A56	C1721	8.5	200	120	NV	3 1/2 x 3 x 3 1/2	4.4	7.35	6.70	6.08	5.63
13A278	C2705	10	200	150	C	3 1/2 x 3 x 3 1/2	4.5	7.09	6.51	5.86	5.42
13A55	C1412	4	250	60	C	3 1/2 x 3 x 3 1/2	4.3	6.82	6.27	5.64	5.22
13C203	C2326	1	300	43	A	2 1/2 x 3 x 2 1/2	1.7	2.84	2.61	2.35	2.18
13B134	C1413	8	300	80	D	4 1/2 x 4 x 4 1/2	7.8	11.25	10.32	9.29	8.60
13A279	C2706	2.6	310	50	C	3 1/2 x 2 1/2 x 3 1/2	4	5.94	5.45	4.91	4.55
13A636	C2328	.8	375	25	A	2 1/2 x 3 1/2 x 2	1.5	3.53	3.24	2.92	2.70

## AC-DC FILTER CHOKES

All types insulated for 1500 V. RMS.

Stock No.	Mfr's. No.	Hys.	Max. MA	Ohms	Fig.	Size H.W.D.	Wt.	Net Each			
								1-9	10-24	25-49	50-99
13B91	C1723	4.5	50	325	A	1 1/2 x 2 1/2 x 1 1/2	.4	1.39	1.28	1.15	1.06
13A61	C1729	8.5	50	400	A	1 1/2 x 2 1/2 x 1 1/2	.7	1.62	1.48	1.34	1.24
13A62	C1215	9	50	500	A	1 1/2 x 2 1/2 x 1 1/2	.7	1.57	1.44	1.30	1.20

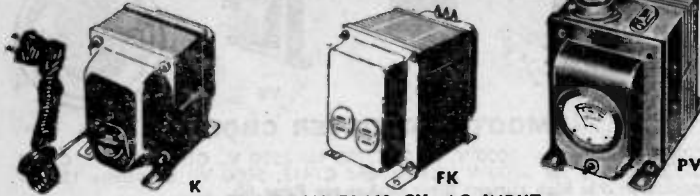
## FILAMENT TRANSFORMERS

Primaries for 117 V. 60 cy. AC. P6454, P6468, P4019, P4089, P6308, P6309 have top for 117/107 V. All have electrostatic shield between windings except P3060, P6467, P6135, P6134, P6432, P6433, P6464, P8190, P6466, P8130 and P6469. Sec. is center tapped except P8190 and P6469.



# Voltage Control Transformers

## STANCOR LINE VOLTAGE CONTROL TRANSFORMERS



### LINE ISOLATION 50/60 CY. AC INPUT

Eliminates most shock hazard because of possible grounded circuits within the equipment. A necessity when testing AC-DC sets. Built-in electrostatic shields are grounded to core.

P6410 is K style with line cord and plug on input; receptacle on output. P6160 in K mtg. with line cord, tap switch and receptacle. P6415 designed for test service work has line cord and three output receptacles.

Stock No.	Mfr's. No.	Watts Max.	Input Volts	Output Volts	H.	Size W. D.	WL Lbs.	1-9	10-24	25-49
13A443	P6410	50	115	115	3 3/8	2 3/8 x 3 3/8	3.7	\$ 7.77	\$ 7.14	\$ 6.48
13A444	P6160	100	125/115/105	115	4 3/8	4 x 3 3/8	7	14.19	13.03	11.73
37A196	P6415	350	117	105/115/125	5 3/8	4 3/8 x 5 3/8	17	23.05	21.15	19.04

## 220 TO 110 V. STEP-DOWN AUTO-TRANSFORMERS

For operation of 110 V. A.C. devices in areas where 220 V., 50 or 60 CY. A.C. is the standard supply voltage. All types have 110 V., A.C. plug-in receptacle mounted on side of transformer. Windings are not isolated. P6287 is K style except output receptacle is on top. P6124 is FK style. All others are K style as illustrated; cord and output receptacle on side.

Stock No.	Mfr's. No.	Watts Max.	H.	Size W. D.	WL Lbs.	1-9	10-24	25-49
13A317	P6287	40	3 3/8	2 3/8 x 2 3/8	2.2	\$ 6.38	\$ 5.84	\$ 5.25
13A318	P5063	100	4	3 3/8 x 3 3/8	4.5	8.25	7.58	6.82
13A82	P5064	150	4 3/8	3 3/8 x 3 3/8	5.2	9.72	8.93	8.03
13B151	P5065	300	4 3/8	4 x 4 3/8	8.8	13.50	12.39	11.15
13A296	P6141	500	4 3/8	4 x 5 3/8	13.7	17.76	16.31	14.67
37A36	P6124	1000	7 3/8	5 3/8 x 6 3/8	24.5	37.63	31.56	30.30

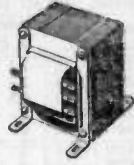
## STANCOR LINE ADJUSTING TRANSFORMERS

Meter on side of transformer accurately indicates output voltage. Tapped autotransformer type winding permits full 115 volts output with 50-60 cy. AC input voltages of 65/75/90/100/115/130 or 145. Also useful for altering a 115 V. line above or below that level. With cord, plug, tap switch, receptacle.

Stock No.	Mfr's. No.	Volt-Amps	H.	Size W. D.	WL Lbs.	1-9	10-24	25-49
13A418	PV6441	150	5 3/8	3 3/8 x 5 3/8	6.4	\$19.40	\$17.82	\$16.04
13A419	PV6442	350	5 3/8	3 3/8 x 6 3/8	10.5	22.34	20.52	18.47
13A420	PV6443	500	5 3/8	3 3/8 x 6 3/8	15	24.70	22.68	20.41

## TAPPED SELENIUM RECTIFIER TRANSFORMERS

Variable tap isolated primary and secondary windings provide output voltages in 12 steps within ranges shown. In many cases will fill the need for custom made special voltage transformers of great savings in cost and time. DC output voltages are based on conventional circuits employing dry disc selenium rectifiers and high capacity filters. RT-201, 2 1/2 x 3 3/8 x 3 1/8" H. Wt. 2.5 lbs.; RT-202, 2 3/8 x 3 1/2 x 3 3/8" H. Wt. 3.8 lbs.; RT-204, 4 1/8 x 3 1/4 x 4" H. Wt. 6.1 lbs.; RT-206, 5 1/8 x 3 1/4 x 4 1/4" H. Wt. 9.1 lbs.; RT-208, 5 1/4 x 3 3/8 x 4 3/8" H. Wt. 12.6 lbs.; RT-2012, 4 3/8 x 6 3/8 x 5 3/8" H. Wt. 20.5 lbs.; RT-408, 4 3/8 x 7 1/2 x 5 3/8" H. Wt. 26.5 lbs.; RT-4012, 5 3/8 x 6 1/4 x 7 1/8" H. Wt. 33.5 lbs. Res=resistive, Cap=capacitive loads.



Stock No.	Stancor No.	Rect. Ckt.	AC Volts Range	DC Amps.	DC V. Out. Res. Load	DC V. Out. Cap. Load	1-9	10-24
13A734	RT-201	CT Bridge	11.7-29.4	2	3.3 to 11.2	3.5 to 13.8		
			11.1-28.5	1.25	7.4 to 23	8.7 to 30	\$ 4.97	\$ 4.58
13A735	RT-202	CT Bridge	12.2-29.7	4	3.7 to 11.1	4 to 14.7		
			12.2-29.7		8.9 to 24.3	10.8 to 33	6.75	6.20
13A736	RT-204	CT Bridge	11.7-29.2	8	4.3 to 12	4.5 to 14.5		
			11.8-29.2	4	8.8 to 24	11.4 to 32.4	6.73	6.01
13A737	RT-206	CT Bridge	12.9-29.8	12	8.4 to 11.5	3.9 to 14.4		
			12-29.6	6	8.4 to 24	10 to 32	11.87	10.69
13A738	RT-208	CT Bridge	12.2-29.2	15	3.9 to 11.4	4.4 to 14.8		
			12.1-29.2	8	8.7 to 23.7	10.4 to 32.5	14.95	13.73
37A28	RT-2012	CT Bridge	12.2-29.1	22.5	3.9 to 11.4	4.0 to 14.3		
			12.2-29.0	12	8.6 to 23.5	10.8 to 33	22.06	20.24
37A29	RT-408	Bridge	25.0-53.5	8	18.0 to 44.0	25.0 to 63.0	32.61	29.93
37A30	RT-4012	Bridge	25.0-53.0	12	18.0 to 43.5	24.0 to 60.0	42.94	39.41

## RECTIFIER POWER TRANSFORMERS—117 V. PRI. NO TAPS

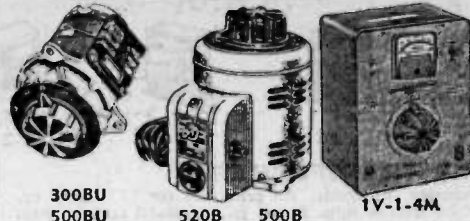
P8193 has single 6A secondary. Size 3 1/8 x 3 3/8 x 3 3/4" H. Wt. 6 lbs. P8194 has dual 3A secondaries. Size 3 3/4 x 4 x 4 1/2" H. Wt. 10 lbs. Same style mtg. as RT series above.

Stock No.	Mfr's. No.	H.W. Bridge	18	2.5-2.8	7 V. @ 2.5A	9 V. @ 2.8A	14 V. @ 5A	17 V. @ 4A	8.44	7.75
13A653	P8193	18	4-5							
13A654	P8194	11. W. Bridge	36	2-2.5	14 V. @ 2.5A	34 V. @ 2A				
		18 W. Bridge	36	3.5-5.2	28 V. @ 5.2A	38 V. @ 3.5A			14.35	13.18

## HIGH CURRENT FILTER CHOKES

For use with selenium rectifiers in DC power supplies. Mtg. similar to RT series transformers above with leads instead of lugs. RMS voltage rating 1500 V. C2690 and C2691 have dual windings; first rating is series, second, parallel.

Stock No.	Mfr's. No.	Ind. Hys.	DC Amps.	Ohms Res.	Size H.W.D.	WL Lbs.	Net Price		
							1-9	10-24	25-49
13A276	C2690	0.3 & 0.75	1 & 2	3 & .75	3 1/8 x 2 3/8 x 3 3/8	5	\$ 7.86	\$ 7.21	\$ 6.50
13A277	C2691	80 MH & 20 MH	2.5 & 5	0.0 & 0.15		7	10.01	9.19	8.28
13A550	C2685	.035	2	.75	2 3/8 x 2 3/8 x 2 3/8	1.9	\$ 3.48	\$ 3.20	\$ 2.83
13A551	C2686	.025	4	.425	3 3/8 x 2 3/8 x 3	3.4	5.93	5.45	4.90
13A552	C2687	.01	8	.15	3 3/4 x 3 3/8 x 3 3/8	5.3	7.80	7.17	6.46
13A553	C2688	.01	12.5	.11	4 1/8 x 3 3/8 x 3 3/8	5.9	8.99	8.25	7.43
13A554	C2689	.005	22.5	.03	4 1/8 x 4 1/8 x 3 3/8	11.9	13.18	12.11	10.90



## STANDARD ELECTRIC ADJUST-A-VOLT VARIABLE TRANSFORMERS

Compact, industrial duty, voltage control auto-formers wound on toroidal silicon steel cores. Low resistance alloy brush contact varies output from zero to 17% above line voltage without interruption of current as knob is rotated. Can be wired for line voltage maximum if desired. Features long life, low maintenance, voltage regulation independent of load, no wave form distortion and very low temperature rise. Input, 120 volt 60 cy. AC, except \*240 V. for 520B. Cased units 500B and 520B have line cord, plug, output receptacle, pilot light, fuse and line switch. All have connection for limiting output to line voltage maximum if over voltage is not desired.

Stock No.	Factory No.	Output Voltage	Output Amps.	KVA	Size Dia.	Depth	Weight Lbs.	Net Prices 1-5	6-49
13A70	300BU	0-140	3.0	.42	3 1/8	3 1/8	5	\$12.50	\$11.25
13A72	500BU	0-140	7.5	1.05	5 1/8	5	10	18.00	16.20
13A74	500B	0-140	7.5	1.05	7 1/8	6 1/2	11	23.00	20.70
13A75	520B	0-280	3.0	0.84	4 3/8	6 1/2	11	26.00	23.40

## 1V-14M ISOLATED, METERED "ADJUST-A-VOLT"

Has separate primary and secondary. Professional, industrial quality unit with pilot light, input switch, output receptacle, output voltmeter, thermal circuit breaker. Input 120 V., output 0-140 V., 4 A., .56 KVA. Size 7 1/2 x 8 1/4 x 9 1/2" H. Wt. 20 lbs.

No. 37B368. Net Each ..... \$79.50



## SOLA TV-APPLIANCE AUTOMATIC LINE VOLTAGE REGULATOR

Banishes flicker and distortion from television screen due to line voltage variations caused by home appliances or other electric powered devices. Unit plugs into AC socket and has outlet for the TV power cord. Turns on automatically—no extra switching. Input line voltage may vary from 95 V. to 130 V., but output holds steady at 115 V. ± 3%. Size 8 1/2 x 7 1/4 x 4 1/2" high. Wt. 27 lbs. for 300 W., 20 lbs. for 180 W.

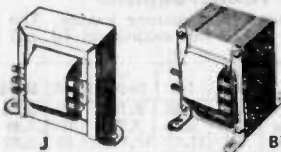
Stk. No.	Sola Type	Watts	List	Net Each
31B31	CVA72104	300	\$37.50	\$30.00
31B43	CVA72103	180	34.50	27.60

## NEW SOLA "COLORVOLT" AUTOMATIC REGULATOR

Utilizes the Sola harmonic free principle which delivers a good sine wave output, necessary because of the voltage sensitive circuits used in color TV receivers. Input 95-130 V. Nominal output 115-120 V. 400 VA max. 7 3/8 x 4 1/2 x 9 1/8" H. Wt. 32 lbs.

No. 31A42. Type CVA72107. Mfg. list \$55.00. Net Each.... \$44.00

## AUTOMATION CONTROL TRANSFORMERS



Typical applications: Relays, solenoids, control valves, small motors, electronic tubes, heating elements, low voltage lighting, signal lamps, buzzers, bells, etc. Dual winding primaries are connected parallel for 115 V.; in series for 230 V. 50-60 cy. AC. Dual secondaries also may be connected series or parallel. J mtg. except P6378 and P6379 are BV type.

Stock No.	Mfg. No.	Secondary Parallel	Sortos	V. A.	WL	Size H. W. D.			Net Prices		
						1-9	10-24	25-49			
13A617	P6375	6 V. @ 2A.	12 V. @ 1A.	12	1	2 3/8 x 2 3/8 x 1 3/8	\$ 3.27	\$ 3.00	\$ 2.70		
13A622	P6376	6 V. @ 4A.	12 V. @ 2A.	24	1.5	3 5/8 x 3 1/2 x 2	3.71	3.41	3.07		
13A623	P6377	12 V. @ 4A.	24 V. @ 2A.	48	2.5	3 1/2 x 3 1/2 x 2 3/8	4.69	4.31	3.88		
13A624	P6378	12 V. @ 8A.	24 V. @ 4A.	96	4.3	3 1/2 x 2 3/8 x 3	7.57	6.95	6.26		
13A627	P6379	12 V. @ 16A.	24 V. @ 8A.	192	8	4 1/8 x 3 1/2 x 3 3/8	13.06	11.99	10.81		

## REGOMATIC AUTOMATIC VOLTAGE REGULATOR

Input May Vary Between 95-130 Volts. Output, 115 V. ± 3%. Automatically corrects and stabilizes fluctuating line voltage for operating TV sets, FM-AM Tuners, Hi-Fi and industrial equipment at peak efficiency. Helps eliminate shrinking pictures, flicker and distortion; keeps Hi-Fi record turntable operating at more constant speed; eliminates laboratory and product testing problems brought about by unstable voltages. Built-in automatic relay turns regulator on with equipment. Requires no extra switching... just install and forget. Size 12" x 4" x 8 3/8" H. Wt. 10 1/2 lbs.

Model 200 Regomatic. For loads of 130 to 200 watts. No. 37B206. Mfg. List \$29.95. NET EACH..... \$17.64

Model 300 Regomatic. For loads of 180 to 300 watts. No. 37B207. Mfg. List \$29.95. NET EACH..... \$20.58

## REPLACEMENT REGULATOR TUBE FOR ABOVE

No. 20C233. Special CBC Type 15A20 Shpg. wt. 1 lb. Net Each.... \$2.94

## COMMERCIAL AND INDUSTRIAL USERS

B-A can supply all Stancor products. B-A is your one-stop source for all transformer needs. PRICES: Lowest factory OEM prices in quantities of 50 and 100 and over are quoted on request. Write or call our Industrial Division Baltimore 1-4266.



# Voltage Control Transformers

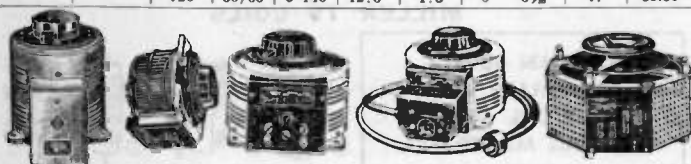
## SUPERIOR POWERSTAT VARIABLE TRANSFORMERS



116U, 117U, 216U, 217U

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. New type 21 has gold alloy plated commutator. Rhodium plated brush commutator in others is virtually maintenance free. Uncased types 10B, 21, 116U, 117U, 126U, 216U and 217U are panel mounting. Portable types 2PF10, 116, 216 and 2PF136 have input cord and output receptacle. Cased types 117 and 217 for bench or wall mount have enclosed terminal board. Other cased types 126, 136, 226, 236, 1156C and 1256C for behind panel, bench or wall mount exposed terminals.

Stock No.	Mfr's. No.	Input Volts	Input Cycles	Output Volts	Output Amps.	KVA	Size Dia.	Size Depth	Wt. Lbs.	Net Each
37A239	10B	120	50/60	0-120	1.75	.30	2 3/4"	2 3/4"	2.4	\$ 8.50
37B223	2PF10	120	60	0-132	1.0	.132	3 1/2"	3 1/2"	3.3	16.50
37A240	21	120	50/60	0-120	5.5	.66	3 3/4"	3 3/4"	5.5	12.50
37A241	116U	120	50/60	0-120	7.5	1.2	4 3/4"	4 3/4"	12	18.00
37A242	116	120	50/60	0-140	7.5	1.0	4 3/4"	4 3/4"	12	24.00
37B224	117U	120	60	0-120	10.0	1.6	4 3/4"	4 3/4"	12	18.50
37A225	117T	120	60	0-120	10.0	1.6	8"	6 1/2"	12	22.50
37B226	126U	120	50/60	0-120	12.5	2.2	6"	5 3/4"	17	31.00
37B232	126	120	50/60	0-140	12.5	1.8	6"	5 3/4"	17	35.00



117T, 217T, 126U, 126, 136, 226, 236, 2PF136, 1156C, 1256C

Stock No.	Mfr's. No.	Input Volts	Input Cycles	Output Volts	Output Amps.	KVA	Size Dia.	Size Depth	Wt. Lbs.	Net Each
37A341	136	120	50/60	0-120	20.0	3.0	7 3/4"	6 3/4"	25	\$ 50.00
37A342	2PF136	120	50/60	0-140	20.0	2.8	7 3/4"	6 3/4"	26	65.00
37B236	1156C	120	50/60	0-140	45.0	6.3	14 3/4"	8 1/2"	79	118.00
37B264	216	240	50/60	0-240	3.0	1.1	5 3/4"	6 1/4"	12	26.00
37B265	216U	240	50/60	0-280	3.0	.84	5 3/4"	6 1/4"	12	20.00
37A266	217T	240	60	0-240	4.0	1.5	6 3/4"	6 3/4"	12	25.00
37A255	217U	240	60	0-240	4.0	1.5	4 3/4"	6 3/4"	12	21.00
37B267	226	240	50/60	0-240	6.0	2.2	6 3/4"	5 3/4"	17	35.00
37A343	236	240	50/60	0-280	6.0	1.7	6 3/4"	5 3/4"	17	35.00
37B268	1256C	240	50/60	0-240	9.0	3.0	7 3/4"	6 3/4"	25	50.00
37C222	236-2	240	50/60	0-280	9.0	2.5	7 3/4"	6 3/4"	25	118.00
(2 Gang)		240	50/60	0-240	9.0	5.2	7 3/4"	13 3/4"	52	117.00

### NEW HIGH CURRENT 40-VOLT POWERSTATS

Appearance same as types 10B, 21 and 116U illustrated above. Designed to meet 6A, 15A, or 25A maximum high current needs in electronic and electrical control equipment. Features new gold alloy plated commutator. All other inherent Powerstat high quality features are retained. See listing above. Designed for increased output either clock-wise or counter clock-wise. Max. 60 cy. AC input 40 volts. Max output voltage equals input voltage.

Stock No.	Mfg. No.	Max. Output Amps	Max. Output KVA	Size Dia.	Size Depth	Wt. Lbs.	Net Each
37B363	10B-40	6.0	0.24	2 1/8"	2 1/4"	2.4	\$10.00
37B364	21-40	15.0	0.6	3 3/4"	3 3/4"	5.5	14.50
37B366	116U-40	25.0	1.0	4 3/8"	4 7/8"	12	20.50

**B-A CAN SUPPLY ALL SUPERIOR PRODUCTS AT OEM PRICES**

For speedy information and lowest prices on other Superior Powerstats not listed above; for Motor Driven Powerstats, Line Correctors, completely automatic Stabiline Voltage Regulators of the instantaneous electronic and transistorized type and for assistance and prices on other Superior products including "Varicell" AC/DC power supplies, Slo-Syn synchronous motors and Supercon 50 and 100 ampere connectors, B-A is your supplier. We quote lowest OEM prices. Free Superior Catalogs available on request. Please indicate product. Call or write our Industrial Division for fast service. Telephone BALtimore 1-4266, direct to Industrial Order Dept.

## SOLA CONSTANT VOLTAGE TRANSFORMERS



① STANDARD SINUSOIDAL TYPE CVS

Harmonic-free, static-magnetic line voltage regulators having ultra-fast regulating action. Response time 1.5 cycles or less. Output voltage is constant within  $\pm 1\%$  with input voltage variation as great as  $\pm 15\%$ . Less than 3% total RMS harmonic content in output; therefore well suited for critical instruments and systems. All Type CVS Transformers have exposed core, end housings and screw terminals in outlet box, Fig. ① above.

Stock No.	Mfr's. Type	*Input Volts	Output Volts	Output Watts	Size L.	Size W.	Size H.	Shpg. Wt.	Net Price 1-4	Net Price 5-9
31A35	23-13-060	95 to 130	118	60	6 3/4"	4	5 3/4"	10	\$ 30.00	\$ 27.00
31A36	23-22-112	Note 1	118	120	8	4	5 3/4"	14	38.00	34.20
31B33	23-22-125	Note 1	118	250	9 1/2"	5 3/4"	7 3/4"	28	52.00	46.80
31B34	23-22-150	Note 1	118	500	12 3/4"	9	6 3/4"	47	81.00	72.90
31A37	23-22-210	Note 1	118	1000	17 3/4"	9	6 3/4"	80	135.00	121.50
50A111	23-25-220	Note 2	118 & 236	2000	19 1/2"	12 1/2"	10 1/4"	183	245.00	220.50
50A120	23-25-230	Note 2	118 & 236	3000	21 1/2"	12 1/2"	10 1/4"	270	330.00	297.00

\*Input Volts: Note ① dual range 95 to 130 and 190 to 260 volts; Note ② 95 to 130, 175 to 235 and 190 to 260 volts.

### NORMAL-HARMONIC TYPE CVN

Reliable regulators for most electrical loads, such as filaments, relays, solenoids and other transformers serving AC loads. Regulation  $\pm 1\%$  with input voltage variation as great as  $\pm 15\%$ . Average total RMS harmonic content in output voltage, 14%.

Input 95 to 130 volts for all CVN types.

Stock No.	Mfr's. Type	Output Volts	Output Watts	Mtg. Fig.	Size L.	Size W.	Size H.	Shpg. Wt.	Net Price 1-4	Net Price 5-9
13A561	20-10-015	118	15	3	5 3/4"	2 3/4"	3 1/4"	4	\$ 15.00	\$ 13.50
13D215	20-13-030	118	30	1	6	4	5 3/4"	7	20.00	18.00
13D216	20-13-060	118	60	1	6	4	5 3/4"	10	25.00	22.50
37B177	20-13-112	118	120	1	7 1/4"	4	5 3/4"	13	33.00	29.70
37A178	20-13-125	118	250	1	11 1/4"	6 3/4"	6 3/4"	25	49.00	44.10
37A179	20-13-150	118	500	1	12 1/4"	6 3/4"	6 3/4"	36	77.00	69.30
37A180	20-13-210	118	1000	1	15 1/4"	6 3/4"	6 3/4"	54	128.00	115.20

② PLUG-IN ADAPTER KIT. Two wire cord and socket for portable-bench operation. Easily installed on transformers designated.

No. 31A38. Type 999-004. Fits 30, 60, 120 W. CVN; 60, 120 W. CVS. Net Each **\$1.75**  
 No. 31B44. Type 999-005. Fits 150 W. CVN, 250 W. CVS. Net Each **\$1.75**  
 No. 31A39. Type 999-009. Fits 250, 500 W. CVN; 500, 1000 W. CVS. Net Each **\$2.00**

### FILAMENT TYPE CVF

For assembly into electronic equipment. Type 20-02-015 has drawn case Fig. 3. 20-04-030 in upright mtg. with separate capacitor, Fig. 4. 95 to 130 volt primary.

Stock No.	Mfr's. Type	Output Volts	Output Amps.	Mtg. Fig.	Size L.	Size W.	Size H.	Shpg. Wt.	Net Price 1-4	Net Price 5-9
13A555	20-02-015	6.3	2.38	3	5 3/4"	2 3/4"	3 1/4"	6	\$15.00	\$13.50
13A556	20-04-030	6.3	5.0	4	4 3/4"	3 3/4"	3 1/4"	6	16.00	14.40

### ③ PLATE-FILAMENT TYPE CVE

For automatic regulation within  $\pm 3\%$  of both plate and filament supply voltages to critical electronic equipment with primary input variation between 100-130 volts. In upright mtg. with separate regulator capacitor, Fig. 4 DC output is from rectifier tube, Type 5Y3 for 7104 and 7106.

Stock No.	Mfr's. Type	DC Output Volts @ MA	Filaments 5 V. @ 6.3 V. @	Size L.	Size W.	Size H.	Shpg. Wt.	Net Prices 1-4	Net Prices 5-9	
13A558	7104	275	50	2 A 2.5 A.C.T.	4 3/4"	3 1/4"	3 3/4"	6	\$12.00	\$10.80
13A559	7106	385	100	2 A 3 A.C.T.	4 3/4"	3 1/4"	3 3/4"	8	15.00	13.50

## RAYTHEON MAGNETIC VOLTAGE REGULATORS

INPUT 95 TO 130 VOLTS 60 CY. AC  
 OUTPUT CONSTANT WITHIN  $\pm 1\%$

Completely automatic. Contains no moving parts and cannot be damaged by accidental overload or even short circuit. Stabilizers of like type can be parallel for greater output. All units designed for single-phase 60-cycle operation. 2000 and 3000 VA units have 3 range input; 95-130, 175-235 and 190-260 volts.



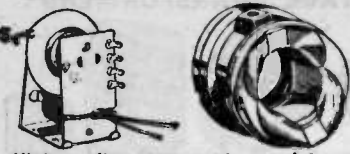
Stock No.	Mfr's. Type	Output VA	Output Volts	Size L.	Size W.	Size H.	Weight Lbs.	Net Each
13A474	RVA-15	15	117	5 3/4"	2 1/4"	4 3/4"	3	\$ 15.00
13A475	RVA-30	30	117	5 3/4"	2 1/4"	5 3/4"	5	20.00
13B78	RVA-60	60	117	5 3/4"	3 3/4"	6 3/4"	9	25.00
13B78	RVA-125	125	117	9 1/2"	4 1/2"	6 3/4"	14	33.00
13A307	RVA-250	250	117	9 1/2"	4 1/2"	7 1/4"	24	49.00
13A308	RVA-500	500	117	9 1/2"	4 1/2"	10 1/4"	39	77.00
37A345	RVA-1000	1000	117	9	9	14 1/4"	59	128.00
50A45	RVA-2000	2000	117/234	9	9	16 1/2"	86	232.00
50A46	RVA-3000	3000	117/234	9	9	19 3/4"	124	315.00

### AC CORD, PLUG AND OUTPUT SOCKET ADAPTORS

Handy accessory for portable bench use of regulators.  
 No. 13A297. Type RCP-40. For 15 and 30 VA units. Net Each **\$1.75**  
 No. 13A298. Type RCP-75. For 60 VA Unit. Net Each **\$1.75**  
 No. 13A299. Type RCP-500. For 125, 250, and 500 VA Units. Net Each **\$2.00**  
 Ask for Catalog No. 25A206 covering other Raytheon Magnetic Voltage Regulators having output ratings up to 2000 watts for nominal 115 and 230 V. power circuits, and regulating plate-filament power transformers to hold voltages within  $\pm 3\%$ .



# Television Service Parts



## STANCOR TV COMPONENTS

- Exact Engineered Replacements.
- Duplicates Electrically and Physically.
- Minimum Installation Time Required.

High quality components equal to or better than the original parts. Should you not be able to identify needed items from the listing below—then merely state make, model and chassis number of set, name of part and original part number. B-A will select the replacement for you.

ASK FOR FREE STANCOR "PART-TO-PART" TV TRANSFORMER GUIDE Stock No. 25A207.

## EXACT REPLACEMENT FLYBACK TRANSFORMERS

Built to exact original specs. No circuit or chassis alterations needed. Average shipping weight 1 lb. Order by Stock No. 13A799 and Stancor No.

Stancor Type	Net Each	Stancor Type	Net Each	Stancor Type	Net Each	Stancor Type	Net Each
A-8127	\$6.88	A-8235	\$5.38	A-8270	\$6.53	HO-268	\$6.00
A-8128	6.88	A-8236	7.76	A-8271	6.53	HO-271	6.53
A-8129	7.17	A-8237	6.76	A-8279	7.14	HO-274	6.76
A-8130	7.17	A-8238	6.66	A-8281	6.20	HO-276	6.47
A-8131	5.87	A-8239	6.98	A-8285	7.64	HO-277	9.41
A-8132	8.82	A-8240	7.06	A-8288	6.17	HO-280	8.28
A-8133	9.89	A-8241	6.36	A-8292	7.06	HO-281	8.82
A-8134	8.96	A-8244	6.60	A-8294	7.06	HO-282	8.37
A-8135	7.64	A-8248	9.37	A-8295	7.08	HO-283	5.83
A-8136	7.47	A-8252	6.53	A-8296	6.00	HO-284	7.06
A-8137	6.99	A-8254	5.59	A-8298	7.88	HO-287	7.18
A-8139	6.53	A-8255	6.49	A-8299	8.22	HO-290	6.05
A-8220	8.22	A-8256	7.15	HO-250	6.49	HO-293	8.52
A-8224	9.11	A-8258	6.53	HO-251	5.82	HO-301	7.17
A-8228	5.53	A-8261	6.63	HO-254	6.47	HO-303	6.47
A-8229	5.29	A-8262	6.91	HO-255	6.47	HO-305	7.79
A-8230	7.35	A-8263	7.56	HO-256	6.47	HO-306	9.26
A-8231	7.35	A-8264	6.00	HO-257	7.47	HO-307	8.44
A-8232	7.35	A-8265	7.56	HO-259	6.47		
A-8233	7.35	A-8266	6.17	HO-264	6.53		
A-8234	4.67	A-8267	7.06	HO-265	5.83		

## TV POWER TRANSFORMERS

All primaries for 117 V, 60 cycle operation.

Stk. No.	Stancor No.	Wt. Lbs.	Each	Stk. No.	Stancor No.	Wt. Lbs.	Each
13A405	P-8164	7.5	\$15.88	13A302	P-8335	13	\$17.00
13A301	P-8166	13	19.29	13A649	P-8340	12	18.40
13A408	P-8169	10.5	16.77	13A668	P-8356	6.5	10.95
13A656	P-8171	10.5	17.64				

## VERTICAL DEFLECTION OUTPUT TRANSFORMERS

\*Type VO-109 is new multi-ratio type suitable in both isolation and auto-former circuits.

Stk. No.	Stancor No.	Wt. Lbs.	Each	Stk. No.	Stancor No.	Wt. Lbs.	Each
13C218	A-8112	1	\$2.94	13A222	A-8147	1	2.88
13C219	A-8113	1.2	3.09	13B510	A-8148	1.5	3.37
13C235	A-8123	1.2	2.91	13A206	A-8150	1.7	4.06
13A440	A-8140	2.5	5.23	13B512	VO-100	1.5	3.40
13A441	A-8141	1.5	4.17	13B513	VO-101	1.5	3.30
13A213	A-8142	2.5	5.03	13B517	VO-105	1.5	2.71
13A683	A-8143	2	3.37	13A568	*VO-109	1.5	5.41
13A684	A-8144	1.5	3.13				

## DEFLECTION YOKES (Shpg. Wt. 1 Lb.)

Stock No.	Stancor No.	Net Each	Stock No.	Stancor No.	Net Each
13C260	DY-1A	\$7.54	13B509	DY-13A	\$10.17
13A658	DY-2A	7.22	13D112	DY-14A	7.58
13A433	DY-8A	7.22	13C113	DY-15A	7.88
13A434	DY-9A	8.40	13C116	DY-16A	9.17
13A435	DY-10A	7.22	13A199	DY-27A	10.24
13A601	DY-11A	8.89			

## STANCOR VERTICAL BLOCKING OSCILLATOR TRANSFORMERS (Wt. 2 Lbs.)

13C253	A-8111	\$1.94	13A611	A-8125	\$1.91
13C257	A-8122	3.83	13A612	A-8126	1.94



## PERMANENT MAGNET FOCUSING ASSEMBLY

QF4 Quam Focalizer. PM unit to be used in place of conventional focus coil. For 15 KV to 18 KV tubes. Mfg. list \$5.25.

No. 22B157. Net Each ..... **\$3.15**

## TV SERVICE CORDS



### ① CHEATER CORDS

#18 POSJ—6 ft. brown rubber cord with rubber standard safety interlock connector for plugging set into AC socket while back panel is detached or chassis out of cabinet. 10 Lots, **29c**  
 No. 19B907. Each ..... **35c**  
 No. 16A635. For Zenith Sets. Each ..... **69c**

### STANDARD TV INTERLOCK RECEPTACLE. Mfg. ctrs. 1 1/2"

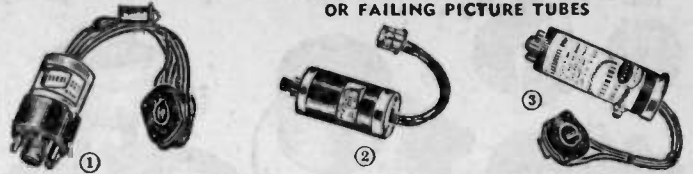
① No. 16B540. Recessed mounting. CHOICE, **9c** 10 Lots, **8c**  
 ② No. 14B254. Flush mounting. NET EACH, **8c** Each, **8c**

### ④ HIGH QUALITY EXTENSION LEADS

No. 14B281. 4 Ft. high voltage anode lead. Each ..... **79c**  
 No. 14B283. 4 Ft. 6 wire pix tube extension. Each ..... **\$1.14**  
 No. 14A167. 3 Ft. Sylvania 110° pix tube extension. Each ..... **\$1.32**  
 No. 14A168. 3 Ft. RCA 110° pix tube extension. Each ..... **\$1.32**  
 No. 14B284. Universal 8 wire yoke extension. Each ..... **\$1.20**

## PERMA-POWER TV TUBE BRIGHTENERS

ADD MONTHS TO LIFE OF WEAK OR FAILING PICTURE TUBES



### ① UNIVERSAL GOLDEN "C-BRITE" SERIES OR PARALLEL, 6.3 V, 0.6 A., DUODECAL BASE

For electrostatic or magnetic focus picture tubes. Handles the majority of brightener needs. Boosts to 7.8 volts to increase cathode emission. Gold anodized aluminum housing stays new looking, especially important where it is desirable to use same unit over again many times. Wt. 8 oz. No. 29B57. Model C-201. Mfg. list \$2.49. **\$1.46**  
 Net Each .....

### ① LOWEST PRICED BRITENERS NOTHING TO ADJUST—FITS DUODECAL BASE TUBES

Boosts filament to 7.8 volts. Mfg. list \$1.49. Wt. 8 oz. No. 29A101. Model C-401 for parallel wired filaments, 6.3 V. @ 0.3, 0.45 or 0.6 A. No. 29A102. Model G402 for series wired filaments, 6.3 V. @ 0.6 A. Choice **87c** 10 Lots, **79c**  
 Net Each .....

### ② NEW UNIVERSAL "2-BRITE" "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. Mfg. list \$3.75. No. 29B54. Model C-202. Duodecal Base. Your Choice **\$2.21**  
 No. 29B55. Model C-212. 110° Button Base (RCA) Net  
 No. 29B56. Model C-222. 110° Shell Base (Sylv.) Each .....

### ③ TV TUBE RESTORER

Corrects dozens of picture tube faults. Simple cure for open cathode, heater to cathode short, open control grid, control grid to cathode short, low emission or combinations of above. For series or parallel, electrostatic or magnetic focus tubes. Wt. 1 lb. No. 29B156. Model K-101. Mfg. list \$6.65. Net Each ..... **\$3.90**

## MILLER TV COILS

B-A CAN SUPPLY ALL MILLER COIL PRODUCTS. ORDER STATING MILLER NO.



### ① 4.5 MC INTERCARRIER SOUND IF COMPONENTS

Iron core single and double tuned. Discriminator is Foster-Seeley type. Dimensions 1 1/8" sq. x 2 1/8" H. except 1469, 1470 and 1480, without shield. 6203, 6204 and 6205 are miniature 3/4" sq., 2" high.

Stk. No.	Type	Description	Net Ea.	Stk. No.	Type	Description	Net Ea.
17A533	1466	Input-Int. Stg. Discrim.	\$1.76	17A893	6204	Discrim.	\$2.20
17A534	1467	Discrim.	2.06	17A537	1470	Trap	.68
17A535	1468	Ratio Det.	2.20	17B451	1480	Quadrature	.88
17A536	1469	Pick Off	.88	17B783	1481	Quadrature	1.15
17A892	6203	Input-Int. Stg.	1.94	17A894	6205	Ratio Det.	2.20

### ③ HORIZONTAL OSCILLATOR & SYNC. CONTROL COILS

Permeability tuned shielded assemblies for use in horizontal sweep oscillator and automatic frequency control circuits. Maximum size 1 1/8" sq. x 2 1/2" high.

Stk. No.	Type	Description	Net Ea.
17B861	6194	Synchrolock, Osc. & AFC Discriminator	\$1.82
17B863	6183	Osc. & Sync. Freq. & Phase Stabilizer	1.91
17A538	6210	Sync. Stabilizer, 16-42 mh.	1.47
17A581	6212	Horiz. Osc., tapped 12-35 mh.	1.47
17A582	6324	Horiz. Osc., tapped 60-130 mh.	1.47

### ④ VIDEO PEAKING COILS

On molded plastic forms, except shunt types, wound over resistor. Type 6175 Filament Choke, 3/8" dia. x 7/8" long; All video Peaking Coils, 1/2" dia. x 3/8" long.

Order by Group Stock No.	Miller No.	Micro Hy.	Miller No.	Net Each
17A697				50c
		0.8	6175	
		20	6152	
		36	6176	
		60	6110	
		93	6177	
		100	6112	
		120	6153	
		155	6120	
		180	6180	
		200	6154	
		250	6181	
		300	6155	
			330	6132
			375	6134
			470	6138
			500	6174
			800	6156
			950	6157

### ④ ADJUSTABLE WIDTH CONTROLS

With mtg. clip to fit 1/8" or 1/4" hole. Required in TV, widely used in low frequency oscillator circuits and as adjustable RF chokes.

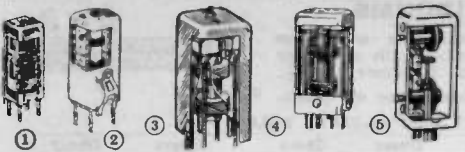
Stock No.	Miller Type	Induct. Milli-Hy.	Net Each	Stock No.	Miller Type	Induct. Milli-Hy.	Net Each
17B739	6313	5-5	\$1.18	17B749	6323	5-5 Tapped	\$1.03
17B740	6314	2.5-17	1.12	17B750	6324	60-130 Tapped	1.47
17B741	6315	4-30	1.18	17B764	6330	45-215	1.62
17B742	6316	4-30AGC	1.62	17B720	6195	.185-1	.88
17B744	6318	3-3	1.00	17B721	6196	.054-.245	.73
17B745	6319	15-60	1.47	17B723	6197	55-2.3 Tapped	.85
17B747	6321	1-5 Tapped	1.18	17B727	6199B	5-1.7	.88
17B748	6322	1.5-10	1.12				

## B-A WILL SELECT YOUR TV REPLACEMENT PARTS FOR YOU!

Should you find it impossible to order the correct replacement TV item from the listings above... then send us your order stating make, model and chassis number of set, name of part and original part number. B-A will select the correct replacement for you.



# Miller IF & RF Coils



**HIGH QUALITY  
AIR CORE AND  
IRON CORE IF  
TRANSFORMERS**

## ① 1/2" Sub-Miniature Iron Core IF's

For midget tube type radios. Size 1/2" sq., 1 1/2" H.

Description	Stk. No.	Miller No.	Co.	Description	Stk. No.	Miller No.	Co.
455KC Input	17A452	10-C1	\$1.65	455KC Output	17A455	10-C2	\$1.65

## ② 3/4" Miniature "K-Tran" Iron Core IF's

Slug tuned, top and bottom. Silver mica condensers. 3/4" sq., 2" H. For standard mounting to chassis. \*13PC1 and 13PC2 for printed circuits.

Stk. No.	Type	Description	Net Co.	Stk. No.	Type	Description	Net Co.
17A886	12C1	455 KC Input	\$1.59	17A896	12W2	1500 KC Output	1.76
17A887	12C2	455 KC Output	1.59	17A889	1463	10.7 MC Input	1.91
17A445	13PC1	455 KC Input	1.62	17A890	1464	10.7 MC Discr.	2.20
17C450	13PC2	455KC Output	1.62	17A891	1465	10.7 MC Ratio	2.29
17A895	12W1	1500 KC Input	1.76			Det.	

## ③ 3/4" Miniature "J"-Tran Iron Core IF's

Modern top-tuned type. Has hollow hexagonal-hole cores which permit either double or single ended tuning. Snap fastener mount. 3/4" Sq., 2" High. \*With diode filter condenser. Special types 14C7 and 14C8 are for for battery radios, 14C9 and 14C10 for AC-DC radio 6270 also interstage.

Stk. No.	Type	Description	Net Co.	Stk. No.	Type	Description	Net Co.
17A360	14H1	262 KC Input	\$1.70	17A379	14C7	455 KC Input	\$1.59
17A365	14H2	262 KC Output	1.70	17A381	14C8	455 KC Output	1.59
17A368	14H6*	262 KC Output	1.76	17A384	14C9	455 KC Input	1.59
17A369	14C1	455 KC Input	1.59	17A385	14C10	455 KC Output	1.59
17A370	14C2	455 KC Output	1.59	17A387	6270	4.5 MC Input	1.70
17A376	14C6*	455 KC Output	1.68	17A388	6271	4.5 MC Ratio	2.91
						Det.	

## ④ 1 1/8" Midget IF's—Mica Trimmer Tuned—2" High

Double tuned construction for excellent gain and selectivity.

IRON CORE				AIR CORE			
Description	Stk. No.	Miller No.	Net Co.	Description	Stk. No.	Miller No.	Net Co.
455KC Input	17A909	012-C1	1.82	17A635	112-C1		\$1.76
455 KC Interstage	17A473	012-C2	1.82	17A474	112-C2		1.76
455KC Fullwave Output	17A911	012-C3	1.82	17A636	112-C3		1.76
455KC Halfwave Output	17A912	012-C4	1.82	17A637	112-C4		1.76
1500KC Input	17A472	012-W1	1.82	17A471	112-W1		1.76

## ⑤ Low Cost Universal IF Transformers

AIR CORE-CERAMIC TRIMMERS—2 1/2" HIGH

Popular all purpose replacements for household and portable radios.

Stk. No.	Description	Net Co.	Stk. No.	Description	Net Co.
17A917	312C1 455 KC Input	\$1.68	17A919	312C4 455 KC Output	\$1.68

## ⑥ 1 3/8" Permeability Tuned Transformers

For unmatched stability. Capacitors are zero drift silver micas. Both tuning slugs accessible from one side of shield can. Can size 1 3/8" square, 3 1/4" high except BFO which is 2 1/4" high. Wt. 6 oz.

Stk. No.	Miller No.	Freq.	Description	Net Each
17A921	912-C1	456KC	Input IF	\$2.65
17A922	912-C2	456KC	Interstage IF	2.65
17A924	912-C4	456KC	Output IF Halfwave	2.65
17A925	912-C5	456KC	Beat Frequency Oscillator	2.06
17A648	1890-P1	100KC	Input or Interstage	5.58

## MINIATURE TRANSISTOR RADIO COILS



### ① MILLER SUB-MINIATURE TRANSISTOR IF

Very small, only 3/8" sq., 5/8" high. Finest construction

Stk. No.	Miller No.	Frequency	Description	Net Each
17B905	9-C1	455KC	Input, Pri. 25 K, Sec. 600	\$2.35
17B906	9-C2	455KC	Output, Pri. 25 K, Sec. 1000	2.35
17B982	2031	455KC	Input, Pri. 10 K, Sec. 600	\$2.06
17B983	2032	455KC	Output, Pri. 10 K, Sec. 1000	2.06
17C457	2041	455KC	Input, Pri. 25 K, Sec. 600	2.06
17B794	2042	455KC	Output, Pri. 25 K, Sec. 1000	2.06
17A651	2051	455KC	Input, Pri. 100 K, Sec. 1000	2.06

### ② UNSHIELDED TRANSISTOR OSCILLATOR COILS

Range 540 to 1650 KC. IF, 455 KC. Mtg. clip fits 3/8" hole. Size 3/8"x1" H. 2020 and 2022 are 5 lug type for single transistor oscillator-mixer. 2023 is 6 lug type for two transistor oscillator and mixer.

Stk. No.	Type	Tunes With	Use Podder	Net Co.
17C477	2020	365 Mmf.	.0004 Mfd.	\$1.47
17B789	2022	78-100 Mmf.	None	1.47
17B984	2023	365 Mmf.	.0004 Mfd.	1.47

### ③ SHIELDED SUB-MINIATURE OSCILLATOR COIL

Perfect companion to sub-miniature IF's above. 3/8" sq., 5/8" H. Tunes with 78-100 mfd. condenser. Requires no podder.

No. 17B790. Miller Type 2021. Net Each.....\$2.06

### ④ NEW MINI-MINIATURE TRANSISTOR RADIO COILS

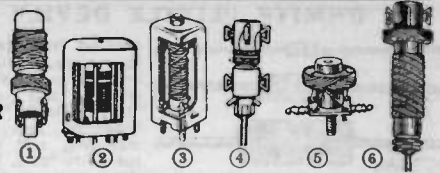
Ultra small, rugged and mechanically stable. Cup core tuned. Has built-in high Q capacitors. 4 1/2" sq. x 1/2" high. Shielded. 2065 oscillator tunes 540 to 1650 KC with 78 to 100 mfd condenser.

Stk. No.	Miller No.	Frequency	Description	Net Co.
17C709	2066	455 KC	Input, Pri. 50K, Sec. 800	\$2.06
17C710	2067	455 KC	Interstage, Pri. 30K, Sec. 500	2.06
17C711	2068	455 KC	Output Pri. 20K, Sec. 5K	2.06
17C712	2065	Oscillator		2.06

## 2-GANG SUBMINIATURE CONDENSER

New high quality thin type variable, only 1 1/8" sq. x 3/4" deep with 1/4" dia. x 1/2" shaft. RF section 11 plates 5.3 mmfd.—117.1 mmfd. Osc. section 9 plates 4.2 mmfd.—74.4 mmfd. Trimmer range 1.8-8mmfd. No. 17C707. Miller 2109. Net Each.....\$2.06

## COMPACT RF AND OSCILLATOR COILS FOR CONSTRUCTION OR REPLACEMENT



## AIR CORE BROADCAST BAND COILS

High gain, four-bank Litz wire wound secondaries, high impedance primaries. Tune 540-1700 KC with 365 mmfd. condenser.

① Unshielded (1 1/8" D. x 2 1/8" H.)				② Shielded (1 3/8" Sq. x 2 1/2" H.)			
Stk. No.	Miller No.	Description	Each	Stk. No.	Miller No.	Description	Each
17A935	43-A	Antenna	.88	17A940	44-A	Antenna	\$1.03
17A936	43-RF	RF	.88	17A941	44-RF	RF	1.03
17A938	43-C	2-Winding Osc.	.88	17A943	44-C	2-Winding Osc	1.03
17A939	43-C	Tapped Osc.	.88				

## ③ SHIELDED AIR CORE MINIATURE COILS

Ultra compact. 3/4" sq. x 2" H. Tune with 365 mmfd. condenser.

Order by Group Stock No. 17A698 and Miller No.						
Description	140-425 KC	Net Co.	540-1700 KC	Net Co.	2.1-6.3 MC	Net Co.
Antenna	X-121A	\$1.47	A-121A	\$1.32	B-121A	\$1.32
RF Stage	X-121RF	1.47	A-121RF	1.32	B-121RF	1.32
Oscillator	X-121C	1.47	A-121C	1.32	B-121C	1.32

## ④ MINIATURE ADJUSTABLE COILS

Extremely compact iron core units 1/2" dia. x 1 1/2" long. Tune 540-1600 KC with any condenser having maximum capacity between 250 and 450 mmfd. Oscillator coils track with IF amplifier between 100 and 550 KC. Type 70-OSC has primary and tapped secondary; 69-OSC has capacity coupled winding. Clip mtg. in 3/8" hole.

Stk. No.	Miller No.	Description	Each	Stk. No.	Miller No.	Description	Each
17A932	70-A	Antenna	\$1.03	17A934	70-OSC	Oscillator	\$1.03
17A933	70-RF	RF	1.03	17A650	69-OSC	Oscillator	1.03

## ⑤ COMPACT UNIVERSAL OSCILLATOR COIL

Iron core adjustable for tracking with variable condensers having max. value between 250 and 450 mmfd. in all types of circuits with all types of tubes. Size 3/8" dia. x 1 1/2" high. Spring mtg. Clips fit 3/8" dia. hole. RF range 500-1800 KC. IF range 100-550 KC. 4 oz. No. 17A956. Miller No. 71-OSC. Net Each.....\$1.47

## ⑥ UNSHIELDED COMPACT OSCILLATOR COILS

Tune with 365 mmfd. variable condenser and series padder from 540 to 1600 KC. 1" dia. x 1". Wt. 4 oz.

Two Winding Type. For Pentagrid converter tubes. 17A954. Type 5480C. 455 KC IF. Requires .0004 padder. Net Co. . \$1.03

Topped Coil Type with cathode return. For 6SA7, etc., where separate oscillator and mixer are used. 17A955. Type 5481C. 455 KC IF. Requires .0004 padder. Net Co. . \$1.03

## ⑦ ADJUSTABLE ALL-WAVE RADIO COILS

High Q shielded. 3/8" x 2". Tune with 365 mmfd. condenser. Order by Group Stock No. 17A699 and Miller No. Net Each.....\$1.47

Description	140-420 KC	540-1700 KC	1.7-5.5 MC	5.5-18 MC	12-36 MC
Antenna	X5495A	A5495A	B5495A	C5495A	D5495A
RF Stage	X5495RF	A5495RF	B5495RF	C5495RF	D5495RF
Std. Osc.	X5495C	A5495C	B5495C	C5495C	D5495C
Tapped Osc.	X5496C	A5496C	B5496C	C5496C	D5496C

## FM RF COILS AND TUNING CONDENSER

Signal frequency, 88-108 MC, permeability tuned coils for clip mounting in 3/8" dia. hole. Designed to tune with 6.6-23 mmfd. 3 section condenser Type 1461 below. Osc. coil tracks with 10.7 MC IF.

Stk. No.	Miller No.	Description	Net Each
17A652	1447	88-108 MC Ant. Coil	\$1.09
17A653	1448	88-108 MC RF Coil	1.09
17A654	1449	88-108 MC Osc. Coil	1.09
17A656	1461BS	3 Sect. FM Tuning Cond.	3.53

## HIGH Q FERRITE ROD ANTENNAS



Highest quality litz wire, wound on low loss ferrite cores for the highest pickup obtainable. For replacement in or construction of conventional tube or transistor sets. Takes the place of antenna coils and hank or loop antennas. Transistor types have 600 ohm pat. Range 540-1650 KC.

① Adjustable Sub-Miniature. 1/2"x2 1/2". Mounts with clip in 3/8" hole.				
Stk. No.	Type	For Set	Tunes With	Net Each
17A958	6300	Tube	350-450 Mmf.	\$0.82
17B907	2002	Transistor	250-450 Mmf.	1.00
17B987	2007	Transistor	100-250 Mmf.	1.29
② Miniature. 3/4"x3 3/4". Has convenient 2 hole mounting base.				
17B988	2001	Transistor	365 Mmf.	1.62
17B989	2003	Transistor	130 Mmf.	1.62
③ Flat Style. 1/4"x3/4"x3 3/4". Remarkably sensitive.				
17B791	2004	Transistor	365 Mmf.	1.62
17B792	2005	Transistor	130 Mmf.	1.62
④ Long Loop-Rod. Highest efficiency. Type 705A; adjustable, recommended for replacing "old style" wire loops. Size with mtg. 3 1/4"x9 1/2". Type 2000 for transistors measures 3 1/4"x9". Both may be removed from mtg. boards.				
17B828	705A	Tube	300-400 Mmf.	1.76
17C479	2000	Transistor	365 Mmf.	1.76

## CAPACITY RELAY COIL

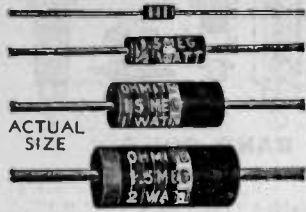
Basic oscillator coil for constructing a capacity operated control system for displays, show windows, alarms, etc. System would take the place of normal "off-on" switch and provide automatic control when a person or object moves close. Coil size: 7/8" dia. x 2 1/4" H. With typical wiring diagram. No. 17A655. Type 695. Net Each.....\$2.06





# Ohmite Carbon & Power Resistors

## OHMITE "LITTLE DEVIL" RESISTORS



Molded insulated composition resistors in four sizes, 1/10, 1/2, 1 and 2 watts. Tiny in size but have exceptional ruggedness, stability and current carrying capacity. All "Little Devils" are RETMA color coded. Meet all test requirements of Mil-R-11, including salt water immersion and high humidity tests. Have high insulation breakdown voltage, low noise level, low voltage co-efficient. Can be used at their full wattage ratings at 70° C (158° F) ambient temperature and dissipate heat rapidly.

### RETMA VALUES—Specify Stock No. and Resistance

Ohms	Ohms	Ohms	Ohms	Ohms	Megohms	Megohms
1/2-Watt and Size Only	10	82	5,600	47,000	0.39	3.3
2.7	12	100	820	6,800	0.47	3.9
3.3	15	120	1,000	8,200	0.56	4.7
3.9	18	150	1,200	10,000	0.68	5.6
4.7	22	180	1,500	12,000	0.1 Meg.	6.8
5.6	27	220	1,800	15,000	0.12 Meg.	8.2
6.8	33	270	2,200	18,000	0.15 Meg.	1.2
8.2	39	330	2,700	22,000	0.18 Meg.	1.5
	47	390	3,300	27,000	0.22 Meg.	1.8
	56	470	3,900	33,000	0.27 Meg.	2.2
	68	560	4,700	39,000	0.33 Meg.	2.7

Quantity prices apply to One Value Only.

Stk. No.	Watts	1-49 Ea.	50-99 Ea.	100-249 Ea.	250-499 Ea.	500-999 Ea.	1000-up Ea.
15B1026*	1/10	.22	.20	.14	.122	.112	.105
15A1002	1/2	.11	.06	.05	.04	.032	.03
15A1004		.17	.09	.08	.055	.05	.045
15A1005	2	.22	.15	.11	.096	.088	.082

All above are 10% tolerance. \*10 ohms to 1 meg. only.

## OHMITE OHMS LAW CALCULATORS



Packet size slide rule with parallel resistance scale and standard slide rule scales A, B, C and D on one side and Ohms Law Calculator with full instructions on the other side.

No. 14B25. NET EACH ..... **25c**  
Durable Plastic Model. Same as above but impervious to wear. **\$1.50**  
No. 14B304. NET EACH .....



COLOR CODE GUIDE FOR RESISTORS. Here is one of the handiest Color Code Guides for Resistors ever devised. Standard RETMA range is automatically and accurately indicated.  
No. 16A116. Each..... **10c**

## OHMITE 5-10-20 WATT "BROWN DEVILS"

Small size wire wound units with wire leads for convenient mounting. Extra sturdy, vitreous enameled coating provides lasting protection from humidity and mechanical damage. Tolerance is ± 5%. Sizes: 5 watt 1x3/8", 10 watt 1 3/8x3/8", 20 watt 2x1 1/8".



Specify Stock No. and Resistance on all orders.

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
.5	25	300	1100†	4500	13,500†	50,000
1	30†	350	1200	5000	15,000	55,000
1.5†	35†	400	1250	6000	16,000†	60,000
2	40†	450†	1500	7000	17,500†	65,000
3	50	500	1750	7500	18,000†	70,000
4	75	600†	2000	8000	20,000	75,000
5	100	650†	2250	8500†	22,500†	80,000
7.5†	125†	700	2500	9000	25,000	85,000
10	150	750	2750†	10,000	30,000	90,000
12†	200	800	3000	11,000†	35,000	95,000
15†	225†	900	3500	12,000†	40,000	100,000
20†	250	1000	4000	12,500	45,000	

5-WATT "BROWN DEVILS". Available in above values from 1 Ohm to 25,000 Ohms except values marked \*. Specify Stk. No. 15B1023 and value.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
1 to 1000 Ohms	.51	.44	.36	.31
1100 to 5000 Ohms	.54	.47	.39	.33
6000 to 10,000 Ohms	.57	.49	.41	.35
12,500 to 20,000 Ohms	.64	.55	.46	.39
22,500 to 25,000 Ohms	.67	.58	.48	.41

10-WATT "BROWN DEVILS". Available in above values from .5 Ohm to 50,000 ohms except those values marked †. Specify Stk. No. 15B1006 and value when ordering.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
.5 to 1000 Ohms	.58	.48	.40	.34
1100 to 5000 Ohms	.60	.52	.43	.37
6000 to 10,000 Ohms	.69	.60	.49	.42
11,000 to 20,000 Ohms	.77	.67	.55	.47
22,500 to 40,000 Ohms	.81	.71	.58	.50
45,000 & 50,000 Ohms	.91	.79	.65	.56

20-WATT "BROWN DEVILS". Available in above values from .5 Ohm to 100,000 Ohms except values marked †. Specify Stk. No. 15B1010 and value.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
.5 Ohms	.93	.81	.67	.57
1 to 1000 Ohms	.67	.58	.48	.41
1200 to 5000 Ohms	.69	.60	.49	.42
6000 to 10,000 Ohms	.81	.71	.58	.50
12,500 to 20,000 Ohms	.83	.72	.60	.51
25,000 to 40,000 Ohms	.97	.84	.69	.59
45,000 to 60,000 Ohms	1.13	.98	.81	.69
65,000 to 80,000 Ohms	1.34	1.16	.96	.82
85,000 to 100,000 Ohms	1.54	1.33	1.10	.94

## OHMITE DIVIDOHMS

Vitreous enameled over resistance wound on ceramic core. Dividohm supplied with one slider and two mounting brackets. Tolerance ±10%. Specify Stock No. and Resistance on all orders.



### 10, 25 AND 50-WATT VALUES

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	20†	300	1250	4500	10,000
2	25	350†	1500	5000	12,000
3	50	400	2000	6000	15,000
4†	75	500	2250	7000	20,000
5	100	600†	2500	7500	25,000
7.5†	150	750	3000	8000	30,000
10	200	800	3500	8500†	40,000
15†	250	1000	4000	9000	50,000

10-WATT ADJUSTABLE DIVIDOHM. Size 1 3/4x3/8". Wt. 2 oz. Available in above values from 1 Ohm to 10,000 Ohms except values marked †. Specify Stk. No. 15B1011 and Value when ordering.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
1 to 1000 Ohms	1.12	.97	.80	.68
1250 to 5000 Ohms	1.16	1.00	.83	.71
6000 to 10,000 Ohms	1.25	1.08	.89	.76

25-WATT ADJUSTABLE DIVIDOHM. Size 2x1 1/8". Wt. 2 oz. Available in above values from 1 Ohm to 25,000 Ohms, except values marked †. Specify Stock No. 15B1501 and Value when ordering.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
1 to 1000 Ohms	1.28	1.10	.90	.77
1250 to 5000 Ohms	1.29	1.12	.92	.79
6000 to 10,000 Ohms	1.39	1.21	.99	.85
12,000 to 20,000 Ohms	1.44	1.25	1.03	.88
25,000 Ohms	1.58	1.37	1.13	.97

50-WATT ADJUSTABLE DIVIDOHM. Size 4x3/8". Wt. 4 oz. Available in above values from 1 ohm to 100,000 Ohm except values marked †. Specify Stock No. 15B1506 and Value when ordering.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
1 Ohm	2.08	1.80	1.48	1.27
2 to 1000 Ohms	1.65	1.43	1.18	1.01
1250 to 5000 Ohms	1.68	1.45	1.20	1.03
6000 to 10,000 Ohms	1.76	1.53	1.26	1.08
12,000 to 20,000 Ohms	1.88	1.63	1.34	1.15
25,000 to 40,000 Ohms	2.07	1.79	1.48	1.27
50,000 to 60,000 Ohms	2.24	1.95	1.60	1.37
80,000 Ohms	2.49	2.18	1.78	1.52
100,000 Ohms	2.65	2.30	1.89	1.62

### 100 AND 200-WATT VALUES

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	5	100	1500	15,000	40,000
2	10	250	2500	20,000	50,000
3	25	500	5000	25,000	75,000
4	50	1000	10,000	30,000	100,000

100-WATT ADJUSTABLE DIVIDOHM. Size 6 1/2" x 3/4". Wt. 8 oz. Available in above values. Specify Stock No. 15B1508 and Value when ordering.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
1 to 3 Ohms	2.68	2.32	1.91	1.64
4 to 1000 Ohms	2.07	1.79	1.48	1.27
1500 to 5000 Ohms	2.13	1.84	1.52	1.30
10,000 Ohms	2.25	1.96	1.61	1.38
15,000 to 20,000 Ohms	2.39	2.07	1.71	1.48
25,000 to 40,000 Ohms	2.65	2.30	1.89	1.62
50,000 Ohms	2.72	2.36	1.95	1.67
75,000 Ohms	2.96	2.57	2.11	1.81
100,000 Ohms	3.25	2.82	2.32	1.99

200-WATT ADJUSTABLE DIVIDOHM. Size 10 1/2" x 1 1/8". Wt. 1 lb. Available in above values. Specify Stock No. 15B1512 and Value when ordering.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
1 to 5 Ohms	4.23	3.67	3.02	2.59
10 to 1000 Ohms	3.27	2.84	2.34	2.00
1500 to 5000 Ohms	3.34	2.90	2.39	2.06
10,000 Ohms	3.52	3.05	2.51	2.15
15,000 to 20,000 Ohms	3.69	3.20	2.64	2.26
25,000 to 40,000 Ohms	3.78	3.28	2.70	2.32
50,000 Ohms	3.88	3.37	2.77	2.38
75,000 Ohms	4.06	3.52	2.90	2.48
100,000 Ohms	4.25	3.69	3.04	2.60

### ADJUSTABLE BANDS FOR DIVIDOHMS

Screwdriver type adjustables lugs for above power resistors. Has silver contact button.

Stk. No.	For	1-9 Ea.	10-24 Ea.	25-99 Ea.
15A1012	10 Watt Size	.14	.12	.10
15A1014	25 & 50 Watt Size	.14	.12	.10
15A1015	100 Watt Size	.14	.12	.10
15A1528	200 Watt Size	.23	.20	.16

## OHMITE LITTLE DEVIL RESISTOR ASSORTMENT

Molded plastic cabinet with all selected resistors for serviceman and builder. 40 values from 10 ohm to 10 Megohm. Cabinet has five drawers with eight compartments each for quick and easy visual check on stock. Size 9" long, 4 3/4" high and 5 1/4" deep. Cabinets are grooved for stacking. You pay only for resistors. Shpg. wt. 5 lbs.

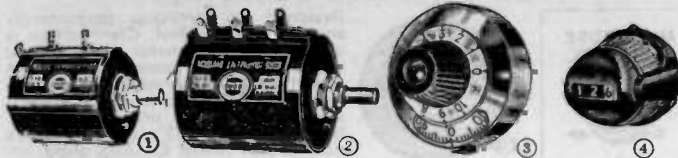
No. 33B137. CAB-10 Assmt. **\$17.64**  
150 1/2-Watt. EACH. .... **\$22.05**  
No. 33B138. CAB-2 Assmt. .... **\$22.05**  
125 1-Watt. EACH. .... **\$29.40**  
No. 33B136. CAB-3 Assmt. .... **\$29.40**  
125 2-Watt. EACH. ....





# IRC Resistors, Micropots and Regulators

## AMPHENOL-BORG "MICROPOTS", DIALS



① Model 205 "Micropot". Precision made ten turn linear potentiometer used in military and industrial installations where micrometer type accuracy is desired. Resistance is directly proportional to shaft rotation with 0.1% linearity. Velvet smooth action with low uniform torque. Built-in anti-backlash mechanism. Electrical and mechanical rotation 3600 degrees. Power dissipation 5 watts at 40 degrees C. Control size 2 1/8 x 1 3/4" dia. Shaft 7/8" long. Average shpg. wt. 1 1/2 lbs. Available in values listed below.

100 Ohms 1000 Ohms 10,000 Ohms 50,000 Ohms  
500 Ohms 5000 Ohms 20,000 Ohms 100,000 Ohms

Net 43A137. Model 205 Micropot **\$16.86** 10 Ea. **\$15.81**

② Model 1111B "Micropot". High quality precision ten-turn potentiometer. Similar to Model 205 above but made chiefly for commercial applications. Same smooth action and low torque as above, with linearity of 0.5%. Power dissipation 3 watt at 40 degrees C. Control size: 2 1/8 x 1 1/4" dia. Shaft 7/8" long. Average shpg. wt. 1 1/2 lbs. Available in values listed above.

Net 43A138. Model 1111B Micropot **\$10.68** 10 Ea. **\$9.35**

NOTE: Please Specify Stock Number and Value When Ordering.

③ Ten-Turn "Microdial". For above Micropots. Precision dial with Indexed accuracy of one part in 1000. Accurately counts the number of turns to within 1/100th of one turn. Built-in fingertip brake allows locking in any position. For panels up to 1/4" thick. Dia. 1 3/4", depth 1 1/4", Shpg. wt. 4 ozs.

43A139. Model 1320—Bright Chrome Cover & Dial. Choice. **\$5.82**  
43A140. Model 1327—Dull Black Cover & Dial. Net Each.

④ Model 1307. Direct Reading Microdial. For above Micropots. Three-digit reading insures accurate indexing at all points. Rotation continuous in either direction. Built-in fingertip brake. Readings from 0 to 999. Size 1 3/8 x 2" dia. Shpg. wt. 4 ozs.

Net 43A141. Model 1307 Microdial. Net Each. **\$15.54**

## CLAROSTAT "Fixtohm" PRECISION RESISTORS

Deposited carbon precision resistors with tolerance of plus or minus 1%, manufactured to MIL-R-10509 military specifications. Fixtohm resistors consist of a ceramic insulator core, upon which is deposited a pure crystalline carbon film. Terminal ends are baked-on silver with brass covering. Entire unit has several layers of baked on moisture-resistant varnish. This patented process assures extremely high stability, very low temperature coefficient, and uniformly accurate resistance. Type CVF is equivalent to Military type RN15 and RN20. Size 3/8" long, 3/8" dia., 1 1/2" axial leads. Type CVC is equivalent to Military type RN25. Size 1/2" long, 1/2" dia., 1 1/2" axial leads.

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
51	330	1800	10,000	56,000	.39 Meg
56	390	2200	12,000	68,000	.47 Meg
68	470	2700	15,000	82,000	.51 Meg
82	510	3300	18,000	.1 Meg	.56 Meg
100	560	3900	22,000	.12 Meg	.68 Meg
120	680	4700	27,000	.15 Meg	.82 Meg
150	820	5100	33,000	.18 Meg	1.0 Meg
180	1000	5600	39,000	.22 Meg	1.2 Meg
220	1200	6800	47,000	.27 Meg	1.5 Meg
270	1500	8200	51,000	.33 Meg	1.8 Meg

Please Specify Stock Number and Value When Ordering.

TYPE CVF 1/2 WATT 1% TOLERANCE  
No. 44A98. Working voltage 350 volts. 1-24, Each. **60c** 25-99, Each. **32c**

TYPE CVC 1-WATT 1% TOLERANCE  
No. 44A99. Working voltage 500 volts. 1-24, Each. **90c** 25-99, Each. **48c**

## CLAROSTAT VOLTAGE REGULATOR

Prevents line surges from damaging TV set. Will reduce 140 V. to approx. 110 V. Plugs Into AC outlet ahead of power cord. Shpg. wt. 1 lb.  
No. 14B735. Type TVA. For TV sets or other loads of 200 to 300 watts. Size 1 3/4" dia., 1 3/4" long. **\$2.06**

NET EACH. No. 14B736. Type TVB. For 300 to 375 watt loads. Size 1 1/2" dia., 3/4" long. NET EACH. **\$2.35**

## AMPERITE REGULATOR TUBES

For automatic regulation of current and voltage. Listed are popular types used in many industrial applications of electronic equipment. All regulator types not listed are available on special order.

20B753	3-4	20B761	4H4C	20B777	3-14
20B756	3-16	20B762	6-4	20B766	10-4C

YOUR CHOICE, EACH. **\$1.76**

## RESISTOR CORDS

Sturdy 6 ft. Cords with trim bakelite plug. Specify resistance 135, 160, 180, 200, 250, 310, 330, 350, 360, 560 ohms. No. 15A906. Shpg. wt. 8 oz. Any Value, Ea. **74c**

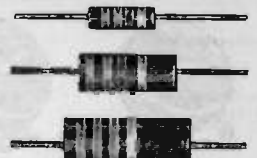
## JFD ADJUSTABLE BALLAST TUBES

Stock No.	Type	Replaces Ballast Tubes Beginning With Letter	No. From	Ending With Letter
15A2009.	"A"	K, L, M, BK, BL, or BM	6 to 42	A to H
15A2010.	"B"	K, L, M, BK, BL, or BM	45 to 105	A to H, S1, S2, S3

YOUR CHOICE. Shpg. wt. 6 oz. **\$2.94**

## IRC CARBON INSULATED RESISTORS

5% and 10%, 1/2, 1, 2-Watt Sizes  
B-A's Industrial Department offers low manufacturers' net prices in quantities listed below to industrial, design engineering, laboratory, manufacturing, and other accounts who have need for top quality, color-coded, insulated resistors. Conform 100% to RETMA code, JAN and MIL-R-11 specifications in both 1/2 and 1 watt types, and in 2 watt sizes from 100 ohm to 1 meg. Every value listed is in Kansas City stock for immediate delivery in quantity. Sizes: 1/2-watt 3/8x1/2"; 1-watt 1/2x3/8"; 2-watt 1/2x1/2". Net prices quoted apply to a single value only, except orders for 100 or more total may be assorted in no less than 50 of a single value. All values listed in table below are in stock in 5% tolerance. 10% tolerance values available only in values listed in bold face.



Ohms	Ohms	Ohms	Ohms	Ohms	Meg-ohms	Meg-ohms	Meg-ohms
10	68	470	3300	22,000	0.15	1.00	6.8
11	75	510	3600	24,000	0.16	1.1	7.5
12	82	560	3900	27,000	0.18	1.2	8.2
13	91	620	4300	30,000	0.20	1.3	9.1
15	100	680	4700	33,000	0.22	1.5	10.0
16	110	750	5100	36,000	0.24	1.6	11.0
18	120	820	5600	39,000	0.27	1.8	12.0
20	130	910	6200	43,000	0.30	2.0	13.0
22	150	1000	6800	47,000	0.33	2.2	15.0
24	160	1100	7500	51,000	0.36	2.4	16.0
27	180	1200	8200	56,000	0.39	2.7	18.0
30	200	1300	9100	62,000	0.43	3.0	20.0
33	220	1500	10,000	68,000	0.47	3.3	22.0
36	240	1600	11,000	75,000	0.51	3.6	
39	270	1800	12,000	82,000	0.56	3.9	
43	300	2000	13,000	91,000	0.62	4.3	
47	330	2200	15,000	0.1 Meg.	0.68	4.7	
51	360	2400	16,000	0.11 Meg.	0.75	5.1	
56	390	2700	18,000	0.12 Meg.	0.82	5.6	
62	430	3000	20,000	0.13 Meg.	0.91	6.2	

Stock No.	Type & Wattage	Tol.	1-9 Each	10-99 Each	100-249 Each	250-499 Each	500-999 Each	1000 Each
15B1000	GBT-1/2	5%	.24	.19	.129	.086	.073	.065
15B1024	GBT-1/2	10%	.12	.09	.065	.043	.032	.028
15B1001	GBT-1	5%	.36	.28	.194	.145	.125	.112
15B1025	GBT-1	10%	.18	.11	.097	.065	.058	.052
15A1007	SR-2	5%	.48	.37	.259	.216	.204	.193
15A1008	SR-2	10%	.24	.19	.129	.108	.102	.091

IMPORTANT: Specify Stk. No., Value, Wattage and Tolerance when ordering.

## METAL FILM PRECISION RESISTORS



ACCURACY ±1%

Ohms	Ohms	Ohms	Ohms
1	400	20000	.3 Meg
5	500	25000	.5 Meg
7.5	750	30000	.75 Meg
10	1000	40000	1.0 Meg
15	1500	50000	1.5 Meg
20	2000	60000	2.0 Meg
25	2500	75000	2.5 Meg
50	3000	90000	3.0 Meg
75	5000	.1 Meg	5.0 Meg
100	7500	.15 Meg	
200	10000	.20 Meg	
300	15000	.25 Meg	

Plus or minus 1% precision resistors. NR20-1/2 Watt, NR25-1 Watt. Negligible noise characteristics. Resistance element is a Metal Film, containing no carbon, deposited on surface of low-loss ceramic tube and hermetically sealed with a uniform vitreous enamel coating capable of withstanding temp. to 400° F. 1 1/2" tinned copper leads.

15A110. 1 Watt NR25. Size 7/8x1 1/2". 1 Ohm-1 Meg. Each. **59c**  
1.5 Meg-5 Meg. Each. **74c**  
No. 15A130. 1/2 Watt NR20. 5/8x1 1/2". 1 Ohm-1 Meg. Each. **50c**  
1.5 Meg-3 Meg. Each. **59c**

## WORKMAN GLO-BAR RESISTORS

Used in TV sets having string series filament circuits as produced by GE, Motorola, Sears, Hoffman, Teletone and others. Resistance decreases with rise in temperature.

Stock No.	Resistance Value	Hot @ MA Load	Replaces GE No.	Net Each
17C416	250 Ohms	20 Ohms, 600 MA	RRW051	\$0.88
17C417	250 Ohms	75 Ohms, 300 MA	RRW041	1.30
17C418	250 Ohms	31 Ohms, 300 MA	RRW097	1.12
17C442	460 Ohms	35 Ohms, 600 MA	RRW054	1.12

9 OHM GLO-BAR FOR RCA SETS  
Same as RCA part #100118. 9 ohms hot, 600 MA.  
No. 17B432. List \$1.65. Net Each. **97c** 10 Lots, Each. **88c**

UNIVERSAL GLO-BAR RESISTOR  
Resistance varies from 100 ohms hot at 200 MA to 20 ohms hot at 700 MA depending on current drain. Will replace almost any Glo-Bar below 100 ohms. Handles up to 2 amp. Mfg. list \$1.60. **99c** 10 Lots, **88c**

SERVICEMAN'S GLO-BAR KIT  
Contains 2 thermistors selected for use singly or in series or parallel combination. Will cover the most needed replacements for GE, Motorola, Sears, Crosley, Hoffman, Teletone and others  
No. 17C443. Shpg. wt. 8 oz. Mfg. list \$3.00. Net Each. **\$1.76**

## WORKMAN FUSED RESISTORS

Often needed replacement in series wired TV sets by Motorola, Crosley, Hoffman, Raytheon, Sylvania, Zenith, RCA, Admiral, Hallicrafters, Sonora and others.

Stk. No.	Resistance	Net Each	10 Lots, Ea.
17B425	4.7 ohms, 5 watts	17c	15c
17A447	5 ohms, 5 watts	17c	15c
17B429	5.6 ohms, 5 watts	17c	15c
17A448	6 ohms, 5 watts	17c	15c
17C444	7.5 ohms, 3 amps	17c	15c
17B431	9 ohms, 5 watts	17c	15c
17A449	10 ohms, 5 watts	17c	15c
17B428	22 ohms, 5 watts	17c	15c

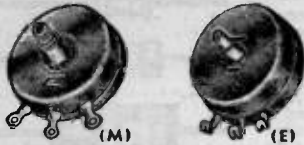


Large Users Please Contact B-A for Quantity Prices on Any Above Items



# Replacement Controls & Power Rheostats

## MALLORY 4-WATT WIRE WOUND CONTROLS



TYPE "M" RHEOSTATS  
4-WATT, 1 3/8" DIAMETER

Stock No.	Mallory Type	Ohms Res.	Cap.
14A122	M2RK	2	1.40 Amps.
14A124	M4RK	4	1.00 Amps.
14A126	M10RK	10	.63 Amps.
14A128	M20RK	20	.45 Amps.
14A130	M30RK	30	.37 Amps.
14A132	M50RK	50	.28 Amps.
14A135	M100RK	100	.20 Amps.

Any of the above Type "M" Rheostats. Net Each. **91c**

### TYPE "M" POTENTIOMETERS

Stock No.	Mallory Type	Ohms Res.	M.A. Cap.
14B267	M6PK	6	820 M.A.
14B268	M10PK	10	630 M.A.
14A136	M15PK	15	520 M.A.
14A137	M20PK	20	450 M.A.
14A138	M25PK	25	400 M.A.
14A139	M30PK	30	370 M.A.
14A141	M50PK	50	280 M.A.
14A144	M100PK	100	200 M.A.
14A145	M200PK	200	140 M.A.
14A146	M400PK	400	100 M.A.
14A147	M500PK	500	90 M.A.
14B269	M600PK	600	82 M.A.

Any of the above Type "M" Potentiometers. Net Each. **\$1.32**

Type "M" Control Shafts. Can be extended by addition of DS-36 3" shaft which taps in. No. 14B367. Each. **33c**

### TYPE "M" POTENTIOMETERS

Stock No.	Mallory Type	Ohms Res.	M.A. Cap.
14A149	M1MPK	1,000	63 M.A.
14A150	M2MPK	2,000	45 M.A.
14A151	M3MPK	3,000	37 M.A.
14A152	M4MPK	4,000	32 M.A.
14A153	M5MPK	5,000	28 M.A.
14A154	M10MPK	10,000	20 M.A.

Any of the above Type "M" Potentiometers. NET Each. **\$1.32**

Stock No.	Mallory Type	Ohms Res.	M.A. Cap.
14A155	M15MPK	15,000	16 M.A.
14A156	M20MPK	20,000	14 M.A.
14A157	M25MPK	25,000	13 M.A.

Any of the above Type "M" Potentiometers. NET EACH. **\$1.44**

Stock No.	Mallory Type	Ohms Res.	M.A. Cap.
14A158	M50MPK	50,000	9 M.A.
14A159	M70MPK	70,000	7.5 M.A.

The above Type "M" Potentiometers. NET EACH. **\$1.71**

### HEAVY DUTY TYPE "E"

#### 7-WATT

2 1/2" diameter. Slotted shaft.

Stock No.	Mallory Type	Res. Ohms	Net Each
14B226	E5MP	5K	<b>\$2.70</b>
14B227	E10MP	10K	<b>2.88</b>
14B228	E20MP	20K	<b>2.94</b>
14B229	E25MP	25K	<b>3.03</b>
14B230	E50MP	50K	<b>3.09</b>
14B231	E75MP	75K	<b>3.18</b>
14B232	E100MP	100K	<b>3.23</b>
14B233	E125MP	125K	<b>3.23</b>
14B234	E150MP	150K	<b>3.29</b>

Any of the above Type "E" Potentiometers. NET EACH. **33c**

## MALLORY 2-WATT WIRE WOUND POTENTIOMETERS



Has knurled shaft with screwdriver slot. Suited for television replacement of focus, hold and positioning controls or any circuit requiring a 2-watt unit. All are linear taper. Dia. 1 1/8".

Stock No.	Mallory Type	Ohms Res.	Net Each
14B235	R25L	25	<b>\$0.91</b>
14B236	R50L	50	<b>.91</b>
14B237	R250L	250	<b>.91</b>
14B238	R1000L	1000	<b>.91</b>
14B239	R1500L	1500	<b>.91</b>
14B240	R2500L	2500	<b>.91</b>
14B241	R5000L	5000	<b>.91</b>

### THEATRE SPEAKER CONTROLS

Designed for use with Motiograph, Simplex, International and other outdoor theatre motion picture equipment. Quality constructed with pig-tail rotor connections. Corrosion resistant finish assures long, noise free life. 1 1/2" dia. metal case. Mechanical rotation 280° ± 3°, electrical rotation 255° ± 5°.

Stock No.	Fact. No.	Description	Net Ea.
15A598	TSA-10	4 Ohm L-Pad	<b>\$1.44</b>
15A599	TSA-35	35 Ohm Potentiometer	<b>1.06</b>
15A600	TSA-6	6 Ohm Potentiometer	<b>1.06</b>

### MALLORY CONTROLS WITH PUSH-PULL SWITCH



Push-in to turn on . . . pull-out to turn off . . . leave volume control always set at the same desired listening level. Adds amazing new operating convenience to Hi-Fi amplifier, radio or TV set. Carbon element type control is complete with push-pull SPST switch rated 3 amps at 125 volts AC. New "floating ring" contact action assures exceptionally long life, freedom from sticking and protection against overload. Comes complete with all necessary mounting hardware. Available in the following values:

Stock No.	Type	Resistance	Taper	Stock No.	Type	Resistance	Taper
14B843	PP15A	100K Ohms	Lin.	14B846	PP55L	500K Ohms	Log.
14B844	PP254A	250K Ohms	Lin.	14B847	PP16A	1 Megohm	Lin.
14B845	PP55A	500K Ohms	Lin.	14B848	PP16L	1 Megohm	Log.

Your Choice, Net Each, Control with Switch. **\$1.32**

## MALLORY 15-WATT T AND L PAD ATTENUATORS

Stock No.	Type	Resistance	Net Ea.
15B558	L-2	2	<b>\$2.68</b>
15B565	L-4	4	<b>2.68</b>
15A584	L-6	6	<b>2.68</b>
15A585	L-8	8	<b>2.68</b>
15A586	L-15	15	<b>2.68</b>
15B571	L-50	50	<b>2.68</b>
15B572	L-100	100	<b>2.68</b>
15B573	L-200	200	<b>2.68</b>
15B574	L-250	250	<b>2.68</b>
15A587	L-500	500	<b>2.68</b>
15B575	L-600	600	<b>2.68</b>
15B576	L-1000	1000	<b>2.68</b>
15A596	L-2000	2000	<b>2.68</b>
15B577	L-3000	3000	<b>2.68</b>
15B578	L-4000	4000	<b>2.68</b>
15B579	T-2	2	<b>3.03</b>
15B580	T-4	4	<b>3.03</b>
15A588	T-6	6	<b>3.03</b>
15A589	T-8	8	<b>3.03</b>



Stock No.	Type	Resistance	Net Ea.
15A590	T-15	15	<b>\$3.03</b>
15B581	T-50	50	<b>3.03</b>
15B582	T-100	100	<b>3.03</b>
15B583	T-200	200	<b>3.03</b>
15B592	T-250	250	<b>3.03</b>
15A591	T-500	500	<b>3.03</b>
15B593	T-600	600	<b>3.03</b>
15B594	T-1000	1000	<b>3.03</b>
15A597	T-2000	2000	<b>3.03</b>
15B595	T-3000	3000	<b>3.03</b>

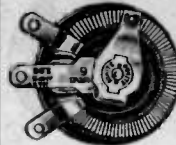
## OHMITE POWER RHEOSTATS



MODEL "E" 12 1/2 WATT MINIATURE RHEOSTATS

Dia. 7/8". Depth 1 1/8". Shaft 1/8".

Stk. No.	Ohms	1-4 Each	5-9 Each	10-24 Each
14B808	1	\$4.54	\$3.94	\$3.10
14B809	10	4.54	3.94	3.10
14B810	15	4.03	3.49	2.75
14B811	25	4.03	3.49	2.75
14B812	50	4.03	3.49	2.75
14B813	100	4.03	3.49	2.75
14B814	250	4.03	3.49	2.75
14B815	500	4.03	3.49	2.75
14B816	1000	4.54	3.94	3.10
14B817	2500	4.54	3.94	3.10
14B818	5000	4.80	4.17	3.28



Designed to produce permanently smooth, close control. Construction is all ceramic and metal with pivoted universal-action-mounted contact brush of copper-graphite or silver-graphite on the heavier current rheostats. Mounting for panels up to 1/4" by means of 3/8"-32 bushing and hex nut (except Model E). Avg. shpg. wt. 1/2 lb. Less knob.

### MODEL "H", 25-WATT

Dia. 1 1/8". Depth 1 3/8". Shaft 1/4".

Stk. No.	Ohms	1-4 Each	5-9 Each	10-24 Each
14A700	1	\$4.54	\$3.94	\$3.10
14A701	3	4.54	3.94	3.10
14B772	6	4.54	3.94	3.10
14B773	10	4.54	3.94	3.10
14B774	25	4.03	3.49	2.75
14B775	50	4.03	3.49	2.75
14B776	100	4.03	3.49	2.75
14B777	250	4.03	3.49	2.75
14B778	500	4.03	3.49	2.75
14B779	1000	4.54	3.94	3.10
14B780	2500	4.54	3.94	3.10
14B781	5000	4.80	4.17	3.28

### MODEL "J", 50-WATT

Dia. 2 1/8". Depth 1 3/8". Shaft 1/4".

Stk. No.	Ohms	1-4 Each	5-9 Each	10-24 Each
14A702	1	\$5.05	\$4.38	\$3.45
14A703	4	5.05	4.38	3.45
14A711	16	4.54	3.94	3.10
14A704	35	4.54	3.94	3.10
14A712	50	4.54	3.94	3.10
14A705	80	4.54	3.94	3.10
14A706	150	4.54	3.94	3.10
14A707	300	4.54	3.94	3.10
14B782	500	4.54	3.94	3.10
14B784	1000	4.80	4.17	3.28
14B785	2500	4.80	4.17	3.28
14B786	5000	5.05	4.38	3.45
14B787	10000	5.05	4.38	3.45

### MODEL "L", 150 WATT

Dia. 4". Depth 2". Shaft 1/4".

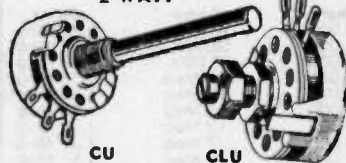
Stk. No.	Ohms	1-4 Each	5-9 Each	10-24 Each
14B788	1	\$9.58	\$8.31	\$6.55
14B789	5	9.58	8.31	6.55
14B790	10	9.58	8.31	6.55
14B791	15	9.58	8.31	6.55
14B792	25	9.07	7.87	6.20
14B793	50	9.07	7.87	6.20
14B794	100	9.07	7.87	6.20
14B796	150	9.07	7.87	6.20
14B797	250	9.07	7.87	6.20
14B798	500	9.07	7.87	6.20
14B799	1800	10.09	8.76	6.90
14B800	3000	10.09	8.76	6.90
14B807	10000	12.10	10.50	8.27

### KNOB AND DIAL PLATES FOR ABOVE RHEOSTATS

Stk. No.	Type	Description	Far Rheostat Model	1-4 Ea.	5-9 Ea.	10-24 Ea.
14A849	5151	3/4" Knob	Model E	29c	25c	19c
14A850	5150	1 1/2" Knob	Models H, J, L	29c	25c	19c
14A872	5007	1 1/4" Plate Marked 0-100	Model E	29c	25c	19c
14A873	5000	2 1/8" Plate Marked 0-100	Models H, J, L	29c	25c	19c

### OHMITE TYPE AB POTENTIOMETER

#### 2-WATT



High quality unit designed for use where 100% dependability is essential. Very low noise level and low voltage coefficient. Will pass A.N. 200 hour salt spray test, spec. AN-QQ-5-91, 1 3/8" dia. Extends 5/8" behind panel. CU shaft length 2". CLU screwdriver slot, both have 3/8" bushing. All are plus or minus 10% except items \* are 20%.

#### LINEAR TAPER, TYPE CU

Stk. No.	Resistance	Ohmite No.
14A866	50 Ohms	CU 5001
14A865	100 Ohms	CU 1011
14A864	250 Ohms	CU 2511
14A863	500 Ohms	CU 5011
14A862	1,000 Ohms	CU 1021
14A861	2,500 Ohms	CU 2521
14A860	5,000 Ohms	CU 5021
14A859	10,000 Ohms	CU 1031
14A858	25,000 Ohms	CU 2531
14A857	50,000 Ohms	CU 5031
14A856	.10 Meg.	CU 1041
14A855	.25 Meg.	CU 2541
14A854	.5 Meg.	CU 5041
14A853	1.0 Meg.*	CU 1052
14A852	2.5 Meg.*	



# IRC and Centralab Controls

## IRC REPLACEMENT CONTROLS

### IRC "Q" CONTROLS LESS SWITCH



Standard Radio and TV replacement controls. Small size, 1/8" diameter with universal 3" shaft. Will meet most every replacement requirement with no additional special parts needed. Use type 76 attachable switches. Lock-in shafts for special applications are listed below. Wt. 4 oz.

Stk. No.	IRC Type	Ohms Res.	Taper
14C377	Q11-201	250	A
14B416	Q11-103	500	A
14C378	Q11-105	750	A
14B417	Q11-108	1000	A
14C379	Q11-109	1500	A
14C380	Q11-110	2000	A
14C381	Q13-111	2500	C
14B419	Q11-112	3K	A
14B421	Q11-114	5K	A
14C382	Q11-115	7500	A
14B425	Q11-116	10K	A
14B426	Q13-116	10K	C
14B427	Q14-116	10K	D
14A399	Q11-119	20K	A
14B432	Q11-120	25K	A
14A398	Q11-121	30K	A
14B435	Q11-123	50K	A
14B436	Q13-123	50K	C
14C383	Q11-125	75K	A
14B440	Q11-128	100K	A
14B441	Q13-128	100K	C
14C384	Q13-328	150K	C
14B444	Q11-130	250K	A
14B445	Q13-130	250K	C
14B451	Q11-133	500K	A
14B452	Q13-133	500K	C
14B454	Q14-133	500K	D
14B456	Q11-137	1 Meg.	A
14B457	Q13-137	1 Meg.	C
14A395	Q11-139	2 Meg.	A
14B463	Q13-139	2 Meg.	C
14A394	Q11-239	2.5 Meg.	A
14A393	Q11-140	3 Meg.	A
14B469	Q13-140	3 Meg.	C
14B470	Q11-141	5 Meg.	A
14C390	Q11-142	7.5 Meg.	A
14B471	Q11-143	10 Meg.	A

**YOUR CHOICE NET EACH \$1.00**

### EXPLANATION OF IRC CONTROL TAPERS

"A" Linear. "C" Logarithmic for audio and antenna shaft. "M" Tapped logarithmic. "D" Taper ends for bias or antenna control. "SP" Special application.

### Type Q Fixed Shafts

PQ. Universal full round. Far 1/2" or 3/8" bushing. 3/8" bushing included. No. 14A376. Each. **56c**  
 RQ. Short screwdriver slot. 1/2" long, 1/4" dia. for 3/8" bushing. No. 14A375. Each. **56c**  
 SQ. Knurled and screwdriver slot. 1/4" diameter, 3/4" long. No. 14A374. Each. **41c**

## CENTRALAB REPLACEMENT CONTROLS

WITH NEW UNIVERSAL SHAFT



First line controls of highest quality with noise free velvet smooth action. Only 4 numbers needed for 90% of all radio and television replacement needs. Switches are Universal for use as SPST, DPST and three wire. Diameter 1/8". Stock up at these low prices and save.

① 3" Grooved Shaft—Less Switch				② 3" Grooved Shaft—With Switch			
No.	Type	Ohm	Each 10, Ea.	No.	Type	Ohm	Each 10, Ea.
14B242	B60	500 K	<b>91c 84c</b>	14B244	B60-S	500 K	<b>\$1.32 \$1.22</b>
14B243	B70	1 Meg	<b>91c 84c</b>	14B245	B70-S	1 Meg	<b>1.32 1.22</b>

## SK-2 SHAFT-KUT TOOL

The perfect answer to the serviceman's biggest headache, control shaft cutting that is accurate, quick and easy. With this precision tool, any standard solid or hollow shaft can be measured and cut accurately to 1/16" of an inch. Ideal for custom cutting of concentric controls or any switch with a standard shaft. Made of case-hardened tool steel, complete with mtg. hardware and full instructions. Shpg. wt. 3 lbs. No. 14A346. SK-2. Net Each. **\$4.85**



## ① IRC MULTISECTIONS



Factory assembled Multisections designed to attach to the standard control, like a switch, making it a dual type for use with standard controls at left. Type 76 switches may then be added where required. Wt. 2 oz.

Stock No.	IRC Type	Res. Ohms	Taper
14B299	M11-103	500	A
14B181	M11-108	1 K	A
14B305	M11-110	2 K	A
14B306	M11-112	3 K	A
14B182	M11-114	5 K	A
14B183	M11-116	10 K	A
14B200	M11-120	25 K	A
14B201	M11-123	50 K	A
14B202	M11-128	.1 Meg	A
14B203	M13-128	.1 Meg	C
14B204	M11-130	.25 Meg	A
14B206	M11-133	.5 Meg	A
14B207	M13-133	.5 Meg	C
14B208	M11-137	1.0 Meg	A
14B209	M13-137	1.0 Meg	C
14B307	M13-138	1.5 Meg	C
14B210	M11-139	2.0 Meg	A
14B319	M13-139	2.0 Meg	C
14B212	M11-141	5.0 Meg	A
14B213	M11-143	10.0 Meg	A

**CHOICE EACH \$1.32**

## ② SNAP-ON SWITCHES

Type 76-1 S.P.S.T. Switch No. 14B506. EACH **59c**  
 Type 76-2 D.P.S.T. Switch. No. 14B507. EACH **59c**

## TAPPED "Q" CONTROLS

Stock No.	IRC Type	Ohms Res.	Tap per
14B446	Q13-130X	250K	125K Sp.
14B450	Q18-132X	350K	75K H
14B453	Q13-133X	500K	125K H
14A389	Q19-133X	500K	250K Sp.
14B458	Q13-137X	1 Meg	250K H
14A387	Q17-137XX	1 Meg	50K and 100K Sp.
14A386	Q18-137XX	1 Meg	250K and 500K Sp.
14B461	Q19-137X	1 Meg	500K Sp.
*14B462	QVC-539X	1 Meg	500K Sp.
14B464	Q13-139X	2 Meg	500K H
14A385	Q13-139XX	2 Meg	500K and 1 Meg Sp.
14B466	Q18-139X	2 Meg	1 Meg Sp.
14B467	Q18-139XX	2 Meg	250K and 500K Sp.

\*Fader Control.  
**YOUR CHOICE. (Less Switch). NET EACH \$1.41**

## CENTRALAB 5-WATT WIRE WOUND CONTROLS

Rated a full 5 watts, in a 2 watt size and at 2 watt price. Only 1 1/8" diameter x 3/8" deep. Has 3" long, full round 1/4" aluminum shaft. Bushing is standard 3/8" long, 3/8-32 thread. 295° rotation. Shpg. wt. 4 oz.



Res. Ohms	Mfg. No.	Res. Ohms	Mfg. No.	Res. Ohms	Mfg. No.	Res. Ohms	Mfg. No.
1	WW-010	25	WW-250	400	WW-401	7500	WW-752
2	WW-020	30	WW-300	500	WW-501	10K	WW-103
3	WW-030	40	WW-400	750	WW-751	15K	WW-153
4	WW-040	50	WW-500	1000	WW-102	20K	WW-203
5	WW-050	60	WW-600	1500	WW-152	25K	WW-253
6	WW-060	75	WW-750	2000	WW-202	30K	WW-303
8	WW-080	100	WW-101	2500	WW-252	40K	WW-403
10	WW-100	200	WW-201	3000	WW-302	50K	WW-503
15	WW-150	250	WW-251	4000	WW-402	75K	WW-753
20	WW-200	300	WW-301	5000	WW-502	100K	WW-104

When Ordering Specify Resistance Value and Stock No. 14B303.

Each 1-9	Each 10-24	Each 25-49	Each 50-99	Each 100-249
<b>\$1.12</b>	<b>\$1.03</b>	<b>\$0.95</b>	<b>\$0.91</b>	<b>\$0.86</b>
<b>1.47</b>	<b>1.35</b>	<b>1.25</b>	<b>1.19</b>	<b>1.13</b>
<b>1.76</b>	<b>1.62</b>	<b>1.50</b>	<b>1.43</b>	<b>1.36</b>
<b>2.41</b>	<b>2.22</b>	<b>2.05</b>	<b>1.95</b>	<b>1.86</b>

## CENTRALAB L-PADS AND BRIDGED T-PADS



Constant impedance attenuators designed to provide optimum sound reproduction. Rated conservatively at 20 watts audio, 5 watts DC, yet are smaller than 2-watt controls. Anti-backlash construction eliminates "play" between the dual sections, assuring smooth frequency response over entire resistance range. Size 1 1/8" dia., 1 1/8" deep fits easily in standard junction and outlet boxes. Has 3/8" threaded bushing with 1/4" round shaft, 1 7/8" long. Comes complete with gold anodized dial plate, black knob, and instructions. Shpg. wt. 6 oz.

① L-Pad Attenuators. Centralab Model WL. 4, 8, 16, 500, 600 ohm values. Stk. No. 1-9 Ea. 10-24 Ea. 25-49 Ea. 50-99 Ea. 100-249 Ea.  
 14A221 **\$2.94** **\$2.67** **\$2.48** **\$2.36** **\$2.23**

② Bridged T-Pod Attenuators. Centralab Model WDT. 4, 8, 16, 500, 600 ohm values. No. 14A222 **1-9 Ea. \$3.50** **10-24 Ea. \$3.21** **25-49 Ea. \$2.98** **50-99 Ea. \$2.83** **100-249 Ea. \$2.68**

③ Wall Outlet Plate for above controls. Made to fit standard outlet boxes. Center hole fits any 3/8" bushing. Size 4 1/2" L. x 2 3/4" wide. No. 14A218. Brushed Gold anodized finish. Model AK-34. Net Ea. **88c**  
 No. 14A220. Brushed Aluminum anodized finish. Model AK-35. Net Ea. **88c**  
 ④ Adapter Bushing for mounting above controls in thick panels or enclosures. Fits any control with standard 3/8" bushing and extends bushing 1". Available in brass or phenolic. No. 14A223. Type AK-31. Brass Adaptor. Net Each **44c**  
 No. 14A224. Type AK-37. Phenolic Adaptor. Net Each **44c**

## CENTRALAB HOT MOLDED POTENTIOMETERS

2 watt molded composition controls, designed to meet MIL-R-94 environmental and test requirements, offer exceptionally long life and noise-free operation. Totally enclosed and sealed against moisture and dirt. Features increased high voltage stability due to wide clearance between bushing and collector track. Rated at 2 watts at 70 degree C. Size 1 3/8" dia., 5/8" deep. All values are linear taper at 10% tolerance, except those marked\* which are 20%. Available in following values.

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
50	500	5,000	50,000	500,000	5 Meg.
100	1,000	10,000	100,000	*1 Meg.	*5 Meg.
250	2,500	25,000	250,000	*2.5 Meg.	

① Type ACS has standard 3/8" bushing with 1/4" stainless steel, slotted shaft 2 1/2" long.  
 ② Type AFS has 3/8" locking type bushing with stainless steel, slotted shaft 5/8" long.

Stk. No.	Type	1-9 Ea.	10-24 Ea.	25-49 Ea.	50-99 Ea.	100-249 Ea.
14A217	ACS	<b>\$1.73</b>	<b>\$1.63</b>	<b>\$1.47</b>	<b>\$1.40</b>	<b>\$1.30</b>
14A216	AFS	<b>1.99</b>	<b>1.88</b>	<b>1.70</b>	<b>1.62</b>	<b>1.50</b>

SENIOR COMPENTROLS. Designed for use in Hi-Fi amplifiers or pre-amplifiers. Dual shaft construction permits adjustment compensation at any level. Universal (replaces 1/4 Meg. to 1 Meg.) control supplied with knobs. Plain type only. (C2-200 same as C2-100 except shafts may be cut to lgths. before Assembly.) Shpg. wt. 6 oz.

Stk. No.	Fact. No.	Description	Net Each	5 Each
14B273	C2-100	Senior Compentral	<b>\$3.30</b>	<b>\$2.97</b>
14B297	C2-200	Senior Compentral	<b>3.30</b>	<b>2.97</b>
14B106	C3-300	Compensated tone control as used in Baxendall circuit	<b>3.30</b>	<b>2.97</b>

STEREO TWIN COMPENTROLS—Designed especially for stereo preamplifiers and stereo control centers, these twin compentrols provide synchronized compensation to channels in a stereo system. Complete with 3" shaft, mtg. hardware (less switch). Shpg. wt. 6 oz.

Stk. No.	Factory No.	Front Ohms	Rear Ohms	Net Each	5 Each
14A347	C2-60	500K	500K	<b>\$3.30</b>	<b>\$2.97</b>
14A348	C2-70	1 Meg.	1 Meg.	<b>3.30</b>	<b>2.97</b>



# Electrolytic Condensers



## TWIST-LOK ELECTROLYTIC CAPACITORS

MALLORY - AEROVOX - SPRAGUE

Hermetically sealed dry electrolytic capacitors. 85° C. Designed to withstand the severe requirements for television and radio replacement. Just a twist of the tab locks the

unit securely in place. Has bakelite washers for insulated mounting where necessary. Separate solder terminals for each section. Average wt. 8 oz.

Twist Locks may be assorted to obtain 10 lot price. B-A sells at lowest factory OEM prices up to 249 pieces—write for quotation.

\*Combination Printed Board or Universal Mount

### SINGLE SECTION TYPES

Cap. Mfd.	Volts DC	Size Inches	Stock No.	Price Each	10 to 24	Cap. Mfd.	Volts DC	Size Inches	Stock No.	Price Each	10 to 24
10	450	1 x2	15A270	\$ .93	\$ .83	125	200	1 x3	15A348	\$1.47	\$1.22
10	500	1 x2	15A689	.96	.87	125	300	1 1/2 x3	15A702	2.10	1.89
15	450	1 x2	15A271	1.26	1.13	125	350	1 3/4 x3	15A703	2.19	1.97
20	450	1 x2	15A272	1.08	.98	125	450	1 3/4 x4	15B411	2.37	2.13
20	500	1 x2 1/2	15A211	1.11	1.00	140	150	1 x3	15A737	1.26	1.13
30	150	1 x2	15A690	.93	.84	140	250	1 x3	15A350	1.74	1.57
30	350	1 x2	15A691	1.14	1.03	150	150	1 x3	15B414	1.29	1.18
30	450	1 x2 1/2	15A692	1.17	1.05	150	250	1 1/2 x2 1/2	15A704	1.88	1.67
30	500	1 x3	15A693	1.23	1.11	150	300	1 3/4 x3	15A754	2.10	1.89
50	150	1 x2	15A759	.99	.89	200	150	1 x3 1/2	15A738	1.47	1.32
40	450	1 x3	15A273	1.23	1.10	300	150	1 3/4 x3	15A739	1.68	1.51
40	475	1 1/2 x2	15B477	1.50	1.35	500	25	1 x2 1/2	15B603	1.53	1.38
60	150	1 x2	15B415	1.11	1.00	500	50	1 x3	15A751	1.57	1.43
60	450	1 1/2 x3	15B407	1.83	1.65	1000	15	1 x3	15B604	1.53	1.38
100	150	1 x2	15B602	1.20	1.08	1000	25	1 1/2 x2	15A735	2.13	1.92
120	150	1 1/2 x2	15A382	1.23	.98	1500	50	1 1/2 x4	15B669	2.64	2.38
100	250	1 x3	15A700	1.62	1.44	2000	15	1 1/2 x3	15B549	2.07	1.87
100	300	1 x3 1/2	15A701	1.74	1.57	3000	15	1 1/2 x3	15B550	2.55	2.29

### DUAL SECTION TYPES

Cap. Mfd.	Volts DC	Size Inches	Stock No.	Price Each	10 to 24	Cap. Mfd.	Volts DC	Size Inches	Stock No.	Price Each	10 to 24
10-10*	300	1 1/2 x2	15A417	\$1.05	\$ .95	40-50	450/50	1 x3	15A367	\$2.25	\$2.02
10-10	450	1 x2	15A274	1.14	1.02	50-30	150	1 x2	15B464	1.20	1.08
10-10	500	1 x2 1/2	15A398	1.17	1.07	50-30*	150	1 x2	15A404	1.20	1.08
15-15	450	1 x2 1/2	15A706	1.35	1.21	50-50	150	1 x2 1/2	15A279	1.29	1.16
15-15	350	1 x2	15B674	1.35	1.21	60-40	450	1 1/2 x3 1/2	15A752	2.37	2.13
15-15	475	1 x2 1/2	15B805	1.41	1.37	60-60	150	1 x3	15B758	1.41	1.27
20-20	150	1 x2	15A506	1.02	.92	80-10	450	1 1/2 x3	15B618	2.16	1.94
20-20	250	1 x2	15A707	1.14	1.03	80-20	350	1 1/2 x2 1/2	15B223	2.10	1.89
20-20	350	1 x2 1/2	15A708	1.71	1.54	80-20	450	1 1/2 x4	15A810	2.49	2.24
20-20	450	1 x3	15A275	1.53	1.38	80-40	150	1 x2 1/2	15A740	1.38	1.24
20-20	500	1 1/2 x2 1/2	15B208	1.71	1.54	80-40*	150	1 x2 1/2	15A409	1.38	1.24
30-30	150	1 x2	15A278	1.11	1.00	80-50	475	1 1/2 x4	15A812	3.12	2.81
30-30	350	1 x3	15B608	1.74	1.57	80-80	300	1 1/2 x3	15A709	2.43	2.19
30-30	450	1 1/2 x2	15B609	1.83	1.65	80-80	350	1 1/2 x3 1/2	15A808	2.82	2.54
40-10	475	1 1/2 x2 1/2	15A811	1.86	1.67	100-60	450	1 1/2 x4	15A354	3.51	3.18
40-20	150	1 x2	15B493	1.08	.96	100-100	350	1 1/2 x3 1/2	15B489	3.69	3.29
40-40	150	1 x2	15A507	1.14	1.00	125-60	300	1 1/2 x2 1/2	15A378	2.70	2.43
40-40	250	1 x3	15B611	1.50	1.31	125-100	150	1 1/2 x2 1/2	15B619	2.10	1.89
40-40	300	1 1/2 x2 1/2	15A756	1.77	1.69	150-150	250	1 1/2 x4	15B620	3.09	2.79
40-40	450	1 1/2 x3	15B494	2.07	1.87	200-150	150	1 1/2 x3	15A806	2.25	2.02
40-40	475	1 1/2 x3	15B408	2.58	2.32	200-200	150	1 1/2 x3	15A807	2.40	2.16
40-40	500	1 1/2 x3	15A813	2.64	2.38	200-200	250	1 1/2 x4 1/2	15B490	3.66	3.29
						1000-1000	15	1 x3 1/2	15A762	2.64	2.38

### THREE SECTION TYPES

Cap. Mfd.	Volts DC	Size Inches	Stock No.	Price Each	10 to 24	Cap. Mfd.	Volts DC	Size Inches	Stock No.	Price Each	10 to 24
10-10-10	350	1 x2 1/2	15B621	\$1.44	\$1.30	40-20-20	150	1 x2	15B495	\$1.44	\$1.29
10-10-10	450	1 x3	15A276	1.56	1.46	40-20-20	150/25	1 x2	15A432	1.38	1.24
10-10-10	475	1 x3	15B474	1.62	1.46	40-20-20	250	1 x3	15A757	1.74	1.57
10-10-20	450/25	1 x2	15A508	1.44	1.30	40-30-20	150	1 x2	15A512	1.50	1.35
10/100/200	450/200/25	1 x4	15A356	2.04	1.84	40-30-30	475	1 1/2 x4	15A747	3.09	2.79
15-10/20	350/25	1 x2	15B473	1.50	1.35	40-40-10	450	1 1/2 x3	15B453	2.52	2.27
15-15-10	450	1 x3	15B472	2.64	2.38	40-40-20	150/25	1 x2 1/2	15B672	1.44	1.30
20-10-10	450	1 x3	15B673	1.77	1.59	40-40-20	450/25	1 1/2 x3	15A433	2.37	2.13
20-10-20	350/25	1 x2 1/2	15A283	1.53	1.38	40-40-40	150	1 x2 1/2	15A435	1.56	1.40
20-10-20	450/25	1 x2 1/2	15A711	1.62	1.46	40-40-40	450/150	1 1/2 x3 1/2	15A764	2.48	2.21
20-10/50	450/50	1 x2	15A712	1.70	1.54	40-40-40	450	1 1/2 x3 1/2	15B467	2.94	2.64
20-20-10	150	1 x3	15B670	1.37	1.24	40-40/100	450/200	1 1/2 x4	15A743	2.97	2.87
20-20-20	350/25	1 x2 1/2	15B481	1.88	1.51	50-30/100	150/25	1 x3	15A436	1.62	1.48
20-20-20	400/25	1 x3	15A509	1.71	1.54	50-40-30*	150	1 x2 1/2	15A447	1.62	1.46
20-20-20	450	1 1/2 x2 1/2	15B465	2.16	1.94	50-50-50	150	1 x3	15A742	1.80	1.62
20-20-20	450/25	1 x2 1/2	15A428	1.83	1.65	50-50-20	150/25	1 x3	15B488	1.59	1.43
20-20/60	475/450	1 1/2 x4	15A714	2.91	2.61	60-30-10	450	1 1/2 x3	15A745	2.70	2.43
20/40-10	450/350	1 1/2 x3 1/2	15A716	2.10	1.89	60-40-20	150	1 x3	15C210	1.65	1.48
20-20-10	350	1 x2 1/2	15A815	1.95	1.75	60-40-20	150	1 x3	15C210	1.65	1.48
20-20-20	350/25	1 x3	15B470	1.88	1.67	60-20-140	200/150	1 1/2 x4	15A476	2.88	2.56
20-20-20	350/300/25	1 x3	15B630	1.89	1.70	80-20/20*	150/20	1 x2 1/2	15A430	1.62	1.46
20-30-20	450/25	1 1/2 x2 1/2	15A510	2.13	1.92	80-40-20	450	1 1/2 x4	15B668	3.24	2.92
20-30-20	475	1 1/2 x3	15A511	2.85	2.56	80-40-60	350	1 1/2 x4	15A816	3.33	3.00
20-30-30*	150	1 x2	15A446	1.50	1.35	80-60/400*	150/10	1 x3	15A427	2.19	1.97
20-30-30	450	1 1/2 x3	15A744	2.61	2.35	100-10/80	400/350	1 1/2 x4	15B235	3.66	3.29
40-10-10	475	1 1/2 x3	15A818	3.45	3.10	100-20/20	400/50	1 1/2 x3	15A399	2.88	2.59
40-10/80	450/200	1 1/2 x3	15B452	2.33	2.11	140/100/20	300	1 1/2 x4	15A355	3.45	3.10

### FOUR SECTION TYPES

Cap. Mfd.	Volts DC	Size Inches	Stock No.	Price Each	10 to 24	Cap. Mfd.	Volts DC	Size Inches	Stock No.	Price Each	10 to 24
10-10-10-10	450	1 1/2 x2	15A439	\$2.01	\$1.81	40-30-10/20	450/25	1 1/2 x3	15B466	\$2.70	\$2.43
10-10-10-10	475	1 1/2 x2	15A513	2.10	1.89	40-10-10/100	450/100	1 1/2 x3 1/2	15A726	3.21	2.89
10-10-10-10	500	1 1/2 x2	15B483	2.10	1.89	40-40-20-10	300	1 1/2 x2 1/2	15A727	2.73	2.46
10-10-10/20	450/25	1 1/2 x2	15A514	1.89	1.70	40-40-20/20	350/25	1 1/2 x3	15A822	2.82	2.56
20-10-10-10	450	1 1/2 x2 1/2	15B638	2.22	2.00	40-40-20-20	450	1 1/2 x4	15A827	3.33	3.00
20-10-10/10	500/300	1 1/2 x2 1/2	15A720	2.58	2.32	40-40-30/20	150/25	1 1/2 x2	15A437	1.88	1.67
20-20-20-20	400/25	1 1/2 x2 1/2	15A515	2.31	2.08	40-40/30-30	450/350	1 1/2 x4	15A824	3.54	3.19
20-20-20-20	450	1 1/2 x3	15A440	2.82	2.54	40-40-40/40	450/25	1 1/2 x4	15A825	3.30	2.97
20-20-20-20	475	1 1/2 x3	15B482	3.12	2.81	40/80/100/25	400/350/200/50	1 1/2 x3 1/2	15B484	3.57	3.21
20-20-20/100	450/60	1 1/2 x3	15B638	2.73	2.48	50-20-20/200	150/25	1 1/2 x2	15B649	3.15	2.84
20/80-20/50	450/200/50	1 1/2 x3	15A721	2.49	2.24	50-50-50/20	150/25	1 1/2 x2	15A730	2.13	1.92
30-30-30/40	150/25	1 1/2 x2	15A723	1.86	1.67	60-40-20/200	150/10	1 1/2 x2	15A819	2.10	1.89
35-35-10-5	450	1 1/2 x3 1/2	15B644	2.79	2.51	80-40-30/100	150/25	1 1/2 x2 1/2	15A820	2.22	2.00
40-20-10-10	475	1 1/2 x3	15A829	3.06	2.76	80-60-40-30	350	1 1/2 x4	15A475	3.84	3.46
40-20-20/40	450/25	1 1/2 x3	15A763	2.79	2.51	100-10/200-30	300/150	1 1/2 x4	15B653	3.57	3.19

## MALLORY HI-TEMPERATURE TUBULAR ELECTROLYTICS



FOR TELEVISION REPLACEMENT  
Special high temperature, fabricated plate design with 5 inch flexible leads and mounting strap.

Cap. Mfd.	Volts DC	Size Inches	Stock No.	Price Each
200	200	1 1/2 x3 1/2	15B330	\$1.71
140	300	1 1/2 x3 1/2	15B331	1.85
5-200	200	1 1/2 x3 1/2	15B346	2.09
100-60/100	300/50	1 1/2 x4	15B381	3.00
10/40/80/100	450/300/400/50	1 1/2 x4 1/2	15B361	3.23
5/30/140/20				



# Selected Capacitors

## SPRAGUE SUB-MINIATURE ELECTROLYTICS

Sprague Type TE. Extremely small, low priced electrolytics for transistorized radios, hearing aids, etc. Hermetically sealed metal enclosed design. OEM prices to 249 pieces.

3 W. V. DC				15 W. V. DC (Cont.)			
Mfd.	Size	Stk. No.	Each 10 Ea.	Mfd.	Size	Stk. No.	Each 10 Ea.
2	1/4 x 1/4	15B882	\$0.75 \$0.67	5	1/4 x 1/4	15B965	.84 .76
5	1/4 x 1/4	15A615	.75 .67	15	1/4 x 1/4	15B966	.84 .76
10	1/4 x 1/4	15B883	.75 .67	15	1/4 x 1/4	15A676	.87 .78
50	1/4 x 1/4	15A985	.75 .67	20	1/4 x 1/4	15B967	.87 .78
100	1/4 x 1/4	15A616	.84 .76	25	1/4 x 1/4	15A677	.87 .78
200	3/8 x 1/4	15A617	.90 .81	30	1/4 x 1/4	15B968	.90 .81
300	3/8 x 1/4	15A622	.99 .89	50	3/8 x 1/4	15A678	.96 .86
500	3/8 x 1/4	15A623	1.05 .95	100	3/8 x 1/4	15B982	1.08 .97
				150	3/8 x 1/4	15A679	1.17 1.05
				200	3/8 x 1/4	15A680	1.26 1.13

6 W. V. DC				25 W. V. DC			
Mfd.	Size	Stk. No.	Each 10 Ea.	Mfd.	Size	Stk. No.	Each 10 Ea.
1	1/4 x 1/4	15B893	.75 .67	1	1/4 x 1/4	15A681	.75 .67
2	1/4 x 1/4	15B896	.75 .67	3	1/4 x 1/4	15A682	.78 .70
3	1/4 x 1/4	15B848	.75 .67	5	1/4 x 1/4	15B969	.84 .76
4	1/4 x 1/4	15B849	.75 .67	10	1/4 x 1/4	15B917	.84 .76
5	1/4 x 1/4	15B914	.75 .67	15	1/4 x 1/4	15B971	.87 .78
8	1/4 x 1/4	15B871	.81 .73	20	1/4 x 1/4	15B972	.87 .78
10	1/4 x 1/4	15B912	.81 .73	25	3/8 x 1/4	15B981	.90 .81
15	1/4 x 1/4	15B930	.81 .73	30	3/8 x 1/4	15A683	.93 .84
25	1/4 x 1/4	15B931	.81 .73	35	3/8 x 1/4	15A986	.99 .89
30	1/4 x 1/4	15B872	.84 .76	50	3/8 x 1/4	15A684	1.08 .97
50	3/8 x 1/4	15B892	.84 .76	100	3/8 x 1/4	15A685	1.26 1.13
60	3/8 x 1/4	15B915	.84 .76				
100	3/8 x 1/4	15B916	.90 .81				
150	3/8 x 1/4	15A624	.93 .84				
250	3/8 x 1/4	15A625	1.02 .92				
300	3/8 x 1/4	15A628	1.08 .97				

10 W. V. DC				50 W. V. DC			
Mfd.	Size	Stk. No.	Each 10 Ea.	Mfd.	Size	Stk. No.	Each 10 Ea.
10	1/4 x 1/4	15B937	.81 .73	1	1/4 x 1/4	15A686	.78 .70
15	1/4 x 1/4	15B938	.81 .73	2	1/4 x 1/4	15A687	.81 .73
25	1/4 x 1/4	15B927	.81 .73	3	1/4 x 1/4	15B977	.81 .73
50	3/8 x 1/4	15A629	.92 .83	4	1/4 x 1/4	15B761	.81 .73
100	3/8 x 1/4	15A632	1.02 .92	5	1/4 x 1/4	15B710	.87 .78
200	3/8 x 1/4	15A633	1.20 1.08	10	1/4 x 1/4	15B891	.90 .81
				15	1/4 x 1/4	15B918	.90 .81
				35	3/8 x 1/4	15B715	1.02 .92
				50	3/8 x 1/4	15B718	1.11 1.00

12 W. V. DC				100 W. V. DC			
Mfd.	Size	Stk. No.	Each 10 Ea.	Mfd.	Size	Stk. No.	Each 10 Ea.
1	1/4 x 1/4	15A637	.75 .67	1	3/8 x 1/4	15B719	.81 .73
2	1/4 x 1/4	15A639	.75 .67	5	3/8 x 1/4	15B850	.90 .81
5	1/4 x 1/4	15A641	.81 .73	10	3/8 x 1/4	15B722	.93 .84
10	1/4 x 1/4	15A643	.81 .73	15	3/8 x 1/4	15B851	.93 .84
25	1/4 x 1/4	15A645	.84 .76	20	3/8 x 1/4	15B734	.96 .87
50	3/8 x 1/4	15A646	.93 .84				
100	3/8 x 1/4	15A647	1.05 .94				
200	3/8 x 1/4	15A648	1.23 1.11				
250	3/8 x 1/4	15A667	1.32 1.19				

15 W. V. DC				150 W. V. DC			
Mfd.	Size	Stk. No.	Each 10 Ea.	Mfd.	Size	Stk. No.	Each 10 Ea.
2	1/4 x 1/4	15A671	.75 .67	1	3/8 x 1/4	15B736	.84 .76
4	1/4 x 1/4	15A675	.78 .70	2	3/8 x 1/4	15B741	.87 .78
				4	3/8 x 1/4	15B746	.87 .78
				5	3/8 x 1/4	15B852	.83 .75
				8	3/8 x 1/4	15B753	.96 .86
				10	3/8 x 1/4	15B853	.96 .86

## MOLDED TUBULAR CAPACITORS



**CORNELL-DUBILIER TYPE PM MYLAR-DIELECTRIC**  
**SPRAGUE TM MYLAR-PAPER DIELECTRIC**  
**GOOD-ALL 600E MYLAR DIELECTRIC EPOXY MOLDED**

WHEN ORDERING give group stock number, capacity and brand desired. All sizes are available in all brands except \* types are Goodall only and † types are Cornell-Dubilier and Sprague only.

Stk. No. 15A1—100 WVDC						Stk. No. 15A7—600 WVDC					
Mfd.	Size	1-9 Ea.	10-24 Ea.	25-49 Ea.		Mfd.	Size	1-9 Ea.	10-24 Ea.	25-49 Ea.	
.001*	3 x 1/2	.16	.13	.11		.0001†	1/2 x 1/2	.15	.13	.11	
.0015*	3 x 1/2	.16	.13	.11		.00025†	1/2 x 1/2	.15	.13	.11	
.0022*	3 x 1/2	.16	.13	.11		.0005†	1/2 x 1/2	.15	.13	.11	
.0033*	3 x 1/2	.16	.13	.11		.001	1/2 x 1/2	.15	.13	.11	
.0047*	3 x 1/2	.16	.13	.11		.0015	1/2 x 1/2	.15	.13	.11	
.0068*	3 x 1/2	.16	.13	.11		.002†	1/2 x 1/2	.15	.13	.11	
.01*	3 x 1/2	.16	.13	.11		.0022	1/2 x 1/2	.15	.13	.11	
.015*	3 x 1/2	.16	.13	.11		.003†	1/2 x 1/2	.15	.13	.11	
.022*	3 x 1/2	.17	.14	.12		.0033	1/2 x 1/2	.15	.13	.11	
.033*	3 x 1/2	.17	.14	.12		.004†	1/2 x 1/2	.15	.13	.11	
.047*	3 x 1/2	.18	.15	.13		.0047	1/2 x 1/2	.15	.13	.11	
.068*	3/8 x 1/2	.21	.17	.15		.005†	1/2 x 1/2	.15	.13	.11	
.082*	3/8 x 1/2	.22	.18	.15		.006†	1/2 x 1/2	.15	.13	.11	
.1*	3/8 x 1/2	.22	.18	.16		.0068	1/2 x 1/2	.18	.16	.12	
.15*	3/8 x 1/2	.23	.20	.17		.008†	1/2 x 1/2	.18	.16	.12	
.22*	5 x 1/4	.26	.22	.19		.01	1/2 x 1/2	.18	.16	.12	
.33*	.62 x 1/2	.29	.25	.21		.015	1/2 x 1/2	.18	.16	.12	
.47*	.62 x 1/2	.34	.29	.25		.02†	1/2 x 1/2	.18	.16	.12	
.68*	.62 x 1/2	.41	.35	.30		.022	1/2 x 1/2	.18	.16	.12	

Stk. No. 15A3—200 WVDC						Stk. No. 15A9—1600 WVDC					
Mfd.	Size	1-9 Ea.	10-24 Ea.	25-49 Ea.		Mfd.	Size	1-9 Ea.	10-24 Ea.	25-49 Ea.	
.001*	3 x 1/2	.16	.13	.11		.0005†	1/2 x 1/2	.38	.35	.31	
.0015*	3 x 1/2	.16	.13	.11		.001†	1/2 x 1/2	.38	.35	.31	
.0022*	3 x 1/2	.16	.13	.11		.002†	1/2 x 1/2	.38	.35	.31	
.0033*	3 x 1/2	.16	.13	.11		.003†	1/2 x 1/2	.38	.35	.31	
.0047*	3 x 1/2	.16	.13	.11		.004†	1/2 x 1/2	.38	.35	.31	
.0068*	3 x 1/2	.16	.13	.11		.0047†	1/2 x 1/2	.38	.35	.31	
.01*	3 x 1/2	.16	.13	.11		.005†	1/2 x 1/2	.38	.35	.31	
.015*	3 x 1/2	.17	.14	.12		.006†	1/2 x 1/2	.38	.35	.31	
.02†	3/8 x 1/2	.15	.13	.11		.0068†	1/2 x 1/2	.38	.35	.31	
.022	3/8 x 1/2	.15	.13	.11		.007†	1/2 x 1/2	.38	.35	.31	
.033*	3/8 x 1/2	.17	.14	.12		.0075†	1/2 x 1/2	.38	.35	.31	
.047	3/8 x 1/2	.15	.13	.11		.008†	1/2 x 1/2	.38	.35	.31	
.05†	3/8 x 1/2	.15	.13	.11		.01†	1/2 x 1/2	.41	.37	.33	
.068*	3/8 x 1/2	.20	.17	.15		.015†	1/2 x 1/2	.41	.37	.33	
.082*	.4 x 1/2	.21	.18	.15		.02†	1/2 x 1/2	.41	.37	.33	
.1	1/2 x 1/2	.21	.19	.16		.022†	1/2 x 1/2	.41	.37	.33	
.15*	.5 x 1/2	.21	.19	.16		.03†	1/2 x 1/2	.41	.37	.33	
.22	3/4 x 1/2	.24	.22	.20		.033†	1/2 x 1/2	.41	.37	.33	
.25†	3/4 x 1/2	.24	.22	.20		.04†	1/2 x 1/2	.41	.37	.33	
.33*	.6 x 1/2	.29	.25	.23		.047†	1/2 x 1/2	.41	.37	.33	
.47	3/4 x 1/2	.35	.31	.29		.05†	1/2 x 1/2	.41	.37	.33	
.5†	3/4 x 1/2	.35	.31	.29		.05†	1/2 x 1/2	.41	.37	.33	
1.	3/4 x 1/2	.62	.56	.54							

Stk. No. 15A5—400 WVDC					
Mfd.	Size	1-9 Ea.	10-24 Ea.	25-49 Ea.	
.001*	3 x 1/2	.16	.13	.11	
.0015*	3 x 1/2	.16	.13	.11	
.0022*	3 x 1/2	.16	.13	.11	
.0033*	3 x 1/2	.16	.13	.11	
.0047*	3 x 1/2	.16	.13	.11	
.0068*	3 x 1/2	.16	.13	.11	
.0082*	3/8 x 1/2	.16	.13	.11	
.01	3/8 x 1/2	.15	.13	.11	
.015*	3/8 x 1/2	.17	.14	.11	
.02†	3/8 x 1/2	.15	.13	.11	
.022	3/8 x 1/2	.18	.15	.12	
.03†	3/8 x 1/2	.18	.15	.12	
.033*	.43 x 1/2	.20	.17	.12	
.047	1/2 x 1/2	.18	.15	.12	
.05†	1/2 x 1/2	.18	.15	.12	
.068	1/2 x 1/2	.21	.19	.16	
.1	1/2 x 1/2	.21	.19	.16	
.15*	.6 x 1/2	.25	.22	.19	
.22*	.6 x 1/2	.32	.27	.24	
.25†	3/4 x 1/2	.29	.27	.26	
.47†	3/4 x 1/2	.44	.41	.40	
.5†	3/4 x 1/2	.44	.40	.38	
1.0†	1/2 x 1/2	.73	.69	.66	

### SPRAGUE TVM-TVQ 6000 AND \*10,000 WVDC

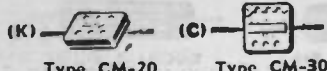
TVQ has special impregnation and heavy outer wax coating.

Mfd.	Size	Stk. No.	Each 10 Ea.
.0005	1/2 x 1/2	15A500	.79 .71



# Famous-Name Capacitors

## AEROVOX MOLDED MICA CONDENSERS



**Type CM-20** **Type CM-30**  
Fabricated from India ruby mica and rigidly tested to provide long life and high safety factor. Fig. K size  $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ . Fig. C size  $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ . C\* size  $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ . 500 Volts Wkg. Color coded and English marked.

When Ordering Specify Stk. No. 15B190 and capacity.

Fig.	Capacity	1-49 50-99 100		
		Each	Each	Each
K .000005	.00001	.18	.15	.14
K .000022	.000025	.18	.15	.14
K .000027	.00003	.18	.15	.14
K .00004	.000047	.12	.10	.09
K .00005	.000068	.12	.10	.09
K .000075	.000082	.12	.10	.09
K .0001	.00012	.12	.10	.09
K .00015	.0002	.15	.13	.11
K .00025	.0003	.18	.15	.14
K .00033	.00036	.18	.15	.14
K .0004	.00047	.18	.15	.14
K .0005	.00051	.18	.15	.14
C .00056	.00062	.18	.15	.14
C .00068	.00075	.18	.15	.14
C .00082	.00091	.18	.15	.14
C .001	.0011	.21	.18	.16
C .0015	.0015	.24	.20	.18
C .002	.002	.27	.23	.20
C .0025	.0025	.30	.25	.23
C .003	.003	.36	.30	.27
C .004	.004	.39	.33	.29
C .005	.005	.42	.35	.32
C .006	.006	.54	.45	.41
C .01	.01	.72	.60	.54

**HIGH VOLTAGE MICAS**  
For television, low power transmitter, power amplifiers applications, etc. Tested at 5000 volts. Standard tolerance 20%.

When Ordering Specify Stock No. 15B192 and capacity.

Fig.	Capacity	Voltage	1-49 25-49 50-99 100		
			Each	Each	Each
K .00005	2500	.24	.20	.18	
K .0001	2500	.33	.28	.25	
K .00015	2500	.36	.30	.27	
C .00025	2500	.36	.30	.27	
C .0005	2500	.51	.43	.38	
C .001	2500	.84	.70	.63	

**50 VOLT MYLAR GOOD-ALL 601PE**  
Slim line type for transistor circuitry. Mylar non-inductive extended foil construction. Moisture tight. Epoxy case. Excellent temperature stability. 601PE offers higher stability, better reliability at greater economy than ceramic equivalents.

Specify B-A Stock No. 15A899 and Capacity when ordering.

Mfd.	W.	Size	1-24 25-49 50-99			Mfd.	W.	Size	1-24 25-49 50-99				
			Each	Each	Each				Each	Each	Each		
.01	.31	.56	.18	.69	\$.41	.30	.068	.53	.50	\$.22	\$.79	\$.47	\$.34
.015	.31	.56	.18	.70	.42	.31	.1	.65	.53	.24	.83	.50	.36
.022	.36	.56	.18	.72	.43	.31	.15	.67	.65	.26	.88	.53	.39
.033	.53	.40	.19	.73	.44	.32	.22	.73	.69	.31	.94	.56	.41
.047	.53	.45	.20	.75	.45	.33	.33	.81	.75	.31	1.02	.61	.44

## MALLORY HEAVY DUTY AC CAPACITORS

For continuous duty AC applications such as motor running capacitors and fluorescent ballasts. Widely used on air conditioner motors, oil burners, etc. Sealed metal case, oil filled, non-inflammable providing a high safety factor and long life. Tol.  $\pm 10\%$ , 330 V AC. For motor starting capacitors see page 49.

Stk. No.	Mfg. No.	Mfd.	Dia.	Lgth.	Each	Stk. No.	Mfg. No.	Mfd.	Dia.	Lgth.	Each
15A479	RP3301	1	1 3/8"	1 1/2"	\$1.83	15A486	RP3304	4	2"	2 1/2"	\$2.16
15A480	RP3302	2	1 3/8"	1 1/2"	1.86	15A487	RP3305	5	2"	3 1/2"	2.49
15A485	RP3303	3	2"	2 1/2"	1.89	15A488	RP3306	6	2"	3 1/2"	3.09
15A491	VR3	1 3/8"	mtg. clamp.	.09		15A492	VR8	2"	mtg. clamp.	.18	

## Condenser Products Co. ASG Glassmike Capacitors

For highly dependable and exacting requirements. Pyrex glass encased, plastic film dielectric, silicone-filled and impregnated. 85° C. 150% overload test voltage. Metal end caps with 8-32 screw terminals except \* which have axial leads of tinned #18 wire. 10% tolerance.

Stk. No. 15B391 1K W.V.				Stk. No. 15B394 5K W.V.			
No.	Mfd.	Size	Net Ea.	No.	Mfd.	Size	Net Ea.
ASG 104	.1	3/4 x 2 1/4"	\$1.85	ASG 102*	.001	1 1/2 x 1 1/2"	\$3.78
ASG 254	.25	1 1/2 x 2 3/4"	1.85	ASG 502*	.005	1 1/2 x 1 1/2"	3.90
Stk. No. 15B392 2K W.V.				Stk. No. 15B395 8K W.V.			
ASG 103*	.01	1 1/2 x 1 1/2"	1.71	ASG 102*	.001	1 1/2 x 1 1/2"	3.90
ASG 503	.05	3/4 x 1 3/4"	1.85	ASG 103	.01	3/4 x 2 1/4"	4.50
ASG 104	.1	3/4 x 2 1/4"	1.91	ASG 503	.05	1 1/2 x 2 3/4"	6.80
ASG 254	.25	1 1/2 x 2 3/4"	2.13	ASG 104	.1	1 1/2 x 3 1/2"	7.50
Stk. No. 15B393 3K W.V.				Stk. No. 15B396 10K W.V.			
ASG 503	.05	1 1/2 x 2 1/4"	3.27	ASG 103	.01	1 1/2 x 2 1/4"	5.52
ASG 104	.1	1 1/2 x 2 1/4"	3.60	ASG 503	.05	1 1/2 x 2 3/4"	9.30
ASG 254	.25	1 1/2 x 2 3/4"	3.96				

## SILVER MICAS

Encased in XM molded bakelite, 1000-volt test, 500-volt working,  $\pm 5\%$  Tol. \*300 V. DCW. English marked and color coded.

Type 1469 (Similar to CM20.)  
When Ordering any Silver Mica, Specify Stock No. 15B191 and capacity.

Fig.	Capacity	1-49 50-99 100		
		Each	Each	Each
K .000005	.00001	.24	.20	.18
K .000022	.000025	.24	.20	.18
K .000027	.000033	.24	.20	.18
K .000039	.00004	.24	.20	.18
K .000047	.00005	.24	.20	.18
K .000051	.000056	.24	.20	.18
K .000068	.00007	.24	.20	.18
K .000075	.0001	.24	.20	.18
K .00015	.0002	.27	.23	.20
K .00025	.0003	.33	.28	.25
K .00035	.0004	.33	.28	.25
K .00039	.0004	.39	.33	.29
K .00047	.0005	.42	.35	.32

## SILVER MICAS Type 1464 (Similar to CM30-35)

C	Capacity	1-49 50-99 100		
		Each	Each	Each
C .00051	.00051	.42	.35	.32
C .00056	.00056	.45	.38	.34
C .00068	.00068	.48	.40	.36
C .00075	.00075	.48	.40	.36
C .00082	.00082	.51	.43	.38
C .001	.001	.60	.50	.45
C .0015	.0015	.75	.63	.56
C .002	.002	.81	.68	.61
C .0025	.0025	.96	.80	.72
C .003	.003	1.14	.95	.86
C .004	.004	1.20	1.00	.90
C .005	.005	1.29	1.08	.97
C* .01	.01	2.10	1.75	1.58

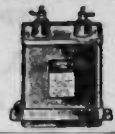
## TRANSMITTING MICAS

Tolerance  $\pm 10\%$ . H has tinned lug terminals and insulated mounting ears with 1/8" mounting centers; size 1 1/2 x 1 1/2 x 1/2". Shpg. wt. 5 oz.

Mfd.	Volts	Stk. No.	Each
.00005	2500	15A1617	1.12
.0001	2500	15A1618	1.12
.0002	2500	15A1619	1.12
.0005	2500	15A1620	1.41
.001	2500	15A1621	1.65
.002	2500	15A1622	2.44
.005	2500	15A1623	3.76

## CORNELL DUBILIER DYNACOL SIMILAR TO CP70

Rectangular can, Mill-C-25A, 85° tolerance  $\pm 10\%$ . Dynacol filled, hermetically sealed. Transmitting capacitor. Supplied with TJU universal mounting as illustrated. Avg. shpg. wt. 5 lbs. \*all type numbers start with TJU height less 7/8" pillar terminals.



Stk. No.	TJU Type*	Mfd.	Volts	Size†			1-9 Each	10-24 Each	25-49 Each
				H.	L.	W.			
15A1358	6005	5	600	2 1/8 x 1 1/2 x 1 1/2"			\$2.56	\$1.30	\$1.17
15A1359	6010	1	600	2 1/8 x 1 1/2 x 1 1/2"			2.72	1.43	1.34
15A1360	6020	2	600	2 1/8 x 1 1/2 x 1 1/2"			3.26	1.71	1.55
15A1361	6040	4	600	3 1/8 x 2 1/2 x 1 1/2"			4.40	2.27	2.04
15A1378	6060	6	600	4 1/8 x 2 1/2 x 1 1/2"			5.15	2.65	2.40
15A1363	6080	8	600	3 1/8 x 3 1/4 x 1 1/2"			6.31	3.22	2.91
15A1364	6100	10	600	4 1/8 x 3 1/4 x 1 1/2"			6.78	3.45	3.20
15A1380	100025	.25	1000	2 1/8 x 1 1/2 x 1 1/2"			2.65	1.45	1.31
15A1365	10005	5	1000	2 1/8 x 1 1/2 x 1 1/2"			2.72	1.49	1.34
15A1366	10010	1	1000	2 1/8 x 1 1/2 x 1 1/2"			2.94	1.53	1.42
15A1367	10020	2	1000	4 x 1 1/2 x 1 1/2"			3.68	1.92	1.77
15A1368	10040	4	1000	4 1/8 x 2 1/2 x 1 1/2"			4.93	2.54	2.30
15A1369	10080	8	1000	3 1/8 x 3 1/4 x 1 1/2"			7.06	3.60	3.31
15A1370	10100	10	1000	4 1/8 x 3 1/4 x 1 1/2"			8.09	4.18	3.82
15A1381	10150	15	1000	4 1/8 x 3 1/4 x 1 1/2"			10.61	5.38	5.05
15A1382	20005	5	2000	2 1/8 x 1 1/2 x 1 1/2"			4.21	2.07	1.90
15A1383	20010	1	2000	3 1/8 x 2 1/2 x 1 1/2"			4.62	2.55	2.30
15A1385	20040	4	2000	3 1/8 x 3 1/4 x 1 1/2"			8.15	4.10	3.90

## CORNELL-DUBILIER DYR BATHTUB TYPE CP53

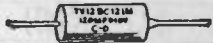
Single units listed have two insulated terminals. Inductively wound, oil filled, hermetically sealed in metal can. Mil C25A spec.  $\pm 20\%$  tolerance—operating temperature to 125° C.



Stk. No.	Type	Mfd.	WVDC	Size	1-9 Each	10-24 Each	25-49 Each
15B343	DYR6010	.1	600	1 1/2 x 1 x 3/4"	1.78	1.20	1.01
15B345	DYR6025	.25	600	1 1/2 x 1 x 3/4"	1.85	1.23	1.05
15B349	DYR6050	.5	600	1 1/2 x 1 x 3/4"	1.97	1.31	1.12
15B351	DYR6100	1	600	2 x 1 3/4 x 1 1/8"	2.29	1.52	1.29
15B359	DYR6200	2	600	2 x 2 x 1 1/8"	3.05	2.04	1.72
15B325	DYR6011	.1-1	600	1 1/2 x 1 x 3/4"	2.44	1.63	1.38
15B326	DYR6022	.25-25	600	1 1/2 x 1 x 3/4"	2.50	1.67	1.42
15A357	DYR10005	.05	1000	1 1/2 x 1 x 3/4"	1.79	1.20	1.01
15A358	DYR10010	.1	1000	1 1/2 x 1 x 3/4"	1.86	1.26	1.07
15A360	DYR10025	.25	1000	1 1/2 x 1 x 3/4"	1.93	1.28	1.09
15A364	DYR10050	.5	1000	2 x 1 3/4 x 1 1/8"	2.06	1.37	1.16
15A328	DYR10100	1	1000	2 x 2 x 1 1/8"	2.81	1.87	1.59

## CORNELL-DUBILIER TANTALUM CAPACITORS

Soliton solid electrolyte type "TY". Extremely small size. Unmatched for critical demands of computer, military and transistor circuitry. Completely dry, hermetically sealed. Highly stable over wide temperature range -80° C to +85° C. Tolerance  $\pm 20\%$ . \*Size A 1/8" dia. x 1/4" length; B 1/8" dia. x 1/8" length. Specify Stk. No. and Capacity.



Cap. Mfd.	Mfg. No.	Size	1-24		25-49		Stk. No. 15B165 35 VOLTS	1-24		25-49	
			Each	Each	Each	Each		Each	Each		
5.6	TY12B85R6M	B	\$1.48	\$1.17	.25	TY12BFR25M	A	\$1.46	\$1.17		
47	TY12B8470M	B	1.52	1.22	.47	TY12BFR47M	A	1.46	1.17		
150	TY12B8151M	B	2.52	2.02	1.0	TY12BF010M	A	1.46	1.17		
Stk. No. 15B163 10 VOLTS			3.3	TY12BF3R3M	A	1.52	1.22				
33	TY12B8330M	B	1.52	1.22	4.7	TY12BF47M	A	1.52	1.22		
100	TY12B8101M	B	2.52	1.02	10.	TY12BF100M	B	2.52	2.02		
Stk. No. 15B164 20 VOLTS			15.	TY12BF150M	B	2.52	2.02				
47	TY12B8470M	B	2.52	2.02	27.	TY12BF270M	B	2.52	2.02		
100	TY12B8101M	B	4.70	3.76	47.	TY12BF470M	B	4.70	3.76		



# Ceramic Capacitors

## ERIE GENERAL PURPOSE CERAMICONS

Features excellent high frequency characteristics. Fully insulated. Working voltage 600 V. DC. "Type 315". .562" long .25" dia. Tolerance 10%. Ideally suited for coupling and by-passing non-resonant circuits. Quantity prices available on all Erie Items

GP Style 315		and 316			
Stk. No.	Mmf.	Stk. No.	Mmf.	Stk. No.	Mmf.
15B28	5	15B96	30	15B106	100
15B29	10	15B97	33	15A518	150
15B39	12	15B98	39	15A519	180
15B40	15	15B99	47	15A520	200
15B42	20	15B100	50	15A521	220
15B57	22	15B102	56	15A523	250
15B94	25	15B104	75	15A524	270
15B95	27	15B105	82	15A525	300
15A526	330	15A528	390	15A530	500
15A529	470	15A531	510	15A534	750
15A533	1000	15B107	1000	15B109	1500

Choice 1-49 Each... **18c** 50 to 99 Each... **13c** 100 or Over, Each... **11c**

## ERIE N330 NEGATIVE TEMPERATURE TYPE

Erie No. TC3 show negative capacity of minus 330 parts per million per degree C rise in temperature. Tubular type 600 V. Jan style CC20 size .2x4; CC21 .25x.562; CC26 .25x.812.

Stock No.	Cap. Mmf.	Jan Style	1-49 Each	50-99 Each	Stock No.	Cap. Mmf.	Jan Style	1-49 Each	50-99 Each
15A114	1	CC20	\$.10	\$.08	15A120	12	CC21	\$.18	\$.14
15A115	2.2	CC20	.10	.08	15A131	15	CC21	.18	.14
15A116	3.3	CC20	.10	.08	15A132	22	CC21	.18	.14
15A117	4.7	CC20	.10	.08	15A133	33	CC21	.18	.14
15A118	6.8	CC20	.22	.16	15A145	47	CC26	.19	.14
15A119	10	CC20	.22	.16	15B152	68	CC26	.19	.14

## ERIE TYPE N750 TUBULARS

Erie No. TC7 show negative capacity of minus 750 parts per million per degree C rise in temperature. Tubular type 600 V. Jan Style CC20 size .2x4; CC21 .25x.562; CC26 .25x.812; CC33 .315x1.25.

Stock No.	Cap. Mmf.	Jan Style	1-49 Each	50-99 Each	Stock No.	Cap. Mmf.	Jan Style	1-49 Each	50-99 Each
15A147	2.2	CC20	\$.10	\$.08	15A178	30	CC21	\$.18	\$.14
15A148	5	CC20	.10	.08	15A179	47	CC21	.18	.14
15A149	10	CC20	.22	.16	15A180	68	CC26	.19	.14
15A150	15	CC21	.18	.14	15A218	100	CC26	.19	.14
15A151	24	CC21	.18	.14	15B153	120	CC26	.19	.14

## ERIE ZERO CHANGE TYPE NPO

Erie No. TCO provide zero capacity change with temperature. Tubular type. Size .25" dia. x .562" long. 600 VDCW.

Stock No.	Cap. Mmf.	Tol. Mmf.	1-49 Each	50-99 Each	Stock No.	Cap. Mmf.	Tol. Mmf.	1-49 Each	50-99 Each
15A260	.5	.25	\$.10	\$.08	15A282	20	5%	\$.18	\$.14
15A268	1.5	.25	.10	.08	15A308	24	5%	.19	.14
15A269	3.3	.25	.10	.08	15A309	27	5%	.19	.14
15A277	4.7	.25	.10	.08	15A310	33	5%	.19	.14
15A280	10	.25	.22	.16	15A311	39	5%	.19	.14
15A281	15	5%	.18	.14	15A312	47	5%	.12	.10

## CENTRALAB CE AND CF STABLE K DISCS

Exceptionally stable discs for applications where temperatures may vary over a wide range. All are 500 V. DC working. Specify B-A No. 15B193 and Value.

Mfg. No.	Mmf.	Dia.	1-24 Each	25-99 Each	Mfg. No.	Mmf.	Dia.	1-24 Each	25-99 Each
CE151	150	.29	\$.018	\$.014	CF122	1200	.385	\$.018	\$.014
CE221	220	.29	.10	.14	CF152	1500	.385	.18	.14
CE331	330	.29	.10	.14	CF202	2000	.590	.21	.16
CE471	470	.29	.10	.14	CF222	2200	.590	.21	.16
CE501	500	.29	.10	.14	CF332	3300	.590	.21	.16
CE561	560	.29	.10	.14	CF472	4700	.690	.21	.16
CE681	680	.385	.10	.14	CF502	5000	.690	.21	.16
CE751	750	.385	.10	.14	CF822	8200	.920	.24	.19
CE801	800	.385	.10	.14	CF103	10000	.920	.24	.19
CE102	1000	.385	.18	.14					

## ERIE DISC CERAMICONS TYPE ED

Type ED. Highly efficient general purpose capacitor. Overall protective coating provides insulation. 600 Volt working 1500 VDC Test. Tolerance 10% through .0015 Mmf., balance guaranteed minimum value.

Mmf.	Mmf.	Mmf.	Mmf.	Mmf.	Mmf.	Mmf.	Mmf.
5	25	56	150	300	560	2200	.01
10	27	68	180	330	680	2500	.02
12	30	75	200	350	750	3300	
15	33	82	220	360	800	4000	
18	39	91	240	390	820	4700	
20	47	100	250	470	1000	5000	
22	50	120	270	500	1500	6800	

No. 15B121. Specify Stock Number and Choice of Above Values. From 1 to 49 each... **10c** From 50 to 99 Each... **9c** 100 or More Each... **7c**

## ERIE CERAMIC TRIMMERS



Style TS. NPO types have zero drift with temperature. N500 types have uniform negative change 500/million° C. 1-49 50-99

Stk. No.	Mmf.	Type	Each	Each	Stk. No.	Coef.	Mmf.	1-49 Each	50-99 Each
15A567	1.5-7	NPO	\$1.10	\$0.87	15B154	NPO	2-8	\$1.62	\$1.35
15A568	3-12	NPO	1.10	.87	15B155	NPO	5.5-18	1.62	1.35
15A569	4-30	N500	1.10	.87	15B156	N300	2.5-11	1.62	1.35
15B516	5-20	N300	1.10	.87	15B157	N300	7-25	1.62	1.35
15A570	7-45	N500	1.10	.87	15B158	N500	3-10	1.62	1.35
15B159	N500	8-25	1.62	1.35	15B160	N650	3-10	1.62	1.35
15B161	N650	9-35	1.62	1.35					

## ERIE 357 FEED-THRU CERAMICON

Efficient RF by-passing with terminals to support other components or use as tie points. No. 15B658. Mfg. No. 357-102. 1000 Mmf. Net Each... **81c** No. 15B659. Mfg. No. 357-152. 1500 Mmf. Net Each... **81c**

## CENTRALAB HI-CAPACITY LOW VOLTAGE DISCS

For transistor circuits requiring high capacity and very low power factor combined with small size and light weight.

Stk. No.	Mfd.	Dia.	1-24 Each	25-99 Each	Stk. No.	Mfd.	Dia.	1-24 Each	25-99 Each
15A886	.22	7/8"	\$.53	\$.42	15B559	.005	3/8"	\$.21	\$.16
15A854	.22	7/8"	.32	.26	15B560	.01	3/8"	.21	.16
15A855	.47	3/8"	.32	.26	15B561	.02	3/8"	.21	.16
15A856	1	3/8"	.53	.42	15B562	.025	3/8"	.21	.16
15A857	2.2	3/8"	.53	.42	15B563	.03	3/8"	.21	.16
15A858	.05	1/4"	.32	.26	15B564	.05	3/8"	.21	.16
15A859	.1	1/4"	.32	.26	15B565	.1	3/8"	.21	.16
15A860	.2	3/8"	.32	.26					
15A861	.47	3/8"	.53	.42					

## SPRAGUE CERAMIC CAPACITORS

### GENERAL PURPOSE TYPES

Selected for superior performance in specific applications as described with each type.

### SPRAGUE TYPE HIGH-K

HIGH CAPACITY GENERAL PURPOSE CERAMICS

Stk. No.	Cap. Mmf.	WVDC	Co.	Box 5	Stk. No.	Cap. Mmf.	WVDC	Co.	Box 5
15A177	.01 Mfd.	1000	.18	.88	15B329	.03 Mfd.	500	.38	1.86
15B250	.015 Mfd.	500	.24	1.17	15A194	.05 Mfd.	500	.41	1.86
15B327	.02 Mfd.	500	.35	1.71	15A195	.1 Mfd.	500	.94	1.86

### SPRAGUE TYPE TG

MINIATURE DISCS FOR TRANSISTOR CIRCUITRY, 50 VOLTS DC WORKING

Stk. No.	Mfg. No.	Mfd.	Each	Stk. No.	Mfg. No.	Mfd.	Each
15B552	TGS50	.005	26c	15B554	TGS25	.025	38c
15B553	TGS10	.01	38c	15B555	TGS50	.05	41c
15B557	TGS20	.02	38c	15B556	TGP10	.1	53c

### SPRAGUE TYPE BL

2000 VOLT CERAMIC DISCS FOR BUFFER APPLICATIONS

Stk. No.	Mfg. No.	Mfd.	Each	Stk. No.	Mfg. No.	Mfd.	Each
15B952	BL-D10	.001	21c	15B957	BL-D60	.006	21c
15B953	BL-D20	.002	21c	15B958	BL-D70	.007	21c
15B954	BL-D30	.003	21c	15B959	BL-D75	.0075	21c
15B955	BL-D40	.004	21c	15B960	BL-D80	.008	21c
15B956	BL-D50	.005	21c	15B961	BL-D10	.01	21c

SPRAGUE CERAMIC CHART. Explains use of all Ceramic Capacitors. No. 25A220. With Order... **FREE**

### SPRAGUE HIGH VOLTAGE DISCS

Stk. No.	Mmf.	Size	Each	Stk. No.	Mmf.	Size	Each
15A867	4.7	3/8"	\$0.24	15A876	150	3/8"	\$0.24
15A869	10	3/8"	.24	15A877	220	3/8"	.24
15B383	25	3/8"	.24	15B386	500	3/8"	.24
15B385	50	3/8"	.24	15A868	.0022 Mfd.	3/8"	.24
15A874	68	3/8"	.24	15A873	.005 Mfd.	3/8"	.27
15A875	100	3/8"	.24				

### SPRAGUE TEMPERATURE COMPENSATING DISCS

No.	Mmf.	Size	Each	No.	Mmf.	Size	Each
15A767	1	3/8x3/8"	29c	15B335	25	3/8x3/8"	29c
15A768	1.5	3/8x3/8"	29c	15B336	33	3/8x3/8"	29c
15A769	2.2	3/8x3/8"	29c	15B337	47	3/8x3/8"	32c
15A770	3.3	3/8x3/8"	29c	15B338	68	3/8x3/8"	32c
15A771	4.7	3/8x3/8"	29c	15B339	100	3/8x3/8"	32c
15A772	6.8	3/8x3/8"	29c	15B340	150	3/8x3/8"	35c
15B332	10	3/8x3/8"	29c	15B379	220	3/8x3/8"	41c
15B333	15	3/8x3/8"	29c	15B380	270	3/8x3/8"	47c
15B334	22	3/8x3/8"	29c				

### SPRAGUE HI-VOLTAGE TV CAPACITORS

500 Mmf. Ceramic molded in plastic. Both 20 and 30 KV types are packaged with six interchangeable terminals to fit all TV sets. No. 15A750. Size, 1x1 1/2". 20 KV DC. Each... **\$1.09** No. 15A749. Size, 1 1/4x1 1/2". 30 KV DC. Each... **\$1.76**



# Guardian Relays



## ALL PURPOSE ECONOMY RELAY AC-DC

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., non-inductive load. 8 amp. for 4 pole types. Size, 1 1/4" x 1 1/2" x 1". Shpg. wt. 4 oz.

### IR500 60 CYCLE AC

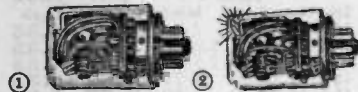
Stock No.	Coil Volts	Mfg. No.	Cont. Comb.	Net Each
19A417	6	IR-500-A6	SPST	\$2.50
19A418	6	IR-500-C6	SPDT	2.80
19A419	6	IR-500-G6	DPDT	3.10
19A420	6	IR-500-GG6	4PDT	4.30
19A421	24	IR-500-A24	SPST	2.50
19A422	24	IR-500-C24	SPDT	2.80
19A423	24	IR-500-G24	DPDT	3.10
19A424	24	IR-500-GG24	4PDT	4.30
19A425	115	IR-500-A115	SPST	2.50
19A426	115	IR-500-C115	SPDT	2.80
19A427	115	IR-500-G115	DPDT	3.10
19A428	115	IR-500-GG115	4PDT	4.30
19A429	230	IR-500-G230	DPDT	3.70

### IR505 DC COILS

Stock No.	Coil Volts	Mfg. No.	Cont. Comb.	Net Each
19A430	6	IR-505-A6	SPST	\$2.50
19A431	6	IR-505-C6	SPDT	2.80
19A432	6	IR-505-G6	DPDT	3.10
19A433	6	IR-505-GG6	4PDT	4.30
19B265	12	IR-505-A12	SPST	2.50
19B266	12	IR-505-C12	SPDT	2.80
19B267	12	IR-505-G12	DPDT	3.10
19B268	12	IR-505-GG12	4PDT	4.30
19A434	24	IR-505-A24	SPST	2.50
19A435	24	IR-505-C24	SPDT	2.80
19A436	24	IR-505-G24	DPDT	3.10
19A412	24	IR-505-GG24	4PDT	4.30
19A413	110	IR-505-A110	SPST	3.05
19A414	110	IR-505-C110	SPDT	3.15
19A415	110	IR-505-G110	DPDT	3.50
19A416	110	IR-505-GG110	4PDT	4.70

All Guardian relays are continuous duty unless otherwise stated.

## MEDIUM POWER TYPE



### ENCLOSED PLUG-IN

① Type 1210 and 1215. Plug-in relay with clear lucite enclosure. Protects against dust, moisture, etc., for long trouble free service. Small size 2 1/4" x 1 3/8" x 1 3/8". Wt. 3.5 ozs. DPDT has octal base, 3PDT has 11 pin base. Contacts 8 amp. for all plug-in types.

### ① TYPE 1210 AC COIL

Stock No.	Coil Volts	Mfg. No.	Cont. Comb.	Net Each
19A527	6	1210-G6	DPDT	\$5.70
19A528	6	1210-GC6	3PDT	7.10
19A529	24	1210-G24	DPDT	5.70
19A530	24	1210-GC24	3PDT	7.10
19A538	115	1210-G115	DPDT	5.70
19A531	115	1210-GC115	3PDT	7.10

### ① TYPE 1215 DC COILS

Stock No.	Coil Volts	Mfg. No.	Cont. Comb.	Net Each
19A532	6	1215-G6	DPDT	\$5.80
19A533	6	1215-GC6	3PDT	7.25
19A534	24	1215-G24	DPDT	5.80
19A535	24	1215-GC24	3PDT	7.25

### ① PLATE CIRCUIT TYPE

Enclosed plug-in for DC.

Stock No.	Mfg. No.	Contacts	Each
19A525	1215-G 2.5K ohm	DPDT	\$6.00
19A526	1215-G 5K ohm	DPDT	6.10
19A541	1215-G 10K ohm	DPDT	6.40
19A542	1215-GC 2.5K ohm	3PDT	7.00
19A543	1215-GC 5K ohm	3PDT	7.20
19A490	1215-GC 10K ohm	3PDT	7.50

### ③ WITH BUILT-IN NEON LAMP

Same as above except it has neon lamp connected across coil terminals, lights when coil is energized. Used for indicating circuit faults in relay banks or individual switching points. For 115 V. AC operation. Each 19A491. 1210N-G115. DPDT. \$6.30  
19A600. 1210N-GC115. 3PDT. \$7.70

### OPEN STYLE AC-DC

1200 & 1205. Highly efficient, small size, dependable relay. 8 amp contacts. Solder term. molded in phenolic barrier type back to meet UL specs. 1 3/8" x 1 1/4". Single hole mtg. Wt. 2.5 oz.

### TYPE 1200 AC COIL

Stock No.	Coil Volts	Mfg. No.	Cont. Comb.	Net Each
19A452	6	1200-G6	DPDT	\$3.60
19A453	6	1200-GC6	3PDT	4.00
19A454	24	1200-G24	DPDT	3.60
19A455	24	1200-GC24	3PDT	4.00
19A456	115	1200-G115	DPDT	3.60
19A457	115	1200-GC115	3PDT	4.00

### TYPE 1205 DC COILS

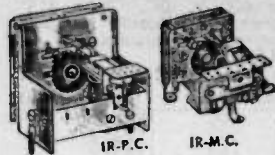
Stock No.	Coil Volts	Mfg. No.	Cont. Comb.	Net Each
19A458	6	1205-G6	DPDT	\$3.30
19A459	6	1205-GC6	3PDT	3.70
19A460	24	1205-G24	DPDT	3.30
19A461	24	1205-GC24	3PDT	3.70

## TYPE IR-X-300ER OVERLOAD RELAY

Electrical reset type. Protects against overloads. Adjustable from 250 to 750 MA. Front panel control. SPST circuit breaker contacts, also SPDT contacts for indicator circuit. Size 4 3/4" x 1 1/8" x 2". Shpg. wt. 13 oz. No. 19A158. Net Each. \$8.85

## GUARDIAN STEPPING RELAYS

### CONTINUOUS ROTATION

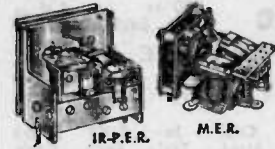


IR-PC 40 point. Heavy duty stepper. For accurate sequence circuit selecting. Oilite bearings, rigid frame, size 3 3/8" x 3 3/8". Wt. 17 ozs.

IR-MC 24 point midget. Continuous rotation stepper similar to above except smaller size with 24 points. Size 2 1/8" x 3 3/8". Wt. 9 1/2 oz.

Stk. No.	Mfg. No.	Volts AC	VA	Watts	Max. Steps	Net Ea.
19A395	IR-PC-115	115	70	45	20 per sec.	\$18.15
19A471	IR-MC-115	115	30	18	20 per sec.	13.00

### ELECTRICAL RESET

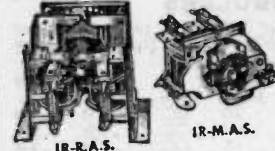


IR-PER 40 point electrical reset stepper. Heavy duty long life design, has oilite bearings. Resets automatically when reset coil is energized. 40 point, 35 active. 3 x 3/8" x 3 3/8". Wt. 18 ozs.

IR-MER 24 point electrical reset stepper. Positive reset on pulses as short as 10 MS. Capable of counting up to 21 then resetting automatically. Two or more may be interconnected to increase count as desired. Size 3 1/4" x 2 1/8" x 3 1/4". Wt. 14 ozs. Contacts 1 amp.

Stk. No.	Mfg. No.	Volts AC	VA	Watts	Max. Steps	Net Ea.
19B397	IR-PER-115	115	100	43	10 per sec.	\$24.20
19A547	IR-MER-115	115	30	18	20 per sec.	14.00

### ADD AND SUBTRACT TYPE



IR-RAS. Heavy duty stepper, steel frame. Steps one at a time—either direction depending on which of the two coils is energized. 40 pt. ratchet. Size 3 1/4" x 1 3/8" x 3 3/8". Wt. 16 ozs.

IR-MAS. Smaller version of above with 30 pt. ratchet—27 active. Size 1 1/8" x 3/8" x 3". Wt. 14 ozs.

Stk. No.	Mfg. No.	Volts AC	VA	Watts	Max. Steps	Net Ea.
19B393	IR-RAS-115	115	100	45	10 per sec.	\$25.30
19A545	IR-MAS-115	115	15	10	20 per sec.	15.95

### CYCLING 4PDT STEPPER



M120 Cycling Ratchet. 4PDT stepper with 3 position switch operation, center position "off". Precision action 24 pt. ratchet. Fine silver contacts rated 10 amp. Coil resistance 50 ohms, 115 volt, 60 cycle AC, 100 VA, 70 watts. Max. steps per second 10.

No. 19A407. Type IR-M-120-115A. Net Each. \$11.75

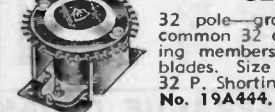
### ROTOMITE STEPPER-DC



12 positions—continuous rotation. Entirely new stepper design, completely metal enclosed permitting a wider range of new applications. Will operate up to 20 steps per second. 3 amp contacts resistive load. Used in business machines, computer circuits, automation, counting, sorting, model trains etc. Size 2" L x 1 1/8" dia. Wt. 5 oz. Continuous duty DC Coils.

No. 19A486. 6 Volts DC. Mfg. No. IR-705-12P-6D. Net Each. \$5.40  
No. 19A487. 12 Volts DC. Mfg. No. IR-705-12P-12D. Net Each. \$5.40  
No. 19A488. 24 Volts DC. Mfg. No. IR-705-12P-24D. Net Each. \$5.40

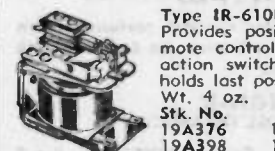
### 32 POLE RELAY TYPE 805



32 pole—group selector relay. Can simultaneously make common 32 circuits, all insulated from ground. All contacting members completely enclosed. Rated 3 A. per set of blades. Size 2 1/2" L x 1 1/8" H x 2 1/8" W. Shpg. wt. 6 oz. 32 P. Shorting Relay. 24 V. DC.

No. 19A444. Type IR-805-S. Each. \$4.30

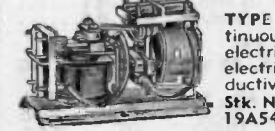
### LATCHING ON/OFF RELAY 60 CYCLES AC



Type IR-610L. Midget latching relay for use on 115 V. AC. 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 2 1/8" x 1 1/8" x 1 3/8". Wt. 4 oz.

Stk. No.	Volts	Mfg. No.	Contacts	Net Each
19A376	115 AC	IR-610L-A115	SPST	\$3.80
19A398	115 AC	IR-610L-C115	SPDT	3.95

### 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. 8 amp contacts 60 cycle, non-inductive. Size 1 1/8" x 1 3/8" x 2 1/8". Wt. 5.5 oz.

Stk. No.	Mfg. No.	Contacts	Volts	Each
19A549	IR-1200/1200-GG115	4PDT	115 V. AC	10.25

### IMPULSE RATCHET RELAYS



Type 670. Built for longer life and more dependable service. For on-off control of lighting, motors, appliances, speaker applications and many others. Contact ratings to 12 1/2 amp. resistive load (110 volts). Each impulse reverses contacts, fast acting (up to 10 per second). Intermittent duty coil. Relay size 3 x 1 3/4" x 2 1/8". Wt. 7 1/2 oz. Replaces and is interchangeable with discontinued series IR-RC-100.

Stk. No.	Volts	Mfg. No.	Contacts	Net Each
19A523	115 AC	670-C115	SPDT	\$5.75
19A524	115 AC	670-G115	DPDT	5.85



# Guardian & Advance Relays & Solenoids

## POWER RELAYS

With Interchangeable Coil Assemblies



Industrial quantity users may DEDUCT from net prices of all Guardian products these additional discounts:  
 25-49 of a kind 10%  
 50-99 of a kind 15%  
 100 or more of a kind 20%  
 B-A is your authorized stocking distributor for ALL Guardian products.

① 2200 DPDT. Size 3 3/8" L. x 2 1/2" W. x 2 1/8" H. Wt. 11 1/2 ozs.  
 ② 2210 DPST (normally open). Size 2 1/8" L. x 2 1/2" W. x 2 1/8" H. Wt. 10 oz.  
 Series 2200 and 2210 Power Relays are rated 25 amperes, continuous duty at 230 volts AC with 75% power factor. Operating power requirement for AC is 9.5 volt amperes, 60 cycles. Molded bakelite base with interchangeable coil. Screw terminals. For heavy duty applications including motor starting, heater loads, etc. Mounting: 2 holes for 8-32 screws on 1 7/8" centers.

Stock No.	Volts AC	Mfg. No.	Net Each	Stock No.	Volts AC	Mfg. No.	Net Each
19A462	6	2200-DPDT-6	\$6.10	19A269	6	2210-DPST-NO-6	\$5.25
19A463	24	2200-DPDT-24	6.10	19A272	24	2210-DPST-NO-24	5.25
19A464	115	2200-DPDT-115	6.10	19A273	115	2210-DPST-NO-115	5.25
19A465	230	2200-DPDT-230	6.50	19A303	230	2210-DPST-NO-230	6.60

### REPLACEMENT COILS FOR BOTH 2200 AND 2210 RELAYS

Stk. No.	Coil Volts AC	Net Each	Stk. No.	Coil Volts AC	Net Each
19A466	6 Volt	\$2.25	19A468	115 volt	\$2.25
19A467	24 Volt	2.25	19A469	230 Volt	2.50

### REPLACEMENT CONTACT SWITCH PARTS FOR 2200

Available for Series 2200 only—replacement contact switch parts for either right or left SPDT assembly. No solder needed.

19A316. CS-2200-Left. Ea. \$1.85 19A318. CS-2200-Right. Ea. \$1.85

## NEW 2400 POWER RELAY

New design featuring inverted coil construction which protects armature and contacts insuring long life and reliable operation. DPDT contacts UL rated 15 amp at 115 V. AC. Non-inductive or 1 HP at 115/230 volts 60 cycle. Screw type terminals. Size 3 3/8" L. x 2 1/2" W. x 2 1/8" H. Wt. 8 oz. Auxiliary easy to mount SPDT switch rated 10 amps is available as separate unit.

Stk. No.	Volts AC	Mfg. No.	Net Ea.	Stk. No.	Volts AC	Mfg. No.	Net Ea.
19B355	6	2400-6	\$5.40	19B358	115	2400-115	\$5.40
19B356	24	2400-24	5.40	19B360	230	2400-230	5.70
No. 19B361. 2400-SPDT-Aux. Switch. Net Each. \$1.35							

## UNIVERSAL "200" SERIES

### COIL AND CONTACT ASSEMBLIES

Two basic parts—a Coil Assembly with core piece and a Contact Assembly with switch blades, armature, spring and frame—compose this versatile relay. Very easy to set up or change about.

Order choice of Coil Assembly and choice of Contact Assembly from tables below for each complete relay. Average shpg. wt. 4 oz.

All coil assemblies are interchangeable and fit either Standard or Midget size Contact Assemblies. AC Coil ratings 4 watts, DC 3 watts

### 60 CYCLE AC COILS

Stock No.	Fact. No.	Coil Rating	Price Each	Stock No.	Fact. No.	Coil Rating	Price Each
19A31	200-6A	6 1.7	\$1.75	19A35	200-6D	6 12	\$1.90
19A32	200-12A	12 6.8	1.75	19A36	200-12D	12 50	1.90
19A33	200-24A	24 24	1.75	19A37	200-24D	24 200	1.90
19A34	200-115A	115 725	2.05	19A38	200-32D	32 350	1.90
19B60	200-230A	230 2950	2.70	19A39	200-110D	110 3400	2.50
NOTE: For a complete relay select a Coil plus a Contact Assembly.							

### DC COILS

Stock No.	Fact. No.	Coil Rating	Price Each
19A35	200-6D	6 12	\$1.90
19A36	200-12D	12 50	1.90
19A37	200-24D	24 200	1.90
19A38	200-32D	32 350	1.90
19A39	200-110D	110 3400	2.50
19B3	200-5000D	Plate Coil	2.20
19A437	200-10000D	Plate Coil	2.50

### CONTACT SWITCH ASSEMBLIES

For use with Coil Assemblies above. All contacts are fine silver. Ratings are for 115 V. 60 cy. non-inductive load. Size of standard units assembled is 1 3/4" x 2 7/8" x 1 1/8" W. Size of Midget units assembled, 1 1/2" x 2 1/4" x 1 1/8" W.

### STANDARD CONTACT ASSEMBLIES

Stock No.	Fact. No.	Contact Rating	Price Each
19A40	200-1	SPDT 8 Amps	\$1.50
19A41	200-2	DPDT 8 Amps	2.00
19B4	200-4	DPDT 12 1/2 Amps	2.25
19B2	200-5	4PDT 8 Amps	3.50

### MIDGET CONTACT ASSEMBLIES

Stock No.	Fact. No.	Contact Rating	Price Each
19B17	200-M1	SPDT 10 Amps	\$1.40
19B48	200-M2	DPDT 10 Amps	1.75
19B61	200-M5	4PDT 8 Amps	2.85

### EXTRA SWITCH PARTS KIT

Consists of switch blades, contacts and insulators to make any contact arrangement up to 4 P.D.T. when used in combination with any Contact Assembly and Coil Assembly from above table.  
 No. 19A42. Type 200-3. Fits Standard Assembly. Each \$1.50  
 No. 19B95. Type 200-M3. Fits Midget Assembly. Each 1.50

## POWERLOID IR-1410

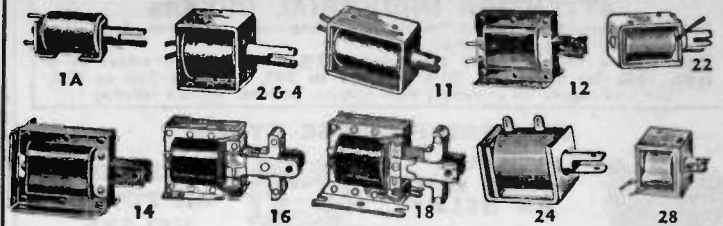
Powerful, enclosed relay. Contacts rated 3 H.P. U.L. 220 volts, 8000 watts resistive heater load. Combines functions of a relay and solenoid. AMP terminals on coil, screw type terminals on contacts. Contacts are SPST double break. Size 3 5/8" x 2 1/2" x 2 1/8". Wt. 5.5 ozs. For 115 V. AC. Coil resistance 45 ohms.  
 No. 19A540. IR-1410-A-115. \$4.30



## SWITCH KIT

Indispensable to those who design, build, repair or test electrical controls. Contains large assortment of switch blades, contacts, separators, adapters, fish paper bushings, etc. Relays may be modified, switching arrangements changed or defective parts replaced. All standard high quality Guardian parts.  
 No. 19A406. Net Each. \$10.95

SEE PAGE 55 FOR COAX, ELECTRONIC AND OTHER ANTENNA SWITCHING RELAYS



## GUARDIAN SOLENOIDS

For countless applications requiring electro-mechanical actuation. Intermitent types can be energized up to 5 minutes or for temperature rise of 85° C., continuous duty types for unlimited time, if operated within power rating. Plunger has slotted end with 1/8" hole for coupling. "I" indicates intermittent; "C" continuous duty.

Stock No.	Mfg. No.	Duty	Volts	AC or DC	Ohms	Amps.	Adj. Stroke	*Max. Lift	Body Size L. W. H.	Wt. Oz.	Each Net
19B96	1A1	I	115	AC	300	.17	1/8" 1/2"	8 oz.	1 1/2" 1 1/2" 1 1/2"	4.5	\$2.80
19B104	1A1	C	115	AC	675	.076	1/8" 1/2"	3 oz.	1 1/2" 1 1/2" 1 1/2"	4.5	2.80
19B105	1A1	I	115	DC	803	.14	1/8" 1/2"	5 oz.	1 1/2" 1 1/2" 1 1/2"	4.5	3.00
19B106	1A1	C	115	DC	2070	.05	1/8" 1/2"	2 oz.	1 1/2" 1 1/2" 1 1/2"	4.5	3.00
19B101	2	I	115	AC	60	.50	1/8" 1/2"	27	2 1/2" 1 1/2" 1 1/2"	10	3.20
19B134	2	C	115	AC	166	.155	1/8" 1/2"	10.5	2 1/2" 1 1/2" 1 1/2"	10	3.20
19B100	4	I	115	AC	37	.64	1/8" 1/2"	24 oz.	2 1/2" 1 1/2" 1 1/2"	14.5	3.80
19B139	4	C	115	AC	133	.14	1/8" 1/2"	6 oz.	2 1/2" 1 1/2" 1 1/2"	14.5	3.80
19B140	4	I	115	DC	346	.33	1/8" 1/2"	57 oz.	2 1/2" 1 1/2" 1 1/2"	14.5	4.00
19B141	4	C	115	DC	1210	.09	1/8" 1/2"	20 oz.	2 1/2" 1 1/2" 1 1/2"	14.5	4.00
19B142	11	I	6	DC	2	3.00	1/8" 1/2"	39 oz.	1 1/2" 1 1/2" 1 1/2"	7.5	2.70
19B143	11	C	6	DC	5	1.2	1/8" 1/2"	21 oz.	1 1/2" 1 1/2" 1 1/2"	7.5	2.70
19B144	11	I	24	AC	5.1	1.10	1/8" 1/2"	20 oz.	1 1/2" 1 1/2" 1 1/2"	7.5	2.70
19B153	11	C	24	AC	12	.33	1/8" 1/2"	8 oz.	1 1/2" 1 1/2" 1 1/2"	7.5	2.70
19B154	11	I	24	DC	32	.750	1/8" 1/2"	39 oz.	1 1/2" 1 1/2" 1 1/2"	7.5	2.70
19B155	11	C	24	DC	72	.333	1/8" 1/2"	21 oz.	1 1/2" 1 1/2" 1 1/2"	7.5	2.70
19B156	11	I	115	AC	125	.225	1/8" 1/2"	20 oz.	1 1/2" 1 1/2" 1 1/2"	7.5	2.70
19B165	11	C	115	AC	300	.072	1/8" 1/2"	8 oz.	1 1/2" 1 1/2" 1 1/2"	7.5	2.70
19B102	12	I	115	AC	100	.27	1/8" 1/2"	32 oz.	1 1/2" 1 1/2" 1 1/2"	6	4.15
19B169	12	C	115	AC	150	.155	1/8" 1/2"	22 oz.	1 1/2" 1 1/2" 1 1/2"	6	4.15
19B103	14	I	115	AC	11	1.4	1/8" 1/2"	110 oz.	2 1/2" 1 1/2" 1 1/2"	19	5.50
19B170	14	C	115	AC	18	.52	1/8" 1/2"	65 oz.	2 1/2" 1 1/2" 1 1/2"	19	5.50
19B184	16	I	115	AC	41	.54	1/8" 1/2"	96 oz.	1 1/2" 1 1/2" 1 1/2"	7.5	3.20
19B174	16	C	115	AC	85	.19	1/8" 1/2"	55 oz.	1 1/2" 1 1/2" 1 1/2"	7.5	3.20
19B263	16	I	230	AC	224	.230	1/8" 1/2"	96 oz.	1 1/2" 1 1/2" 1 1/2"	7.5	3.40
19B284	16	C	230	AC	350	.110	1/8" 1/2"	55 oz.	1 1/2" 1 1/2" 1 1/2"	7.5	3.40
19B186	18	I	115	AC	8.8	1.45	1/8" 1/2"	304 oz.	2 1/2" 1 1/2" 1 1/2"	16.5	4.50
19B90	18	C	115	AC	19.7	.39	1/8" 1/2"	145 oz.	2 1/2" 1 1/2" 1 1/2"	16.5	4.50
19B285	18	I	230	AC	45	.59	1/8" 1/2"	304 oz.	2 1/2" 1 1/2" 1 1/2"	16.5	4.70
19B286	18	C	230	AC	78	.20	1/8" 1/2"	145 oz.	2 1/2" 1 1/2" 1 1/2"	16.5	4.70
19A325	22	I	6	DC	4.7	1.27	1/8" 1/2"	24 oz.	1 1/2" 1 1/2" 1 1/2"	2.5	2.60
19A328	22	C	6	DC	9	.667	1/8" 1/2"	13 oz.	1 1/2" 1 1/2" 1 1/2"	2.5	2.60
19A337	22	I	24	DC	80	.4	1/8" 1/2"	24 oz.	1 1/2" 1 1/2" 1 1/2"	2.5	2.60
19A352	22	C	24	DC	144	.167	1/8" 1/2"	13 oz.	1 1/2" 1 1/2" 1 1/2"	2.5	2.60
19A374	24	I	115	AC	310	.130	1/8" 1/2"	19 oz.	1 1/2" 1 1/2" 1 1/2"	3.0	2.95
19A375	24	C	115	AC	500	.07	1/8" 1/2"	12 oz.	1 1/2" 1 1/2" 1 1/2"	3.0	2.95
19A23	28	I	24	AC	7.5	.9	1/8" 1/2"	35 oz.	1 1/2" 1 1/2" 1 1/2"	3.5	2.70
19A24	28	C	24	AC	17.4	.34	1/8" 1/2"	20 oz.	1 1/2" 1 1/2" 1 1/2"	3.5	2.70
19A25	28	I	115	AC	220	.16	1/8" 1/2"	35 oz.	1 1/2" 1 1/2" 1 1/2"	3.5	2.90
19A27	28	C	115	AC	400	.077	1/8" 1/2"	20 oz.	1 1/2" 1 1/2" 1 1/2"	3.5	2.90
19A43	28	I	6	DC	3.3	1.8	1/8" 1/2"	41 oz.	1 1/2" 1 1/2" 1 1/2"	3.5	2.60
19A44	28	O	6	DC	7.7	.78	1/8" 1/2"	35 oz.	1 1/2" 1 1/2" 1 1/2"	3.5	2.60
19A47	28	I	12	DC	13	9.2	1/8" 1/2"	41 oz.	1 1/2" 1 1/2" 1 1/2"	3.5	2.60
19A58	28	O	12	DC	27	.45	1/8" 1/2"	35 oz.	1 1/2" 1 1/2" 1 1/2"	3.5	2.60
19A65	28	I	24	DC	50	.48	1/8" 1/2"	41 oz.	1 1/2" 1 1/2" 1 1/2"	3.5	2.60
19A68	28	C	24	DC	104	.23	1/8" 1/2"	35 oz.	1 1/2" 1 1/2" 1 1/2"	3.5	2.60

## ADVANCE RELAYS

### GHA SERIES

Small size, excellent quality, low priced. 1 1/2" H. x 1 1/4" W. x 1 1/2" L. Wt. 3 oz. 5 amp silver contacts. Solder terms. are molded in barrier type mtg. which can be used in printed circuit applications.

### TYPE GHA AC VOLTS

Stk. No.	Mfg. No.	Cont.	Volts	Each
178829	1C-6	SPDT	6	\$3.06
178830	1C-115	SPDT	115	3.05
178831	2C-6	DPDT	6	3.55
178832	2C-115	DPDT	115	3.55
178833	3C-115	3PDT	115	4.05

### TYPE GHA DC VOLTS



# Potter & Brumfield Relays

## ATTENTION INDUSTRIAL BUYERS

B-A offers you factory Net Prices! Save time—we ship from stock. Use this quantity discount schedule. Deduct from the single lot price shown 5% for 25 to 50 relays of a type, 10% for 51 to 99, 30% for 100 to 249, 35% for 250 to 499. We can supply all standard P&B relays. Request special catalog.

### GENERAL PURPOSE TYPES

#### SMALL LIGHT DUTY KA RELAY

DC and 60 Cy. 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 1/2" x 1 1/2" x 1 1/2" high. 110 V. DC Coil res. 10,000 ohms. Wt. 2 oz.

Stk. No.	Type	Contacts	Coil V.	Each
19A1429	KA5AY	SPDT	6AC	\$3.20
19A1332	KA5AY	SPDT	12AC	3.20
19A1430	KA5AY	SPDT	24AC	3.20
19A1431	KA5AY	SPDT	115AC	3.20
19A1432	KA5D	SPDT	6DC	3.05
19A379	KA5D	SPDT	12DC	3.05
19A378	KA5D	SPDT	24DC	3.05
19A1370	KA5D	SPDT	110DC	3.05
19A1423	KA11AY	DPDT	6AC	3.85
19A1424	KA11AY	DPDT	24AC	3.85
19A1425	KA11AY	DPDT	115AC	3.85
19A1426	KA11D	DPDT	6DC	3.40
19A1427	KA11D	DPDT	12DC	3.40
19A1428	KA11D	DPDT	24DC	3.40
19A1371	KA11D	DPDT	110DC	3.40
19A1433	KA14AY	3PDT	6AC	4.25
19A1434	KA14AY	3PDT	24AC	4.25
19A1446	KA14AY	3PDT	115AC	4.25
19A380	KA14D	3PDT	6DC	3.85
19A381	KA14D	3PDT	12DC	3.85
19A382	KA14D	3PDT	24DC	3.85
19A1372	KA14D	3PDT	110DC	3.85

Some as above except Contact Rating

10 Amp. For AC volts.	Contact Rating	Coil V.	Each
19A1375	KA5AG	SPDT	6V. \$3.25
19A1445	KA5AG	SPDT	12V. 3.25
19A1447	KA5AG	SPDT	24V. 3.25
19A1448	KA5AG	SPDT	115V. 3.25
19A1501	KA11AGDPDT	6V.	3.95
19A1502	KA11AGDPDT	12V.	3.95
19A1503	KA11AGDPDT	24V.	3.95
19A1504	KA11AGDPDT	115V.	3.95
19A1505	KA11AGDPDT	230V.	4.35
19B362	KA14AG3PDT	6V.	4.40
19B364	KA14AG3PDT	12V.	4.40
19B386	KA14AG3PDT	24V.	4.40
19B391	KA14AG3PDT	115V.	4.40

#### ENCLOSED PLUG-IN KRP RELAYS

Small size long life relay for dependable use in automation control, communications switching, etc. Enclosed in clear plastic dust cover. Size 1 1/2" x 1 1/2" x 1 1/2" high. 10 amp contacts on KRP types ending in G, all others are 5 amps. Octal base for type P5 and P11, 11 pin for P14. Wt. 3 oz.

Stk. No.	Type	Contacts	Coil V.	Each
19A1354	KRP5A	SPDT	115AC	\$5.45
19A1390	KRP5AG	SPDT	115AC	5.55
19A1355	KRP5D	SPDT	6DC	5.40
19A1381	KRP11A	DPDT	6AC	6.05
19A1391	KRP11AG	DPDT	6AC	6.25
19A1357	KRP11A	DPDT	12AC	6.05
19A1382	KRP11A	DPDT	24AC	6.05
19A1392	KRP11AG	DPDT	24AC	6.25
19A1439	KRP11A	DPDT	115AC	6.05
19A1393	KRP11AG	DPDT	115AC	6.25
19A1383	KRP11D	DPDT	6DC	6.00
19A1394	KRP11DG	DPDT	6DC	6.20
19A1384	KRP11D	DPDT	12DC	6.00
19A1395	KRP11DG	DPDT	12DC	6.20
19A1385	KRP11D	DPDT	24DC	6.00
19A1396	KRP11DG	DPDT	24DC	6.20
19A1358	KRP11D	DPDT	110DC	6.60
19A1462	KRP14A	3PDT	115AC	7.50
19A1397	KRP14AG	3PDT	115AC	7.80
19A1328	KRP14D	3PDT	12DC	7.45
19A1359	KRP14D	3PDT	24DC	7.45

#### KCP SENSITIVE TYPE

Same appearance as KRP above. Operates on 125 MW for SP, 250 MW for DP, and 375 MW for 3P. 1/2" silver contacts rated 2 amps. 1 1/2" square x 2" high. Wt. 3 oz.

Stk. No.	Type	Cont.	Ohms	Each
19A1353	KCP5	SPDT	5K	\$6.00
19A1312	KCP5	SPDT	10K	6.40
19A1532	KCP11	DPDT	5K	6.40
19A1533	KCP11	DPDT	10K	6.80
19A1511	KCP14	3PDT	10K	8.25

#### MEDIUM DUTY MR POWER RELAYS

For small motors, transmitters and general purpose use. Full floating armature. Fast, positive 60 cy. AC coils 3.25 watts. DC coils 1.6 watts. 1/2" silver contacts rated 8 amps, 115 V. AC non-inductive, 10 amp for double break. Size 2 1/2" x 1 1/2" x 1 1/2" for single pole—2 1/2" x 2 1/2" for double pole.

Stk. No.	Type	Contacts	Coil V.	Each
19A383	MR3A	SPSTDB	6AC	\$3.85
19A384	MR3A	SPSTDB	24AC	3.85
19A385	MR3A	SPSTDB	115AC	3.85
19A1405	MR5A	SPDT	6AC	3.45
19A1417	MR5A	SPDT	24AC	3.45
19A1406	MR5A	SPDT	115AC	3.45
19A1333	MR5A	SPDT	230AC	3.85
19A1409	MR5D	SPDT	6DC	3.20
19A1316	MR5D	SPDT	12DC	3.20
19A1318	MR5D	SPDT	110DC	3.70
19A1407	MR11A	DPDT	6AC	4.85
19A1319	MR11A	DPDT	12AC	4.85
19A1419	MR11A	DPDT	24AC	4.85
19A1408	MR11A	DPDT	115AC	4.85
19A1449	MR11A	DPDT	230AC	5.25
19A1410	MR11D	DPDT	6DC	4.60
19A387	MR11D	DPDT	12DC	4.60
19A1320	MR11D	DPDT	24DC	4.60
19A1334	MR14A	3PDT	6AC	5.80
19A1440	MR14A	3PDT	24AC	5.80
19A1422	MR14A	3PDT	115AC	5.80
19A1450	MR14A	3PDT	230AC	6.20

#### KT ANTENNA RELAYS

Low-loss glass Melamine Insulation. For switching 300 ohm RF line. DPDT silver contacts rated at 5 amps. Size 1 1/2" x 1 1/2" x 1 1/2". Mounts with 6-32 stud.

Stk. No.	Type	Coil V.	Net Ea.
19A1451	KT11A	6AC	\$3.70
19A1452	KT11A	115AC	3.70
19A1453	KT11D	6DC	3.70
19A1454	KT11D	12DC	3.70

#### PC IMPULSE TYPE

Armature driven rocker type actuator with single coil provides impulse switching for circuit reversing or on-off use. Requires only 60 MS pulse. Contacts rated at 7.5 amps. Size 2 1/2" x 2 1/2" mounting. Wt. 5 oz.

Stk. No.	Type	Conts.	Coil V.	Each
19A1344	PC11A	DPDT	115AC	\$5.50
19A1345	PC17A	4PDT	24AC	7.60
19A1346	PC17A	4PDT	115AC	7.60
19A1347	PC17A	4PDT	230AC	8.00

#### AP RATCHET OPERATED

Actuates on electrical impulses as short as 60 milliseconds. Each successive impulse reverses contact position. 1/2" fine silver contacts. Rating 5 A.

Size 3 3/4" x 2 1/4" x 2 3/8" H.

Stk. No.	Type	Contacts	Coil V.	Each
19A1435	AP11A	DPDT	24AC	\$8.70
19A1436	AP11A	DPDT	115AC	8.70
19A1529	AP11A	DPDT	230AC	9.15
19A1330	AP11D	DPDT	24DC	8.70
19A1438	AP17A	4PDT	115AC	10.50
19A1389	AP17D	4PDT	6DC	10.50

#### MINIATURE MH TELEPHONE TYPE

Extremely fast acting and long life. Ideal where space and weight are factors. Overall size 1 3/8" H. x 3/4" W. x 1 1/2" L. Wt. 2 oz. 5 amp. silver contacts. Except

MH11L, 3 amp.

Stk. No.	Type	Contacts	Coil V.	Each
19A1305	MH11L	DPDT	10K	\$5.45
19A1306	MH17D	4PDT	6DC	5.45
19A1307	MH17D	4PDT	12DC	5.45
19A1308	MH17D	4PDT	24DC	5.45

## HEAVY DUTY POWER TYPES

FOR HEATING-VENTILATING-AIR CONDITIONING-MOTOR STARTING  
UL and CSA Listed—All Screw Terminals



### PR HEAVY DUTY POWER RELAYS

A highly dependable, fast acting, sturdily constructed relay for continuous heavy duty use in industrial control applications. Molded phenolic base, bobbin and contact carrier. 25 amp silver contacts. 2 1/2" wide x 2 1/2" long x 2 3/8" high (PR11 are 4 3/8" long). AC types are 60 cycles, single throw types are normally open. Wt. 1 lb.

Stk. No.	Type	Contacts	Coil V.	Each
19A366	PR3AY	SPST	24AC	\$4.15
19A1402	PR3AY	SPST	115AC	4.15
19A1335	PR3AY	SPST	230AC	4.50
19A1415	PR3D	SPST	6DC	4.15
19A1336	PR3D	SPST	12DC	4.15
19A370	PR5AY	SPDT	24AC	4.35
19A1403	PR5AY	SPDT	115AC	4.35
19A371	PR5AY	SPDT	230AC	4.75
19A1337	PR5D	SPDT	12DC	4.35
19A1322	PR5D	SPDT	24DC	4.35
19A1368	PR7AY	DPST	6AC	4.90
19A368	PR7AY	DPST	24AC	4.90

#### PR11A15 TYPE

Same power type PR described above. DPDT with additional set of SPDT contacts 1/2" silver rated 5 amps. Permits use of remote control circuits such as push button, time delay, etc.

Stk. No.	Type	Coil V.	Each
19A1341	PR11A15	24AC	\$8.15
19A1342	PR11A15	115AC	8.15
19A1343	PR11A15	230AC	8.55

#### PM 4PDT POWER TYPE

For use in polyphase and heavy duty switching. 1/2" contacts rated 16 amps, 115 V.—8 amp 220 V. resistance AC, 1 H.P. per movable arm at 115 or 220 single phase. Meets UL requirements. 2 3/8" W, 3 3/8" D, 2 1/2" H. Heavy 8-32 screw terminals. Wt. 14 oz. For AC volts.

Stk. No.	Mfg. No.	Coil Volts	Net Each
19A1510	PM17A	6	\$12.35
19A1511	PM17A	12	12.35
19A1512	PM17A	24	12.35
19A1513	PM17A	115	12.35
19A1514	PM17A	230	12.75

#### ALL METAL DUST COVER for all PR Relays.

19A438. PB #35D013. Each. \$3.00  
For MS, MR and SP Relays.  
19A1441. PB #35D130. Each. \$1.90

#### KB LATCHING TYPE

Consists of one coil to set latch and another coil to release it. Both operate on same voltage with only a momentary pulse.

For memory devices, overload protection and automatic control. All are 5 amp contacts except last three with No. ending in G which are 10 amp. Size 2 1/2" x 1 1/2" x 2 3/8". Wt. 6 oz.

Stk. No.	Type	Contacts	Coil V.	Each
19A1468	KB17AY	4PDT	6AC	\$10.50
19A1469	KB17AY	4PDT	24AC	10.50
19A1470	KB17AY	4PDT	115AC	10.50
19A1360	KB17D	4PDT	12DC	9.45
19A1361	KB17D	4PDT	24DC	9.45
19A1398	KB17AG	4PDT	24AC	10.60
19A1443	KB17AG	4PDT	115AC	10.60
19A1399	KB17DG	4PDT	24DC	9.65

#### PLATE CIRCUIT TYPE LB-5 LOW COST SPDT

Designed for top performance at unusually low cost. 5 amp silver contacts. Two hole mtg. centers 2 3/8". Wt. 2 oz.

Stk. No.	Coil Res.	Coil Ma.	Each
19A1413	2,500	9.0	\$2.45
19A1414	5,000	6.3	2.65
19A1444	10,000	4.5	2.85

#### RS5D SENSITIVE RELAY

Low price, light weight for model controls, light dimmers, radiosonde, etc. 2 amp palladium contacts. Size 1 x 3/8" x 3/8" H. Wt. 1 1/2 oz.

Stk. No.	Coil Ohms	Pull In	Each
19A1491	335	6 V.	\$2.60
19A1442	1.35 K	12 V.	2.75
19A1493	2.5 K	5 MA	2.85
19A1494	5 K	3.5 MA	3.15
19A1495	10 K	2.5 MA	3.60

Stk. No.	Type	Contacts	Coil V.	Each
19A1404	PR7AY	DPST	115AC	\$4.90
19A369	PR7AY	DPST	230AC	5.35
19A1373	PR7D	DPST	12DC	4.90
19A1321	PR7D	DPST	24DC	4.90
19A1374	PR7D	DPST	110DC	5.50
19A1369	PR11AY	DPDT	6AC	6.45
19A372	PR11AY	DPDT	24AC	6.45
19A160	PR11AY	DPDT	115AC	6.45
19A373	PR11AY	DPDT	230AC	6.95
19A1416	PR11D	DPDT	6DC	6.45
19A1338	PR11D	DPDT	12DC	6.45
19A377	PR11D	DPDT	110DC	7.05

#### MS MOTOR STARTING

For capacitor start, induction run motors. Operates on back EMF of running winding. Meets all underwriters requirements. Size 2 1/2" x 2 1/2" x 2 3/8" high. Pure silver contacts.

For 3/4 H.P. Motors

Stk. No.	Type	Rating	AC Ea.
19A1455	MS2AY	SPST-NC	115 \$3.55
19A1456	MS2AY	SPST-NC	230 3.95

For Motors Up to 3 HP (DB Contacts)

Stk. No.	Type	Rating	AC Ea.
19A1457	MS4AY	SPST-NC	115 4.15
19A1458	MS4AY	SPST-NC	230 4.55

#### MB3D Power Contactor

Miniature high current type. Rated 60 amp at 28 V. DC up to 130 amp surge. Large silver contacts on brass arm.



# Time Delay, Relays, Solenoids

## AMPERITE TIME DELAY RELAY

Thermostatic type hermetically sealed, unaffected by altitude, moisture or other atmospheric conditions. Contacts are SPST rated at 3 amps.

Standard type are 2 7/8" 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.

See ordering information below.

### NORMALLY OPEN CONTACTS

### NORMALLY CLOSED CONT.

Delay Sec.	6.3	Heater Voltage		115	Delay Sec.	6.3	Heater Voltage		115
		26	115			26	115		
2	.....	26N02	115N02		2	6C2	26C2	115C2	
3	6N03	26N03	115N03		3	6C3	26C3	115C3	
5	6N05	12N05	26N05	115N05	5	6C5	26C5	115C5	
8	.....	.....	.....	115N08	8	.....	.....	115C8	
10	6N010	26N010	115N010		10	.....	26C10	115C10	
15	6N015	12N015	26N015	115N015	15	6C15	26C15	115C15	
20	6N020	26N020	115N020		20	6C20	26C20	115C20	
30	6N030	12N030	26N030	115N030	30	6C30	26C30	115C30	
45	.....	26N045	115N045		.....	.....	.....	.....	
60	6N060	12N060	26N060	115N060	60	6C60	26C60	115C60	
90	6N090	.....	26N090	115N090	90	6C90	26C90	115C90	
120	6N0120	12N0120	26N0120	115N0120	120	6C120	26C120	115C120	
180	6N0180	.....	26N0180	115N0180	180	6C180	26C180	115C180	

26N180, 115N0180, 26C180, 115C180 not available in Min. 9-Pin Series. No. 20B805. STANDARD OCTAL BASE TIME DELAY RELAY. For standard octal base types specify our stock number and Amperite type number.

No. 20B806. 9-PIN MINIATURE TIME DELAY RELAY. For 9-pin miniature type specify our stock number and add T to Amperite type number.

Your Choice of any type, Net Each..... **\$2.35**

## DOW COAXIAL RELAYS

For switching 52 ohm coax line from receiver to transmitter. Rated to one KW on matched line. • Silver contacts. • 50 gram contact pressure. • Low cross talk. • SWR less than 1.1 to 1 up to 400 MC. Size 2 3/4 x 3 3/4 x 1 1/8". Wt. under 9 oz. Low loss Teflon insulated terminals.

Type DK60-G with receiver protection connector. No. 16A987. 115 V. 60 cy. AC. Each..... **\$13.70**

Type DK60-G2C. Same as DK60-G with auxiliary DPDT contacts. No. 16A996. 115 V. 60 cy. AC. Each..... **\$15.65**

No. 16A998. 6 V. DC. Each..... **15.65**

No. 16A999. 12 V. DC. Each..... **15.65**

## DOW ELECTRONIC ANTENNA SWITCH

Vacuum tube transmit-receive Type Switch

For either 52 or 72 ohms, no insertion loss, instant response, has above unity gain at all frequencies, is TVI proof, and has high receiver isolation. DKC-TRM-1 operates on 6 and 12 volts useable for fix or mobile. Requires 90-120 volts DC at 15 to 30 MA.

DKC-TRM-1. Size 1 3/8 x 1 3/8 x 2 3/4". Wt. 8 ozs. (1.5 to 60 mc) No. 16A921. Complete with tube..... **\$12.50**

## ADVANCE ANTENNA RELAYS

### ADVANCE COAXIAL TYPE

Use with 52 ohm Coax Cable. 1/4" pure silver SPDT contacts. 83-R Connectors. Max. rating 880 watts at 100 MC. Operates on 110 V. 60 cy. AC. Size 1 7/8 x 3 3/8 x 3 7/8". Wt. 1 lb. CB1C115VA. No. 17B346. Net Each..... **\$12.15**

CB1C2C115VA with auxiliary DPDT contacts. No. 17B347. Net Each..... **\$13.25**

### ADVANCE ANTENNA RELAY

Heavy duty RF and high voltage relay with conservative 1 KW rating. Highly efficient ceramic steatite insulation. Excellent wiping action assures no loss of minute current flow in receive position. Height 1 1/4", 2 1/4" wide, 3 3/8" long. Wt. 12.6 oz.

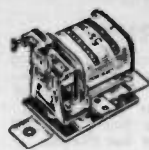
DPDT 10 amp contacts. For 115V AC operation. AT/2C/115 VA. No. 17C837. Each..... **\$13.20**

## AUTOMATIC ELECTRIC ANTENNA RELAY

Automatic Model 51 provides DPDT switching for any RF or power circuit up to 1000 watts requiring a high quality well insulated relay. Contacts are 1/4" pure silver. Base and bar ceramic. 110-volt AC. Size 3 3/8 x 2 1/4 x 1 1/4". Shpg. wt. 1 lb. Type 51. No. 17A731. Net Each..... **\$4.95**

## SIGMA SENSITIVE RELAYS

### 41FZ SERIES AC RELAY



Highly sensitive, completely quiet, shaded-pole, long life relay. All types operate on 0.2 volt-amperes, contacts carry 2 amps. All others require 0.4 V.A., have 4 amp contacts. Size 1 1/4 x 2 1/4 x 1 1/8". Wt. 2 1/2 oz.

Stock No. Sigma-Type AC Net 41FZ Volts Each

19A508	10ACG-SIL	6	\$3.50
19A509	35ACS-SIL	6*	4.00
19A510	200ACG-SIL	24	3.50
19A511	500ACS-SIL	24*	4.00
19A512	5000ACG-SIL	115	3.65
19A513	10000ACS-SIL	115*	4.45

### 5F SERIES SPDT DC



Sensitive, general purpose DC relay with balanced armature construction. Offers precise operation with high

sensitivity SPDT 1 amp silver contacts. Open type design—mounting two 6-32 tapped holes. Size 1 3/4" long, 1 1/8" wide, 1 1/8" high. Wt. 4 1/4 oz.

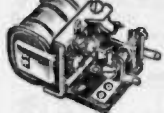
Stock No.	Sigma Type & Coil Resistance	Net Each
19B592	5F-1000 -S-SIL	\$8.25
19B593	5F-2500 -S-SIL	8.25
19B594	5F-5000 -S-SIL	8.80
19B595	5F-8000 -S-SIL	9.65
19B596	5F-10000-S-SIL	9.65

### SERIES 72

High Speed Polar Switching Type. Electrical replacement for Western Electric 255. It is two position remaining in last position. Basically a SPDT for high speed switching or pulsing up to 500 per sec. such as teletype or telegraph service. Octal base operates on 50 volts DC at 1.4 MA. Type 72AOZ-160-TS-TCP. No. 19A520. Net..... **\$33.00**



### TYPE 4F RELAY.



Useful in model airplane control or any electronic circuit requiring high sensitivity. Adjustable spring tension and air gap varies sensitivity from 10 to 200 milliwatts. Balanced armature permits relay to work in any position. SPDT contacts rated 2 amps. Size 1 1/2 x 1 5/8 x 1 1/2". Wt. 2 1/4 oz.

Stock No. Mfg. No. Coil Oper. Net 4F Type Ohms MA Each

19A515	4F-1000S-SIL	1M	4.5	\$6.05
19A516	4F-2500S-SIL	2.5M	3.0	6.05
19A517	4F-5000S-SIL	5M	2.0	6.35
19A518	4F-8000S-SIL	8M	1.6	6.60

### TYPE 11F. New low cost DC Relay.

Very popular sensitive type. Size 1 1/2 x 1" x 1" x 1". Weight 1 oz. 50 milliwatt sensitivity SPDT silver contacts rated at 1 amp. Un-insulated from chassis. Mounts by means of two 4-40 screws tapped in base.

Stock No. Mfg. No. Coil Oper. Net 11F Type Ohms MA Each

19A504	11F-1000G-SIL	1000	7.0	\$1.75
19A580	11F-1500G-SIL	1500	5.8	1.75
19A505	11F-2300G-SIL	2300	4.6	1.75
19A582	11F-3500G-SIL	3500	3.7	1.75
19A506	11F-6000G-SIL	6000	3.0	1.95
19A507	11F-9000G-SIL	9000	2.4	2.15

## 46 & 42 SERIES PLUG-IN RELAYS

### 46 SERIES DPDT

Power type relay for switching up to 10 amp loads. Used for machine controls, timers, laundry equipment etc. Plastic dust cover. Fits standard octal socket. Base wired for conventional contact connections. Size: 1 1/8" sq., 2 1/8" high. Wt. 5 oz.

Stk. No.	Mfg. No.	Volts	Each	Stk. No.	Mfg. No.	Volts	Each
19B556	-17-LW-SIL	6	\$6.00	19B568	-1700M-ACW-SIL	6	\$6.05
19B558	-65-LW-SIL	12	6.00	19B570	-6500M-ACW-SIL	12	6.05
19B560	-280-LW-SIL	24	6.00	19B572	-28-ACW-SIL	24	6.05
19B562	-650-LW-SIL	36	6.00	19B574	-65-ACW-SIL	36	6.05
19B564	-1100-LW-SIL	48	6.20	19B576	-110-ACW-SIL	48	6.05
19B566	-6500-LW-SIL	120	6.60	19B578	-650-ACW-SIL	120	6.45

### 42 SERIES DPDT

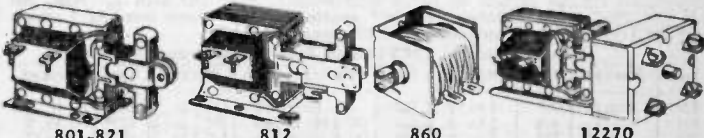
General purpose plug-in, high sensitivity type. ULA listed. Ideal for output relay in control circuits. 5 amp contacts. Fits octal socket, has conventional contact connections. Size 1 1/4" x 2 1/4" high. Wt. 5 1/4 oz.

Stk. No.	Mfg. No.	Coil Ohms	Net Ea.
19B544	42R06-1000-G-SIL	1000	\$6.20
19B546	42R06-2500-G-SIL	2500	6.20
19B548	42R06-5000-G-SIL	5000	6.40
19B554	42R06-10000-G-SIL	10000	6.60

CALL ON B-A FOR ALL YOUR RELAY REQUIREMENTS. QUANTITY PRICES ARE EQUAL TO FACTORY SCHEDULE AND WE SAVE YOU TIME WITH OFF-THE-SHELF DELIVERY.

## CONTROLS COMPANY HEAVY-DUTY SOLENOIDS

Stock No.	Mfg. No.	Duty	AC Volts	Max. Stroke	Max. Pull Lb.	Overall W. H.	1-9 Each	10-24 Each
43A101	801-101	Constant Int.	110	5/8"	4 1/2"	1 1/2" x 1 1/2"	\$4.33	\$3.90
43A102	801-102	Constant Int.	110	5/8"	5 3/8"	1 1/2" x 1 1/2"	4.33	3.90
43A104	812-101	Constant Int.	110	1 1/8"	8 3/8"	2 1/2" x 2 1/2"	5.76	5.19
43A105	812-102	Constant Int.	110	1 1/8"	11	2 1/2" x 2 1/2"	5.71	5.14
43A106	812-103	Constant Int.	220	1 1/8"	10 1/2"	2 1/2" x 2 1/2"	5.97	5.38
43A107	812-201	Constant Int.	110	1 1/8"	11	2 1/2" x 2 1/2"	6.00	5.40
43A108	812-202	Constant Int.	110	1 1/8"	14	2 1/2" x 2 1/2"	5.95	5.36
43A109	812-203	Constant Int.	220	1 1/8"	11	2 1/2" x 2 1/2"	6.35	5.72
43A110	821-101	Constant Int.	110	1 1/8"	13	2 3/4" x 2 3/4"	8.36	7.53
43A111	821-102	Constant Int.	110	1 1/8"	20	2 3/4" x 2 3/4"	7.40	6.66
43A112	821-103	Constant Int.	220	1 1/8"	20	2 3/4" x 2 3/4"	9.33	8.40
43A113	860-101	Constant Int.	110	3/8"	1.25	1 1/8" x 1 1/8"	3.00	2.70
43A114	860-102	Int.	110	3/8"	2.25	1 1/8" x 1 1/8"	3.00	2.70
43A115	2J-12270	110 Volt Solenoid-Switch	110	25 amp.	125/250 V. AC.		5.30	4.83
43A116	2K-12270	220 Volt Solenoid-Switch	220	25 amp.	125/250 V. AC.		5.48	4.93



Types 801-821 and 812 are heavy duty solenoids of superior quality for operating valves, clutches, switches, metering devices, shutters and dampers, interlocks and mechanical controls of many types. Features highly efficient "double T" plunger design, moisture proof coil molded in epoxy plastic, convenient screw terminals. There is a wide range of sizes for 110 and 220 V. AC operation, further application data available on request. Type 860. Compact unit where big power in a small size is required. Operates quietly in any position. Type 12270. Solenoid operated DPST switch rated 25 amps for heavy-duty control applications. Choice of 110 or 220 V. AC solenoid.

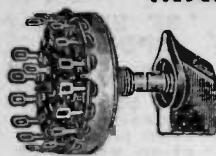
Quantity Users—Write Us for Industrial Price Quotations



# Mallory And Centralab Switches

## MALLORY SWITCHES

### SINGLE-GANG 3100J & 3200J SERIES



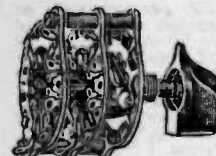
Compact switches having wide application including use in all electronic equipment. Rating 500 V. break-down; max. current .125 amp 300 V. DC 3 amp @ 6 V. DC. Have 2" notched shafts, silver contacts, 3/8" dia. x 3/8" long brass threaded bushing. Bar knob and mounting hardware included. See Below for Plates.

Specify B-A Stock No. 12A366 and Type No. When Ordering.

Shorting Type	Non-Shorting Type	Poles	Positions	Base Dia.	Each 1-4	Each 5-9	Each 10-24	Each 25-49
3115J	3215J	1	5	1 1/4"	\$ .99	\$0.84	\$0.76	\$0.72
3112J	3212J	1	12	1 1/4"	.99	.84	.76	.72
3122J	3222J	2	2	1 1/4"	.99	.84	.76	.72
3125J	3225J	2	3	1 1/4"	.99	.84	.76	.72
3126J	3226J	2	4	1 1/4"	.99	.84	.76	.72
3134J	3234J	3	3	1 1/4"	1.02	.87	.78	.74
3142J	3242J	4	2	1 1/4"	1.02	.87	.78	.74
3143J	3243J	4	3	1 1/4"	1.02	.87	.78	.74
3117J	3217J	1	17*	1 1/4"	1.52	1.29	1.16	1.10
3129J	3229J	2	9*	1 1/4"	1.52	1.29	1.16	1.10
3136J	3236J	3	6*	1 1/4"	1.63	1.38	1.24	1.18
3163J	3263J	6	3*	1 1/4"	1.63	1.38	1.24	1.18

\*Have adjustable stops to prevent turning to unused contacts.

### MULTI-GANG 1300L SERIES



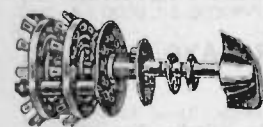
1 1/4" Mounting Radius. 1 fixed and 1 adjustable stop, silver plated contacts, solid silver rotor contact slugs and special alloy springs. 2" notched shafts, 1/2" spacing between sections on all except 3 and 4 gang which have 1" spacing. Rating 1000 V. break down; max current 6 amp @ 300 V. DC; 8 amp @ 6 V. DC. Bar knob, mtg. hardware included. Uses 1 1/4" Base-Plates. All switches are non-shorting.

Specify B-A Stock No. 12A367 and Type Number When Ordering.

Type	Gang	Pole	Pos.	1-4	5-9	10-24	25-49	Type	Gang	Pole	Pos.	1-4	5-9	10-24	25-49
1311L*	1	1	11	2.05	1.74	1.57	1.49	1322L	2	8	2	2.54	2.16	1.94	1.84
1312L	1	4	2	2.05	1.74	1.57	1.49	1323L	2	6	3	2.54	2.16	1.94	1.84
1313L	1	3	3	2.05	1.74	1.57	1.49	1325L	2	4	5	2.54	2.16	1.94	1.84
1315L	1	2	5	2.05	1.74	1.57	1.49	1331L*	3	3	11	3.18	2.70	2.43	2.31
1321L*	2	2	11	2.54	2.16	1.94	1.84	1335L	3	6	5	3.18	2.70	2.43	2.31

\*No third or "off" position with all circuits open. Others have "off" posi.

### CERAMIC SECTION 170C & 160C SERIES

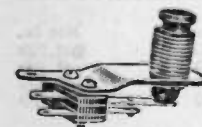


Rotary, non-shorting, adjustable stops, 30° indexing, 2 gang, 1/2" spacing; 3 gang 1". \*Indicates extra position (Off). Max. breaking current, resistive load, 5A. @ 300 V. AC-DC. Non-breaking 10 A. Hamband non-shorting continuous rotation, 90° index, 2 gang 1 1/8" spacing, all others 1". Rated 100 watts @ 1000 V. DC.

Specify B-A Stock No. 12A368 and Type When Ordering.

HAMBAND CERAMIC SECTION SWITCHES															
Type	Gg.	Pole	Pos.	1-4	5-9	10-24	25-49	Type	Gg.	Pole	Pos.	1-4	5-9	10-24	25-49
172C	1	1	11	\$2.33	\$1.98	\$1.78	\$1.69	161C	1	1	4	\$2.12	\$1.80	\$1.82	\$1.54
*173C	1	2	5	2.33	1.98	1.78	1.69	162C	2	2	4	3.00	2.55	2.30	2.19
*174C	1	3	3	2.33	1.98	1.78	1.69	163C	3	3	4	3.92	3.30	2.97	2.82
176C	2	2	11	3.31	2.82	2.54	2.41	164C	4	4	4	4.76	4.05	3.65	3.47
*177C	2	4	5	3.31	2.82	2.54	2.41	165C	5	5	4	5.64	4.80	4.32	4.10
*178C	2	6	3	3.31	2.82	2.54	2.41	No. 12A766. Hamswitch Plate. Type 488 Dial Plate. For 166 C. Series Above. Ea. 12c							
180C	3	3	11	4.23	3.60	3.24	3.08								
*181C	3	6	5	4.23	3.60	3.24	3.08								

### MINIATURE PUSH-BUTTON



Use in test panels, meter circuits and labs or any application requiring a momentary contact switch of this type. Mounts in a single hole 7/8" dia. on panels to 1/4" thick. Mtg. radius is 1 1/8". Mtg. depth 3/8" min. (1011) and 3/4" max. (1016). 500 V. DC. Complete with mtg. hardware.

Specify B-A Stock No. 12C538 and Type When Ordering

Type	Action	1-4	5-9	10-24	25-49	Type	Action	1-4	5-9	10-24	25-49
1011	SPST, N.O.	\$.67	\$.57	\$.51	\$.48	1014	DPST, N.O.	\$.84	\$.72	\$.85	\$.82
1012	SPST, N.C.	.67	.57	.51	.48	1015	DPST, N.C.	.84	.72	.85	.82
1013	SPDT	.77	.66	.59	.56	1016	DPDT	1.02	.87	.78	.74

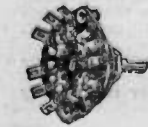
### SWITCH DIAL PLATES

Aluminum figures etched on black background. 1 1/8" OD with 7/8" hole. All are for 1 1/4" base switches with 30° spacing, except those marked \* which are for 1 1/16" base switches with 20° spacing.

Specify B-A No. 12C541 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	456*	1 to 6
373	1 to 3	378	1 to 8	383	Off 1 to 3	388	Off 1 to 8	459*	1 to 9
374	1 to 4	379	1 to 9	384	Off 1 to 4	389	Off 1 to 9	467*	1 to 17
375	1 to 5	380	1 to 10	385	Off 1 to 5	390	Off 1 to 10		
376	1 to 6	381	1 to 11	386	Off 1 to 6	453*	1 to 3	Choice	Each 12c

### CENTRALAB UNIVERSAL ROTARY



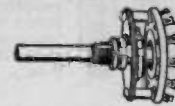
Use as SPST, SPDT, DPST, DPDT, 3PST, 3PDT, 4PST, 4PDT. Non-shorting type 3/8" deep, 2 1/4" shaft. With bar knob. CRL type 1450.

No. 12A533. Your Cost, Each \$1.24

## CENTRALAB SWITCHES

### MINIATURE STEATITE PA2000 SERIES

Small and compact—only 7/8" mtg. radius required! Silver plated spring brass clips and contacts; adjustable stop; 30° indexing; 1/2" spacing between sections; 1 1/8" shaft. Includes 1 1/4" bar knob and mounting hardware. All are non-starting (break before make), except those marked with an asterisk signifying "shorting". Rating—excellent RF characteristics, low inter-capacity. Rated 2 amp at 15 VDC; 150 millamps at 110 VAC.



Specify B-A Stock No. 12C481 and Type When Ordering

Type	Gg.	Pole	Pos.	1-4	5-9	10-24	25-49	Type	Gg.	Pole	Pos.	1-4	5-9	10-24	25-49
*2000	1	1	12	\$2.32	\$1.98	\$1.78	\$1.69	2019	1	6	2	\$2.32	\$1.98	\$1.78	\$1.69
2001	1	1	12	2.32	1.98	1.78	1.69	2021	2	6	5	3.32	2.83	2.55	2.42
*2002	1	2	6	2.32	1.98	1.78	1.69	*2022	3	6	6	4.23	3.60	3.24	3.08
2003	1	2	6	2.32	1.98	1.78	1.69	2023	3	6	6	4.23	3.60	3.24	3.08
*2004	2	2	12	3.32	2.83	2.55	2.42	2025	6	6	12	7.06	6.00	5.40	5.13
2005	2	2	12	3.32	2.83	2.55	2.42	2027	4	8	6	5.09	4.33	3.90	3.71
*2006	1	3	5	2.32	1.98	1.78	1.69	2029	3	9	5	4.23	3.60	3.24	3.08
2007	1	3	5	2.32	1.98	1.78	1.69	2031	2	10	3	3.32	2.83	2.55	2.42
*2008	3	3	12	4.23	3.60	3.24	3.08	2033	5	2	6	6.09	5.18	4.66	4.43
2009	3	3	12	4.23	3.60	3.24	3.08	2035	2	12	2	3.32	2.83	2.55	2.42
*2010	2	4	6	3.32	2.83	2.55	2.42	2037	6	2	6	7.06	6.00	5.40	5.13
2011	2	4	6	3.32	2.83	2.55	2.42	2039	3	15	3	4.59	3.90	3.51	3.33
2013	4	4	12	5.09	4.33	3.90	3.71	2041	3	18	2	4.59	3.90	3.51	3.33
*2014	1	5	3	2.32	1.98	1.78	1.69	*2042	1	1	10	2.12	1.80	1.62	1.54
2015	1	5	3	2.32	1.98	1.78	1.69	2043	1	1	6	2.12	1.80	1.62	1.54
2017	5	5	12	6.09	5.18	4.66	4.43	2045	2	2	6	2.97	2.53	2.28	2.17

### MINIATURE PHENOLIC PA1000 SERIES

Miniature phenolic-insulated switches that meet rigorous commercial or military applications. Clip and contact arrangement assure low inter-circuit capacitance and low contact resistance. Ideal for limited space applications. 30° indexing, adjustable stop 1 1/2 x 1 1/8" dia. Shaft 2 1/4" long. 2 amp @ 15V. DC. 150 MA @ 110 V. AC. Withstand 25 hour salt spray test. With knob, nut, lockwasher. Wt. 3 oz.

Specify B-A Stock No. 12A755 and Type When Ordering. Odd Numbered Switches are Non-Shorting—Even Numbers are Shorting Type

Type	Gg.	Pole	Pos.	1-4	5-9	10-24	25-49	Type	Gg.	Pole	Pos.	1-4	5-9	10-24	25-49
1000	1	1	11	\$1.76	\$1.50	\$1.35	\$1.28	1011	1	4	2	\$1.76	\$1.50	\$1.35	\$1.28
1001	1	1	11	1.76	1.50	1.35	1.28	1012	2	4	5	2.53	2.15	1.94	1.84
1002	1	2	5	1.76	1.50	1.35	1.28	1013	2	4	5	2.53	2.15	1.94	1.84
1003	1	2	5	1.76	1.50	1.35	1.28	1018	2	6	3	2.53	2.15	1.94	1.84
1004	2	2	11	2.53	2.15	1.94	1.84	1019	2	6	3	2.53	2.15	1.94	1.84
1005	2	2	11	2.53	2.15	1.94	1.84	1020	3	6	5	3.18	2.70	2.43	2.31
1006	1	3	3	1.76	1.50	1.35	1.28	1021	3	6	5	3.18	2.70	2.43	2.31
1007	1	3	3	1.76	1.50	1.35	1.28	1024	2	8	2	2.53	2.15	1.94	1.84
1008	3	3	11	3.18	2.70	2.43	2.31	1025	2	8	2	2.53	2.15	1.94	1.84
1009	3	3	11	3.18	2.70	2.43	2.31	1028	3	12	2	3.18	2.70	2.43	2.31
1010	1	4	2	1.76	1.50	1.35	1.28	1029	3	12	2	3.18	2.70	2.43	2.31

### SMALL GENERAL PURPOSE PHENOLIC SWITCHES

High quality laminated phenolic. Voltage breakdown 1000 volts AC—R.M.S. Rating 2 amps @ 15 V. DC. 150 millamps @ 110 V. AC (Make and break, resistive load.) Mts. in single hole. Bushing 3/8"-32 thread, 3/8" long. With mtg. nut and lock washer.



Specify B-A Stk. No. 12A568 and Type When Ordering.

Type 1460: 1 pole, 2 position, shorting. Positive index. SPST or SPDT for phono-radio, tone or sensitivity control.

Type 1461: 1 pole, 3 position, shorting. Positive index. Use as miniature band change, stype tone or sensitivity control, and P.A. channel selector.

Type 1462: 2 pole, 2 position, shorting. Positive index. Use as SPST, SPDT, DPST, DPDT. For meter reversing, P.A. channel, or switching BOTH lines on phono-radio control.

Type 1463: 1 pole, 2 position, non-shorting, spring return index. For meter reversing or inexpensive momentary talk switch on intercom systems.

Type 1464: 2 pole, 2 position, non-shorting. Spring return index. Use as meter switch and momentary line or remote speaker return on intercoms.

Your Choice of Types 1460 thru 1464

1-4, Each. \$1.06 5-9, Each. .90c 10-24, Each. .81c 25-49, Each. .76c

### LEVER ACTION PHENOLIC SWITCHES

Space saving lever switches have many uses: With multiple switching sequences, these units mounted singly or in groups on special plates (listed below), are particularly adaptable to intercoms, PA systems, test instruments, broadcast antenna interchange, speaker selection, etc. All metal parts steel cad. plated. Mts. two 6-32 thread mounting holes on 1 1/2" centers in switch front plate. Rating 2 amp @ 15 V. DC; 150 millamps at 110 V. AC (make and break, resistive load). 30° indexing. Complete with screws and black knob.



Specify B-A Stk. No. 12A720 and Type When Ordering.

Shorting	Non-Shorting	Poles	Posit.	Indexing	1-4	5-9	10-24	25-49
1452	1454	2	3	Positive	\$1.24	\$1.05	\$.95	\$.90
1453	1455	2	3	Spring Return	1.24	1.05	.95	.90
1466	1467	2	3	Posit. & Sp. Return	1.24	1.05	.95	.90
1456	1457	4	2	Spring Return	1.41	1.20	1.08	1.03
1459	1458	4	2	Positive	1.41	1.20	1.08	1.03
	*1475	1	3	Positive	1.24	1.05	.95	.90

\*Primarily replacement part for the ganged switches in tube testers and equip.



## CARLING TOGGLE SWITCHES



### ① AC-DC TOGGLE SWITCHES

1/2" bat type toggle switch with 1/8" stem length. Dia. 1/8" x 32 thread. Has wire leads, all others have lug type terminals. †3/8" Ball Handle.

Stock No.	Mfg. Type	Action	Amperes		1-9 Each	10-99 Each	100 Up Each
			125 V.	250 V.			
12A647	110-73	SPST	6	3	\$.43	\$.39	\$.32
12A648	112-73	SPDT	3	1	.51	.46	.38
12A649	216-73	DPST	3	1	.70	.63	.52
12A650	316-73	DPDT	3	1	.78	.70	.58
12B402	111-16-73*	SPST	6	3	.46	.41	.34
12A403	111-16-22†	SPST	6	3	.48	.43	.36

### ② HEAVY DUTY AC TOGGLE SWITCHES

1/2" bat handle toggle switch. Metal covered bakelite base. Stem 1/8" long, dia. 1/8" x 32 thread. #6-32 binder head screw terminals, all others have solder lugs. \*Center Off. †has 1/8" length bat handle, stem length 1/2" with Neoprene seal. ‡one side momentarily on; other side N.C. §Both sides momentarily on. Center off. UL approved.

Stock No.	Mfg. Type	Action	Amperes		1-9 Each	10-99 Each	100 Up Each
			125 V.	250 V.			
12A651	2FA53-73	SPST	15	10	.48	.43	.36
12A652	2FA54-62-Neo†	SPST	15	10	.64	.54	.48
12A653	2FB53-73	SPDT	15	10	.54	.49	.40
12A654	2FC53-73	SPDT**	15	10	.54	.49	.40
12A655	2GK53-73	DPST	15	10	.70	.66	.54
12A656	2GK54-62-Neo†	DPST	15	10	.98	.88	.76
12A657	2GL53-73	DPDT	15	10	.86	.77	.64
12A658	2GM53-73	DPDT**	15	10	.86	.77	.64
12A659	6FB53-73	DPDT	15	10	.68	.61	.50
12A660	6FC64-73	SPDT§	15	10	.78	.71	.58

### ③ HEAVY DUTY PLASTIC-TOGGLE AC SWITCHES

Miniature in size: toggle 1/2" long x 1/4" dia., stem 1/4" long, 1/8"-32 threaded stem. Requires only 1/2" behind panels. Rated 15 amps at 125 V. and 7 1/2 amps at 250 V. Solder lug terminals. \*Center off. All UL approved. Available with Red, Black, Brown or White toggle. Specify both Stock No. and Color when ordering.

Stock No.	Mfg. Type	Action	1-9	10-99	100 Up
12A663	AA252	SPST	15	7 1/2	.48 .44 .38
12A679	AB252	SPDT	15	7 1/2	.54 .49 .40
12A680	AC252	SPDT*	15	7 1/2	.57 .51 .42

### ④ HI-POWER TOGGLE SWITCH

1/2" dia. stem, 3/8" long 32 threads, 1/2" long bat handle. Bakelite base.

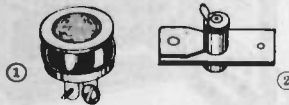
Stock No.	Mfg. Type	1-9	10-99	100 Up	
12A794	600C	BPST	20	10	.70 .63 .52

### ⑤ HEAVY DUTY AC-DC TOGGLE SWITCHES

1/2" toggle length, 1/8" stem length-32 thread. Screw terminals.

Stock No.	Mfg. Type	Action	1-9	10-99	100 Up
12A661	2DK25-73	DPST	12	6	.89 .80 .66
12A662	EK255-73	DPST	15	10	1.49 1.34 1.10

### ① EAGLE FLUSH MOUNT



Momentary push button switch normally open. Ideal for signal bells, lights, buzzers, etc. Has heavy type deep pearl button with a nickel plated outer ring. Will not stick or jam. Has screw terminals. Snap mounts in 5/8" dia. hole. Perfect for mounting on metal boxes, chassis, etc. Depth of shank 1/2". Eagle #188. Wt. 1/3 oz.

Stk. No.	1 to 9	10 to 99	100 Up
12A784	Each .35	.30	.28

### ② EAGLE DOOR SWITCHES

Use anywhere it is required that the opening or closing of a door turn on a light or sound an alarm, buzzer, bell, etc. Type #174—bell rings or light goes on while door is OPEN; #175, while door is CLOSED; #176, while door is opening or closing. Wt. 1 oz.

Stk. No.	Type	Circuit	1-9	10-99
12A752	174	Closed	.65	.61
12A753	175	Open	.65	.61
12A754	176	Make & Break	.65	.61

### Acro "D" Momentary P. B. Nut Switches

S. P. precision switches using Acro rolling spring double-break principle. Ideal for DC loads! U. L. approved for 12 A./125 V.; 6 A./250 V. or 1/2 H.P. Bakelite plunger requires 10 oz. operating force. 1/8" dia. x 1/2" long. No. 12A812. Type 3D05-5P-N.O. Ea. \$1.75 10, Ea. \$1.58 No. 12A813. Type 3DC5-5P-N.C. Ea. \$1.75 10, Ea. \$1.58

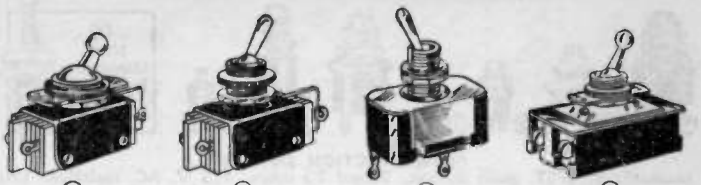
### REAR SEAT SPEAKER SWITCH KIT

Complete assembly for switching between dual speakers such as auto rear seat and front seat speakers; TV, radio, PA remote speaker installations; etc. Permits operation of either speaker separately or both together. Kit comes complete with SP-3 Pos. Switch, bracket, dial, knob and hardware.

No. 12A414. Centralab PK-300. EACH	88c
No. 12B583. Switch Only, Centralab 1483. Net Each	73c
No. 14B874. Wired Fader Control Kit. For intermixing front and rear speakers. Net Each	\$1.39

Quantity Users—Contact B-A Industrial Dept. BA 1-4266

## ARROW—HART & HEGEMAN SWITCHES



### TOGGLE SWITCHES

Underwriters Approved: For radio sets, small motors, lamps, meters, etc. Rated at 3-amp, 125-volt; 1-amp, 250-volt. Laminated bakelite or fibre insulation. Solder lug connections. 1/8" stem length, 1/8" x 32 thread.

Stock No.	Mfg. No.	Type	1-9 10-99 100		
			Each	Each	& Up
12A770	20994BF	SPST†	.52	.43	.36
12A586*	21615BD	SPST†	.68	.55	.46
12A772	21350-B	SPDT	.68	.55	.46
12A774	20902AM	DPST	.96	.79	.66
12A776	20905Z	DPDT	1.10	.91	.75

\*Shank 1-in. long. †SPST rated 3A 250 V AC-DC.

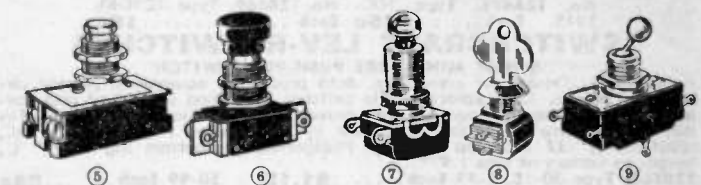
Stock No.	Mfg. No.	Type	1-9 10-99 100		
			Each	Each	& Up
12A771	20994NV	SPST†	.54	.43	.36
12A773	21350CF	SPDT	.68	.55	.46
12A775	20902AJ	DPST	.96	.79	.66
12A777	20905AN	DPDT	1.10	.91	.75

### ③ MINIATURE HI-POWER H&H TOGGLE SWITCHES

Rated 10 amps at 250 V. AC; 15 amps at 125 V. AC; 3/4 HP 115-230 V. AC. Solder-type terminals. Small overall size. Bakelite case 1 1/8" long, 5/8" wide, 1 1/8" high. Shank 1/8" dia., 1/2" long. \*Center off.

Stock No.	Mfg. No.	Type	1-9 10-99 100		
			Each	Each	& Up
12A1640	82601	SPST	.52	.43	.36
12A1641	82603	*SPDT	.60	.49	.41
12A1668	82605	SPDT	.60	.49	.41
12A1666	82607	DPST	.81	.67	.56
12A1667	82609	*DPDT	.96	.79	.66

## ARROW—HART & HEGEMAN SWITCHES



### PUSH-BUTTON SWITCHES TWO-CIRCUIT MOMENTARY

① Laminated construction. Reverses circuit when pushed. Slow make-break contacts. Rated 1 amp at 125 V. AC. Bushing 1/8" dia., 1/8" long. Solder lugs. With 5/8" dia. concave snap-on bakelite button. With mtg. nut.

Stk. No.	H&H Type	1-9	10-99	100 Up
12A723	3392A—Red	.90	.75	.62
12A724	3392A—Black	.90	.75	.62

### ⑦ SINGLE POLE—MOMENTARY

Molded bakelite. Rated—3 A. 120 V. AC, 1/10th HP 120 V. AC. For use in any application where a momentary opening or closing of a circuit is required. Base is 1/8" long x 1/8" depth behind panel. Mtg. shank 1/8" L x 1/8" dia., metal button 1/8" dia. Solder lugs. \*Has black phenolic snap-on button. †Has red button. N. C. is normally closed, N. O. is normally open.

Stk. No.	H&H Type	1-9	10-99	100 up
12A897	80511E-N.O.	.39	.34	.29
12A898	80511-N.C.	.39	.34	.29
12A746	*80541-N.C.	.74	.61	.51
12A747	*80541E-N.C.	.74	.61	.51
12A749	*80541E-N.O.	.74	.61	.51
12A750	*80541E-N.O.	.74	.61	.51

### SLIDE SWITCH PLATES

For slide type switches with 1/8" mtg. hole centers. Antique finish. Size 2 1/2 x 1 1/8". No. 17A1017. On-Off. Each... 21c 10, Each... 18c

### ③ BAT TOGGLE SWITCHES

3A. 250V. AC - 6A. 125V. AC. UL approved. 1/6 HP 120-240 V. AC. Solder term., bakelite case 1 1/8" L. 5/8" W, 1 1/8" H., shank 1/8" dia., 1/2" L. Bat handle. Complete with nuts. \*Center off.

Stock No.	Mfg. No.	Type	1-9 10-99 100		
			Each	Each	& Up
12A645	83001	SPST	.45	.38	.31
12A646	83004	*SPDT	.49	.41	.34
12A757	83007	SPDT	.49	.41	.34
12A758	83025	DPST	.66	.55	.45
12A759	83028	*DPDT	.73	.61	.51

### ④ EXTRA HEAVY DUTY TOGGLE SWITCH

For heavy current circuits such as transmitters, amplifiers, motors, etc. "Fast-break" type contacts. Rated 10 amps at 125 volts. Size, 2" long, 1" high, 1 1/8" wide, 3/4" diameter shank.

12A780	80638	DPDT	\$3.70	\$3.06	\$2.55
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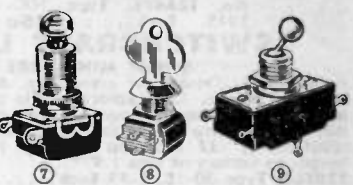
### HI-POWER SWITCHES

For motors, appliances, etc. Rated 12 amps at 125 volts; 6 amps at 250 volts. Screw terminals. Bakelite case; Shank 1/8" dia., 1/8" long (toggle), 1/8" long (push button). UL approved.

Stock No.	Mfg. No.	Type	1-9 10-99 100		
			Each	Each	& Up
12B582	80607	SPST	1.01	.83	.69
12A779	80600	DPST	1.01	.83	.69

Stock No.	Mfg. No.	Type	1-9 10-99 100		
			Each	Each	& Up
12A1640	82601	SPST	.52	.43	.36
12A1641	82603	*SPDT	.60	.49	.41
12A1668	82605	SPDT	.60	.49	.41
12A1666	82607	DPST	.81	.67	.56
12A1667	82609	*DPDT	.96	.79	.66

## ARROW—HART & HEGEMAN SWITCHES



### ⑧ LOCK SWITCH

Turns on with key. SPST. 3 amps at 250 V., 6 amps at 125 V. AC. Single hole mtg. Stem lgth. 1/8", dia. 1/8". Solder lug contacts UL approved. With one key.

Stk. No.	H&H Type	1-9	10-99	100 Up
12A587	26561-L	1.18	.95	.84
12B577	Ex. Key	.16	.15	.14

### ③ 3-POSITION SWITCHES

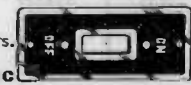
U/L Approved. Dimensions behind panel only 1 1/2" long, 5/8" wide, and 1 1/8" deep. Mtg. shank 1/8" long, dia. 1/8". Rated 3 amps at 250 volts, 6 amps at 125 volts, AC or DC, 6 solder lug contacts. DPDT-Center-Off. \*With Ball Handle. D With Bat.

12A588	82024*	1.58	1.30	1.09
12B581	82024D	1.58	1.30	1.09

### TOGGLE SWITCH PLATES



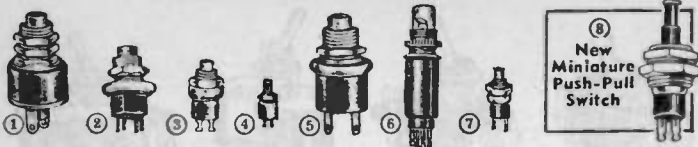
(A) For toggle switches. N.P. steel. No. 12A785. Ea. .3c 10 For .20c (B) For toggle switches. Etched markings, polished aluminum with black background. 1 1/8" dia., 1/8" hole. No. 17A1013. Off-On. Each... 39c 10 Lots, Each... 36c





# Switches And Switch Timers

## GRAYHILL SWITCHES



① **SNAP-ACTION SWITCH**  
Momentary, SPST, push button. Rated 10 amps, 115 V. AC, resistive. Life approx. 50,000 operations.  $\frac{1}{8}$ "-32 threaded bushing.  $\frac{7}{8}$ " O.D.,  $1\frac{1}{4}$ " overall length including solder type terminals.

12A689. #2201. N.O. Red. 1-49, Ea. . . . \$1.85 50-99, Ea. . . . \$1.39  
12A690. #2202. N.C. Black. 1-49, Ea. . . . \$1.85 50-99, Ea. . . . \$1.39

② **DOUBLE POLE SWITCH**  
Silent action, normally open, momentary DPST push button switch. Rated  $\frac{1}{2}$  amp 115 V. AC, resistive. Life over 100,000 operations. Button and housing molded phenolic.  $\frac{1}{8}$ " O.D.,  $1\frac{1}{4}$ " overall length, incl. solder terminals.

12A685. Type 35-1. Red. 1-49, Ea. . . . \$1.20 50-99, Ea. . . . 90c

③ **MINIATURE PUSH BUTTON SWITCH**  
Silent action, momentary, normally open SPST rated  $\frac{1}{4}$  amps, 115 V. AC, resistive. Life  $\frac{1}{2}$  million operations. Button and housing molded phenolic.  $\frac{3}{8}$ "-32 threaded bushing,  $\frac{1}{2}$ " O.D.,  $1\frac{1}{4}$ " overall length including solder terminals.

12A691. Type 23-1. Red. 1-49, Ea. . . . 85c 50-99, Ea. . . . 64c

④ **ULTRA-MINIATURE SWITCH**  
Silent action, momentary, normally open, SPST push button switch. Rated 1/10 amps, 115 V. AC resistive. Life 1 million operations. Button and base molded phenolic.  $\frac{1}{4}$ " O.D.,  $\frac{1}{4}$ " overall length including solder terminals.

12B670. Type 39-1. Red. 1-49, Ea. . . . \$1.00 50-99, Ea. . . . 75c

⑤ **SILENT ACTION SWITCH**  
Momentary, SPST, push button. Rated  $\frac{1}{2}$  amp, 115 V. AC, resistive for 800,000 operations, or 1 amp for 100,000 operations.  $\frac{1}{8}$ "-32 threaded bushing.  $\frac{1}{8}$ " O.D.,  $1\frac{1}{4}$ " overall length including solder type terminals.

12A687. #4001. N.O. Red. 1-49, Ea. . . . 70c 50-99, Ea. . . . 53c  
12A688. #4002. N.C. Black. 1-49, Ea. . . . 70c 50-99, Ea. . . . 53c

⑥ **LIGHTED PUSH BUTTON SWITCH**  
For use wherever switches and indicator lights are used together. Independent lamp and switch circuits. Silent action SPST, momentary, normally open. Life 500,000 operations at 1 amp 115 V. AC, resistive. Clear button with NE-2E neon lamp.  $\frac{1}{8}$ " mfg. hole required. Solder terminals. Overall length including terminal  $1\frac{3}{4}$ ".

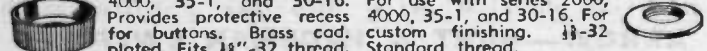
12B667. Type 40-1. 1-49, Ea. . . . \$2.00 50-99, Ea. . . . \$1.50

⑦ **SUB-MINIATURE SWITCH**  
Silent action, momentary SPST push button. Rated @ 1/10 amp, 115 V. AC, resistive. Life  $\frac{1}{2}$  million operations. Button and housing molded phenolic.  $\frac{1}{4}$ "-32 threaded bushing,  $\frac{3}{8}$ " O.D.,  $\frac{1}{4}$ " overall length including solder terminals.

12A683. #30-1. N.O. Red. 1-49, Ea. . . . 95c 50-99, Ea. . . . 72c  
12A684. #30-2. N.C. Black. 1-49, Ea. . . . 95c 50-99, Ea. . . . 72c

**BUTTON GUARD**  
For use with series 2000, 4000, 35-1, and 30-16. Provides protective recess for buttons. Brass cad. plated. Fits  $\frac{1}{8}$ "-32 thread. No. 12A686. Type 10C-1015. Each . . . 25c

**DECORATIVE MOUNTING NUT**  
For use with series 2000, 4000, 35-1, and 30-16. For custom finishing.  $\frac{1}{8}$ "-32 threaded. No. 12B669. Type 7C1040. Each . . . 15c



## SWITCHCRAFT LEV-R SWITCHES

### NEW MINIATURE PUSH-PULL SWITCH

Applications: On-off for computers, data processing equipment, printed circuit test panels. Can replace toggle switches, providing space and cost savings. SPST, normally open. Button travel .141". Actuating force  $2\frac{1}{2}$ -4 $\frac{1}{2}$  lbs. Return force  $1\frac{1}{4}$ -3 lbs. Mtg. hole  $\frac{1}{2}$ " dia. Rated 1 amp, 115 V. AC, resistive.  $\frac{1}{8}$ "-32 threaded bushing. Plunger-tap to bottom lug 1.492" L, length to bottom of lugs 1.492".

12B668. Type 30-16. 1-49 Each. . . . \$1.15 50-99 Each. . . . 86c

Compact lever-action switches. Silver contacts rated at 3 amps, 120 volts, non-inductive load. Length  $3\frac{1}{8}$ "; width  $\frac{3}{8}$ ". Require  $\frac{1}{8}$ " mfg. hole. \*3 position type, others are 2 position.

Spring Stock No.	Return Type	Locking Stock No.	Type	Action	1 to 49 Each	50-99 Each	100 Up Each
12A791	3003	12A792	3003L	SPDT	\$1.32	\$1.13	\$1.01
12A429	3006	12A435	3006L	DPDT	1.62	1.38	1.24
12A793	*3033	12A795	*3033L	SPDT, NO	1.47	1.25	1.13
12A796	*3036	12A797	*3036L	DP 2-Ckt.	1.71	1.45	1.31
12A431	*3037	12A437	*3037L	DPDT, NO	1.73	1.48	1.33

### (E) INTERCOM SWITCH TYPE 3037T

12A439. 1 to 49, Ea. . . \$1.73; 50-99, Ea. . . \$1.48; 100 Up, Ea. . . \$1.33

### TELEVER SWITCHES

Telephone type Lever Switch. Requires single mounting hole  $\frac{1}{8}$ " dia. Long bushing for mounting in panels to  $\frac{1}{4}$ " thick. Depth behind panel  $3\frac{3}{8}$ ". Silver contacts, paper base phenolic insulation. 3 amps, 120 volts DC. \*3 position.

Spring Stock No.	Return Type	Locking Stock No.	Type	Action	1 to 49 Each	50-99 Each	100 Up Each
12A761	16006	12A762	16006L	DPDT	\$2.94	\$2.50	\$2.25
12A763	16036	12A764	16036L	SPDT	2.94	2.50	2.25

### SWITCHCRAFT BUTTON SWITCHES

Momentary type. Ideal for use where space is limited. 200 Series mounts in  $\frac{3}{8}$ " dia. hole. Sleeve  $\frac{3}{8}$ " long. 3 amp, 115 volts DC. Series 900, provides behind panel mounting in  $\frac{1}{4}$ " dia. hole, 250 mils, non-inductive load, AC Type 951, Tiny Switch, similar to 200 Series, but mounts in  $\frac{1}{4}$ " dia. hole. \*Black Button. †Red Button.

Fig.	Stock No.	Type	Action	1-49 Ea.	50-99 Ea.	100 Up, Ea.
(A)	12A798	*201	SPST-NO	53c	44c	41c
(A)	12A787	*202	BPST-NC	53c	44c	41c
(A)	12A788	*203	SPDT	59c	49c	45c
(B)	12A789	*903	SPDT	88c	75c	68c
(B)	12A790	*913	SPDT	88c	75c	68c
(B)	12A760	*951	SPST-NO	53c	45c	41c

## INTERMATIC AUTOMATIC TIMERS

MFG. LIST \$11.95

\$7.97



"TIME-ALL"  
MAKES ANY APPLIANCE  
AUTOMATIC!

CLOCK-TIMER  
COMBINATION ELECTRIC CLOCK  
AND SIGNAL TIMER

Turns appliances, fans, lights, 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 1650 watts. Gray plastic case only 5x4x2". Mounts on wall if desired. UL approved. Wt. 3 lbs. Mfg. List \$11.95. No. 37A315. Time-All Model A211. Net Each . . . \$7.97

Not only tells time, but also is a dependable automatic timer for controlling electric fans and heaters, TV sets, lamps, radios, etc. Turns appliance on automatically for periods of 15 minutes to 5 $\frac{1}{2}$  hours . . . turns off automatically. Especially suited for use with tape recorders in recording favorite programs while you are away. Capacity 15 amps, 1650 watts. No installation—just plug it in, set and forget. Spruce green Plaskon case, 4 $\frac{3}{4}$ x4 $\frac{1}{2}$ x2 $\frac{1}{4}$ ". 6 ft. heavy duty cord for 105-125 volts AC only. UL. Wt. 2 lbs. Mfg. List \$11.95. No. 37B124. Model A401. Net Ea., Incl. Fed. Tax. . . \$9.67

## INTERMATIC MODEL T101 UTILITY TIMER ALL-PURPOSE TIME SWITCH

FOR DEPENDABLE AUTOMATIC  
ON-OFF ELECTRIC CONTROL

OF:

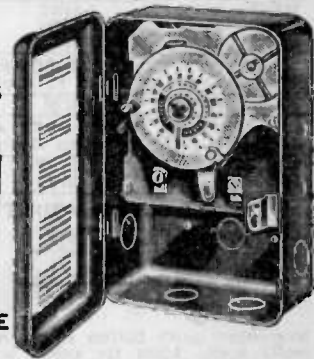
- APPLIANCES • LIGHTS • FANS
- MUSIC SYSTEMS • ETC.

HEAVY-DUTY  
UP TO 35 AMPS  
(4375 WATTS)  
125 VOLTS AC

MFG. LIST \$11.95

\$7.77

HANDLES EVERY TIME  
NEED AROUND THE HOME  
OR BUSINESS



Automatic switch, powered by 115 V. 60 cy. AC synchronous clock, repeats timing cycle each 24 hours. Manual switch allows independent operation when desired. Comes with one set of adjustable on-off trippers; others easily added without removing dial, for up to 11 on-off operations per day. Minimum time between settings, 1 hour. Heavy duty 35 amp switch contacts will handle in-rush currents up to 8 times normal rating.

Encased in gray steel cabinet with hinged door and wiring knockouts. Size 7 $\frac{3}{4}$ " H, 5" W, 3" D. For 115 V. 60 cy. AC. Wt. 4 lbs. No. 37B350. Mfg. List \$11.95. Net Each . . . \$7.77

Type T103. Same as above but Double Pole Single Throw. No. 37B351. Mfg. List \$13.95. Net Each . . . \$9.07

Type 107TBA. Set of "On and Off" Trippers for Intermatic switches. No. 37A321. Mfg. List 40c. Net Per Set. . . 26c

## LEVITON APPLIANCE SWITCHES



① **SINGLE POLE ROTARY**  
For lamp and appliance repairs SPST switch. Rated 3-amp., 125-volt; 1-amp. 250-volt. Has  $\frac{1}{8}$ " shank, brown bakelite knob, 6" wire leads. No. 12A725. No. 574. Each . . . 19c 10 Lots, Each . . . 16c

② **3 POSITION ROTARY**  
For 3-light floor and desk lamps. Rated 3 amps at 125 volts. Bakelite case 1" dia. by  $\frac{1}{8}$ " high. Shank  $\frac{3}{8}$ " dia. by  $\frac{3}{8}$ " long. Metal knob. 6" wire leads. No. 12B578. No. 582. Each . . . 43c 10 Lots, Each . . . 36c

③ **SINGLE POLE PUSH-BUTTON**  
SPST. Rated 3 amp. at 125 volts. Bakelite case 1" long x  $\frac{5}{8}$ " wide x  $\frac{1}{8}$ " high. Shank,  $\frac{3}{8}$ " dia. by  $\frac{1}{4}$ " long. 6" wire leads. Plastic  $\frac{1}{4}$ " dia. push button. No. 12B579. No. 575. Each . . . 22c 10 Lots, Each . . . 19c

④ **FLUORESCENT LAMP STARTER SWITCH**  
For use with single 15 to 40 W. lamps. Eliminates starter from circuit. Measures 1 $\frac{1}{4}$ " dia. by  $\frac{3}{4}$ " high. Shank  $\frac{3}{8}$ " dia. by  $\frac{1}{4}$ ". 6" wire leads. Bakelite push button. No. 12B580. No. 382. Each . . . 43c 10 Lots, Each . . . 38c

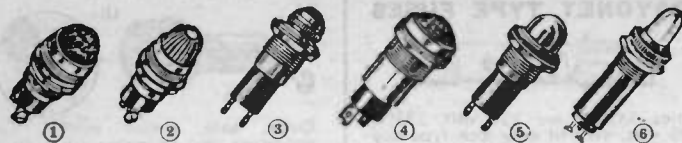






# Panel Lights, Sockets

## DIALCO PILOT LIGHT ASSEMBLIES



① Oil-Tight Dialco #103-3101 heavy duty industrial type. Gasket sealed against oil, water or dust. Front lamp replacement. 1" hole mtg. Chrome finish. Uses 56, 115 Volt bulbs. UL listed. Faceted lens for 180° viewing. Less bulb. Specify red, green, amber or clear.  
12A974. Ea. \$2.20 10 Ea. \$1.98

② Dialco Oil-Tight #125-408 for 1 1/4" mtg. hole. Built-in resistor for NE51 Neon lamp on 115 V. UL listed. Gasket sealed against oil, water, dust. 2 1/8" long. Fluted lens, screw terminals, front removable bulb. Less lamp. Specify, red, amber, yellow or clear.  
12A975. Ea. \$1.94 10 Ea. \$1.74

③ Dialco #81410 1 1/2" mtg. For low voltage miniature bayonet lamps. UL listed. Aviation type, meets mil specs. Smooth 1/2" jewel. Front panel removable bulb. 2 1/4" long for panels up to 3/8". Solder terminals, less lamp. Specify color, red, green, amber or white.  
No. 12A825. Ea. 1.19 10 Ea. 1.07

④ Dialco 812210. For low voltage miniature bayonet lamps. Bulb replaceable from the front. 2 1/4" long, requires 1 1/2" mounting hole for panels up to 3/8" thick. Solder terminals. Smooth jewel with 1/2" nickel plated brass mounting. Specify color: Red, Green, Amber, White or Blue. Less lamp.  
No. 12A885. Net Each. 56c

⑤ Dialco #313101 for 1" mtg. hole. Uses 56, 115 Volt bulbs. Faceted 1" lens. Chrome plated holder. UL listed. 2 1/2" length. Less lamp. Specify color, red, green, amber or clear.  
12A1165. Ea. \$1.03 10 Ea. .93c

⑥ Dialco #95408 popular dome lens. 1 1/2" mtg., built-in resistor for using NE51 Neon bulb on 105-125 V. Lgh. 2 1/8". UL listed. Less lamp. Specify, red, amber, white or clear.  
No. 12A666. Ea. .97c 10 Ea. .87c

Dialco #95408H for high brightness NE51H Neon bulbs. Produces six times more light than regular NE51. Description same as 95408 above. Less lamp. Specify color, red, amber, white or clear.  
No. 12A972. Ea. .97c 10 Ea. .87c

Replacement plastic caps for 95408 and 95408H. Specify color, red, amber, white or clear.  
No. 12A973. Each. .15c

⑦ Dialco 952208. Enclosed type for use with NE51 and NE51H miniature bayonet neon bulbs. Built-in resistor permits use on 115-120 volts. 1/2" wideview plastic dome lens. Bakelite body, solder terminals. Length 2 1/8" requires 1 1/2" mounting hole. UL listed. Less bulb. Specify color: Red, Amber, White or Clear.  
No. 12A886. For NE51 Bulb.  
No. 12A887. For NE51H high brightness bulb.  
CHOICE, NET EACH. 65c

⑧ Dialco #249-7841 Dotalites with permanent built-in non-replaceable neon NE-2E lamps. Stovepipe lens, two insulated terminals. Conforms to mil specs. Mounts in 3/8" hole. 1 1/8" long, 1/2" O.D. Has built-in 100K resistor for use on 105-125 volts. Specify color: Red, Yellow, White or Clear.  
No. 12A896. Each Net. \$1.34



Sub Miniature Series. Uses tiny flange base bulb No. 327 and 328. Bulbs are front replaceable. Has screw out dome type lens. Overall length 1 3/8". Two solder terminals. Specify Red, Green, Amber or White.

Dialco 101-5030. Front mtg. type, requires 1 1/2" hole.  
12A977. Ea. \$1.24 10 Ea. \$1.12

Dialco 101-3830. Back mtg. type, requires 1 1/2" hole.  
12A978. Ea. \$1.24 10 Ea. \$1.12

DIALCO SERIES 75. Has 1" faceted jewel. Candelabra screw base socket for 115 V. lamps is detachable from rear. Mounts in 1" hole. Specify color, red, green or amber.  
12A1164. Each. 70c 10 Each. 63c

DIALCO SERIES 810. Has 1/2" faceted jewel, removable from front for easy access to bulb. Mounts in 1 1/2" hole. Specify color, red, green or amber.  
12A1160. Min. screw socket. .32c  
12A1161. Min. bayonet socket. .32c

DIALCO SERIES 510-710. Economical angle bracket assemblies. With 1/2" convex jewel. Mount in 1/2" hole. Bracket held by threaded shank of lens holder. Bulb accessible from rear. Specify color, red, green or amber.  
No. 12A1156. Miniature screw socket. .21c

No. 12A1157. Miniature bayonet socket. .21c

For 110-Volt, Type S6 Lamp 3/4" jewel in bracket like above. Mounts in 1 1/16" hole. Candelabra socket. Specify Red, Green, Amber.  
12A1158. Net Each. .53c  
Dialco 80901. Attractive torpedo wide-view lens mounted in one inch nickel plated screw cap. For use with S6 screw base candelabra 115 volt lamp, installed from the front. UL approved. Side screw terminals. Length behind panel 2", mounts in 1" hole. Specify color: Red, Green or Amber.  
No. 12A979. \$1.16 10 Ea. 94c

### SPECIAL MINIATURE SOCKETS



For clip or bracket attachment to dial, panel, etc. Fig. E not illustrated, same as Fig. D but with bracket down.

### MINIATURE SCREW BASE

No.	Fig.	Each	10 For
12A1142	A	9c	74c
12A1143	B	9c	74c
12A1146	C	9c	74c
12A1144	D	9c	74c
12A1145	E	9c	74c

### MINIATURE BAYONET BASE

12A1152	A	9c	74c
12A1153	B	9c	74c
12A1147	C	9c	74c
12A1150	D	9c	74c
12A1151	E	9c	74c

### 110 V. CANDELABRA SCREW BASE

12A831	A	11c	99c
12A832	B	11c	99c
12A833	C	10c	89c
12A1154	D	11c	99c
12A1155	E	11c	99c

### SURFACE MTG. SOCKETS

BAKELITE SCREW BASE  
For miniature base lamps.  
No. 20A343. Ea. .11c  
For candelabra base lamps.  
No. 20A342. Ea. .11c

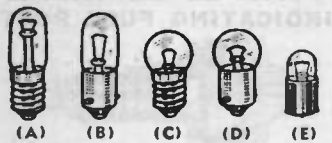
BAKELITE CLEAT RECEPTACLE  
For standard screw base lamps.  
No. 20A341. Ea. .16c

### PILOT LIGHT JEWELS

All purpose smooth jewel lenses. Mount with nut in panels 3/8" thick. Specify color, red, green or amber.

No.	Size	Mtg. Hole	Net Ea.
12A829	3/4"	1 1/8"	26c
12A1159	1/2"	1 1/8"	14c
12A830	1 1/4"	1 1/8"	17c

### MINIATURE GE LAMPS



(A) Tubular—Min. Screw Base

Cat. No.	Mazda No.	Volts	Amps	Each	YOUR COST 10 For
16A153	40	6.3	0.15	\$.15	\$0.92
16A151	41	2.5	0.50	.15	.92
16A155	46	6.3	0.25	.15	.92
16A156	48	2.	0.06	.15	.92

(B) Tubular—Min. Bayonet Base

16A158	43	2.5	0.50	.15	.92
16A159	44	6.3	0.25	.15	.92
16A160	49	2.	0.06	.15	.92
16A161	47	6.3	0.15	.15	.92
16B134	313	28.	.17	.23	2.14
16A584	1490	3.2	0.16	.17	1.04
16B154	1815	12.	0.20	.20	1.22
16B135	1819	28.	.04	.30	2.75
16A210	1829	28.	.07	.35	2.14
16C177	1847	12.	0.5	.20	1.22
16C178	1891	12.	.24	.17	1.04

(C) Round—Min. Screw Base

16A165	50	6.8	0.20	.15	.92
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(D) Round—Min. Bayonet Base

16A166	51	6.8	0.20	.15	.92
16B138	53	12	1CP	.15	.92
16A167	55	6.8	0.40	.15	.92
16B139	57	14	2CP	.15	.92

(E) Sub-Min Flange Base

16C180	327	28.	.08	.90	5.50
16C179	328	6.	.2	.70	4.28

Flashlight Bulbs

16A163	14	2.5	0.30	.17	1.04
16A465	PR2	2.4	0.50	.20	1.22
16B137	PR3	3.57	0.50	.20	1.22
16A171	222	2.2	0.25	.17	1.04
16A149	407	FLASHER		.20	1.22

Note: Deduct 10% from above 10 Lot prices by buying 100 or more of a type either Pilot or Flashlight bulbs.

### G-E NEON LAMPS



Standard Screw Base  
Clear gloss neon filled glow lamps. Have built-in resistor. For 110-125 volt AC or DC.

No.	Type	Watts	Each	10@Ea.
16A143	NE30	1	\$1.11	\$0.94
16A142	NE34	2	1.68	1.45
16A141	NE40	3	2.52	2.12

Candelabra Screw Base  
16A145 NE45 1/4 .79 .66

Double Contact Candelabra Bay. Base Resistorless Type  
16A147 NE32 1 1.11 .94  
16A148 NE48 1/4 .65 .55

Miniature Bayonet Base Type  
Requires 200 M ohms for NE51 and 56 M ohms for NE51H high-brightness type to use on 105-125 volts.  
Used extensively in neon panel indicators.

16B170	NE51	1/25	.20	.18
16A150	NE51H		.23	.19

### NE2 1/25 Watt Neon

Unbored, with 2 wire leads. Bulb is 1/4" dia. 1 1/8" long. Requires 200,000 ohm series resistor for 105-125 V. operation.

No. 16A140. Each. 10c 10 For. 88c

### S6 Candelabra Base

110-120 V. Bulb  
6 watts, clear glass, candelabra base. For indicator and other needs.  
16A168. 10 Net Each. 21c Lots 19c

100 Lots, Each. .17c

### DRAKE NEON INDICATORS



Panel Type Drake HR117. Attractive, inexpensive indicator assemblies for many applications in radio, hi-fi, electronics equipment, appliances, toys, etc. Mounts in 1/2" hole by means of a snap-in plug. Has leads for direct connection to 110-125 volt AC-DC. Assembly is complete with high brightness type long life neon bulb and built-in limiting resistor. Specify choice of color—Red, Clear.  
No. 12A993 1-9 Each. 37c 10-49 Each. 33c

Drake No. 110-25 Flushlite. For use on 110-125 volts AC or DC. Special one piece body and translucent dome construction. Mounts with two screws or rivets, either on front panel or through panel from the rear. Mtg. ctrs. 1 1/2". Base, 3/8" wide, 1 1/8" long. Ideal for line failure indicators or regular "on" indicators on instruments, automation equipment, office machines, computers, portable appliances, freezers, and many others. Specify choice of color—Red or Milk White.  
No. 12A994 1-9 Each. 45c 10-49 Each. 40c

Drake Type 105 Post-Life. Low cost, attractive, long life indicator units. One piece body and Jewel of polystyrene. Mounts in 1/2" hole. Extends 3/4" in front of panel and 1 1/8" behind. For AC or DC volt use, has built-in resistor and high brightness neon bulb. Easy to install. Specify Colorless or Red.  
No. 12A995. Each. 65c 10-49. 58c



# Coax Cable, Connectors

## AMPHENOL COAX CONNECTORS



\*Indicates connector with female end. Mates with all other connectors not so marked in same series.

## UHF SINGLE CONTACT CONNECTORS

Fig.	Stock No.	Amphenol No.	Military No.	Description	Used With Cable No.	1-9 Each	10-49 Each
1	18A1122	83-18P	PL-259	Plug	8, 9, 10, 11, 12	\$0.73	\$0.61
2	18A1124	83-1R	SO-239*	Recept.		.75	.63
3	18A1125	83-1AP	M-359*	Right Angle		1.69	1.41
6	18A1128	83-1F	PL-274*	Feed thru Junction		1.98	1.65
4	18A1126	83-1J	PL-258*	Adaptor		1.15	.96
1	18A1220	83-1SPN	PL-269A	Plug	8, 9, 10, 11	1.00	.83
5	18A1127	83-1T	M-358*	Tee		2.64	2.20
2	18A1145	83-2R	SO265*	Recept. Twin		2.38	1.98
1	18A1146	83-2SP	PL285*	Plug, Twin	57, 130	3.53	2.94
1	18A1218	83-776	UG203U	Plug	55, 59, 62, 71	1.13	.94
16	18A1273	83-850		Solderless Plug	11	1.38	1.15
16	18A1274	83-851		Solderless Plug	8, 9, 11, 58, 59	1.20	1.00
	18A1219	83-1AC		Cap-Chain		.56	.46
7	18A1129	83-1H	M-360	.345 ID Hood	8, 9, 11, 65	.27	.22
8	18B148	83-168	UG176U	.255 ID Reducer	59, 62, 71	.20	.17
8	18B149	83-185	UG175U	.207 ID Reducer	58	.20	.17
7	18A1217	83-765	UG177U	.155 Hood	29, 55, 58	.31	.26
1	18A1102	83-750	UG111U	Plug	59, 62, 71	1.00	.83

## TYPE "N" SERIES CONNECTORS

20	18A1104	82-86	UG18B/U	Plug	5, 6, 21	\$2.15	\$1.79
20	18A1105	82-203	UG18C/U	Plug	5, 6, 21	2.69	2.24
20	18A1231	82-61	UG21B/U	Plug	8, 9, 10	1.91	1.59
20	18A1106	82-202	UG21D/U	Plug	8, 9, 10	2.58	2.15
11	18A1107	82-62	UG22B/U*	Panel Jack	8, 9, 10	1.80	1.50
12	18A1269	82-63	UG23B/U*	Jack	8, 9, 10	1.75	1.46
13	18A1108	82-64	UG27A/U*	Angle Adaptor		3.48	2.89
13	18A1270	82-98	UG27B/U*	Angle Adaptor		3.80	3.00
13	18A1109	82-213	UG27C/U*	Angle Adaptor		4.42	3.68
15	18A1110	82-99	UG28A/U*	Tee		3.89	3.24
2	18A1230	82-24	UG58U*	Recept.		1.22	1.02
2	18A1112	82-97	UG58A/U*	Recept.		1.24	1.00
20	18A1113	82-84	UG84A/U	Plug	11, 12, 13	2.24	1.87
11	18A1114	82-90	UG86A/U*	Panel Jack	11, 12, 13	2.86	2.39
14	18A1271	82-101	UG29B/U*	Adaptor	"N" Series	1.98	1.65
17	18A1275	82-100	UG57B/U*	Adaptor	"N" Series	2.86	2.39
15	18A1272	82-102	UG107B/U*	Tee		4.28	3.57
19	18A1115	82-104	UG167A/U	Plug	17, 18	5.46	4.55
19	18A1117	82-312	UG1185/U*	Plug Captivated	8, 9, 10, 115	2.51	2.09
2	18A1118	82-313	UG1186/U*	Jack Captivated	8, 9, 10, 115	2.15	1.79
11	18A1119	82-314	UG1187U*	Panel Jack	8, 9, 10, 115	2.29	1.91
1	18A1221	83-225P	UG1188U*	2-Cond. Plug	22U	1.22	1.00
2	18A1222	83-22R	UG103U*	2-Cond. Recept.	22U	1.00	.83

## TYPE "BNC" CONNECTORS

9	18A1223	31-002	UG88U	Plug	55, 58	\$1.11	\$0.93
9	18A1120	31-018	UG88B/U	Plug	55, 58	1.18	.98
10	18A1228	31-005	UG89U*	Jack	55, 58	1.20	1.00
18	18A1121	31-830	UG201U	"N" to "BNC"		2.66	2.22
9	18A1225	31-012	UG260U	Plug	59, 62, 71	1.18	.98
9	18A1123	31-212	UG260B/U	Plug	59, 62, 71	1.49	1.24
10	18A1130	31-015	UG261U*	Jack	59, 62, 71	1.24	1.04
11	18A1229	31-011	UG262U*	Panel Jack	59, 62, 71	1.29	1.07
15	18A1131	31-008	UG274U*	Tee		2.82	2.35
11	18A1224	31-003	UG290U*	Recept.		1.02	.85
11	18A1132	31-203	UG280A/U*	Recept.		1.15	.96
11	18A1227	31-001	UG291U*	Panel Jack	55, 58	1.27	1.05
17	18A1134	31-028	UG273U	"UHF" to "BNC"		1.93	1.61
18	18A1135	31-217	UG349A/U	"N" to "BNC"		2.80	2.33
1	18A1232	82-38	UG59A/U	Plug "HN"	8, 9, 10	3.17	2.65
1	18A1233	82-804	UG59B/U	Plug "HN"	8, 9, 10	3.44	2.87
10	18A1149	31-102	UG667U*	Recept.		1.64	1.37
9	18A1150	31-202	UG88C/U	Plug	55, 58	1.55	1.30
13	18A1151	31-204	UG913U	Angle	55, 58	3.77	3.15
14	18A1153	31-219	UG914U*	Adaptor		1.86	1.55
10	18A1163	31-817	UG447U*	Recept.		1.11	.93



## COAX CABLE CONNECTOR ADAPTORS

For converting PL-259, SO-239 plugs to Motorola and RCA type sockets. Designed for amateur, citizens band and commercial 2-way radio, test equipment, also for fast conversion without altering original equipment cables.

① Adapts PL-259 Plug to standard auto antenna plug.  
No. 18C427. Model CPA. Mfg. list 75c. Net Each.....45c

② Adapts PL-259 plug to RCA type phono plug.  
No. 18C428. Model CPP. Mfg. list 75c. Net Each.....45c

③ SO-239 coax connector to standard auto antenna socket.  
No. 18C429. Model CSA. Mfg. list 75c. Net Each.....45c

④ Standard auto antenna plug to RCA type phono plug.  
No. 18C430. Model AAP. Mfg. list 40c. Net Each.....24c

## CERAMIC INSULATED RCA TYPE JACK

CIRCUIT CLOSING TYPE. As used on expensive communications equipment for coax RF connecting leads. Back plate is fibre glass. Closes circuit when plug is removed, or can be wired open. Mfg. ctrs. 1/4" Depth 1/4"  
No. 18C259. Special Each.....19c 10 Lots, Each.....15c

## MIL C-17-B COAX CABLE

### AMPHENOL AND TIMES WIRE AND CABLE

Highest quality coax cable used for commercial, amateur, military or citizens band transmission 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.



Stock No.	Military AN No.	Imp. Ohms.	O.D.	Lb. Wt. C Ft.	Amphenol		Times Wire			
					FL	100'	1M'	Ft.	100'	1M'
2W21-004	RG8U	52	.405	10 1/2	13c	\$11.85	\$109.75	12c	\$10.50	\$ 95.00
2W21-290	RG8A/U	50	.405	10 1/2	15c	13.20	122.25	13c	11.80	108.00
2W21-007	RG11U	75	.405	10	12c	10.95	101.50	12c	10.70	91.00
2W21-013	RG17U	52	.870	47	64c	58.30	525.00	57c	51.40	468.00
2W21-024	RG58U	53.5	.195	3	6c	4.90	45.50	5c	4.41	40.10
2W21-199	RG58A/U	50	.195	3	6c	4.90	45.50	5c	4.49	40.80
2W21-316	RG58C/U	50	.195	3	7c	5.40	50.00	6c	4.75	43.20
2W21-025	RG69U	73	.242	4	7c	5.07	47.00	6c	4.49	40.80
2W21-794	RG69B/U	75	.242	4	8c	5.85	54.00	6c	5.12	46.50
2W21-026	RG62U	93	.242	4	7c	5.40	50.00	6c	4.76	43.00
2W21-318	RG62A/U	93	.242	4	9c	6.20	57.50	7c	5.46	49.60
2W21-804	RG71B/U	93	.250	4 1/2	12c	10.10	91.50	11c	9.20	84.00
2W21-440	RG114U	186	.405	8 1/2	17c	14.10	127.50	14c	12.50	114.00
2W21-599	RG174U	50	.105	1	6c	4.80	43.00	4c	3.63	33.00
2W21-597	Sub Minax	75	.150	1 1/2	6c	5.30	48.00			

## POLYFOAM COAXIAL CABLE

Stock No.	Mfg. No.	Similar To RG	Imp.	O.D.	Wt.	Per Ft.	100 Ft.
2C122	621-100-101	11U	75 ohms	.405"	8.6 lbs.	\$0.17	\$15.90
2C123	621-701-100	59U	73 ohms	.195"	2 lbs.	.05	4.50
2C131	621-111	8U	50 ohms	.405"	10.6 lbs.	.16	14.30

## DOW-KEY 60-P CONNECTOR

Single hole panel mounting connector requires only one 5/8" hole. Two serrated jam nuts hold connector firmly to panel.

No. 16A941. Net Each.....70c



## DOUBLE COAX CONNECTOR

Special double male coax connector for mounting relay directly onto output of transmitter or S.W.R. meter. Silver plated.

No. 16A945. Net Each.....\$1.25



## COPPERWELD ANTENNA WIRE

Tensile strength exceeds 100,000 lbs. per inch or 3 times that of ordinary copper. Will not stretch or sag. Electrical properties are the same as copper at high frequencies. Vinyl coated type is non-corrosive. All have solid conductors.



Stk. No.	Size (AWG)	BARE		ENAMELED COPPERWELD		500' Coil	
		100' Coil	250' Coil	2 lbs.	5 lbs.	Wt.	Each
2A44	10	3 lbs.	\$3.34	7 lbs.	\$8.03	14 lbs.	\$15.88
2A45	12	2 lbs.	2.69	5 lbs.	6.30	9 lbs.	10.73
2A46	14	1 lb.	2.36	3 lbs.	5.12	6 lbs.	8.23
2A47	18	1/2 lb.	.70	1 1/2 lbs.	1.40	3 lbs.	2.50
2B50	12	2 lbs.	3.53	4 1/2 lbs.	8.53	9 lbs.	16.17
2B51	14	1 1/4 lbs.	2.58	3 lbs.	5.44	5 3/4 lbs.	10.98

## COPPER ANTENNA WIRE

Excellent for antenna requirements; as bus bar hookup wire; for winding coils, etc. Formvar type is non-corrosive.

SOLID FORMVAR				SOLID BRIGHT TINNED				
No.	Size	100'	200'	500'	No.	Size	25'	100'
2A12	12	\$2.50	\$4.65	\$10.90	2A10	12	\$0.65	\$2.10
2A42	14	1.70	3.30	7.35	2A37	14	.46	1.50
					2A39	16	.33	1.10
					2A41	18	.29	.75
					2B52	20	.25	.60
					2B53	22	.25	.53

## TINNED COPPER SHIELDING



Forms perfect electrostatic and interference shield for wires. Very flexible. Expands to nearly double its original diameter, reducing length about 25%. Extensively used in auto radio installations.

## INDOOR AERIAL WIRE

Belden 8014. 13x36 stranded tinned copper. .010 wall of chrome vinyl plastic insulation.

No. 2A1. 25 Ft.....38c  
100 Ft.....81c 500 Ft...\$2.70

## ANTENNA LOOP

Replaces antenna coil on most any type set. Good pick-up and selectivity.  
No. 20B15. 29c 10 Lots, 24c Each.....



## NEW FLEXFOAM MIKE CABLE

Ideal for use where long lengths or portability is a must. Very flexible stranded low capacity—only 16 mmf per ft. Foam poly dielectric. Tinned copper braid with gray vinyl jacket overall. 190" O.D. Weighs only 1 1/2 lbs. per 100 ft.

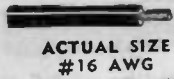
No. 2A138. 25 Ft.....88c 100 Ft.....\$1.27 15 Ft.....88c 500 Ft.....\$4.63





# Belden Wire and Cable

## MIL-W-76A TYPE-A VINYL HOOK-UP WIRE



Withstands 80° C temperature. Has tinned copper conductors. Strips easily and clean. Available in Gray, Black, Red, Blue, Green, Yellow, White, Brown, Orange and Purple. Specify color.

**ACTUAL SIZE #16 AWG**

For Voltages up to 1000 RMS—Wall Thickness .017

### STRANDED CONDUCTOR

Stk. No.	Factory No.	Cond. Size	Cond. Strand	O.D.	25' Length	100' Length	1000' Length
2B13	Belden 8525	24	7/32	.058	\$0.38	\$0.93	\$5.25
2B14	Belden 8524	22	7/30	.064	.39	.93	5.85
2A32	Belden 8523	20	10/30	.072	.48	1.05	7.15
2B7	Belden 8522	18	16/30	.081	.48	1.23	9.10
2B15	Belden 8521	16	19/29	.096	.63	1.58	11.85

### SOLID CONDUCTOR

Stk. No.	Factory No.	Cond. Size	O.D.	25'	100'	1000'
2B34	Belden 8530	22	.059	.38	.74	4.50
2A2	Belden 8529	20	.066	.44	.96	5.40
2A36	Belden 8528	18	.074	.50	1.15	7.50

## MIL-W-16878C TYPE B VINYL 600 V. 105° C.

Tinned copper stranded. Wall thickness .010". Colors: Solid white and striped; White with black, red, green, yellow, blue, brown, orange, gray or violet. Please Specify Color.

Stk. No.	Factory No.	Size	Cond. Strand	O.D.	25' Length	100' Length	1000' Length
2C151	Belden 8500	#16	19X29	.077"	\$0.49	\$1.77	\$14.10
2C152	Belden 8501	#18	7X26	.068"	.49	1.50	11.35
2C153	Belden 8502	#20	7X28	.058"	.45	1.41	10.45
2C154	Belden 8503	#22	7X30	.050"	.37	1.28	9.00
2C155	Belden 8504	#24	7X32	.044"	.37	1.23	8.10

## SHIELDED HOOK-UP WIRE

Conductor is size 20 tinned copper stranded 10/30; rubber insulated. Locomotive coated cellulose acetate yarn braid and tinned copper braid shield are over-all.

Belden Type 8885	No. 2A70. 25-Ft. Coil.....	\$1.00
	100 Ft. Coil.....	3.15

## LEAD-IN WIRE

UNSHIELDED TYPE 8200

SHIELDED TYPE 8206

Size 18 with 7 strands tinned copper wire and thick rubber sheath. Easy to strip and solder.

No. 2A9. 100-Ft. Coil.....	\$ 1.62
1000-Ft. Spool.....	12.15

Conductor is size 18 tinned copper stranded, and rubber insulated. Tinned copper braid shield over-all.

2A137. 15 Ft. 73c; 100 Ft. \$3.60

## BELDEN 2-WIRE SPEAKER & INTERCOM CABLE

Type 8782. Bare copper, flexible stranded size 24 parallel conductors; chrome vinyl plastic insulation; Cable diameter .058 x .115". 7/32 stranding.

2B19. 25 Ft.....	52c	100 Ft.....	\$1.23	1000 Ft.....	\$9.00
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## SOUND SYSTEM, ALARM OR SPEAKER EXTENSION

Size 19 solid conductors with coding of bare copper, tinned copper and ridge on insulation of third. Brown vinyl insulation .025" thick.

Stk. No.	Type	No. Cond.	O.D.	Per Ft.	100 Ft.
2B54	8492	2	.170	2c	\$1.80
2B55	8493	3	.170	3c	2.25

## THERMOSTAT CABLE

For thermostat controls in connection with heating and air conditioning installations. Solid conductors 18AWG, thermoplastic insulation, color coded and twisted. \*Indicates no outer braid.

Stk. No.	Cond.	Cable Cover	O.D.	Per Ft.	25 Ft.	100 Ft.
3A205	2	*	.140	3c	\$0.55	\$1.63
3A206	3	*	.160	4c	.75	2.31
3A203	2	Plastic	.180	4c	.75	2.20
3A204	3	Plastic	.200	6c	1.05	3.24

## TEST PROD WIRE

High-voltage lead wire, excellent dielectric properties and extreme flexibility. Size 18 tinned copper stranded cotton wrap and rubber insulation over-all. Red or Black available.

No.	Voltage	Type	25 Ft.	100 Ft.
2A64.	5000	8899	81c	\$2.40
2A65.	5'	Red and 5' Black.....	.47	
2A66.	10,000 Volt.	Type 8898 for TV use, 5' Red and 5' Black.....	.71	

## BROWN POSJ 18-2 RUBBER

UL approved rubber insulated parallel cord; 2 bare copper flexible stranded, conductors. 41/34 strands.

No. 2A28. Per Ft.....4c  
100 Ft. For \$2.95 250 Ft. For \$6.65

## HEAVY DUTY PORTABLE RUBBER CABLE

For heavy duty service where subjected to 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 over-all. UL approved.

Stock No.	Size	UL Type	Belden No.	Strand	O.D.	Per Ft.	100 Ft.	250 Ft.
2A26	18-2	"SV"	8452	41/34	.245	\$0.07	\$4.45	\$10.35
3A194	18-3	"SJ"	8453	41/34	.265	.09	6.30	13.70
2A27	16-2	"SJ"	8472	65/34	.325	.09	7.15	17.81
2A112	18-4		8454	41/34	2.65	.11	7.20	17.90
2A91	18-5		8455	41/34	.280	.12	7.50	18.75

## MICROPHONE CABLES



Stranded flexible conductor, cellulose yarn braid polyethylene insulated with tinned copper braid shield.

## CHROME VINYL PLASTIC JACKET OVERALL

Stock No.	Type	No. Cond.	O.D.	Use	Strands	Cop. Per Ft.	15 Ft.	25 Ft.	100 Ft.
2A101	8401	1	.200	Hi Imp.	7x33	25 Mmf.	\$0.85	\$1.20	\$4.30
2A102	8411	1	.144	Lapel MIke	7x33	34 Mmf.	.70	1.01	3.15
2A104	8422	2	.231	Low Imp.	16x34	32 Mmf.	1.13	1.75	5.85

## BLACK RUBBER JACKET OVERALL

Stk. No.	Type	No. Cond.	O.D.	Use	Strands	Cop. Per Ft.	15 Ft.	25 Ft.	100 Ft.
2A78	8410	1	.245	Hi Imp.	7x33	33 Mmf.	\$1.32	\$2.10	\$7.35
2A79	8412	2	.268	Low Imp.	26x34	68 Mmf.	1.50	2.35	8.25
2A105	8423	3	.277	Low Imp.	26x34	85 Mmf.	1.76	2.69	9.30

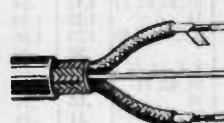
## COILED 4 CONDUCTOR UNSHIELDED MIKE CORD



Stretches to 6 feet—retracts to 11 inches. Stranded 21x36 conductors are tinned, rubber insulated. Paper wrap and black neoprene jacket overall, O.D. .250. Belden 8415

No. 29B251. Net Each.....\$1.15

## BROADCAST AUDIO CABLES



To meet the most exacting requirements of the industry for trouble-free dependable service. High insulation resistance, precision cabling and high percentage of shielding assure a low noise circuit free from cross-talk. All are 2 conductor solid shielded with black vinyl jacket overall. \*Indicates drain wire for positive grounding of shield through entire length of wire.

Stk. No.	Type	Eqpt.	Belden No.	AWG Size	O.D.	Per Ft.	100 Ft.
2B57	ABC	*	8436	22	.180	5 1/2 c	\$4.75
2B58	CBS	*	8437	22	.200	4 1/2 c	3.85
2A89	...		8739	22	.160	3 1/2 c	2.95

## BARE SHIELD OVERALL

Stk. No.	Type	No. Cond.	O.D.	Per Ft.	100 Ft.	
2A90	...	8738	22	.130	3c	2.55
2A127	...	8799	18	.165	5c	4.50

## MULTI-CONDUCTOR—PA AND INTERCOM



7/30 Strands

## PLASTIC JACKET OVER-ALL

All conductors are stranded size 22, with the exception of 6, 7, 8 and 9 conductor cables in which 2 of the conductors are size 18; all are color coded, vinyl plastic insulated, and cabled together with gray plastic jacket over-all. Weatherproof.

Stk. No.	Type	No. Cond.	O.D.	Per Ft.	100 Ft.
2A113	8443	3	.150	4c	\$2.48
2A114	8444	4	.168	5c	3.00
2A115	8445	5	.180	5 1/2 c	3.70
2A116	8446	6	.222	8c	5.40
2A117	8447	7	.246	9c	6.15
2A118	8448	8	.251	9c	6.40
2A119	8449	9	.261	10c	7.15

UNSHIELDED PAIRED. Stranded #22 more flexible and easier to pull through a conduit having a number of bends. 7/30 strand.

Stk. No.	Type	No. Cond.	O.D.	Per Ft.	100 Ft.
2B182	8747	6	.340	10c	\$8.25
2B183	8748	9	.389	14c	11.40
2B184	8749	15	.425	23c	19.50
2B185	8750	27	.595	40c	34.50

## SHIELDED—RUBBER JACKET OVER-ALL



Tinned copper size 22 stranded conductors, vinyl plastic insulated and color coded. Type 8734 (illustrated) has tinned copper shield over one conductor.

Other types shield over entire cable. All types have Gray vinyl plastic jacket over-all.

Stk. No.	Type	No. Cond.	O.D.	Per Ft.	100 Ft.
2A88	8734	3	.194	4 1/2 c	\$3.75
2A87	8735	3	.199	7c	4.30
2A86	8737	2	.170	4c	3.40

Str. 26/34, #20 conductors; cotton wrap, rubber insulation, color coded; Conductors cabled; Royon braid; tinned copper braid shield; cotton wrap; Gray rubber jacket over-all.

Stk. No.	Type	No. Cond.	O.D.	Per Ft.	100 Ft.
2A106	*8424	4	.295	.15	\$10.60
2A107	8425	5	.323	.17	13.20
2A108	8426	6	.349	.21	15.75
2A109	8427	7	.360	.22	17.25

\*Also used as microphone cable.

## WEATHER RESISTANT AUDIO CABLE

2-conductor, tinned stranded color coded and cabled. Ideal for most audio or speaker installations. Vinyl insulated with gray vinyl jacket overall.

Stk. No.	Type	Gauge	O.D.	Per Ft.	100 Ft.
2A186	8205	20(10x30)	.190	4c	\$2.50
2A187	8461	18(7x26)	.226	4c	3.15
2A189	8471	16(11x29)	.256	5c	4.00



## BELDEN MAGNET WIRE

Copper magnet wire with successive coats of formvar and nylon enamels. Resists acids, alkali and petroleum solvents. Takes up less winding space than bulky textile or paper coverings. Exact B-S gauge, uniform length on each spool.



1 POUND SPOOLS NYLCLAD				BARE ENAMEL			
Size	Stk. No.	Ft. Per Spool	Each	Size	No.	Spool Ft. Per Spl.	Each
14	19A338	79	\$1.15	14	19A354	1/2 lb. 40	\$0.87
16	19A339	125	1.16	16	19A601	1/2 lb. 63	.87
18	19A340	199	1.18	18	19A602	1/2 lb. 100	.87
20	19A341	316	1.23	20	19A603	1/2 lb. 160	.87
22	19A342	503	1.20	22	19A604	1/2 lb. 250	.71
24	19A343	809	1.35	24	19A605	1/2 lb. 400	.73
26	19A344	1264	1.49	26	19A606	1/2 lb. 638	.79
28	19A345	2001	1.62	28	19A607	1/2 lb. 1010	.85
30	19A346	3167	1.84	30	19A608	1/2 lb. 1610	.93
32	19A347	5023	2.02	32	19A609	1/4 lb. 1270	.58
34	19A348	7962	2.35	34	19A610	1/4 lb. 2015	.59
36	19A349	12618	2.91	36	19A611	1/4 lb. 3200	.68
38	19A350	20004	3.75	38	19A612	1/4 lb. 5070	.88
40	19A351	31686	5.52	40	19A613	1/4 lb. 8050	1.17

## LITZ—VOICE COIL—PHONO LEAD WIRE

**BELDEN 8419 STEREO PHONO LEAD WIRE.** 3-conductor shielded color coded flexible AWG32 (7x40) O.D. .063. **75c** 25 **\$1.28**  
No. 2A82. 10 Ft. **\$1.28**

**BELDEN 8431 PHONE PICK-UP ARM CABLE.** Single conductor #24 stranded, and shielded with brown cotton braid overall.  
No. 2A103; 10 ft. for **53c**; 15 ft. for **66c**; 100 ft. for **\$3.25**

Litz Wire: Belden 8817; 5x44 stranded-enamel, Nylon wrap. **29c**  
No. 19B336; 100 ft. spool for **29c**

Voice Coil Wire: Belden 8127; braided of 32 str. #40 bare copper.  
No. 19B335; (a.d. .024") 10 ft. spool for **37c**

## ALPHA PVC-105 PLASTIC TUBING

Manufactured for all electronic, electrical and aircraft applications. Conforms to MIL-1-631-C, ASTM-D876 and D922 specs and is UL approved. High dielectric strength, non-flammable and resistant to oils and corrosion. Flexible from +105° C to -30° C. Available in Black or Clear. Continuous lengths of 1000' available on request

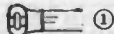
Stk. No.	Size	I.D.	25' For	100' For	Stk. No.	Size	I.D.	25' For	100' For
3B47	24	.022	\$0.65	\$1.96	3B71	6	.166	\$1.23	\$4.26
3B48	22	.027	.66	1.97	3B79	5	.186	1.31	4.58
3B49	20	.034	.67	2.01	3B80	4	.208	1.40	4.93
3B53	19	.038	.68	2.06	3B81	3	.234	1.48	5.25
3B54	18	.042	.68	2.08	3B83	2	.263	1.59	5.69
3B57	17	.047	.69	2.11	3B84	1	.294	1.69	6.12
3B58	16	.053	.71	2.20	3B85	0 1/8"	.312	2.11	7.79
3B59	15	.059	.73	2.27	3B86	0 1/8"	.330	1.81	6.68
3B60	14	.066	.75	2.34	3B89	3/8"	.375	2.40	8.94
3B61	13	.076	.76	2.39	3B90	1/2"	.438	2.66	9.65
3B62	12	.085	.79	2.49	3B91	1/2"	.500	2.91	10.64
3B63	11	.095	.80	2.56	3B92	1/2"	.562	3.79	14.17
3B64	10	.106	.83	2.66	3B94	5/8"	.625	4.08	15.30
3B66	9	.118	1.04	3.49	3B99	3/4"	.750	5.53	20.56
3B67	8	.133	1.10	3.74	3B116	7/8"	.875	6.19	21.87
3B68	7	.148	1.16	3.97					

\*Indicates 50 Ft. Lengths.

## TY-RAP CABLE TIES

BY MFG. OF FAMOUS STA-KON TERMINALS

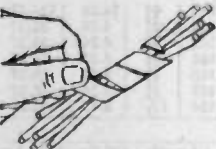
Fast, low cost cable tying. Up to six times faster than tying with string. High tensile strength 85 lbs., unlocking force over 60 lbs. Temp. range -65° F. to +350° F. Will not unroll. Each Ty-Rap cable tie will accommodate any wire bundle from 1/8" to 1 3/4" dia. Use WT184 Shoehorn for easier threading in close quarters. Hand tool makes easy work of tying and crimping.



Stk. No.	Mfg. No.	Description	Length	100 For	1000 Lots Per 100
① 19A1244	TY503	Tie	3 1/2"	\$3.00	\$2.40
② 19A1249	TY505	Tie	7 1/2"	4.40	3.50
③ 19A1248	TY515	Strap	7"	5.00	4.00

No. 19A1247 WT183F. HAND TOOL. Each **\$15.00**  
No. 19A1246 WT184. SHOEHORN. Each **\$1.00**  
No. 19A1245 WT185F. HAND TOOL. Each **\$15.00**

## HELI-TUBE SPIRAL WRAP



Spiral cut clear polyethylene tubing for cabling or harness wiring. Allows taps or lead off at any point. Retains original form and may be reused if desired. 1/4" O.D. expands for cables up to 2" in dia. Not affected by solvents, acid or alkalis. For use in temp. from -100° F. to +200° F. Wt. 12 lbs. per m. ft. **8c** 100 Ft. For **\$7.50**

## SCOTCH VINYL PLASTIC ELECTRICAL TAPE

SUPER-TOUGH AND STRETCHY

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 mils thick. Dielectric strength 10,000 V. breakdown. UL Approved.

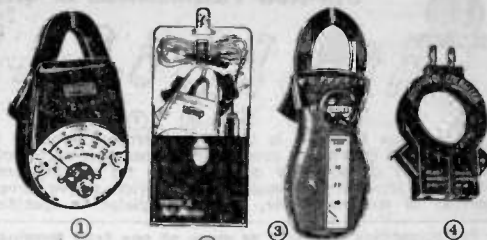


11A584. 66 Ft. 3/4" Wide. Roll, Each	\$1.50	12 Rolls, Each	\$1.36
11A585. 20 Ft. x 3/4" Wide Roll			55c
11A586. 3/8" x 20 Ft. Roll			35c

Scotch No. 27 Glass Cloth Adhesive Tape for temperatures up to 300° F. Tensile strength 150 lbs. per inch. Thickness 7 mils. Dielectric strength 1800 volts.  
No. 11A589. 66 Ft. Roll 1/2" Wide, Ea. **\$1.75** 12 Rolls, Ea. **\$1.58**

## PYRAMID AMPROBES

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.



Here are a few of the tests you can make: Determine load condition of equipment without shut down; Diagnose trouble coils faster, under actual load.

① Amprobe Junior size 2 1/2 x 4 3/4 x 1". 11 oz.  
35A307. Model Y525. For 0-25 Amps. AC, 0-150-600 Volts AC.  
35A308. Model Y500. For 0-100 Amps AC, 0-150-600 Volts AC.  
**YOUR CHOICE EACH** **\$19.85**

② Amprobe Jr. Testmaster Kit. Complete ohmmeter, voltmeter, ammeter. The only precision instrument that measures voltage, amperage and resistance instantly within 3% accuracy. Energizer increases sensitivity 10 times with a capacity of 25 amps. Ammeter measures on insulated or non-insulated conductor. Ohmmeter measures resistance with plug-in battery attachment for test leads.

Energizer "splits" double line cords for reading at outlet or 10 times sensitivity. Also permits voltage reading under load conditions. Complete Kit includes instrument listed above, Energizer, Ohmmeter Probe, safety test leads and leather case. **\$29.85**  
No. 35A345. TM-YO525. 0-25 Amps. Net Each **\$29.85**  
No. 35A346. TM-YO500. 0-100 Amps. Net Each **\$29.85**

③ Model RS-2. New reading ease with rotating scale under magnifying unbreakable window. Only one of six ranges visible at any time. 4 AC current ranges for 0-5-15-40-100 amperes and 2 AC voltage ranges for 0-150-300 volts. Easy one-hand operation plus finger tip "pointer-lock". Locks pointer in position for accurate reading away from conductor when used in hard to reach places. Rugged impact-proof plastic case, complete with test leads and leather carrying case. Wt. 14 ozs. Only 7 1/2" long. **\$39.85**  
No. 35A406. Model RS-2. Net Each **\$39.85**

④ Model RS-3. Does 3 jobs, measures amperes, volts and ohms resistance. Has same ranges as RS-2 described above with addition of 0-300 amps, 0-600 volts and ohms scale for measuring resistance tracing circuits and checking for opens. Reads 25 ohms center scale, 2000 ohms full scale. Most complete tester available. With leather carrying case and connecting leads for voltage and resistance measurements. **\$52.50**  
No. 35A581. Net Each **\$52.50**

⑤ Model A40 Energizer divides Amprobe Meter reading by 10 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 weather-proof pouch. Wt. 3 oz.  
35A310. Model A40. Each **\$3.75**

## PRESSURE SENSITIVE LABELS

Codes wires, leads, circuits, relays, and other parts fast and cheap. Easy to use, they stick-quick without moistening. Comes on handy card, 6 of each number, 1 to 33. **19c**  
No. 19A259. Per Card **19c**



Card of Letters—A to E. 5 of each letter. Used for multi-conductor cable coding in connection with numbers above for individual conductor identification. **24c**  
No. 19B260. Per Card **24c**

## BELDEN 8418



## 8-CONDUCTOR POWER CABLE

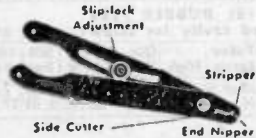
Interconnecting cable for industrial or amateur use. Conductors are #20 tinned copper stranded, each cotton wrapped, rubber insulated and color coded. Rayon braid over conductors and fillers, with tinned copper shield, cotton nerve and black rubber jacket overall. O.D. .386. Wt per 100 ft. 12 lbs.

2B195. Per Ft. **22c** 100 Ft. For **\$17.64**

## ADJUSTABLE WIRE STRIPPER

THREE-TOOLS-IN-ONE

Fully adjustable for stripping solid or stranded wire from No. 6 to smallest. Calibration on handle assures proper adjustment. Hardened and ground steel blades. **88c**  
No. 16B526. Net Each **88c**



## APPLIANCE COILED CORDS FOR COFFEEMAKERS, FRYPANS, ETC.



Extends up to 6 ft. Stranded HPN #18 (41x34) parallel neoprene cord for 10 amp 125 volt. Molded rubber plug one end. 1/2" miniature or standard 1/4" spacing plugs. UL approved. **\$1.01**  
No. 19A903. With Miniature Plug. Net Each **\$1.01**  
No. 19A904. With Standard Plug. Net Each **\$1.09**  
No. 19A905. Without Plug. Net Each **.85c**

## KINK-FREE 24" APPLIANCE CORD

2 ft. neoprene 17AWG stranded (52x34) parallel cord eliminates counter mess of excess cord. For coffee maker and fry pans using 1/2" spacing. UL approved. **42c**  
No. 19A906. Net Each **42c**



# Crimp-On Terminals, Hole Plugs & Grommets

## THOMAS & BETTS Sta-Kon TERMINALS & CRIMPING TOOLS



The Sta-Kon terminal is internally serrated making a shakeproof contact. The area of contact is greater than the cross-sectional area of the wire, assuring high conductivity and a heavy tin coating prevents corrosion. Self-insulated Sta-Kon terminals have a nylon sleeve covering the barrel and a portion of the conductor. Preserves dielectric specifications up to 400° F.

For quantities of 5,000 or more of one type terminal deduct 25% from the 500 column price for your cost per 100.

NON-INSULATED RING TONGUE					SELF-INSULATED GRIP RING TONGUE						
Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C	Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C
19A1250	A18-6	22-18	6	\$3.75	\$2.64	19A1279	RA18-6	22-18	6	\$7.20	\$5.60
19A1251	A18-8	22-18	8	3.75	2.64	19A1280	RA18-8	22-18	8	7.20	5.60
19A1252	A18-10	22-18	10	3.75	2.64	19A1281	RA18-10	22-18	10	7.20	5.60
19A1253	A18-14	22-18	1/4	4.80	3.50	19A1282	RA18-14	22-18	1/4	8.30	6.30
19A1254	B14-6	20-14	6	3.75	2.64	19A1283	RB14-6	16-14	6	7.20	5.60
19A1255	B14-10	20-14	10	3.75	2.64	19A1285	RB14-10	16-14	10	7.20	5.60
19A1256	C10-6	16-12	6	5.20	3.80						
19A1257	C10-8	16-12	8	5.20	3.80						
19A1280	C10-10	16-12	10	5.20	3.80						

SPADE TONGUE					GRIP SPADE TONGUE						
Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C	Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C
19A1262	A18-6F	22-18	6	3.75	2.64	19A1286	RA18-6F	22-18	6	7.20	5.60
19A1263	A18-10F	22-18	10	3.75	2.64	19A1287	RA18-8F	22-18	8	7.20	5.60
19A1264	B14-6F	20-14	6	3.75	2.64	19A1289	RB14-6F	16-14	6	7.20	5.60
19A1265	B14-8F	20-14	8	3.75	2.64	19A1290	RB14-8F	16-14	8	7.20	5.60

FLAG TYPE					INSULATED CONNECTORS						
Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C	Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C
19A1267	AB14-6A	22-14	6	4.00	3.10	19A1292	2RA-18	22-18	.....	6.88	5.35
19A1268	AB14-8A	22-14	8	4.00	3.10	19A1293	2RB-14	16-14	.....	6.88	5.35
19A1269	AB14-10A	22-14	10	4.00	3.10						

RING TONGUE CABLE GRIP					ONE PIECE WIRE JOINT						
Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C	Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C
19A1270	B14-6G	20-14	6	4.30	3.20	19A1294	RB-44	27/16, 3/18, etc.	4.00	2.70	
						19A1295	RC-55	3/14, 4/16, etc.	5.80	4.45	

SPADE TONGUE CABLE GRIP					WRISTLOCK DISCONNECT						
Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C	Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C
19A1272	B14-6FG	20-14	6	4.30	3.20	19A1296	B14-D	20-14	.....	7.80	5.50

TELEVISION HOOK					DISCONNECTS						
Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C	Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C
19A1275	A18-10TV	.025-.046	10	7.50	5.30	19A1298	B14-250F	20-14	Female	4.80	3.70
						19A1299	B14-250T	20-14	Tab	4.80	3.70

TWO-WAY CONNECTORS					STA-KON CRIMP TOOL						
Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C	Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C
19A1276	2A18	22-18	.....	4.66	3.20						
19A1277	2B14	20-14	.....	4.66	3.20						
19A1278	2C10	16-10	.....	6.35	4.50						

RUBBER GROMMETS, PLUGS & BUMPERS											
(2) RUBBER GROMMETS PLAIN RUBBER											
Stock No.	Mfg. No.	I.D. Hole	QTY. in 35c Bx.	100 For	500 For	1000 For	5000 per M	Stock No.	Mfg. No.	I.D. Hole	QTY. in 35c Bx.
12A1497	1/4"	1/4"	16	1.10	4.95	8.75	7.87	12A1483	3/8"	3/8"	14
12A1483	1/2"	1/2"	14	1.23	5.53	9.88	8.69	12A1484	5/8"	5/8"	12
12A1484	3/4"	3/4"	12	1.66	7.47	13.23	11.91	12A1485	7/8"	7/8"	10
12A1485	1"	1"	10	1.86	8.37	14.85	13.36	12A1486	1 1/8"	1 1/8"	7
12A1486	1 1/4"	1 1/4"	7	2.82	12.69	25.87	23.28				

(3) RUBBER BUTTON BUMPERS Just Put in Hole											
Stock No.	O.D.	Fits Hole	High	QTY. in 35c Pkg.	100 For	500 For	1000 For	Stock No.	O.D.	Fits Hole	High
12A1449	1/4"	1/4"	1/8"	10	1.41	6.34	11.28	12A1450	1/2"	1/2"	1/8"
12A1450	3/8"	3/8"	1/8"	8	2.07	9.31	16.51	12A1451	5/8"	5/8"	1/8"
12A1451	3/4"	3/4"	1/8"	6	3.32	14.94	26.57				

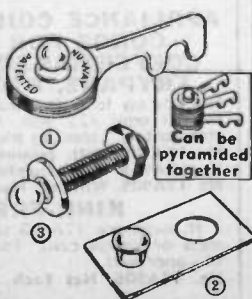
(4) RUBBER FEET With recessed cavity for screws, nails, etc.											
Stock No.	O.D.	Takes Screw	High	QTY. in 35c Pkg.	100 For	500 For	1000 For	Stock No.	O.D.	Takes Screw	High
12A1447	1/4"	#4 or 6	1/8"	8	.89	4.00	7.15	12A1444	3/8"	#6 or 8	1/8"
12A1444	1/2"	#6 or 8	1/8"	8	2.18	9.81	17.35				

## 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).

- ① Snaps—Snaps on to studs or lugs listed below. With crimp-on solder lug.  
12A642. Ea. 10c 100 For. \$7.19 1M For. \$64.80
- ② Lugs—Adapts screw type terminals or binding posts for use with above snaps. Size 3/4" x 1/8" x 3/32". Has hole for size 6 or 8 screws.  
12A644. Ea. .7c 100 For. \$4.73 1M For. \$44.10
- ③ Studs—With snap for use with snaps above. Mounts in chassis or panel. Size 6-32 x 1/2" long.  
12A643. Ea. .7c 100 For. \$4.73 1M For. \$44.10



## CLAMP HAND TOOL

DOES 5 JOBS!  
CRIMPS TERMINALS!  
SHEARS BOLTS! STRIPS,  
CUTS AND GAUGES WIRE!

\$4.95



THE IDEAL TOOL FOR TV, RADIO & ELECTRICAL WORK  
Crimps terminals as listed below to wire ends for clean and true connections—no solder needed.  
Shears screws & bolts sizes 10-24, 10-32, 8-32, 6-32, or 4-40 to desired length without damage to threads. Strips and cuts wire sizes 22 to 10 fast and clean. Stripper natches also serve as a Wire Gauge.

WIRE SIZES 22-16					WIRE SIZES 16-14						
Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C	Stk. No.	Mfg. No.	Wire	Stud	100 For	500 Per C
19B1101	11	19B1101	4c	\$2.85		19B1107	11	19B1107	4c	\$2.90	
19B1102	4c	19B1108	4c	2.85		19B1108*	4c	19B1108*	4c	2.85	
19B1103	4c	19B1109*	4c	2.85		19B1109*	4c	19B1109*	4c	2.85	

## WALDOM CRIMP-ON TERMINALS TOP QUALITY—LOW COST

SPADE TONGUE TERMINALS FIG. 1											
Stock No.	Wire	Dimensions Stud W. L	100 For	1000 For	Insulated Stock No.	L	100 For	1000 For			
19A1125	22-16	5-6	\$1.78	\$14.99	19A1123	1 1/2	\$4.24	\$35.37			
19A1126	22-16	8	1.78	14.99	19A1124	1 1/2	4.24	35.37			
19A1127	16-14	5-6	1.78	14.99	19A1145	1 1/2	4.24	35.37			
19A1128	16-14	8	1.78	14.99	19A1146	1 1/2	4.24	35.37			

RECTANGULAR TONGUE TERMINALS FIG. 2											
Stock No.	Wire	Dimensions Stud W. L	100 For	1000 For	Insulated Stock No.	L	100 For	1000 For			
19A1129	22-16	5-6	\$1.78	\$14.99	19A1147	1 1/2	\$4.24	\$35.37			
19A1130	22-16	8	1.78	14.99	19A1148	1 1/2	4.24	35.37			
19A1131	16-14	5-6	1.78	14.99	19A1149	1 1/2	4.24	35.37			
19A1132	16-14	8	1.78	14.99	19A1150	1 1/2	4.24	35.37			

FLANGED SPADE TERMINALS FIG. 3											
Stock No.	Wire	Dimensions Stud W. L	100 For	1000 For	Insulated Stock No.	L	100 For	1000 For			
19A1133	22-16	5-6	\$1.78	\$14.99	19A1151	1 1/2	\$4.24	\$35.37			
19A1134	22-16	8	1.78	14.99	19A1152	1 1/2	4.24	35.37			
19A1135	22-16	10	1.78	14.99	19A1153	1 1/2	4.24	35.37			
19A1136	16-14	5-6	1.78	14.99	19A1154	1 1/2	4.24	35.37			
19A1137	16-14	8	1.78	14.99	19A1155	1 1/2	4.24	35.37			
19A1138	16-14	10	1.78	14.99	19A1156	1 1/2	4.24	35.37			
19A1139	12-10	10	2.52	21.00	19A1157	1 1/2	5.15	42.93			

RING TONGUE TERMINALS FIG. 4											
Stock No.	Wire	Dimensions Stud W. L	100 For	1000 For	Insulated Stock No.	L	100 For	1000 For			
19A1140	22-16	5-6	\$1.78	\$14.99	19A1168	1 1/2	\$4.24	\$35.37			
19A1141	22-16	8	1.78	14.99	19A1159	1 1/2	4.24	35.37			
19A1142	22-16	10	1.78	14.99	19A1160	1 1/2	4.24	35.37			
19A1143	16-14	5-6	1.78	14.99	19A1161	1 1/2	4.24	35.37			
19A1144	16-14	8	1.78	14.99	19A1162	1 1/2	4.24	35.37			
19A1145	16-14	10	1.78	14.99	19A1163	1 1/2	4.24	35.37			
19A1146	16-14	10	2.52	21.00	19A1164	1 1/2	5.15	42.93			

BUTT CONNECTORS FIG. 5											
Stock No.	Wire	Length	100 For	1000 For	Stock No.	Length	100 For	1000 For			
19A1117	22-10	1/2"	\$1.96	\$16.68	19A1165	1 1/2	\$4.99	\$42.45			
19A1118	16-14	1/2"	1.96	16.68	19A1166	1 1/2	4.99	42.45			

QUICK DISCONNECTS—PUSH-ON TYPE FIG. 6											
Stock No.	Width	Length	100 For	1000 For	Stock No.	Length	100 For	1000 For			
19A1119	1/4" Male	1 1/2"	\$1.92	\$16.34	19A1167	1 1/2"	\$4.46	\$37.91			
19A1120	1/4" Female	1 1/2"	1.92	16.34	19A1168	1 1/2"	4.46	37.91			

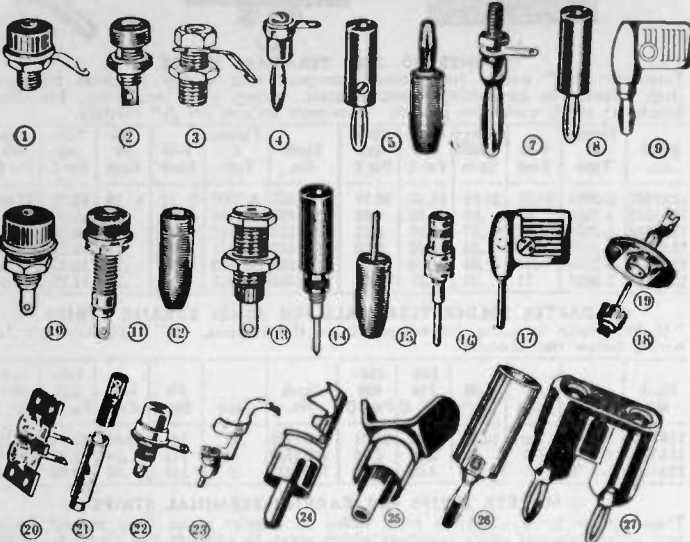
NYLON INSULATED CLOSED-END CONNECTORS FIG. 7											
Stock No.	Wire	O. D.	Length	Barrel Length	I. D.	Circular Mill Area	100 For	1000 For			
19A1121	22-14	1/8"	1 1/2"	1/2"	1/8"	600-5,180	\$3.05	\$25.88			
19A1122	16-10	1/8"	1 1/2"	1/2"	1/8"	2,400-13,100	4.17	35.78			

WALDOM UNIVERSAL CRIMPING TOOL. One tool for insulated and non-insulated terminals. Shpg. Wt. 1 lb.  
No. 19A1200. Net Each. \$3.95



# Plugs - Jacks - Clips

## BANANA PLUGS & JACKS PHONE TIP PLUGS & JACKS



**MANUFACTURERS ABBREVIATIONS USED BELOW:** HS for Herman H. Smith, EJ for E. F. Johnson, WTV for Workman TV, S for Switchcraft and E for EBY.

**DESCRIPTIVE ABBREVIATIONS:** BP for banana plug, BJ for banana jack, TP for tip plug, TJ for tip jack, PP for phono plug, PJ for phono jack and I for insulated. All jacks will mount in panels up to 3/8" thick except HS240 (to 1/2") and HS206 (to 3/8"). Herman Smith insulated types are stocked in Red, Black, Green and Yellow. E. F. Johnson types stocked in White, Red, Black, Green and Yellow. Please specify both B-A Stock Number and Color

Illus. Fig.	Stock No.	Mfg. Type	Mtg. Hole	Over. Lgth.	Description	Each	Each	Each	100 up
						1-9	10-49	50-99	per 100
(1)	12A1048	HS205	3/8"	1 1/2"	BJ, Insulated head	\$0.13	\$0.12	\$0.11	\$ 9.75
(2)	12A681	EJ108	3/8"	1 1/2"	BJ, I Nylon, 900 Series	.14	.13	.12	11.69
(3)	12A1047	HS109	3/8"	1 1/2"	BJ, Brass Nickel Plated	.10	.09	.08	7.50
(4)	12A1046	HS100	1 1/8"	1 1/2"	BP Bronze N. P., 6/32 screw	.15	.13	.12	11.25
(5)	12A1042	HS204	1 1/8"	1 1/2"	BP, I Solderless screw	.18	.17	.16	15.00
(6)	12A682	EJ108	1 1/8"	1 1/2"	BP, I Nylon, 300 Series	.21	.20	.19	17.50
(7)	12A1044	HS103	1 1/8"	1 1/2"	BP, Brass N.P. 6/32" thrd.	.15	.13	.12	11.25
(8)	12A901	HS211	1 1/8"	1 1/2"	BP, I, solder or solderless	.18	.16	.15	13.50
(8)	12A903	HS295	1 1/8"	1 1/2"	BP, I, solderless type	.18	.16	.15	13.50
(9)	12A824	HS255	1 1/8"	1 1/2"	BP, I, Meter, Red or Black	.35	.31	.29	26.25
(10)	12A1058	HS202	1 1/8"	1 1/2"	TJ, I Ph. Bronze contact	.13	.12	.11	9.75
(10)	12A900	HS240	1 1/8"	1 1/2"	TJ, I Nylon, 4000 V. AC	.18	.16	.15	13.50
(10)	12A694	FJ105	1 1/8"	1 1/2"	TJ, I Nylon, 800 Series	.13	.12	.11	10.81
(11)	12A1049	HS206	1 1/8"	1 1/2"	TJ, I & BJ, I Combined	.16	.14	.13	12.00
(12)	12A718	EJ105	1 1/8"	1 1/2"	TJ, I Nylon, 700 Series	.30	.28	.27	25.00
(13)	12A1057	HS107	1 1/8"	1 1/2"	TJ, Brass Nickel Plated	.10	.09	.08	7.50
(14)	12A1050	HS200	2 1/8"	1 1/2"	TP, I Solderless Type	.15	.13	.12	11.25
(15)	12A719	EJ105	1 1/8"	1 1/2"	TP, I Nylon, 300 Series	.16	.15	.14	13.24
(16)	12A1052	HS105	1 1/8"	1 1/2"	TP, Brass N. P. Solderless	.10	.09	.08	7.50
(17)	12A1055	HS235	1 1/8"	1 1/2"	TP, I, Meter, Red or Black	.27	.24	.22	19.50
(18)	12A1037	HS1201	1"	1 1/2"	PP, RCA Type	.06	.05	.045	4.00
(19)	12A1038	HS1203	1"	1 1/2"	PJ, RCA Type	.09	.08	.07	6.00
(20)	12A676	HS1214	1 1/8"	1 1/2"	PJ, RCA Type Double	.10	.09	.08	7.00
(20)	12A631		1 1/8"	1 1/2"	PJ, RCA Type, 4-in-line	.20	.19	.18	17.00
(21)	12A627	HS1216	1 1/8"	1 1/2"	New PJ, I 3-Cond. Closed	.21	.19	.18	15.75
(21)	12A677	HS1237	1 1/8"	1 1/2"	PJ, Shielded Extension	.24	.22	.21	18.00
(22)	12A415	S3501FP	1 1/8"	1 1/2"	PJ, Single hole, front mtg.	.21	.19	.17	15.85
(22)	12A544	S3501FR	1 1/8"	1 1/2"	PJ, Single hole rear mtg.	.24	.22	.20	18.00
(23)	12A926	WTV	1 1/8"	1 1/2"	PP, Handgrip Solder	.15	.13	.12	11.25
(24)	12A545	S3501me	1 1/8"	1 1/2"	PP, RCA, Cable Clamp Type	.10	.09	.08	7.20
(25)	12A543	P51-1M	1 1/8"	1 1/2"	PP, RCA Type, Easy-Grip	.10	.09	.08	7.68
(26)	12A997	HS324	1 1/8"	1 1/2"	BP, I Solderless, Stack, Red or Black (Half of HS210 Below)	.47	.39	.36	34.56
(27)	12A996	HS210	1 1/8"	1 1/2"	Dbl. BP, Std. 3/8" Spacing, Solderless, will Stack BP's Red or Black	.70	.58	.54	51.84

\*Ideal tip jack for patch cords or for panel mounting where complete insulation of rear connection is desired.

### STANDARD PHONE TIP

Brass Nickel Plated.  
12A1085. Ea. 3c 100 \$2.06 1000 \$16.50



### FAHNESTOCK CONNECTORS

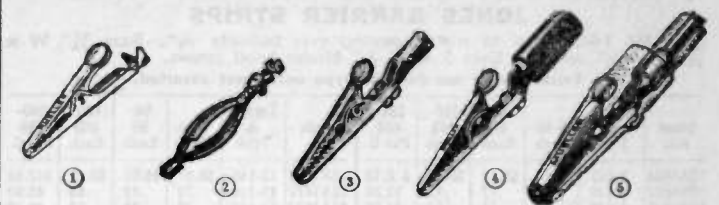


Positive contact clips. \*Bronze. All others are Brass.

Illus. Fig.	Stock No.	Mfg. Type	Length	Width	Max. Wire	Mtg. Hole	1-9	10	100	1000
(1)	12A1089	2	1"	3/8"	#10	#8	3c	\$0.12	\$1.10	\$10.00
(1)	12A1090	10	1 1/8"	3/8"	#14	#6	3c	.10	.90	8.00
(2)	12A1091	5	1 1/8"	3/8"	#10	#8	4c	.19	1.70	16.00
(2)	12A927	*15	1 1/8"	3/8"	#16	#4	3c	.10	.90	8.00
(3)	12A1092	9	2 1/8"	3/8"	#10	#8	17c	1.35	12.60	.....
(3)	12A1093	18	1 1/8"	3/8"	#14	#6	14c	1.20	11.20	.....
(4)	12A1094	*36	1 1/8"	3/8"	#14	Lug	24c	1.80	16.80	.....
(5)	12A1095	45	1 1/8"	3/8"	#12	#6	3c	.18	1.33	12.39

## 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. STANDARD PACKAGES OF 10 AND 100 CLIPS.



① "MINI-GATOR" CLIP  
Tiniest made for testing miniature and sub-miniature equipment.

No.	Type	Lgth.	Open	Each	10 For	100 For
12B1035	†30	1 1/8"	3/8"	7c	\$0.44	\$ 3.80
12B1036	†30C	1 1/8"	3/8"	8c	.56	4.80

② WEE-PEE-WEE CLIP  
Non-ferrous R.F. Clip. Ideal for coils and high frequency work.

12A1012	88	1 1/4"	3/8"	22c	1.50	13.00
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③ ALLIGATOR CLIPS (Fit Banana Plugs)

No.	Type	Length	Open	Each	10 For	100 For
12B1026	†60	2"	3/8"	7c	.50	4.40
12A1006	60S	2"	3/8"	8c	.58	4.80
12A1007	*60CS	2"	3/8"	12c	.84	7.20

④ INSULATED ALLIGATOR CLIPS  
Red or Black shank. Fits banana plugs.

12A1008	60HS	2 1/4"	3/8"	12c	.84	7.20
12A1009	*60CHS	2 1/4"	3/8"	15c	1.05	9.00

⑤ ALL-INSULATED ALLIGATOR CLIPS  
Protects against shocks and shorts in compact equipment. Red or black.

12A1638	63	2"	3/8"	24c	\$1.64	\$14.00
12A1639	*63C	2"	3/8"	26c	1.80	15.60



⑥ "70" SERIES ALLIGATOR CLIPS  
Utilizes cord strain relief ears to prevent breakage of lead wire.

No.	Type	Lgth.	Open	Each	10 For	100 For
12A923	†70	1 1/8"	3/8"	7c	.44	3.80
12A924	70S	1 1/8"	3/8"	8c	.50	4.40
12A925	*70CS	1 1/8"	3/8"	11c	.75	6.40

⑦ CROCODILE CLIP

12A1010	85	2 1/8"	3/8"	9c	.60	5.20
12B1041	*85C	2 1/8"	3/8"	16c	1.10	9.80
12A1011	†85T	2 1/8"	3/8"	21c	1.50	12.60

\*Copper. †Phone Tip on One Jaw

⑧ SOLID BRONZE CLIP  
Needle type makes a quick temporary contact through insulation.

No.	Type	Lgth.	Description	Each	10 For	100 For
12B1022	50-C	2 1/4"	Needle Type	26c	\$1.80	\$15.60
12B1023	51-C	2 1/4"	Less Needle	17c	1.20	10.00

⑨ BATTERY CLIPS WITH GRIP TEETH

No.	Type	Amps.	Lgth.	Open	Each	10 For	100 For
12A671	24A	25	2 3/8"	3/4"	22c	\$1.50	\$13.00
12A672	21A	50	4"	1 1/8"	39c	2.80	24.00

⑩ TEST CLIPS WITH MESH TEETH

12A1000	45	5	1 1/2"	3/8"	7c	.50	4.20
12A1001	*45C	10	1 1/2"	3/8"	13c	.90	7.80
12A1002	48B	10	2 1/2"	1 1/8"	10c	.70	6.00
12A1003	†27	20	2 1/2"	5/8"	13c	.90	7.70
12A1004	*†27C	40	2 1/2"	5/8"	20c	1.40	12.00

†Meshing Teeth on All 3 Sides of Jaws \*Solid Copper

⑪ INSULATORS ONLY  
Red or black, specify colors wanted.

Stk. No.	Type	For Clip	Each	10 For	100 For
12A674	23	21A	45c	\$3.20	\$27.00
12A673	26	24A	23c	1.60	13.70
12A1016	29	27, 27C	15c	1.00	8.90
12B1037	32	30, 30C	6c	.40	3.50
12A1014	47	45, 45C	6c	.44	3.80
12A1015	49	48B, 50C, 51C	9c	.65	5.40
12A1064	62	60S, 60CS, 60, 70S, 70CS, 70	6c	.40	3.50
12A1074	72	70, 70-S, 70-CS	6c	.40	3.50
12A1017	87	85, 85T, 85C	6c	.44	3.80
12A1013	93	88	12c	.80	7.00

### NEW MUELLER MICRO-GATOR CLIP

This amazing sub-miniature alligator clip can be used where no other clip will do... on printed circuits, in tight spots and on tiny terminals too crowded for anything but its "microscopic" tip. The Micro-gator is truly small (takes 30 to weigh an ounce). Its tip is smaller still; including separate skin-tight insulator, it's no bigger than the head of a pin! Yet the Micro-gator has ample thumb grip and plenty of bite to stand up straight on the smallest terminals or wire.

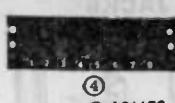
Clip Features: Length 1 1/2"; jaw spread 3/8"; tiny tips, only 1/16" across. Knurled thumb grip. Solder connection, with clinching ears to relieve strain on wire.

Type 36 specify Red or Black. Ea. 10 For 100 For 500 For

No. 12A1069	Type 34. Steel cadmium plated	7c	44c	\$3.80	\$18.00
No. 12A1070	Type 34C. Solid Copper	8c	56c	4.80	22.00
No. 12A1071	Type 36. Insulator for 34 or 34C	6c	40c	3.50	16.50



# Jones Strips, Lugs, Sockets



## JONES BARRIER STRIPS

① SERIES 140. Metal to metal spacing over bakelite  $\frac{1}{4}$ ". Base  $\frac{7}{8}$ " W x  $\frac{3}{8}$ " H.  $\frac{3}{8}$ " centers. Uses 5-40 x  $\frac{1}{8}$ " binder head screws.  
Prices below are for one type only—not assorted.

Stock No.	Terms. & Type	1-49 Each	50-99 Each	100-249 Each	250-499 Per C	Stock No.	Terms. & Type	1-49 Each	50-99 Each	100-249 Each	250-499 Per C
12A1526	2-140	\$0.14	\$0.12	\$0.10	\$ 9.12	12A1533	12-140	\$0.67	\$0.56	\$0.45	\$42.56
12A1527	3-140	.20	.17	.13	12.54	12A1477	13-140	.73	.61	.48	45.98
12A1528	4-140	.25	.21	.17	15.96	12A1534	14-140	.79	.66	.52	49.78
12A1529	5-140	.31	.26	.20	19.38	12A1478	15-140	.84	.70	.56	53.20
12A1530	6-140	.35	.30	.24	22.42	12A1535	16-140	.89	.75	.60	56.62
12A1474	7-140	.41	.34	.27	25.84	12A1479	17-140	.94	.79	.63	59.66
12A1531	8-140	.46	.39	.31	29.26	12A1536	18-140	1.00	.83	.66	63.08
12A1475	9-140	.52	.43	.34	32.68	12A1480	19-140	1.05	.88	.70	66.50
12A1532	10-140	.57	.48	.38	36.10	12A1537	20-140	1.10	.92	.74	69.92
12A1476	11-140	.62	.52	.41	39.14	12A1481	21-140	1.16	.97	.77	73.34

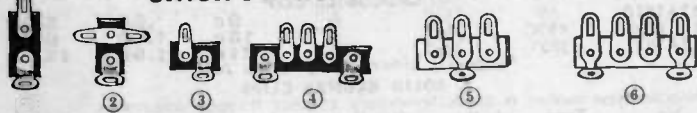
① SERIES 141. Metal to metal spacing over bakelite  $\frac{3}{8}$ ". Base  $1\frac{1}{8}$ " W x  $\frac{1}{2}$ " H.  $\frac{3}{8}$ " centers. Uses 6-32 x  $\frac{1}{4}$ " binder head screw.  
Prices below are for one type only—not assorted.

Stock No.	Terms. & Type	1-49 Each	50-99 Each	100-249 Each	250-499 Per C	Stock No.	Terms. & Type	1-49 Each	50-99 Each	100-249 Each	250-499 Per C
12A1550	2-141	\$0.19	\$0.16	\$0.12	\$11.78	12A1557	12-141	\$ .86	\$ .72	\$ .58	\$54.72
12A1551	3-141	.25	.21	.17	15.96	12A1456	13-141	.94	.78	.63	59.85
12A1552	4-141	.32	.27	.22	20.52	12A1417	14-141	1.00	.84	.67	63.46
12A1553	5-141	.39	.33	.26	24.70	12A1457	15-141	1.07	.89	.72	68.40
12A1554	6-141	.45	.38	.30	28.50	12A1418	16-141	1.14	.95	.76	72.20
12A1453	7-141	.53	.44	.36	34.20	12A1458	17-141	1.21	1.01	.81	78.95
12A1555	8-141	.59	.50	.40	37.62	12A1419	18-141	1.27	1.06	.85	80.56
12A1454	9-141	.66	.55	.44	41.80	12A1459	19-141	1.34	1.21	.90	85.50
12A1556	10-141	.73	.61	.49	48.36	12A1420	20-141	1.41	1.17	.94	89.30
12A1455	11-141	.80	.67	.54	51.30						

① SERIES 142. Metal to metal spacing over bakelite  $\frac{1}{2}$ ". Base  $1\frac{1}{8}$ " W x  $\frac{5}{8}$ " H.  $\frac{1}{2}$ " centers. Has 8-32 x  $\frac{1}{8}$ " binder head screws.  
Prices below are for one type only—not assorted.

Stock No.	Terms. & Type	1-49 Each	50-99 Each	100-249 Each	250-499 Per C	Stock No.	Terms. & Type	1-49 Each	50-99 Each	100-249 Each	250-499 Per C
12A1566	2-142	\$0.22	\$0.18	\$0.14	\$13.68	12A1572	10-142	\$ .89	\$ .75	\$ .60	\$56.62
12A1567	3-142	.31	.26	.20	19.38	12A1452	11-142	.97	.81	.65	61.75
12A1568	4-142	.39	.33	.26	24.70	12A1573	12-142	1.06	.88	.70	66.88
12A1569	5-142	.47	.39	.31	29.64	12A1422	13-142	1.14	.95	.76	72.20
12A1570	6-142	.55	.46	.37	34.96	12A1423	14-142	1.22	1.02	.82	77.52
12A1439	7-142	.64	.54	.43	40.85	12A1424	15-142	1.31	1.09	.87	82.84
12A1571	8-142	.72	.60	.48	45.80	12A1425	16-142	1.39	1.16	.93	88.16
12A1442	9-142	.80	.67	.54	51.30	12A1426	17-142	1.47	1.23	.98	93.10

## CINCH-JONES SOLDERING LUG STRIPS

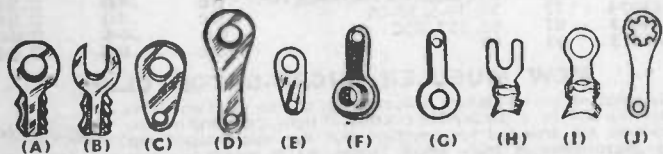


Bakelite strips handy for all types of circuit wiring. Solder coated steel lugs are spaced on  $\frac{3}{8}$ " centers. Mtg. feet have .140" dia. holes. Types 1, 2, 3 have one mtg. foot and no ground lug; type 4 has two mtg. feet with no ground lug; type 5 has one mtg. foot and one ground lug; type 6 has two mtg. ft. and two ground lugs. "No. of lugs" below refers to total number of lugs on a strip, including ground lugs.

Prices below are for one type only—not assorted.

Stock No.	Jones No.	Fig.	No. of Lugs	10 For	100 For	Stock No.	Jones No.	Fig.	No. of Lugs	10 For	100 For
12A1256	51F	1	1	\$0.24	\$2.00	12A1270	55	4	5	\$0.48	\$4.00
12A1258	51T	2	1	.30	2.50	12A1273	56	4	6	.58	8.50
12A1260	52T	2	2	.36	3.00	12A1262	51A	5	2	.20	1.50
12A1263	53T	2	3	.60	5.00	12A1268	52A	5	3	.29	2.00
12A1261	51	3	1	.20	1.50	12A1275	53F	5	4	.24	2.00
12A1267	52	3	2	.25	2.00	12A1282	54C	5	5	.42	3.50
12A1264	53E	3	3	.25	2.00	12A1274	53A	6	5	.60	5.00
12A1265	54B	3	4	.42	3.50	12A1257	54A	6	6	.42	3.50
12A1266	53	4	3	.60	5.00	12A1283	55A	6	7	.48	4.00
12A1269	54	4	4	.42	3.50	12A1259	56A	6	8	1.08	9.00

## SOLDERING LUGS



No.	Type	Lgth.	Hole	100	1000	No.	Type	Hole	100	1000	
12A1286	A	$\frac{3}{8}$ "	6-8	1.11	9.92	12A1294	H	$\frac{7}{8}$ "	8	\$1.11	\$8.92
12A1287	B	$\frac{3}{8}$ "	8	1.16	9.36	12A1296	I	$\frac{7}{8}$ "	10	1.40	10.15
12A1288	C	$\frac{3}{8}$ "	6-8	.84	6.84	12A1297	J	$\frac{1}{8}$ "	$\frac{1}{4}$	2.40	18.67
12A1289	D	$\frac{3}{8}$ "	6	1.80	11.64						
12A1290	E	$\frac{1}{2}$ "	6	.84	6.84						
12A1293	F	$\frac{1}{2}$ "	Rivet	1.09	8.08						
12A1295	G	$\frac{1}{2}$ "	4-6	1.09	8.88						

(J) SHAKEPROOF TYPE

Stock No.	Hole Size	10 Pkg.	100 Pkg.
12A1298	4	29c	\$2.20
12A1299	6	29c	\$2.20
12A1300	8	29c	\$2.20

B-A BARGAIN SPECIAL  
No. 18A1144. 100 Assorted... 69c

## ② JONES NO. 2000 TERMINAL STRIPS

Terminal .019" brass, tin plated—compact and sturdy junction terminal strip. Useful in assembling radio chassis, wiring, etc. Insulation: bakelite. Brackets: steel, cadmium plated. Terminals spaced on  $\frac{1}{8}$ " centers.

Stock No.	Terms. & Type	1-49 Each	50-99 Each	100-249 Per C	250-499 Per C	Stock No.	Terms. & Type	1-49 Each	50-99 Each	100-249 Per C	250-499 Per C
12A1582	2-2002	\$0.07	\$0.06	\$4.40	\$4.18	12A1587	8-2008	\$ .12	\$ .10	\$8.00	\$7.60
12A1583	3-2003	.07	.06	4.80	4.56	12A1461	9-2009	.13	.11	8.80	8.36
12A1584	4-2004	.08	.07	5.60	5.32	12A1588	10-2010	.14	.12	9.20	8.74
12A1585	5-2005	.09	.08	6.00	5.70	12A1462	11-2011	.15	.13	10.00	9.50
12A1586	6-2006	.10	.09	6.80	6.46	12A1589	12-2012	.16	.13	10.40	9.88
12A1460	7-2007	.11	.09	7.20	6.84	12A1463	13-2013	.17	.14	11.20	10.64

## ③ ADAPTER SOLDER TERMINALS FOR JONES BARRIER STRIPS

" $\frac{3}{4}$ " W" type lugs are for wiring above the chassis. "Y" type lugs are for wiring below the chassis.

Stock No.	Type	Fit Strip	1-99 Each	100-249 Per C	250-499 Per C	Stock No.	Type	Fit Strip	1-99 Each	100-249 Per C	250-499 Per C
12A1434	3/4 W	140	\$0.03	\$2.20	\$1.76	12B1329	Y	140	\$0.03	\$2.20	\$1.76
12A1435	3/4 W	141	.04	2.95	2.36	12B1330	Y	141	.04	2.95	2.36
12A1436	3/4 W	142	.04	3.80	2.88	12B1331	Y	142	.04	3.80	2.88

## ④ MARKER STRIPS FOR BARRIER TERMINAL STRIPS

These strips have identical mtg. holes as barrier strips they mount under and leave exposed white numbers which serve to identify the contacts. Made of  $\frac{3}{8}$ " thick black fibre—also serve the purpose of insulating strips and when barriers are mounted on metal surfaces they prevent short circuits when longer screws are accidentally inserted.

HOW TO ORDER: If a marker strip imprinted 1-2 is required for type 2-140 barrier specify B-A Stock No. 12A1500 plus MS-2-140. If a marker strip imprinted 1 to 12 is needed for barrier 12-142, specify B-A Stock No. 12A1500 plus MS-12-142 etc.

Type	Fits 140 Series			Fits 141 Series			Fits 142 Series		
	1-49	50-99	100-249	1-49	50-99	100-249	1-49	50-99	100-249
MS-2	5c	4c	3 $\frac{1}{2}$ c	6c	5c	4c	6c	5c	4c
MS-3	6c	5c	4c	6c	5c	4c	7c	6c	5c
MS-4	6c	5c	4c	7c	6c	5c	8c	7c	6c
MS-5	7c	6c	5c	8c	7c	5c	9c	8c	7c
MS-6	8c	6c	5c	9c	8c	7c	10c	9c	8c
MS-7	8c	7c	6c	10c	9c	7c	11c	10c	9c
MS-8	9c	7c	6c	11c	10c	8c	12c	11c	8c
MS-9	9c	8c	7c	11c	10c	8c	13c	12c	11c
MS-10	13c	11c	9c	15c	12c	10c	17c	14c	11c
MS-11	13c	12c	9c	16c	13c	11c	18c	15c	12c
MS-12	14c	12c	9c	16c	14c	11c	19c	15c	12c
MS-13	15c	13c	10c	17c	15c	12c	20c	17c	13c
MS-14	15c	13c	10c	18c	15c	12c	20c	17c	14c
MS-15	16c	14c	11c	18c	16c	13c	21c	17c	14c
MS-16	16c	14c	11c	22c	19c	15c	25c	21c	17c
MS-17	19c	16c	13c	23c	20c	16c	26c	22c	18c
MS-18	20c	17c	14c	24c	20c	16c			
MS-19	21c	18c	15c	28c	23c	19c			
MS-20	25c	20c	16c	28c	24c	19c			
MS-21	25c	22c	17c						

## ⑤ CINCH SCREW TYPE TERMINAL STRIPS WITH SOLDER LUGS

Ideal for chassis or breadboard layouts. Solder coated brass terminals. .136" dia. mtg. holes. Strips with 1 to 6 lugs are of  $\frac{1}{8}$ " bakelite; 7 to 10 terminals mounted on  $\frac{3}{8}$ " bakelite. Ends of screws are captured to prevent removal. Terminals are spaced on  $\frac{1}{8}$ " centers.

Stock No.	Type & Lugs	Mtg. Centers	1-99 Each
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# Jones Connectors, Transistor Sockets

## SERIES 300 CONNECTORS



Small in size with good separation between contacts, black bakelite insulation rated at 730 RMS volts at 10 amp.  
24 to 33 contact connectors have special long polarizing pin for correct insertion. CSA approved. Average shipping weight 4 oz. When ordering specify both B-A Stock No. and Jones Type No.

### 300 SERIES PLUGS & SOCKETS

#### CABLE TYPE WITH CLAMP

##### ① PLUGS Stk. No. 12A179

##### ② SOCKETS Stk. No. 12A179

Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each	Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each
2	P302CCT	\$ .46	\$ .38	\$ .30	2	S302CCT	\$ .46	\$ .39	\$ .31
3	P303CCT	.49	.41	.32	3	S303CCT	.50	.42	.33
4	P304CCT	.53	.45	.36	4	S304CCT	.54	.45	.36
6	P306CCT	.59	.49	.39	6	S306CCT	.62	.52	.41
8	P308CCT	.65	.54	.43	8	S308CCT	.72	.60	.48
10	P310CCT	.73	.61	.48	10	S310CCT	.80	.67	.54
12	P312CCT	.79	.66	.53	12	S312CCT	.92	.77	.62
15	P315CCT	1.03	.86	.69	15	S315CCT	1.15	.96	.76
18	P318CCT	1.25	1.04	.83	18	S318CCT	1.36	1.14	.91
21	P321CCT	1.47	1.23	.98	21	S321CCT	1.58	1.32	1.05
24	P324CCT	1.73	1.45	1.16	24	S324CCT	1.86	1.55	1.24
27	P327CCT	1.97	1.64	1.31	27	S327CCT	2.08	1.73	1.38
30	P330CCT	2.29	1.91	1.53	30	S330CCT	2.40	2.00	1.60
33	P333CCT	2.45	2.05	1.64	33	S333CCT	2.57	2.14	1.71

#### CHASSIS TYPE WITH ANGLE BRACKETS

##### ③ PLUGS Stk. No. 12A180

##### ④ SOCKETS Stk. No. 12A180

Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each	Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each
2	P302AB	\$ .20	\$ .17	\$ .13	2	S302AB	\$ .22	\$ .18	\$ .14
3	P303AB	.25	.21	.16	3	S303AB	.26	.22	.17
4	P304AB	.27	.23	.18	4	S304AB	.29	.24	.19
6	P306AB	.34	.28	.22	6	S306AB	.36	.30	.24
8	P308AB	.40	.33	.26	8	S308AB	.45	.38	.30
10	P310AB	.45	.38	.30	10	S310AB	.53	.45	.36
12	P312AB	.50	.42	.33	12	S312AB	.62	.52	.41
15	P315AB	.66	.55	.44	15	S315AB	.77	.64	.51
18	P318AB	.82	.69	.55	18	S318AB	.93	.78	.62
21	P321AB	1.03	.86	.69	21	S321AB	1.15	.96	.76
24	P324AB	1.25	1.04	.83	24	S324AB	1.36	1.14	.91
27	P327AB	1.47	1.23	.98	27	S327AB	1.58	1.32	1.05
30	P330AB	1.69	1.41	1.12	30	S330AB	1.81	1.51	1.20
33	P333AB	1.90	1.58	1.26	33	S333AB	2.02	1.68	1.34



#### CABLE TYPE WITH CLAMP-LOCKING

##### ⑤ PLUGS WITH LATCH No. 12A183

##### ⑥ SOCKETS WITH KEEPER No. 12A183

Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each	Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each
2	P302CCT-L	\$ .58	\$ .49	\$ .39	2	S302CCT-K	\$ .59	\$ .49	\$ .39
3	P303CCT-L	.61	.51	.41	3	S303CCT-K	.62	.52	.42
4	P304CCT-L	.66	.55	.44	4	S304CCT-K	.67	.56	.44
6	P306CCT-L	.72	.60	.48	6	S306CCT-K	.74	.62	.50
8	P308CCT-L	.77	.64	.51	8	S308CCT-K	.83	.70	.56
10	P310CCT-L	.84	.70	.56	10	S310CCT-K	.94	.78	.62
12	P312CCT-L	.93	.78	.62	12	S312CCT-K	1.03	.86	.68

#### CHASSIS TYPE WITH FLUSH PLATE MOUNTING

##### ⑦ PLUGS Stk. No. 12A199

##### ⑧ SOCKETS Stk. No. 12A199

Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each	Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each
2	P302-FP	\$ .35	\$ .29	\$ .23	2	S302-FP	\$ .35	\$ .30	\$ .24
3	P303-FP	.38	.32	.25	3	S303-FP	.40	.33	.26
4	P304-FP	.41	.35	.28	4	S304-FP	.43	.36	.28
6	P306-FP	.46	.39	.31	6	S306-FP	.49	.41	.32
8	P308-FP	.53	.44	.35	8	S308-FP	.58	.49	.39
10	P310-FP	.58	.49	.39	10	S310-FP	.67	.56	.44
12	P312-FP	.63	.53	.42	12	S312-FP	.75	.63	.50

##### ⑨ CABLE TYPE PLUG Stk. No. 12A135 with hole in cap

##### ⑩ CHASSIS TYPE SOCKET Stock No. 12A182 With Deep Bracket

Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each	Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each
2	P302FHT	\$ .34	\$ .28	\$ .22	2	S302DB	\$ .52	\$ .44	\$ .35
3	P303FHT	.37	.31	.24	3	S303DB	.56	.47	.37
4	P304FHT	.41	.34	.27	4	S304DB	.59	.50	.40
6	P306FHT	.46	.39	.31	6	S306DB	.67	.58	.44
8	P308FHT	.53	.44	.35	8	S308DB	.75	.63	.50
10	P310FHT	.59	.50	.40	10	S310DB	.87	.73	.56
12	P312FHT	.67	.56	.45	12	S312DB	.92	.77	.62

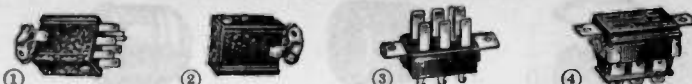
## SERIES 202 PLUGS AND SOCKETS

Polarized, two-conductor connectors, ideal for mike and speaker connections. Knurled nut screws on to matching unit for positive locking connection. CCT has cable clamp, FHT has hole in cap, B mounts in chassis. Specify Stk. No. 12A181 and Jones No. when ordering.



Jones No.	Type	1-49 Each	50-99 Each	100-249 Each
① P202CCT	Cable Plug	\$0.85	\$0.54	\$0.43
② S202CCT	Cable Socket	.86	.55	.44
③ S202CCT-THR	Extension Socket	.88	.73	.58
④ P202FHT	Cable Plug Less Clamp	.52	.44	.35
⑤ S202FHT	Cable Socket Less Clamp	.53	.45	.36
⑥ S202B	Chassis Type Socket	.77	.64	.51
⑦ P202B	Chassis Type Plug	.74	.62	.49

## SERIES 400 CONNECTORS



400 Series. Heavy duty polarized connectors for high power applications. Rated 1100 RMS volts at 15 amps. Plug prongs are 1/8" wide and 1/16" thick, made of phosphor bronze, "knife-switch" type connection. CCT caps are black crystal with fibre lining. Average shpg. wt. 6 oz. Specify B-A Stock No. and Jones Type No. when ordering.

#### CABLE TYPE WITH CLAMP

##### ① PLUG, Stk. No. 12A176

##### ② SOCKET, Stk. No. 12A176

Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each	Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each
2	P402CCT	\$ .78	\$ .65	\$ .52	2	S402CCT	\$ .85	\$ .71	\$ .56
4	P404CCT	.95	.80	.64	4	S404CCT	1.06	.88	.70
6	P406CCT	1.12	.93	.74	6	S406CCT	1.28	1.07	.86
8	P408CCT	1.27	1.06	.85	8	S408CCT	1.51	1.26	1.00
10	P410CCT	1.43	1.20	.96	10	S410CCT	1.73	1.45	1.16
12	P412CCT	1.60	1.34	1.07	12	S412CCT	1.95	1.63	1.30

#### CHASSIS TYPE WITH ANGLE BRACKET

##### ③ PLUG, Stk. No. 12A177

##### ④ SOCKET, Stk. No. 12A177

Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each	Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each
2	P402AB	\$ .50	\$ .42	\$ .33	2	S402AB	\$ .56	\$ .47	\$ .38
4	P404AB	.61	.51	.40	4	S404AB	.73	.61	.49
6	P406AB	.73	.61	.49	6	S406AB	.89	.74	.59
8	P408AB	.84	.70	.56	8	S408AB	1.05	.88	.70
10	P410AB	.95	.80	.64	10	S410AB	1.23	1.03	.82
12	P412AB	1.05	.88	.70	12	S412AB	1.39	1.16	.92

## TRANSISTOR SOCKETS, DIODE HOLDER



#### ① RECTANGULAR TRANSISTOR SOCKETS

Low loss phenolic with push-on mtg. ring. Contacts are beryllium copper, silver plated.  
No. 14B332. 3-Prong. Cinch Type 2H3. Each... 18c 10, Each... 15c  
No. 17A1056. 5-Prong. Cinch Type 2H5. Each... 21c 10, Each... 17c

#### COMBINATION TRANSISTOR SOCKETS

Fits all transistors having 3-pins on .200" dia. circle or straight in line. Molded black bakelite. 3303 is less mtg. ring.  
③ 17B1033. Elco 3301. Saddle Mtg. Net Each... 35c 10, Each... 32c  
④ 17B1034. Elco 3304 Retainer Mtg. Net Each... 24c 10, Each... 22c  
④ 17B1035. Elco 3303 P. C. Mtg. Net Each... 27c 10, Each... 24c  
⑤ Cinch Universal Socket. For use with any transistor with 3 pins. Gold plated copper contacts. Snap-in P.C. mount.  
No. 14A246. Cinch 7-UTS. Net Each... 77c 10, Each... 65c  
⑥ Cinch All-Molded Socket, fits triangular base, 2 x .1" centers, or 3-contact in-line, .048 x .192 contact centers. Bakelite with phosphor bronze contacts.  
No. 14A247. Cinch 2TS-4. Net Each... 17c 10, Each... 14c

#### ⑦ DIODE HOLDER

Has plated brass spring shaped to support most diodes. Makes positive, noiseless contact. Lugs are flanged for soldering.  
No. 14B336. Net Each... 9c 10, Each... 8c

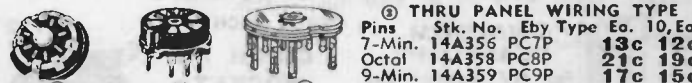
#### ⑧ POWER TRANSISTOR SOCKETS

Wafer type for 2-prong power transistors with 7/8" spacings. Has grounding strap which acts as heat sink. Size 1 1/8" x 1".  
No. 14A337. Cinch Type 2TS-1. Each... 9c 10, Each... 7c  
Same as above except has two mtg. eyelets for easier chassis mounting.  
No. 14A338. Cinch Type 2TS-2. Each... 11c 10, Each... 8c  
⑨ Molded Socket for all power transistors taking E-3 or E-4 base designation. Bakelite base, phosphor bronze contacts.  
No. 14A248. Cinch 2TS-3. Net Each... 9c 10, Each... 7c

#### ⑩ HEAT SINKS

Anodized aluminum insulator wafers for use with power transistors. Have high thermal conductivity and high resistance.  
For 2N179, 2N176, etc. power transistors. 7/8" x 3/8" 4-hole type.  
No. 12A53. Cinch Type 2W-1. Net Each... 25c 10, Each... 20c  
For 2N174, etc. power transistors. 1/2 x 1 1/4" centers. Center bolt hole.  
No. 12A46. Cinch Type 2W-2. Net Each... 25c 10, Each... 20c  
For 2N389, etc. power transistors. 5/8 x 3/8" centers.  
No. 12A47. Cinch Type 2W-3. Net Each... 25c 10, Each... 20c  
⑪ 5-Pin Socket for new navistor tube. Low-loss phenolic base with steel mtg. saddle for snap-in mount. Copper alloy contacts.  
No. 14A355. Cinch 5NS. Net Each... 14c 10, Each... 12c

## PRINTED CIRCUIT SOCKETS



#### ② THRU PANEL WIRING TYPE

Highest quality black molded phenolic. All types mount securely.  
① SNAP-IN TYPE  
Plns Stk. No. Eby Type Ea. 10, Ea.  
7-Min. 17B1053 PC7 11c 10c  
9-Min. 17B1054 PC9 15c 13c

#### ③ WAFER TYPE

Low loss tan phenolic sockets. For surface or thru panel wiring.  
Plns Stk. No. Eby Type Ea. 10, Ea.  
7-Min. 14B295 PC7W 8c 7c  
Octal 14A360 PC8W 18c 16c  
9-Min. 14B296 PC9W 10c 9c



# Amphenol Sockets, Plugs, AC Connectors

## AMPHENOL STANDARD CONNECTORS



"CP" plugs made of black bakelite, for chassis mounting, fits  $1\frac{1}{8}$ " hole. PM and PF connectors are molded black bakelite with steel shell. Rubber grommet in hole.

Fig.	Stock No.	Type	Pins	1-49 Ea.	50-249 Ea.	250-499 Ea.
(1)	12A58	86-CP4	4	\$0.16	\$0.13	\$0.11
(1)	12A69	86-CP5	5	.17	.13	.12
(1)	12A63	86-CP8	8	.19	.15	.13
(2)	12A80	78-PF4	4	.31	.24	.21
(2)	12A81	78-PF5	5	.31	.24	.22
(2)	12A82	78-PF6	6	.33	.26	.23
(2)	12A83	78-PF7	7	.34	.26	.24
(2)	12A85	78-PF8	8	.35	.25	.23
(2)	12A86	78-PF9	9	.35	.27	.25
(2)	12A87	78-PF11	11	.37	.29	.26
(3)	12A72	86-PM4	4	.34	.27	.24
(3)	12A73	86-PM5	5	.35	.27	.25
(3)	12A74	86-PM6	6	.36	.28	.25
(3)	12A75	86-PM7	7	.37	.29	.26
(3)	12A76	86-PM8	8	.37	.29	.26
(3)	12A77	86-PM9	9	.38	.29	.27
(3)	12A78	86-PM11	11	.41	.32	.29
(3)	12A79	86-PM11	11	.41	.32	.29
No. 12A91, Cable Clamp for above (not shown)				.10	.08	.07

## AMPHENOL AC CONNECTORS



Molded of high dielectric black bakelite, U/L approved, rated 15 amps at 110 volts. Fig. 1 and 3 have metal shell with built-in cable clamp. Fig. 3 mounts in  $1\frac{1}{8}$ " hole on  $1\frac{1}{2}$ " mtg. centers. Fig. 4 and 5 snap mount in  $1\frac{1}{8}$ " hole. Includes mounting ring.

Fig.	Stock No.	Type	1-49 Each	50-249 Ea.	250-499 Each
(1)	12B89	61-M11	\$0.51	\$0.40	\$0.36
(2)	12B90	61-F11	.49	.38	.34
(3)	12A354	61-MIP-61F	.28	.21	.19
(4)	12A121	61-M	.27	.21	.19
(5)	12A122	61-F	.25	.20	.18

## AMPHENOL POLARIZED AC CONNECTORS



Heavy duty outlet type plugs and receptacles, U/L approved, for use with home appliances and electric power tools. Third prong is grounded for safety, eliminating hazardous shocks due to possible shorts in equipment. Made of black phenolic bakelite, contacts and ground prong are copper alloy, meets MIL-N-14-F specifications. Caps are cad. plated steel, mounting plate is nickel plated steel. Rated at 15 amp, 125 V. AC. Type 160-2 receptacle mounts in  $1\frac{1}{8}$ " hole, has  $1\frac{1}{2}$ " mtg. centers. Cable type are  $1\frac{1}{4}$ " long with either cable clamp or grommet.

Fig.	Stk. No.	Type	1-24 Each	25-99 Each	100-249 Each
(1)	12A1	160-2-MIP Receptacle	\$0.72	\$0.56	\$0.50
(2)	12A2	160-3 MIP Plug	1.12	.87	.79
(3)	12A4	160-7 Cable Plug-Grommet	1.19	.93	.84
(4)	12A41	160-9 Cable Plug-Cable Clamp	1.25	.98	.89
(5)	12A3	160-6 Cable Socket-Grommet	.81	.63	.58
(6)	12A33	160-8 Cable Socket-Cable Clamp	.88	.68	.62

## GRID & PLATE CAPS



Size  $\frac{1}{4}$ " fits metal or GT tubes, size  $\frac{3}{8}$ " fits std. glass tubes, also type 807, size  $\frac{1}{2}$ " fits 866 and other transmitting types. Insulated types recommended for high voltage or transmitting tubes.

Stock No.	Size	Fig.	Each
12A1349	$\frac{3}{8}$ " National	1	4c
18A220	$\frac{1}{2}$ " National	2	5c
12A1350	$\frac{1}{2}$ " National	2	5c
12A1356	$\frac{1}{2}$ " Ins. Millen	3	24c
17A1041	$\frac{3}{8}$ " Ins. Millen	3	24c
12A1357	Comb. $\frac{3}{8}$ - $\frac{1}{4}$ "	4	13c

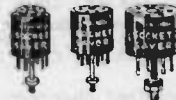


## WALDOM "EASYPAC"

For HV rectifier and horizontal output tube cap replacements. Simplifies and improves installation.

No. 14B497.  $\frac{3}{8}$ " Cap for 1B3, 6CD6.  
No. 14B498.  $\frac{1}{2}$ " Cap for 6BQ6.  
Choice Each. .23c 10, Each. .20c

## POMONA SOCKET SAVERS



Protects tube tester sockets from wear caused by repeated use. Assures positive contact to tube pins and preserves tester accuracy, without time-consuming original socket replacement. Saver sockets plug-in, require no wiring.

No. 17B259. SS-7. For 7-pin miniature sockets.  
No. 17B260. SS-8. For 8-pin octal sockets.  
No. 17B261. SS-9. For 9-pin miniature sockets.

CHOICE EACH.....\$1.72

## CINCH AC SOCKET



Fits standard AC plugs. UL rated 15 A., 110 V. Mounts in  $1\frac{1}{8}$ " x  $1\frac{1}{8}$ " hole. Mounting ctrs.  $1\frac{1}{8}$ ". Type 2R2.

Net Each 100 For \$8.70  
No. 12A899. 15c

## AMPHENOL SOCKETS AND MOUNTS



Quality engineered sockets for every need. MIP, RS and S type are black phenolic, RSS is steatite. MIP type has molded-in steel mounting plate. Type 78 adaptor sockets are same size as S type but fit 7 and 9 pin miniature tubes.

Fig.	Stock No.	Type	Pins	Mtg. Centers	Mtg. Hole	1-49 Each	50-249 Each	250-499 Each
(1)	12A93	77MIP4	4	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	\$0.13	\$0.10	\$0.09
(1)	12A94	77MIP5	5	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.15	.11	.10
(1)	12A95	77MIP6	6	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.17	.13	.12
(1)	12A96	77MIP7	7	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.18	.14	.13
(1)	12A97	77MIP7L	7L	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.18	.14	.13
(1)	12A98	77MIP8	8	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.15	.12	.11
(1)	12A1440	77MIP9	9	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.17	.13	.12
(1)	12A1441	77MIP11	11	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.20	.16	.14
(1)	12B166	77MIP12	12	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.20	.16	.14
(1)	12B167	77MIP20	20	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.51	.40	.38
(1)	12A100	88-8	8	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.16	.12	.11
(1)	12A101	88-8X	Loct.	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.21	.16	.15
(2)	12A104	78-R34	4	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.17	.13	.12
(2)	12A105	78-R35	5	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.19	.15	.13
(2)	12A106	78-R36	6	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.20	.15	.14
(2)	12A110	78-R58	8	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.19	.15	.13
(2)	12A112	49-R384	4	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.58	.45	.41
(2)	12A113	49-R385	5	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.60	.47	.42
(2)	12A116	49-R387L	7L	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.64	.50	.45
(2)	12A117	49-R388	8	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.60	.46	.42
(3)	12A48	78-S4	4	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.12	.10	.09
(3)	12A49	78-S5	5	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.13	.10	.09
(3)	12A50	78-S6	6	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.15	.12	.11
(3)	12A54	78-S8	8	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.15	.11	.10
(3)	12A56	78-S9	9	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.17	.13	.12
(3)	12A57	78-S11	11	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.19	.15	.13
(3)	17B765	78-A7P	7 Min.	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.33	.25	.23
(3)	17B766	78-A9P	9 Min.	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.32	.25	.23

"S" SOCKET MOUNTINGS. Fits all "S" type sockets except 9 and 11 pin. Steel mtg. plate has slotted holes with  $1\frac{1}{8}$ " to  $1\frac{1}{4}$ " centers. Above surface mount raises socket  $\frac{1}{8}$ " above surface,  $1\frac{1}{4}$ " dia. Below surface mount extends  $1\frac{1}{8}$ " below surface. Mounts in  $1\frac{1}{8}$ " hole on  $1\frac{3}{4}$ " centers.

Fig.	Stock No.	Description	1-49 Ea.	50-249 Ea.	250-499 Ea.
(4)	12A66	Mounting Plate	\$0.05	\$0.04	\$0.03
(5)	12A67	Above Surface Shell	.14	.11	.10
(6)	12A70	Below Surface Shell	.11	.09	.08

## AMPHENOL MINIATURE PLUGS AND SOCKETS



78 series and 86 series mount in  $\frac{5}{8}$ " hole with push-on spring. Plugs can be chassis mounted or wired to cable. 7-pin sockets fit 7-pin miniature tubes. 78-1M socket mounts in  $\frac{3}{8}$ " hole. 78-1M, 78-1P, 71-1M available in Red or Black. 71 Series are less retainer ring. 78-1M and 71-1M have  $\frac{1}{8}$ " dia. pins. 78-1P has .080" dia.

Fig.	Stock No.	Type	Pins	1-49 Each	50-249 Each	250 Up Each
(1)	12A140	78-S3S	3	\$0.09	\$0.07	\$0.06
(1)	12A141	78-S4S	4	.12	.09	.10
(1)	12A125	78-S5S	5	.15	.11	.10
(1)	12A118	78-S6S	6	.16	.12	.11
(1)	12A123	78-7P	7	.21	.16	.15
(2)	12A138	86-CP3S	3	.11	.09	.08
(2)	12A139	86-CP4S	4	.11	.09	.08
(2)	12B171	71-S3	3	.14	.11	.10
(2)	12B172	71-S5	5	.14	.11	.10
(3)	12B268	78-1M	1	.10	.08	.07
(3)	12B269	78-1P	1	.10	.08	.07
(4)	12B270	71-1M	1	.08	.06	.05

## AMPHENOL MINIATURE SHIELDED CONNECTORS

Shells are cadmium plated brass  $1\frac{1}{8}$ " dia. Inserts are bakelite. Fig. ① is flanged female plug; Fig. ② is male plug, both  $1\frac{1}{8}$ " long; Fig. ③ is female chassis socket.

Fig.	Stock No.	Type	Pins	1-49 Each	50-99 Each	100-249 Each
(5)	12A148	91-MPP3L	3	\$0.38	\$0.30	\$0.27
(5)	12A149	91-MPP4L	4	.42	.32	.29
(6)	12A142	91-MPM3L	3	.35	.27	.24
(6)	12A143	91-MPM4L	4	.36	.28	.25
(6)	12B22	91-MPM5L	5	.39	.30	.27
(6)	12B23	91-MPM6L	6	.41	.32	.29
(7)	12A150	78-PCG3	3	.19	.15	.14
(7)	12A151	78-PCG4	4	.23	.18	.16
(7)	12B24	78-PCG5	5	.23	.18	.16
(7)	12B25	78-PCG6	6	.27	.21	.19

## SURFACE MOUNTED BREADBOARD SOCKETS



Ideal for schools, hobbyists. For experimental circuit design. Insulated base prevents shorts. (Made by Pomona)

Plns	Stk. No.	Type	Net Ea.	10, Ea.
7-Min.	17B262	XS-7	48c	44c
7-Min.	17B263	XS-8	58c	51c
9-Min.	17B264	XS-9	56c	51c



# Cinch\_SOCKETS, Switchcraft Plugs & Jacks

## CINCH-JONES MINIATURE SOCKETS & SHIELDS



**7-PIN MINIATURE SOCKETS**  
Unshielded types are bottom mount. Shielded types are top mount. Both mount in  $\frac{3}{8}$ " hole with  $\frac{7}{8}$ " mtg. ctr.

**9-PIN MINIATURE SOCKETS**  
Unshielded type are bottom mount, shielded type are top-mount. Mounts in  $\frac{3}{4}$ " hole with  $1\frac{1}{8}$ " mtg. ctr.

Fig.	Stock No.	Type	Body	1-99 Each	100 For	Fig.	Stock	Type	Body	1-99 Each	100 For
(1)	17A768	7EB	Bakelite	9c	\$ 6.00	(1)	17A770	9EB	Bakelite	12c	\$ 8.00
(1)	17C718	7EM	Mica	11c	7.20	(1)	17A771	9EM	Mica	14c	9.20
(2)	17A772	7XB1	Bakelite	17c	11.20	(2)	17A775	9XB	Bakelite	19c	12.80
(2)	17A773	7XM1	Mica	19c	12.80	(2)	17A776	9XM	Mica	20c	13.60
(2)	17A774	7XC	Ceramic	32c	21.20	(2)	17A777	9XC	Ceramic	30c	20.00

**TUBE SHIELDS FOR ABOVE**  
Durable steel shields with "J-Slot" for locking onto base. Tube holding spring on top.

For 7-Pin Miniature Sockets					For 9-Pin Miniature Sockets				
Stock No.	Type	Size	1-99 Each	100 For	Stock No.	Type	Size	1-99 Each	100 For
17A779	7S2	1 1/2" L.	11c	\$ 7.60	17A1065	9S1	1 1/2" L.	14c	\$ 9.60
17A780	7S3	1 3/4" L.	12c	8.00	17A1064	9S2	1 3/4" L.	14c	8.60
17A778	7S4	2 1/4" L.	18c	12.00	17A1063	9S3	2 1/4" L.	28c	18.40

**MOLDED OCTAL SOCKETS**

**Saddle Mount Type**  
Molded from high dielectric low-loss bakelite. Steel saddle has 4 ground lugs. Mounts in 1" hole.  $1\frac{1}{8}$ " mtg. centers.

**All-Molded Type**  
Complete one-piece construction, body and saddle from a single casting. Has  $1\frac{1}{8}$ " mtg. centers. Fits in 1" hole.

Stk. No.	Type	1-99 Ea.	100 For	Stk. No.	Type	1-99 Ea.	100 For
17C713	8AB Black	<b>\$ .09</b>	<b>\$ 6.00</b>	17C715	8XB Black	<b>\$ .10</b>	<b>\$ 6.00</b>
17C714	8AM Mica	<b>.12</b>	<b>8.00</b>	17C716	8XM Mica	<b>.13</b>	<b>8.00</b>

**JAN SOCKETS AND SHIELDS**  
Material and finish constructed to rigid requirements of MIL-12883A. Unshielded type is bottom-mount, shielded is top mount. 7-pin mounts in  $\frac{5}{8}$ " hole with  $\frac{7}{8}$ " mtg. centers. 9-pin type mounts in  $\frac{3}{4}$ " hole with  $1\frac{1}{8}$ " mounting centers. Octal type mounts in  $1\frac{1}{8}$ " hole with  $1\frac{1}{2}$ " mtg. centers.

**7-PIN JAN MINIATURE SOCKETS**

Fig.	Stock No.	Type	Body	MIL Type	1-99 Each	100 For
(1)	14A322	7JM-3	Mica	TS102P03	\$0.21	\$14.00
(1)	14A323	7JC-3	Ceramic	TS102C03	.33	22.00
(2)	14C339	7JC-2	Ceramic	TS102C01	.31	20.80
(2)	14C340	7JM-2	Mica	TS102P01	.24	16.00

**TUBE SHIELDS FOR ABOVE**

No.	Type	1 1/2" L.	1 3/4" L.	2 1/4" L.	1-99 Each	100 For
No. 14C343	7S2-1	1 1/2" L.	1 3/4" L.	2 1/4" L.	\$0.18	\$12.00
No. 14C344	7S3-1	1 3/4" L.	1 3/4" L.	2 1/4" L.	.18	12.00
No. 14C345	7S4-1	2 1/4" L.	2 1/4" L.	2 1/4" L.	.19	12.80

**9-PIN JAN MINIATURE SOCKETS**

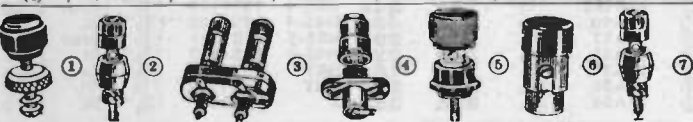
Fig.	Stock No.	Type	Body	MIL Type	1-99 Each	100 For
(1)	14A324	9JM-3	Mica	TS103P03	\$0.23	\$15.20
(1)	14A325	9JC-3	Ceramic	TS103C03	.36	24.00
(2)	14C342	9JM-2	Mica	TS103P01	.27	18.00
(2)	14C341	9JC-2	Ceramic	TS103C01	.36	24.00

**TUBE SHIELDS FOR ABOVE**

No.	Type	1 1/2" L.	1 3/4" L.	2 1/4" L.	1-99 Each	100 For
No. 14B349	9S1-1	1 1/2" L.	1 3/4" L.	2 1/4" L.	\$0.19	\$12.80
No. 14B350	9S2-1	1 3/4" L.	1 3/4" L.	2 1/4" L.	.21	14.00
No. 14B351	9S3-1	2 1/4" L.	2 1/4" L.	2 1/4" L.	.23	15.20

**OCTAL SADDLE MOUNT JAN SOCKETS**

Fig.	Stock No.	Type	Body	MIL Type	1-99 Each	100 For
(4)	14B352	8JC-2	Ceramic	TS101C01	\$0.78	\$52.00
(4)	14B353	8JM-2	Mica	TS101P01	.38	25.60



**H. H. SMITH NO. 266**  
 $\frac{1}{2}$ " dia. bakelite head,  $8/32$ " brass threaded insert. Red or black. 12A619. Each... **18c**

**H. H. SMITH NO. 267**  
Phenolic, 5-way connections. Brass inserts head & washer. Metal insulated from chassis. For panels  $\frac{1}{8}$ " to  $\frac{1}{4}$ " dia.,  $\frac{1}{2}$ " mtg. hole. 30 amps 2000 V. AC. Red or Black. No. 12A603. Ea. \$3c 10, Ea. 29c

**NATIONAL FWH**  
Low-loss for high frequency. Mounts on any panel. Take banana plugs at top, guy wire at bottom simultaneously. No. 17A1068. Each... **\$1.10**

**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. Availability of 6 colors provides more attractive panels and easier circuit identification. Mounts in panels  $\frac{1}{8}$ " to  $\frac{1}{4}$ " thick. Has 10-32 threaded stem with 2 hex nuts. Overall length  $1\frac{1}{2}$ ",  $\frac{3}{8}$ " dia. Specify color: Red, Black, Green, Yellow, White, or Blue. No. 12B600. Choice Each... **40c** 100, Each... **34c**

**MILLEN 37001 HV**  
Black bakelite insulated bushing extends through chassis. Single conductor fully enclosed.  $\frac{1}{2}$ " dia. mtg. hole. Specify Red or Black. No. 17A1067. Each... **48c**

**EBY BINDING POSTS**  
With non-removable tops.  $\frac{1}{2}$ " dia. head, 6-32x $\frac{3}{8}$ " long stem.  $\frac{1}{2}$ " high. Ensign No. 38. Insulated, shoulder for centering. Mounts in  $\frac{1}{4}$ " hole. No. 12A1030. Each... **33c**  
Spring Type 62 M. Black molded bakelite top  $\frac{1}{2}$ " dia. x  $\frac{1}{4}$ " high.  $\frac{3}{8}$ " hole in nickel plated neck for wire. Tapped for 6-32 screw.  $\frac{3}{8}$ " high. No. 12B1021. Each... **38c**

## TOP QUALITY SWITCHCRAFT PLUGS AND JACKS



**MILITARY TYPE PLUGS**  
Meets the armed services MIL-P-642(A) specifications. PJ-055B fits standard  $\frac{1}{4}$ " 2-cond. jacks. PJ-068 fits .206" dia. 3-cond. jack. Employ lug terminals attached internally with brass screws. Shells MIL Spec. plastic.

Stk. No.	Type	Cond.	Switchcraft	1-9 Ea.	10-49 Ea.	50 Ea.
(1) 18B155	PJ-055B	2	440	<b>\$0.82</b>	<b>\$0.76</b>	<b>\$0.70</b>
(2) 12A449	PJ-068	3	480	<b>2.12</b>	<b>1.94</b>	<b>1.80</b>

**DIAMETER "LITTEL-PLUGS"**  
Shell  $\frac{1}{2}$ " dia.,  $1\frac{1}{8}$ " long. Screw terminal types supplied with 3-48 screws. Solder types have anchor for shielded wire. Shielded shells are brass, nickel plated.

Stk. No.	Type	Shell	Term.	Conductors	Net Each	10, Each
12B252	240	Black	Screw	2	<b>44c</b>	<b>41c</b>
12B253	245	Red	Screw	2	<b>44c</b>	<b>41c</b>
12B254	270	Brass	Screw	2	<b>62c</b>	<b>57c</b>
12A440	250	Black	Solder	2	<b>41c</b>	<b>38c</b>
12A441	255	Red	Solder	2	<b>41c</b>	<b>38c</b>
12A442	280	Brass	Solder	2	<b>69c</b>	<b>54c</b>
12A447	267	Black	Solder	3	<b>62c</b>	<b>57c</b>
12A448	297	Brass	Solder	3	<b>76c</b>	<b>70c</b>

**MINIATURE PLUG & JACK**  
Two conductor precision cord connectors. Molded plastic case cements together. Size  $\frac{1}{2}$ " W. x  $\frac{1}{8}$ " T.  $1\frac{1}{8}$ " L.

12A289 Plug PJ291	Each	<b>35c</b>	10 Each	<b>32c</b>
12A290 Jack JJ048	Each	<b>47c</b>	10 Each	<b>43c</b>

**3-CONDUCTOR .206" FLAT PLUG**  
Used on mobile radio equipment where space is at a premium. Black plastic handle, screw terminals. Nylon spacers in finger. No. 12A292. Type S-230. Net Each... **\$1.05**

**SWITCHCRAFT "LITTLE-JAX"**  
Compact jacks of highest quality. Mount in  $\frac{3}{8}$ " hole on panels up to  $\frac{3}{8}$ " thick. Dia.  $\frac{3}{4}$ ". Depth behind panel 1".

**TWO CONDUCTOR—1/4" DIA.**  
Stk. No. 11 Type Each 10 Ea. 12A398. 12B Ea. 32c 10 Ea. 30c  
12A396 11 Open Ckt. 24c 22c  
12A397 12A Closed Ckt. 27c 24c 12A451. C12B Ea. 41c 10 Ea. 38c

**THREE CONDUCTOR—1/4" DIA.**  
12A451. C12B Ea. 41c 10 Ea. 38c

**SUB-MINIATURE PLUGS AND JACKS**  
Used in almost all transistor radios. Only  $\frac{1}{32}$ " size of "Littel-Jax" and "Littel-Plugs". Jack mounts in  $\frac{1}{4}$ " hole in panels up to  $\frac{1}{8}$ " thick. Plug is 2-cond. Dia.  $\frac{3}{8}$ " at shell, length  $1\frac{1}{8}$ " overall. For  $\frac{1}{8}$ " or smaller cable.

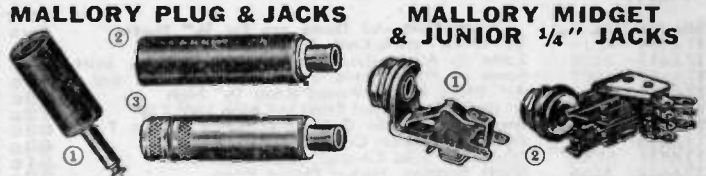
(1) No. 12B426. Type 41. Open Circuit Jack. Each... 24c	10, Each... 22c
(1) No. 12B427. Type 42A. Closed Circuit Jack. Each... 27c	10, Each... 24c

**"TINI-PLUGS"**  
WITH SCREW TERMINALS WITH SOLDER TERMINALS

12B420 740 Bik. Tennite... 44c	12B423 750 Bik. Tennite. Ea. 41c
12B421 745 Red Tennite... 44c	12B424 755 Red Tennite. Ea. 41c
12B422 770 Brass, N.P... 62c	12B425 780 Brass, N.P. Ea. 59c

**"MICRO" PLUG AND JACK**  
Ultra-miniaturized version of Tini-plugs above. Plug is  $1\frac{1}{8}$ " long,  $\frac{1}{4}$ " O.D. with .097" dia. finger. Jack is  $\frac{1}{8}$ " long, mounts in  $\frac{1}{8}$ " hole on panels up to  $\frac{1}{8}$ " thick. Both 2-cond. Jack is closed circuit.

(1) No. 12A287. 850 Black Plug. Each... 45c
(1) No. 12A288. TR-2A. Jack. Each... 27c



**MALLORY PLUG & JACKS**  
Screw terminal 2-cond. plugs and jacks, will take wire or phone tips. Type 75 plug and 100 jack has bakelite shell, 100N and 100A have shielded brass nickel plated. 100A is two-piece with cable clamp.

Fig.	Stk. No.	Type	Ea.	10 Ea.
(1)	12A361	75-Plug	<b>\$ .44</b>	<b>\$ 4.40</b>
(2)	12A365	100-Jack	<b>.82</b>	<b>.78</b>
(3)	12A445	100N-Jack	<b>1.06</b>	<b>.97</b>
(4)	12A446	100A-Jack	<b>1.47</b>	<b>1.35</b>

**MALLORY HEAVY-DUTY MILITARY TYPE JACKS**

Midget A1 No. 12A381	Each 10 Ea.	38c 35c
Midget A2 No. 12A382	Each 10 Ea.	47c 43c
Midget A2A No. 12A383	Each 10 Ea.	56c 51c
Junior 702B No. 12A379	Each 10 Ea.	56c 51c
Junior 703B No. 12A380	Each 10 Ea.	59c 54c
Junior 704B No. 12A306	Each 10 Ea.	68c 62c
Junior 705 No. 12A377	Each 10 Ea.	73c 68c

Open circuit like A1 in diagram at right. Fits standard plugs. Type SC1A. No. 12A384. EACH... **35c**  
10 Lots, Each... **32c**  
Three-conductor like 702B in diagram at right. For plugs WE109, PJ-068, PL68, PL168, etc. No. 12A385. Type SCA2B. EACH... **41c**  
10 Lots, Each... **38c**



# Knobs, Dials and Dial Plates



MCN

ICM Illuminated

10039

## NATIONAL VERNIER TUNING DIALS WITH BLANK SCALES FOR CALIBRATION

Highest quality, for receivers, oscillators, etc. Both have 0-100 180° logging scale in addition to blank scales, smooth 5 to 1 velvet vernier and plastic pointers. For 1/4" shafts. Finished in professional black. Wt. 1 lb.

No. 29A73. MCN 2 3/4 x 3 7/8". Each ..... \$7.20  
 No. 29A74. ICM 5 1/8 x 7 1/4". Each ..... \$7.80

## THE POPULAR MILLEN MIDGET DIAL WITH PRECISION 8:1 RATIO

Right for today's miniature size equipment. Calibrated 0-100 plus 5 blank write-in scales. Only 4 x 3 1/4". Flat black. Fits 1/4" shafts. Shpg. wt. 1 lb. No. 10039. Millen 10039. Net Each ..... \$3.24

## GROTH TURN COUNT DIAL

For use on multi-turn devices such as roller coil Inductance, inductances, multi-turn potentiometers and vacuum capacitors. Molded black bakelite with logging card space.

Knob dial is divided into 100 lines, lower numeral wheel registers at each turn of knob dial, upper numeral wheel at each 10 turns, thereby registering fractional turns to 99.9. Increases clockwise, permits exact return to any point.

Mounts on front panel by 4 corner screws or the shaft bushing. Has removable 1/4" shaft extending 1 1/2" behind dial. Dial case measures 2" W, 4" H, 3/8" thick. Shpg. wt. 8 oz.

No. 29A64. TC2 Dial (2 1/2" dial dia.) Net Each ..... \$5.50  
 No. 29A65. TC3. (3" dial dia.) Net Each ..... \$6.75  
 No. 29A66. TCS Spinner Handle. Net Each ..... 75c



## DAVIES ELECTRONIC INSTRUMENT KNOBS

Modern fluted, skirled style like used on most professional electronic equipment. Flawlessly molded of very durable, heat resistant black plastic, glass finished, with white filled pointer line on top and skirt of two smaller sizes, on skirt only of largest. Fig. 1 for dual shaft concentric controls, is combination of type 1910 and 1920 sizes. All are set screw type for 1/4" shaft.

Fig.	Stk. No.	Type	Size	Net Each	10 Each
1	12A1222	1910	3/4" D, 1/2" H	\$0.14	\$0.13
2	12A1224	1920	1 1/4" D, 3/4" H	.15	.14
3	12A1226	1930	1 1/2" D, 7/8" H	.15	.14
4	12A1228	Dual	3/4" x 1 1/4"	.27	.25

## MILLEN MIDGET KNOBS-COUPERS FOR 1/8 INCH SHAFTS



Stk. No	Mfg. No.	Description—All Items are for 1/8" Shafts	Net Each
17A614	A019	1/4" Black Plastic Knob 3/8" high, brass insert	36c
17A615	A018	Same as A019 above, except with 3/8" dia. skirt	39c
17A616	A007	Same as A019 above, except with 3/8" dia. dial	42c
17A617	A006	3/4" Black Plastic Fluted Knob 1/2" high	48c
17A618	A015	1" Black Fluted Dial Knob 1/2" high 180° CW	72c
17A619	M001	Insulated Flexible Coupler—Universal Joint Type	63c
17A620	M017	Insulated Flexible Coupler, 1/8" L, 1/8" Dia.	63c
17A621	M008	Insulated Solid Coupler, brass Inserts	51c
17A622	A066	Shaft Bearing, Nickel Plated Brass	36c
17A623	M003	Solid Nickel Plated Brass Coupler	33c
17A624	A061	Shaft Lock, Nickel Plated Brass	39c
17A625	A062	Shaft Lock with Knurled Thumb-nut	48c
12A6	....	1/8" Brass Shafting—12" Lengths	24c

## INDICATOR EYE UNITS

For adapting "Magic Eye" tubes to FM radio tuning, signal tracers and volume or modulation level indicators. Includes tube socket, 22" cable, adjustable mounting bracket, bronze escutcheon and hardware. Tube Not Furnished.

No. 17A759. 58-MEA-6. Assembly for 6-prong tube ..... \$1.98  
 No. 17A760. 58-MEA-8 Assembly for Octal tube ..... \$2.78

## CLOCK-RADIO KNOB KIT

- SAVES TIME TRYING TO FIND EXACT DUPLICATES
- REPLACE ALL KNOBS WITH NEW MATCHING SET



**99c**  
Kit of 25

Handy Kit of 25 Miniature Knobs. 5 each white, black, red, brown and clear. Fit 1/8" split shafts on clocks, electric range controls, clock radios, etc. 3/8" dia., 1/2" long. Import Savings.

No. 17B143. Per Kit of 25. Special ..... 99c



## TEKNI-CAL PANEL MARKING DECAL SETS

ADD CUSTOM PROFESSIONAL APPEARANCE TO EQUIPMENT

• Economical • Permanent • Neat Appearance  
 Quick, easy, transfer labels for permanent marking of Electronic Instruments and equipment. Many sets contain 1000 or more marks, titles, symbols, etc., of appropriate sizes for their purpose. Alphabet sets include 1/8", 1/4", 3/8" and 1" complete sets of letters and numerals.

Stk. No.	Description	Color	Each	Stk. No.	Description	Color	Each
20B83	Aircraft	White	\$5.95	20A350	Hi-Fi Audio	Gold	1.85
20B156	Alphabet	White	1.65	20B78	Instrument	White	1.65
20B217	Alphabet	Black	1.65	20A352	2" Meter Dials	White	1.75
20B218	Alphabet	Gold	1.65	20A353	3" Meter Dials	White	1.85
20A170	Alphabet	Red	1.65	20B72	Oscilloscope	White	1.65
20B73	Audio	White	1.65	20B77	Rcvrs., Ham	White	1.65
20A172	Audio	Black	1.65	20B219	Servicemens	Gold	.75
20A173	Audio	Gold	1.65	20B220	Servicemens	White	.75
20B75	Dials	White	1.85	20B74	Television	White	1.65
20A351	Dials	Black	1.85	20B76	Transmitters	White	1.65
20A349	Hi-Fi Audio	White	1.85	20A355	VTVM	White	1.65
20A175	Hi-Fi Audio	Black	1.85	20A354	Work Shop	Black	1.65

## FINISHING SOLVENT FOR TEKNI-CAL TRANSFERS

Dissolves the clear background material on which transfers are imprinted and permanently adheres them to mounting surface. Produces very finished appearance. 1 oz.

No. 20A176. Tekni-Solv. Net Each ..... 60c

## SMARTLY STYLED INSTRUMENT KNOBS



Lustrous black molded bakelite with white filled pointer line. For 1/4" shaft. All are set screw type. \*Indicates brass insert type.

Fig.	Stk. No.	Size	Color	Each	10, Ea.	Fig.	Stk. No.	Size	Color	Each	10, Ea.
1	12B26	1 1/2"	Bl.	12c	11c	7	12A45	1 1/4"	Bl.	9c	7c
2	12B27	1 1/2"	Bl.	14c	12c	7	12A44	1 1/4"	Bl.	9c	7c
3	12A919	1 1/2"	Bl.	11c	10c	7	12B1033*	1 1/4"	Bl.	12c	11c
4	12A920	1 1/2"	Bl.	10c	9c	7	12A43	2"	Bl.	15c	13c
5	12A692	1"	Bl.	10c	9c	7	12A42	2"	Red	16c	14c
6	12A693	1"	Bl.	13c	12c	7	12B1034*	2"	Bl.	19c	17c

## QUALITY KNOBS for EVERY PURPOSE



Type	Stk. No.	Dia.	Color	Each	10, Ea.
1	12A1227	1 1/2"	Blk.	10c	9c
2	12A1233	1 1/2"	Ivory	10c	9c
2	12A1234	1 1/2"	Ivory	11c	10c
2	12A1235	1 1/2"	Red	11c	10c
2	12A1236	1 1/2"	Blk.	10c	9c
6	12A664	1 1/2"	Chrome	10c	9c

## BLACK FLUTED KNOBS NATIONAL KNOBS



Fig.	Stk. No.	Size	Each	10, Ea.
1	12B432	1 1/2"	30c	34c
2	12A40	2 1/2"	47c	43c
3	12A37	1 1/2"	35c	29c
3	12A38	1 1/2"	35c	32c
3	12A34	1 1/2"	20c	18c
3	12A35	1 1/2"	24c	22c
3	12A36	2 1/2"	38c	35c

## "DRESS-UP" CONTROL KNOBS

### IMPORTED TOP QUALITY AT BIG SAVINGS



Trim, functionally styled, in keeping with the best in Hi-Fi equipment, tuners, receivers, etc. Attractive fluted taper cylinder of solid color plastic has natural or gold aluminum trim ring in recessed face. All have white indicator line opposite set screw. For 1/4" shafts. Large size 1 1/8" dia., 7/8" D; Med. 1 3/8" dia., 1 1/16" D; Small 1" dia., 1 1/16" D.

Body/Ring	Large	Medium	Small	Net Each	6 Lots, Each
Black/Alum.	17B595	17B573	17B568	39c	36c
Black/Gold	17B585	17B571	17B567	33c	29c
Grey/Alum.	17B596	17B574	17B569	27c	24c
Ivory/Gold	17B597	17B584	17B570		
Brown/Gold	17B630	17B631	17B632		

## TITLE PLATES FOR AUDIO AND HIGH-FIDELITY EQUIPMENT

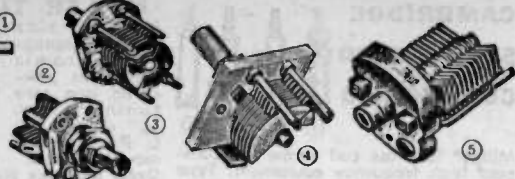
Beautifully anodized bronze tone aluminum. Harmonizes with dark or blond tones. Sizes 2x2 1/4" with 3/8" center hole. Order by title and stock number: Volume, Tone, Bass, Treble, Tape, Mike, Blank. Knobs to 1 3/8" dia. No. 17B998. Choice, Each (Specify Titles Wanted) .44c



# Variable Condensers—Dial Accessories



**POPULAR TINY-MITE UHF VARIABLE**



## ④ HAMMARLUND HF MICROS

Very efficient in critical high frequency circuits. Steatite insulation. Equipped with special wide front bearing. Plate spacing .015". \*Have .045 spacing.

Stock No.	Mfr's Type	Max. Mmf.	Min. Mmf.	NET EACH
17A84	HF-15	17.5	2.8	\$1.14
17A85	HF-35	36	3.2	1.26
17A86	HF-50	52	3.7	1.31
17A87	HF-100	102	5.3	1.49
17A88	HF-140	142	6.3	1.74
17B89	*HF-15-X	15	3.6	1.29
17A90	*HF-30-X	30	5.2	1.43

### HFD-DUALS

17A99	*HFD-15-X	16 to 3.8		\$4.55
17B97	*HFD-30-X	28.5 to 5		4.66

## ⑤ HAMMARLUND APC MICROS

Particularly adaptable to S.W. Steatite base. Air gap .015". Screwdriver adjustment.

Stock No.	Mfr's Type	Max. Mmf.	Min. Mmf.	NET EACH
17A79	APC-25	25	3.0	\$1.35
17A80	APC-50	50	3.9	1.56
17A82	APC-100	100	5.5	1.85
17A83	APC-140	140	6.7	2.15

### SHAFT TYPE APC

APC-B has 1/4 inch shaft, otherwise exact same size as APC illustrated above. Shaft length 1/2".

17B91	APC-25B	25	3	\$1.80
17B92	APC-50B	50	3.9	1.80
17B93	APC-100B	100	5.5	2.10
17B94	APC-140B	140	6.7	2.40

## CERAMIC TRIMMERS, PADDERS

Stock No.	MMFD.	Fig.	Net Each	10 Each
17A77	3-30	A	\$2.29	\$26
15A1527	9-180	A	.29	.28
15A1524	25-280	A	.32	.29
15A1526	80-480	A	.38	.34
15A1525	170-780	A	.50	.45
15A1521	15-130	B	.47	.43
15A1522	65-340	B	.50	.45
15A1523	275-970	B	.65	.59

## ① BUD TINY MITE

Small size, 1 1/8" by 1 1/8". Well suited for ultra-high frequency circuits where good stability is required. Has brass plates, ceramic insulation, and a separate shield between each section. 1/4" shaft.

**DUAL SECTION AIR GAP .017**

Stock No.	Cap. Per Sec.	Mfg. No.	Net Each
16A710	8 2.5	LC1845	\$2.84
16A711	15 3	LC1660	3.23
16A712	25 4	LC1661	3.86
16A713	50 6	LC1662	4.28
16A714	100 9	LC1663	6.22

**TRIPLE SECTION LGTH. 3 3/4"**

14A308	11	5	LC1845	\$5.14
14A309	17	5	LC1846	6.73
14A310	25	6	LC1847	6.11

## JOHNSON SUBMIDGETS

Steatite end plate only 3/8 x 3/8". Steatite dia. slotted shaft extending 1/8" from bushing and mount in 1/8" hole. Rigidly soldered rotor and stator assemblies. Plate spacing .017, rating 750-Volt R.M.S.

## ③ SINGLE SECTION

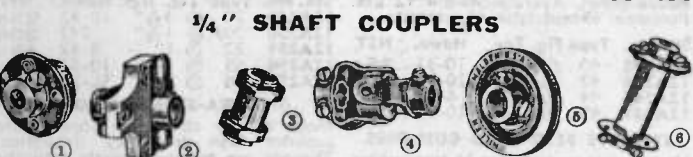
Stock No.	Mfg. No.	Cap. Mmf. Min.-Max.	Net Each
14A311	5M11	1.5 5.0	\$1.00
14A312	9M11	1.8 8.7	1.05
14A313	15M11	2.3 14.2	1.20
14A314	20M11	2.7 19.6	1.36

## ⑥ BUTTERFLY

14A316	5MB11	1.8 5.1	1.80
14A317	9MB11	2.2 8	1.80
14A318	11MB11	2.7 10.8	2.00



With low loss ceramic base and clear India Ruby mica dielectric.  
Type A: 3/4" x 5/8" Type B: 7/8" x 1 1/8"  
1/4" SHAFT COUPLERS



- ① National TX 10. 1 1/8" dia. Bake-lite insulated coupling. No. 12A1361. Each... 48c
- ② Johnson No. 250. 1 1/8" dia. Steatite Phosphor bronze spring. No. 12A1360. Each... 88c
- ③ Compression Coupling. 1/4" shafts, uninsulated. No. 12A1199. Each... 32c
- ④ Millen Flexible Couplers. Universal Joint #39005. High torque. No. 17B706. Each... 48c
- ⑤ Millen No. 39016. Molded polystyrene flexible coupler. Insulated for high voltage. 1 1/8" dia. No. 17B704. Net Each... 48c
- ⑥ National TX1. High voltage coupler with glazed steatite insulation. No. 18B185. Net Each... 29c

## MILLEN RIGHT ANGLE DRIVE



1 1/2 x 1 1/2 x 3/4". Mounts on adjustable standoff rods, single hole panel bushing or tapped holes in the frame. Ratio 1 to 1. For 1/4" shafts. Wt. 1 lb.  
17B703. No. 10012. Ea... \$5.00

## National RIGHT-ANGLE DRIVE

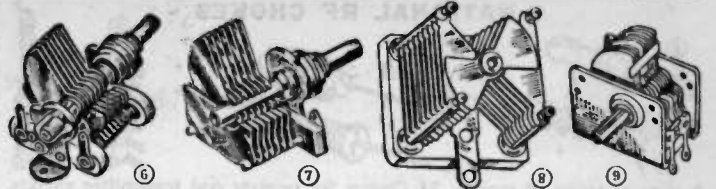


For coupling 1/4" shafts. Zinc housing and gears. Overall length 4 1/2". 1/4" shaft extends 2". Ideal for driving condensers, etc.  
No. 29A76. Net Each... \$4.31

## DISTINCTIVE MODERN KNOBS FOR 1/4" SHAFTS PERFECT FOR MINIATURE EQUIPMENT

Stk. No.	Fig.	Mfg. No.	Color	Description	Net Ea.
12A144	①	116-401	White	7/8" Dia., 1 1/2" High, Plain	18c
12A145	②	116-501	White	1 1/2" Dia., 1 1/2" High, Pointer	27c
12A146	③	116-551	White	3/4" Dia., 1 1/2" High, 180° Dial	38c
12A147	④	116-601	White	3/4" Dia., 1 1/2" High, 270° Dial	38c

Made by E. F. Johnson Co.



## ⑥ BUD MC TYPE MIDGET VARIABLES TOP CHOICE CONDENSER FOR RECEIVER AND TRANSMITTER TUNING

The popular high quality steatite insulated midget condenser. Stable two bearing design, 1/4" shaft extends 1" to the front and also 1/8" to rear for ganging. Has cadmium plated brass plates. Mounts on base or with single hole through the panel. Air gap .024".

\*Semi-circular plates (straight line capacity) all others are mid line plates (straight line wave length).

Stk. No.	Type	Max. Mmf.	Min. Mmf.	Net Each
17A58*	1850	15	3	\$1.78
17A59*	1852	33	4	1.84
17A60*	1853	50	5	2.43
17A78	903	50	6	2.38
17A62	904	75	7	2.49
17A63*	1855	100	7	2.66
17A64	905	100	7	2.70
17A66	906	140	7	2.94
17A65*	1856	140	7	2.72
17B48*	1858	190	9	2.94
17A68	909	250	11	3.29
17A69	910	300	13	3.59

## MC DUAL CONDENSERS

17A1147	911A	100	6	\$4.37
17A1148	912A	140	7	4.73

## ⑦ BUD MIDGET SINGLE BEARING TYPE

Electro soldered semi-circular plates. Ceramic insulated. Wiping spring contact on rotor. Mounts in 1/8" hole. Double spaced units. .06" air gap, others .024".

Stk. No.	Type	Max. Mmf.	Min. Mmf.	Net Each
17A51	MC1870	15	3	\$1.76
17A52	MC1872	33	4	1.84
17A53	MC1873	50	5	1.91
17A54	MC1875	100	7	2.06
17A55	MC1876	140	8	2.35

## DOUBLE SPACED

17A57	MC1881	50	7	\$2.35
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## ⑧ HAMMARLUND BUTTERFLY

Precision design for VHF and UHF. Perfect symmetry for dual split stator circuit and isolated rotor for series application. Air gap .03". Size 1 3/8" sq., 1 1/2" deep.

## ⑨ MIDGET 2-GANG

Osc. section 10-78 mmfd. Ant. section 10-130 mmfd. No. 17B985. Type 2110. Size 1 1/8" x 1 3/8" x 1 1/8". Net Each... \$1.94  
Osc. section 10-365 mmfd. Ant. section 10-365 mmfd. No. 17B986. Type 2112. Size 2 1/8" x 1 1/8" x 1 1/8". Net Each... \$2.35

## ONE, TWO AND THREE GANG SEMI-MIDGET CONDENSERS

Latest mechanical design with ball bearing rotors, heavy brass rotor contact springs, and 1/4" dia. shaft.

The correct tuning condenser for building radio receivers. Will also replace many used in standard broadcast radio receivers.

Stock No.	Capacity	Net Each
19A1212	365 Mmf.	\$1.15

**SINGLE GANG**  
(3 3/16" W., 2 3/4" H., 2 7/16" L.)

**TWO GANG**  
(1 13/16" W., 2" H., 3 3/16" L.)

**THREE GANG**  
(1 13/16" W., 2" H., 4 3/16" L.)

## DIAL ACCESSORIES—SHAFT LOCKS

(A) ODD. National Vernier pinch type drive. No. 29A75. Net Each... 48c  
(B) 10021. Millen dial position marker. No. 17A612. Net Each... 21c  
(C) ODL. National dial lock. No. 15B132. Net Each... 38c  
(D) MILLEN 10050 Dial Lock. Single hole. Mounts through panel. No. 17B799. Net Each... 54c  
(E) TUNING DRIVE SHAFT for cable connected drive using drum or condenser shaft. No. 17A583. Net Each... 21c  
(F) SHAFT LOCK instantly converts any plain 1/4" shaft, to "shaft locked type". Mounts in place of regular mounting nut. Millen 10061. No. 17A611. Each... 45c  
(G) MILLEN 10062 Shaft Lock. Thumb screw action, for 1/4" shafts. No. 17A610. Net Each... 54c

## SHAFTS, BEARINGS, COUPLERS

① FLEXIBLE SHAFTS  
Phosphor bronze. When used with suitable couplings, control of units at angles up to 90 degrees with the panel is permitted.

No.	Hub Dia.	Length	COST
12A11	1/4"	3"	50c
17B122	1/4"	4 1/8"	19c
12A12	1/4"	6"	75c

② PANEL BEARINGS  
Cadmium plated brass for panels up to 3/8" thick. Furnished separately or with 3" or 6" cadmium plated brass shafts.

Stk. No.	Each	10 For
12A1184	1/4" to 1/4"	\$1.80
12B1185	1/4" to 3/8"	20c
③ 1 3/8" BRASS EXTENSION		
12A1196	1/4" to 1/4"	21c
12B1197	3/8" to 1/4"	1.98

④ 1/2-INCH SOLID SHAFTING

No.	Kind	Dia.	Length	Each
12A5	Bross	1/4"	12"	29c
12A7	Insulated	1/4"	12"	33c



# R. F. Chokes—Coil Forms—Insulators

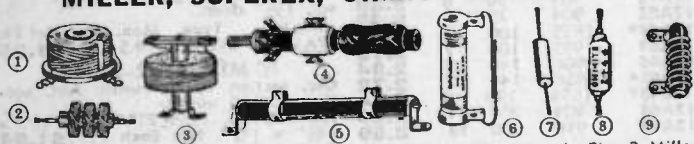
## NATIONAL RF CHOKES



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 and R50-1 on powdered iron. Inductance rating is millihenries except † which are microhenries. R175 rated 4000 volts, for 6 through 80 meters, 3000 V. Modulated. Current rating below is 20 degrees rise.

Fig.	Stk. No.	Mfg. No.	Induc. MH	Current MA	Ohms Res.	Length inches	NET PRICES EACH
							1-49 50-149
①	12A189	R100	2.5	115	44	2 1/2	\$0.54 \$0.51
②	12A191	R300	1.0	400	11	2 1/2	.57 .54
③	12B372	R300	2.5	375	17	2 1/2	.66 .63
④	12A190	R100U	2.5	115	44	2 1/2	.42 .40
⑤	12A1427	R50	.5	150	15	1	.42 .40
⑥	16A715	R50	1.0	135	23	1	.42 .40
⑦	12A1428	R50	2.5	125	38	1	.72 .68
⑧	12A1429	R501-10	10	175	36	1	.36 .34
⑨	12B387	R33	11†	150	1.8	5/8	.36 .34
⑩	12B373	R33	50†	225	3.5	5/8	.36 .34
⑪	12B374	R33	100†	200	5	5/8	.36 .34
⑫	12B369	R33	750†	700	16	5/8	.29 .28
⑬	12A1430	R60	4†	125	.15	1	1.24 1.21
⑭	17A1156	R154U	1	600	6	3/8	2.01 1.81
⑮	29A255	R175A	225†	800	5	6	3.56 3.20

## MILLER, SUPEREX, OHMITE RF CHOKES



Miller RF Chokes Fig. 1 are 1 1/2" dia. \*691T is center tapped. Fig. 2 Miller Ferrite Chokes combine high impedance with low DC resistance, 1/4" dia. x 7/8" long. Fig. 3 7867 and 7868 are mercury vapor rectifier hash filters. Fig. 4 Superex vari-chokes with Ferrite cores give high impedance in minimum space, 2" long x 3/4" dia. Current 125 MA. Fig. 5, 6, 7, 8 and 9 are Ohmite frequency rated chokes, very low loss.

Fig.	Stk. No.	Mfg. No.	Induct. MH	Current MA	Ohms Res.	Net Ea.
①	12B158	Miller 622	1.0	125	18	\$0.53
②	12B159	Miller 630	1.5	125	21	.69
③	12A1431	Miller 640	2.5	125	29	.68
④	12A184	Miller 650	5	125	44	.73
⑤	12A185	Miller 670	10	125	67	.79
⑥	12A186	Miller 690	15	125	85	.88
⑦	12A1445	Miller 691T*	20	125	100	.88
⑧	12A187	Miller 692	30	100	130	1.00
⑨	12A1433	Miller 693	60	100	200	1.09
⑩	12A188	Miller 694	80	100	220	1.47
⑪	17A735	Miller 959	75	200	170	1.47
⑫	17B839	Miller 6302	2.5	200	8.3	.73
⑬	17B840	Miller 6304	5	200	13.5	.82
⑭	17B841	Miller 6306	10	125	28	.97
⑮	17B842	Miller 6308	25	75	70	1.12
⑯	17B843	Miller 6310	50	75	110	1.29
⑰	17A680	Miller 7867	4.5	500	4.5	1.91
⑱	17A681	Miller 7868	2.75	1000	2.3	2.21

Fig.	Stk. No.	Mfg. No.	Inductance MH	Ohms Res.	Net Ea.
			From To		
①	14A35	Superex V-5	.15	3.5	\$0.59
②	14C16	Superex V-6	.65	12.5	.71
③	14B161	Superex V-25	5	34	.82
④	14A36	Superex V-60	30	80	1.18

Fig.	Stk. No.	Mfg. No.	Ind. MH	MA	OP. Freq. MC	Each
①	14B11	Ohmite Z7	84.	1000	3-20	\$1.34
②	14B12	Ohmite Z14	44.	600	7-35	.67
③	14B13	Ohmite Z28	21.	600	20-60	.56
④	14B14	Ohmite Z50	7.	1000	35-110	.46
⑤	14B15	Ohmite Z144	1.8	1000	80-200	.42
⑥	14C17	Ohmite Z235	0.84	1000	160-350	.42
⑦	14C18	Ohmite Z460	.2	1000	320-520	.42
⑧	14B34	Ohmite			Parasitic Suppressor	1.55

## 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-15 for total of 15 amp current to one or two tubes. Size 1 1/2x1 1/2x4". Wt. 1 lb. No. 29A279. Net Each. \$7.50
- No. FC-30 for one or two tubes requiring total of 30 amps filament current. Size 2x2 1/2x5". Wt. 2 lbs. No. 29A280. Net Each. \$9.90
- 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 millamps. 6x3/4" steatite core, threaded for mounting with 1/4-20 screws. Wt. 6 oz. No. 29A278. Net Each. \$3.75

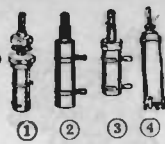
## EIMAC PREFORMED CONTACT FINGER STOCK

Beryllium copper, silver plated. Slight curvature for spring effect. Furnishes electrical bond for cabinet seams, making transmitter TVI proof. Also ideal for making transmitting tube plate and grid caps.

No. 14B1012.	3' Long x 1/4" wide.	Each. \$5.77
No. 14B1013.	3' Long x 3/8" wide.	Each. \$8.23
No. 14B1014.	3' Long x 1 3/8" wide.	Each. \$8.70

## CAMBRIDGE

### SLUG TUNED COIL FORMS



Midget low loss coil forms for compact high frequency equipment. Type LS4 has fixed terminals. All others adjustable. Slug adjustment from top or bottom. Complete with terminals and mounting hardware. Figure one coils are ceramic, all others phenolic.

Stk. No.	Mfg. No.	Dia.	Lgth.	Each
①	14A709	LS6 1/4"	2 1/2"	72c
②	14A708	LS5 3/8"	1 1/2"	80c
③	14B400	LS3 3/8"	1 1/8"	58c
④	14B400	LSM 1/4"	2"	58c
⑤	14B412	LS4 1/2"	2"	71c

### MINIATURE WOUND COILS

Completely wound coils on LSM and LS3 forms listed above. \*Tuning ranges are with 10 to 100 Mmf. variable shunt capacity.

Stk. No.	Mfg. No.	Di.	Lgth.	Each
①	14B401	LS3-6-2.7 MC		\$1.21
②	14B402	LS3-2.0-8.0 MC		1.21
③	14B403	LS3-4.2-25.0 MC		1.05
④	14B404	LS3-16.0-90.0 MC		.99
⑤	14B405	LS3-50.0-190.0 MC		.96

## NATIONAL COIL FORMS

### XR-50 FOR UHF

Mica filled bakelite permeability tuned coil form, using iron slug. Coil winding space 1/4", diameter 1/2". Small size is particularly adapted to UHF circuits where space is limited and extreme stability and high efficiency is required.

16A716. Each. \$1.35

## MILLER TUNED COILS

Miniature size silicone impregnated ceramic coils with powdered iron core tuning slug. 1/4" dia. x 7/8" L. Requires 3" mounting hole.

Order by Stock No. 17A700 and Mfg. No. of coil selected.

Fig.	Mfg. No.	uh	uh	uh	10
		Min.	Max.	Each	Each
A	4501	.4	.8	\$1.32	\$1.24
A	4502	1.	1.6	1.32	1.24
A	4503	1.6	2.8	1.38	1.29
A	4504	2.8	5.	1.41	1.32
A	4505	5.	9.	1.47	1.38
A	4506	9.	16.	1.53	1.43
B	4507	16.	24.	1.59	1.49
B	4508	24.	35.	1.62	1.51
B	4509	35.	60.	1.65	1.54
C	4511	60.	120	1.68	1.57
C	4512	110	200	1.71	1.60
C	4513	190	330	1.73	1.62
C	4514	320	500	1.76	1.65
C	4514-1	480	800	1.82	1.71

### (A) MILLER SLUG TUNED CERAMIC COIL FORMS

Stk. No.	Mfg. No.	Di.	Lgth.	Each
17A676	4300	1/4"	5/8"	\$0.97
17A677	4500	1/4"	7/8"	.97
17A678	4400	3/8"	1 1/8"	1.08

### MILLEN COIL FORMS

Low loss mica base phenolic. Supplied less prongs for permanent mounting. Dia. 1 x 1 3/8" long.

- 17A1107. No. 45000... 39c
- No. 45004 with 4 prongs for standard tube base socket. No. 17A1108. Each... 51c
- No. 45005 with 5 prongs for standard tube base socket. No. 17A1109. Each... 51c

## JOHNSON INSULATORS



### THRU-PANEL TYPE

Furnished with nicked brass hardware for mounting in panels up to 1/2" thick. Dimension shown is height above panel. Average weight 12 ozs. Porcelain except type 45, steatite.

Stk. No.	Type	Fig.	Top Hdw.	NET
12A262	40	①	1 1/4"	10-32 35c
12A264	42	①	7/8"	10-32 35c
12A266	44	①	5/8"	6-32 27c
12A267	45	①	1 3/8"	10-32 47c

### STAND-OFF TYPE

Types 65, 66, have Cadmium steel bases. " after Type Number indicates Jack Type. Average wt. 12 oz.

Stk. No.	Type	Fig.	Hgt.	Hdwe.	NET
12A249	20	①	1 1/8"	10-32	25c
12A250	20J	①	1 1/8"	7-4J	30c
12A251	22	①	1 1/8"	8-32	19c
12A256	65	①	1 3/8"	10-32	30c
12A258	66	①	2 3/4"	1/4-20	87c

### ULTRA-STEATITE CONES

Mode of low absorption Steatite for superior high frequency insulation. Threads are tapped directly into the insulator. Furnished with machine screws and cushion washers for both top and bottom. Average wt. 4 ozs.

Stk. No.	Type	Fig.	Hgt.	Di.	NET	Stk. No.	Type	Hgt.	Bot.	NET
12A243	50	①	1 1/2"	3/4"	33c	12A271	500	5/8"	1 1/4"	23c
12A244	51	①	1 1/2"	1 1/4"	54c	12A272	501	1"	1 1/2"	31c
12A245	52	①	1 1/2"	1 3/4"	78c	12A274	502	1 1/2"	1"	51c
12A248	55	①	1 1/4"	3/4"	31c	12A276	503	2"	1 1/8"	71c

## NATIONAL FEED-THRU INSULATORS

X59 National ceramic feed-thru insulator for high frequency. Hole size 1/8", terminal stud silver plated.

- No. 12B335. Net Each. \$35c
- TPB National threaded polystyrene bushing, removable. .093 conductor 1/4" dia. 28 thread. Ideal UHF Insulator.
- No. 12B334. Each. 10c 12 For. \$88c



## NEW MORRIS COILMASTER MODERN COIL-WINDER FOR ELECTRONICS QUICKLY PAYS FOR ITSELF



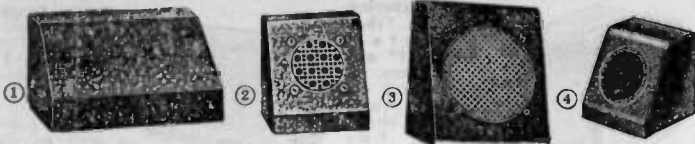
Well constructed hand-powered machine for accurately winding modern style coils, chokes, etc. Fully adjustable for self-supporting, universal and honeycomb windings, solenoids, single layers, spaced pi-sections, etc. Very practical for individuals, labs and shops engaged in electronic experimenting and 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. 37B334. Net Each. \$6.95



# Cabinets-Cases-Insulating Material

## MIDGET SIZE CABINETS



① Premier Sloping Front Cabinet. Steel, gray crackle. Ideal for miniature size equipment. 4 1/4" D. 4 1/2" H.

Stk. No.	Width	Wt.	Each
5B145	4 1/4"	8 oz.	\$1.12
5A19G	5 1/8"	1 lb.	1.26
5A20G	6 1/8"	1 lb.	1.44
5A14	7 1/8"	1 1/2 lbs.	1.73

② Bud Sloping Front Cabinet. Aluminum, hammertone gray. Size 4 1/4" deep, 4" high. Detachable back and bottom.

Stk. No.	Width	Wt.	Each
5A224	4"	1/2 lb.	\$1.65
5A225	5"	1/2 lb.	1.72
5A226	6"	3/4 lb.	1.86
5A228	7"	3/4 lb.	2.06

③ BUD MIDGET SPEAKER CASE. IDEAL FOR MULTIPLE SPEAKER INSTALLATIONS FOR PUBLIC ADDRESS OR INTERCOM. FOR 2 AND 3 INCH SPEAKERS

Black wrinkle finished steel. Size 4 x 4 x 4 1/4". Wt. 3/4 lb.  
5A41. For 2" Speaker. Ea. \$1.55 5A47. For 3" Speaker. Ea. \$1.55

④ BUD MIDGET WALL TYPE SPEAKER CASE  
Similar to above except brown wrinkle finish, with keyway for wall mounting as well as table top use. All steel. For 4 and 5 inch speakers.  
5A48. For 4" Speaker. 7 1/2" H, 6 1/2" W, 4 1/4" D. Wt. 1 3/4 lb. Ea. \$2.62  
5A49. For 5" Speaker. 7 1/2" H, 6 1/2" W, 4 1/4" D. Wt. 1 3/4 lb. Ea. \$2.69  
Quantity Prices: 25 to 49 less 10%; 50 up less 20%

⑤ BUD UNIVERSAL CASE For 2 or 3 in. Meters  
Punched for 2" meter with easy removable knock out ring to increase hole size for 3" meter. One piece removable back and bottom. Two 3/8" knock outs in top for installing insulators, etc. Gray hammertone finish.  
5A39. Steel. 4x4x4 1/4". Ea. \$1.20 5A40. Aluminum. 4x4x4 1/4". Ea. \$1.44  
Quantity Prices: 50 to 99 less 10%; 100 up less 20%

## PORTABLE SPEAKER CABINETS

Ideal for portable "PA" speakers; NON-RATTLE construction in streamline design, rounded corners, ornamental grille, carrying handle; well baffled. Black wrinkle enamel.

Stk. No.	Dimensions	For Speaker	Shpg. Wt. Lbs.	Net Ea.
5A127	10x10x6"	6-inch	7 1/2	\$3.94
5A128	12x12x7"	8-inch	10	4.94

## L.M.B. ALUMINUM BOXES

Features simple interlocking design. Slips together easily making a sturdy finished box requiring only two fastening screws. Eliminates hard-to-get-at places. Made of 18-gauge aluminum. Ideally suited for building preamps, oscillators, junction boxes, etc. Choice of Black Wrinkle, Gray Hammertone and Brushed Natural finishes. Special quantity prices available—write for quotations.

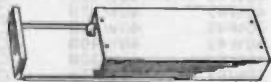


L	W.	H.	LMB No.	Wt.	Block No.	Natural No.	Gray No.	Each
2 1/4	1 1/2	1 3/8	M00	3 oz.	20A456	20A457	20A458	\$0.57
2 1/8	2 1/8	1 3/4	00Z	4 oz.	20A529	20A530	20A531	.64
2 3/4	2 1/8	2 5/8	100	4 oz.	20A421	20A419	20A420	.89
3 1/4	2 1/8	1 3/8	000	4 oz.	20A532	20A533	20A534	.68
4	2 1/8	1 3/8	00	6 oz.	20A129	20A132	20A507	.71
4	2 1/4	2 1/4	107	6 oz.	20A500	20A500	20A499	.96
4	2	2 3/4	102	6 oz.	20A459	20A460	20A461	1.02
4	4	2	143	6 oz.	20A504	20A504	20A503	1.33
5	2 1/4	2 1/4	108	6 oz.	20A130	20A133	20A506	1.03
5 1/2	3	1 1/4	139	6 oz.	20A424	20A422	20A423	1.01
3 1/4	3	2 1/8	135	5 oz.	20A535	20A536	20A537	1.01
5 1/4	3	2 1/8	136	8 oz.	20A131	20A134	20A505	.97
3	4	5	140	8 oz.	.....	20A491	.....	1.29
6	4	3	141	6 oz.	.....	20A425	.....	1.44
6	4	3	141	6 oz.	20A427	.....	20A426	1.72
6	4	5	142	8 oz.	.....	20A492	.....	1.68
6 1/4	3 1/2	2 1/8	138	8 oz.	20A498	20A497	20A496	1.32
7	5	3	145	8 oz.	5A303	5A301	5A302	2.11
8	3	2 3/4	137	10 oz.	.....	20A502	20A501	1.61
8	6	4 1/2	146	12 oz.	5A332	5A330	5A331	2.99
10	4	2 1/2	144	12 oz.	5A329	5A327	5A328	2.19
12	2	1 1/4	15	12 oz.	20A495	20A494	20A493	1.61

## SLIDECOVER TYPE ALUMINUM BOXES

Natural finish aluminum. Ideal for rack panel use.

5A182. 4 1/8 x 13 x 2 5/8". Wt. 1 lb. Each. \$3.18
5A183. 5 1/4 x 13 x 2 5/8". Wt. 1 lb. Each. 3.61
5A184. 3 1/8 x 17 x 2 5/8". Wt. 1 lb. Each. 3.36



## MOLDED PLASTIC INSTRUMENT CASES

Made of beautiful black plastic with highly polished finish. Heavy construction to withstand rugged usage and provide safety for meters and other components which may be mounted in them. Corner bosses drilled and tapped also are recessed for flush panel mounting.

Model 240B

Size, 3 3/4" wide, 6 1/4" long, 2" deep. Inside dimensions 3 1/2" wide, 6" long.  
No. 29A1. NET EACH... 72c 10 Lots, Each... 65c

Model 260A. Size 5 3/8" wide, 6 1/2" long, 2 1/8" high. Inside dimensions 4 1/2" wide, 6 1/2" long.  
No. 29A2. NET EACH... \$1.24 10 Lots, Each... \$1.11

MATCHING PANELS. Made of same molded black plastic as above. Precision cut for accurate fit and a finished appearance. 1/8" thick.

No. 29A67. For 240B. Net Each... 48c 10 Lots, Each... 42c  
No. 29A68. For 260A. Net Each... 68c 10 Lots, Each... 61c



## KEPRO PRINTED CIRCUITS

STANDARD ETCHING S-101A KIT



PROFESSIONAL KIT P-101A



Standard Etching Kit S101A. A complete assortment of material used for manually producing a basic printed circuit. Contains 2 copper clad unsensitized sheets 3x6x1/8", 1 perforated 3x6x1/8" 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.

No. 29B80. S101A Kit. Wt. 1 1/2 lbs. Net Each \$3.87

Professional 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. Kit contains all material for this process as well as a step-by-step instruction book.

No. 29B81. P101A Kit. Wt. 1 1/2 lbs. Net Each \$5.73

Unsensitized Phenolic Boards Sensitized Phenolic Boards  
All boards are foil one side.  
29A106 P1-33. 3x3" Each. .28 29A109 S1-33. 3x3" Each... .44  
29A107 P1-36. 3x6" Each. .44 29A110 S1-36. 3x6" Each... .69  
29A108 P-1212. 12x12" Each. 2.36 29A111 S1-66. 6x6" Each... 1.28  
29A112 S1-710. 7x10" Each... 2.50

Copper Clad Processing Chemicals  
29B82 2 Oz. Paint Resist. Ea. 59c 29B89 1 Pt. Developer Ea. 1.03  
29B85 2 Oz. Resist Thinner. Ea. 40c 29B90 1 Pt. Etch. Solution Ea. .83

## POLYSTYRENE SHEETS, TUBING, RODS

Polystyrene is unexcelled for high frequency insulation. It is an ideal material for coil forms and insulators for ultra high frequency applications because of its very low loss factor. Also it is transparent and colorless and does not deteriorate with age. Aside from radio applications many attractive articles may be built using this polystyrene.



### RODS 12" LENGTH

Stk. No.	O.D.	Wt.	Net Each
12B300	1/8"	1/4 oz.	\$0.05
12B301	1/4"	1/2 oz.	.07
12B219	1/2"	1/2 oz.	.12
12B302	3/8"	1 oz.	.18
12B220	3/4"	1 oz.	.26
12B303	1"	1 oz.	.35
12B221	1 1/2"	1 1/2 oz.	.47
12B304	2"	2 oz.	.71
12B222	3"	3 oz.	.98
12B305	4"	4 oz.	1.39
12B223	6"	6 oz.	1.86
12B388	7"	7 oz.	2.45
12B314	1 1/2"	10 oz.	2.94
12B389	1 3/8"	12 oz.	3.63
12B308	1 1/2"	16 oz.	4.21
12B390	1 3/4"	20 oz.	5.88
12B391	2"	25 oz.	7.35

### TUBING—12" Length

Stk. No.	O.D.	I.D.	Wt. Oz.	Net Ea.
12B212	1/4"	1/8"	1/4	\$0.10
12B309	3/8"	1/4"	1/2	.14
12B213	1/2"	3/8"	1/2	.18
12B214	5/8"	3/4"	1/2	.26
12B310	3/4"	1/2"	1/2	.31
12B215	1"	3/4"	1/2	.39
12B216	1 1/4"	1"	1/2	.65
12B217	1 1/2"	1 1/4"	4	1.47
12B218	2"	1 3/4"	5 1/2	2.16

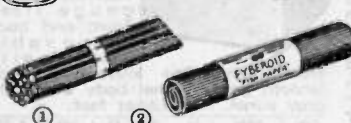
Stk. No.	O.D.	I.D.	Wt. Oz.	Net Ea.
5A192	1 1/2"	8	8 oz.	\$4.07
5A193	1 3/4"	9	9 oz.	4.70
5A194	2"	13	13 oz.	5.39
5A195	2 1/4"	16	16 oz.	7.01
5A196	3"	22	22 oz.	7.99

Stk. No.	O.D.	I.D.	Wt. Oz.	Net Ea.
5A197	1 1/2"	26	26 oz.	\$10.29
5A198	2"	44	44 oz.	15.34

### GC No. 41 THINNER

Stk. No.	GC No.	Net Each
11A36	41 - 2 oz.	\$0.44
11A630	41 - 8 oz.	.82

GC No. 37 POLYSTYRENE CEMENT & COIL DOPE  
Stk. No. GC No. Net Each  
11A25 37 - 2 oz. \$0.47  
11A631 37 - 8 oz. 1.18



① SPAGHETTI ASSORTMENT  
24 pieces, each 9" long, varnished high grade tubing in assorted popular sizes and colors.  
No. 18A69. Per Assortment... 23c

② FISH PAPER  
High grade fibre sheet paraffined for insulation purposes. Fine for field coils, transformers, etc. .010 thick, sheet of 240 sq. in.  
No. 11A30. PER SHEET... 44c

INSL-X E-26 CLEAR INSULATING SPRAY

Quick dry—3 to 5 minutes. Insulate everything in TV except moving parts and tubes, spray antenna and all connections. Prevents corona, arcing—keeps out moisture, rust. Dielectric 1200 V/M. Adhesion excellent on all surfaces. Water, chemical, oil resistant.

No. 11A683. 19  
12 Oz. Con. \$1.19



③ LAMINATED BAKELITE  
For insulating parts, terminal strips, etc. Glossy jet black.  
No. 11A179. 6 x 6 x 1/8"..... 41c

④ INSULATING CAMBRIC  
Breakdown voltage 10,000 volts. Prevents grounds and shorts on field coils, transformers, resistors, condensers, wires, etc. Dry, Yellow Cambric in rolls of over 210 sq. in.  
No. 11A29..... 76c

## DIAL ACCESSORIES



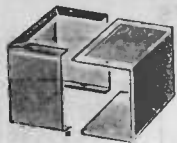
① NYLON DIAL CABLE  
16B431 .026" dia. Thin 100 Ft. 68c  
16B432 .028" dia. Med. 100 Ft. 78c  
16B433 .038" dia. Large 100 Ft. 99c

② DIAL DRIVE SPRINGS  
Kit of 25, 6 sizes for any job.  
No. 11A77. Kit of 25..... \$1.21

"B-A" Carries ALL Supplies for Radio Servicemen!



# BUD Relay Racks, Cabinets, Mini Boxes

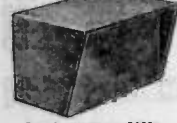


## BUD ALUMINUM MINIBOXES

Simple two piece design with both snap-lock and screw type fastening. Provides complete access for installation or service of components. Ideal for housing shielded sub-assemblies as well as the many separate self-contained units which have made this box so popular. Choice of Gray Hammertone or Natural Aluminum.

Inches			Wt. Lbs.		Natural Finish		Hammertone Gray	
L.	H.	W.	Mfg. No.	Stk. No.	Each	Mfg. No.	Stk. No.	Each
2 3/4	x 2 1/2	x 1 5/8	CU3000A	20C558	\$0.58	CU2100A	20C581	\$0.73
3 1/4	x 2 1/2	x 1 3/8	CU3001A	20C559	.60	CU2101A	20C583	.75
4	x 2 1/2	x 1 1/2	CU3002A	20C564	.63	CU2102A	20C584	.78
4 1/2	x 2 1/2	x 1 1/4	CU3003A	20C565	.71	CU2103A	20C585	.88
5	x 2 1/2	x 1 1/4	CU3004A	20C566	.74	CU2104A	20C587	.93
5 1/2	x 4	x 3	CU3005A	20C567	.94	CU2105A	5A333	1.18
6	x 4	x 3	CU3006A	20C574	.80	CU2106A	5A334	1.00
7	x 5	x 4	CU3007A	5A271	1.18	CU2107A	5A335	1.47
8	x 6	x 3 1/2	CU3008A	5A272	1.29	CU2108A	5A336	1.62
10	x 6	x 3 1/2	CU3009A	5A273	1.65	CU2109A	5A337	2.06
12	x 7	x 4	CU3010A	5A274	1.84	CU2110A	5A279	2.30
12	x 7	x 4	CU3011A	5A275	2.51	CU2111A	5A280	3.14
17	x 5	x 4	CU3012A	5A276	2.51	CU2112A	5A281	3.14
10	x 2	x 1 5/8	CU3013A	5A277	.94	CU2113A	5A282	1.14
12	x 2 1/2	x 2 1/4	CU3014A	5A278	1.22	CU2114A	5A283	1.51
4	x 2	x 2 3/4	CU3015A	20C578	.73	CU2115A	20A488	.90
4 1/4	x 2 1/4	x 1 1/2	CU3016A	20C579	.73	CU2116A	20A489	.90
3 1/4	x 2 1/8	x 1 1/8	CU3017A	20C580	.61	CU2117A	20A490	.77

## BUD COWL-TYPE MINIBOX



A highly practical addition to the Minibox line. The projecting cowl reduces glare on panel from overhead lighting—protects controls—permits use of various indirect lighting effects. Top and side assembly slips over bottom section forming a rigid unit with excellent accessibility. Made of .040" aluminum in Natural or Hammertone Gray finish.

Inches			Wt. Lbs.		Hammertone Gray		Natural Finish	
H.	W.	D.	Mfg. No.	Stk. No.	Each	Mfg. No.	Stk. No.	Each
6	10	7	SC2130	5A255	\$5.83	SC3030	5A259	\$4.22
7	12	8	SC2131	5A256	6.37	SC3031	5A260	4.61
6	8	5	SC2132	5A257	3.38	SC3032	5A261	2.40
5	5	5	SC2133	5A258	3.53	SC3033	5A262	2.65

Quantity Discount: Deduct 10% for 50-99; 20% for 100 up for Miniboxes above

## BUD CARRYING CASES



Welded construction, removable front and back panels. Easy grip handle. Steel cases are black crackle or hammertone gray finish. \*For hammertone gray add HG to stock number at same prices. Aluminum cases are natural or hammertone gray (indicated by HG on Mfr's No.).

### STEEL—BLACK OR HAMMERTONE GRAY\*

Stk. No.	Mfg. No.	H.	W.	D.	Wt. Lbs.	Each
5B150	CC-1095	9"	6"	5"	3 1/4	\$2.95
5B151	CC-1096	12"	7"	6"	4	4.10
5A13	CC-1097	15"	7 3/4"	7"	5	4.59
5A309	CC-1100	10"	10"	8"	5	4.74

### ALUMINUM—NATURAL OR HAMMERTONE GRAY

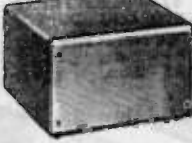
Stk. No.	Mfg. No.	H.	W.	D.	Wt. Lbs.	Each
5B152	ACC-2095	9"	6"	5"	1 1/8	3.03
5A253	ACC-2095HG	9"	6"	5"	1 1/8	3.44
5B153	ACC-2096	12"	7"	6"	1 1/2	4.41
5A254	ACC-2096HG	12"	7"	6"	1 1/2	4.99

## STREAMLINED TYPE



Front panel removable. Overall dimensions are 8" high, 8 1/4" deep except \* which is 12" high.

## CONTOUR UTILITY CABINETS



front, ventilating louvers in rear. Smooth gray enamel body with light gray panel. Has rubber feet.

Stk. No.	Mfg. No.	H.	W.	D.	Wt. Lbs.	1-24
5A247	CU463	4 1/2"	6 1/2"	3 1/2"	1 1/4	\$5.39
5A248	CU465	4 1/2"	8 1/2"	3 1/2"	2 1/2	6.22
5A249	CU585	5 1/2"	8 1/2"	5 1/2"	3 1/4	8.18
5A250	CU587	5 1/2"	8 1/2"	7 1/2"	4 3/4	8.82
5A251	CU7125	7 1/2"	12 1/2"	5 1/2"	8	9.51
5A252	CU7127	7 1/2"	12 1/2"	7 1/2"	11	10.14

Quantity Discount Deductible 10% for 25-49; 20% 50 and up.

## BUD TELEPHONE TYPE RELAY RACKS



Quantity Prices 15 to 24 less 10%; 25 up less 20%

Stk. No.	Mfg. No.	Ht.	Panel Space	Wt.	Net Each
40W54	RR1264	70 3/8"	66 1/2"	44 lbs.	\$24.30
40W55	RR1364	75 1/8"	71 3/4"	47 lbs.	24.63
40W56	RR1366	81 1/8"	77"	49 lbs.	29.38
40W65	*RR1265	72 1/4"	66 1/2"	94 lbs.	53.68

Desk Type Telephone Racks Ideal for desk or bench mounting of equipment, permitting easy access for building or operating. Black wrinkle.

Stk. No.	Mfg. No.	Ht.	Wt.	Net Each
5A269	RR1248	24"	15 lbs.	8.92
5A270	RR1249	31"	17 lbs.	10.97

All Bud Products including the new Sixty Series are available from B-A. Ask for special catalog No. S60-60 covering this new line.

## BUD PORTACAB

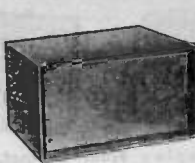


The housing with that "custom built" appearance. Formed of one piece .050" aluminum, has side louvers and a partial back opening.

Panel, recessed 1/2" from front, is .062" aluminum. A recessed spring-up handle and detachable rubber feet complete this handsome cabinet. Gray hammertone finish only.

Stk. No.	D.	W.	H.	Wt. Lbs.	Each
40A178	8"	6 1/2"	8"	2 1/2	\$9.20
40A179	12"	8 1/2"	9"	3	12.00
40A180	8"	10 1/2"	8"	3 1/2	10.65
40A181	18"	11 1/2"	11"	4 1/2	13.50
40A182	18"	14 1/2"	12"	5 1/2	15.50

## BUD SHADOW CABINET



Unusually attractive appearance is created by using a 1" beveled recessing on the front panel. Both front and back panel as well as the bottom are removable for easy installation and service. Made of 18 gauge steel with 16 gauge panels. Has rubber feet. Finished in light gray hammertone.

Stk. No.	Mfg. No.	W.	H.	D.	Wt. Lbs.	1-24 Each
5A243	SB2140	14 1/2"	8"	10"	10 1/4	\$6.37
5A244	SB2141	13 1/2"	7 1/2"	9"	8	4.90
5A245	SB2142	17"	9 1/2"	11"	16	8.67
5A246	SB2143	15 1/2"	8"	9"	7 1/2	4.75

## BUD MINIATURE UTILITY CABINETS

### ALUMINUM TYPE



Miniature size removable front and rear panel design. Available in a range of sizes which are particularly useful in building equipment.

ment of miniature size. Natural or gray hammertone finish.

Stock No.	Net Each	Size H.W.D.	Stock No.	Net Each
20A428	1.26	4 x 2	20A431	1.47
20A429	1.34	4 x 3	20A432	1.64
20A430	1.47	6 x 4	20A433	1.80
5A264	2.13	6 x 6	5A266	2.37
5A265	2.46	9 x 6	5A267	2.78

### STEEL TYPE WITH BUILT-IN CHASSIS



Designed for use in building miniature apparatus where smaller size is essential. Convenient design with built-in chassis attached to removable front panel. Rear panel is also removable. Steel with black ripple finish.

Stk. No.	H.W.D.	Wt.	Net Ea.
20A434	4x4x2	1 1/8 lb.	\$1.31
20A435	4x5x3	1 1/2 lb.	1.46
20A436	5x4x3	1 1/2 lb.	1.59
20A437	6x5x4	2 1/4 lb.	1.67
20A438	5x6x4	2 1/4 lb.	1.88
5A268	6x6x6	3 1/2 lb.	2.13

Quantity Prices 50 to 99 less 10%; 100 up less 20%

## BUD DELUXE RELAY RACKS

Black or Gray ripple finish. Attractive rounded corner design, with red filled chrome trim and recessed panel supports for streamlined mounting. Racks of 16 gauge steel, 1/4" 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 1/4" deep O.D. Has special supports for mounting free-rolling casters listed below. Shipped knocked down.

Gray	Black	Mfg. No.	Hgt. In.	Panel Spc.	Wt. Lbs.	1 to 9 Each
40W70	40W70B	CR1774	42 1/2"	36 3/4"	90	\$44.27
40W39	40W39B	CR1771	47 1/2"	42"	95	50.08
40W71	40W71B	CR1772	66 1/2"	61 1/4"	116	62.68
40W72	40W72B	CR1773	82 1/2"	77"	137	75.04

Casters for Bud Deluxe Relay Racks. Install on bottom supports. No. 5A310. Bud RC7756. Wt. 7 oz. Net Each . . . . . 88c

## 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. For use with standard relay rack panels. Overall O.D. is 22" wide, 14 3/4" deep. Black or Gray wrinkle finish. Order color by Stock No. below. Aluminum relay rack panel covering entire panel space now supplied at no extra cost.

Gray No.	Block No.	Mfg. No.	Height	Panel Spc.	Wt. Lbs.	Net Ea.
40W48	40W48B	CR1726	8 1/2"	7"	26	\$14.97
40W46	40W46B	CR1741	10 1/2"	8 3/4"	28	16.37
40W40	40W40B	CR1740	12 1/2"	10 1/2"	30	18.74
40W47	40W47B	CR1742	14 1/2"	12 1/4"	32	19.72
40W45	40W45B	CR1739	15 1/2"	14"	34	21.52
40W49	40W49B	CR1743	19 1/2"	17 1/2"	38	25.70
40W50	40W50B	CR1727	22 1/2"	21 1/2"	39 1/2	27.50
40W57	40W57B	CR1744	28 1/2"	26 1/4"	47 1/2	29.54
40W51	40W51B	CR1728	33 1/2"	31 1/2"	52	31.34
40W58	40W58B	CR1745	36 1/2"	35 1/2"	60	32.98

## BUD TRANS-AIRE BLOWERS



Features greater air displacement for given area and panel space. May be used as exhaust or intake, will operate in any position. 110 volt 2 speed motor is rubber mounted for quiet operation. Equipped with oilite bearings and oil impregnated felt wicks. Has thermal overload protection and automatic reset. Mounted on 19" rack panels. Complete with air filter and connecting cord.

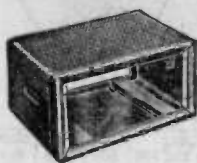
Stk. No.	Mfg. No.	Panel Spc.	Depth In.	Air Displacement High	Air Displacement Low	Motor Size	Wt. Lbs.	Net Each
5A200	B23	3 1/2"	12"	200cfm	100cfm	1/20 H.P.	16	\$46.16
5A214	B25	5 1/4"	14 1/2"	500cfm	250cfm	1/6 H.P.	29	52.29
5A215	B27	7"	14 1/2"	700cfm	350cfm	1/4 H.P.	38	60.12

Quantity Discounts on Blowers: Deduct 10% for 10-14; 20% on 15 or more.



# Bud Cabinets, Panels & Chassis

## BUD PRESTIGE CABINETS



The ultimate in advanced design for housing high quality equipment. Built of 16 gauge steel, flawlessly finished in gray hamperitone. Lid raises completely clear. It is well ventilated and is equipped with rubber feet. Accommodates standard size relay rack panels. Overall width 21 1/2", depth 14 1/2", inside depth 13 1/2". \*Indicates perforated cover.

Stock No.	Mfg. No.	Panel Wt.	1-14	1-14
No.	No.	Space	Lbs.	Each
40W43	C1551*	8 3/4"	22	\$32.08
40W44	C1552*	10 1/2"	24	34.80

## ECONOMY CABINETS HINGED LID TYPE



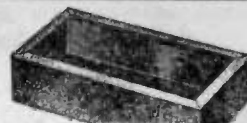
A highly desirable neatly designed low cost cabinet for receivers, instruments and other electronic equipment. Choose proper chassis from listing at right.

Black wrinkle enamel steel. Front panel removable.

Stk. No.	L.	D.	H.	Wt. Lbs.	1-24	Each
5A304	8x	8x	7"	5		\$4.10
5A302	10x	8x	7"	5 1/2		4.74
5A3	12x	8x	7"	5 3/4		4.91
5A5	14x	8x	7"	6		5.15
5A306	16x	8x	8"	7		7.46
5A307	15x	11x	9"	8		9.01
5A308	18x	12x	12"	12		9.72

## BUD STEEL CHASSIS BASES

Made from one piece of steel, corners reinforced and spot-welded. Have fold-over bottom (except where not listed), for attaching bottom plates. Choice of Zinc or Black finish. \*18 Gauge all others 20 gauge.



Size, Inches	Wt. Lb.	Chassis Bases		Chassis Bases		Bottom Plates	1-24 Ea
		Zinc	1-24 Ea	Block	1-24 Ea		
4x17x3"	2 1/4	5A287	\$2.10	5A288	\$1.76	5A141	\$1.05
5x7x2"	1 1/2	5A312	1.27	5A311	1.05	5A101	.73
5x9 1/2 x 1 1/2"	1 1/2	5A52	1.66	5A53	1.18	5A101	.73
5x9 1/2 x 2 1/2"	2	5A54	1.64	5A55	1.34	5A102	.72
5x10x3"	2	5A56	1.80	5A57	1.24	5A140	.98
5x13 1/2 x 2 1/2"	1 3/4	5A285	2.13	5A286	1.73		
6x14x3"	1 3/4	5A162	2.01	5A161	1.72		
7x7x2"	2 1/4	5A60	1.47	5A61	1.18	5A104	.95
7x9x2"	2 1/2	5A62	1.66	5A63	1.37	5A105	.97
7x11x2"	2 3/4	5A64	1.64	5A65	1.42	5A106	1.05
7x12x3"	3	5A66	2.01	5A67	1.54	5A107	1.10
7x13x2"	3 1/4	5A68	1.88	5A69	1.51	5A108	1.10
7x15x3"	3 1/2	5A70	2.35	5A71	1.96	5A109	.71
7x17x3"	3 1/2	5A72	2.54	5A73	2.11	5A110	1.34
8x12x2 1/2"	2 1/2	5A122	2.20	5A121	1.71	5A111	1.31
8x12x3"	3 3/4	5A74	2.29	5A75	1.81	5A111	1.31
8x17x3"	3 1/2	5A76	2.57	5A77	2.01	5A112	1.51
10x12x3"	3 1/2	5A80	2.20	5A81	1.85	5A114	1.54
10x14x3"	4	5A82	2.39	5A83	2.00	5A115	1.30
10x17x2"	3 3/4	5A217	2.34	5A218	1.96	5A116	1.57
10x17x3"	6	5A84	2.78	5A85	1.96	5A116	1.57
10x23x3"*	4	5A86	3.35	5A87	2.80	5A117	1.55
11x17x2"*	4 1/2	5A166	2.75	5A165	2.30	5A118	1.57
11x17x3"*	4	5A88	3.42	5A89	2.71	5A118	1.57
12x17x3"*	4	5A90	3.60	5A91	2.85	5A119	1.84
13x17x3"*	6	5A92	3.99	5A93	3.34	5A120	2.20
10x17x4"*	4 1/4	5A94	3.44	5A95	2.86	5A116	1.57
13x17x4"*	7	5A96	4.59	5A97	3.84	5A120	2.20

## AMPLIFIER FOUNDATION CABINETS



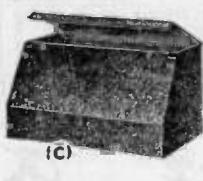
(A) Deluxe rounded corner design, chrome trim. Air vents on sides, top. All are 9" high with 3" high chassis. Grey wrinkle finish.

Stk. No.	Mfg. No.	Size	Wt.	1-49
No.	No.		Lbs.	Each
5A34	5x10"	6 lbs.	\$6.82	
5A35	7x12"	7 lbs.	7.86	
5A36	7x17"	9 lbs.	8.35	
5A38	10x17"	11 lbs.	9.08	

Bud CA1754 Minorure Size similar to (A) 6" high, 7 3/8" long, 5" deep. Perforated top with handle. 1 1/2 lbs. No. 5A31. Black Wrinkle. Ea. \$3.92



(B) Utility Type. Sturdy spot welded steel. Removable front and back covers. Black wrinkle enamel finish.



## (C) SLOPING FRONT CABINET—BLACK WRINKLE FINISH

Ideally suited for housing amplifiers, test instruments, etc. Advantages are: hinged lid for convenient access to interior; removable front panel which slopes back, placing controls, meters, etc., at proper angle to be easily read.

Stk. No.	Mfg. No.	H.	W.	D.	Lbs.	Fits Chassis	Each
5B135	C1584	6 1/2	7 1/8	7 1/8	2 1/2	7x 6x2	\$3.23
5A326	C1587	8	8 1/8	8	2 3/4	7x 7x2	4.42
5B136	C1585	6 1/2	9 1/8	7 1/8	3	7x 8x2	3.67
5A134	C1588	8	10 1/8	8	3 1/4	7x 9x2	4.91
5B139	C1586	6 1/2	11 1/8	7 1/8	3 1/2	7x10x2	4.25
5A130	C1894	8	14 1/8	8	4	7x13x2	6.23
5B142	C1892	8	13 1/8	8 1/2	5 1/4	8x12x2 1/2	6.83
5A131	C1896	9	18 1/8	8 1/8	7	7x17x3	7.53
5B144	C1893	10	18 1/8	10 1/2	8 1/2	10x17x3	7.69

Quantity Discount Schedule for above: 25 to 49 less 10%; 50 up less 20%.



## MINIATURE ALUMINUM CHASSIS

For any application requiring small, light-weight chassis. Has flange bottom for easy mounting and added strength. Suitable for miniature cabinets on opposite page.

Stk. No.	Size	Net Ea.	Stk. No.	Size	Net Ea.
20A450	2 5/8 x 2 3/4 x 1 1/4	\$0.37	20A453	4 x 3 1/2 x 1	\$0.40
20A449	1 3/4 x 3 1/2 x 1	.41	20A452	4 x 5 1/2 x 1	.52
20A448	3 1/4 x 4 1/2 x 2	.47	20A451	4 x 6 1/2 x 1	.54
20A447	2 3/4 x 4 1/2 x 1	.44	5A220	7 x 6 x 2	.98
20A446	3 3/4 x 4 1/2 x 1 1/2	.44	5A223	7 x 7 x 1 1/2	1.22
20A455	3 x 6 1/2 x 1 1/4	.62	5A221	7 x 8 x 2	1.15
5A236	4 x 4 1/2 x 1	.49	5A222	7 x 10 x 2	1.34
5A232	5 1/2 x 9 x 1 1/2	1.07	5A234	7 x 11 x 1 1/2	1.27
20A454	5 3/4 x 4 7/8 x 1 1/2	.66	5A235	7 x 13 x 1 1/2	1.56
			5A233	7 1/2 x 9 x 1 1/2	1.37

Quantity price for above; 1 to 24 Net; 25 to 49 less 10%; 50 up less 20%

## BUD CHASSIS BRACKETS

Essential for proper chassis support. Heavy gauge steel, black finish. Cut out to mount chassis flush against panel. \*For chassis up to four inches high, all others up to 3 inches high.

No.	Wt.	Depth	Hgt.	Net Pr.	No.	Wt.	Depth	Hgt.	Net Pr.
5A99	2 lbs.	8"	6 1/2"	\$1.07	5A284	3 lbs.	13"	6 1/2"	\$1.66
5A113	3 lbs.	10"	6 1/2"	1.33	5A157*	3 lbs.	10"	8 1/2"	1.93
5A98	3 lbs.	11"	6 1/2"	1.47	5A158*	4 lbs.	13"	8 1/2"	2.05
5A156	3 lbs.	12"	6 1/2"	1.72					

Quantity Prices Chassis Brackets and Panels: 1-49 net; 50 to 99 less 10%; 100 up less 20%

## CHASSIS SUPPORTING ANGLES (Not Illustrated)

Chassis slides in on top of this 3x1 3/8" pair of steel channels to relieve weight of heavily loaded chassis.

No.	Stk. No.	Length	Wt.	Per Pair
5A238	Bud No. SA1349	Length 14 1/2"	Wt. 4 lbs.	\$2.20
5A239	Bud No. SA1350	Length 12"	Wt. 3 lbs.	\$2.13

## BUD ALUMINUM CHASSIS BASES

Lightweight, exceptional strength, etched finish. Same construction as steel chassis, see illustration above. 18 gauge through size 7x13x2", 16 ga. through 10x17x3" and others 14 ga.

Stk. No.	Size	Wt.	1-24 Ea.	Stk. No.	Size	Wt.	1-24 Ea.
5B154	4x6x3"	8 oz.	\$1.31	5A207	7x15x3"	1 1/4 lb.	\$2.62
5B160	4x6x2"	8 oz.	1.08	5A208	7x17x3"	1 1/4 lb.	2.69
5B164	4x17x3"	1 1/4 lb.	2.29	5A209	8x12x3"	1 1/2 lb.	2.37
5A313	5x7x2"	8 oz.	1.15	5A317	8x17x2"	1 1/2 lb.	2.46
5B168	5x7x3"	12 oz.	1.39	5A219	8x17x3"	1 3/4 lb.	2.78
5A202	5x9 1/2 x 2"	13 oz.	1.57	5A210	10x12x3"	1 3/4 lb.	2.82
5A314	5x9 1/2 x 2"	8 oz.	1.22	5A318	10x17x2"	1 1/2 lb.	2.63
5B169	5x10x3"	12 oz.	1.60	5A211	10x17x3"	2 lb.	3.11
5A203	5x13x3"	1 lb.	1.80	5B172	10x17x4"	3 1/2 lb.	4.42
5B170	6x17x3"	1 1/4 lb.	2.62	5A155	11x17x2"	2 1/2 lb.	3.35
5A204	7x7x2"	10 oz.	1.33	5A319	11x17x3"	2 3/4 lb.	3.89
5A205	7x9x2"	12 oz.	1.43	5A212	12x17x3"	3 1/4 lb.	4.00
5A315	7x11x2"	9 oz.	1.55	5A213	13x17x2"	2 1/2 lb.	3.44
5A206	7x12x3"	1 1/4 lb.	1.96	5A213	13x17x3"	2 1/4 lb.	4.17
5A316	7x13x2"	9 oz.	1.64	5B173	13x17x4"	3 3/4 lb.	5.15

Quantity discount for all above bases; 25 to 49 less 10%; 50 up less 20%

## BUD PANEL CHASSIS

Horizontal design permits easier access for testing and maintenance. Mounts on regular 19" relay racks and cabinets. All have 19" overall length and 5 1/2" depth. Height of each shown below. Notched for same mounting as relay rack panels. Made of .062 aluminum with etched finish.



Stk. No.	Mfg. No.	Height	Weight	Net Each
5A320	CB1370	1 3/4"	3/4 lb.	\$2.25
5A321	CB1371	3 1/2"	1 1/4 lbs.	2.54
5A322	CB1372	5 1/4"	1 1/2 lbs.	2.78
5A323	CB1373	7"	2 lbs.	3.19
5A324	CB1374	8 3/4"	2 1/4 lbs.	3.68
5A325	CB1375	10 1/2"	2 3/4 lbs.	4.34
5A237	CB1376	12 1/4"	3 lbs.	4.74

Quantity Prices on Panel Chassis; 25 to 49 less 10%; 50 up less 20%.

## BUD RELAY RACK PANELS

All panels are 19" wide furnished in 1/8" steel or aluminum. Notched to RMA specifications which fits all standard racks. Finished in Black or Gray baked wrinkle finish, and the \*numbers in new Hamperitone Gray. On orders for Gray add "G" to Stock Number, for Hamperitone Gray add "HG". Black will be shipped when color is not specified. Only \*numbers are stocked in "HG" but all other sizes are available on special order.



Height	Stk. No.	Weight	Net	Stk. No.	STEEL Weight	Net
*1 3/4"	5A289	1 lb.	\$1.07	5A21*	2 lbs.	\$0.82
*3 1/4"	5A290	2 lbs.	1.39	5A22*	3 lbs.	.98
*5 1/4"	5A291	2 lbs.	1.88	5A23*	4 lbs.	1.22
*7"	5A292	2 lbs.	2.37	5A24*	6 lbs.	1.39
*8 3/4"	5A293	3 lbs.	2.78	5A25*	7 lbs.	1.71
*10 1/2"	5A294	3 lbs.	3.52	5A26*	8 lbs.	2.05
*12 1/4"	5A295	4 lbs.	4.66	5A27*	9 lbs.	2.37
*14"	5A296	4 lbs.	4.66	5A28*	10 lbs.	2.78
*15 3/4"	5A297	5 lbs.	5.23	5A29*	12 lbs.	3.03
*17 1/4"	5A298	5 lbs.	5.73			
*19 1/4"	5A299	6 lbs.	6.30			
*21"	5A300	7 lbs.	6.87			

Quantity Price on Panels: 1 to 49 net; 50 to 99 less 10%; 100 up less 20%.

## TRIANGULAR MOUNTING BRACKETS

Provides rigid support panel for chassis assemblies and for shelves. Heavy gauge steel with 3/4" flange. Black enamel.

Stk. No.	Bud No.	Height	Depth	Weight	Per Pair
5A240	MB1266	5"	5"	1 lb.	\$0.98
5A241	MB1267	7"	7"	1 lb.	1.16
5A242	MB1268	9"	9"	1 1/2 lbs.</	



# Radio Hardware



① Binder Head      ② Round Head      ③ Phillips Head      ④ Oval Head

## MACHINE SCREWS

**BRASS NICKEL PLATED**  
Bright finish—Rustproof. Non-Magnetic.

**STEEL NICKEL PLATED**  
Bright finish—Rust-proof. Greater strength.

Please indicate B-A Stock No. and Quantity desired when ordering. Please add on "X" to B-A Stock No. when ordering 35c packaged hardware. \*Quantities shown in 35c packages are approximate.

### (1) BINDER HEAD

4-36 Nickel Plated BRASS						4-40 Nickel Plated STEEL							
Brass Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M	Steel Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M
19B719	1/4	20	.87	3.91	7.02	6.32	19A706	1/4	40	.49	2.21	3.99	3.59
19B732	20	.98	4.41	7.87	7.08	19A708	3/8	35	.52	2.34	4.20	3.78	
19B736	1/2	20	1.09	4.90	8.71	7.84	19B774	1/2	35	.60	2.70	4.52	4.07

6-32 Nickel Plated BRASS						6-32 Nickel Plated STEEL							
Brass Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M	Steel Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M
19B856	1/8	18	1.14	5.13	8.13	8.22	19A715	1/8	40	.51	2.30	4.14	3.73
19B863	1/8	18	1.31	5.99	10.51	9.46	19A718	3/16	35	.54	2.43	4.40	3.96
19B876	1/8	17	1.49	6.70	11.89	10.70	19A721	1/4	30	.62	2.79	5.00	4.50
19B877	1/8	15	1.79	8.05	14.33	12.90	19B727	3/8	30	.76	3.42	6.12	5.51
19B883	1	13	2.14	9.63	17.09	15.38	19B775	1	30	.90	4.05	6.79	6.11

8-32 Nickel Plated BRASS						8-32 Nickel Plated STEEL							
Brass Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M	Steel Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M
19B882	1/4	15	1.64	7.38	13.09	11.76	19B781	1/4	30	.67	3.01	5.32	4.79
19B760	1/4	15	1.86	8.37	14.89	13.46	19A746	3/8	25	.70	3.15	5.63	5.07
19B886	1/4	13	2.09	9.40	16.69	15.02	19A750	1/2	25	.76	3.42	6.12	5.61
19B887	1/4	10	2.59	11.65	20.68	18.61	19A754	3/4	23	.91	4.09	6.83	6.15
19B888	1	8	3.08	13.86	24.59	22.13	19A759	1	20	1.10	4.95	8.30	7.47

### (2) ROUND HEAD

2-56 Nickel Plated BRASS						2-56 Nickel Plated STEEL							
Brass Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M	Steel Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M
19B703	3/8	20	.89	3.10	5.60	5.04	19A701	3/8	40	.44	1.98	3.59	3.23
19B997	20	.72	3.24	5.78	5.20	19A702	1/2	40	.46	2.02	3.67	3.30	
19B982	20	.77	3.46	5.86	5.27	19B768	3/4	40	.47	2.11	3.78	3.40	

4-36 Nickel Plated BRASS						4-40 Nickel Plated STEEL							
Brass Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M	Steel Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M
19A1000	1/4	20	.87	3.91	7.02	6.32	19A707	1/4	40	.47	2.11	3.78	3.40
19B710	1/4	20	.98	4.41	7.87	7.08	19A855	3/8	40	.49	2.20	3.99	3.59
19A1001	1/2	20	1.09	4.90	8.71	7.84	19B771	1/2	35	.50	2.25	4.09	3.69
19A1002	1	20	1.45	6.52	8.88	8.89	19B772	1	25	.59	2.65	4.79	4.31

6-32 Nickel Plated BRASS						6-32 Nickel Plated STEEL							
Brass Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M	Steel Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M
19B744	1/8	20	1.09	4.90	8.97	8.07	19A857	1/8	30	.49	2.20	3.99	3.50
19A1003	1/8	20	1.14	5.13	9.13	8.22	19A855	3/16	35	.51	2.30	4.15	3.74
19A1004	1/8	17	1.31	5.99	10.51	9.46	19A858	1/4	30	.56	2.52	4.50	4.05
19A1005	1/8	15	1.49	6.70	11.89	10.70	19A859	3/8	30	.60	2.70	4.82	4.34
19B745	1/8	15	1.64	7.38	13.12	11.81	19A860	1/2	30	.66	2.97	5.20	4.68
19A1006	1/8	15	1.79	8.05	14.33	12.90	19A723	3/4	30	.70	3.15	5.67	5.10
19A1007	1	13	2.14	9.63	17.09	15.38	19A733	1	30	.81	3.64	6.52	6.87
19B896	2	4	3.93	17.68	31.44	28.30	19B1070	2	20	1.21	5.44	8.99	8.09

8-32 Nickel Plated BRASS						8-32 Nickel Plated STEEL							
Brass Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M	Steel Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M
19A1010	1/4	15	1.86	8.37	14.89	13.40	19A870	1/4	25	.72	3.24	5.85	5.26
19A1011	1/4	13	2.09	9.40	16.69	15.02	19A751	3/8	25	.78	3.51	6.34	5.71
19A1012	1/4	8	3.08	13.86	24.59	22.13	19B777	1	20	1.03	4.63	8.31	7.43
19B1064	1 1/2	4	4.40	19.80	33.00	29.70	19B1071	1 1/2	18	1.47	6.61	11.03	9.93
19B898	2	2	5.90	26.55	34.30	30.87	19B802	2	10	1.97	8.86	14.78	13.30
19B1033	3	2	7.89	35.50	59.20	53.26	19B803	3	8	2.63	11.63	19.73	17.76

10-32 Nickel Plated BRASS						10-32 Nickel Plated STEEL							
Brass Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M	Steel Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M
19B711	1/4	10	2.46	11.07	19.71	17.74	19A767	1/4	22	.85	3.96	7.20	6.48
19B712	1/4	10	2.71	12.19	21.66	19.49	19B1072	3/8	20	.92	4.14	7.47	6.72
19B720	1/4	8	3.32	14.94	26.57	23.91	19A773	1/2	20	1.09	4.90	8.74	7.86
19B729	1	5	3.99	17.95	31.93	28.73	19B1074	1	17	1.21	5.44	9.83	8.89

1/4-20 Nickel Plated STEEL						
Brass Stock No.	Lgth. Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M
19A766	1	8	2.44	10.98	18.30	16.47
19B1078	2	7	3.45	15.52	28.88	25.99

### (3) Phillips Round Head N.P. Brass

### (4) Oval Head (Rock Screws) N.P. Steel

Brass Stock No.	Size Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M	Steel Stock No.	Size Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M
19B779	6-32-1/2	14	1.41	6.34	11.60	9.44	19A930	6-32-1/2	30	.61	2.74	4.83	4.36
19B780	6-32-1/2	13	1.74	7.83	14.20	12.78	19A931	8-32-1/2	25	.72	3.24	5.40	4.86
19B788	8-32-1/2	13	1.96	8.82	15.01	13.51	19A932	10-32-1/2	20	.93	4.18	7.45	6.71
19B787	8-32-1/2	10	2.34	9.53	19.37	17.43	19A933	10-32-3/4	20	1.10	4.95	8.75	7.87

## RADIO HARDWARE ASSORTMENT

Nuts, washers, grommets, springs, clamps, eyelets, screws, etc. A part to fill practically any occasional need. Very handy for workshop or tool box. Over 600 pieces contained in a clear plastic box.  
No. 11A335. Net Each. . . . \$1.15

## THREADED BRASS RODS

Ideal for making your own long screws by cutting to any desired length. Supplied in 12" lengths.  
No. Size Each 10 Ea.  
19B805 6-32 \$.29 \$.20  
19B807 8-32 .37 .25  
19B809 10-32 .46 .30



### (1) HEXAGON NUTS

BRASS NICKEL PLATED Rustproof, Non-Magnetic							STEEL NICKEL PLATED Rustproof—greater strength						
Stock No.	Size Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M	Stock No.	Size Inches	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M
19A1026	2-56-3/4	35	.98	4.32	7.07	6.36	19B873	2-56-3/4	40	.60	2.70	4.85	4.36
19A1013	4-36-1/4	35	1.16	5.22	9.22	8.30	19A789	4-40-1/4	40	.64	2.88	5.17	4.65
19A1014	6-32-1/4	25	1.14	5.13	9.11	8.20	19B874	6-32-1/4	40	.67	3.01	5.39	4.85
19A1015	6-32-3/8	20	1.14	5.13	9.11	8.20	19A792	6-32-3/8	40	.71	3.19	5.69	5.12
19A1016	8-32-3/8	25	1.14	5.13	9.11	8.20	19A794	8-32-3/8	40	.71	3.19	5.14	4.63
19A1017	10-32-3/8	15	1.51	6.79	12.02	10.82	19A897	10-32-3/8	40	.93	4.18	7.52	6.77
							19B798	1/2-20-3/4	25	1.30	5.85	10.40	9.38

### (2) MOUNTING NUTS

NICKEL PLATED STEEL  
Toggle switch nuts are Brass N.P. others steel N.P. Rotary switch type is 1/8" wide. All others are 3/16" wide.

Stock No.	Type	Thrd.	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M
19C978	Rot. Sw.	3/16-32	10	1.91	9.17	15.29	
19C985	Vol. Con.	3/16-32	8	2.17	9.76	17.31	
19C987	Rot. Sw.	1/8-27	7	4.52	20.34	35.12	
19C990	Rot. Sw.	1/8-27	8	3.08	13.66	24.83	

### (3) ROUND RING NUT

19C991	10-32	8	3.50	16.65	27.23	
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### (4) CAP NUTS

BRASS NICKEL PLATED						
Stock No.	Size	*Qty. in 35c Pkg.	100 For	500 For	1000 For	5000 Per M
19A824	6-32	6	3.71	16.69	29.66	
19A925	8-32	6	3.71	16.69	29.66	
19A926	10-32	5	4.94	22.23	39.50	

### (5) WING NUTS

NICKEL PLATED STEEL						
Stock No.	Size	*Qty. in				



# TV & Radio Hardware



\*Quantities shown for each assortment are approximate.

**HANDY ASSORTMENTS**

NET EACH

## 35¢

IN CLEAR PLASTIC BOXES

PLEASE SPECIFY BOTH STOCK No. 19B1199 AND G-C NUMBER WHEN ORDERING

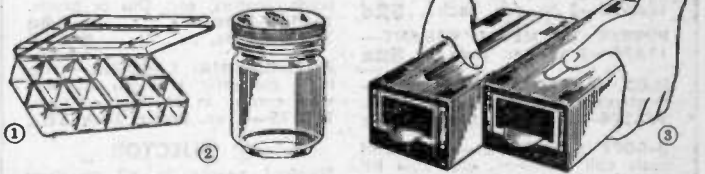
Description	Fig.	G-C No.	*Qty.	Description	Fig.	G-C No.	*Qty.
Allen Hex Set Screws, assorted lengths 8-32	1	H1678F	5	Phono Drive Belts—VM, GI, Garrard	15	H014F	4
Cable Holder Clamps	2	H500F	20	Phono Drive Rubber Tires, VM, GI, 3 Speed	15	H017F	3
Cord Strain Reliefs	3	H048F	5	Radio-Knob Push-On Springs	16	H480F	18
Dial Drive Springs, Regular	4	H401F	8	Rivets and Eyelets	17	H526F	55
Dial Pulleys, Brass	5	H1966F	6	Rubber Feet, Screw Type	18	H050F	8
Grommets, Gum Rubber	6	H040F	12	Set Screws, Radio Knob Type	19	H1605F	15
Grommets, Plain Rubber	6	H025F	15	Sheet Metal Screws, Hex H. 4, 6, 8, 10	20	H1300F	25
Hole Plugs, Snap Button	7	H300F	8	Trimounts, Snap-in	21	H370F	20
Lugs, Soldering	8	H100F	30	Twin Lead Wiring Nails	22	H565F	35
Mach. Screw & Nuts, Steel N.Pl. 4-36 to 10-32	9	H1001F	40	Vent. Plugs, Punched Holes, Snap-In for 1" Holes	23	H334F	4
Mach. Screw, Blinder H., Steel N.Pl. 4-36 to 10-32	10	H1168F	35	Washers, "C" & Retaining Ring	24	H770F	25
Nuts, Hex, Steel Nickel Plated 4-36 to 10-32	11	H1800F	30	Washers, Cup, Asst. 6, 8, 10	25	H805F	40
Nuts, Mtg. Vol. Control & Switches	12	H1920F	12	Washers, Extruded Fibre	26	H855F	30
Nuts, Tinnerman Speed	13	H1960F	30	Washers, Lock, Sizes 2, 4, 6, 8, 10, All Types	27	H918F	45
Phono Cartridge Mtg. Screws	14	H1560F	60	Washers, Metal Nickel Plated	28	H870F	80

## ALWAYS NEEDED HARDWARE



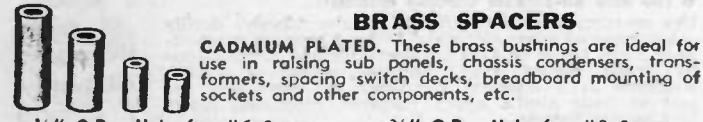
① CABLE CLAMPS				② CINCH CABLE CLAMPS				③ NYLON CABLE CLAMPS				④ ANGLE BRACKETS			
Heavy gauge steel, cadmium plated. 3/8" wide with No. 6 mounting hole. Fits cable up to size shown.				Brass nickel plated with 6-32 screw.				Hold their shape under severest stress. Stands temp. of -60 to 250 degrees F., do not support combustion.				Hardened Brass, Nickel Plated, 3/8" W.			
No.	I.D.	Each	10 For	No.	I.D.	Each	10 For	No.	I.D.	Each	10 For	No.	Size	Each	10 For
12A1303	1/2"	\$0.19	\$1.25	12A1590	1/4"	\$0.12	\$1.08	12A1098	1/4"	\$0.06	\$0.39	12A1314	1/2x1/2"	\$0.03	\$0.19
12A1304	3/4"	.19	1.10	12A1591	3/8"	.13	1.17	12A1099	1/2"	.06	.39	12A1315	3/8x3/8"	.06	.38
				12A1592	1/2"	.14	1.28	12A1255	3/8"	.07	.45				
				12A1593	5/8"	.14	1.28	12A1345	3/8"	.07	.47				
				12A1594	3/4"	.15	1.35	12A1346	1/2"	.08	.53				
				12A1595	7/8"	.15	1.35	12A1347	3/8"	.09	.66				

## HANDY STORAGE CONTAINERS



① CLEAR PLASTIC UTILITY BOXES, HINGED LIDS				② HANDY GLASS JARS WITH LIDS				③ CLEAR POLYSTYRENE JARS			
Here it is, just the thing for keeping those screws, nuts, lugs, and other small parts separated and easy to find. Ideal for the work bench and for carrying parts on out-of-the-shop jobs. Hinge covered and with partitions. 18 Section Box. 11x6 3/4 x 1 1/8", consisting of 18 compartments 1 3/4 x 2 1/8" with overall hinged lid. Wt. 1 lb.				For visible storage of small parts. Screw-on metal lid included. 5A190. 2-oz. 2 1/8" dia. x 1 3/4" H. 5A191. 4-oz. 2" dia. x 4" H. Each... 10c; Per Doz... \$1.04 Each... 13c; Per Doz... \$1.38 Carton of 48... \$3.10 Carton of 48... \$4.14				Made of extra thick heavy gauge shatterproof polystyrene affording years of re-useable service. Each jar comes with a lined screw-on black metal lid. These jars are ideal for storage of miscellaneous hardware and parts. They may even be used for storing various types powdered chemicals.			
No.	Size	Net Each	6 Lots, Each	No.	Capacity	Net Each	6 Lots, Each	No.	Capacity	Net Each	6 Lots, Each
16A386	11x6 3/4 x 1 1/8"	\$1.39	\$1.16	5A190	2-oz.	\$1.04	\$1.10	11A224	2.5 Oz.	\$1.25	\$5.00
12 Section Box. 11x6 3/4 x 1 1/8", consisting of compartments: 6 small 1 3/4 x 2 1/8", 6 large 1 3/4 x 4 1/4" with overall hinged lid. Wt. 1 lb.				5A191	4-oz.	\$1.38	\$1.10	11A225	4.6 Oz.	\$1.58	\$6.88
16A387	11x6 3/4 x 1 1/8"	\$1.32	\$1.10	Carton of 48		\$3.10	\$4.14	11A227	8 Oz.	\$2.10	\$9.17
12 Section Box. 8 1/4 x 4 1/4 x 1 1/4", consisting of compartments: 6 small 1 3/8 x 1 3/8", 4 Medium 1 3/8 x 2 3/8", and 2 large 1 3/8 x 4 1/4" with overall hinged lid. Wt. 1 lb.											

## BRASS SPACERS



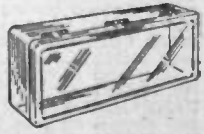
1/4" O.D.—Hole for #6 Screw				3/8" O.D.—Hole for #8 Screw			
Stk. No.	Lgth.	Each	10 For	Stk. No.	Lgth.	Each	10 For
12A1173	1/4"	\$0.05	\$0.35	12A1178	1/4"	\$0.08	\$0.57
12A1174	3/8"	.07	.47	12A1179	3/8"	.09	.68
12A1175	1/2"	.08	.57	12A1180	1/2"	.10	.78
12A1176	3/4"	.09	.68	12A1248	3/4"	.12	.90
12A1177	1"	.10	.78	12A1249	1"	.14	.99

## INSULATED SPACERS

Fibre bushings 1/4" outside diameter with hole for #6 screw for raising condensers, transformers, etc.				Fibre bushings 3/8" outside diameter with hole for #8 screw for raising condensers, transformers, etc.			
Stk. No.	Lgth.	Each	10 For	Stk. No.	Lgth.	Each	10 For
12A1469	1/4"	\$0.07	\$0.42	12A1250	1/4"	\$0.07	\$0.42
12A1470	3/8"	.08	.53	12A1251	3/8"	.08	.54
12A1471	1/2"	.09	.65	12A1252	1/2"	.09	.65
12A1472	3/4"	.10	.78	12A1253	3/4"	.10	.78
12A1473	1"	.12	.89	12A1254	1"	.12	.89

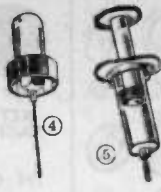
## SINGLE COMPARTMENT CLEAR PLASTIC CASES

IDEALLY SUITED FOR BUILDING MINIATURE RADIOS, ETC.					
Stk. No.	L.	W.	D.	Type Lid	Each 3 For
16A843	4 1/2"	2 3/4"	1 1/4"	Hinged	39c \$1.00
16A844	6 1/2"	4"	1 5/8"	Removable	49c 1.35
16A845	7"	3 1/2"	1 1/4"	Hinged	49c 1.35





# Chemicals & Service Aids



## ① CEMENTS

**SERVICE CEMENT**—For replacing and repairing speaker cones; sealing adjustments, cementing loose tube bases, etc. Vibration and waterproof. Fast drying.

11A33—2 oz. .... \$0.47  
 11A38—Tube ..... .47  
 11A678—8 oz. .... \$1.24  
 16A499—1 Pt. .... \$2.14

**SERVICE SOLVENT**—Loosens old cement. Also thinner for above.

11A35—2 oz. .... \$0.44  
 11A679—8 oz. .... 80c  
 16A498—1 Pt. .... 1.29

**PLASTIC & BAKELITE CEMENT**—

16A440—2 oz. Jar, Each. .47c

**VINYLTITE CEMENT**—A plastic cement for nonporous materials.

16A441—2 oz. Jar, Each. .47c

**LUCITE CEMENT**—For lucite, plexiglass and other acrylic materials. Fast drying.

16A575—2 oz. Jar, Each. .52c

**RUBBER TO METAL CEMENT**—

11A76—2 oz. Jar, Each. .52c

**ELEC. & RESISTOR CEMENT**—Heat-proof, hardens like porcelain.

16A474—2 oz. Jar, Each. .47c

**Q-DOPE (COIL DOPE)**—Coats and seals coil windings, etc. Low RF loss. Ideal for Hi-Freq. use.

11A25—2 oz. Bottle, Each. .47c

**② CEMENT LAB KIT**  
 14 different 2 oz. bottles cement for any requirement.  
 No. 22B234. Per Kit. .... \$5.85

## ③ CHEMICALS

**CARBON CONTROL CLEANER**—Repairs noisy volume controls, switches, etc. while chassis is in cabinet. Applicator supplied.

16A443—2 oz. Jar, Each. .44c

**"NO-OX" CONTACT CLEANER**—Dissolves corrosion by chemical action. Contains no solvent.

11B68—1 oz. .... 68c  
 11B174—2 oz. .... 95c

**CARBON TET**—100% pure. Dissolves dirt and grease. Use on chassis, parts, etc.

11A680—8 oz. .... 78c  
 11A661—16 oz. .... \$1.24

**LUBE-REX**—Repels moisture, prevents rust and corrosion. Lubricates dials, switches, etc.

11A21—2 oz. Bottle, Each. .47c

**INSULATING VARNISH**—Produces waterproof, oilproof, non-corrosive film on coils, transformers, solenoids, motors, etc. Dip or brush.

11B71—2 oz. .... 52c  
 11A27—8 oz. .... \$1.16

**ANTI-CORONA LACQUER**—Has high dielectric strength to prevent corona in TV high voltage.

11B175—2 oz. Bottle, Each. 70c

## ④ INJECTOR

Surgical needle in oil resistant rubber bulb.

No. 11B234. Each. .... 44c

## ⑤ LUBRICATOR

Spring plunger releases lubricant.

No. 11B150. Each. .... 52c

## NO-ARC SPRAY INSULATOR



20,000 Volts Dielectric Strength

Provides a tough insulating coating to prevent arcing and corona shorts. Spray on transformers, yokes, printed circuits, etc.

No. 11A374  
 8 oz. Spray Can. \$2.73

## TUN-O-LUBE TUNER CLEANER



Just spray it on—cleans and lubricates all types of tuners. Leaves a long lasting protective coating against noise and oxidation. Non-inflammatory, non-toxic.

No. 11A373.  
 8 oz. Spray Can. \$1.94

## "DURO" PLASTIC MENDERS



Easiest, most economical means ever to accomplish hundreds of "fix-it" jobs. Perfect for the home, auto, boat, shop and farm. Just apply and let dry, provides a permanent bond to almost any surface.

**DURO PLASTIC ALUMINUM.** Repairs metal, wood or concrete. Seals, solders, and repairs—hardens to metal in a few hours. Stands 600° F. not affected by gasoline, oil or water.

No. 11A433. Large 5 1/2 oz. Tube. 75c Net Each. .... \$2.99

No. 11A494. Qt. Can, 3 lbs. Net Each. .... \$2.99

**DURO PLASTIC RUBBER.** Repairs most anything made of rubber, plastic and canvas. Chemically made of rubber, plastic and canvas. Chemically heat or flame—waterproofs, rustproofs, insulates.

No. 11A433. Large 5 1/2 oz. Tube. 75c Net Each. .... \$2.99

**DURO WHITE PLASTIC PORCELAIN.** In liquid form—air dries to a vitreous kiln hardened finish. Repairs porcelain which has become cracked, chipped or worn down to the bare metal—waterproof, heatproof, chip-proof. Absolutely will not yellow.

No. 11A450. Contents 1 3/4 Oz. Net Each. .... 75c

**DURO E-POX-E-CHEMSTEEL KIT.** Hardens into solid metal—chemically welds, seals, solders and fills metal. Consists of 3 component parts: 1, E-POX-E resin; 2, hardener; 3, atomized steel.

No. 11A449. Wt. 12 oz. Kit Net Each. .... 75c

**DURO PLASTIC MENDER (transparent).** Repairs all vinyl plastics—just apply and let dry. Once dry, it's not affected by oil, water or gasoline and will withstand boiling water.

No. 11A452. 3/4 oz. tube. Net Each. .... 33c

**DURO RUST REMOVER.** Cleans and polishes chrome, aluminum, copper and most metals. Leaves a transparent film of protection to help prevent further rusting and tarnishing.

No. 11A451. 4 1/2 oz. tube. Net Each. .... 59c

**HANDYMAN REPAIR KIT.** Four 75c tubes of aluminum, rubber, porcelain and chem-steel plus Duro rust remover.

No. 11B432. Special, Per Kit. .... \$3.21

## G-C SPRA-KOAT PRODUCTS

16-OZ. POWER SPRAY CANS—BRUSHLESS! CLEAN!  
 RUF-KOAT SPRAY  
 AIR-DRYING WRINKLE VARNISH

Can be air-dried or baked. The only finish that will air-dry and give a professional wrinkle job without baking. It is the same finish employed by manufacturers on PA equipment, chassis, panels and racks. Easy to use. Available in both Black and Gray.

11A671. GC-12 Black. .... \$2.21  
 11A762. GC 60-13. Gray. .... \$2.21

**TELEPHONE BLACK AND GRAY**  
 A high grade satin finish enamel spray.

11A667. GC 6-12. Black. Ea. .... \$2.25  
 11A668. GC 62-13. Gray. Ea. .... \$2.25

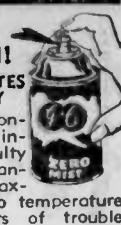
G-C ZERO-MIST LOCATES TROUBLE INSTANTLY

Spray electronic components in operation, cools instantly pin-pointing faulty capacitors, resistors, transistors, cold solder and oxidized junctions, due to temperature variances. Saves hours of trouble shooting.

No. 11A629. GC 8667. Net Ea. \$2.37

**TOUCH-UP VARNISH**  
 Scratches Gone Like Magic—makes old metal or wood look like new.

11A669. GC 161-3. Mahogany \$2.09  
 11A670. GC 161-5. Walnut. .... \$2.09



## G-C SPRA-KLEEN

Just Spray it on—Eliminates Noise on Electrical Contacts.

No Fuss or Fuss—Just Spray it on to clean and lubricate all electrical contacts, relays, switches, controls and other moving parts in one fast simple operation—no need to remove parts. Provides noise-free performance.

11A361. 6 oz. .... 97c

**G-C PLI-O-BOND CEMENT**  
 It bonds anything to anything—iron, steel, plastic, glass, aluminum, cotton, vinyl sheets, stainless steel, etc. A truly universal cement.

11A424. G-C 43-2, 2 oz. bottle with brush. .... 52c  
 11A681. G-C 43-8, 8 oz. .... \$1.34

## PRINTED CIRCUIT REPAIR KIT

All the material needed to repair any Printed Circuit in Radio and TV sets using Printed Circuits. Kit: 2 oz. Print-Kote Sillicone Resin, 2 oz. Print-Kote Solvent, 1/2 oz. of Pure Silver Print, 1 Solder Probe Tool, 1 Stainless Brush and Scraper, Print-Kote Solder, plus a Printed Circuit Service Manual.

11A396. G-C 680 Kit, Net Ea. \$5.73

## MARKING KIT

RMA 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. 11A57.  
 Per Kit ..... \$1.44

## WALSCO CONTACTENE

Lubricates as it Cleans  
 Fast Acting—Quick Drying

Specially compounded to lubricate any moving contact. Complete with brush applicator.

MFT 80-02, 2 oz. No. 11A429 ..... 52c  
 MFT 80-04, 4 oz. No. 11A430 ..... 66c

## POCKET LUBRICATOR

Handiest, sturdiest applicator ever devised. Telescoping spout permits accessibility to difficult places requiring lubrication. Clever system releases one drop at a time. Does not leak.

No. 11B140. 88c Each. .... 88c

## "QUIETROLE"

Stops noisy operation of switches, volume and tone controls without removal from chassis. Makes all moving parts quiet.

11B4. 2 oz. .... \$1.69  
 11B5. 4 oz. .... \$2.54

## "QUIETROLE" SPRAY

6 full oz. of the finest available lubricant-cleaner now in spray can.

No. 11B6. Per Can. .... \$2.79

## KESTER SILVER SOLDER

FOR PRINTED CIRCUITS

Contains 3% silver, 61 1/2% tin, 35 1/2% lead with an .062 diameter.

11A700. 1 lb. spool. Net Ea. \$3.51



## "MIRACLE EPIBOND" PLASTIC EPOXY OF A THOUSAND USES

• Super strength bonds to metal, glass, wood, plastics, fabric, concrete, etc.

• The only all-purpose banding material!

Has amazing super-strength and superior adhesive quality—surpasses all other materials! Epibond provides a permanent bond, sealer or filler to practically any surface—can be drilled, tapped, filed, machined, sawed or sanded. Available in 5 different kits, each kit containing one pint of basic plastic epoxy, hardener, measuring spoon, and mixing spatula.

**CHOOSE THE KIT FOR YOUR PARTICULAR JOB**

**Laminating Kit** . . . for reinforcement of glass, plastics, fabrics; repair of gutters, spouts, boats, etc.  
 No. 11A340. Mfg. list \$4.00. Shpg. wt. 2 lb. Kit Ea. .... \$2.99

**Costing Kit** . . . for casting of parts, electrical potting of connectors, repairing cracks in concrete floors, etc.  
 No. 11A341. Mfg. list \$4.00. Shpg. wt. 2 lbs. Kit, Each. .... \$2.99

**Coating Kit** . . . for sealing cracks in walls and concrete, sheet metal bonding and sealing.  
 No. 11A342. Mfg. list \$4.00. Shpg. wt. 2 lbs. Kit Each. .... \$2.99

**Aluminum Paste Kit** . . . for general metal repair, bonding and sealing leaky radiators and pipes.  
 No. 11A344. Mfg. list \$4.00. Shpg. wt. 2 lbs. Kit Each. .... \$2.99

**Steel Paste Kit** . . . for repairing of metal structures, auto body repair, bonding metal to metal, etc.  
 No. 11A345. Mfg. list \$4.00. Shpg. wt. 2 lbs. Kit Each. .... \$2.99





# The Finest Television Antennas

## Winegard SUPER POWERTRON

THE ELECTRONIC ANTENNA

30 ELEMENTS PLUS  
TRANSISTORIZED  
INTENSIFIER

WITH UP TO 9 TIMES MORE  
GAIN ON ALL CHANNELS,  
BLACK & WHITE OR COLOR

HERE'S WHAT THIS SUPER  
POWERFUL ANTENNA  
CAN DO FOR YOU . . .

- Virtually eliminate snow and interference.
- Operate up to 1/4 mile from the TV set.
- Drive up to 10 TV outlets directly.
- Provide easier lower height installation.
- Give lasting service because of finest construction.

\$104.95  
MFG. LIST  
**\$61<sup>71</sup>**



GOLD ANODIZED  
MODEL SP55X

**BUY YOUR TV  
ANTENNAS  
FROM B-A  
WITH COMPLETE  
CONFIDENCE!**

We have pre-selected only items of best value, quality and performance . . . made your choice, whether for a new installation or for replacing an old worn out one, easier and safer . . . and you have B-A's money back guarantee that every item is exactly as represented.

**USE OUR EASY-PAY  
PLAN**

See Order Blank for Easy Pay Plan on orders totaling \$40.00 or more.

### SUPERB PERFORMANCE ON ALL CHANNELS 2-13

Almost without exception a Winegard Powertron will greatly improve every channel you watch, clear up snow and interference and make weak, faded pictures become crisp and clear . . . just like adding new channels in many locations. Compared to the famous Winegard CL4 Color Ceptor the Powertron delivers tremendous signal gains of 19 db, equal to 81 times the power or 9 times the signal voltage.

There's nothing finer for excellent color or black and white because of near perfect linear frequency response and perfect impedance match to the lead in. The electronic intensifier is coupled direct, built-in, not an add-on feature.

Operating power for the electronic intensifier is supplied at a safe 12 volts and fed up the same lead that carries the TV signals to the power coupler

at the set. Using 300 ohm line, antenna can be removed up to 1/4 mile, up to several hundred feet using RG59 coax. Fitted for both types of lead, constructed entirely of heavy duty gold anodized aluminum and iridized weatherproof hardware, completely preassembled for fast, easy installation. With power units, less mast and 300 ohm lead. Installed size 110" W, 184" long. Shpg. wt. 19 lbs.

No. 7A118. Mfg. list \$104.95. **Net Each . . . . . \$61.71**

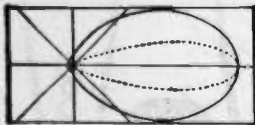
WINEGARD 300 OHM LINE TAPS FOR MULTIPLE OUTLETS

"Through-line" type couplers for extending TV lead to other rooms. The Powertron will handle up to 6 in fringe areas, up to 10 in normal areas. No. 18B502. Surface Type. Mfg. list \$4.95. **Net Each . . . . . \$2.91**  
No. 18B501. Flush, in-wall type. Mfg. list \$3.50. **Net Each . . . . . \$2.08**

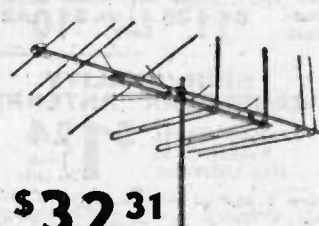
### FOR A NEW HIGH IN PERFORMANCE THE PRECISION-ENGINEERED TACO T-BIRD ANTENNA

GUARANTEES HIGH-POWERED  
CHANNEL 2-13 RECEPTION OF  
BLACK & WHITE OR COLOR TV

- 12 1/2 db gain, 20 db front to back ratio.
- True single lobe response.



MFG.  
LIST  
\$54.95  
**\$32<sup>31</sup>**



BACKED BY WRITTEN 12 MONTH GUARANTEE!

FINEST ENGINEERING, HIGHEST QUALITY MATERIALS THROUGHOUT

Brightens and sharpens pictures on any set at distances far beyond normal because of outstanding technical excellence. Laboratory checked and proved to show a gain of 12 1/2 db, believed to be the highest ever attained for an all-channel antenna without amplifier. Sensitivity across individual channels is controlled to ± 1 db guaranteeing full picture fidelity. Shuts out side and rear interfering signals and ghosts due to sharp single lobe pickup pattern. Matches 300 ohm line impedance with near perfection on all VHF channels.

Mechanically strong all-aluminum construction, thoroughly weather protected, assures long service life. Comes pre-assembled, quick-rigged for fast installation. Less mast and 300 ohm line. Shpg. wt. 12 lbs. Mfg. list \$54.95.

No. 9A71. Taco 707-8  
T-Bird Single Bay. Net Each . . . . . **\$32.31** 6 Lots, **\$29.67** Each . . . . .

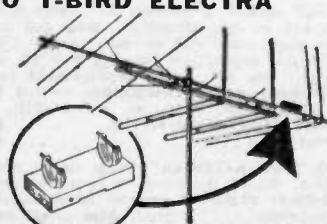
### GREATER PERFORMANCE STILL! TRANSISTORIZED TACO T-BIRD ELECTRA

WITH BUILT-IN ELECTRONIC  
AMPLIFIER

MFG. LIST  
\$109.75  
**\$64<sup>53</sup>**

SUPER CHARGES SIGNALS  
ON ALL CHANNELS 2-13

- Operates 2 sets directly.
- Allows lower antenna height.



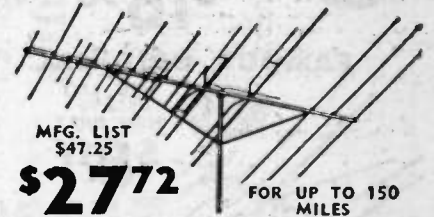
So powerful that the antenna may be located up to 1/4 mile from TV set without any additional boosters or amplifiers or it can be installed at lower height than normal and thereby save extra cost of high tower or mast. Automatically this matched system feeds two TV sets or TV and FM with the finest possible pictures and sound. AC operated coupler at the set feeds low voltage power for the weather proof antenna mounted amplifier through the 300 ohm signal lead. Installation is as simple as for an ordinary antenna. Features same fine long-life construction as model 707-8 above. Less mast and 300 ohm lead. Shpg. wt. 14 lbs.

No. 9A75. Taco G990-8  
Mfg. list \$109.75. Net Each . . . . . **\$64.53** 6 Lots, **\$59.26** Each . . . . .

### WINEGARD CHANNEL 2-13 ANTENNAS

HIGH POWER  
18 ELEMENT  
COLOR 'CEPTOR  
FOR BLACK & WHITE  
OR COLOR

- Durable Gold Anodized
- All Aluminum Construction



MFG. LIST  
\$47.25  
**\$27<sup>72</sup>**

FOR UP TO 150  
MILES

Precision 18 element antenna with Power Pack, incorporating the Winegard Electro-Lens principle. Produces super high gain on all 12 VHF channels (up to 16 db). Exceptional front-to-back ratio of 31 db average virtually eliminates "venetian blind" effect caused by co-channel interference. Ultra-linear flat responses across all channels provides utmost color fidelity and best obtainable black and white reception. Mechanically balanced for use with a rotator. Constructed of protective gold anodized aluminum for extra long life and resistance to corrosive effects of smoke-heavy atmosphere or salt spray. Factory pre-assembled, with "automatic" hardware and high-impact polystyrene insulators. Wt. 11 lbs. Less mast and 300 ohm line.

No. 7A122. Mfg. list \$47.25.  
Single Bay CL-4X. Net Each . . . . . **\$27.72**

#### 11 ELEMENT COLOR 'CEPTOR MODEL CL-4

Smaller, less powerful antenna incorporating the proven Electro-Lens principle. Produces superb results on all 12 VHF channels in black and white or color. Recommended for all areas, even the fringe, except where super power is needed. Constructed of gold anodized aluminum. Less mast and 300 ohm lead. Wt. per bay 8 lbs. Mfg. list \$31.50.

No. 7A124. Single Bay CL-4. Net Each . . . . . **\$18.45**

TWO BAY STACKING HARNESS ONLY. For CL4 or CL4X. For wide spacing. Gold anodized.

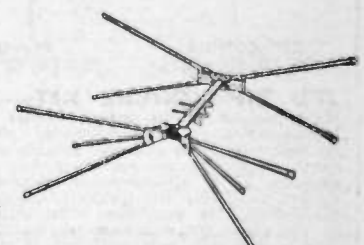
7A72. Model SB-4C. Mfg. list \$3.35. Net Each . . . . . **\$1.94**

TENNA TOP-QUALITY  
PRE-ASSEMBLED  
10 ELEMENT CONICALS

SINGLE BAY **\$311**  
6 LOTS, EACH

SINGLE OR TWO-BAY STACK  
FOR CHANNELS 2-13

- Carefully engineered for brilliant results even on the difficult high channels.



Each bay has six forward elements, 4 reflectors. Quality all-aluminum construction with "Presto Instant Mount Assembly". Spring action clamps position elements securely, thumb nuts hold them permanently . . . as quick and easy to set up as opening an umbrella! Less mast and 300 ohm lead.

No. 6A146. Two Bay, Model T-742A. **\$3.48** 6 Lots, **\$3.11** Each . . . . .

No. 6A147. Two Bay Model T-742A. **\$7.25** 6 Lots, **\$6.52** Each . . . . .

Replace Weather-worn Antennas with These Modern Arrays



# JFD Television Antennas

## HI-FI SATELLITE HELIX MODEL VXIII



- For up to 150 miles.
- 31 working elements.
- All channels 2-13.

Ultra sensitive satellite Helix design shrinks the miles and flattens the mountains for brilliant movie-clear pictures out in the deep fringe. Has very high gain of 10 db on high band, 7 db on low band.

MFG. LIST \$49.50  
**\$29<sup>10</sup>**



Needle-sharp directivity helps reject ghosts and troublesome interference. Multi-purpose directors and reflectors provide amazing front-to-back ratio of up to 25:1, screening out unwanted side and rear signals. 25 dual function elements work as 31 elements to capture more signal, even up in the mountains or down in the valley. Preassembled all-aluminum construction, aluminum dowel reinforced elements, one inch square boom, one inch tubular boom brace, double U-bolt, solid aluminum busbar harness. Wt. 9 lbs. Less mast and 300 ohm lead. Mfg. list \$49.50.

**SINGLE BAY Model VXIII. \$29.10** 6 Lots, **\$26.19** Each.  
No. 9A68. Net Each.  
**TWO BAY STACKING KIT ONLY.** Couples 2 bays for utmost gain.  
No. 9A98. Model J169. Wt. 2 lbs. Net Each. **\$1.03**

## HI-FI SUPER BANSHEE MODEL BS350



- For up to 110 miles.
- 27 working elements.
- Super-sensitive—broadband Yagi design.

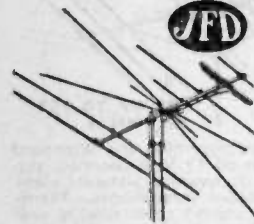
A superior antenna for all VHF channels. Loaded with outstanding electrical and mechanical features. Has precision spaced elements and shorter, stronger low-band directors that operate without "shadowing" other elements. All-aluminum, pre-assembled, built to last. Less mast and 300 ohm lead. Shpg. wt. 9 lbs. Mfg. list \$28.80.

MFG. LIST \$28.80  
**\$16<sup>93</sup>**



No. 9A52. Single Bay. Model BS350. Net **\$16<sup>93</sup>** 6 Lots, **\$15<sup>55</sup>** Each.

## FAMOUS ORIGINAL "SUPER-JET"



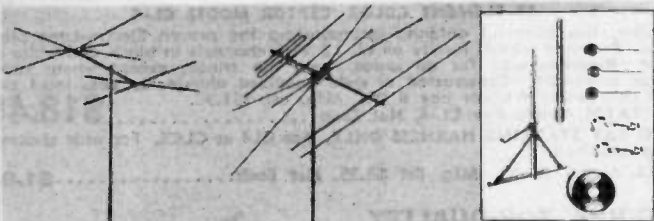
MFG. LIST \$13.90  
NOW ONLY **\$8<sup>17</sup>**



- 50 to 75 miles.
- Excellent for suburban and outlying areas
- Finest Construction.

Still one of the most popular antennas made! Has fine directivity needed for ghost-free pictures. All-aluminum, quick-ohm design. Wt. 8 lbs. Less mast and 300 ohm lead. Mfg. list \$13.90.  
Single Bay Model JET-213  
No. 9A90. Net Each. **\$8.17** 6 Lots, **\$7.35** Each.

## HIGH QUALITY TV ANTENNA OUTFITS KITS INCLUDE MOUNT, WIRE, & HARDWARE FOR QUICK, EASY INSTALLATION—NOTHING ELSE TO BUY FOR ALL CHANNELS 2-13—BLACK AND WHITE OR COLOR



**ZIP CONICAL**  
UP TO 30 MILES

**PIP-JET**  
50 TO 75 MILES

**INSTALLATION KIT**  
Includes 300 Ohm Lead

**JFD ZIP-CONICAL KIT—FOR UP TO 30 MILES**  
Most popular of all antenna types for urban and suburban locations. Preassembled, quality-engineered all-aluminum construction. Requires no tools—antenna elements remain permanently locked in positive alignment merely by moving them into position by hand. Installation kit includes 5 ft. all-aluminum universal mount for roof, peak or side mount; positively the quickest, simplest and best mounting yet devised. Additional 5 ft. aluminum mast included. Antenna can be 10 ft. high, in the clear for maximum performance. Includes also 50 ft. of high quality 300 ohm twin lead, and 5 stand-off insulators. Shpg. wt. 8 lbs. No. 9A55. Complete Kit Packaged for Mailing. **\$6.99** Special Each.

**JFD PIP-JET KIT—FOR 50 TO 75 MILES**  
Top-Quality all aluminum. An excellent performing antenna with the extra advantage of greater signal pickup, 6 to 8 db gain on low channels, 7 to 11 db on high channels, plus good directivity for reducing ghosts. Comes preassembled ready to snap into position. Installation kit is same as described above. Shpg. wt. 12 lbs. No. 9A56. Complete Kit. Special Each. **\$10.73**

## HI-FI POWER HELIX MODEL PX911

- Up to 125 miles.
- 26 elements.

HAS ALL FEATURES FOR FINEST BLACK & WHITE OR COLOR RECEPTION.

Extremely high front-to-back ratio; up to 28 db—minimizes co-channel and adjacent-channel interference. Narrow beam width—reduces picture smearing.



MFG. LIST \$36.95  
**\$21<sup>73</sup>**



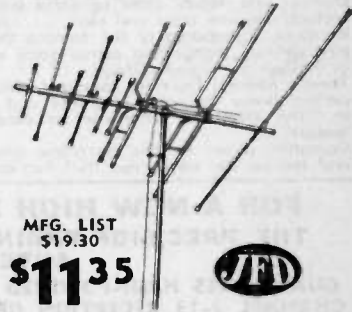
### RECEIVES ALL CHANNELS 2-13

Gives photo-sharp, steady reception for almost any fringe location. Has fine balance and light weight needed for rotor installations. Unique twin-driven collector system provides close 300 ohm impedance match. Competely pre-assembled, flip-open construction. Highest quality. Made entirely of Alcoa aluminum with super strong square boom and double mast clamp. Less mast and 300 ohm lead. Shpg. wt. per bay 10 lbs. Mfg. list \$36.95.  
**Model PX911. Single Bay. \$21.73** 6 Lots, **\$19.56** Each.  
No. 9A78. Net Each.  
**TWO BAY STACKING KIT ONLY.** Joins 2 bays for 3 db added gain.  
No. 9A67. Model J170. Wt. 2 lbs. Net Each. **\$2.35**

## HI-FI BANSHEE MODEL B350

- For 65 to 75 miles.
- 17 working elements.
- Yagi super strength and signal power.

Finest antenna for the money! Gives sparkling picture quality on black and white or color, all channels 2 to 13. Ruggedized all-aluminum construction, 100 per cent pre-assembled to go up in minutes. Can be mounted in the attic, too. Less mast and 300 ohm lead. Shpg. wt. 7 lbs. Mfg. list \$19.30.



MFG. LIST \$19.30  
**\$11<sup>35</sup>**



No. 9A51. Single Bay. Model B350. Net **\$11<sup>35</sup>** 6 Lots, **\$10<sup>42</sup>** Each.

## HIGH QUALITY "RABBIT EAR" ANTENNAS

Model TA141 **\$1<sup>24</sup>** Each  
Regular \$7.95  
Mfg. List Value 25 Lots

New 4 section dipoles, only 13" high, 38" extended. Looks neater, easier to use—plus the JFD ratchet-swivel design for quick, sure positioning of the dipoles.

Smartly styled, compact, tip-proof base enhances beauty of any television cabinet, period or modern. Complete with 300 ohm lead. Wt. 2 lbs.

① Standard Channel 2-13 "Rabbit Ear". 38B118. **\$1.59** 10 Lots, **\$1.43** Each. 25 Lots, Each **\$1.24**

② Switch Type All-Channel "Rabbit Ear" with new "4 section" dipoles like above. Has unique 6-position electronic phasing switch to match set impedance and electrically adjust antenna for maximum signal. Helps tune out ghosts. Covers VHF and UHF channels 2 to 83. Mfg. List \$9.95. No. 38B117. Model TA147. 10 Lots, **\$2.53** Special Each.

③ "PERISCOPE" REAR-OF-SET ANTENNA  
Ball socket, 5 section 37" telescoping dipoles pivot in any direction, drop out of sight in a wink when not in use. Length closed 7 3/4". Plastic protective housing mounts on rear of most any set. Exact replacement for Admiral, Dumont and Westinghouse except for models listed below. Shpg. wt. 2 lbs. Mfg. list \$4.95. No. 38C110. Type TA155. **\$2.91** Net Each.

④ "TUK-A-TENNA" Folds down when not in use. Easily installed on rear of most any set. Nickel plated 4-section brass dipoles 38 1/2" extended, 12" closed. Also exact replacement for Dumont, Emerson, GE, Hotpoint, Olympic, Sentinel, Sylvania and Trav-ler except for models listed below. Wt. 2 lbs. Mfg. list \$3.95. No. 38C111. Type TA442. **\$2.32** Net Each.

**REPLACEMENT ANTENNAS FOR PORTABLE SETS EXACT DUPLICATES OF ORIGINAL EQUIPMENT**

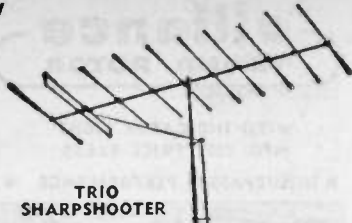
⑤ "TUK-A-TENNA" Folds down when not in use. Easily installed on rear of most any set. Nickel plated 4-section brass dipoles 38 1/2" extended, 12" closed. Also exact replacement for Dumont, Emerson, GE, Hotpoint, Olympic, Sentinel, Sylvania and Trav-ler except for models listed below. Wt. 2 lbs. Mfg. list \$3.95. No. 38C111. Type TA442. **\$2.32** Net Each.

**ANTENNAS FOR OTHER PORTABLE TV SETS**  
Most types are available for immediate shipment ranging from approximately \$3.00 to \$6.00 cost. Order by specifying Make and Model of TV Set and Part Number of Original Antenna and Group Stock No. 38A47. JFD EXACT REPLACEMENT ANTENNA GUIDE No. 25A234. FREE ON REQUEST

# Television And FM Antennas

## 10 ELEMENT VHF TV CUT-TO-CHANNEL YAGI ANTENNAS

AS LOW AS **\$4.77**  
GREATEST RANGE SINGLE CHANNEL TYPE



TRIO SHARPSHOOTER

The least expensive antenna for areas requiring extreme performance on a single channel. Proven Yagi design gives lowest response at sides and rear and greatest forward gain of any type antenna. Automatic hardware and factory pre-assembly saves installation time—provides extreme strength for "tough" locations. Boom braces included, for channels 2 thru 6. Folded ratia type dipole collector element matches 300 ohm line. Supplied less mast and lead. Approx. shpg. wts. Ch. 2 through 6, 10 lb.; Ch. 7 through 13, 6 lbs.

Stk. No.	Channel	Net Each	6 Lts., Ea.	Stk. No.	Channel	Net Each	6 Lts., Ea.
7A102	2	\$12.31	\$11.30	7A108	8	4.77	4.43
7A103	3	11.89	10.92	7A109	9	4.77	4.43
7A104	4	11.45	10.51	7A110	10	4.77	4.43
7A105	5	11.02	10.13	7A111	11	4.77	4.43
7A106	6	10.16	9.34	7A112	12	4.77	4.43
7A107	7	4.77	4.43	7A113	13	4.77	4.43

### STACKING KITS FOR 10 ELEMENT YAGIS

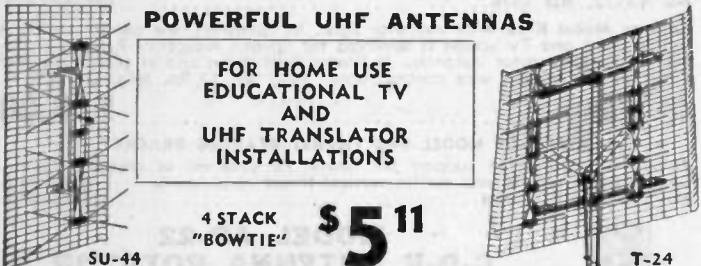
Gives still greater signal by combining two Yagi bays for same channel for with a single lead. Specify desired channel when ordering. Shpg. wt. approx. 2 lbs.

No. 7A78. For Low Channels 2-6. Each	\$1.18	6 Lots, Each	\$1.06
No. 7A77. For High Channels 7-13. Net Each	49c	6 Lots, Each	44c

## POWERFUL UHF ANTENNAS

FOR HOME USE EDUCATIONAL TV AND UHF TRANSLATOR INSTALLATIONS

4 STACK "BOWTIE" **\$5.11**



### TRIO SU-44 4-BAY ALL CHANNEL UHF ANTENNA

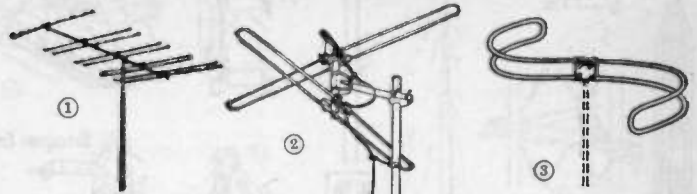
Rugged, greatly improved 4-stock "Bow-tie" with the wide vertical expanse so necessary for dependable reception on all UHF channels. Rated by independent, unsolicited test as the highest gain UHF type on the market. Features quick assembly (no loose hardware), sturdy, hot-dipped galvanized reflector screen and mycostyrene insulators. Less mast and 300 ohm lead. No. 7A100. Mfg. list \$8.69. Wt. 10 lbs. "Sharpshooter" Model SU-44. Net Each **\$5.11** 6 Lots, Each **\$4.69**

### UHF TRANSLATOR ANTENNA

Specifically designed for extremely high gain on UHF Translator channels 64 through 83. Actually a 24 element curtain array with close spaced screen reflector to give highest gain on upper frequencies. Aluminum and hot-dipped galvanized steel construction. Fully assembled—no loose hardware. Less mast and 300 ohm lead. Wt. 11 lbs. No. 7A99. Mfg. list \$22.95. Translator Model T24. Net Each **\$13.49** 6 Lots, Each **\$12.40**

## FINEST FM ANTENNAS, 88-108 MC

FOR IMPROVED RECEPTION—GREATER RANGE GOLD ANODIZED—ALL ALUMINUM



### WINEGARD HIGH POWER FM YAGI

High gain, 8-element, wide spaced. Gives 10.2 db gain across entire FM band. None finer. Sharply directional. Must be rotated to receive signals more than 80° apart. Stacking increases gain additional 2.7 db. Length 94" width 66". Completely gold anodized. Less mast and 300 ohm lead. Wt. 7 lbs. No. 7A98. Model FMY8. Single Bay. Mfg. list \$23.65. Each **\$13.90**

### WINEGARD TURNSTILE ALL-DIRECTION TYPE

Gives excellent results across entire FM band with equal high pickup in all directions. Unique sidearm fixture makes installation on existing TV mast fast and simple. Also provides excellent means for stacking to increase power. Up to 4 bays can be used when separated 49 inches and interconnected with 300 ohm lead. Wt 5 lbs. Less mast and lead. Mfg. list \$12.55. No. 7A96. Model FM3T. Single Bay. Net Each **\$7.38**

### TACO FM "LARK" ANTENNA

Finest all-direction pickup. Very popular in city locations. May be added to existing TV installation or mounted separately, even in the attic. Wt. 2 lbs. Less mast and 300 ohm lead. Mfg. list \$6.95. No. 9A94. Model G626A. Net Each **\$3.95**

## WINEGARD SUPER POWERFUL FM ANTENNA

WITH TRANSISTORIZED ELECTRONIC INTENSIFIER FINEST FOR LONG DISTANCE FM AND MULTIPLEX

Opens a vast new range of FM reception in all areas normally a little too far out to receive city FM stations. Enables you to reach from city to city for more stations, greater program selection. Offsets the power loss of transmitter carrier and sub-carrier on multiplex systems. All-aluminum, gold anodized, fully weather proofed. Less mast and lead-in. Mfg. list \$49.95. Wt. 10 lbs.

For 300 Ohm Lead  
No. 7A94. Model PF8  
For 75 Ohm Coax Lead  
No. 7A95. Model PF8C  
Choice  
Each **\$29.37**

### ROOF-TOP INSTALLATION KIT COMPLETES ANY TV-FM ANTENNA

Contains lead-in, insulators, mast and support. Eliminates chore of selecting the right installation "hardware" and greatly short-cuts work on the roof. Aluminum 5 ft. mast with two adjustable side braces forms rigid "quick-rig" tripod for any angle, peak or flat roof. With weather-tight drive fasteners, 50 ft. 300 ohm lead and insulators. No. 9A91. Toco Model K797. Net Each **\$4.08**

## SPICO "GOLDEN LINE" BEST PERFORMING INDOOR TV ANTENNAS

### ① TENNA-SCOPE INDOOR ANTENNA

All "round superior construction makes this standard "rabbit ear" a much better performer than the ordinary type. Has the same high quality all brass telescoping elements as the more expensive Spico Golden Antennas, plus positive positioning, smooth octlon, bakelite ball base to insulate and hold elements exactly where wanted. Elements extend from 17 1/2 to 41". Base and ball are mahogany brown. Base has gold finished top to match elements. With 300 ohm connecting lead. Shpg. wt. 2 lbs. No. 38A27. Model B5G. Mfg. list \$7.95. Net Each **\$1.89**

### ② DELUXE GOLDEN "SUPER-SIX" WITH EXCLUSIVE "ELECTRONIC" TUNING

Thousands of satisfied users can't be wrong. The only indoor TV antenna made with these exclusive U. S. Patented features... tunable impedance matching device that gives clear, sharp pictures on each individual channel... "adjustaknob" at base for microfine adjustment... no gimmicks, truly an electronic achievement. Recommended for all areas, even the tough ones, where the usual type indoor antenna fails to give satisfactory pictures. Equipped with carefully assembled 3 section brass elements extending to full 41" when needed. Has deluxe gold finished padded base and 300 ohm lead. Shpg. wt. 2lbs. No. 38A26. Model S6GB. Mfg. list \$12.95. Net Each **\$5.85**

### ③ "STRAT-O-MATIC" WITH PRECISION "ON-THE-BEAM" DIALING A TOP SELLER ALL OVER THE COUNTRY

Will out-perform most other indoor antennas because of full length 41" telescoping brass dipoles that won't sag, slip or jam. Superior fit of element sections provides positive contact for steady unblemished pictures. Heavy tilt-proof base contains 6 step selector for automatic electronic positioning. Makes antenna easy to "tune", reduces ghosts and picture smear. Tough low-loss bakelite insulator assembly holds elements exactly where you want them. Beautifully gold finished with neatly styled brown wrinkle finished, felt-padded, tip proof base and 300 ohm lead. Shpg. wt. 2 lbs. No. 38A25. Model S7G. Mfg. list \$10.95. Net Each **\$3.96**

### TUNE VHF-UHF, BLACK & WHITE OR COLOR... FM TOO!

Beautifully Styled • Engineered to Last • Guaranteed to Satisfy

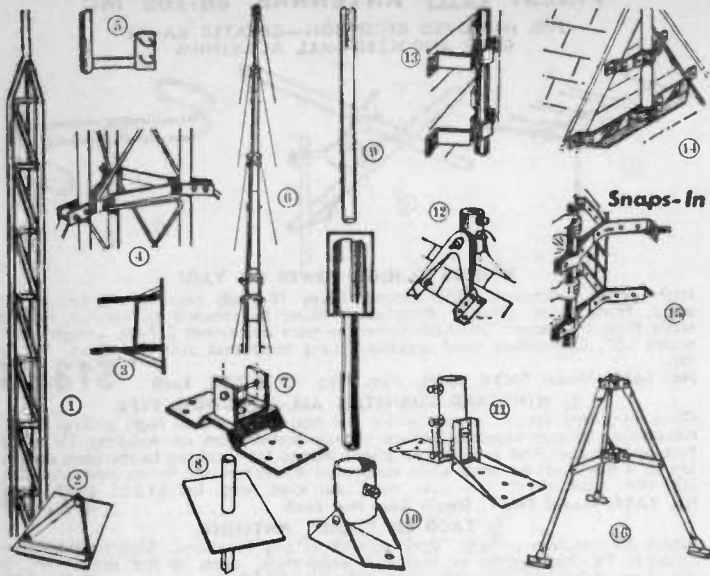


PRECISION ON-THE-BEAM DIALING



# Antenna Towers, Masts and Rotators

## ANTENNA TOWERS, MASTS AND MOUNTS



### HIGHEST QUALITY—LONG LASTING—NON-RUSTING

- ① GALVANIZED 12" TRIANGULAR TOWER SECTIONS  
Will stand 40 ft. above house bracket without guys, 280 ft. max. when guyed. Hot-dipped galvanized seamless 1 1/4" heavy wall uprights, precision welded zig-zag braces, double bolted joints.
- No. 6A47. 10 Ft. Straight Section. Rohn 25G. 40 lbs. Net Each. **\$18.25**
  - No. 6A48. 9 Ft. Top Section for 1 1/4" Mast. 31 lbs. Net Each. **\$19.00**
  - ② 6A56-2 Ground Base & 4 Ft. Drive Rods. 18 lbs. Per Set. **\$10.45**
  - ③ 6A53. House Bracket, 15" to 24". Rohn HB25BG. 10 lbs. Net Ea. **\$5.00**
  - ④ 6A57. Guy Bracket, Torque Bars. 9 lbs. Set. **\$7.65**
  - ⑤ 6A51. Rotor Post. Mounts inside tower. 3 lbs. Net Each. **\$1.70**

### ROHN GALVANIZED TELESCOPING MASTS

Heavy 17 gauge. Has most broke for simpler installations. Sections 10' long hot-dipped galvanized inside and out. With guy rings.

Stk. No.	Height	Tubing Size	Wt. Lbs.	Net Ea.	6 Lts., Ea.
6A90	20 Ft.	1 1/2" to 1 1/4"	15	\$5.10	\$4.80
6A89	30 Ft.	1 3/4" to 1 1/4"	24	7.95	7.40
6A88	40 Ft.	2" to 1 1/4"	34	11.17	10.40
6A91	50 Ft.	2 1/4" to 1 1/4"	48	15.30	14.25

- ⑦ 4A114. Universal Base. All-angle, rotatable. 2 lbs. Net Each. **63c**
- ⑧ 4A184. Ground Mount. Handy drive-in type. 3 1/2 lbs. Net Each. **\$1.35**

### STEEL AND ALUMINUM MASTS—self coupling, stacking.

- 6A114. 10 ft. x 1 1/4". Hot-dip galv. steel. 7 lbs. Ea. \$2.06 10 @ Ea. **\$1.86**
- 6A106. 5 ft. x 1 1/4" Aluminum 1 lb Ea. .88 10 @ Ea. **.79**
- 6A107. 10 ft. x 1 1/4". Aluminum. 2 lbs. Ea. 1.67 10 @ Ea. **1.50**
- ⑨ 4A126. All-Angle Base. Galv. steel. 1 1/2 lbs. Ea. .42 12 @ Ea. **.38**
- ⑩ 4A124. Univ. Roof Mount. Galv. steel. 1 1/2 lbs. Ea. .82 12 @ Ea. **.74**

### NO-GUY ROOF MOUNT. Handles up to 5 ft. mast.

- 4A158. Weatherproof steel. 4 lbs. Ea. **\$3.13** 10 @ Ea. **\$2.88**

### CLOSE WALL MOUNT. 4" clearance. Mounts masts to 1 3/4" dia.

- 4A156. Telco 9241. Zinc plated steel. 1 lb. Per Pr. **\$0.65** 10 Pr. Ea. **\$0.59**

### HOUSE PEAK MOUNT. 30" long. For masts to 1 3/4" dia.

- 4A140. Telco 8625. Zinc plated steel. 4 lbs. Per Pr. **\$3.06** 10 Pr. Ea. **\$2.81**

### STAINLESS STEEL STRAP CHIMNEY MOUNT. 12" long straps.

- 4A160. Telco 8930. 4 lbs. Per Pr. **\$3.09** 10 Pr. Ea. **\$2.84**

### ROHN TRIANGULAR ROOF MOUNTS

- Hot dipped galvanized tubular steel. Takes masts to 1 3/4".
- No. 6A62. 3 Ft. Type TRT36. Wt. 8 lbs. Net Each. **\$4.15**
- No. 6A63. 5 Ft. Type TRT60. Wt. 11 lbs. Net Each. **\$6.35**
- No. 6A64. 10 Ft. Type TRT120. Wt. 22 lbs. Net Each. **\$12.65**

## GUYING ACCESSORIES



- ① No. 18B145. 1/8" GUY WIRE CLAMP. Each **18c**, 10 For **\$1.50**
- ② No. 18C164. 3/8" GUY WIRE CLAMP. Each **18c**, 10 For **1.50**
- ③ No. 18A384. 4" x 3/8" TURNBUCKLE. Each **14c**, 10 For **1.28**
- ④ No. 18A386. 5 1/2" x 1/4" TURNBUCKLE. Each **18c**, 10 For **1.69**
- ⑤ No. 19B1020. 7 1/2" x 3/8" TURNBUCKLE. Each **46c**, 10 For **3.98**
- ⑥ No. 19A644. GUY WIRE THIMBLE. Each **4c**, 10 For **.30**
- ⑦ No. 19B986. 1 1/4" MAST GUY CLAMP. Each **19c**, 10 For **1.80**
- ⑧ No. 18A692. Leak-Proof Guy Anchor. Each **24c**, 10 For **2.16**
- ⑨ No. 18B146. Screw Eye Guy Anchor. Each **5c**, 10 For **.45**
- ⑩ No. 18A59. 1 1/2" Strain Insulator. Each **8c**, 10 For **.70**
- ⑪ No. 18A60. Heavy Strain Insulator. Each **24c**, 10 For **1.99**

### 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.
2A205	1500 lbs.	4" Plate, 1/2" Dia. Rod.	6 lbs.	\$2.60	\$2.36
2A206	2500 lbs.	6" Plate, 3/4" Dia. Rod.	8 lbs.	3.12	2.84

## alliance TENNA · ROTOR

FOR TELEVISION OR LIGHTWEIGHT AMATEUR BEAMS

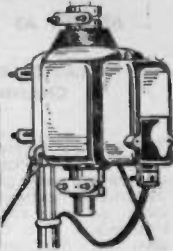
WITH INDICATOR LIGHT  
MFG. LIST PRICE \$24.95

**\$1808**

● UNSURPASSED PERFORMANCE ● SUPERB STYLING



CHOICE OF THREE TYPES OF CONTROLS



Rotator. Swings antenna either direction through a full 360° in 30 seconds. Stops where desired. Magnetic brake prevents drifting. Has automatic stop at end of rotation, permanent lubrication and strong, weather-tight die-cast metal housing. Masts up to 1 3/8" dia. slip through rotor; are held by clamps. Optional TBB bearing takes stress off rotor where needed. Size 7 3/4" x 5 1/2" x 8" H. Control boxes operate on 115 V, 60 cycle AC.

Alliance New Model T-12 with Improved constant reading, meter type direction indicator. Rotor stops when control bar switch is released. Requires 4 wire control cable. Shpg. wt. 12 lbs. Mfg. List \$34.95. **\$22.12**  
No. 4A171. Net Each.

Alliance Model U-98 with new improved automatic direction control. To operate, pointer on control is set of desired direction; rotor then turns and stops automatically at exact point selected. Maintains perfect synchronization between control and antenna. Requires 4 wire control cable. Shpg. wt. 12 lbs. Mfg. List \$44.95. **\$25.77**  
No. 4A172. Net Each.

Alliance Model K-22 with indicator light. In operation, the control switch is turned "on" and TV screen is observed for "peak" reception. Releasing control switch stops rotor instantly. Indicator light shows end of travel in either direction. Requires 4 wire control cable. Shpg. wt. 12 lbs. Mfg. List \$24.95. **\$18.08**  
No. 4A173. NET EACH.

### ALLIANCE MODEL TBB THRUST BEARING BRACKET

A ball thrust bearing support for heavy TV antenna or amateur beams. Clamps below rotator and carries vertical thrust of antenna. **\$2.91**  
No. 4A164. NET EACH.

## MODEL AR-22 C-D-R ANTENNA ROTATOR FOR TV AND AMATEUR BEAMS

MFG. LIST \$45.95

**\$31.31**

HEAVY-DUTY MODEL For In-Line Mast, Tower or Platform Mount

With Automatic Control

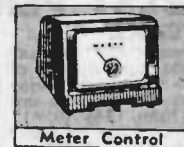
### HEAVY DUTY ROTOR UNIT



First choice of thousands! Rotates full 375 degrees 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 antennas... no additional bearing support needed. Clamps take 7/8" to 2" diameter masts. Mounts also on flat surface when lower most support is removed. Mechanism has oilite and ball bearings, lifetime lubrication.

With Automatic Control. The very easiest to operate. Knob is set on desired compass point; rotator then turns and stops automatically at the precise point selected. Dial is lighted while rotor is operating. Unit shuts off completely when antenna reaches position. Control box is molded walnut brown plastic with non-scratch rubber feet. Operates on 115 V, 60 cy. AC. Shpg. wt. 15 lbs. Requires 4-wire control cable. **\$31.31**  
No. 4A185. C-D-R Model AR-22. Mfg. list \$45.95. Net Each.



### STRANDED GALVANIZED STEEL GUY WIRE



Highest quality, full gauge steel wire, heavily galvanized to prevent rust and corrosion. Specially coiled to minimize kinking and tangling. Approximate breaking strength: 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.

### GUY WIRE ON SPOOLS

Stk. No.	Description	Length	Spool	50-Ft. Connected Coils
2B147	4 strands No. 20	1000'	\$5.00	Stk. No. Description Coil 10 Coils
2B148	6 strands No. 20	1000'	6.40	3895 4 strands No. 20 33c \$3.00
2B149	6 strands No. 18	500'	5.20	3B103 6 strands No. 20 45c 4.10
				3B107 6 strands No. 18 60c 5.20

### AIRCRAFT CABLE FOR GUYING 1 x 19 GALVANIZED

Recommended for all crank-up and communications towers.

Stk. No.	Size	Strength	Wt. Per 100'	100 Ft. For
2A211	2 1/8"	2100 lbs.	3.5 lb.	\$5.55
2A212	1 3/8"	3300 lbs.	5.5 lb.	8.72
2A213	1 1/8"	4700 lbs.	7.7 lb.	8.94

# TV Wire, Installation Accessories

## TELCO TV LEAD-IN INSULATORS MADE WITH GENUINE POLYETHYLENE INSERTS

 <b>UNIVERSAL</b> For flat 300 ohm line, 1/4" or 1/2" open line and rotator leads. <b>TYPE A</b>	 <b>HOLLOW LINE</b> For UHF Tubular Line and Federal KIII.	<b>LOOSE INSERTS ONLY</b> Handy for Replacement. No. 19A637, Type A. No. 19A638, Type B. 10 For..... <b>22c</b> 100 For..... <b>\$1.75</b>
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**① WOOD SCREW TYPE**

Stock No.	Type	Insert	Length	Each	5 For	100 For
19A699	A	A	3 1/2"	\$0.04	\$0.14	\$2.64
19A698	A	A	7 1/2"	.07	.30	4.95
19A696	B	B	3 1/2"	.04	.14	2.64
19A695	B	B	7 1/2"	.07	.30	4.95

**② DRIVE-IN TYPE FOR WOOD**

Stk. No.	Type	Insert	Length	Each	5 For	100 For
19A693	A	A	3 1/2"	\$0.04	\$0.16	\$2.50

**③ STRAP-ON MAST TYPE**

Stock No.	Type	Insert	Length	Each	5 For	100 For
19A687	A	A	3 1/2"	\$0.11	\$0.42	\$7.29
19A686	B	B	7 1/2"	.13	.54	8.79

**7 1/2" DUAL INSULATORS**

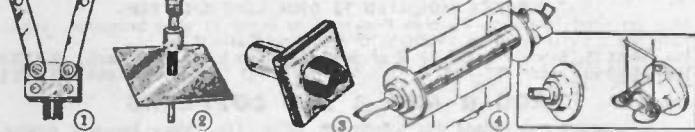
Stock No.	No.	Insert	Each	5 For
19A680	4	A	\$0.19	\$0.72
19A679	5	A	.25	.88

### SPRING TYPE ROTATOR STANDOFF INSULATOR



Will save its cost many times over by preventing premature line failure. Flexible spring enables antenna lead wire to follow rotator yet keeps lead suspended from any metal. Universal low-loss insert is snap-in type. Pipe strap mtg. Overall length 13".  
**No. 19B317. Net Each..... 47c**

### MOSLEY TV LEAD-IN INSULATORS



- ① "Y-TY" LEAD-IN CONNECTOR FOR ANTENNAS.** Prevents broken leads caused by wind and swaying lines. Makes installations neater, easier. Works with any type line. Connecting strips fan out to fit antenna terminals.  
**18B1009, Type 263-S.** For terminals spaced up to 4 inches. **Net Eo..... 41c**  
**18B1010, Type 263-L.** For terminals spaced up to 6 inches. **Net Eo..... 41c**
- ② WEATHER-PROOF "ROOF-THRU" LEAD ENTRANCE.** Low loss polystyrene feed-through bushing combined with 8"x9" copper flashing. Easily installed. For lead-in or rotor control cable. Permits shorter lead-in, less pickup of interference, hides lead-in wires.  
**No. 18B1006, Type 624.** For Flat Lead-in. **Net Each..... \$3.80**  
**No. 18B1008, Type 623.** For Tubular or Oval Lead. **Net Each..... \$3.80**
- ③ 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. Specify ivory or brown.  
**No. 18B1011, Type 626.** For all types of lead. **Net Each..... 82c**
- ④ 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. 18B1054, Type 625.** Specify Ivory or Brown. **NET EACH..... \$1.27**

### LEAD-IN AND ROTATOR CABLE CONNECTORS PLEASE TURN PAGE FOR TV WALL PLATES

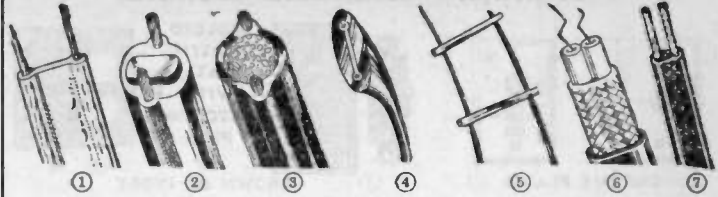


Stock No.	Mosley No.	Description	Net Eo.	10 For
① 18B725	301	Line Plug—Mates with Fig. 2 Socket	\$0.20	\$1.80
② 18A1155	311	Line Socket—Mates with Fig. 1 Plug	.20	1.80
③ 18A1156	304	Terminal Adapter—Mates with Fig. 2	.20	1.80
<b>④ UNIVERSAL 300 OHM LINE SOCKET.</b> Female type, mates with Fig. 1 plug above. Line can enter from sides, back or pass straight through for multiple outlets. Molded low-loss polystyrene. Mosley type 343.				
No. 18A1158.	Brown Socket	CHOICE	50,	45c
No. 18A1159.	Ivory Socket	EACH	Each	
<b>⑤ BASE SOCKET AND CABLE PLUG COMBINATION</b>				
<b>No. 18B1014, Type 354-PK.</b> 4 Wire Base Socket and Plug. <b>Net..... \$1.37</b>				

### LINE SPLICERS

- ① 18A1157, Mosley 275.** Joins 300 ohm lead. Solderless set-screw type. **Each..... 12c**
- ② 18B1032, Mosley 29-S.** Joins tubular to flat 300 ohm lead. **Each..... 14c**

## UHF-VHF TELEVISION TWIN LEADS



**① AMPHENOL FLAT 300 OHM TWIN LEAD, 214-056.** Highest quality 60 mil brown polyethylene, 7/28 copper conductors. 18 lbs. per M'.  
**No. 2A157. Per Ft. .... 3c** 100 Ft. For... **\$2.22** 1000 Ft. For... **\$18.01**

**② BELDEN WELDOHM FLAT 300 OHM TWIN LEAD, 8230.** Has 1 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. Per Ft. 50 Ft. 75 Ft. 100 Ft. 1000 Ft.**  
**2B143..... 4c \$1.23 \$1.70 \$2.13 \$19.20**

**③ AMPHENOL TUBULAR 300 OHM LEAD, 214-271.** For installations requiring long leads, VHF or UHF. Rain, snow, ice have no effect. Brown poly. Insulated, 7/28 copper conductors. 35 lbs. per M'.  
**No. 2B163. Per Ft. .... 5c** 100 Ft. For... **\$3.51** 1000 Ft. For... **\$29.16**

**④ BELDEN CELLULINE 300 OHM LEAD, 8275.** 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 M'.  
**No. 2B156. Per Ft. .... 6c** 100 Ft. For... **\$4.28**

**⑤ NEW BELDEN "PERMOHM" 300 OHM LINE, 8285.** 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.

Stk. No.	50 Ft.	75 Ft.	100 Ft.	500 Ft.	1000 Ft.
2A141	\$2.79	\$4.20	\$5.40	\$25.50	\$51.00

### ⑥ LOW LOSS OPEN LEAD

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.

**1" OPEN LEAD—450 OHMS (Wt. 2 1/2 lbs. per 100 ft.)**  
**No. 4A106C. 100 Ft. Coill. \$3.33** **No. 4A106D. 500 Ft. Reel. \$15.16**

**⑦ FEDERAL SHIELDED LEAD K-111**  
 300 ohm shielded lead highly recommended in VHF areas where reception is hampered by noise, snow, or ghosts. Polyethylene insulated conductors, copper braid shield and vinylite jacket overall. Shpg. wt. 8 lbs. per C ft.  
**No. 2A194. PER FT. .... 14c** 100 Ft. .... **\$12.25**

**⑧ BELDEN RECEIVING AND TRANSMISSION CABLE**  
 For use at high frequencies. Highly efficient polyethylene plastic insulated cables. Bare copper, flexible stranding; conductors parallel.

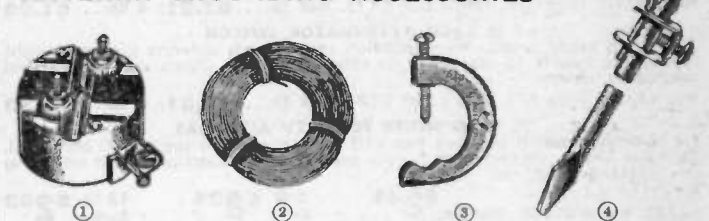
Belden No.	Type	Nom. AWG	Imp. Dia.	Imp. (Ohms)	Cop. Per Ft.	Per Ft.	100 Ft.
2B92	8222	20	.075x.128	72	20.3	2c	\$1.65

### BELDEN ANTENNA ROTATOR CABLE

Vinyl plastic weatherproof insulation. Flexible stranded #20 in four and five conductor and #22 in eight conductor give minimum voltage drop.

No.	Belden Type	Conductors	For	Ft.	100 Ft.
2B20	8464	4	Alliance, Radiort	4c	\$2.95
2B21	8485	5	Selsyn, etc.	5c	3.70
2B22	8488	8	Radiort, TR-2	6c	4.50

## 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, malded plastic with brass weather-resistant hardware. Shpg. wt. 12 oz.  
**No. 19B353. Net Each..... 85c** 10 Lots, Each..... **59c**

### ② NO. 8 ALUMINUM GROUND WIRE

Soft drawn. Recommended by National Electrical Code. Wt. 2 lbs. 100 ft.  
**No. 2B29. 50 Ft. Coill. .... 90c;** 100 Ft. .... **\$1.73**

### 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. 12A678. Mueller Type 58. Each. .... 20c;** 10 Lots, Each..... **14c**

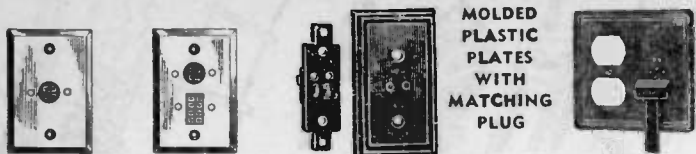
### ④ GROUND RODS

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.  
**No. 2A203. 3/8"x4". Each..... 83c;** 10 Lots, Each..... **58c**  
**No. 2A202. 3/8"x6". Each..... 87c;** 10 Lots, Each..... **79c**



# TV Antenna Accessories

## TV WALL PLATES AND SOCKETS



**① CHROME PLATES**  
**② CINCH-JONES CHROME PLATES**  
 Fit standard metal outlet boxes. Supplied with permanently installed Cinch-Jones sockets.  
**NET EACH**  
 1-49 50-99 100-249

**③ MOLDED PLASTIC PLATES WITH MATCHING PLUG**  
**④ BROWN OR IVORY**

**① FOR 300 OHM TWIN LEAD.**  
 16A614. (Requires P302FHT plug) ..... **\$1.38 \$1.15 \$0.92**

**② FOR 300 OHM LEAD & ROTATOR up to 4 wires.**  
 16A615. Requires P302FHT and P304FHT plugs..... **1.67 1.39 1.11**

**FOR 300 OHM LEAD AND ROTATOR up to 8 wires.**  
 16A616. Requires P302FHT and P308FHT plugs..... **2.05 1.71 1.37**

**JONES PLUGS FOR ABOVE**

16A617. Type P302FHT. 2 Cont..... **.34 .20 .22**  
 16A618. Type P304FHT. 4 Cont..... **.41 .34 .27**  
 16A619. Type P308FHT. 8 Cont..... **.53 .44 .35**

**③ MOSLEY WALL PLATE KITS**  
 Designed to fit standard electrical outlet boxes. May be installed without boxes using mounting brackets supplied. Outlet box not furnished. Avg. wt. 4 oz. For efficient permanent, professional looking installations.  
**For one 300 ohm lead. Supplied with molded plug.**  
 No. 18B842. Type F-1PK Brown or Ivory. Choice Net Each..... **\$1.21**

**For two 300 ohm leads. Often used for convenient selection of antennas. With molded plug.**  
 No. 18B833. Type F-11PK Brown or Ivory. Choice Net Each..... **\$1.66**

**For 4-wire Rotator and 300 ohm lead. With polarized 4-wire plug and 300 ohm line plug.**  
 No. 18B834. Type F-14PK Brown or Ivory. Choice Net Each..... **\$2.17**

**“ANTI-STUB” LINE SWITCHING WALL PLATE**  
 To be installed in each position except last of multiple outlet systems where outlets are wired parallel. When plug is inserted, 300 ohm line to next outlet is automatically disconnected preventing serious “ghosting” problems normally caused by pickup on unused line.  
 No. 18A900. Type FD-1PK. Brown or Ivory. Choice, Net Each..... **\$1.29**

**④ TV-AC COMBINATION PLATES**  
 Engineered to fit standard metal outlet boxes. Supplied with metal barrier to separate TV and AC leads. With safe polarized TV plug and instructions. For standard AC duplex receptacle.  
**For one 300 ohm lead.**  
 No. 18B837. Type AC-1PK Brown or Ivory. Choice Net Each..... **\$1.22**

**For 4-Wire Rotator and 300 ohm lead.**  
 No. 18B838. Type AC-14PK Brown or Ivory. Choice Net Each..... **\$2.15**

## TV ANTENNA SWITCHES AND MIXERS

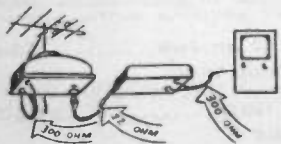


**① TACO 3-WAY SWITCH**  
 Accommodates up to three leads from separate antennas. Low-loss design. Does not disturb 300 ohm line impedance. Mounts flat with two screws.  
 No. 4A170. Type 873. Mfg's List \$3.75. Net Ea... **\$2.21**; 6 Ea... **\$1.99**

**② TACO ATTENUATOR SWITCH**  
 A must in many areas. Three position switch feeds antenna system straight through or inserts 15 db or 30 db attenuator pad. Clears up strong signal overload problems.  
 No. 4A169. Type 835. Mfg's List \$4.78. Net Ea... **\$2.81**; 6 Ea... **\$2.53**

**③ TACO MIXER FOR 2 TV ANTENNAS**  
 For a perfect match between two VHF antennas and a single 300 ohm lead. Contains self-supporting high Q coils and ceramic capacitors. Rigid mounting fits most up to 2" dia.  
 Mfg. List \$4.15  
 4A182. Model 852-2. Net Ea... **\$2.44**      6 @ **\$2.24**      12 @ **\$2.08**  
 Each      Each      Each

## TACO NOISE AND GHOST FREE COAX LEAD-IN SYSTEM

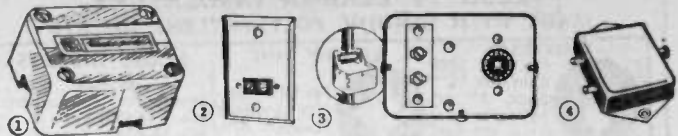


Eliminates problems of picture smear, ghosts, etc., caused by unwanted signal pickup on lead-in. Especially helpful in ghosty, strong signal areas or locations troubled by electrical noise from signs, etc. Uses type RG-59/U 72 ohm coax line in place of regular 300 ohm lead. Coax can be run close to any object without loss, eliminates line insulators. System consists of two couplers; Type 1597 installed at antenna and Type 1570 at TV set.

**Most Mounted Antenna Transformer Type 1597.** Appearance similar to coupler above. Matches 300 ohm antenna to 72 ohm coax line. Shpg. wt. 8 oz. Mfg. List \$5.10. **\$3.01**      6 @ **\$2.78**      12 @ **\$2.56**  
 No. 4A166. Net Each..... Each      Each

**TV Outlet Transformer Type 1570.** Matches 300 ohm receiver to 72 ohm coax line. Wt. 8 oz. Mfg. List \$3.35. **\$1.98**      6 @ **\$1.80**      12 @ **\$1.67**  
 No. 4A167. Net Each..... Each      Each

## TV-FM MULTIPLE SET COUPLERS



**① BLONDER-TONGUE “EXACT-MATCH” 2 AND 4 SET COUPLERS**  
 Used in home TV-FM systems. Divides TV or FM signal from 300 ohm antenna lead for operating 2 to 4 sets without interference between them. Sets may be tuned to same or different channels. Makes one permanently installed antenna serve entire home. Has separate pair of screw terminals for 300 ohm lead to each set. Tan plastic weatherproof case 2 7/8 x 2 1/4 x 1 1/8" H. Installs inside or out.  
 No. 4A107. For 2 Sets. Model A-102. Mfg. List \$3.50. Net Each..... **\$1.76**  
 No. 4A108. For 4 Sets. Model A-104. Mfg. List \$4.95. Net Each..... **\$2.45**  
 No. 4A109. Mast Mounting Kit A-100. Mfg. List \$1.10. Net Each..... **.65c**

**B-T SINGLE SET TAP-OFFS FOR MASTER TV-FM SYSTEMS**  
 For large home or commercial installations. Differ from above couplers in manner of wiring. Feed line supplying TV signal is continued on to next set in the system. One tap-off, connected across the line is required for each set. As many taps may be used as necessary providing signal voltage is adequate. Often used with booster amplifier or amplified power-type antenna. New no-strip terminals cut through standard 300 ohm insulation for fast installation. 75 ohm coax connectors are new solderless type.

**① TAP-OFFS IN SURFACE MOUNTED PLASTIC CASE**  
 300 ohms through feeder in, 300 ohms out. Isolated. Insertion loss 1.5 db isolation 12 db. Feed line continues on to other outlets.  
 No. 18A882. Model A-331-A. Mfg. list \$1.90. Net Each..... **\$1.13**

**75 ohms coax through feeder in, 300 ohms out. Isolated. Insertion loss 0.7 db. Isolation 17 db. Coax feeder continues on to other outlets.**  
 No. 18A884. Model TS-731B. Mfg. list \$4.30. Net Each..... **\$2.55**

**② TAP-OFF IN FLUSH PLATE FOR WALL OR OUTLET BOX**  
 75 ohms coax through feeder in, 300 ohms out. Isolated. Insertion loss 0.7 db. Isolation 17 db. Coax feeder continues on to other outlets.  
 No. 18A879. Model TF-731B. Mfg. list \$3.00. Net Each..... **\$1.76**

**75 OHM TO 300 OHM MATCHING TRANSFORMERS**  
 “Balun” type couplers for converting from balanced 300 ohm to coaxial 75 ohm circuits or vice versa. Will perfectly match an antenna or TV set to coaxial lead giving advantage of noise-free distribution of TV signal. Model MB is weatherproof for antenna mounting. Has SO-239 coaxial output. TS-731 and TF-731 are non-isolating transformer for use at TV set. Only one can be installed on each 75 ohm line branch (see line splitters below). Surface type is 2 7/8 x 2 1/4 x 1 1/8" H. Flush type mounts in wall or outlet box. Neutral tan finished.

**① 4A123. Antenna Transformer.** Model MB. Mfg. list \$10.00. Net Ea. **\$5.88**  
**② 18A883. Surface Set Trans.** Model TS-731. Mfg. list \$3.40. Net Ea. **\$2.01**  
**③ 18A880. Flush Set Trans.** Model TF-731. Mfg. list \$3.35. Net Ea. **\$1.96**

**① SURFACE MOUNTED 75 OHM LINE SPLITTERS**  
 May be used to divide 75 ohm line to 2 or more 75 ohm branches. Insertion loss 3.5 db. Isolation 14 db. With solderless fittings.  
 No. 18A885. Model TS-772. 2 Branches. Mfg. list \$5.20. Net Each. **\$3.04**  
 No. 18A890. Model TS-774. 4 Branches. Mfg. list \$7.50. Net Each. **\$4.41**

## TACO 2 AND 3 SET COUPLERS

Indoor for basement, attic, etc. Very low-loss design. Prevents interaction between sets.  
 No. 4A191. Taco 820-2.  
 Net Each... **\$1.80** 6 Each... **\$1.65** 12 Ea... **\$1.53**  
**3 Set Coupler.** Otherwise like Model 820-2 above.  
 No. 4A192. Taco 820-3.  
 Net Each... **\$2.02** 6 Each... **\$1.86** 12 Ea... **\$1.72**

## FILTERS FOR IMPROVED TV RECEPTION

CLEAR UP MOST PROBLEMS CAUSED BY UNWANTED SIGNALS

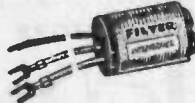
### DRAKE “HIGH PASS” TV FILTER



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 mc. Does not decrease TV signal itself.  
 29A86. Type TV-300-HP. Wt. 8 oz. Net Ea. **\$3.97**

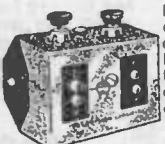
### TV “IGNITION INTERFERENCE” ELIMINATOR

INSTALLS AT THE TV SET



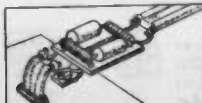
Very effective yet simple to connect... does not require removing or cutting the antenna lead.  
 Rejects streaks and “static” caused by ignition of motor cars, buses, etc. Size 1 1/2" L, 1 1/8" dia. Shpg. wt. 8 oz.  
 14B117. Superex. Model CPI. Net Each... **\$1.17**

### TUNABLE TELEVISION CLARIFIER



Highly popular and effective “TVI” filter for eliminating or greatly reducing lines, herringbone patterns, tears, wavy effects and other picture distortion when caused by FM, Police, Amateur and other short wave transmitters; diathermy, industrial equipment, ignition and adjacent TV channels. Does not reduce wanted signal. Can be installed and tuned for clearest picture by anyone. Full instructions included. In metal case, size 4x3 1/4 x 1 1/2".  
 29A243. Mfg. List \$7.50. Wt. 8 oz. Net Each... **\$4.41**

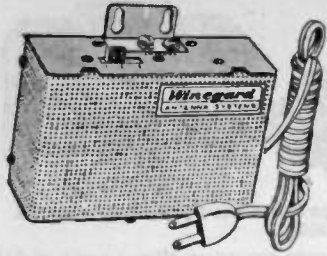
### LOW COST REGENCY TVI HI-PASS FILTER



Effectively suppresses most common television Interference. Carefully designed, small and simple to install right on the set. Requires no tuning and no maintenance. There is no loss of signal to the television set while interfering signals below 45 MC are bypassed.  
 No. 17B1143. Wt. 4 oz. Net Each..... **99c**

# TV Boosters, Master Systems, UHF Converters

## TRANSISTORIZED HOME TV/FM AMPLIFIER WINEGARD MODEL AT-6



"BOOSTER-PAK"  
ADDS MILES TO  
RECEPTION DISTANCE  
DRIVES 1 TO 7 SETS

Fine for black and white or color TV, also FM. Use it as a "single set" amplifier with any outdoor or indoor antenna. Very effective with rabbit ears, giving the signal gain of expensive outdoor antennas. Use it as a "home system" amplifier to drive up to 6 or 7 sets. Clears up snow, improves contrast, gives a flat gain of 16 db on channels 2 through 6 and FM, 14 db on channels 7 through 13. Employs new low noise high gain transistor with fully isolated transformer type AC power supply. Power drain 1.2 watts (would cost pennies a year to operate if left on continuously). Can be mounted anywhere in the home or on back of set. Input 300 ohms; output 300 or 75 ohms, for twin lead or coax. Three-position gain control switch. In ventilated enclosure, size 1 3/4 x 4 1/2 x 3" H. Shpg. wt. 2 lbs.

No. 4A153. Mfg. list \$34.95. Net Each ..... **\$20.97**

### SIX-SET COUPLER

Signal splitter for 300 ohm output direct to each TV set. See TV wall plates and other set couplers on page at left

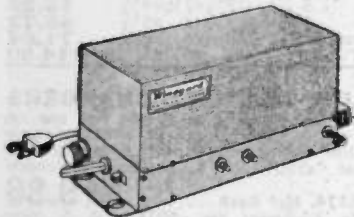
No. 4A154. Model LT-63. Mfg. list \$7.95. Net Each ..... **\$4.77**

See preceding page for 75 ohm coax line tap-offs. Up to seven sets can be accommodated using the through-feeder system where lead continues on to next set.

## TV-FM DISTRIBUTION AMPLIFIER WINEGARD MODEL A-400

FOR UP TO 30 SETS

- Up to 26 db gain.
- Flat response for all VHF TV and FM.



Economical, yet fully dependable. Capable of supplying finest TV or FM signal to a large number of sets. Frequency response  $\pm .25$  db on any 6 MC channel, system gain 26 db minimum. Input, 300 ohm balanced or 75 ohm coaxial. Output, two 75 ohm connectors for 2 trunk lines. Uses 4-6F5 tubes. Power consumption 28 watts, 115 V. 60 cy. AC. Perforated steel cabinet size 3 7/8 x 7 1/2 x 3 3/4" H. finished in blue baked enamel. Shpg. wt. 5 lbs.

No. 4A153. Mfg. list \$79.95. Net Each ..... **\$47.97**

## B-T MASTER SYSTEM TV AMPLIFIERS



DA8-B



MLA-b

### Model DA8-B Distribution Amplifier for 3 to 8 Sets

Provides eight isolated TV outlets from one 75 or 300 ohm input. Each outlet handles 75 or 300 ohm line and delivers 10 db gain on all VHF channels. Has variable gain control. Recommended for display rooms and commercial TV users of all types as well as large home. Professional hammercantone finished enclosure. 115 V. 60 cy. AC. Wt. 6 lbs.

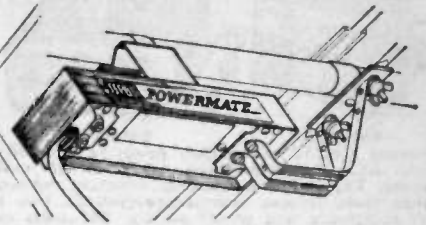
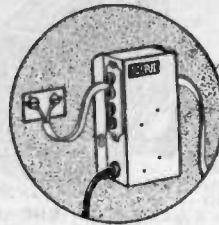
No. 4A190. Model DA8-B. Mfg. list \$94.50. Net Each ..... **\$57.33**

### Model MLA-b "Masterline" Distribution Amplifier

Most powerful broad band antenna or line amplifier for Master TV systems. Provides more than 40 db (100X) amplification on all VHF channels. Maximum output, 1.7 volts RMS on each band, flat within 1/2 db. across any 6 MC channel and within 1 db over either high or low bands. Has high and low band variable gain controls. Input and output, 75 ohms, through coax fittings. Circuit is improved cascade type using 7 tubes. In gray hammercantone screened, ventilated cabinet with slotted mtg. feet. Size 9 x 6 x 5" H. Operates on 110-120 V. 60 cy. AC. Draws 55 watts. Shpg. wt. 9 lbs.

No. 4A141. Model MLA-b. Mfg. list \$149.95. Net Each ..... **\$88.15**

## JERROLD TRANSISTORIZED "POWERMATE" ANTENNA MOUNTED PRE-AMPLIFIER



MAKES AN ELECTRONIC POWER SYSTEM OF ANY TV OR FM ANTENNA  
OUT PERFORMS ORDINARY BOOSTERS!

Transistorized all-channel pre-amplifier "sporks up" the signal tremendously—makes any TV or FM antenna do a better job over greater distance. Direct coupling to the antenna feeds only wanted signals into the amplifier, avoids boosting noise, ghosts, etc. normally picked up on the lead-in. Amplifier uses very latest transistor techniques for high gain, low noise and long trouble-free performance. In small, weather proofed aluminum housing for mounting right on the antenna, on mast or side of house.

AC operated power unit at TV set provides safe 15 V. AC power to operate preamplifier using same 300 ohm lead that carries the TV signal. Dual output feeds one or two TV sets or TV and FM, requiring no additional couplers. Power consumption 3 watts. Shpg. wt. 3 lbs.

No. 4A144. Model AM-101. Mfg. list \$39.95. Net Each ..... **\$26.63**

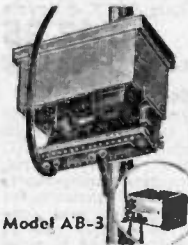
## JERROLD FMX POWERFUL FM RANGE EXTENDER FOR REGULAR MONAURAL OR MULTIPLEX RECEPTION

Makes even inexpensive FM tuners and receivers sound like "a million" by increasing the signal many times and eliminating unwanted background noise. Overcomes the power loss on FM multiplex stations. Often makes it possible to receive on simple indoor antennas where more expensive, more powerful outdoor type should be used.

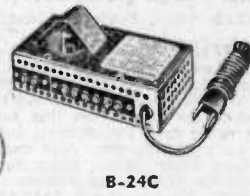
Incorporates 6DJ8 frame grid tube and printed circuitry. 300 ohms in and out. Gives 20 db gain and can feed several sets through 300 ohm multi-set couplers like on preceding page. In compact light alloy housing. Operates on 115 V. 60 cy. AC.

No. 4A146. Mfg. list \$29.95. Net Each ..... **\$18.95**

## BLONDER-TONGUE BROADBAND BOOSTERS



Model AB-3



B-24C

HIGH QUALITY  
TV/FM AMPLIFIERS  
FOR HOME OR  
COMMERCIAL USE  
VERY EASY TO  
INSTALL BY  
ANYONE

### MODEL AB-3 ANTENNA MOUNTED BOOSTER

- Delivers 22 db. gain.
- Can be remotely located up to 1 mile from AC source when using open wire lead.
- Gives best signal-to-noise ratio for fringe areas.

Remotely controlled amplifier in weatherproof housing for most mounting is designed for direct connection to 300 ohm antenna. Employs a dual triode 6DJ8 frame grid tube and 2-6EW6 tubes. Includes indoor control box with power supply to operate from 110-120 V. 60 cy. AC. Low voltage for operating amplifier is delivered by same line that carries the signal to the set. Turns on manually or automatically with TV set. Output is 75 ohms coax or 300 ohms balanced to feed one set or distribution line to several sets. See multiple set couplers and tap-offs on opposite page.

Outdoor unit measures 7 3/4 x 5 3/8 x 5 1/4". Power unit, 6 3/4 x 3 3/4 x 4 1/2". Shpg. wt. 9 lbs.

No. 4A143. Mfg. list \$104.95. Net Each ..... **\$63.21**

### MODEL B24C TV-FM BOOSTER & SET COUPLER HANDLES UP TO 4 SETS WITH NO SIGNAL LOSS

Automatic powered signal splitter for all channel VHF TV and FM. Delivers gain of 8 to 11 db for 1 set, 3.5 to 6 db for 2 sets, 2 to 4 db for 3 sets and up to 1 1/2 db for 4 sets. Vastly superior to non-powered couplers. Size 6 1/4 x 3 3/4 x 2 1/2". For 115 V. 60 cy. AC. Shpg. wt. 2 lbs.

No. 4A120. Mfg. list \$24.95. Net Each ..... **\$15.95**

## ALL CHANNEL UHF CONVERTERS

### ① BLONDER TONGUE BTC-99R CONVERTER

Makes any TV set a modern 82 channel UHF receiver. Provides good drift-free and distortion-free performance, easy installation at terminals of TV set and output on regular channels 5 and 6. Uses 6AF4A oscillator and crystal diode mixer. In handsome mahogany plastic cabinet 6 3/4 x 5 x 4 3/4" deep. For 117 V. 60 cycle AC. Shpg. wt. 4 lbs.

No. 4A134. Mfg. list \$23.95. Net Each ..... **\$16.75**

### ② BLONDER-TONGUE BTU-2S ULTRAVERTER

#### NEW POWERFUL ALL CHANNEL UHF CONVERTER

For sparkling picture quality and rich sound fidelity on all available UHF channels from 14 to 83. Uses new "frame-grid" low noise tube. Accepted as the very tops for the new "Translator" stations. Converts to VHF channel 5 or 6. In handsome plastic cabinet, 6 3/4 x 4 3/4 x 5" H.

No. 4A132. Wt. 5 lbs. Mfg. list \$39.95. Net Each ..... **\$28.00**



①



②



# Converters, Chargers, Power Supplies, Etc.

## ATR INVERTERS & POWER SUPPLIES



**RSF-RHG**  
Changes 6 or 12 volt battery power to 115 volt 60 cycle AC. For noise free operation of radios, phonos, TV, etc. Also operates dictating machines, power tools, mixers, emergency lighting. Has 110 volt receptacle and on-off switch. **RSF** units are 8 1/2 x 9 7/8 x 5 1/4". **RHG** size 6 7/8 x 11 1/4 x 8 1/2". Have clips for direct battery connection. **RME and RMF** are 8 3/8 x 8 x 8 3/4". Ideal for radio, TV, phono and dictating machines, both have cigarette lighter attachment. To select proper inverter choose one with wattage rating equal to or higher than device to be operated.

Stock No.	DC Volts Input	Output Intermittent	Wattage Continuous	Mfg. No.	Shpg. Wt.	Net Each
32C268	6	150	125	6URHG	27 lbs.	<b>65.02</b>
32C278	12	125	100	12URSF	22 lbs.	<b>49.00</b>
32C279	12	175	150	12URHG	27 lbs.	<b>65.02</b>
32C289	12	125	90	12TRME	12 lbs.	<b>32.34</b>
32C269	6 or 12	80	60	6CRMF	12 lbs.	<b>35.91</b>
<b>32C276 Cigarette Lighter Cord Set</b> ..... <b>\$2.63</b>						
<b>Model 610C-ELIF. DC Power Unit.</b> Operates from 110 V. AC line, supplies 6 volts at 10 or 12 volts at 6 amp continuous. Size 6 1/2 x 9 x 8 1/2". No. 32B254. Wt. 22 lbs. <b>\$48.95</b>						
<b>Net Each</b> ..... <b>\$65.61</b>						
<b>Model 620C-ELIT Heavy Duty Model.</b> Supplies 6 volts at 20 or 12 volts at 10 amp continuous. Size 6 1/2 x 12 3/8 x 8 1/2". No. 32A286. Wt. 33 lbs. <b>Net Each</b> ..... <b>\$65.61</b>						

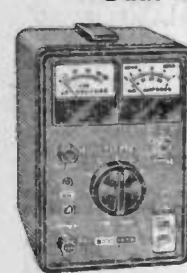
## NEW EICO POWER UNITS WIRED OR IN KIT FORM

### Model 1064 6-12 V. Power Supply & Battery 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 sets, 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. Gray cabinet size 8 1/2 x 5 3/4 x 7 1/2". Wt. 14 lbs. Use on 105-125 volts AC 50-60 cycle line. **\$43.95**  
No. 35A272. 1064K. Kit Each.....**\$52.95**  
No. 35A273. 1064. Factory Wired. Each.....**\$52.95**

### Dual Range Variable AC Bench Supplies



Choice of Two Dual Range Units. Model 1073, 0-1 and 0-3 amps. Model 1078 0-2 1/2 and 0-7 1/2 amps. Both provide continuously variable voltage from 0-140 AC volts. Ideal for production line testing, quality control, servicing radio and TV, finding intermittent components by over-voltage test, etc. Also useful to compensate for line voltage variations. Separate voltmeter and ammeter permits continuous monitoring of output voltage and current. Uses variable auto-transformer of toroidal core design, adjustable from front panel. Also has current range selector switch, off-on switch, AC receptacle and dual fuse holders on the front panel. Housed in compact grey cabinet 8 1/2 x 5 3/4 x 7". For use on 115-120 volt line.

**Model 1073 Kit.** Ranges 0-1 and 0-3 amps. Wt. 9 lbs. No. 35A268. **\$39.95**  
**Net Each**.....**\$47.95**  
**Model 1078 Kit.** Ranges 0-2 1/2 and 0-7 1/2 amps. No. 35A270. Wt. 13 lb. **Net Each**.....**\$42.95**  
**Net Each**.....**\$54.95**  
**Model 1078 Factory Wired and Tested.** **Net Each**.....**\$54.95**

### 6-12 V. DC POWER SUPPLY



Incorporates extra low-ripple filter circuit to supply dependable DC power for servicing and operating all 6 or 12 volt transistor radios, amplifiers, vibrator-tube sets and other equipment. Has variac-type voltage adjustment. Ranges (selected by 6-12 volt toggle switch), are 0-8 volts at 10 amp. continuous or 20 amp. intermittent and 0-16 volt at 6 amp. continuous, 10 amp intermittent. Two meters, 0-20 volts and 0-10/0-20 amperes permits constant monitoring of the output. Ruggedly constructed with fused primary and overload reset protection. Operates on 105-125 volts AC 60 cycles. Weight 19 lbs. Size 8 3/4 x 10 1/2 x 7 3/4".

**Model 1060 Complete Kit** **\$38.95** **Fact. Wired, Ready to Use** **\$47.95**  
No. 35A193. **Net Each**..... No. 35A194. **Net Each**.....

**Model 1050 6 & 12 VOLT BATTERY ELIMINATOR**  
Original model battery eliminator for servicing all types vacuum tube 6 and 12 volt equipment, where additional filtering of Model 1060, described above, is not required. All other electrical specifications are same as Model 1060.  
**Model 1050 Complete Kit** **\$29.95** **Fact. Wired, Ready to Use** **\$38.95**  
No. 35A191. **Net Each**..... No. 35A192. **Net Each**.....

### SECO TRANSISTOR BATTERY SUBSTITUTE



Model P52 supplies well filtered direct current for servicing and operating transistor radios, amplifiers and other equipment without the use of batteries. Plugs into 115 volt AC outlet. Has range of 0 to 15 volts at 100 mls. Cannot be damaged by short circuit. Size 4 1/2 x 5 x 1 1/2". Wt. 1 1/2 lbs. **\$13.67**  
No. 16B317. **Net Each**.....

## "TERADO" TRAV-ELECTRIC CONVERTERS

CHANGE BATTERY POWER TO 115 VOLTS, 60 CYCLES AC  
All units are fully guaranteed



Operating from 6 or 12 volt DC, the Terado converters offer a range of 115 volt 60 cycle power ranging from 25 to 300 watts. A convenient efficient means of operating radios, phonos, tape recorders, TV sets, shavers, small drills, emergency lighting, etc. Has cigarette lighter connector. **Electral**, small glove compartment size, operates tape recorder, radios, etc. Has cigarette lighter connector. **Senior**, time proven, reliable, small in size. Has cigarette lighter connector. **Chief**, operates dictating machines, power tools, etc., has toggle switch output control, convenient mounting. Connects direct to battery. **Supreme**, up to 200 watts AC power, has remote control with variable output switch and indicator light. Connects direct to battery. **New Continental Model 50191 Transistorized 300 Watt continuous duty.** Uses transistors for more efficient, quieter operation. Produces good wave form, will hold cycle for operating tape recorder, phonograph and other motor type appliances as well as TV sets, power tools, etc. Complete with remote control and all wiring.

Stock No.	DC Volts Input	Output Cont.	Wtge. Interm.	Mfg. No.	Wt. Lbs.	Size Inches	Net Each
29B130	12	25	30	Dynamo	12 x2	3 3/4	<b>8.45</b>
29A152	12	42	52	Electral	3	3 x2 1/4 x5 1/2	<b>17.62</b>
29A145	6	30	40	Senior	3	2 1/2 x2 1/4 x4 1/2	<b>15.66</b>
29A146	12	40	50	Senior	3	2 1/2 x2 1/4 x4 1/2	<b>15.66</b>
29A123	12	100	125	Chief	9 1/2	3 1/2 x4 x6 1/2	<b>45.73</b>
29A154	12	175	200	Supreme	25	10 3/4 x6 x6	<b>71.87</b>
29A176	12	300	...	Cont'n'l	28	11 x6 x6	<b>114.02</b>

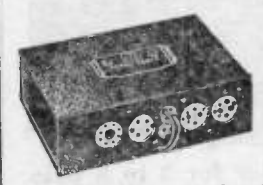
## TERADO BATTERY CHARGERS

① **Terado Challenger No. 50189.** For use on both 6 or 12 volts by flip of switch. 6 amp rating, has charge rate meter. Brown enamel steel case 4x5x6". Wt. 5 lbs. Complete ready to use. **\$19.86**  
No. 29A174. **Net Each**.....  
② **Terado Hi-Power No. 50180.** A 5 amp charger for 12 volts only. Charge Indicator light shows condition of battery. Copper clad steel case 2 1/4 x 3 5/2". Wt. 3 lbs. Has cigarette lighter attachment. **\$13.69**  
No. 29A173. **Net Each**.....  
③ **Terado 50185.** 1 1/2 amp charger for both 6 and 12 volt. Warning buzzer for improper connection. Direct battery connection. **\$7.51**  
No. 29B131. **Net Each**.....  
④ **Terado Dynamite 50186.** 1 amp charger for both 6 and 12 volts. Direct battery connection. **\$5.78**  
No. 29B132. **Net Each**.....



## PERMA-POWER BATTERY ELIMINATOR

**Model A101.** A simple, plug-in unit converts 1 1/2 volt battery sets for all electric operation from 110 V., 60 cycle AC lines. It has universal sockets to accommodate any radio and its small size will also fit most portables. Sufficient "A" and "B" power is supplied for 4 to 6 tube sets, 1 1/2 volts "A" at 350 MA and 90 volts "B" at 13 MA. Complete with instructions. Size 2 1/8 x 4 1/2 x 6 3/4". Wt. 4 lbs. Supplied with AC line cord and plug. **\$12.40**  
No. 36A11. **Net Each**.....



## BATTERY PLUGS AND SNAP-ONS

No.	Illus.	Batt. No.	Prongs	Eq.	(A) (B) (C) (D) (E)
12A573	A	736, 746	2	7c	(D) 12A1341. Individual snap fasteners for 455, 457, 467, etc. Male and female. Per Set..... <b>9c</b>
12A163	A	718, 4FP1	2	7c	(E) 14A717. Snap-on strip for 455, 456, etc. Each..... <b>18c</b>
12A162	A	742, 4F	2	7c	(E) 14C4. Snap-on strip for 437, 477, etc. Each..... <b>18c</b>
12A575	B	777	3	7c	(E) 14B127. Snap-on strip for U30, 415, etc. Each..... <b>24c</b>
12A575	B	482, 487	3	7c	
12A164	Lge.	482, 487	3	7c	
12A165	C	759, 6TA60	4	10c	

## CLIP-IN BATTERY HOLDERS

Stk. No.	Holds	Fits Battery Types	Net Each
14B109	one	912 Eveready—No. 7 Burgess,	<b>\$0.23</b>
14B110	two	Size .4" dia. x 1 3/4" Mini. cell	<b>.37</b>
14B111	one	915 Eveready—Z Burgess Pencil or	<b>.23</b>
14B112	two	ZM-9 Mercury cell	<b>.37</b>
14B113	one	935 Eveready—1 Burgess "C" cell or	<b>.29</b>
14B114	two	TR233 Mercury cell	<b>.37</b>
14B120	one	412 Eveready—U15 Burgess 22 1/2 volt or	<b>.29</b>
14B121	two	RM-412R Mercury cell	<b>.37</b>
14B123	one	413 Eveready—U20 Burgess 30 volt or	<b>.29</b>
14B125	two	RM-413R Mercury cell	<b>.46</b>
14B53	one	950 Eveready—No. 2 Burgess "D" cell or	<b>.29</b>
14B54	two	RM42R Mercury cell	<b>.37</b>
14B55	one	504 Eveready—Y10 Burgess 15 volt	<b>.23</b>
14B131	one	411 Eveready—U10 Burgess, 15 volt	<b>.29</b>

# Batteries



## EVEREADY Batteries FOR RADIO AND ELECTRONICS

### ENERGIZERS—TRANSISTOR BATTERIES

Stock No.	Fact. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Type
21B63	E9	.75	.56	2	.51	1.4	.55 dia. x 1.968	Z9
21A41	E91	.50	.33	1	.33	1 1/2	Alkaline Type Pen Cell	230
21A38	A100	.25	.16	1	.16	9	1 1/2 dia. x 2 1/2	V5327
21A43	206	.75	.53	1	.53	9	1 1/2 dia. x 2 1/2	2U6
21B141	216	..	.69	1	.69	9	1 1/2 dia. x 2 1/2	P6
21B159	226	..	.89	1	.89	13 1/2	1 1/2 dia. x 2 1/2	XX9
21C62	239	1.50	1.05	1	1.19	4 1/2	1 1/2 dia. x 2 1/2	Z23
21B175	243	1.70	1.19	1	1.30	9	1 1/2 dia. x 2 1/2	2N6
21B142	246	1.85	1.30	1	1.26	9	1 1/2 dia. x 2 1/2	D6
21B137	276	1.80	1.26	1	1.53	4.5	.662 dia. x 1.965	1306
21A46	333	.75	.53	1	.81	15	1 1/2 dia. x 1 1/2	U10
21B71	411	1.15	.81	1	.16	1 1/2	1 1/2 dia. x 1 1/2	130
21A39	635	.25	.16	1	.16	1	1 1/2 dia. x 1 1/2	930
21B78	1015	.25	.16	1	1.76	9	1 1/2 dia. x 1 1/2	D6P1
21B174	2506	2.50	1.76	1				

### "B" BATTERIES FOR PORTABLE RADIOS, ETC.

Stock No.	Fact. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Type
21A27	412	1.50	1.05	1	1.23	22 1/2	1 1/2 x 1 1/2 x 2 1/2	U15
21B69	413	1.75	1.23	1	1.75	30	1 1/2 x 1 1/2 x 2 1/2	U20
21B138	415	2.50	1.75	1	2.07	45	1 1/2 x 1 1/2 x 2 1/2	U30
21B164	416	2.95	2.07	1	3.15	67 1/2	1 1/2 x 1 1/2 x 2 1/2	UX45
21B121	437	4.50	3.47	3	2.08	75	1 1/2 x 1 1/2 x 2 1/2	XX50
21A17	455	2.95	2.29	3	2.42	45	1 1/2 x 1 1/2 x 2 1/2	XX30
21B67	457	3.45	2.66	6	2.45	67 1/2	1 1/2 x 1 1/2 x 2 1/2	K45
21A18	467	3.50	2.70	6	2.27	67 1/2	1 1/2 x 1 1/2 x 2 1/2	XX45
21B26	477	3.75	2.50	6	2.77	90	1 1/2 x 1 1/2 x 2 1/2	P45
21B132	479	3.95	3.05	6	2.70	45	1 1/2 x 1 1/2 x 2 1/2	P60
21A19	482	3.85	2.70	6	3.47	45	1 1/2 x 1 1/2 x 2 1/2	M30
21A29	487	4.95	3.47	6	3.16	45	1 1/2 x 1 1/2 x 2 1/2	D30
21B20	490	4.50	3.47	6	3.16	90	1 1/2 x 1 1/2 x 2 1/2	N60
21B68	493	11.95	8.37	6	8.37	300	1 1/2 x 1 1/2 x 2 1/2	U200

### PORTABLE "A" BATTERIES

Stock No.	Fact. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Type
21B172	707	1.50	1.05	1	1.15	7 1/2	2 1/2 x 2 1/2 x 2 1/2	D5
21B70	717	1.65	1.26	6	1.70	7 1/2	2 1/2 x 2 1/2 x 2 1/2	C5
21B66	724	1.00	.70	6	1.15	6	1 1/2 x 2 1/2 x 2 1/2	Z4
21A12	742	1.65	1.26	6	1.18	1 1/2	2 1/2 x 2 1/2 x 2 1/2	4F
21A31	744	1.65	1.28	6	1.16	6	2 1/2 x 2 1/2 x 2 1/2	4FP1
21A15	746	1.50	1.15	6	1.05	4 1/2	3 1/2 x 1 1/2 x 4 1/2	G3
21A8	763	2.35	1.61	1	1.61	22 1/2	Screw	4156
21A23	773	2.35	1.82	5	1.65	7 1/2	Scr. Ter. & Lead	5540
21A9	781	1.25	.97	5	.88	4 1/2	Screw Term.	5360
21B11	964	.45	.35	12	.32	1 1/2	3/8 Dia.	21R

### HOBBY BATTERIES (Screw Terminals)

Stock No.	Fact. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Type
21B120	E975	1.10	.80	12	.73	1 1/2	Gia-Plug Application	4FH
21B122	735	1.25	.84	1	.84	1 1/2	2 5/8 x 2 5/8 x 4 3/8	4FH
21A5	No. 6	1.25	.92	12	.84	1 1/2	2 5/8 dlo. x 6 5/8 No. 6 Ign.	

### PHOTO FLASH BATTERIES

Stock No.	Fact. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Type
21A50	815	.25	.16	1	.16	1 1/2	Pen Cell size	915
21A51	835	.25	.16	1	.16	1 1/2	C Cell size	935
21A52	850	.25	.16	1	.16	1 1/2	D Cell size	950
21B116	460K	2.50	1.67	1	1.67		For Polaroid Winklite w/Lomp	

### For Flashlight, Lantern, Emergency Lighting

Stock No.	Fact. No.	List Each	Net Each	Unit Pkg.	Per Pkg.	Description	Wt. Lbs.
21A53	E95	.75	.49	1	.49	1 1/2 Alkaline Type Cell	950
21A40	904	1.25	.08	1	.08	1 1/2 V., 44" dia. x 1.18" size N	
21C60	912	.15	.10	12	1.14	1 1/2 dia., 1 3/4" long #7	
21A3	915	.20	.14	12	1.56	Penlight Cell #2	1/8
21A2	935	.20	.14	12	1.56	Small Unit Cell #1 Size C	1/8
21A1	950	.20	.14	48	6.24	Large Unit Cell #2 Size D	1/8
21A4	509	1.19	.87	12	9.40	Lantern Battery Type F4H	1 3/4
21A5	No. 6	1.25	.92	12	10.08	Ignitor Dry Cell	2
21A211	1461	4.98	3.67	4	13.36	Hot Shot	9

### POPULAR "MINI-MAX" A-B BATTERY PACKS

Stock No.	Mfg. No.	List Each	Replaces Burgess For	Voltage	Size	Wt. Lbs.
21A209	752	5.78	G6B60 Zenith	9/90	14 x 2 1/2 x 4 1/4	6 3/4
21A208	753	6.43	F6A60 Philco, RCA	7 1/2-9/90	9 x 2 1/2 x 4 3/4	5
21B64	755	5.08	T5250	6-7 1/2/75	8 1/2 x 2 1/2 x 3 3/4	3 3/4
21B65	756	4.87	T6260	7 1/2-9/90	8 1/2 x 2 1/2 x 3 3/4	3
21A210	757	6.57	F6A60P Zenith, Halli	9/90	9 x 2 1/2 x 4 3/4	5
21A206	759	7.95	Standard	1 1/2/90 Volt Pack	15 1/2 x 4 1/2 x 6 1/2	17
21A220	W369	5.48	6TA60	1 1/2-90	9 1/2 x 2 1/2 x 4 1/4	5

### MALLORY MERCURY BATTERIES FOR MAXIMUM DEPENDABILITY

Stock No.	Mallory No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Size O.D.	Inches H.	Replaces Eveready
14C562	TR115	2.50	1.80	2	1.64	6.75	.65	1.295	E115
14C429	TR132	1.25	.92	2	.84	2.7	.655	1.305	E132
14C430	TR133	1.50	1.10	2	1.00	4.2	.655	1.96	E133
14C604	TR136	3.50	2.52	2	2.30	8.1	.655	3.906	E136
14C613	TR145	2.25	1.74	2	1.58	7.0	.65	1.050	E145
14C614	TR146	1.95	1.51	2	1.37	8.4	.65	1.118	E146
14C615	TR152	1.10	.79	2	.72	2.7	.48	1.125	E152
14A676	TR163	1.60	1.21	2	1.10	4.2	.65	1.118	E163
14A553	TR164	2.00	1.49	2	1.35	5.6	.65	1.118	E164
14A557	TR177	1.95	1.51	2	1.37	9.8	.65	1.118	E177
14C423	TR233	2.65	1.98	2	1.80	4.2	1.015	1.969	E233
14A554	RM675	.40	.29	6	.28	1.4	.65	1.118	E675

## BURGESS Batteries

THE ACCEPTED STANDARD FOR INDUSTRY, LABORATORY, AND ELECTRONIC NEEDS. FRESH STOCK ALWAYS AT B-A!



### "A" BATTERIES

Stock No.	Mfg. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Eveready
21B123	2F	\$1.10	\$0.77	12	\$0.77	1 1/2	2 1/2 x 2 1/2 x 2 1/2	1 3/8
21B79	2R	.20	.14	48	.13	1 1/2	2 1/2 x 2 1/2 x 2 1/2	2 1/8
21B80	4F	1.65	1.26	6	1.15	1 1/2	2 1/2 x 2 1/2 x 2 1/2	4 1/8
21B81	21R	.45	.35	12	.32	1 1/2	2 1/2 x 2 1/2 x 2 1/2	4 1/8
21B87	2FBP	1.15	.87	5	.79	1 1/2	2 1/2 x 2 1/2 x 2 1/2	4 1/8
21B88	F2BP	1.15	.87	5	.79	1 1/2	2 1/2 x 2 1/2 x 2 1/2	4 1/8
21B89	F4BP	1.19	.79	5	.79	3	2 1/2 x 2 1/2 x 2 1/2	4 1/8
21B90	2F2H	1.55	1.18	5	1.08	3	2 1/2 x 2 1/2 x 2 1/2	4 1/8
21B91	422	.85	.63	10	.57	3	2 1/2 x 2 1/2 x 2 1/2	4 1/8
21B92	432	1.00	.73	10	.66	4 1/2	2 1/2 x 2 1/2 x 2 1/2	4 1/8
21B93	532	1.02	.68	1	.68	4 1/2	2 1/2 x 2 1/2 x 2 1/2	4 1/8
21B153	B5	2.25	1.58	1	1.58	7 1/2	2 1/2 x 2 1/2 x 2 1/2	4 1/8

### "B" AND "C" BATTERIES

Stock No.	Mfg. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Eveready
21B97	P45	3.10	2.39	6	2.17	67 1/2	1 1/2 x 1 1/2 x 2 1/2	5 1/2
21B98	M30	3.85	2.70	1	2.70	45	3 1/2 x 1 1/2 x 2 1/2	5 1/2
21B100	4156	2.35	1.61	1	1.61	22 1/2	3 1/2 x 1 1/2 x 2 1/2	7 3/8
21A215	21308SC	7.65	5.36	6	5.36	45	8 1/2 x 4 1/2 x 2 1/2	7 3/8
21B101	5156SC	4.45	3.43	5	3.12	22 1/2	4 1/2 x 2 1/2 x 2 1/2	7 3/8
21B102	5308	4.35	3.06	1	3.05	45	4 1/2 x 2 1/2 x 2 1/2	7 3/8
21B104	K15	1.75	1.23	1	1.23	22 1/2	1 1/2 x 1 1/2 x 2 1/2	5 1/8
21B109	U30	2.50	1.75	1	1.75	45	1 1/2 x 1 1/2 x 2 1/2	5 1/8
21B99	XX45	3.50	2.45	1	2.45	67 1/2	1 1/2 x 1 1/2 x 2 1/2	5 1/8
21B61	UX45	2.95	2.07	1	2.07	67 1/2	1 1/2 x 1 1/2 x 2 1/2	5 1/8
21B112	XX30PI	3.00	2.10	1	2.10	10	1 1/2 x 1 1/2 x 2 1/2	5 1/8
21B113	Z30NX	3.85	2.96	5	2.69	45	3 1/2 x 1 1/2 x 2 1/2	5 1/8

### PHOTO-FLASH BATTERIES

Stock No.	Mfg. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Eveready
21B115	Z20	.25	.18	12	.16	1 1/2	1 1/2 Dia.	2 1/8
21B117	U15	1.50	1.05	1	1.05	22 1/2	1 1/2 x 1 1/2 x 2 1/2	412
21A216	N150	7.95	5.58	1	5.58	225	Strobomax 6	492
21A218	XX150	9.95	6.98	1	6.98	225	Strobafash II, III	489
21A219	U160	7.95	5.58	1	5.58	240	Strobafash I	491

### IGNITION, TELEPHONE, LANTERN BATTERIES

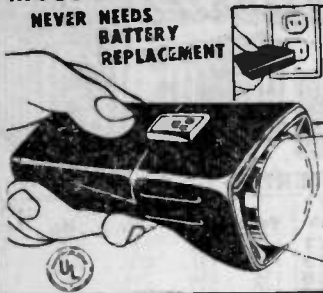
Stock No.	Mfg. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Eveready
21A32	4FH	1.25	.92	12	.84	1 1/2	2 1/2 x 2 1/2 x 2 1/2	4
21B119	4F2H	2.05	1.45	1	1.45	3	3 1/2 x 2 1/2 x 2 1/2	5 1/8
21A5	6 Ign	1.25	.92	12	.84	1 1/2	2 1/2 x 2 1/2 x 2 1/2	6 Ign
21A213	4F4H	4.98	3.34	1	3.34	6	8 1/2 x 4 1/2 x 2 1/2	706
21A214	4F5H	7.25	4.86	1	4.86	7 1/2	7 1/2 x 3 1/2 x 5 1/2	715
21A212	4F6H	8.25	5.53	1	5.53	9	8 1/2 x 3 1/2 x 5 1/2	716
21A4	F4H	1.19	.87					



# Electrical Specialties

## MOST POWERFUL RECHARGEABLE FLASHLIGHT

NEVER NEEDS BATTERY REPLACEMENT



MFG. LIST \$9.95 **\$7.95**

Extra dependable flashlight uses revolutionary new rechargeable battery burns brightly for hours on one charge. Recharges again and again just by plugging into 115 V. AC outlet. Convenient palm size, easy to hold. Has leather belt loop, luminous switch, built-in Ainco magnet for quick-hold attachment to any steel object. Full 5 year guarantee. Nationally advertised at \$9.95. No. 11A470. **\$7.95** 6 Lots, **\$7.50** Special Each

## SONOTONE RECHARGEABLE FLASHLIGHT BATTERY FITS 2-CELL FLASHLIGHTS

OUTLASTS HUNDREDS OF STANDARD FLASHLIGHT BATTERIES

Replaces 2 1/2 volt standard D flashlight batteries and can be used in any application where multiples of 2 standard D cells are used. Economical—gives



lifetime use, can be recharged thousands of times; simply unscrew the cap and insert prongs into ordinary 110 volt AC outlet and leave it plugged in overnight. It cannot be overcharged. Dependable—these cells are miniature sealed adaptations of the Sonotone sintered-plate, nickel cadmium vented batteries now used in jet aircraft and missiles. A complete recharging unit is incorporated with the sealed cells in the sturdy metal leakproof case. Weighs only 8 1/2 ozs. Mfg. list price \$7.95.

Stk. No.	Mfg. No.	1-3 Each	4-35 Each	36-107 Each	108-251 Each	252-503 Each
60A58	FC-2	<b>\$5.67</b>	<b>\$5.20</b>	<b>\$4.77</b>	<b>\$4.29</b>	<b>\$4.07</b>

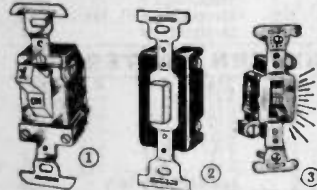
### HEAVY DUTY INDUSTRIAL FC-3

Suggested for utilities, municipalities and other industrial users who require a longer time between charges. Lighting time up to 4 hours with PR-4 or PR-6 bulb. Mfg. list \$9.95.

Stk. No.	Mfg. No.	1-3	4-35	36-107	108-251	252-503
60A33	FC-3	<b>\$6.97</b>	<b>\$6.47</b>	<b>\$5.97</b>	<b>\$5.37</b>	<b>\$5.10</b>

## MODERN U/L APPROVED ELECTRICAL SWITCHES

- FAR MORE CONVENIENT THAN USUAL TYPES
- FIT STANDARD OUTLET BOXES AND SWITCH PLATES



### 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. 11A362. Specify Ivory or Brown Single Pole. Net Each **\$2.19** 3 For **\$5.95**

### ② MODERN "TOUGH" WALL SWITCH

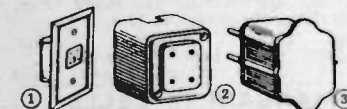
Converts "old-fashioned" noisy toggle switch installations to quiet push-button control with no wiring changes! Just a touch or nudge and lights go "on"; another touch and they're "off". Very convenient, especially when arms are loaded. U/L rated, 15A. 120-240 V. AC. Specify Ivory or Brown. No. 20A96. Single Pole. Net Each **76c** 10 Lots, **69c** Each. No. 20A97. 3-Way. Net Each **\$1.18** 10 Lots, Each **\$1.05**

### 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 V. AC, 5 A. 250 V. AC. No. 20A98. Single Pole. Net Each **\$1.24** 10 Lots, **\$1.12** Each. No. 20A99. 3-Way. Net Each **\$1.98** 10 Lots, Each **\$1.80**

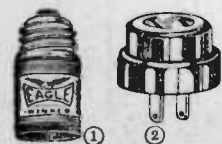
## TELEPHONE OUTLETS AND PLUGS

STANDARD WESTERN ELECTRIC STYLE, 4-WIRE



- ① WALL JACK. For 2, 3 or 4 wire telephone Intercom or speaker Installation. Mounts flush in standard outlet box. Has positive, spring tensioned contacts, screw terminals. No. 20A55. Brown or Ivory. Net Each **\$2.59**
- ② SURFACE JACK ONLY. Screw terminals. 2-hole mount. No. 20A58. Brown or Ivory. Net Each **\$1.69**
- ③ MALE PLUG. Used on portable instruments. Screw terminals. No. 20A57. Brown or Ivory. Net Each **\$1.47**

## WINKER FLASHER PLUGS

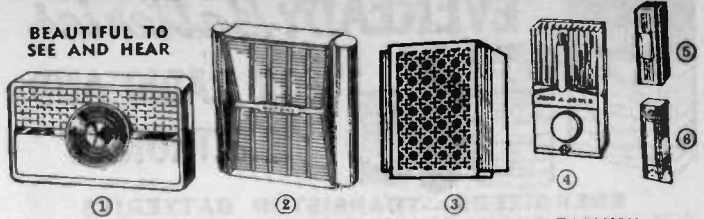


FOR USE WITH ANY SIZE 115V LAMP

- ① "Winker" Flasher Socket; flashes up to 660-watt lamp load 10 to 16 times per minute; Standard socket, No. 20A237. **76c** 5 @ **68c** Each
- ② "Winker" plug-in flasher; for signs, Xmas lights, flashes up to 100-watts 10 to 16 times per minute. No. 20A206. **36c** 5 @ **32c** Each

## NUTONE ELECTRICAL DOOR CHIMES

BEAUTIFUL TO SEE AND HEAR



### LIFETIME FINISH GUARANTEED NOT TO RUST OR TARNISH

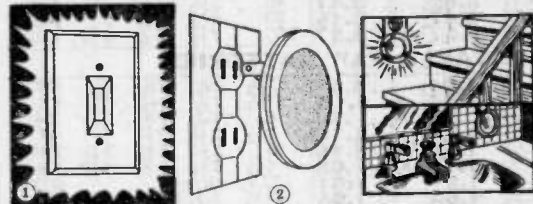
Electrical types require transformer and pushbuttons listed below.

- ① L-12 "CHAMPION"—Plastic cover. Ivory and gold. Two notes front door, one note rear door. 7 1/2 x 4 5/8". Wt. 1 1/4 lbs. No. 36A130. Mfg. list \$4.95. Net Each **\$3.33**
- ② L-16 "HARMONY"—Plastic cover. Ivory and gold. Two notes front door, one note rear door. 7 x 7 1/8 x 2 3/4". Wt. 2 1/2 lbs. No. 36A136. Mfg. list \$7.95. Net Each **\$5.35**
- ③ L-31 "CHORD TONE"—Desert sand cover. Smart grille pattern. Gold flecked grille cloth. Two tones front door; one, rear door. 7 1/2 x 9 1/8 x 2 7/8". Wt. 3 3/4 lbs. No. 36A137. Mfg. list \$13.95. Net Each **\$9.48**

### NUTONE PUSHBUTTONS FOR ELECTRIC DOOR CHIMES

- ④ MODEL PB-8. Electrically lighted "Push-Lite". Gold anodized finish with nameplate. Size 3 x 1 1/2". Wt. 2 oz. No. 20A5. Mfg. list \$2.50. Net Each **\$1.63**
  - ⑤ MODEL PB-10. Electrically lighted "Beacon". Gold anodized and black. Size 2 5/8 x 7/8". Wt. 2 oz. No. 20A6. Mfg. list \$1.70. Net Each **\$1.18**
  - ⑥ MODEL PB-11. No light "Pacesetter". Gold anodized. 2 3/4 x 3/4". No. 20A7. Mfg. list 65c. Net Each **44c**
- NUTONE TRANSFORMER. For use with above electric door chimes. 16 volts (10 VA) mounts anywhere. Can take substantial surge loads. 10 watts. Measures 2 x 2 5/8 x 2". Shpg. wt. 1 lb. No. 20A4. Mfg. list \$3.35. Net Each **\$2.26**

## SYLVANIA PANELESCENT "NITE LITES"



### GLOW IN THE DARK

GOOD FOR 5 YEARS CONTINUOUS USE Operate For Pennies a Year

- ① WALL PLATE. Attractive pearl-tone luminescent night light for hallway, stairway, bath, bedroom or nursery. Installs easily in place of regular switch plate. Automatically goes "on" when room light is "off". No. 11A364. Mfg. List \$2.49. Net Each **\$1.88** 10 Lots, **\$1.75** Each
- ② PLUG-IN NITE LITE. Sheds gentle luminescent glow from any 115 V. AC outlet—simply plugs in. Only 3/4" dia., 1/4" thick. No. 11A474. Net Each **99c** 10 Lots, **90c** Each



SYLVANIA 250-WATT Infra-red

R-40 HEAT LAMP

Instant penetrating heat for treatment of aches, pain, drying paint, thawing pipes, etc. 250 watt, 115 volt AC or DC. Fits any standard light socket. Clear glass reflector. No. 11A535. **88c** 12 @ **80c** Net Each

As above except Red Bowl Reflector used in restaurants, food preparation, etc. No. 11A574. Net Ea. **\$2.37** 12 @. Each **\$2.13**

### Clamp-On Infra-Red Lamp

Lamp thaws frozen pipes, warms auto engines, dries films, paints, etc., as well as relieving muscular soreness, congestion, sinus conditions, drying hair, and dozens of other uses. Rubber covered clamp grips fast to most any surface. Double ball swivel beams lamp in any direction. Extra heavy wire guard protects lamp, prevents burns. Complete with popular Sylvania 250-Watt R40/1 Bulb, push-button socket, 6 ft. cord and plug. Wt. 3 lbs. No. 20A933. Complete **\$2.75**

No. 20A932. Same as above Less Lamp. Each **\$1.99**



## OUTDOOR LIGHTING EQUIPMENT



Cadmium plated OUTLET-BOX type bracket for ANY Reflector, Projector, or Heat lamp. Adjustable to direct beam of light in ANY direction. May be fastened direct to 4" outlet box, or by screws to any surface. All steel; porcelain socket. Base 4 1/8" diameter. Wt. 1 1/2 lbs. (Less Lamp.)

11A536. **\$1.71** 3 @ **\$1.51** Each

### 75 and 150 Watt Outdoor Reflector Lamps

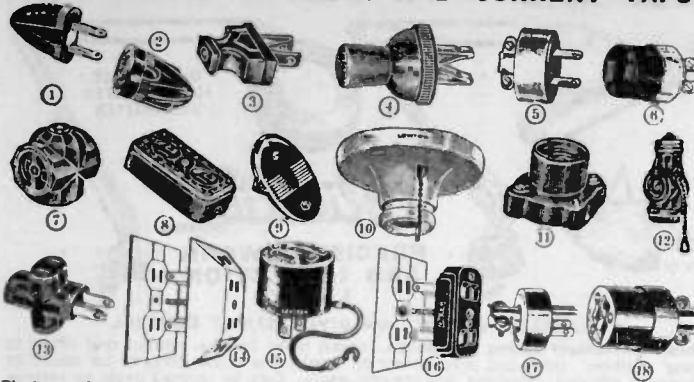
"SYLVANIA" PAR-38 Weatherproof Spot or Floodlamp for OUTDOOR Built-in silvered reflector; skirted standard screw base. 120 volt.

11A533. 75W Spot Each **\$1.83**  
11A534. 75W Flood 12, Each **1.67**  
11A531. 150W Spot Each **1.83**  
11A532. 150W Flood 12, Each **1.67**



# Electric Plugs, Elements, Control Devices

## 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.

Stk. No.	Description	Each	10 For
① 20A114	Black, Brown or Ivory Vinyl Cap Sto-tite brass blades, screw terms.	14c	\$1.20
② 20A115	Black, Brown or Ivory Vinyl Cord Receptacle Mates with Fig. ① or other std. AC plugs	19c	1.70
③ 20A29	Bakelite Flat Handle Cap	9c	.80
④ 20A91	Rubber Handle Cap—375" cord hole	10c	.83
⑤ 20B186	Rubber Heavy Duty Power Tool Cap— 540" cord hole	15c	1.28
⑥ 20C37	Heavy Duty Armored Cap—7/8" cord clamp	34c	3.00
⑦ 20C38	Heavy Duty Armored Receptacle. Mates with ⑥	60c	5.30
⑧ 20A122	Bakelite Extension Cord Trio-Tap	15c	1.30
⑨ 20A30	Bakelite Duplex Tap. Cord or surface mount	21c	1.90
⑩ 20A31	Bakelite In-Line Cord Switch	27c	2.45
⑪ 20A101	Porcelain Pull Chain Receptacle, 3/4 or 4"	49c	4.45
⑫ 20A341	Bakelite Cleat Receptacle. Std. screw base	16c	1.40
⑬ 20A84	Bakelite Pull Socket—2 live side taps	28c	2.55
⑭ 20A116	Vinyl Plug-In Trio-Tap. Sto-tite blades	19c	1.70
⑮ 20A100	Bakelite 4-Tap Adaptor for std. duplex recept.	59c	5.30
⑯ 20A1	Bakelite 3-Prong Grounded Adaptor for single receptacle. Parallel Blades, U ground	21c	1.90
⑰ 20A117	Bakelite 3-Prong Grounded Adaptor for duplex receptacle. Parallel blades, U ground.	69c	6.30
⑱ 20A102	Armored 3-Prong Grounded Cap. Mates ⑱, ⑲, ⑲	40c	3.70
⑳ 20A103	Armored 3-Prong Grounded Cord Receptacle	92c	8.40

## REPLACEMENT IRON AND APPLIANCE ELEMENTS



### ① 115 VOLT COILED NICHROME WIRE ELEMENTS

Finest quality, for repair of Hot Plates, Toasters, Heaters.  
No. 20A119. 600 W. #3, 7/8" dia. coil. Net Each. .25c 10 @ Each. .23c  
No. 20A224. 1000 W. #7, 1 1/2" dia. size 20. Net Ea. .40c 3 For. . \$1.29

### ② FITTS-ALL IRON ELEMENTS

No. 20A222. 1000 W. Fits 6 lb. non-automatic. Net Ea. .05c 10 @ Ea. .75c  
No. 20A86. 600 W. For light non-automatic Net. Ea. .51c 10 @ Ea. .45c

### ③ 1000 WATT CONE HEATER ELEMENT

No. 20A280. Standard 115 V. screw base. Net Each. .82c 10 @ Each. .72c

### ④ COFFEE MAKER ELEMENT For "Silox" and "Mill-Show"

Top grade Nichrome V wire imbedded in 3/8" dia. "brick" with terminals  
an 1/2" centers. Also fits many other types.  
No. 20A279. Net Each. . \$1.02 5 @ Each. .90c

### ⑤ 550 WATT TOASTER ELEMENT

Flat Nichrome wire wound on top grade mica.  
No. 20A223. With adjustable mounting. Net Each. .77c 10 @ Each. .68c

### ⑥ 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.

Stk. No.	Description	Net. Ea.	3 @ Ea.
20A281	12 Ft. #2—Size 22, 7/8" dia. coil	\$2.55	\$2.25
20A282	10 Ft. #3—Size 22, 7/8" dia. coil	3.40	3.00
20A283	10 Ft. #4—Size 20, 1 1/2" dia. coil	5.10	4.50

## U/L REPAIR CORD SETS

### ① MINIATURE #18 ASBESTOS 6 FT. CORD SET

For Heaters, Coffee makers, Waffle Irons and appliances with 1/2" terminal spacing. U/L. 3000 cy.  
No. 20A847. Each. . . . .65c 5 Lots, Each. . . . .57c

### ② No. 16 ASBESTOS HEATER REPAIR CORD

Super-Value! 7' long. 10,000 cy. Has ring terminals one end, soft rubber plug on other. U/L approved.  
No. 20A869. Net Each. .92c 5 Lots, Each. .81c

### ③ U/L NO. 18 PARALLEL PLASTIC CORD SETS

Finest quality, with molded plug. End stripped and tinned. For lamps, clocks, radios, etc.

No.	Description	Each	10
19B911.	6 Ft. Brown. Choice		10
19A910.	6 Ft. Gray.	Each. .27c	For. \$1.99
19A909.	9 Ft. Brown.	Ea. .39c	10 Ea. .35c

### ④ SHOCKPROOF GLASS PLUG FUSES

No. 20A56. 15 Amp Cms. . . . .10  
No. 20A59. 30 Amp 5 for. . . . .29c Cms. . \$2.50

### ⑤ FUSED ADAPTOR PLUG

Plugs into wall receptacle ahead of power card.  
No. 14C179. Less 3AG Fuses. Net Each. . . . .39c

## FLEXIBLE "ELECTROSTRIP"

At long last a completely flexible electrical plug-in strip—bend it, curve it, fold it in any angle desired—has pre-punched holes for mounting on walls, corners, work benches, etc.—Twist sockets can be instantly attached or removed . . . anywhere on the strip—even AC connecting cord may be mounted anywhere on the strip. Comes complete; 4 ft. Electrostrip, 3 twist-on sockets, card, plug and mtg. hardware. UL approved. Rated 15 amps at 125 V. AC. Additional outlets may be added to the strip. Wt. 2 lbs.  
No. 31C21. Net. . . . . \$2.99  
No. 20A21. Extra Twist-on Outlets. Each. . . . .37c

BEND IT!  
CURVE IT!  
FOLD IT!



TWIST SOCKETS CAN BE ATTACHED OR REMOVED ANYWHERE ON THE STRIP

## HEAVY DUTY MULTIPLE OUTLET BOX

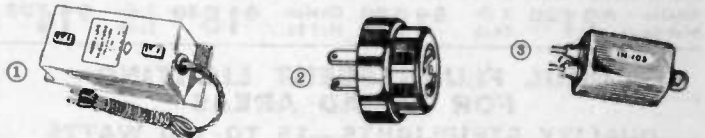
### 6 CONVENIENT AC OUTLETS

6 replaceable type sockets, "on-off" switch, pilot-light, fused plug, and heavy-duty 10 ft. neoprene power cord. Mounts conveniently anywhere or can lay flat. Size—10" long. Rated 15 amps, 115 V. UL approved. Shpg. wt. 2 lbs.  
No. 29A122. List \$9.95. Ea. \$6.61



## INTERFERENCE SUPPRESSION FILTERS

### FOR INSTALLATION ON THE OFFENDING DEVICE



### ① TELEVISION PLUG-IN POWER LINE FILTER

For use at TV set or on interfering device. Handles set or equipment up to 500 W. 120 V. AC or DC.  
No. 29A88. Drake. Type LN-5 "Inductube" Filter. Net Each. . . . \$6.95

### ② RADIO PLUG-IN NOISE FILTER

Eliminates or greatly reduces buzz in radia from electric shavers, mixers, other small appliances.  
No. 14B66. Each. . . . .45c 10 Lots, Each. . . . .39c

### ③ FLUORESCENT LIGHT FILTER

For installation inside the fixture. Requires one for each fixture. Designed especially to suppress radio noises caused by fluorescent lamps. Does not affect operation or light efficiency.  
No. 19A72. Aerovox Type 1N-105. Net Each. . . . . \$1.05

## WORNER ELECTRONIC RECEPTIONIST

### SOUNDS CHIME WHEN LIGHT BEAM IS INTERRUPTED

Compact single unit with exciter lamp, photo-cell tube, and two lenses. Projects a beam of light across any entrance from 3 to 10 ft. wide. Mirror reflects beam back into photocell. Breaking of this beam by any person or moving object operates built-in relay which in turn sounds chime furnished.



Perfect for professional offices, stores, factories, homes—anywhere.

Grey hammertone metal case, size only 8 3/8 x 6 1/2 x 2 3/8". For 115 volts, 60 cy. AC. Shpg. wt. 8 lbs.

No. 36A15. Model 61. Net Each. . . . \$39.69  
Replacement Exciter Lamp. 16B426. Net Ea. . . . .66c



## "NITE-LIGHTER" PHOTO ELECTRIC SWITCH

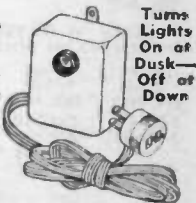
DUSK-TO-DAWN PROTECTION FOR YOUR HOME  
AUTOMATIC . . . NO DIALS TO SET!

Protects your home, office, store, etc. by turning on lights automatically when you are away. Discourages prowlers, prevents accidents in the dark.

Tiny light sensitive cell in face of control box actually sees daylight and through 115 V. AC power source causes relay switch to turn lights off and on with daylight and darkness.

Completely silent in operation. Uses less power than an electric clock. Simple plug-in connection with U/L approved cord set. Handles lamp load up to 600 watts. Size 3 x 2 1/2 x 1".

No. 37B149. Wt. 12 oz. Net Each. . . . . \$7.95



Turns Lights On at Dusk—Off at Dawn

## MINIATURE PHOTO ELECTRIC SWITCH

For Day-Night Control, Furnace Flame-out, Conveyor Control, etc. Tubeless photocell and relay in dustproof plug-in case. Operates directly on 115 V. 60 cycle AC with light source of 5 foot candles or less, releases at .1 foot candle. Relay switching SPDT 3 amps. Size 1 1/2" sq., 1 1/8" H. 5 Pin miniature base. Wt. 3 oz.

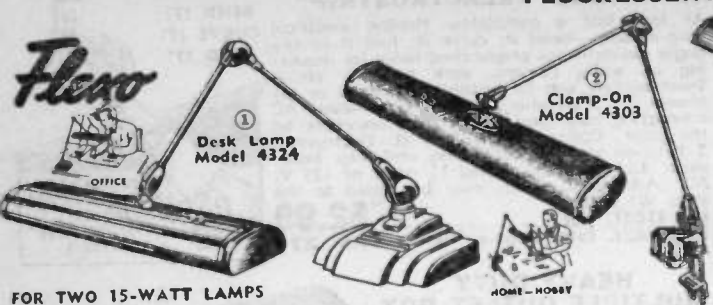
No. 19A521.  
Sigma CDS-1. Net Each. . . . . \$15.00





# Fluorescent Fixtures & Lamps

## FLUORESCENT DESK LAMPS



FOR TWO 15-WATT LAMPS

FINE ADJUSTABLE DESK LAMPS

Feather-touch control allows adjustment of arms to ANY position, smoothly, noiselessly and without effort; stays put in selected position until moved again! 36-inch 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 decorative die-cast ends and high light output reflector. Both models are UL approved and are fitted with 8-ft. connecting cords.

**① DESK MODEL 4324**  
Has heavy no-tip cast base with felt on bottom. Wt. 28 lbs. Mfg. list \$28.95. Less Lamps  
No. 32B54—Royal Gray  
No. 31A262—Statuary Bronze  
Choice 3 @ \$21.28  
Net Ea. Each \$19.88

**② CLAMP-ON MODEL 4303**  
Easily clamped to edge of any desk or table up to 2 1/4" thick. Wt. 10 lbs. Mfg. list \$20.95. Less Lamps.  
No. 32B55—Royal Gray  
No. 32B31—Statuary Bronze  
Choice 3 @ \$15.40  
Net Ea. Each \$14.38

PARALLEL ARM ACTION GIVES PERFECT CONTROL

Most convenient seeing aids made. Lamp head can be rotated and tilted to any position. Balanced parallel action steel arms allow lamp to be raised or lowered without affecting adjustment angle. Can be pushed aside or returned to service instantly. 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**  
Finest light for close work of any kind, used by draftsmen, machine operators, offices, homes. Mfg. list \$26.45 Less Lamps. Wt. 10 lbs.  
No. 34A13G—Grey  
No. 34A13B—Brown  
Choice 3 @ \$19.85  
Net Each \$18.85

**④ INSPECTION LAMP-MAGNIFIER**  
Both hands free to manipulate work. Furnishes glare-free light from 22-watt circline lamp around 5" distortion free lens. AC outlet in base. Mfg. list \$38.50. Less lamp. Wt. 12 lbs.  
No. 34A15—Grey  
Net \$28.88  
Choice 3 @ \$27.44  
Net Each \$27.44

## COOL FLUORESCENT LIGHTING FOR BROAD AREAS

QUALITY STRIPLIGHTS—15 TO 150 WATTS

Features U/L approved components throughout, heavy steel bodies finished in baked white enamel and removable covers to permit easy installation. Overall lengths are 1/2" longer than lamp used.  
96" units are supplied with 1 1/2" dia. 430 MA Slimline Cool White Lamps. Others, with choice of lamp. Please specify.

Stk. No.	For Lamp	Chunnel Size	Weight	Net Ea.	3 @ Ea.
31A15	15-Watt, 18"	2 x 2 3/4" W.	4 lbs.	\$3.88	\$3.40
31A16	20-Watt, 24"	2 x 2 3/4" W.	5 lbs.	3.83	3.53
40B187	30-Watt, 36"	2 x 2 3/4" W.	8 lbs.	5.89	5.20
40B188	40-Watt, 48"	2 x 2 3/4" W.	10 lbs.	5.69	5.20
40A18	75-Watt, 96"	4 3/8 x 3 1/2" W.	28 lbs.	15.83	13.89
40A19	Two 75-Watt, 96"	4 3/8 x 5" W.	34 lbs.	18.51	16.45

## "DREADNAUGHT" DOUBLE-40 PLUG-IN UNIT

Top efficiency, portable illumination—quickly installed or moved! TWO 40-watt lamps spaced 5-inches apart in full 13" wide reflector! U/L approved components mounted in strong steel wireway with knockouts on top and both ends—may be hung by rod, pipe or chains fastened to brackets on each end. Quick-on Reflector slips over lamp holders, is held by thumb screws. Super-white reflecting surface, gray enamel exterior finish. Size is 48 1/2" long, 13 1/4" wide, 6" deep; wt. 21 lbs. 6-ft. cord and plug, supplied complete with your choice of 40-watt lamps.  
Stock No. 40B189. "Dreadnaught"  
Double-40 Unit, Each \$12.31  
3 @ \$11.26 Each

## SYLVANIA ELECTRIC FLUORESCENT LAMPS



Available in DAYLIGHT; COOL WHITE (4500° White); or the new and popular WARM WHITE. All prices include Excise Tax.

Day-light	Cool White	Warm White	Rated Lamp	Net Wt.	Net Each	Lots of 6 Lamps Each	Lots of 24 Lamps Each
34C139	34C140	34C141	15	8 oz.	\$1.13	\$0.92	\$0.82
34C142	34C148	34C149	20	8 oz.	1.13	.92	.82
	40B190		30	1 lb.	1.27	1.04	.93
40B191	40B192	40B193	40	1 lb.	1.27	1.04	.93

CIRCLINE FLUORESCENT LAMPS.							
12" Dio.	34B6	34B10	32	1 lb.	3.42	2.99	2.66
8" Dio.	34B14		22	1 lb.	3.42	2.99	2.66

## SYLVANIA FLUORESCENT STARTER SWITCHES

No.	Type	For Lamp	Net Ea.	10 @ Ea.	50 @ Ea.
20A68	FS-2	14, 15, 20-watt	24c	19c	17c
20A69	FS-4	13, 30, 40-watt			
20B8	FS-5	4, 6, 8, 22, 25-watt	42c	34c	29c
20B9	FS-12	32-Watt Circline	28c	22c	20c

## CLAMP-ON INCANDESCENT LAMPS



FOR BENCH OR DESK  
MFG. LIST \$8.77  
\$12.95

Flexo Model 5600. Fully adjustable arm totals 31" length, beams light in any direction. Padded clamp bracket holds securely to flat surface up to 2 1/8" thick. Complete with 6 ft. AC cord and plug. Mfg. list \$12.95.

No. 30A248G—Grey  
Wt. 5 1/2 lbs. Less Bulb. Net Each \$8.77  
3 @ \$8.33 Each

Glidelite Regal Lamp. Most versatile adjustable lamp made. Has balanced parallel acting support arms to hold angle position of light regardless of up, down or side adjustment. Moves with a "flick of the finger" and stays put! Glide arms extend 45" in any direction from base. Clamp fits edge of table or other flat surface. Mfg. list \$19.90. Less Bulb.

No. 34A16—Grey  
Wt. 7 lbs. Net Each \$14.95  
3 @ \$14.20 Each

## FLEXIBLE ARM DESK LAMPS



Flexorm shade holds two 15-watt fluorescent lamps

Adjustable Gooseneck 8" to 14" above desk

MFG. LIST \$14.97  
\$10.95

12-INCH FLEXIBLE ARM \$2.40  
USE UP TO 75-WATT LAMP

Two 15 watt lamps shed wonderful light-to-see-by over a broad desk area. Fine for home or office. Wide range adjustment, up, down or tilted as desired made possible by sturdy flexible arm. Shade is 2 1/8 x 4 1/2 x 18" long with white enameled interior reflector and switch on top. Pencil grooved base, 5 1/4 x 6 1/2" on rubber feet. With 6 ft. AC cord and plug. Mfg. list \$14.97. Wt. 10 lbs. Less Lamps.

No. 30A217—Statuary Bronze Choice \$10.95  
No. 30A218—Royal Grey Each \$10.40  
3 @ \$10.40 Each

## 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 felt covered base, 6 ft. cord and plug. Wt. 4 lbs. Less Lamp.

No. 32A20. \$2.40  
Net Each \$2.18  
6 @ \$2.18 Each

## INCANDESCENT NITE-LITE

FOR BEDROOM, NURSERY, STAIRS OR HALL  
Plugs into any outlet. New right-angle design hugs the wall. Shade controls illumination. On-off switch.  
No. 11B116. \$46c  
Brown or Ivory. Net Each \$46c

# BUILD NATIONALLY FAMOUS BRAND NAME KITS SPECIALLY SELECTED BY B-A!

## SAVE UP TO 50% AND MORE!

**QUICKLY AND EASILY ASSEMBLED BY ANYONE—NO ELECTRONIC EXPERIENCE NECESSARY**

All Kits on the following pages have been chosen by B-A for their tremendous value and quality of performance.



### MONEY-BACK GUARANTEE

Burstein-Applebee Co. unconditionally guarantees that each brand name kit sold by us and assembled correctly in accordance with the simplified instruction manual with each kit, must meet the specifications therein stated for performance or your purchase price will be cheerfully refunded.



FOR HOURS OF PLEASURE WITH A FINISHED PRODUCT TO BE REALLY PROUD OF



USE B-A's EASY PAYMENT PLAN ON MOST KITS



## WORLD-FAMOUS EICO HFT90 FM TUNER KIT

*PRaised BY EXPERTS AS "BEST BUY"*



INSTANTLY ADAPTABLE TO FM MULTIPLEX—See Bottom Right on Page 92 for Adaptor

#### EXCLUSIVE FEATURES

- Precision Eye-Tronic Tuning—colorful traveling tuning indicator contracts into an exclamation point at the exact center of each broadcast channel.
- Drift-free without AFC.
- Pre-wired, pre-aligned "front end".
- Pre-aligned IF transformers.
- Pre-wired precision Eye-Tronic Tuning assembly.
- Flywheel tuning.

ONLY  
**\$39<sup>95</sup>**  
LESS COVER

Equal to or surpasses wired tuners up to three times its price! First kit to include an entirely pre-wired, pre-aligned "front end" (housed and completely shielded in an aluminum zinc coating). This front end provides fabulous sensitivity, low noise and low oscillator radiation plus stability and guaranteed drift-free operation by virtue of the most advanced circuitry and temperature compensated components. As in the costliest and finest FM tuners no AFC is used because none is needed. With a sensitivity more than six times that of other kit tuners the HFT90 provides excellent reception even in fringe areas.

**SPECIFICATIONS:** Frequency Response; uniform from 20 to 20,000 cps  $\pm 1$  db. Sensitivity: 1.5 uv for 20 db quieting, 2.5 uv for 30 db quieting, full limiting from 25 uv. Inputs: 300 ohm balanced. IF Bandwidth: 260 KC at 6 db points. Detector characteristic: Peak separation of 600 KC. Lineor bandwidth of 400 KC broadband ratio detector preceded by stabilized limiter stage. Output: Two provided; Cathode follower and multiplex. Cathode follower permits use of up to 200 ft. of connecting cable. For 10 uv input with 75 KC deviation, an audio output of 1.0 volt is obtained. Hum 60 db below 1 volt. Controls: Tuning, Level/Power On-Off. Tubes: 1-ECC85/6AQ8 grounded grid RF amplifier and reflex converter; 2-6AU6 IF amplifiers; 1-6AU6 IF amplifier/limiter; 1-6AL5 dual diode detector, 1-DM70 tuning indicator; 1-6C4 cathode follower output; 1-6X4 fullwave rectifier. Power: 110-125 V. AC 60 cy. 40 watts drain. Size 3 $\frac{5}{8}$ " H x 12" W x 8 $\frac{1}{4}$ " D. Wt. 10 lbs. Shpg. wt. 14 lbs.

**\$39.95**

No. 30B223. Kit Each.....	\$39.95
No. 30A75. HFT90 FM Tuner, Factory Wired. Net Each.....	\$65.95
No. 30B224. Metal Cover Each.....	\$3.95
No. 30A255. Unfinished Birch Wood Cabinet. Each.....	\$8.95
No. 30A256. Finished Walnut Wood Cabinet. Each.....	\$12.50
No. 30A257. Finished Mahogany Wood Cabinet. Each.....	\$12.50

### WHAT THE EXPERTS SAY

"One of the Best Buys in High-Fidelity Kits",  
—AUDIOCRAFT.

"An excellent Kit . . . and at a very attractive price",—AUDIO.

"Audio quality . . . excellent, its frequency response very wide, its distortion low. Noise pickup . . . was minimal. Drift . . . absolutely absent . . . would lock into a station in 30 seconds . . . and stay locked in!"  
—ELECTRONICS ILLUSTRATED.







# BUILD EICO KITS FOR MORE FUN...MORE SAVINGS

## YOUR BEST BUY IN A 28-WATT STEREO INTEGRATED AMPLIFIER



### PRaised BY THE EXPERTS

- "Excellent" — Saturday Review/Hi-Fi Music at Home.
- "Outstanding Quality... extremely versatile" — (Lob Tested) Electronics World.
- "Solid, well-designed unit" — Popular Electronics.
- "It is a good value considered purely on its own merits, and a better one when its price is considered as well" — Hirsch-Mouck Lobs (High Fidelity Mogozinc).

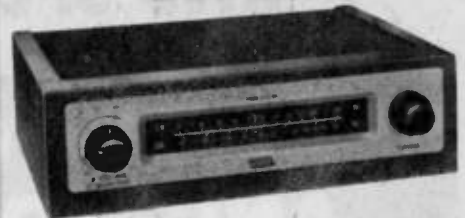
- The ultimate in Engineering
- Compact Design
- Low, low cost.
- Quality components.

**EICO**  
**\$69<sup>95</sup>**  
 COMPLETE KIT

The magic of stereophonic sound is yours at a low price with this new "low silhouette" dual channel amplifier-preamplifier. One compact chassis contains two separate 14 watt amplifiers complete with their respective preamplifiers. Separate balance controls allows each amplifier to be set at proper level. A master volume control permits adjustment of both amplifiers simultaneously for desired overall listening volume. Features separate low level input in each channel for magnetic phono, tape head, and microphone. Front panel switch for proper NARTB tape head equalization for either 7 1/2 and 15 or 3 3/4 ips tape speeds. Separate high level inputs for AM tuner, FM tuner, and FM multiplex. Two auxiliary inputs, one in each channel. Input selector switch on front panel has positions for feeding FM tuner output to one channel and AM tuner to other,

or FM tuner to one channel and FM multiplex adopter output to other. Independent full-range bass and treble controls of the variable crossover feedback type in each channel. Identical Williamson type, push-pull EL84 power amplifiers with high quality output transformers. Specifications: 28 watts (two 14 watt channels) continuous; 56 watts peak; 1M distortion 2% at rated output. Frequency response  $\pm .5$  db 10 cps to 100 KC at 2 watts. Harmonic distortion less than 1%. Speaker output 4, 8, 16, and 32 ohms. Tubes: 4-ECC83/12AX7, 2-ECC82/12AU7, 4-EL84, 2-EZ81. Size 15" W x 4 3/4" H x 10 1/2" D. Wt. 24 lbs.  
 No. 30A94. HF81. Complete Kit Including Metal Cover **\$69.95**  
 Net Each.....  
 30A95. HF81 Factory Wired, Net Each.....\$109.95

## NEW EICO MODEL HFT92 FM-AM TUNER



- FM Section Same as Famous HFT90.
  - Exclusive Eye-Tronic Tuning.
  - Instantly Adapts to FM Multiplex (see below)
- \$59<sup>95</sup>**  
 Complete Kit

Combines on one chassis the famous HFT90 FM Tuner with an excellent AM tuning unit offering the convenience of two complete tuners in one compact unit. The FM section includes an entirely pre-wired, pre-aligned "front end" housed and shielded in a solid aluminum-zinc casting. All IF coils in both FM and AM sections are pre-aligned at the factory so that no test instruments are needed for completion. Exclusive "Eye-Tronic" tuning on both AM and FM sections for instant station selection. Features slide rule dial, fly-wheel tuning, front panel volume control with off-on switch, and band selector switch. Specifications: FM section: see HFT90 specs. on previous page. AM Section: sensitivity 20 uv for 0.8 V. output with 15 db S/N. Selectivity—8 KC at 6 db. Frequency response—20-5000 cps  $\pm 3$  db. Hum level 60 db below 1 volt. Output—min. output of .8 volt with 20 uv input, 30% modulation. Tuning range 540-1650 KC. Total harmonic distortion—below 2% to 10% mod. Size 3 3/8" high x 12" wide x 8 1/4" deep. Wt. 12 lbs.  
 No. 30A236. Model HFT92K FM-AM Tuner Kit Complete with Metal Cover. **\$59.95**  
 Net Each.....  
 No. 30A230. Model HFT92 Factory Wired.....\$94.95

## EICO ST-40 40-WATT STEREO INTEGRATED AMPLIFIER



- Newest styling.
- Advanced Engineering.
- 80 Watts Peak Power.

**\$79<sup>95</sup>**

A complete Hi-Fi Stereo Control Center at your finger tips — containing a master stereo pre-amplifier and two 20-watt amplifier units, all on one chassis, enclosed in a new decorator style cabinet. Selects, controls, and amplifies any program source, stereo or monaural, tape, discs or broadcasts. Switched pairs of stereo inputs include: mag. phono, tape head, stereo inputs include: FM-AM stereo tuners; FM-AM multiplex, and auxiliary. Level controls are clutch concentric type, with concentric bass and treble controls. Switches include balance check switch, loudness level switch, 6-position mode selector, tape monitor, scratch and rumble switches. Output for 4, 8, and 16 ohm impedance, with provision for third channel. Specifications: Power output — 40 watts continuous (20 watts each channel), 80 watts peak; 1M distortion — 2% at 40 watts; harmonic distortion .5% at 40 watts; frequency response 20-20,000 cps  $\pm .5$  db. Tubes: 2-12AX7, 4-7247, 1-GZ34, 4-7591. Size 15 7/8" W x 5" H x 16" D. Wt. 27 lbs.  
 No. 30A261. Model ST-40 Kit Complete with Metal Cover, Net Each. **\$79.95**  
 30A262. Model ST-40, Factory Wired.....\$129.95

**70-WATT STEREO INTEGRATED AMPLIFIER**  
 Identical in appearance and function to the ST-40 above, except the power is 70 watts total, 35 watts each channel. Has additional features of infinitely variable blend control, and tape speed equalization. Specifications are the same as the ST-40. Tubes: 3-12AX7, 2-7247, 2-6SN7GT, 1-GZ34, 4-7591. Size 15 7/8" W x 5" H x 16" deep. Wt. 35 lbs.  
 No. 30A263. ST-70 Kit Complete with Metal Cover, Net Each. **\$94.95**  
 No. 30A264. ST-70 Factory Wired.....\$149.95

## EICO MODEL ST96 \*FM-AM STEREO TUNER



- "Eye-Tronic" Tuning Indicator.
- Pre-wired, pre-aligned FM Front End.
- Adaptable to FM Multiplex.

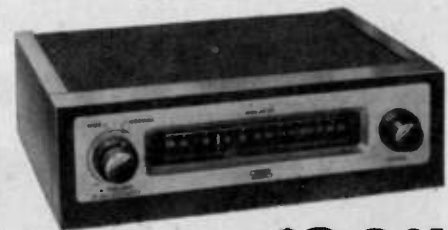
**\$89<sup>95</sup>**

Superb, advanced designed FM-AM Stereo Tuner with handsome new decorator styling. Features a pre-wired, pre-aligned FM front end completely shielded in a die-cast housing and pre-wired and pre-aligned FM and AM IF strips. "Eye-Tronic" traveling tuning indicators contract into an "exclamation point" at the exact center of each broadcast channel. \*Instantly adaptable to FM multiplex (see below right).

FM section includes switched AFC, AGC, stabilized low limiting threshold for excellent performance from weaker signals and broad-band ratio detector for improved capture ratio and easier tuning. Sens.: 1.5 uv for 20 db quieting; Selectivity: 250 KC IF bandwidth (6 db down); Freq. resp.: 20-15,000 cps  $\pm 1$  db; Image rejection: 40 db; Hum level: 60 db down; Drift: less than 2 parts in 10,000 from cold start; Tuning range 87.5-108.5 mc. Output level 2.5 V for 100% modulation.

AM Section features include tuned RF stage, switched "broad" and "narrow" band-pass, high Q 10 KC whistle filter, and built-in ferrite loop antenna. Both sections have slide-rule dials with effortless flywheel tuning, very low interstation noise, high output at low impedance. Sensitivity: 3 uv for 1.0 V average output at 20 db S/N ratio; Selectivity: overall IF of 18 KC at "broad-band-width", 9 KC at "narrow bandwidth", 6 db down; Freq. response: 20-9000 cps on "wide bandwidth." Image rejection: 60 db; Hum level 60 db down; Drift: negligible; Tuning range 540 to 1650 KC; Output level 1.0 V. average. Overall size 15 7/8" wide x 5" high x 14" deep.  
 No. 30A265. ST96 Kit with Metal Enclosure, Net Each. **\$89.95**  
 No. 30A266. ST96, Factory Wired.....\$129.95

## EICO HFT94 AM TUNER KIT



- Ideal for AM reception even in the remotest areas, makes a perfect match for the HFT90 FM Tuner. Features a choice of wide bandpass
- \$39<sup>95</sup>**  
 Complete Kit

to 14 KC for Hi-Fi or narrow bandpass of 7 KC for more distant stations. Has TRF stage for high sensitivity. Effortless fly-wheel tuning, tuning eye indicator, and slide-rule dial allows easy accurate station selection. All RF and IF coils are pre-aligned at the factory. Freq. response 20-9,000 cps (wide band), 20-5,000 cps (narrow band). Hum level 60 db below output. Tube complement: 2-6BA6, 1-6BE6, 1-12AU7/ECC82, 1-DM70, 1-6X4, 1-CK885 diode. Size 3 3/8" high, 12" wide, 8 1/4" deep. Shpg. wt. 14 lbs.  
 No. 30A85. HFT94 Kit Complete with Metal Cover, Net Each. **\$39.95**  
 30A175. HFT94 Factory Wired. Net Each.....\$65.95



## NEW EICO MX99 MULTIPLEX ADAPTOR

Provides entirely automatic stereo/mono reception from all Eico FM tuners. (HFT-90, HFT92, ST96) or other quality FM tuners using ratio detectors and with multiplex output connections. Indicator lamp turns on when station selected is broadcasting multiplex stereo. Provides better than required suppression of all spurious signals, extremely essential for high quality multiplex reception. Controls are MX: off-on. Power: off-on and variable separation control. Operates from 115 V. 60 cycle AC. Size 9 1/8" W, 6 3/8" D, 3 7/8" H.  
 No. 30B38 MX99 Kit, Net.....\$39.95  
 No. 30B39 MX99 Wired, Net.....\$64.95

# SAVE UP TO 50%—BUILD THESE TOP-MAKE HI-FI KITS



## 12-WATT HIGH FIDELITY FLAT DESIGN AMPLIFIER KIT



**\$34<sup>95</sup>**

- Built-in Preamplifier Equalizer and Control Section.
- Beautiful Styling.
- Easy to Build.

Compact, modern design provides a complete 12 watt high-fidelity amplifier with built-in preamplifier. Completely controllable equalization for direct tape head and magnetic phono inputs with NARTB (Tape) and RIAA (Phono) feedback equalizations.

Features 6 tube circuit, dual triode for variable turnover bass and treble feedback-type tone controls. Output power: 12 watts continuous, 25 watts peak. Intermodulation distortion, 1.5% @ 12 watts, .55% @ 6 watts, .3% @ 4 watts. Frequency response: 1 watt  $\pm$  .5 db 12-50,000 cps; 12 watts  $\pm$  .5 db 25-20,000 cps. Harmonic distortion: 20 cps 2% @ 4.2 watts; 1/2% @ 2.5 watts; 30 cps 2% @ 11 watts, 1/2% @ 6.3 watts; 40 cps: 1% @ 12 watts; 1/2% @ 9.3 watts; 2000 cps: 1/2% @ 12 watts; 10,000 cps: 1% @ 10 watts, 1/2% @ 60 watts. Transient response: excellent square wave reproduction (4 usec rise-time); negligible ringing, rapid settling on 10 KC square wave. Inverse feedback: 20 db. Stability margin: 12 db. Damping factor: above 8, 20-15,000 cycles. Speaker connections: 4, 8, 16 ohms. Tone control range: @ 10,000 cycles  $\pm$  13 db; @ 50 cycles  $\pm$  16 db. Tube complement: 3-ECC83/12AX7, 2-EL84, 1-EZ81. Size 3 3/8" x 12 x 8 1/4". Wt. 13 lbs.

Complete with all necessary parts and easy to follow step-by-step instructions.

No. 30B221. HF12 Kit With Metal Cover.

Net Each.....

**\$34.95**

No. 30B222. HF12. As above, factory wired and tested. Net Each.....\$57.95

## GROMMES 10-WATT HI-FI AMPLIFIER KIT

**\$24<sup>45</sup>**

- Rated No. 1 in its Field by a National Magazine.
- Full 10 Watts output.
- Simple to build for anyone.



The famous Grommes "LJ" 10 Watt Music Lover's Amplifier in kit form... with easy-to-follow assembly and wiring instructions, so simple that anyone can complete it.

Acclaimed the most popular Hi-Fi Amplifier in its price class and featured by a national magazine as the best buy in its field.

Specifications: Power output 10 watts - 15 watts peak. At 10 watts output distortion is 2% harmonic and 3% intermodulation. Frequency Response  $\pm$  1 db from 20 to 20,000 cps at room level.

Hum and noise rated 80 db below output. Has three inputs; Radio, RIAA Magnetic and Crystal Phono and Microphone. Has 12 db negative feedback, Bass control for flat up to 15 db boost, Treble control for flat up to 18 db attenuation, .5 volt input sensitivity for Radio, tape or crystal phono. Output impedances 4-8-16 ohms.

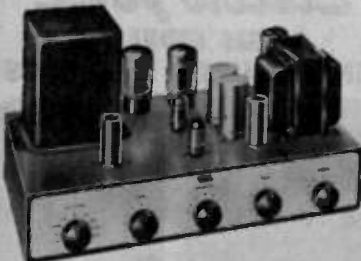
Tube complement: 2-12AX7, 2-6V6GT, 1-6X5. With convenient AC accessory outlet. Chassis is charcoal grey and brass finish, size 10x6x6. For 110-120 V. 50-60 cy. AC operation. Shpg. wt. 11 lbs.

No. 33A168. Model LJ6K Kit with Tubes. Net Each.....

**\$24.45**

No. 33A169. Model LJ7-XC, Factory Assmbl'd., Ready to Operate. \$39.50

## EICO HF-20 20-WATT HIGH FIDELITY AMPLIFIER KIT



ULTRA LINEAR WILLIAMSON TYPE

Exceptional quality Ultra-Linear Williamson type Amplifier to please the most critical enthusiast. Complete with preamplifier, equalizer, and control section—all in a single unit. Ready to wire and assemble with easy-to-follow instructions.

Specifications: 20 watts continuous, 34 watts peak power. Mid-band harmonics distortion only 0.3%. Freq. response:  $\pm$  0.5 db 13 to 35,000 cps. Sensitivity: Phono Input (magnetic) 4 millivolts; Tuner, TV, Tape 0.4 volts. Hum level: Mog. phono 60 db below rated output. Preamplifier-equalizer circuit uses feedback equalization for extremely low distortion. Five equalization positions plus separate non-interacting treble and bass controls compensates for the various foreign and domestic record characteristics. Loudness control changes volume in accordance with ear-response curve.

Six inputs—2 low level for magnetic pickups, 4 high level for crystal pickups, tuners, tape recorders, TV, etc. Speaker output impedances: 4, 8, 16 ohms. Low impedance output provided for tape recorder with all controls effective except loudness. Has control for balancing out 60 cycle hum, and two AC outlets with one controlled by off-on switch. Tube complement: 2-12AX7, 1-6SL7, 2-6L6GB, 1-5V4GB. Handsomely styled with removable panel for cabinet mounting. Size 8 1/2" H, 15" W, 10" D. Operates an 110-120 volts 60 cycles AC. Shpg. wt. 24 lbs.

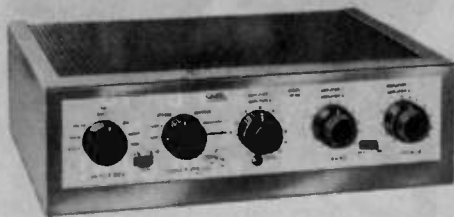
No. 30B214. HF20 Kit with Tubes, \$49.95

Net Each.....

No. 30B215. HF20, Factory Assembled, \$79.95

ready to use.....

No. 30A220. Model E-1, Matching Cover.....\$4.50



## EICO STEREO DUAL PREAMPLIFIER KIT

Now two precision engineered separate preamplifiers in one unit simplify the controlling of any two power amplifiers in a stereophonic system. Each preamplifier has separate bass and treble tone controls and separate balance control for setting volume of each power amplifier to proper level. Independent level controls designed to operate as single master control for easy setting of overall volume to proper room listening level.

Features: complete control of any stereophonic program source, tape, discs, or broadcasts; 3 low level inputs to each channel for mog. phono, tape head, and microphone. Front panel switch for proper NARTB tape head equalization for 7 1/2 and 15 or 3 3/4 ips tape speeds. Separate high level inputs for AM tuner, FM tuner, and FM multiplex, plus two auxiliary inputs on each channel. Input selector switch on front panel for feeding FM tuner output to one channel and AM tuner to other or FM tuner to one channel and FM multiplex adapter to other.

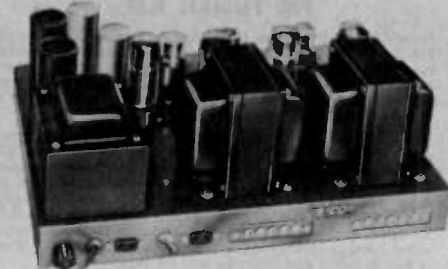
Stereo channels may be reversed. Either channel may be operated monaurally if desired. Frequency response  $\pm$  0.3 db 5-200,000 cps at any level up to 3 volts RMS output. Hum, IM and harmonic distortion practically non-measurable. Tube complement: 5-12AX7/ECC83 and 1-6X4. Size 3 3/8" high, 12" wide, 8 1/4" deep. Wt. 12 lbs.

No. 30A91. HF85, Pre-Amp Kit

with Metal Cover, Net Each.....

No. 30A92. HF85, Factory Wired, Net Ea.....\$64.95

**\$39.95**



## EICO HF87 70-WATT STEREO POWER AMPLIFIER

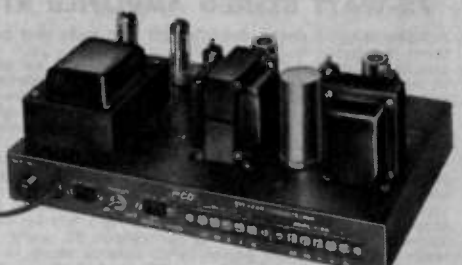
- 35 Watt Stereo—70 Watt Monaural.
- Push-Pull EL34 output.
- Frequency response  $\pm$  .5 db 5-100,000 cps.
- Exceptional regulated power supply.
- Silicon diode rectifiers.

All of Elco's traditional quality and precision engineering have been combined to produce the finest power amplifier regardless of price. The intrinsic quality of all components is so high that far less feedback is required to maintain extremely low distortion, resulting in unbelievable stability margins. A perfect mate for the HF85 stereo preamplifier listed left. Each channel is conservatively rated at 35 watts, obtained by using a direct-coupled voltage amplifier stage driving cathode-coupled phase inverter coupled to ultra-linear, self-biased, push-pull EL34 tubes. The common power supply employs silicon diode rectifiers and a current-limiting surgeistor for exceptional regulation. Can be used as 70 watt monaural amplifier if desired. Frequency response 5-100,000 cps  $\pm$  .5 db. IM and harmonic distortion less than 1% at 70 watts. 55 db channel separation. Hum level better than 90 db below full output. Speaker connections 4, 8, 16 and 32 ohms. Tube complement: 1-ECC83/12AX7, 2-6SN7GTB, 4-EL34, 2 silicon diodes, 1 surgeistor. For 117 V. 60 cycle AC only. Size 15 x 11 x 6". Shpg. wt. 35 lbs.

No. 30A42. HF87K Kit, Net Each.....

**\$74.95**

No. 30A53. HF87, Factory Wired, Net Ea.....\$114.95



## EICO HF86 28-WATT STEREO DUAL POWER AMPLIFIER

- 14 Watts Stereo—28 Watt Monaural.
- Frequency Response @ 2 Watts  $\pm$  .5 db 10 cycles to 100,000 cycles.
- Williamson Type Circuit.
- All parts operate below their ratings to insure long life.

Designed for use with the HF85 Stereo Preamp or any self-powered quality preamp. Conservatively rated at 14 watts each channel output and employs a Williamson type circuit with push pull EL84 output stages. The two amplifiers may be operated in parallel to deliver 28 watts of monaural power. Paralleling of inputs accomplished by single switch.

Features a level control at each input, an AC power switch, two convenience outlets and fused line. Frequency response  $\pm$  5 db 10 cycles to 100,000 cycles at 2 watts. IM distortion 1.5% at 28 watt (14 watt each). Harmonic distortion less than 1% from 30 to 15,000 cps. Inverse Feedback: 20 db. Transient Response: Excellent square wave reproduction (4 usec rise time); negligible ringing rapid settling on 10 kc square wave. Sensitivity 1.15 V. for 14 W output. Hum 90 db below rated output. Speaker connections: 4, 8, 16 and 32 ohms. Controls: level Ch. 1 level Ch. 2, "service selector" switch, on-off switch. Tubes: 2-12DW7, 4-EL84, 2-EZ81. Operates from 117 V. 60 cycle. Size 5 1/2" x 13 1/2" x 9". Shpg. wt. 16 lbs.

No. 30A2. HF86K Kit, Net Each.....

**\$43.95**

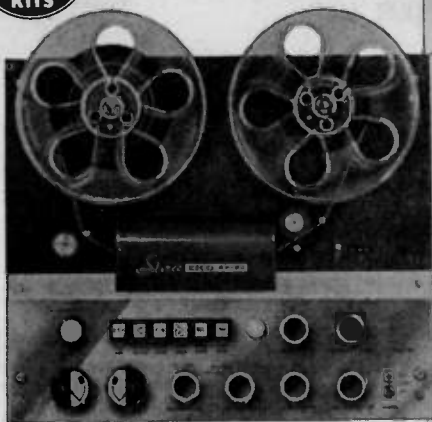
No. 30A3. HF86 Factory Wired, Net Each.....\$74.95

No. 30A4. E-7 Cover for above. Net Each.....\$3.95





# NEW EICO STEREO/MONO 4-TRACK TAPE DECK



**ALL MAJOR FUNCTIONS  
ARE OPERATED BY SIMPLY  
TOUCHING A BUTTON**

## SEMI-KIT MODEL RP100K

**\$299<sup>95</sup>**

Includes Completely  
assembled and  
Tested Tape Trans-  
port. Only Elec-  
tronics in Kit Form.

**BUY ON EASY TERMS**

## WIRED MODEL RP100W

**\$399<sup>00</sup>**

Hand - Wired  
Throughout by  
Skilled American  
Craftsmen.  
READY-TO-USE

A professional deck complete with record and playback pre-amplifiers priced below the cost of comparable units. Provides such important features as monitoring while signal is being recorded, recording 4 track stereo for a full hour of stereo on a 1200' reel at 7 1/2 ips or two full hours at 3 3/4 ips. Records up to 2 full hours of high fidelity monoaural on a single 1200' reel at 7 1/2 ips or 4 hours at 3 3/4 ips (4 tracks—one at a time). Permits addition of your own vocal or instrumental to professionally recorded backgrounds. Make sound on sound recordings. Perfect for language study. Will provide years of trouble-free service. Assures perfect pitch and timing accuracy necessary for studio, professional and musical study use, through use of hysteresis synchronous capstan motor.

**Specifications:** speeds 7 1/2 and 3 3/4 ips, jamproof speed shift. **Max reel size:** 7 inches. **Tape loading:** sweep type for rapid, easy threading. **Winding time:** 1200 ft. per minute. **Wow and flutter:** 0.2% RMS at 7 1/2 ips, 0.25% RMS at 3 3/4 ips. **Timing accuracy:** ±0.15% (±3 sec. in 30 minutes). **Start and stop:** practically instantaneous (electrical). **No slack on stop.** **Playback freq. resp:** ±2 db 30-15,000 cps at 7 1/2 ips, 55 db \*signal-to-noise ratio, ±2 db 30-10,000 cps at 3 3/4 ips, 50 db \*signal-to-noise ratio. \*With signal recorded 12 db below saturation.

**Playback/Monitor Outputs:** approximately 1.0 volt at 5000 ohms output impedance. **Microphone inputs sensitivity:** .5 mv (suitable for dynamic mikes with low-Z output connection). **Line inputs sensitivity:** 100 mv. **Sound-on-sound recording:** requires no change in input connections. **Electronics:** 2 playback amplifiers (2x3 transistors), 2 microphone preamplifiers (2x2 transistors), 2 line recording amplifiers (2x2 transistors). One push-pull bias-erase oscillator, approximately 70 KC (1-6BX7GT), one full wave rectifier, (1-6x4) for bias erase oscillator power supply, one power pack incorporating selenium bridge rectifier for DC solenoid and brakes and selenium full-wave rectifier for amplifiers. **Meters:** 2 for stereo recording, 1 in each recording channel. **Heads:** 1 stacked 1/4 track erase head, 1 stacked 1/4 track record head (wide gap), 1 stacked 1/4 track playback/monitor head (narrow gap). **Motors:** 1 hysteresis synchronous capstan motor, 2 custom reel motors, high-torque 4 pole induction type.

Brown and pale gold finish. Size 15 7/8" W, 13 1/8" H, requires 1 1/2" above decorative panel and 6 1/2" below decorative panel. wt. 32 lbs. **\$299.95**  
No. 30B50. Kit, Net Each. **\$399.00**  
No. 30B51. Factory Wired, Net Each.

## NEW H. H. SCOTT STEREO AMPLIFIER AND FM TUNER KITS

SAVE \$ \$ \$  
BUILD YOUR OWN



**\$159<sup>95</sup>**



**\$99<sup>95</sup>**

### 72-WATT STEREO AMPLIFIER KIT

An easy-to-build stereo amplifier kit that locks and performs like factory-built units. Beautifully designed, perfectly engineered, and so easy to wire that you can't go wrong. In just a few evenings you can build a professional 72 watt H. H. Scott stereo amplifier. . . one so good it challenges factory-assembled units in both looks and performance. Costs less than many lower power amplifier kits.

Comes in exclusive Kit-Pak container which unfolds to a self-contained work-table. All wires are pre-cut and pre-stripped. Parts are mounted on special cards in the order you use them. All mechanical parts are pre-riveted to the chassis. Hard work is all done, but the fun's left for you! **Technical specifications:** Full power output: 72 watts, 36 watts per channel. IHF power bands extends down to 20 cps. Total harmonic distortion: (IKC) and 0.4% at full power. Amplifier hum level: better than 70 db below full power output. Tubes 4-7591 output tubes, 2-7199, 4-12AX7, 1-5AR4. Weight of output transformer 12 lbs. Amplifier stable under all loads including capacitive. Dimensions in accessory case: 15 1/2" W, 5 1/4" H, 13 1/4" D. Size and styling matches H. H. assembled or kit tuner. Shpg. wt. 22 lbs. No. 31A162. **\$159.95**

Net.....

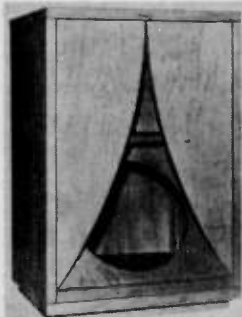
### FM TUNER KIT

Now for the first time H. H. Scott's famous Wide-Band FM Tuner in Kit form. Works like a factory aligned tuner giving greater selectivity and sensitivity than ever before possible. Features the very same silver plated front end, used exclusively in H. H. Scott's factory-assembled tuners.

Requires no special tools or test equipment. . . front end comes completely pre-wired and pre-aligned. All additional alignment that needs to be done is done simply with the tuner's own meter. All parts such as tube sockets and terminal strips are professionally pre-riveted to the chassis. . . wires are pre-cut, stripped and tinned. Only the pleasure is left for you—the hard uninteresting work is done. Truly a kit that is fun to build and one you will be proud to own.

Lab. specs: useable (IHF) sensitivity 2.5 uv.) Signal: noise ratio 60 db below 100% mod. Harmonic distortion 0.8%. Drift .02%. Freq. resp. 30-15,000 cps ± 1 db. (IHF) measurements are made in the range of 30-15,000 cps. The unit actually has far wider frequency range than shown here). Size 15 1/2" W, 5 1/4" H, 13 1/4" D. Shpg. wt. 12 lbs. **\$99.95**  
No. 31A161. Net.....

## KARLSON SPEAKER ENCLOSURE KITS



FOR 8-IN. SPEAKER

**\$18<sup>23</sup>**

IF FACTORY  
ASSEMBLED WOULD  
COST \$42.00

**SAVE  
OVER 50%  
ASSEMBLE IT  
YOURSELF**

**ACTUALLY BETTER THAN A HORN  
ENCLOSURE 30 FT. LONG AND  
12 1/2 FT. IN DIAMETER AT THE MOUTH**

New basic acoustic principle provides speaker performance never before thought possible in such a compact unit. Accommodates any single-cone, coaxial or triaxial speaker of user's choice. Provides a smooth non-resonant, distortion free response 16 to 20,000 cps with uniform dispersion over entire room. Consists of 34 precision pre-cut pieces all ready for simple assembly. Side panels are routed out to exactly fit the internal construction. Assures the entire structure being vibration-free and non-resonant. 12 and 15" kits have exterior of 3/4" unfinished natural birch plywood with matching trim. 8" kit made of 1/2" unfinished natural birch plywood with matching trim.

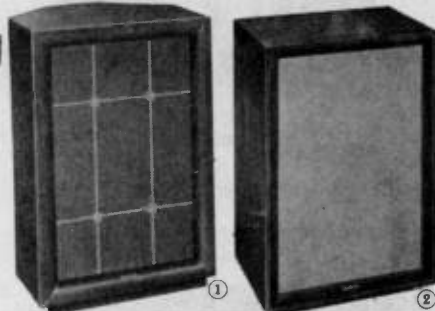
For 8" Speaker. Size 17 1/4 x 11 3/4 x 9 3/4". If factory assembled \$42.00. Shpg. wt. 20 lbs. **\$18.23**  
No. 40B223. Net Each.

For 12" Speaker. Size 24 3/4 x 16 3/4 x 13 3/4". If factory assembled \$97.61. Shpg. wt. 45 lbs. **\$41.16**  
No. 40A221. Net Each.

For 15" Speaker. Size 34 x 22 x 18". If factory assembled \$126.42. Shpg. wt. 90 lbs. **\$55.86**  
No. 40A222. Net Each.

## Electro-Voice

**HIGH FIDELITY  
ENCLOSURES AND KITS**



**SAVE UP TO 1/2  
BY BUILDING  
YOUR OWN!**

SAVE MONEY and HAVE FUN TOO by building your own high fidelity speaker enclosure. These superlative, completely engineered kits are styled and designed to provide the same fine quality of appearance and performance as the popular E-V preassembled units. Enables you to have at lowest cost, enclosures that will bring out the very best performance qualities of any speaker or speaker system (all models will accommodate 2 or 3 way systems). Hardwood exteriors assure durability and permit finishing like fine furniture.

**EASY TO ASSEMBLE.** All wood parts are pre-cut. Glue, nails and screws are included. Derailed step-by-step instruction book supplied with each kit.

### ① MODEL KD6 THE ARISTOCRAT KIT

Popular Deluxe 12" corner folded-horn model. Size 29 5/8" H, 19" W, 15 3/4" D. Complete with grille cloth. Shpg. wt. 44 lbs. **\$38.22**  
No. 40A261. Net Each.  
Factory Preassembled and Finished. **\$70.56**  
No. 40A169. Mahogany. Each. **\$77.42**  
No. 40A170. Blonde. Each. **\$77.42**  
No. 40B146. Walnut. Each. **\$77.42**  
Brass grille trim for Aristocrat (as in photo).  
No. 40A304. Model AK6. Net Each. **\$4.70**

### ② MODEL KD9 THE MARQUIS KIT

Deluxe 12" along-the-wall model. Size 29 5/8" H, 19" W, 14 1/2" D. Complete with grille cloth. Shpg. wt. 44 lbs. **\$35.28**  
No. 40A69. Net Each.  
Factory Preassembled and Finished. **\$61.74**  
No. 40A73. Mahogany. Net Each. **\$67.62**  
No. 40A75. Blonde. Net Each. **\$67.62**  
No. 40A81. Walnut. Net Each. **\$67.62**

# SAVE EVEN MORE! LOW COST BIG \$\$\$ VALUE KITS



## WILLIAMSON TYPE 12-WATT HIGH FIDELITY AMPLIFIER KIT

NOW AT LOWEST PRICE EVER!

- Easy to build step-by-step instructions.
- Special design output transformer.
- Quality parts.

**\$19<sup>97</sup>**



A fabulous value specially priced to save you money! Never before has B-A been able to offer a complete 12-watt amplifier kit with built-in preamplifier for magnetic phonos or tape inputs at this low price. The advanced circuitry incorporates the latest miniature tubes for low noise and hum, and features a special design Williamson type output transformer multi-tapped at 4, 8 and 16 ohms to match the speaker system of your choice.

Four front panel controls include Loudness, Selector switch for instant selection of four (4) Inputs; Magnetic phono or tape, crystal phono, tuner/radio, and mike or auxiliary. Separate full range Bass and Treble controls for adjustment of highs and lows to suit the listener.

The amplifier features a powerful advanced beam power push-pull output circuit, self balance phase inverter system, full range tone control and feedback circuit.

Specifications: Power output 12 watts. Frequency response 20-20,000 cycles  $\pm$  1 db. Distortion: 1% at rated output. Output impedances: 4, 8 and 16 ohms. Tube complement: 1-12AX7/ECC83, 1-12AT7, 2-6V6. Controls (4): Function, Loudness, Bass, Treble/Power switch. Convenience outlet on rear of chassis controlled by power switch. Power consumption 55 watts. 117 volts AC, 50-60 cycles. Size 11" W. x 7" D. x 5" H.

No. 31A151.- "Qual-Kit" 2200 Kit, Special Each..... **\$19.97**  
No. 31A152.- Metal Cover for above. Net Each..... **\$3.95**

## NEW "QUAL KIT" 30-WATT STEREO AMPLIFIER KIT

- Williamson Type Circuit.
- Exclusive Balance Blend Control.
- Quality Components Throughout.
- 9 Front Panel Controls.
- Frequency Response  $\pm$  1 db. 20-20,000 cycles.

**\$39<sup>95</sup>**



All the costly features at the lowest price we've seen! Features the famous Williamson-type circuit with quality components in an easy to build design. The truly professional results when constructed make this an Amplifier you will be proud to own. New exclusive "Balance-Blend" control balances and blends both channel signals together to eliminate the hole-in-the-middle effect. Separate bass and treble controls for each channel permit complete flexibility of adjustment for desired listening quality. Kits include all necessary parts with step-by-step instructions.

Specifications: 15 watts each channel output. Harmonic distortion: less than 1%. Hum: 80 db below rated output. 8 inputs (4 dual); tape/low impedance phono, high impedance phono (ceramic, crystal), tuner, high impedance tape/auxiliary. Outputs: dual tape, 4, 8, 16 ohm speaker. Tape equalization: NARTB. Record equalization: RIAA. Front Panel Controls: (9) function selector, balance-blend, dual ganged loudness, separate bass, treble, treble/power, mode (reversing), equalization. Selector Switch: tape/la phono, hi phono, tuner, hi tape/aux. Mode Switch: stereo reverse, stereo normal. Equalization Switch: phono, tape. Size 14" W, 8" D, 6" H. Finished in baked brown Hammetone. Luxury multi-color front panel. Tube complement: 2-12AX7/ECC83/7025, 4-7408, 2-12AT7/ECC81, 5U4 rectifier. For 115V. 50-60 cps. Shpg. wt. 18 lbs.  
No. 31A136. Model STA24 Kit. Net..... **\$39.95**



**\$19<sup>95</sup>**

### HI-FI AM TUNER KIT

A sparkling new concept in high fidelity AM tuners, yet realistically priced to fit everyone's budget. This excellent unit assures the listener the finest reproduction in AM sound. Extended frequency range covers 20 to 8000 cps for reception of high fidelity broadcasts. New detector circuit insures minimum distortion even at high modulation. Perfectly matches Model 1100 FM Tuner (at right) for quality AM-FM stereo operation. Powerful 4-tube superhet circuit (plus selenium rectifier) plus AFC gives maximum selectivity and sensitivity over entire broadcast band. Other features include ferrite loopstick antenna, smooth counter-weight flywheel tuning, indirectly-illuminated slide rule dial with logging scale, 24 page easy-to-read instruction book.

Specifications: Frequency response—20-8,000 cps  $\pm$  3 db; Frequency range—540-1650 KC. Sensitivity—25 uv; Selectivity—8 KC bandwidth; harmonic distortion—below 1% up to 80% mod.; Hum level—60 db below 100% mod.; Output level—1 volt, high imp. Power consumption 25 watts on 105-125 volt AC. Tube lineup: 2-6BA6, 1-6BE6, 1-6AL5, 1-selenium rectifier. 3 color front panel is mahogany, ivory and gold. Dimensions: 10 $\frac{3}{4}$ " W. x 4" H. x 8" deep. Shpg. wt. 8 lbs. Less cover and legs.

No. 31A149.- "Qual-Kit" Model 1200 AM Tuner Kit, Net Each..... **\$19.95**  
No. 31A150.- Cover only & Hollywood Legs..... **\$5.95**



**\$25<sup>50</sup>**

### HI-FI FM TUNER KIT

A truly outstanding quality tuner for a minimum of cost, using the most advanced design features of the engineer's art. The Armstrong FM circuit utilizes a balanced Foster-Seeley Discriminator and limiter with a 75 u-sec. deemphasis circuit. Perfect match for Model 1200 (at left) AM Tuner, giving superb high fidelity stereo broadcasts for less than the cost of any other single unit tuner kit.

Other deluxe features include full AFC to eliminate FM station drift, low noise front end using grounded grid triode amp section and separate triode oscillator, smooth counter-weighted flywheel tuning, and indirectly illuminated slide rule dial. Specifications: Frequency response 20-20,000 cps  $\pm$  5 db; Range 88-108 MC; FM drift  $\pm$  5 kc max.; Sensitivity 5 uv for 20 db quieting; Selectivity 200 KC bandwidth 6 db down. Distortion, less than 1%; Hum level 60 db below 100% modulation; Output level 2 $\frac{1}{2}$  volts for 100% mod.; Power consumption 30 watts at 100-125 volts AC. Tube line-up: 2-12AT7, 1-6BA6, 2-6AU6, 1-6AL5, 1-sel. rectifier. Three-color front panel is mahogany, ivory and gold. Controls: control selector with AFC defect switch; and tuning control. Dimensions: 10 $\frac{3}{4}$ " W x 4" H x 8" deep. Shpg. wt. 8 lbs. Less cover and Hollywood legs.

No. 31A147.- "Qual-Kit" Model 1100 FM. Tuner Kit, Net Each..... **\$25.50**  
No. 31A148.- Cover and Hollywood Legs..... **\$5.95**



**\$31<sup>85</sup>**

### NEW AM-FM TUNER KIT

Unmatched in its price class for beauty and performance. Superbly engineered with such costly features as counter-weight tuning with built-in AFC defeat switch, advanced AFC circuitry preventing drift when selected station is locked in, temperature-compensated oscillator circuit an additional aid in preventing drift.

Powerful 7 tube plus selenium rectifier circuit has Armstrong FM circuit with Foster-Seeley discriminator! The AM section features a superheterodyne circuit with AVC and powerful Ferrite loopstick antenna.

Specifications: Freq. resp. FM  $\pm$  5 db. 20-20,000 cps; AM 3 db 20-5,000 cps. Freq. range FM 88 to 108 MC, AM 540 to 1650 KC. FM drift:  $\pm$  5 KC maximum. Sensitivity: FM 5 UV for 30 db quieting, AM 25 UV. Selectivity: FM 200 KC bandwidth, AM 8 KC bandwidth. Distortion: less than 1% on FM. Hum level: 60 db. Output level FM 2 volts for 100% mod. AM 1 volt. Controls: Off-AM-FM, tuning with AFC incorporated. Operates on 105-125 volt 60 cycles AC. Size 10 $\frac{3}{4}$ " W, 4" H, 8" D. Front panel ivory and gold. Chassis, bright copper color. Tube complement: 2-12AT7, 6BE6, 6BA6, 2-6AU6, 6AL5. Complete with 20 page construction book (less cover and legs). Shpg. wt. 9 lbs.

No. 31A134.- "Qual-Kit" Model 1000 AM-FM Tuner Kit, Net..... **\$31.85**  
No. 31A135.- Mahogany Cover & Hollywood Legs for above..... **\$5.95**



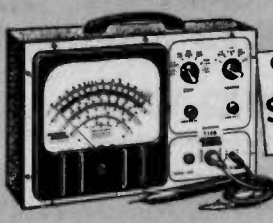
# SAVE \$\$\$! BUILD YOUR OWN EICO TEST INSTRUMENTS



**MODEL 232**  
COMPLETE KIT  
**\$29<sup>95</sup>**  
FACTORY WIRED  
**\$49.95**



## PERFORMANCE PROVEN VTVM



**MODEL 249**  
COMPLETE KIT  
**\$39<sup>95</sup>**  
FACTORY WIRED  
**\$59.95**



**MODEL 255**  
COMPLETE KIT  
**\$44<sup>95</sup>**  
FACTORY WIRED  
**\$72.95**



**MODEL 221**  
COMPLETE KIT  
**\$25<sup>95</sup>**  
FACTORY WIRED  
**\$39.95**

### MODEL 232 PEAK-TO-PEAK VTVM

WITH 4 1/2 INCH METER AND SWITCHING TYPE UNI-PROBE

Combines precision performance and advanced engineering found only in a VTVM selling for at least double this price. With dual purpose Uni-Probe, a half turn of Probe tip selects AC or DC function. Laboratory precision, professional quality, new engineering design, exceptional stability, 4 1/2 inch meter, can't burn-out circuit, adjusts to zero center, 1% multipliers. Measures directly p-p voltages of complex and sine wave. 0-4, 14, 42, 420, 1400, 4200 volts p-p. DC/RMS up to 1500 volts, (30,000 with high voltage Probe). Resistance 0.2 to 1000 Megs. in 7 ranges with no skip. Calibration without removal from cabinet. One zero center for all ranges. Frequency range to 3 MC (up to 250 MC with PRF Probe). Smartly styled gray cabinet, etched panel, contrasting knobs. Size 8 1/2 x 5 x 5" Wt. 7 lbs. For use on 117 V. 60 cycle AC.

**\$29.95**

No. 35A281. Model 232K-Build it Yourself Kit.....  
No. 35A282. Model 232. Factory Wired and Tested.....

### MODEL 249 DELUXE PEAK-TO-PEAK VTVM

WITH EASY TO READ 7 1/2 INCH METER

All functions are the same as Model 232 described above except Model 249 is equipped with a 7 1/2 INCH METER with the added convenience of easy-to-read large scales to permit fast accurate readings. Ideal for bench or laboratory use. Size 13x8 1/2 x 5" Wt. 9 lbs.

**\$39.95**

No. 35A283. Model 249K-Build it Yourself Kit.....  
No. 35A284. Model 249. Factory Wired and Tested.....

HVP-2 High Voltage Probe with 1090 meg. resistor. Use with Models 232, 249. Extends range to 30,000 volts. Wt. 1 lb.

**\$4.95**

No. 35A329. Factory Wired, ready to use. Net Each.....  
HVP-2 High Voltage Probe with 740 meg. resistor. Use with Models 221, 214. Extends range to 30,000 volts. Wt. 1 lb.

**\$4.95**

No. 35A286. Factory Wired, ready to use. Net Each.....

### NEW COMPACT DESIGN MODEL 255 AC VTVM

Highly stable wide band, high sensitivity unit with lab quality and accuracy. Responds to average value of applied wave and reads RMS value of sine wave. Measures AC voltage from 100 microvolts to 300 volts in 12 ranges. 0-1 and 0-3 scales are linear. Db scale based on 0 db = 1 MW in 600 ohms. Reads -80 to +52 db in 12 ranges. Frequency response  $\pm 0$  db. 10 C to 600 KC. 10 meg input impedance. Voltage ranges both RMS Millivolts and AC volts 0-1-3-10-30-100 and 300. Compactly housed in attractive gray cabinet 8 1/2 x 5 3/4 x 7" Wt. 7 lbs.

**\$44.95**

**\$72.95**

### MODEL 221 VTVM WITH 4 1/2 INCH METER

The most popular and reliable VTVM with a great record of dependable performance. Uses a stable double triode balanced bridge circuit with 1% multiplier resistors. Meter adjusts to center zero for discriminator alignment and operates in a can't-burn-out circuit. Ranges are: AC and DC volts, 0-5, 10, 100, 500, 1000 (extended to 30,000 with high voltage probe listed below). Ohms 0 to 1000 Megs db -20 to +55 in five ranges. Input resistance 25 Megs on DC, 3 Megs on AC, frequency response 20 to 200,000 cps. 9 1/2" high x 6" wide x 5" deep. Wt. 10 lbs.

**\$25.95**

**\$39.95**

No. 35B17. Model 221K  
Build-It-Yourself Kit.....  
No. 35A157. Model 221. Factory Wired and Tested.....

### ACCESSORY PROBES FOR EICO VTVM'S

PTP11K Peak-to-Peak Probe for Models 232 and 249 VTVM. 11 meg input. No. 35A285. Kit Form. Wt. 1/2 lb.

**\$4.95**

**\$3.75**

Net Each.....  
PRF11K RF Probe for Models 232 and 249 VTVM. 11 meg. input. No. 35B111. Kit Form. Accurate to 200 MC. Net Each.....

### EICO 460 WIDEBAND 5-INCH SCOPE WITH 5-MC BAND WIDTH AND DC AMPLIFIERS

**\$79<sup>95</sup>**  
KIT

FACTORY WIRED \$129.50



- Ideal for industrial research, and maintenance work, TV servicing.
- Surpasses in features and performance 'Scopes selling for many times the kit price.

Outstanding Features: Will provide distinct 3.58 MC sync. burst and 3.58 MC oscillator signals in color TV receivers.

- Band width DC to 4.5 MC useable to above 5 MC. • 4 step compensated attenuator, both AC and DC position.
- 25 millivolts per inch vertical sensitivity. • Built-in voltage calibrator.
- 6X horizontal expansion. • Push-pull vertical amplifier throughout. • Cathode follower input both in V and H.
- Voltage regulated vertical amplifier. • Automatic sync. limiter and amplifier.
- 10 cycles to 100 KC sweep frequency. • Intensity modulation, sawtooth output, 60 cycle test signal. • 60 cycle variable phase hor. sweep. Uses 5U1 CRT. Bezel will accommodate standard photographic equipment. Weight, 26 lbs. Size 13x8 1/2 x 16".

No. 35A335. Model 460K. **\$79.95**  
Build-It-Yourself Kit.....  
No. 35A336. Model 460. Factory Wired and Tested. Net Each..... **\$129.50**

### EICO 425 5-INCH SCOPE WITH PUSH-PULL AMPLIFIERS

**\$44<sup>95</sup>**  
KIT

FACTORY WIRED \$79.95



- For FM-AM-TV servicing! .05 to .1 rms volt-per-inch sensitivity. Wide range-plot from 5 cps to 500 kc with full gain setting—useful to 2 1/2 mcl
- Build-it-yourself, easily, in a few hours; complete easy to follow pictorial instructions and schematic diagrams furnished!

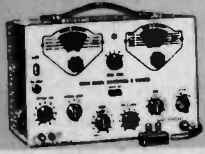
Important features include: • P.P. undistorted vertical and horizontal amplifiers. • Full-size 5" deflection. • Boosted range TV type multi-vibrator sweep generator for stable accurate sweep range of 15 cps to 75 kc. • Z axis intensity modulation. • Rear-of-cabinet connection to CRT plates. • Dual positioning controls move trace to any desired position on CRT tube screen. • Tubes used are: 3-6SN7, 2-6J5, 2-5Y3, 5BP1 CRT.

• Eico engineering minimizes external field interference. • 3-color etched, rubproof panel, heavy gauge steel case size 15" H x 8 7/8" W x 17 3/4" D; Wt. 29 lbs.

No. 35B44. Model 425-K **\$44.95**  
Oscilloscope Kit.....  
No. 35B63. Model 425, Factory-wired and tested..... **\$79.95**

**\$69<sup>95</sup>**

### EICO 368 TV-FM SWEEP GENERATOR AND MARKER



The most highly perfected sweep generator available for accurate alignment of FM-TV monochrome and color sets. Features: • Entirely electronic sweep circuit. • Excellent linearity on both sides of center frequency. • Uniform high level RF output through entire tuning range. • Highly accurate hairline dial with 6:1 vernier.

Frequency range and output: 3-6.5 MC, .3 volt RMS output; 6.5-16 MC, .4 volt RMS output; 14-36 MC, .35 vclt RMS output; 34-90 MC, .2 volt RMS output; 80-216 MC, .1 volt RMS output. Has variable frequency marker and a fixed frequency marker using 4.5 MC crystal (included with set), panel mount permits use of other crystals if desired. Has provision for using external marker. Attenuators for marker size and a step and variable attenuator for sweep and marker output. Sweep width 0-3 MC lowest maximum deviation to 0-30 MC highest maximum deviation. For 105 to 125 volts AC 50/60 cycles. Size 8 3/4 x 13 1/2 x 7 1/4". Wt. 16 lbs. Complete with output cable, scope horizontal cable and compensated scope vertical cable.

No. 35A382. Model 368K Complete Parts Kit. **\$69.95**  
Net Each.....  
No. 35A383. Model 368 Factory Wired and Tested. Net Each..... **\$119.95**

### SCOPE PROBE KITS

35A119. PSDK Demodulator probe, signal tracing. Range to 250 MC. **\$3.75**  
35A287. PDK Direct tracing in low Z circuits eliminates stray pickup. **\$2.78**  
35A288. PLCK Low capacity for waveform tracing wide-band circuits. **\$3.78**

### EICO 360 TV-FM SWEEP GENERATOR



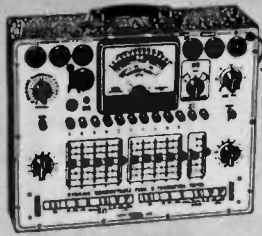
A "best-buy" in professional sweep-generators, packed with features: • Continuous sweep over range of 500 KC to 228 MC with extra high RF output on all ranges; RF shielded attenuator. • Variable mechanical inductive sweep width 0-30 MC with high accuracy; permits gain comparison of adjacent RF TV channels. • Variable amplitude, precision crystal-marker oscillator (5 mc crystal extra as listed below), with provision for injection of external marker signal. • Phasing control for signal trace adjustment. • Large Vernier Dial calibrated in TV Channel numbers and frequencies, plus 0-100 scale. Steel case size 10x8x6 3/4". Wt. 12 lbs.

No. 35A260. Model 360-K TV-FM Sweep Generator Kit..... **\$34.95**  
No. 35A259. Model 360. Factory Wired and Tested. Net..... **\$49.95**

PLUG-IN CRYSTALS FOR MODEL 360 OR 360 KIT YOUR CHOICE

No. 35A118. 5 MC Marker Crystal. **\$3.95**  
No. 15B47. 4.5 MC Marker Crystal. EACH.....

# NATIONALLY FAMOUS EICO KITS ARE YOUR BEST BUY



MODEL 666  
COMPLETE KIT  
**\$69<sup>95</sup>**  
FACTORY WIRED  
\$109.95



MODEL 536  
COMPLETE KIT  
**\$12<sup>90</sup>**  
FACTORY WIRED  
\$14.90



MODEL 556  
COMPLETE KIT  
**\$16<sup>90</sup>**  
FACTORY WIRED  
\$23.50

MODEL 625  
COMPLETE KIT  
**\$34<sup>95</sup>**  
FACTORY WIRED  
\$49.95



## MODEL 666 TUBE AND TRANSISTOR TESTER

Speedy-testing with unexcelled accuracy—Tests all TV and receiving tubes, also many special purpose types, as well as transistors. Tests color or black and white TV picture tubes with accessory adaptor listed below. Dynamic conductance tube test indicates the composite mutual conductance, plate conductance and peak emission capability of the tube by the application of properly selected plate, screen and grid voltage with highly accurate variable controls.

Sensitive 200 ua meter with five ranges. Extensive roll chart. Transistor test is two step, industry approved method for either NPN or PNP.

Leakage test measures up to 20 meg. Has accurate line voltage adjustment, etched aluminum panel, 4 1/2" clear plastic frame meter. Housed in gray wrinkle steel cabinet and cover, size 12x15x4 1/2". Weight 18 lbs. For 105-130 volts, 50/60 cycle AC. Picture tube adapters listed below.

No. 35A384. Model 666K Complete Parts Kit, Net Each. **\$69.95**  
No. 35A385. Model 666 Factory Wired and Tested, Net Each. **\$109.95**  
CRA-110 adapter for testing new 110° deflection picture tubes. **\$3.95**  
No. 35A536. Use with 666 or 625 tube tester. Net Each.

## MODEL 536 MULTIMETER 1000 O.P.V. AC-DC

Look at these handy RANGES: 0-1 AC/DC Lo-Volts; 0-5,000 AC/DC Hi-Volts, dual rectifiers for assured low and high AC voltage calibration! Complete ranges are, 0-1-5-10-50-100-500-5,000 AC/DC volts; Current, 0-1-10 ma., 0-1, 1-Amp. Ohms, 0-5000-100K, 1-Meg at new, low battery drain! DB: 6-ranges from -20 to +69 db. Uses precision dividing resistors. 400 micro-amp meter movement. Case is 6 1/2x3 3/4x2 3/4". Wt. 2 lbs.

No. 35A584. Model 536K Kit. **\$12.90**  
Net Each.  
No. 35A585. Model 536. Factory Wired, Net. **\$18.90**  
SAME AS 536 ABOVE BUT WITH 1% RESISTORS  
No. 35A205. Model 526K Kit. **\$13.90**  
Net Each.  
No. 35A206. Model 526 Factory Wired, Net. **\$18.90**

## MODEL 556 MULTIMETER 1000 O.P.V.

Features a large 4 1/2 inch Meter for more accurate readings. 1% precision resistors, 38 full scale ranges. AC or DC volts 0-1.5, 10, 50, 100, 500, 5000. AC-DC current 0-1, 10 MA; 0.1, 1 A. Ohms: 0-5000, 100 K, 1 Meg, 6 db ranges; -20 to +69. 400 Microamp Meter. Bakelite case 6 3/4x5 1/4x3". Wt. 3 lbs.

No. 35A279. Model 556K Complete Kit. **\$16.90**  
35A280. Model 556. Fact. Wired, ready to use. **\$23.50**

## MODEL 565 MULTIMETER 20,000 O.P.V.

HAS 20,000 O.P.V. SENSITIVITY—31 RANGES

(Same illustration as 556 above.) 4 1/2-inch, 50-micro-amp meter, hand calibrated and tested rectifier; easy-to-read, full scale ranges; DC/AC/Output Volts: 0-2.5, 10, 250, 1000, 5000. DC Current: 0-100-Micro-Amp., 0-10-100-500 MA, 0-10 Amp. Ohms: 0-2000, 200 K, 20 Meg, 5 D.B. Ranges, -12 to +55. Extra rugged construction. Case is 6 3/4x5 1/4x3", leather handle. Wt. 3 lbs.  
No. 35A203. Model 565K Parts Kit, Net. **\$24.95**  
No. 35A204. Model 565 Factory Wired, Complete, Each. **\$29.95**

## MODEL 625 TUBE TESTER

Tests AM-FM-TV Tubes 4,5,6, large and small 7, octal, loctal, noval, VR, and pilot bulbs! Twin grid caps, extra spare socket. Test CR picture Tubes with CRA Adapter listed below.

Illuminated, gear driven, "SPEEDROLL" CHART, "new" tube test settings free from factory on request! 6H6 rectifier! Lever-action switches for individual testing of every tube element; line voltage adjuster. 4 1/2" meter shows tube condition on replace-weak-good scale Plus zero to 1000 reference scale. Circuit overload panel indicator. Finest components throughout! 3-color etched rub-proof panel. Steel case 12 1/2x9 1/2x4 1/4". Wt. 12 lbs.

No. 35A120. Model 625K. **\$34.95**  
Complete parts kit.  
No. 35A121. Model 625. Factory Wired and Tested, Complete. **\$49.95**  
PICTURE TUBE ADAPTERS FOR BOTH 666 AND 625.  
No. 35A376. CRA Picture Tube Test Adapter, Net Each. **\$4.50**



MODEL 315  
**\$39<sup>95</sup>**  
FACTORY WIRED  
\$59.95

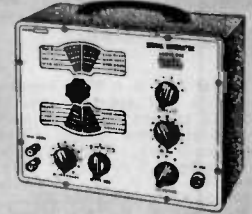


MODEL 320  
**\$19<sup>95</sup>**  
FACTORY WIRED  
\$29.95



MODEL 377  
**\$31<sup>95</sup>**  
FACTORY WIRED  
\$49.95

MODEL 324  
**\$26<sup>95</sup>**  
FACTORY WIRED  
\$39.95



## MODEL 315 DELUXE SIGNAL GENERATOR

Features: Extreme stability of oscillator circuit, band-spread vernier tuning (0-100 scale), illuminated pointer. Frequency range 75 KC to 150 MC. 7-separately calibrated scales—at accuracy of 1% or better on all ranges. 4-step, RF-shielded output multiplier, very low leakage. VR tube maintains accuracy regardless of line-voltage fluctuations. 400 cy. pure sine-wave audio, modulates RF, is AF attenuated for external use. Connections for external modulation. 3-color rubproof panel, heavy steel case is 13x12x7" Wt. 21 lbs.

35A117. Model 315K. **\$39.95**  
No. 35B48. Model 315 Factory wired and Tested, ready to use. **\$59.95**

## LOW COST MODEL 320 SIGNAL GENERATOR

- For FM-AM alignment, provides marker frequencies on TV!
- 150 kc-102 mc Hartley oscillator with fundamentals to 34 mc, harmonics to 102 mc!

Features: 5 step band switch, vernier type condenser; TV I.F.s. marked on scale. Selector switch for pure RF or pure 400 cy. AF. Colpitts audio oscillator. Continuous type shielded RF and AF attenuators. Steel case 10x8x4 3/4". 105-130 volt, 60 cy. AC. Wt. 10 lbs.

No. 35B31. **\$19.95**  
Model 320K Kit Complete  
35B42. Model 320, Factory wired. **\$29.95**

## MODEL 377 AUDIO GENERATOR

For servicing, testing and designing amplifiers, speakers, etc., used in Hi-Fi and public address systems. Uses Wlen Bridge oscillator circuit. Ranges; sine wave 20-200,000 cps, square wave 60-50,000 cps. Accuracy 3% or 1 cps, output 10 volts across 1000 ohms, constant output over wide frequency range. For use on 105-125 V. AC 50-60 cps. Gray wrinkle steel case 7 1/8x11 1/8x7 1/8". Wt. 14 lbs.

35A586. Model 377K Kit. **\$31.95**  
Net Each.  
No. 35A587. Model 377, Factory Wired and Tested. **\$49.95**

## MODEL 324 RF SIGNAL GENERATOR

A low priced, high quality generator with frequency range for servicing color and mono-chrome TV, FM and AM radio. Covers 150 KC to 435 MC, up to 145 MC on fundamentals. Quality and performance compare to the most expensive instruments. Specifications: RF output 100,000 microvolts; 400 cy. AF output 10 volts; 6 to 1 vernier dial; coarse and fine RF attenuators; Colpitts oscillator; external modulator amplifier; 50 ohm output. Gray wrinkle finished cabinet, 8x10x4 3/4". For 115-125 V. 50-60 cycle AC. Wt. 10 lbs.

35A331. Model 324K Kit. **\$26.95**  
Model 324. Factory wired ready to use. **\$39.95**  
35A330. Net Each. **\$39.95**

## MODEL 1140 RC NETWORK BOX

A series/parallel combination capacitor and resistance substitution box. Permits selection individually or any combination of the two, either in series or parallel. A valuable aid for TV, radio and audio servicing as well as laboratory and experimental work. Capacitors from .0001 to .22 mfd. and 1 watt resistors from 15 ohms to 10 megohm in standard RETMA values. 10% accuracy—600 volt rating. Size 6 3/4x5 1/4x3". Shpg. wt. 6 lbs.

35A582. Model 1140K. Cmpte. Kit, Net Ea. **\$13.95**  
35A583. Model 1140, Factory Wired & Tested. **\$19.95**

## 950B RESISTANCE-CAPACITY BRIDGE

A professional quality instrument for testing all resistance 0.5 ohms to 500 meg, and all types of condensers from 10 mmfd. to 5,000 mfd.! 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 comparator range—Bridge type circuit! Magic eye indicator tube. Size 10x8x4 3/4". Wt. 10 lbs.

35A142. Eico Model 950BK. Parts Kit, Net. **\$19.95**  
35A144. Model 950B Factory Wired, Net. **\$29.95**

## MODEL 147 DELUXE SIGNAL TRACER

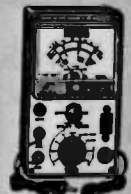
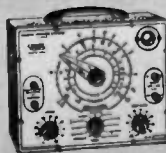
For RF-IF and audio signal tracing in TV, RF and AM receivers. Visual (with electron-ray tube), and aural (through loudspeaker), indication of the signal. High RF sensitivity permits signal tracing in tuner and IF section. Also checks phono crystals, microphones and gain per stage. Noise localizer detects noisy resistors, condensers, solder joints. One probe and ground lead serves for all functions. Size 8x10x5". Wt. 10 lbs.

No. 35A275. Model 147K Kit, Complete. **\$24.95**  
No. 35A276. Model 147 Factory Wired, Net. **\$39.95**

## MODEL 540 UTILITY TESTER

Low cost multi-range meter for locating defects in irons, fans, TV, radio, automobile batteries, etc. Measures AC or DC volts up to 300 volts, current up to 15 amps, resistance up to 1000 ohms. Neon lamp checks leakage, continuity, Kilowatt scale shows power consumption. Has good-bad reading for 6 or 12 volt storage batteries. Black bakelite case 3 1/4x6 1/2x3 1/2" with clear lucite meter. Weight 3 lbs. With operating instruction book.

No. 35A386. Model 540K. **\$12.95**  
Complete Parts Kit, Net.  
No. 35A387. Model 540 Factory Wired and Tested, Net. **\$15.95**







# BIG SAVINGS! BUILD RCA PRECISION INSTRUMENT KITS



**\$29<sup>95</sup>**  
KIT

FACTORY  
WIRED  
\$43.95

- Special transistor voltage ranges .25 and 1 volt.
- Fuse protection.



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KIT

FACTORY  
WIRED  
\$43.95

- World famous RCA VoltOhmyst circuit.
- Simply and quickly assembled.

FACTORY  
WIRED  
\$129.95

**\$79<sup>95</sup>**  
KIT

- Wide bandwidth.
- High gain.
- Compact-portable.



## RCA WV38A VOLT-OHM MILLIAMMETER

WV28A Multimeter. All new volt-ohm meter with exclusive .25 and 1 volt ranges required for transistor servicing. 20,000 ohms per volt DC and 5000 ohm per volt AC. Accuracy 3% DC, 5% AC. Full scale. • Eight DC and six AC ranges to 5000 volts. • 6 DC current ranges 0-50  $\mu$ a to 10 amps. Frequency response 10 cycles to 50 KC, useable to 500 KC. • 3 resistance ranges to 20 meg. • Polarity reversing switch. • Fuse protection. • Large 5 1/4" meter for easy reading. Bakelite case size 5 1/4 x 6 7/8 x 3 1/8". Shpg. wt. 4 lbs.  
No. 35A90. Model WV38AK Complete Easy to Wire Kit. Net Each **\$29.95**  
No. 35A89. Model WV38A. Factory Wired Complete. Net Each **\$43.95**

## RCA WV77E VOLT-OHMYST

Now you may own the most popular VTVM at a fabulous saving! Features: • Burn-out protection. • 11 meg input imp. • Ultra slim probes. • Lead storage in the handle. • Wide view 400 microamp meter. • 1% tolerance resistors. • Seven overlapping voltage ranges 0-1500 volts. • Peak-tapeak 7 ranges to 4000 volts. • Frequency response  $\pm$  5% to 5 MC. • 7 overlapping ohm meter ranges .2 to 1000 meg. • Zero center indication for discriminator alignment. Metal case shields against magnetic fields. Gray-blue finish. 7 3/4 x 5 5/8 x 4 3/4". Wt. 4 lbs. 115 volt operation.  
No. 35A289. Model WV77EK Complete Kit. Net Each **\$29.95**  
No. 35A71. WV77E. Factory Wired... **\$43.95**

## RCA W033A SUPER PORTABLE SCOPE

All purpose high-gain wide band 3 inch scope. • Highly accurate. • Measures peak-to-peak voltages. • Good stability. • Complete with shielded input cables and low capacitance probe. • Compact size. Ideal for the technician, ham or electronic engineer. Bandwidth — (narrow band position) 20 cps to 150 KC. (Wide band position) 5.5 cps to 5.5 MC. Ideal for TV service, audio testing of pickups, preamps, mikes, hi-fi equipment, industrial electronics, etc. Has brackets to hold power cord and cable. 6 1/2" W. x 8 3/4" H. x 10 1/4" D. Wt. 14 lbs.  
No. 35A91. W033AK. Complete easy to wire kit. Net Each **\$79.95**  
No. 35A92. W033A. Factory Wired... **\$129.95**

## EICO COMPACT PROFESSIONAL SERIES



**\$49<sup>95</sup>**  
KIT

MODEL 250  
AC VTVM  
AND  
AMPLIFIER



**\$49<sup>95</sup>**  
KIT

AC-VOLT-  
WATT  
METER

Model 250 is a high sensitivity, wide band AC VTVM and amplifier of lab quality and accuracy. Measures AC volts from 100 microvolts to 300 volts in 12 ranges. Function switch converts to wide band amplifier with 60 db gain on 1 mv range. Maximum output 5 volts RMS. Amplifier frequency response +0, -3 db 8 C to 800 KC. Input impedance 10 megohm. Output impedance 5 K ohms. Gray cabinet 8 1/2 x 5 3/4 x 7". Wt. 7 lbs. Operates on 105-125 V. AC. 50-60 cycles.  
No. 35B413. Complete Kit. **\$49.95**  
No. 35B409. Factory Wired... **\$79.95**

Model 260 is a highly useful combination. AC voltmeter, audio wattmeter and db meter. Features laboratory quality, accuracy and dependability. Measures amplifier gain response, power output, network response, output level. Useful for null indication for "Q" measurements and comparison measurements of capacity resistance and inductance, has 11 RMS voltage ranges from .01 to 1000 volts, accuracy  $\pm$  4% full scale — 7 watt meter power ranges from .15 MW to 150 watts across standard loads from 4 to 600 ohms, accuracy  $\pm$  5% full scale. Gray cabinet size 8 1/2 x 5 3/4 x 7". Wt. 6 lbs. For 105-125 V. AC operation.  
No. 35B408. Complete Kit. **\$49.95**  
No. 35B411. Factory Wired... **\$79.95**

## EICO SIGNAL TRACER

High gain RF and low gain audio input channels for signal tracing and trouble shooting RF, IF and audio stages of AM, FM and TV receivers.

Signals heard on built-in 5 inch speaker. It is transformer operated for safety and complete isolation. May be used as test speaker, null indicator, scope preamp, etc. Steel case 7 1/8 x 5 9/10 x 5 7/8". Wt. 7 lbs.

No. 35A140. Model 145AK. Complete Kit. **\$19.95**  
No. 35A139. Model 145A. Factory Wired... **\$28.95**

## RESISTANCE SUBSTITUTION BOX

Model 1100 provides a rapid selection of resistance values in decade multiples of 15, 22, 33, 47, 68 and 100 ohms with standard 1 watt 10% resistors. Has many uses in radio and TV servicing and in experimental design work. Size 3 3/4 x 6 1/2 x 3 1/2". Wt. 2 lbs.

35A277. Model 1100K. Complete Kit. **\$5.95**  
35A278. Model 1100. Factory Wired & Tested. **\$9.95**

## CAPACITANCE SUBSTITUTION BOX

Model 1120 contains range of 600 volt capacitors from .0001 to .22 mfd. with switch selector and 5 way binding posts. A highly satisfactory method for determining correct circuit capacity by substitution. Wt. 2 lbs. 3 3/4 x 6 1/2 x 3 1/2".

35A87. Model 1120K. Complete Kit. **\$5.95**  
35A122. Model 1120. Factory Wired & Tested. **\$9.95**

## NEW EMC TESTER KITS

**\$18<sup>87</sup>**  
109  
COMPLETE KIT



**\$12<sup>84</sup>**  
102F  
COMPLETE KIT



**\$24<sup>95</sup>**  
801  
COMPLETE KIT



## MODEL 109 EMC 20,000 OHM PER VOLT METER

FEATURES FULL VIEW CLEAR PLASTIC METER  
• 4 1/2" Square Meter • 24 Ranges—40 Microamperes!  
DC voltage ranges (at 20,000 o.p.v.)—0/6/60/300/600/3,000; AC voltage ranges (at 10,000 o.p.v.)—0/12/120/600/1200/3000. Resistance ranges, 0/20K/200K/0-20 Megohms. AC current ranges 0-30-300 MA, 0-3 amps. DC current ranges, 0-6-60-600 MA. DB ranges, minus 4 to plus 67 db. All ranges above are on self-contained batteries. Round cornered, molded bakelite case, with strap, is 5 1/4 x 6 3/4 x 2 7/8". Complete with inst. Wt. 3 lbs.  
No. 35A202. Model 109 Complete Kit. **\$18.87**  
Net Each...  
No. 35C10. Model 109 Factory Wired. Net Each... **\$26.41**

## MODEL 102F EMC MULTIMETER

FEATURES SAFETY FUSED METER  
Pocket size sturdy built, economically priced. Has 3 1/2" meter with sensitive 800 microampere movement, clear plastic full view front. Accuracy 2%. Five DC voltage ranges: 0-6-60-300-600-3000 volts. Five AC voltage ranges: 0-12-120-600-1200-3000 volts. Four DC current ranges: 0-6-30-130 MA; and 0-1-2 amps. Three AC current ranges 0-30-150-600 MA. Two resistance ranges: 0-1000, 0-1 megohms. Housed in bakelite case 3 3/4 x 6 1/4 x 2". Wt. 2 lbs.  
No. 35A399. Model 102F Complete, Kit, Net Each... **\$12.84**  
No. 35A400. Model 102F Factory Wired and Tested, Net Each... **\$15.24**

## MODEL 801 RESISTANCE-CAPACITY COMPARATOR BRIDGE AND IN-CIRCUIT CAPACITY CHECKER

It measures condensers in or out of circuit for opens, shorts or intermittent. A resistance and capacity checker which measures actual capacity, leakage and power factor. Measures capacity in four ranges 10 to 5000 mfd. Resistance in four ranges .5 to 500 megs, power factor from 0 to 60% on condensers between .1 and 5000 mfd. Will check open or shorted condensers above 50 mmf in circuits not shunted by excessively low resistance. Size 10 x 7 x 5". Wt. 7 lbs.  
No. 35A159. Model 801 Complete Kit. Net Each... **\$24.95**  
No. 35A158. Model 801 Factory Wired. Net Each... **\$38.95**

## NEW ARKAY TRANSISTOR INVERTER

Supplies 115 volt AC 60 cycle voltage from 12 volt DC battery. Highly efficient, no vibrators, uses two 2N442 transistors. You can operate radios, portable TV, record player, recorders, amplifiers, small appliances, shavers, emergency lighting, etc. Output is 115 V. AC 60 cycles, 125 watts continuous, 200 watts intermittent. The new transistor design insures long trouble-free service. It is small in size, simple to assemble. Has off-on switch, replaceable fuse, binding post input terminals and standard electrical female output. Size 10" long, 4 1/2" wide, 4 7/8" high. Shpg. wt. 7 1/2 lbs.  
No. 35A200 Complete Kit. **\$29.95**  
No. 35A201. Factory Wired... **\$35.95**

FACTORY  
WIRED  
\$35.95

**\$29<sup>95</sup>**  
Complete Kit



# LOW-PRICED EDUCATIONAL KITS FOR EVERYONE!



## BUILD THIS TUBE TESTER AT LOWEST COST EVER

**\$14.90** KIT

\$22.90 FACTORY WIRED

**THE NEWEST! THE SMALLEST!  
THE LOWEST PRICED!**

**PRICED WITHIN  
THE REACH OF  
EVERYONE**

A complete tube tester, not a gadget! Checks each section of multipurpose tubes separately... checks all octal, loctal, 9 prong and miniature tubes for shorts, leakages, opens, intermittents as well as for quality, same as tube tester costing over three times as much. Shorts or leakages between any two elements in the tube can be detected instantly. Check magic eye and voltage regulator tubes as well. Quality of tube is indicated directly on a two color meter dial using the standard emission test. Has an etched panel and a high impact bakelite case. Comes complete with instructions and tube charts in ring bound manual. Size 6 3/4 x 5 1/4 x 2 1/4" deep. Operates from 115 V. 60 cy. AC. Shpg. wt. 3 lbs. No. 35A143. Complete Kit, Net Each.....**\$14.90**  
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- Students
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**COMPLETELY  
FLEXIBLE  
ALWAYS UP-TO-DATE**



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TEST EQUIPMENT MANUFACTURER**

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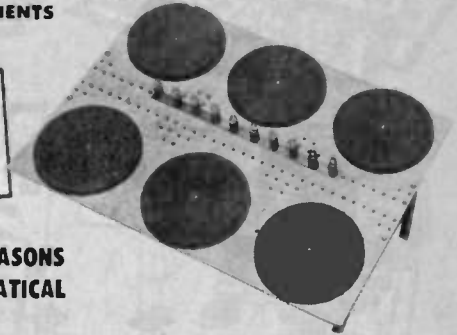
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## GENIAC ELECTRICAL BRAIN KIT FOR EXPERIMENTING, TEACHING—OR JUST FUN

OVER 400 COMPONENTS  
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HUNDREDS SOLD  
FOR \$19.95  
**\$9.95**

- COMPUTES • REASONS
- SOLVES MATHEMATICAL PROBLEMS



An Introduction to the basic circuitry of digital computers. Now you can build any of 125 electric brain machines, logic machines, intelligence tester, game playing machines, arithmetical machines (binary and decimal) add, subtract, multiply, divide. Code machines: secret coder, secret decoder, burglar alarm, puzzle solver, machine to compose music, to forecast weather and many others too numerous to mention. The perfect kit for everyone from 12 year old students to graduate engineers. Makes the ideal father and son project. Comes with easy to understand instruction manuals and full scale diagrams for beginners to the advanced science student. A real educational kit now being used by many schools. Complete with mounting rack and battery. Shpg. wt. 6 lbs. **\$9.95**  
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### MINIATURE ATOM SMASHER

Not a toy or gadget but a true scientific instrument capable of producing 75,000 volts—makes sparks up to 2" long—yet is absolutely safe because the current is infinitesimal. Many experiments can be performed which will astound your friends, students or family. Makes smoke disappear—defy gravity—turns propellers at a distance—transforms atomic energy into light—makes artificial lightning—smashes atoms—demonstrates ionic space ship drive and many other experiments. Constructed of the finest materials. Will do exactly, for instruction purposes, what generators that cost 3 to 10 times more. The perfect device to teach and learn the secrets of atomic physics and electricity. Will hold an audience spellbound as it performs trick after smashing trick. Includes an experiment kit and illustrated experiment manual. Manual explains "how and why." A fine research tool that will give years of use. Shpg. wt. 3 lbs. Operates from 115 V. 60 cy. AC. No. 36B268. Cosmotron Kit. Ea. **\$8.95**  
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**\$8.95**

Produces  
75,000  
Volts

Absolutely  
SAFE!



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An exciting invisible world is seen as you discover the basic principles of Ultra Violet Light. Discover the use of ultra-violet light in crime detection, scientific research and chemistry. Comes with Magic-Glo lamp, lamp stand, invisible ink, Magic-Glo paint, Magic-Glo crayon. Specimens of fluorescent rocks. Complete instructions and special forms for recording your own fluorescence discoveries. Shpg. wt. 3 lbs. No. 33A64. Each.....**\$11.95**



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A basic introduction to analog computer theory teaching the fundamental principles of mathematics, physics and mechanical drawing. Does multiplication, division, powers, roots, compound interest and many other functions. Comes with simple assembly manual and 48 page booklet illustrating various experiments. Easily assembled in approximately 3 hours. Requires no soldering. Uses only 2 flashlight batteries. Shpg. wt. 2 lbs. No. 36A251. Net Each.....**\$16.95**

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- Exciting experiments with Polarized Light
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Challenging experiments with the nature of light waves using a hand spectroscope and light polarizer. The analysis of color and types of spectra polarization and depolarization of light are among the many projects outlined in the two illustrated manuals. Contains all materials for assembling the Hand Spectroscope and Light Polarizer with accessories for experimentation. No. 36A275. Each.....**\$4.95**





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**What makes the lights go on? What makes an electric motor run? How does a battery store energy?**  
**LEARN THE ANSWERS WITH THIS EXCITING KIT!**  
 Hours of fascinating fun while learning with this large professional set. Complete set of parts and apparatus offers safe, exciting experiments for the young scientists interested in learning about electricity and why it behaves as it does. Has remote motor control unit, parts to build a DC or universal motor, 2-telegraph set, telegraph communication system, electro-magnets. Also includes ready-built motor. Experiments in instrumentation, remote control, etc. Size 24" L, 16 3/4" W, 2 1/8" H. Shpg. wt. 8 lbs. Mfg. suggested retail \$12.98.  
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 Similar to above kit but has less experiments. Has large quantity of parts and equipment, components to control voltages and conduct electrical magnetic experiments. Makes electric spider, pendulum, buzzer burglar alarm, telegraph communication system. Fully safety tested and approved. Size 21 1/2" L, 15" W, 2 1/8" H. Shpg. wt. 5 lbs. Suggested retail \$7.98.  
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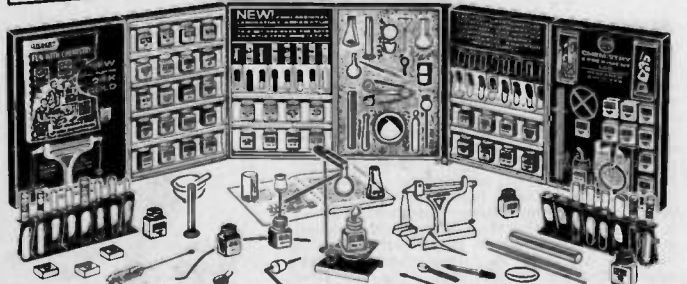
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**BUILD A COMPLETE RADIO IN 10 MINUTES!  
 NO TOOLS, SOLDER OR EXPERIENCE NEEDED**  
 Exciting new electronic kit with easy-to-follow "readmap" templates make building fun and simple for all ages. Uses fast, positive Jiffy-Clip connections—the same as used in electronic labs. Makes 15 different projects including a giant broadcast station, crystal radios, triode tube radios, code transmitter, voice transmitter, and short-wave radio that brings in distant cities and foreign stations. Complete with all parts, tube, and instructions. Size 20" L, 12 1/2" W, 2 1/8" D. Shpg. wt. 4 lbs. Mfg. suggested retail \$24.98.  
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 Similar to above kit only uses all transistor circuits. Has everything needed to build a complete broadcasting station, various receivers, code practice set, etc. 9 different projects in all. Absolutely no tools or experience needed. Kit includes parts, and components, transistor, templates, peg-board, Jiffy-Clips and easy-to-follow instructions. Size 18 1/2" L, 12" W, 1 7/8" D. Shpg. wt. 3 lbs. Mfg. suggested retail \$14.98.  
**No. 33A70. Complete Kit \$11.95**

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 The fascinating world of physical laws and action—demonstrated through exciting experiments. Giant size physics lab crammed with parts, equipment and apparatus for endless hours of safe experimentation in solar heat, light bending, optics, fluid dynamics, air and water pressures and other fields. Equipment includes professional radiometer, parabolic reflector, polarizing filters, optical bench beaker, illuminator, thermometer, ring stands and other pieces. Answers in interesting fashion the "why" and "how" of everyday phenomena. Dimensions: 22" L x 14 1/4" W x 33 3/4" D. Shpg. wt. 6 lbs. Suggested retail \$14.98.  
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 Fun and educational for everyone . . . regardless of age. Shows dramatically how water behaves under the pressure of air and gravity. Permits interesting experiments in hydraulics, diffusion, convection, etc. Parts supplied for making a water piston, syphon, force pump and many other units. Size 16 3/4" L x 12" W x 2 1/4" D. Shpg. wt. 4 lbs. Suggested retail \$4.98.  
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**NO. 12091 ADVANCED RESEARCH CHEMISTRY LAB**  
**MOST COMPLETE CHEMISTRY SET EVER MADE!**  
**MFG. LIST \$39.98**  
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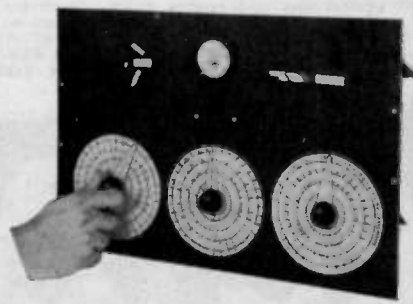
Designed for the young researcher from 12 years on up. Can be used in professional research projects in Electro-Chemistry, Crystallography, Qualitative and Quantitative Analysis, Metallurgy and Chromatography. Professional lab equipment includes Erlenmeyer flask, Florence ring stand, retort, thistle tube, beaker, crucible and cover, precision balance for accurate weighing and equipment for 24 K gold plating. Has periodic table of elements plus numerous chemicals. Instruction manual is virtually a complete chemistry text book. Steel cabinet opens to cover 5"; measures 19" W x 13 3/4" L x 3 1/4" D. Shpg. wt. 18 lbs. Mfg. suggested retail \$39.98.  
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**NEW GENIAC ANALOG COMPUTER KIT**  
**ONE OF THE MOST INTERESTING KITS WE HAVE SEEN**

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**50 EXCITING EXPERIMENTS**

- Introduction to basic elements of analog computers.
- Need only screw-driver and pliers.



Offers a basic introduction to computer theory. Gives accurate answers to practical problems. You can perform over 50 experiments—multiplication, division, powers, square roots, radio active decay, rocketry, light, kinetic energy, interest, etc. Level of accuracy better than 5%. The computer consists of a masonite panel for mounting meter and controls, potentiometers, meter, specially colorated scales, guide and operating booklet. Shpg. wt. 6 lbs.  
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125 absorbing experiments provide an introduction to electricity through an understanding of magnetism and static electricity. Charging and discharging, attraction and repulsion, the flow of electrons are but a few of the subjects that can be explored first hand. Contains two 48 page illustrated manuals and complete materials for experimentation. Shpg. wt. 3 lbs.  
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## 7-IN-1 ELECTRONIC EXPERIMENTERS KIT

Provides an interesting way to gain practical as well as theoretical training in basic electronics. All items built, operate directly from 110 volts so no additional power supply or batteries are needed. However low voltage only is used in circuits, making units safer for the novice.

### YOU CAN BUILD:

- 1 A Standard One Tube 110 volt operated radio.
- 2 A Wireless Home Broadcaster. Broadcast through your radio at home—can also be used to play records through any radio in the house.
- 3 Code Practice Set. Practice Morse Code—complete with code symbols.
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- 5 Signal Tracer. Perfect for those really interested in learning more about radio and electronics. Explains how this circuit can be used to help service and repair defective radios.
- 6 Sine Wave Generator. Another piece of radio test equipment. This takes over where the signal tracer leaves off. Perfect for the electronic minded.
- 7 Code Blinker Light. Send Morse Code messages at night and maintain silence. Messages can be sent from house to house and room to room.

Kit includes: 6SN7 radio tube, mounting board and template, power transformer, selenium rectifier, all mounting hardware, all resistors, condensers, earphone which is also used as mike. 16 page instruction book shows how to wire all seven circuits and explains how they work.  
 No. 37A379.  
 Includes 10% Excise Tax. Net Each.... **\$10.95**

**YOU LEARN AS YOU BUILD 7 COMPLETE PROJECTS!**

LIST PRICE \$16.45  
**\$10.95**

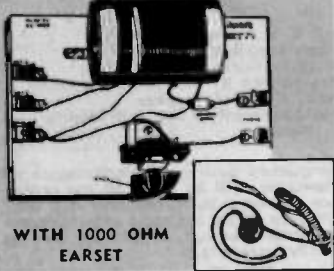


EDUCATIONAL BENEFITS DERIVED FROM THIS KIT  
 WORTH MANY, MANY DOLLARS!

## TOP VALUE! RADIO CRYSTAL KITS

### NEW PHILMORE GERMANIUM SELECTIVE CRYSTAL RADIO KIT

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 construction with gummed label pictorial diagram which fits baseboard as a template showing location of parts and connections. Wt. 1 lb.  
 No. 22B244. (with headset) **\$3.19**



WITH 1000 OHM EARSET

### 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.  
 No. 22B225. Net Each..... **95c**



## CRYSTAL DETECTORS and ACCESSORIES



- 1 OPEN TYPE CRYSTAL DETECTOR. Universal joint on swivel arm provides quick accurate adjustment on any point of crystal. (Less Crystal) No. 17A44. NET EACH..... **15c**
- 2 SUPER SENSITIVE CRYSTALS. Made from finest galena are. No. 12A1401. NET EACH..... **10c** 10 For..... **88c**
- 3 SPRING CAT WHISKERS. Univ. for all crystal sets. Best Quality. No. 17A144. Per Pkg. of 3..... **12c** 10 Pkgs. for..... **\$1.00**
- 4 FIXED CRYSTAL. Compact... only 1/2x3/4" with 1/8" copper leads. Self adjusting contact is not affected by changes in weather, temperature or handling. Will not go dead. Ideal for replacement of old or building new Crystal Sets. No. 14B279. SPECIAL EACH..... **71c**



WITH ARTIFICIAL SATELLITE  
**\$1.95**

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Lots of fun for kids of all ages. Looks just like a 3 stage rocket with an artificial satellite in its nose cone. Each stage in a different bright color. In actuality it's a crystal diode radio which plays through attached crystal earset. Tuning of different stations is accomplished by screwing and unscrewing nose cone. Uses no batteries or electrical power. Picks up strong local stations with only connection to a water pipe, telephone dial, bedsprings, TV aerial or any other large metal surface capable of picking up radio waves. Suction cup on bottom of rocket holds it in launching position on any flat surface. Shpg. wt. 1/2 lb.  
 No. 17A224. Net Each..... **\$1.95**

## CARBON MICROPHONE BROADCASTS OVER ANY HOME RADIO

Push-button switch cuts off radio programs and brings in home broadcaster's voice very clearly. Sensitive, with excellent volume, shock-proof. Easily attached to any set without rewiring, can remain attached without interfering with regular broadcasting. List price \$2.50.  
 No. 17B485. Net Each..... **\$1.47**



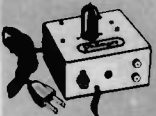
## HAND MICROPHONE

Carbon type, hand held. Ideal for parties—cuts in on broadcasts and permits person to talk or sing through radio speaker. Button type switch cuts mike in and out of broadcast. Simple to install. Completely shockproof. Gray hammertone finish. Complete with 9 ft. cord.  
 No. 17A258. List price \$3.25. Net Each..... **\$1.91**



## CODE PRACTICE OSCILLATOR KIT

Start your novice experience by building your own code practice oscillator. Unit is easily constructed using only basic tools. Uses 12AX7 or 12AT7 tube. Plugs right in 110 volt outlet. Use any single or double headphone in this catalog. Less Key, Earphone and Tube.  
 No. 37A377. Each..... **\$5.00**



## NEW 10-IN-1 TRANSISTOR RADIO LABORATORY KIT

LIST PRICE \$12.95  
**\$8.96**

### BUILD ALL THESE

- Sun-powered Transistor Radio
- Wireless Broadcaster
- Code-Practice Oscillator
- Many Others

with the NEW Sun Battery



Now a complete radio Laboratory Kit that gives the latest theory as well as practical experience while working with the newest of electronic components, Transistor, Germanium Diode and the sensational new Sun Battery.

### YOU CAN BUILD:

A Transistor Sun Battery powered Radio (obtains power from sunlight); a Transistor Radio using flashlight battery power; a Germanium Diode Receiver; a Transistor Radio with Germanium Diode detector; Wireless Code Practice Key (Morse Code can be sent through any radio in the house); a Wireless Home Broadcaster (broadcast through any radio in the house); Code Practice Oscillator; Code Blinker Light; Audio Pre-amplifier; a Sine Wave Clipper, a useful piece of test equipment for learning more about electronics. Kit includes all necessary parts including Sun Battery, Germanium Diode, Transistor, Headphone, iron core Antenna Coil, mounting board, mounting hardware, and easy to understand 12 page instruction book. Wt. 3 lbs.  
 No. 37B374. Net Each..... **\$8.96**





# EDUCATIONAL RADIO AND HIGH FIDELITY KITS

## TRANSISTOR PORTABLE RADIO KIT LOW COST—EQUAL WIRED SETS SELLING FOR \$40 OR MORE

WITH LOUDSPEAKER

**\$12<sup>94</sup>**



Ease of building and excellent performance when completed, makes this all new low priced transistor kit ideal for the novice. Can be carried anywhere . . . ideal as a bike radio.

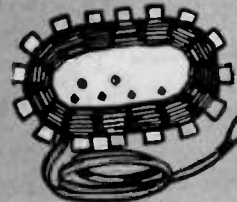
Two high quality transistors, germanium diode detector and matched Ferri-Loopstick antenna give excellent sensitivity and selectivity with ample volume from 4" PM speaker.

Low cost operation from single long-life standard battery. Kit assembles into small sturdy ivory plastic cabinet 7 1/2 x 5 x 2 1/2". Weighs only 1 lb., 6 oz.

37B193. (Incl. Fed. Tax) **\$12<sup>94</sup>**

Net Each . . . . .

21B159. Battery for above. Ea. **89c**



EASY-TO-BUILD

**\$9<sup>95</sup>**

FOR WORLD-WIDE  
SHORTWAVE RADIO  
LISTENING AT  
LOWEST COST EVER

Converts any AC; AC-DC or battery radio regardless of size or original cost into a short wave set . . . receives amateur, police, ships at sea, etc., any short wave station operating between 2 and 18 megacycles. Requires no electrical connections, has self-contained battery supply, connects to any radio by placing converter coupling device near loop or loopstick of radio. Complete with plastic case, 3A5 tube, 3 variable condensers, set of plug-in coils, everything needed (except batteries) including step-by-step easy instructions.

No. 37B376. Net Each.

Battery Kit for above. 2-C flashlight cells, 1-ER455 45 V. "B" battery.

No. 21B167. Per Kit.

**\$9<sup>95</sup>**

**\$2.57**

## POPULAR ARKAY HI-FI KITS TRUE HI-FI 5-WATT AMPLIFIER KIT

**\$12<sup>95</sup>**

EASY TO BUILD



Unparalleled in performance and simplicity of construction! This low price amplifier kit features full 5 watts of unusual tonal realism with low hum and noise level and a frequency response of 20 to 18,000 cycles  $\pm 1.5$  db. Not only interesting and educational to build but hours of listening pleasure will result from the finished product. Entire amplifier builds into handsome cabinet. Complete with cage cover such as used only on high priced units. Uses 12AX7, 2-35C5, 35W4 tubes. Output to any 3-4 ohm speaker. Step by step instructions make building easy for even the newcomer. Wt. 4 lbs. Complete with tubes.

(Price Includes Federal Excise Tax).

No. 33C38.

Net Each . . . . . **\$12.95**

## SPECIAL OFFER! ABOVE AMPLIFIER PLUS NORELCO 8" HI-FI SPEAKER

**\$28.00 VALUE!**  
ALL FOR ONLY . . . .

**\$17<sup>99</sup>**

This deal is without comparison! You get the popular Arkay Model FL-5 high-fidelity amplifier kit as listed above plus the famous Norelco Model AD3800M 8" twin-cone speaker, a regular \$16.50 list value, at B-A's sensational low price. Speaker specs: Handles up to 10 watts; Freq. response 75-19,000 cps. Imp. 4-6 ohms.

33C44. Amplifier Kit and Speaker, Special. **\$17.99**

## NEW HI-FI SPEAKER ENCLOSURE KIT

LOW IN COST—  
EXCELLENT IN  
PERFORMANCE

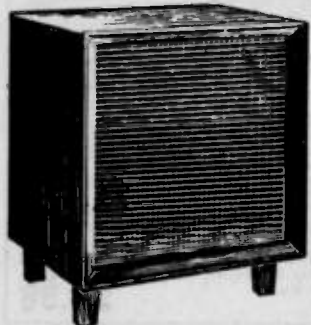
**\$12<sup>95</sup>**

Now on easy to assemble infinite impedance acoustically tuned baffle. Designed for exceptionally clean audio response  $\pm 5$  db from 40-13,000 cps. When assembled measures 17 x 17 1/2 x 15 1/2" exclusive of Hollywood legs. Can be finished or stained to your taste. Everything is pre-cut to size—just mark and glue. Takes any 12" speaker or 8" speaker with adapter ring listed below. Ideal for use with 8" Norelco speaker in system above. Complete with all parts, nails, glue, trim, insulation, grille cloth, legs and easy to follow step-by-step instructions.

Shpg. wt. 29 lbs.

No. 36C41. Net Each. . . . . **\$12.95**

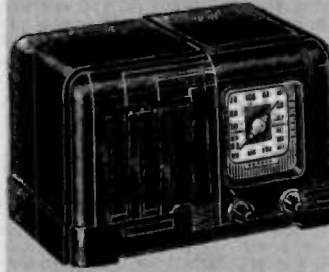
8" Adapter Ring  
No. 36C42. Net Each . . . . . **95c**



## LOW COST 5-TUBE SUPERHET RADIO KIT

EASY TO BUILD

**\$16<sup>76</sup>**



Latest superhet circuit designed for the ultimate in sensitive reception and tonal quality. Covers standard AM broadcast band (550 to 1600 KC) using all-American tube series consisting of 12SA7, 12SK7, 12SQ7, 50L6 and 35Z5 rectifier. With built-in loop antenna. Small in size, 9x5x5" yet gives big set performance. Instruction manual using new sensational 3-D Eye-O-Gram simplifies wiring so that even the newest of newcomers may achieve professional results. The 3-D Eye-O-Gram consists of 3 translucent sheets each in a different color and showing one phase of wiring. Each sheet is placed in its turn on the chassis for a pictorial wiring guide. In addition there are 16 fully illustrated pages showing voltage and resistance charts, photographs of each component as well as completed set, basic receiver theory, everything needed from a check list when starting to a very simple means of aligning completed set without use of a signal generator. Kit comes complete with cabinet, tubes and all parts necessary. Wt. 5 lbs.

No. 33C34. Net Each . . . . . **\$16.76**  
(Includes Federal Excise Tax)

- Ideal kit for getting started in electronics.
- For individual or group instruction.
- A quality set when built.

## NEW EICO MODEL RA6 6-TRANSISTOR PORTABLE RADIO KIT

**\$29<sup>95</sup>**



- All U. S. Made
- High Sensitivity and Selectivity
- Built-in Ferrite Loop Antenna
- Pre-aligned RF and IF Transformers
- 4x6" Oval PM Speaker
- No Alignment or test instruments needed.

Engineered without compromise for distinguished quality and performance yet so simple to construct that even the newcomer will be proud of the professional performance and appearance once the kit is built. Not only is it easy, creative fun to build but also gives a lifetime of big set radio entertainment wherever you and your family go . . . indoors or out, on picnics, boating, bicycling, strolling, motoring . . . practically anywhere.

The RA-6 provides unusual sensitivity, selectivity and high undistorted sound output in a size that's just right for carrying around comfortably. Operating features include planetary vernier tuning (7:1 reduction) that makes it easy to find and tune in stations properly; a high impedance earphone jack that eliminates the drain of the output stage when an earphone is used.

Construction features include plug-in transistor sockets and pre-aligned transformers.

Case of simulated tan leather with retractable handle. Size 8 1/2" L. x 4 1/2" H. x 2 1/2" D. Battery required, Eveready 246. Shpg. wt. 3 lbs.

No. 35A83. (Less Battery). Net Each . . . . . **\$29.95**

As above but factory wired and tested, less battery.

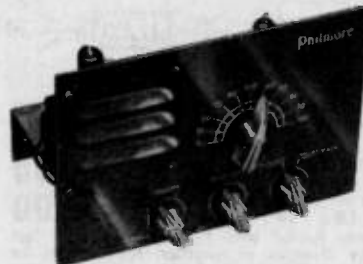
No. 35A84. Net Each . . . . . **\$49.95**

Eveready Type 246 Battery for above.

No. 21B142. Net Each . . . . . **\$1.30**

## NEW 3-TUBE AC-DC 2-BAND RADIO KIT

**\$14<sup>23</sup>**



- Simple to build.
- Uses modern miniature tubes.
- Big 3 1/2" speaker.

Here is a professional two band radio kit designed for the beginner in radio. Provides the opportunity to learn radio fundamentals while having fun. When built furnishes a high quality broadcast and shortwave band radio. Up to date circuitry utilizes modern miniature tubes. Covers frequencies (broadcast band) 550-1650 KC and (shortwave) 3-13 MC. Panel is finished a beautiful grey hammertone using 1 each 35W4, 50C5 and 12AU6 tubes. Supplied with simplified easy to follow pictorial and schematic diagrams. Complete with all parts including 3 1/2" speaker (less tubes). Shpg. wt. 3 lbs. Mfg. list \$22.00.

No. 37B300. Net . . . . . **\$14.23**

No. 37B301. Tube Kit for above. Net . . . . . **\$3.18**

## NEW TRANSISTORIZED CODE PRACTICE OSCILLATOR AND MONITOR



Serves as code practice oscillator and phone-CW monitor without making any changes. Builds into small two-piece satin finish copper case. Available as Kit or Wired. Requires 2 small penlight cells such as Eveready #912 for operation. Shpg. wt. 1 lb.

No. 33A139. CPS-MTK Kit. Net Each. . . . . **\$4.85**

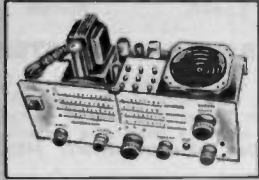
No. 33A140. CPS-MTW Wired. Net Each. . . . . **\$5.75**

## 5-TUBE COMMUNICATIONS RECEIVER KIT



**PHILMORE  
MODEL  
CR5AC  
\$49<sup>95</sup> Kit  
\$87.75 Wired**

Includes  
Federal  
Excise  
Tax



Covers all Freq. 550 KC to 30. MC in 4 bands.  
Built-in calibrated S-meter.  
11" slide rule dial with fly wheel action.  
Full electrical bandspread on each band.  
Transformer-operated power supply.

Positively surpasses all other all-band receiver kits on the market at anywhere near this low price. Professionally engineered by Philmore, one of the oldest names in radio kits, to meet the exacting requirements of the present day amateur, novice, ham and short-wave listener.

The Model CR5AC features—A highly sensitive five-tube (including rectifier) superheterodyne circuit with individual adjustable coils for each band. Built-in calibrated S-meter employing its own driver tube. Transformer operated power supply for safe shockproof operation. Four-band operation covering all frequencies up to 30 megacycles including amateur bands from 10 to 160 meters. A built-in BFO with fully adjustable tone control for optimum CW reception. Built-in speaker with heavy magnet fully protected and top-mounted so that receiver can be placed between additional gear. Input jack for external Q multiplier when desired. Front panel controls include: a full range RF Gain Control, incorporating an AVC on-off switch; function selector for phone or CW reception, with standby position for use while transmitting; large no-slip bandswitch knob; bandspread calibrated from 0-100; volume control with AC switch; front mounted phone jack for external speaker or earphone. Tube complement 6X4, 6BE6, 6AZ8, 6AV6 and 6AQ5. Size 15 3/8" W. x 6 3/8" H. x 10" D.

Complete Kit with Tubes and Instruction Book, less cabinet. **\$49.95**  
No. 37A37. Model CR5AC. Shpg. wt. 12 lbs. Net.  
Beautiful Gray Wrinkle All Steel Cabinet for above. **\$9.45**  
No. 37A38. Shpg. wt. 5 lbs. Net.  
Model CR5AC. Communication Receiver as above wired and tested in Cabinet. Shpg. wt. 17 lbs. **\$87.75**  
No. 37A40. Net.

## ANYONE 18 OR OLDER CAN GET FCC LICENSE



## PHILMORE CITIZENS BAND TRANSCIEVER KIT



**2-WAY RADIO  
TELEPHONE**

**\$39<sup>95</sup> Kit**

No tests, no special technical skill required. Just fill out FCC form enclosed with each Philmore Kit, and send to Federal Communications Commission.



Brand new kit so designed that anyone can build it without previous electronic knowledge or skill! Through the use of self-explanatory pictorial diagrams, clear step-by-step instructions and carefully selected components, proper operation on any of the 22 authorized channels is virtually assured upon completion of the kit.

- Any three desired channels may be automatically switch-selected from the front panel (crystal for one channel supplied).
- Interchangeable power supplies allow 6 and 12 volt DC operation from cigarette lighter socket or 110 V. AC operation in fixed location.
- Sensitive super-regenerative receiver gives clear reception on weak signals as low as 1 micro-volt.
- 5 tube circuit allows legal maximum 5 watt transmitter power.
- Works with Model TC15 Whip Antenna or any other 52 ohm coax fed Citizens Band Antenna.

Kit supplied with tubes, one channel crystal, microphone, cabinet (size 10" W, 4 1/8" H, 10 7/8" D.), instructions for assembly. Wt. 15 lbs. **\$39.95**  
No. 35A431. TC11. Kit for 115 V. AC. Each.....  
No. 35A432. TC612. Kit for 6 & 12 V. DC. Each.....**\$44.49**  
No. 35A433. TC15. Whip Antenna. Each.....**\$4.50**

SEE PAGE 124 FOR CITIZENS BAND ANTENNAS,  
PAGE 118 FOR OTHER CLASS "D" CITIZENS 2-WAY RADIOS

## PHILMORE CITIZENS 2-WAY RADIO KITS

IN MODULAR FORM— YOU BUY ONLY AS MUCH AS YOU NEED AT TREMENDOUS SAVINGS

Now you can build this value-packed and feature-loaded complete citizens band station for your auto, or home and gain tremendous satisfaction, experience and pleasure in the bargain.



**\$39<sup>95</sup> KIT**  
Factory Wired \$62.95  
Citizens Band Transmitter  
Model CT-1



Transistorized Mobile 12 V. DC and 115 V. AC Fixed Station Power Units with Built-in Antenna Change-over.



**\$17<sup>95</sup> KIT**  
Factory Wired \$24.95  
Citizens Band and 10 Meter Converter  
Model CC-1

### CITIZENS BAND TRANSMITTER KIT

- Small size—only 3" H., 9" W., 8" D., with swivel bracket for mounting under dash or as a tilt stand on desk.
- Press-to-talk microphone. • Six crystal controlled channels. Crystal for ch. 12 supplied. • Tune up meter on panel monitors actual plate power input or relative power output. • Separate optional power supplies. Complete versatility for 12 V. mobile or 117 V. AC fixed operation.
- Professionally designed throughout. Fully meets FCC regulations. Operates at legal 5 watt power input with high efficiency and low battery drain. 100% plate modulated. 3 tubes, 6CX8 crystal oscillator and neutralized RF power amplifier, 12AX7 speech amplifier, 6AQ5A modulator. Easily assembled and wired; full instructions supplied.

Model CT-1 Transmitter Kit. With cabinet, handle bracket, microphone, tubes and crystal for channel 12. Shpg. wt. 7 lbs. **\$39.95**  
No. 35A172. Net Each.  
Factory Wired and Tested CT-1 Transmitter. **\$62.95**  
No. 35A173. Shpg. wt. 7 lbs. Net Each.  
Crystals for other channels. Specify channel or frequency.  
No. 50A98. Each.....\$2.95 5 For.....\$13.75

### CITIZENS BAND(And 10 METER)CONVERTER KIT

- Double-conversion superhet reception. Used in conjunction with your regular automobile or home radio with all tuning done at the radio. Radio push-buttons can be pre-set for specific CB channels. Requires only simple antenna connection to set, has panel switch for returning radio to regular operation. Two tube circuit uses 6BH6 RF amp., 6U8 asc. mixer.
- Crystal controlled for utmost stability on CB channels. Optional plug-in crystal also allows tuning 28.5 to 29.5 mc 10 meter band.
- Extremely small size—2" H., 6" W., 5" D. with swivel mfg. bracket.

Model CC-1 Converter Kit. With cabinet, swivel-handle bracket, tubes, CB crystal (only one needed for all 22 channels) and complete wiring instructions. Power supplies below furnish all operating voltages for both transmitter and converter. **\$17.95**  
No. 35A174. Shpg. wt. 3 lbs. Net Each.  
Factory Wired and Tested CC-1 Converter. **\$24.95**  
No. 35A175. Shpg. wt. 3 lbs. Net Each.  
10 Meter Amateur Band Converter Crystal.  
No. 35A176. Type CC-1000 9316 KC. Net Each.....\$2.95

### POWER SUPPLIES WITH INTERNAL ANTENNA CHANGEOVER RELAY

① Transistorized 12 Volt DC Kit. Furnishes 300 V. DC @ 100 MA choke filtered. Size 4x5x5" H. With transistors, diodes, detailed assembly instructions. Wt. 7 lbs. **\$26.75**  
No. 35A179. CPM-1 Kit. Net Each.  
Factory Wired and Tested CPM-1 Mobile Power Supply. **\$40.95**  
No. 35A180. Shpg. wt. 7 lbs. Net Each.

② 115 V. AC Operated Kit. Comparison unit for home-base operation of CT-1 and CC-1. Output 300 V. DC @ 100 MA. Uses silicon diode rectifiers. Size 4x5x5" H. Wt. 7 lbs. **\$21.75**  
No. 35A177. CPA-1 Kit. Net Each.  
Factory Wired and Tested CPA-1 AC Power Supply. **\$30.45**  
No. 35A178. Shpg. wt. 7 lbs. Net Each.



# ALL NEW BUILT-IN HOME INTERCOMS

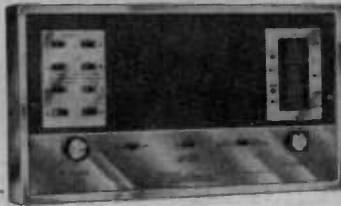
AM-FM RADIO OR AM RADIO PLUS INTERCOM THROUGHOUT THE HOUSE

**NuTone**

A FAMOUS NAME IN HOUSEHOLD PRODUCTS



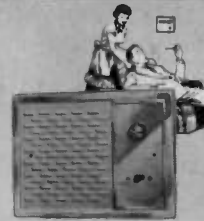
① AM-FM Radio Master



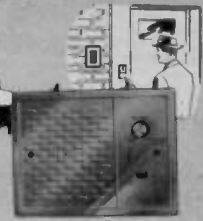
② Deluxe AM Radio Master



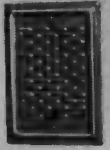
③ 8-in. Hi-Fi Remote



④ 4-in. Standard Remote



⑤ 5-in. Full Range Remote



⑥ Outside Remote

More versatile than ever. Individual packaging and pricing of Master Unit and separate components permits customizing any installation to meet your requirements. Choose the master you want, pick the number and type of remotes you need. Purchase only the wire you'll use and you have a customized system.

**\$111.06** MFG. LIST \$151.50

## ① MODEL 2057 AND 2058 AM-FM RADIO MASTER UNIT

New powerful master with AM-FM Radio permits making up system with up to 10 remote stations. Features large 8x4" speaker.

**MASTER** is heart of system which may converse with one, several or all of the remote stations. Unique feature is the switchboard type operation. It may "set up" any two or more remotes for direct communication with each other. The "Monitor" feature enables the Master as well as one or more remotes to monitor (listen in) any other location. Crying from baby's room and the children playing in the yard (with outside remote) may be heard by the mother from any or all rooms in the house. Separate volume control on powerful 8 tube Incl. rect. plus transistor radio and intercom allows listening to radio while monitoring other stations. Thus radio can be played, and baby crying or conversation can still be heard. New slim-line design permits use in 2" walls. Transistor in intercom circuit plus transformer powered amplifier assures hum free, noise free operation. Other Master **Panel Controls**—tone, system volume, FM-AM radio selector switch, illuminated dials with tuning knobs, 10 slide remote selector switches and high impedance input for phonograph or tape recorder—allowing favorite records or tapes to be played over entire system. Master box size 7 $\frac{3}{8}$ " H x 14 $\frac{1}{2}$ " W. Comes complete with rough-in box. Choose remotes at right plus length of 3 conductor wire needed to each remote.

Model 2057 Silver anodized AM-FM Master Unit. Mfg. list \$151.50. No. 36C152. Net Each. **\$111.06** 2 Lots, Each **\$100.97**  
 Model 2058 Copper Anodized AM-FM Master Unit. Mfg. list \$151.50. No. 36C153. Net Each. **\$111.06** 2 Lots, Each **\$100.97**



### L71 "ELECTRONIC" BUILT-IN DOOR CHIME

Connects directly with Nutone Radio-Intercom Systems, relaying chime tone to all rooms with speaker, or will operate independently as chime when intercom system is turned off. Two notes front door, one note rear and adjustable volume control. Gold anodized bezel with Ivory Grille. Bezel 7 $\frac{1}{8}$ " square, cutout 6 $\frac{1}{8}$ " square x 2" deep. Shpg. wt. 5 lbs. 101-0B transformer included. Mfg. list \$16.95. No. 36A124. Net Each. **\$12.12**



### L70 "DELUXE ELECTRONIC CHIME"

More deluxe surface mount chime. Operates in some manner as L71 but with 8 or 4 notes front door, one note rear door, different note 3rd door. Transformer included. Mfg. list \$34.95. No. 36A104. Net Each. **\$24.40**

## ALL TRANSISTOR HOME INTERCOM SYSTEM



### COMPLETE 5-STATION SYSTEM

LIST PRICE **\$69.95**

**\$52.50**

- Requires no AC power.
- Run wire only to each remote.
- Operates for months on 9 V. battery.
- Absolutely-no-shock or fire hazard.

A completely transistorized flush-wall intercom system. Provides room to room communication from master to remotes or from remotes to remotes. Additional feature permits one or more rooms to "monitor" any other room or rooms for "baby sitting," listening in on a sick patient, etc. Long battery life is assured by the fact that when master "talk-listen" switch is in "standby" there is no current drain. However any remote may still call the master by pressing his "talk-listen" switch which causes a "beep" tone at the master.

Five selector switches at the master panel enables the master to select any or several of the remote stations by setting the proper switches to either "on" position or to "monitor." Complete system: master, 3 indoor remotes, 1 door remote, 200 ft. 3-conductor cable, all rough-in material. (Less battery). 5th switch position permits additional remote to be added, see below. No. 36C159. List \$69.95. Net **\$52.50**  
 No. 21B137. 9 V. Battery for above, Eveready 276. **\$1.26**  
 Extra Indoor Remotes with box, for above system. Size 6 $\frac{1}{4}$ x4 $\frac{3}{4}$ ". No. 36C160. List \$8.75. Net Each. **\$5.25**

## ③ MODEL 2053 & 2054 DELUXE AM RADIO MASTER

Similar to above but contains only AM Radio and permits using up to 8 remote stations. Other functions are the same. Specifications: 5 tubes including rectifier, 5" speaker, power consumption 30 watts at 117 V. 60 cy. AC. Size 16" wide, 8 $\frac{3}{4}$ " H, 1 $\frac{3}{8}$ " D. Requires length 3 cond. wire to each remote. Comes complete with rough-in box. See below for remote. Mfg. list \$83.50.

Model 2053 Silver anodized Deluxe AM-Radio Master. No. 36C165. Net Each. **\$61.21** 2 Lots, Each **\$55.65**  
 Model 2054 Copper anodized Deluxe AM-Radio Master. No. 36C166. Net Each. **\$61.21** 2 Lots, Each **\$55.65**

### REMOTE SPEAKERS FOR USE WITH MASTERS

③ 2020-B Hi-Fi Speaker Remote. 8" Coaxial Hi-Fi accessory speaker. Can be used inside or outside. Has rotary volume control and rotary talk-listen switch for intercom. Shpg. wt. 7 lbs. Mfg. List \$19.75. No. 36A132. **\$14.48** 2 Lots, Each **\$13.17**

Rough-In Frame for 2020-B speaker. For inside installations. Shpg. wt. 2 $\frac{1}{2}$  lbs. No. 36A133. Each. **\$1.66** 2 Lots, Each **\$1.51**

Rough-In Frame for 2020-B speaker. For outside, patio, etc., installations. No. 36A134. Shpg. wt. 4 lbs. **\$2.38** 2 Lots, Each **\$2.17**

④ Model 2025. 4" Standard Remote. Desert sand finish. Complete with rough-in box. Requires rough-in opening of 7x5 $\frac{1}{8}$ ". Shpg. wt. 4 lbs. No. 36C172. Net Each. **\$5.50** 2 Lots, Each **\$5.00**

⑤ Model 2026. 5" Full Range Remote. Desert sand finish. Complete with rough-in box. Requires rough-in opening of 7x5 $\frac{1}{8}$ ". Shpg. wt. 4 lbs. No. 36C173. Net Each. **\$6.24** 2 Lots, Each **\$5.67**

⑥ Model 2006. Door (outside) remote. Complete with rough-in box. Shpg. wt. 2 lbs. No. 36C174. Each. **\$5.50** 2 Lots, Each **\$5.00**

Special 3-Conductor Cable for connecting remote to masters. No. 2A223. 4c Ft. 100 Ft. For. **\$2.24**

## NUTONE BUILT-IN AM RADIO INTERCOM SYSTEM

### A COMPLETE PACKAGE

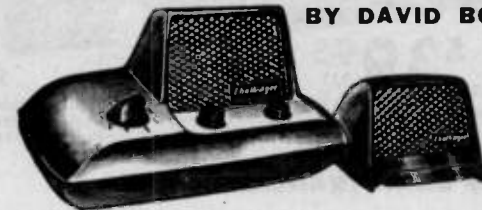
Includes 2031 copper enamel finished Master which has AM-Radio built-in, phono jack and 8 selector switches provides position for up to 8 remotes. Included in package are 3 inside remote speaker units Model 2025, with rough-in boxes; 1 door remote speaker Model 2006 and 200 ft. of 3-conductor wire, antenna wire and mounting hardware. Nothing else to buy. Sug. List \$99.50. No. 36C167. **\$74.50**



LIST \$99.50 **\$74.50**

## NEW FUTURISTIC DELUXE Challenger INTERCOMS

### BY DAVID BOGEN



AS MODERN AS TOMORROW IN APPEARANCE AND OPERATION

- Compliments Decor of Modern Office and Home.
- Easily Installed.

### ALL-MASTER OR MASTER-TO-REMOTE SYSTEM

Challenger CHM6A Master is a dual purpose unit, which can operate in a master-remote system using one master and up to 5 remotes or in an all master system using up to 6 masters. Housed in modern design gray and black thermo-set (phenolic) type cabinet, 10x5 $\frac{1}{4}$ x4 $\frac{3}{8}$ ". Incorporates volume control, press to talk switch and 7 position selector switch. "All" position permits master to talk to all remotes or all masters, depending on system, at one time. Wt. 7 lbs. Mfg. List \$53.75. No. 36A170. CHM6A Master. Net Each. **\$32.25**

Challenger CHM12A Master. Similar to above except up to 12 masters may be used in all master system or one master and up to 11 remotes in master remote system. Does not permit calling all stations simultaneously. Size 10x5 $\frac{1}{4}$ x4 $\frac{3}{8}$ ". Wt. 7 lbs. Mfg. list \$56.35. No. 36A171. CHM12A Master. Net Each. **\$33.80**

Challenger CHR Remote for use with either of above masters in master-remote system. Housed in complimentary black cabinet with initiating call bar. Size 3 $\frac{1}{2}$ x5 $\frac{5}{8}$ x3 $\frac{3}{8}$ ". Wt. 3 lbs. Mfg. list \$13.95. No. 36A177. CHR Remote. Net Each. **\$8.40**

### CABLE REQUIREMENTS

ALL MASTER SYSTEM—One more conductor than number of masters in system to interconnect all masters.

MASTER REMOTE SYSTEM—3 conductor cable from master to each remote. See opposite page for cable listings.

# TOP-QUALITY INTERCOM SYSTEMS FOR EVERY NEED

**MASCO "Wireless-talk" INTER-COMMUNICATOR**  
NO WIRES! NO CABLES! NO INSTALLATION!

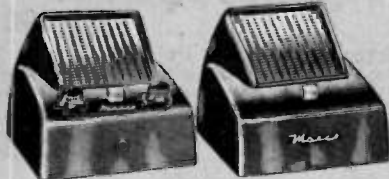


MFG. LIST \$88.60 **\$60.96**

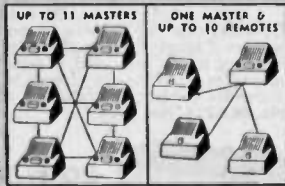
- JUST PLUG INTO ELECTRICAL OUTLET!**
- Ideal for home, farm, restaurant, institution, office or industry.
  - Beautiful portable styled case with easy carrying handle.
  - Take it anywhere—use it anywhere, inside or out. Even works between adjacent buildings.
- FULLY U/L APPROVED

Complete Two Unit System for instant two-way communication in home or business wherever two-station intercom system is needed. Also perfect as silent baby sitter or nurse for the sick. Requires only 115 volt outlet. Each unit is a complete electronic transmitter-receiver operating on an interference free frequency of 200 KC over your electric wires. Press to talk, release to listen switch plus position for constant listening. Size 10x5x7 1/4". For 105-125 volt, 50/60 cycle AC/DC operation. Shpg. wt. 12 lbs. No. 36B123. Two Unit System. Mfg. List Price \$88.60. Net **\$60.96**

## MASCO IJM FOR 2 TO 10 STATIONS



ALL-MASTER OR MASTER-TO-REMOTE SYSTEM



- Time—Money—Step Saver.
- Operates up to 2000 ft., 2 1/2 Watts Power!
- Anyone can install easily.

**All Master System**—Consisting of from 2 up to 11-IJM10 Masters, no Remotes, permitting up to 5 pairs of private conversations at one time. Any Master can call any other Master in system even though station called has power off. Controls: Station Selector, Volume Control with AC Switch and press-to-talk Switch with lock-in feature for baby sitting, dictation, sick room, etc. Cable required: 1-conductor more than No. of Masters in system to interconnect all Masters.

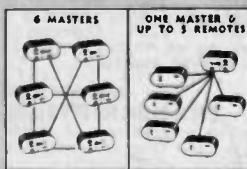
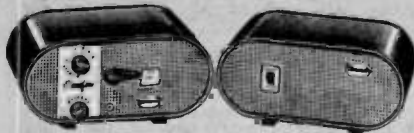
**Master-Remote System**—Consists of 1-IJM-10 Master and from 1 to 10 Model JR Remotes. IJM10 Master unit can call at will any Remote in system or all simultaneously. Remotes call master by pressing call bar; can answer Master at distances to 20 ft. from Remote. For privacy of Remote, simple instructions furnished to alter, so pressing of call bar is necessary to answer Master. 3-conductor cable (listed At Right) required from Master to each Remote.

**IJM-10 Master** in dark mahogany cost aluminum case. 4" Alnico 5 Speaker has 13 ohm voice coil. Uses 1-12AX7 1-50C5, and 1-35W4 tubes. Operates on 117 volts AC or DC. (20 Watts.) Fully U/L and CSA approved. Dimensions 7 3/8" x 6 3/4" x 5 1/2" high. Wt. 7 lbs. No. 36A206. IJM-10 Master. Mfg. List \$63.75. NET EACH **\$37.48**

**JR Remote Station** with push bar talk-listen Switch for originating call to Master. Same size as Master. Wt. 3 1/2 lbs. No. 36A207. JR Remote. Mfg. List \$18.90. NET EACH **\$11.11**

## MASCO ECONOFONE FOR 2 TO 6 STATIONS

MASTER-TO-MASTER OR MASTER-TO-REMOTE SYSTEMS



**All Master System** consisting of 2 up to 6 Masters, no remotes, permitting up to 3 pairs of stations to converse at one time. Master can call and talk with any other Master or group of Masters at one time. Any Master can call any other Master in system even though station called has power off. Ample room volume. Master has volume control with on-off switch, talk-listen switch and 5 individual station selector switches. Cable required: 1-Conductor more than No. of Masters in system, to interconnect all Masters. See Cable listing (At Right).

**Master Remote System**—Consists of 1 Master and from 1 to 5-REW Remotes. Master can call and talk to any remote or any group of remotes at one time. Remotes call Master by pressing talk-listen switch; can answer Master at distance to 10 ft. from Remote. Use 3-conductor cable (listed (At Right) from Master to each Remote.

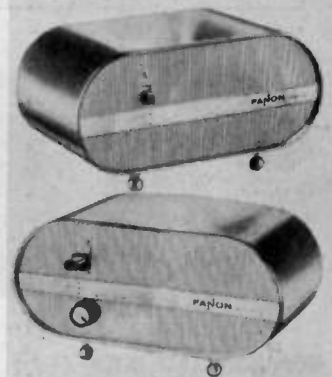
**Econofone Master** housed in light brown hammertone steel cabinets. 4" Alnico 5 Speaker has 3.2 ohm voice coil. Uses 1-12AX7 1-50C5, and 1-50DC4 tubes. Operates on 117 volts AC or DC. (20 watts). Fully U/L approved. Dimensions 6 1/2 x 4 5/8 x 4 3/8" high. Wt. 4 3/4 lbs. Mfg. List Price \$29.95. No. 36A204. Econofone Master. Each **\$21.51**

**REW Remote** housed in same size case as Master. Uses same Speaker as Master. Shpg. wt. 3 1/2 lbs. Mfg. List Price \$11.95. No. 36A205. REW Remote. Each **\$7.77**

## SLEEK, MODERN DESIGN FANFARE TWIN

**\$20.95**

MFG. LIST \$27.95



Consists of Master that requires only "plugging-in" to any 115-volt DC or AC 50-60 cy. line, plus simple connections through the 50 ft. cable (supplied) to the Remote . . . and presto . . . dependable, low cost 2-way private or non-private intercommunication for any need in home or business. Used as Nurse-Baby sitter, Remote can be left "open" to pick up all sounds in children's room or sick room! Remote can be "closed" for privacy but still able to receive any call from the master. Remote may call the Master at will—and can answer calls from the Master unit from a distance, without having to operate a press-to-talk switch. **2-Tube plus Rectifier Master Unit** has on-off switch, Volume Control, pilot light, press-to-talk switch and 6 ft. AC cord. 3 1/2-inch Alnico "V" speakers in both Master and Remote have standard 3.2 ohm voice coils. Matching all metal unbreakable cabinets 8" x 4" x 4" high. Tan enamel cabinet with white panel. Shpg. wt. 6 lbs.

No. 36B30. FX-2 "Fanfare Twin" Complete Intercom System.

Mfg. List \$27.95 **\$20.95**  
NET EACH.

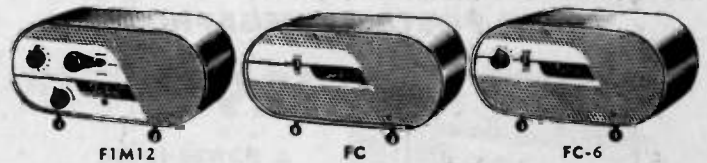
A COMPLETE 2-STATION U/L APPROVED INTERCOM "PACKAGE" SYSTEM READY TO INSTALL AND OPERATE IN A "JIFFY"

## FANON INTERMIX SYSTEM

THE MOST FLEXIBLE AND VERSATILE INTERCOM SYSTEM ON THE MARKET

DESIGNED FOR THE THREE MOST NEEDED TYPES OF OPERATION

- 1 All-Master
- 2 Master-to-Remote
- 3 Combination Masters & Remotes



These Fanon Units offer the most versatile intercom systems possible. For an All Master System use up to 12 Masters. For a Master-Remote System use one master and up to 11 FC remotes. For a Master-Remote-Intermix System—each master can accommodate up to 11 stations in any combination of masters and remotes. Use FC-6 remote when more than one master station is to be contacted. FC remote may be used in this system where contact with one master only is required.

### FIM-12 MASTER

FIM12 Master has volume control, AC On-Off switch, 12 station rotary selector switch with stand-by position, talk-listen switch with spring return and dictate position for extended talking. Each master must be powered from 110-120 V. AC or DC. Speaker is 3 1/2" Alnico V with 3.2 ohm voice coil. Power output is 2 1/2 watts. Tubes 12AU6, 50C5, and 35W4, NE-2 neon pilot lamp indicates when unit is on. Size 8 x 4 x 4". Wt. 3 3/4 lbs. Cable required in all master hook-up is one more conductor than number of masters in system (see wire listing below). Mfg. List \$44.95. U/L APPROVED. No. 36B27. FIM12 Master. NET EACH **\$26.43**

### FC REMOTE

FC Remote has call switch and can call master at will, can be installed for private or non-private operation. When private the FC must use its call switch to converse, but cannot be eavesdropped upon by Master. When non-private, the FC may reply to the master from a distance without using its switch; but uses call-switch to originate calls to its master. The FC cannot talk to other remotes. If so desired the FC may be installed so that call-switch is inoperative. In this service (baby sitting, stock rooms, etc.) the remote cannot originate calls. Remote FC does not require AC power. Uses 3 1/2" Alnico V speaker. Size 8 x 4 x 4". Wt. 2 1/2 lbs. Cable required in master to remote system is 3 conductor from master to each remote with call originating feature and 2 conductors to each remote without call originating feature. (See wire listing below). No. 36B28. Mfg. List \$13.25. FC Remote. NET EACH **\$7.81**

### FC-6 REMOTE

The FC-6 has a call switch and 6 position selector switch which can call up to 6 different Masters. In connecting up intermix system, Master connected to master requires one more conductor than number of masters in system. Remotes require 3 conductor (1 with shield) to each Master. No. 36B29. Mfg. List Price \$19.95. FC-6 Remote. NET EACH **\$11.73**

### INTERCONNECTING CABLE

2-Conductor twisted for master to remote without call originating feature.	No. 2A94. Per Ft.	2c	100 Ft.	\$1.80
3-Conductor twisted for master to remote with call originating feature.	No. 2A113. Per Ft.	4c	100 Ft.	\$2.48
7-Conductor cable with vinyl jacket overall for up to 6 station all-master system or 1 master with up to 5 remotes.	No. 2A117. Per Ft.	9c	100 Ft.	\$6.15
13-Conductor cable with vinyl jacket overall for up to 12 station all-master system or 1 master with up to 11 remotes.	No. 2B178. 100 Ft.			\$18.90
3-Conductor; (1-with shield), vinyl jacket overall. For individual remote FC or private operation of Bogen CHXR requires one length to its master. For FC-6 one length to each of its masters required.	No. 2B177. Per Ft.	5c	100 Ft.	\$3.75
	No. 2B40. 12-Cond. Intercom Cable Ft.	20c	100 Ft.	\$18.05



# THE AMAZING NEW TRANSISTORIZED LOUDSPEAKING ATTACHMENT

**FOR 2-WAY TELEPHONE CONVERSATION WITHOUT THE USE OF HANDS**



**\$29.95 LIST PRICE**  
**\$22<sup>50</sup>**  
**READY-TO-USE**

**SELF-POWERED TRANSISTOR UNIT NEEDS NO ELECTRICITY**

**NOW COMPLETE WITH EXTENSION SPEAKER**

Allows everyone in the room to hear or speak over the phone with perfect clarity. A valuable asset and convenience in business offices for conference calls, in shops or offices to free your hands for other tasks while you talk, in homes, sick rooms, kitchen, bedroom . . . almost everywhere.

Completely portable, transistor and battery powered, requires no installation of any kind. In use, the telephone handset is placed on top the unit much like returning the handset to the normal telephone cradle. Automatically the transistor amplifier turns on providing room volume for everyone to hear. Has extension speaker and adjustable volume control. When conversation is completed, the phone is simply returned to its normal position. Case is durable break-resistant block polystyrene plastic. Uses 4 standard penlight cells, less batteries. Shpg. wt. 4 lbs. Mfg. list \$29.95. **\$22.50**  
No. 36C161. Net  
No. 21A3. Penlight Battery. Net Each. . . .14c

## NEW PORTABLE MEGAPHONE



AMERICAN MADE

**\$29<sup>95</sup>**

MFG. LIST \$39.95

**A POWERHOUSE OF PERFORMANCE**



OVER 300 YARDS

- Schools
- Sports Events
- Cheer Leaders
- Construction Crews
- Industry
- Parking Lots
- Comps
- Lifeguards
- Boat Owners
- Police
- Fire Departments
- Civil Defense
- Public Gatherings

Now at a cost everyone can afford, a compact portable hand megaphone, designed for long trouble free operation. Powered by four standard flashlight batteries it has an approximate range of 300 yards, depending on noise level in area. Two separate switches permit adjustment of the volume for "low power" and "high power." Light in weight, only 3 1/4 lbs., yet durably constructed of aluminum finished in baked enamel. Easy to carry around the neck with convenient strap. Size 6 1/2" x 12 1/2". Load current: 6 volts at 200 MA. Shpg. wt. 6 lbs. **\$29.95**  
No. 36A19. (Supplied less batteries.) Net Each. . . .  
No. 36B24. Battery Kit for above. . . .56c

## NEW MAJ-I-NOUNCER 15-WATT TRANSISTORIZED PORTABLE PUBLIC ADDRESS SYSTEM



**UP TO 1 MILE COVERAGE**

**100's OF APPLICATIONS**

Perfect for group instructions and activities, athletic coaches, auctioneers, construction crews, contest judging, field demonstrations, fairs, exhibitions, fire departments, farm use, forestry service, life guards, military, plant tours, police work, safety patrol, summer camps and hundreds of other applications. Boom type microphone plugs in and leather neck strap permits hanging unit from neck leaving hands free. Long battery life, 50-100 hours average use. May be powered from 12 volt car battery if desired. Use adaptor cord listed below. Sturdy gray hammer-tone finish. Weatherproofed. (Less Battery).

- Battery-operated . . . carry and use it anywhere!
- "No Hands" operation permits complete freedom of activity.
- Weighs only 6 1/4 lbs.

No. 36C195. **\$99.50**  
Net. . . .  
No. 21A16. 2780 Battery for above. **\$2.37**  
Net. . . .  
No. 36C196. Cigarette Lighter Adaptor. Net. . . .**\$1.49**

## ALL NEW BOGEN VP10 PORTABLE RECORD PLAYER AND COMPLETE SOUND SYSTEM

MFG. LIST \$129.20

**\$96<sup>90</sup>**

BUY FROM B-A ON EASY TERMS

Now a complete 10 watt portable phonograph for school-room, dance class, etc. where quality reproduction of music and projection of voice to every point of a room is needed.



Plays all size records up to 16" at 16, 33 1/2, 45 or 78 RPM

Built to take it, yet budget priced. The record player unit is the famous Bogen B41 player which boasts an absence of audible rumble, flutter or wow. Plays all size records up to 12" at all four standard speeds (16, 33, 45 and 78 RPM), adjustable to ± 5% around the nominal speed. Case lid contains heavy duty 12" speaker with big 8 oz. ceramic magnet complete with 25' of interconnecting cable.

Amplifier has **Boss Control**: permits varying the bass response of the phono or mike signals. Continuously variable from flat up to + 15 db. Treble control: varies the treble response of the phono or mike signals from flat to - 15 db. Separate controls for microphone and phono volume. Tubes: 1-6AV6, 1-EZ81, 1-12AX7, 1-7355. Size 15 1/2" x 14" x 11 1/2". Net wt. 27 1/2 lbs. Shpg. wt. 31 lbs. Finished in black and gray. Mfg. list \$129.20. No. 32A255. **\$96.90**  
Net Each. . . .

### LEC-1 LECTURN ACCESSORY

Converts the VP10 into a portable public address system complete with lecturn. Ideal for speeches, lectures, etc. Comes equipped with a reading light, a paper rest, and a quality microphone on a swivel base. The LEC-1 measures 15x13 1/2" x 7 1/2" and is designed to be stored inside the VP-10 for complete compact portability. Mfg. list \$49.80. **\$37.35**  
No. 32A256. Net Each. . . .

## BOGEN VP20 20-WATT TRANSCRIPTION PLAYER AND P-A SYSTEM



MFG. LIST PRICE \$184.20

**\$138<sup>15</sup>**

BUY FROM B-A ON EASY TERMS

For schools, church halls, square dances, dance studios, etc.

A precision-built, time proven transcription player with variable speed control from 29 through 86 RPM plus instant positive speed selection of 16, 33 1/2, 45 and 78 RPM. Special design heavy duty 4 pole (no wow) motor drives weighted rubber padded turntable. High quality reproduction is assured with GE variable reluctance cartridge in the tone arm.

"Feather drop" action device lifts tone arm and sets it down gently on record for maximum record and stylus protection also can be used as simple cueing device. Completely housed in one case with lid acting as baffle for heavy duty 12" PM speaker. Speaker lid detaches and has 25 ft. cable with plug. Rugged case is handsomely styled and covered with water and stain resistant vinyl fabric. Inputs are provided for two (2) microphones and radio tuner. With tape and monitor outputs and 2 speaker output sockets. Compensated preamplifier includes separate volume controls for each input . . . microphone and scratch filters, treble and bass control, convenience outlet . . . separate master power switch . . . illuminated chrome panel and calibrated control knobs. Tube complement: 1-12AX7, 2-6BQ5A/7189, 1-7247, 1-EZ81. Operates 115 V. 60 cy. AC. Size, 16 1/2" x 15 3/4" x 12 1/4". Carrying wt. 40 lbs. Shpg. wt. 45 lbs. Mfg. list \$184.20. **\$138.15**  
No. 32A168. Net Each. . . .

## NEW BOGEN VP40 40-WATT TRANSCRIPTION PLAYER AND PA SYSTEM

Higher powered version of the VP20 above. Consists of two separate matching units. One unit contains transcription table and 40 watt peak power amplifier, other unit is a break away case containing two 12" heavy duty speakers with two 25 ft. cables. Tube complement: 1-GZ34, 1-12AX7, 1-7247, 2-7355. Case sizes: Phono 18 1/4" x 16 1/2" x 8 1/2" D.; Speaker 16x15 3/4" x 11 1/2" D. Operates from 115 V. 60 cy. Mfg. list \$269.50. Shpg. wt. 60 lbs. No. 32A169. **\$202.15**  
Net Each. . . .

## WHEELER SOUND POWERED TELEPHONE HANDSETS

**\$12<sup>62</sup>**

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 twisted wire as listed below.

Impact resistant handset with 3 1/2 ft. rubber cable and rubber insulated clips for quick connections. No. 37A337. **\$12.62**  
Model SPT102. Net Each. . . .  
No. 2B200. 2-Conductor wire. **\$3.99**  
100 Ft. . . .95c 500 ft. . . .



# BOGEN CHALLENGER AMPLIFIERS

**\$54<sup>60</sup>** 20-WATT  
MFG. LIST \$91.00



33-WATT  
PA  
AMPLIFIER  
MFG. LIST  
\$115.00

**\$69<sup>00</sup>**



75-WATT  
HI-POWER  
AMPLIFIER  
MFG. LIST  
\$175.00

**\$105<sup>00</sup>**



• Bogen Challenger Amplifiers have been designed to meet the requirements of most public address applications. Engineered for hours of continuous operation with a minimum of maintenance.  
Every Challenger Amplifier has these outstanding features!  
• A separate control for each mike and phono input. • All mike inputs on

front panel for easy accessibility. • Negative voltage feedback circuitry.  
• Separate Bass and Treble controls. • Constant voltage and balanced line outputs in addition to standard output impedances for easy matching and balancing of speakers. • New streamlined designs, dressed in a neutral tan tone, blend with any decor. Black panel, tan knobs with etched silver skirts.

## 20-WATT MEDIUM POWER

Uses 5 tubes: 2-6V6GT, 1-6AX5GT, 2-12AX7 in negative feedback circuit to produce full 20-watts power output with frequency response of plus or minus 2 db. 30/15,000 cps. Inputs, microphone with gain of 120 db. and phono with gain of 76 db. Outputs 4, 8, 16 and 245 ohms and 70 volt line. Other features described above. Terminal strip and two plug-in sockets for speakers; in steel case with carrying handles. Size 1 1/8" x 8 1/2" x 10 3/4" high. Wt. 20 lbs. for operation on 105-125 V. 60 cy. AC. With tubes and instructions. Mfg. list \$91.00.

No. 33A235. "Challenger" CHA20 Amplifier & Tubes. Net..... **\$54.60**  
No. 33B262. CHA20 Amplifier as listed above with 3 Speed Phono Top. Net.....\$73.50

## 33-WATT PA AMPLIFIER

A quality amplifier with outstanding features and specifications that speak for themselves. Has 2 Microphone Inputs at gain of 120 db each and Phono Input at gain of 83 db. Frequency response  $\pm 2$  db 30-15,000 cps. Output impedances of 4, 8, 16, 150 ohms and constant voltage output of 70 volts; push-pull output with negative feedback circuit provides output stability. Tubes: 2-6L6GC, 2-5Y3GT, 2-12AX7, 1-6AV6. Output terminal strip with two speaker plugs, fused AC line. Individual input gain controls. Steel cage 1 1/8" x 8 1/2" x 6 1/2" high, recessed handles. Operates on 115 V. 60 cy. AC. Wt. 22 lbs. Mfg. list \$115.00.  
No. 33A236. "Challenger" Model CHA33 Amplifier. Net..... **\$69.00**  
No. 33A244. CHA33 Amplifier as listed above with 3-Speed Phono Top. Net.....\$87.90

## 75-WATT HI-POWER

Designed to meet the need for larger auditoriums, halls, industrial plants and stadiums, this amplifier is made to withstand hours of continuous use. Features two microphone inputs with separate controls and gain of 120 db on each, phono input with separate control and gain of 85 db. Response 20-20,000 cycles  $\pm 2$  db. Output 75 watts with hum level -70 db below rated output. Two plug-in connectors for speaker line. Output impedance 4, 8, 16 and 65 ohms; 70 volt and balanced 25 volt line. Tubes: 2-7027A, 2-12AX7, 1-7247, 1-6AV6, 3-GZ34. Extractor type line fuse. In steel case, size 17 1/4" W, 12" D, 6 1/2" H. For operation on 105-125 V. 60 cycle AC. With tubes and instructions. Mfg. list \$175.00. Wt. 34 lbs.  
No. 33A237. "Challenger" Model CHA75A. Amplifier. Net..... **\$105.00**

## NEW BOGEN 25 WATT TRANSISTOR PUBLIC ADDRESS AMPLIFIER

FOR MOBILE USE

- Provides 25 watts from a 12 volt battery.
- Takes microphone plus a program source—record player, radio tuner or tape deck.

The first commercially available, fully transistorized public address amplifier offering 25 watts from a 12 volt battery. So versatile it will serve scores of PA applications . . . so small it will fit in the glove compartment of a car. The perfect amplifier for use in cars, trucks and buses for regular public address or emergency use. 25 watts of power make it ideal for fire department or police use, for disaster work and civil disturbances as well as boats, carnivals, electioneering . . . wherever a small high-powered reliable PA amplifier is needed. Unique transistorized circuitry provides maximum power with minimum battery drain. When operated from 12 volt battery, the drain is approximately 3 amperes, when operated from 6 volts, output is 6 watts and battery drain is only 1.4 amperes. There are no tubes to burn out, no vibrators to replace and it is completely hum-free. Guaranteed one full year by Bogen. Frequency response is optimized for maximum intelligibility—400 cps to 6000 cps. Gain 103 db. Less than .0% distortion at full output. Controls: microphone gain; auxiliary gain; on-off; 6 volt-12 volt selector (inside chassis). Inputs (2) low imp. microphone; aux. (tuner, tape, phono). Size 3 3/4" x 4 3/8" x 6 5/8" high. Wt. 3 lbs. Shpg. wt. 5 lbs. List price \$120.00.  
No. 36A39. Net Each..... **\$72.00**

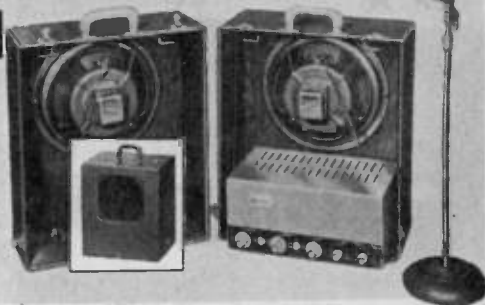
## BOGEN CHALLENGER 33-WATT PORTABLE SYSTEM

EXTREMELY VERSATILE . . . PERFECT FOR DANCE BANDS, SCHOOL FUNCTIONS, ROAD SHOWS, THEATRE GROUPS

MFG. LIST \$249.00

**\$149<sup>95</sup>**

- Completely self-contained,
- Heavy duty 12" speakers,
- Quality Electro-Voice 664 Mike.



Designed for medium power applications; this deluxe quality system will handle most of the portable public address needs. Complete system is easily carried in single carrying case. Break away carrying case houses 2 top quality heavy duty 12" PM speakers, each with 25' cable and plug. Mike stand is fine quality floor stand of high-gloss double chrome plated brass. Easily adjustable from 35 to 64" in height with weighted 10" dia. base finished in baked wrinkle enamel.

No. 33A233. Complete 33-Watt Portable System. Net..... **\$149.95**  
No. 33A234. Portable System as listed above with 3-Speed Phono Top. Net..... **\$168.85**

## NEW B-A 25 WATT ALL-TRANSISTOR

MOBILE  
AMPLIFIER

**\$72<sup>87</sup>**

- Low Current Drain
- Cool Operating



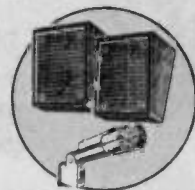
Operates from 12 volt DC source. Plugs into car cigarette lighter receptacle. Ideal for sound trucks, picnics, outdoor meetings, boats, planes or anywhere AC current is not available. 4-speed phono top available as accessory.

Specifications: Power output 25 watts. Frequency response  $\pm 2$  db 80 to 12,000 cycles. Controls: microphone, phono, bass, treble and power. Output: 4, 8 and 16 ohms. Input sensitivity: microphone .0001 volt at 50-150 ohms. Phono .2 volt high impedance. Noise level: phono -80 db and microphone -60 db below rated output. Current drain: idle .43 amps; 3.5 amp @ 12 volts DC of full power. Other features: low impedance microphone connector; fused. Size: 11" W, 3 1/2" H, 8" D. Weight 8 1/2 lbs.  
No. 33A106. Less Phono Top. Net..... **\$72.87**  
No. 33A107. 4-Speed Phono Top for above. Net.....\$32.37

## 33-WATT DELUXE INDOOR SYSTEM

An outstanding system for medium power applications. Perfect for average-sized school auditoriums, churches, etc. System includes Bogen Challenger CHA33 33-Watt Amplifier, Two 12" heavy duty PM Speakers, Two solid walnut furniture finished Baffles, Electro-Voice 664 Dynamic Microphone with 18 ft. cable. High quality floor mike stand adjustable from 35 to 64" in height. 50' coil of speaker wire with 2 connecting plugs. Amplifier design permits adding one more microphone plus addition of phono, tuner or tape recorder.

No. 33A240. Complete Indoor System..... **\$154.95**  
No. 33A241. Indoor System as listed above with 3-Speed Phono Top. Net..... **\$173.85**



FOR UP TO 2000 PERSON COVERAGE

## ADD AUTOMATIC RECORD CHANGER TO ANY SYSTEM

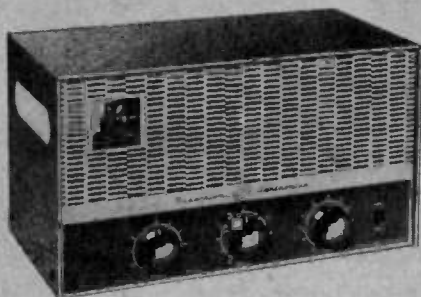
Famous-make Record Changer mounted in luggage type carrying case. Plugs into any amplifier or PA System to give more than four hours of uninterrupted program material from a stock of ten twelve inch LP records. Plays all sizes and all 4 speeds; intermixes 10" and 12" records; 45 RPM spindle available; plays manually or automatically. Equipped with famous make turnover cartridge with dual sapphire stylus for trouble-free service. Complete with 6' line cord and 72" phono connector cord and plugs. Wt. 17 lbs.  
31C237. \$64.95 Value. Net. **\$39.95**  
22A352. 45 RPM Automatic Spindle. **\$1.82**





\$29<sup>10</sup>

10-WATT  
AMPLIFIER



\$41<sup>67</sup>

20-WATT  
AMPLIFIER



\$51<sup>60</sup>

30-WATT  
AMPLIFIER



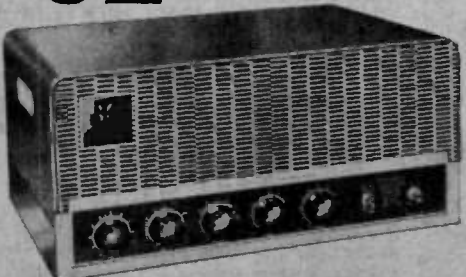
\$80<sup>97</sup>

60-WATT  
AMPLIFIER



\$82<sup>92</sup>

30-WATT  
MOBILE  
AMPLIFIER



## FOR THE BEST BUY IN SOUND SELECT FROM B-A's OWN QUALITY AMPLIFIERS

**GUARANTEED ONE FULL YEAR AGAINST DEFECTS  
IN MATERIALS AND WORKMANSHIP!**

The answer to every sound installation is in the selection of the proper amplifier for the particular job. These B-A amplifiers and the systems on page 109 offer complete flexibility, excellent response and easy installation to cover

any sound problem in industry, office or home. Economy, modern styling plus famous B-A full year guarantee assures you more from your Sound Dollar at B-A.

### B-A's 10-WATT PA 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:** Tubes 12AX7, 6L6GC, EZ80/6BW4 rectifier. **Peak Power** 12 watts. **Input gain:** microphone 105 db, phono 65 db. **Freq. resp.** 40 to

10,000 cps.  $\pm$  1 db. **Controls:** microphone, phono, tone, power off-on. **Inputs:** 2, 1-microphone and 1-phono. **Output impedances:** 4, 8, 16 ohms and 500 ohms (70 volt line). **Hum and noise:** 60 db below rated output. **Power consumption:** 70 watts, 110/120 V. AC. 60 cps. **Size** 10 1/2" W, 5 1/2" D, 6" H. **Shpg. wt.** 12 lbs.

**No. 33A128. Net Each (With Tubes).....\$29.10**

### B-A's 20-WATT PA 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. Covers up to 50,000 square feet when used with trumpet type speakers. Finished in baked hammerloid enamel cage.

**Specifications:** Tubes: 2-6EU7, 2-6BQ5/EL84, 1-EZ80/6BW4 (rectifier). **Input Gain:** microphone 120 db; phono 80 db. **Freq. resp.** 30-15,000 cps  $\pm$  1-db. **Tone controls:** bass  $\pm$  15 db at 50 cps.; treble  $\pm$  15 db at 10,000 cps. **Power output:** 20 watts. **Inputs:** 2, 1-microphone and 1-phono.

**Output impedances:** 4, 8, 16 and 70 volt line

(250 ohms). High impedance output for coupling booster amplifier. **Hum level** 68 db below rated output. **Controls:** 5; microphone, on-off, bass, treble, phono. **Power consumption:** 75 watts, 117 volts 60 cycles AC. **Size** 14" W, 8" D, 6" H. **Shpg. wt.** 17 lbs.

**No. 33A129. (With Tubes less Phono Top) Net.....\$41.67**

**4-SPEED PHONO TOP** for above 20-Watt Amplifier. Attaches easily and quickly. With constant speed motor, turnover cartridge for playing 78, 45, 33 1/3 and 16 RPM records, two long lasting needles, arm rest and plug connection for 117 volt 60 cycles.

**No. 33A156. 4 Speed Phono Top. Net.....\$17.80**

### B-A's 30-WATT PA AMPLIFIER

So powerful and dependable that it answers 90% of all needs for PA Amplifiers. Perfect power for small theatres, bands, churches, stores, auditoriums, carnivals, night clubs, industrial plants, etc. Low priced and quality construction assures extra profits when used in rentals. Separate bass and treble tone controls permits adjustment to meet all acoustical conditions. Provides coverage up to 100,000 square feet when used with trumpet type speakers. Input mixing is for 2 microphones and phono channels. Cabinet finished in hammerloid tan and bungundy.

Phono top may be added (see below).

**Specifications:** 30 watts. **Freq. resp:** 30 to 15,000

cps  $\pm$  1 db. **Controls:** microphone-1, microphone-2, phono-bass, treble, power off-on, slide switch for operating magnetic phono through channel 2.

**Output:** 4, 8, 16 and 250 ohms (70 volt line at 20 watts). High impedance output for coupling booster amplifier. **Gain:** microphone 125 db, phono 80 db. **Hum and noise** 70 db. below rated output. **Tubes:** 3-6EU7, 2-6L6GC, 5U4GB. **Size** 14" W, 6" H, 8" D. **Shpg. wt.** 18 lbs. For 117 volt 60 cps AC. Fused.

**No. 33A130. (With Tubes less Phono Top) Net.....\$51.60**

**No. 33A156. 4-Speed Phono Top for above..\$17.80**

### B-A's 60-WATT PA 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. Uses popular high fidelity high power output tubes type 6CA7/EL34 for wide range 30-15,000 cps frequency response. 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:** 60 watts. **Freq. resp:** 30 to 15,000 cps  $\pm$  1 db. **Controls:** microphone-1, micro-

phone-2, phono, bass, treble, power off-on, slide switch for operating magnetic phono through channel 2. **Output:** 8, 16, and 84 ohms (70 volt line at 60 watts). High impedance output for coupling to booster amplifier. **Gain:** microphone 130 db. **Phono** 80 db. **Hum and noise** 72 db below rated output. **Tubes:** 3-12AX7, 2-6CA7/EL34, 2-5U4GB, 6973. **Size** 16" W, 6 1/2" H, 10" D. **Shpg. wt.** 45 lbs. 117 volts 60 cps. AC. Fused.

**No. 33A154. Complete with Tubes Less Phono Top, Net.....\$80.97**

**No. 33A193. 4-Speed Phono Top for above. Net.....\$19.84**

### 30-WATT UNIVERSAL MOBILE PA AMPLIFIER

OPERATES ON 6 AND 12 VOLT DC AND 117 VOLT AC

A high power combination 6 or 12 V. DC battery and 117 volt AC PA amplifier for sound trucks, cattle auctions, circuses, ball parks, fairs, group picnics, political rallies, beaches, parks, boats, planes or anywhere it is desirable to have mobile or battery powered operation. DC to AC operation is accomplished by changing "plug-in" power cables. Change 6 to 12 volt DC operation by switch on top of chassis. Features separate bass and treble controls for correct attenuation or boost as required. "Economizing" switch cuts battery drain while amplifier is on "standby."

**Specifications:** 30 watts output, freq. resp.  $\pm$  2 db 30-15,000 cps. **Controls:** microphone-1, micro-

phone-2, phono, bass, treble, power off-on, slide switch for operating magnetic phono through channel 2. **Output:** 4, 8, 16 and 250 ohms (70 volt line at 20 watts). **Gain:** microphone 125 db. **Phono** 80 db. **Hum and noise:** 70 db below rated output (AC operation). **Tubes:** 3-12AX7, 2-6L6GB, 2-6X5GT. **Size** 16" W, 10" H, 10" D. **Shpg. wt.** 33 lbs. Separate fuses for AC and DC.

**No. 33A142. Complete with Tubes Less Phono Top. Net.....\$82.92**

**No. 33A193. 4-Speed Phono Top for above. Net.....\$19.84**

# SAVE \$\$\$ ON PA SYSTEMS AT B-A!

## ① B-A 2-SPEAKER 20-WATT FIXED SYSTEM

- Choice of lavallier, floor stand or desk-hand held microphone.
- 2-Heavy duty 12" speakers. 2-Walnut baffles.
- 4-Speed phono top may be added.

An exceptional value 20 watt fixed system. Beautiful walnut baffles make an attractive installation for offices, small dance halls, dance studios, Sunday schools, small auditoriums, meeting halls, etc. For areas up to 12,000 sq. ft. The complete fixed system includes 20 watt B-A amplifier (listed on page at left), 2-6.8 oz. 12" heavy duty PM speakers; 2-35' speaker cables and plugs; 2 walnut wooden wall baffles; your choice of either the Electro-Voice 7275 microphone with on-off switch complete with detachable base for desk table top and 5' attached cord or Turner crystal microphone with 12' of cable, complete with lavallier bracket and strap plus floor stand mounting bracket and B-A leader value floor stand adjustable 35" to 64".

**B-A's 20 Watt Fixed System complete with Electro-Voice 7275 Microphone (less phono top) \$79.95**  
No. 49A86. Net.....

**With Turner Microphone, lavallier accessories, floor stand bracket and B-A's leader floor stand otherwise as above. \$83.65**  
No. 49A87. Net.....

**4-Speed Phono Top for B-A 20 Watt Amplifier. \$17.80**  
No. 33A156. Net.....

## ② B-A 2-SPEAKER 20-WATT PORTABLE SYSTEM

- Choice of lavallier or desk-stand microphone.
- Two heavy duty 12" speakers.
- Heavy duty leatherette covered carrying case.
- 4-Speed phono top may be added.

A complete ready to operate 20 watt portable PA system featuring B-A's own 20 watt amplifier (shown on page at left). Ideal for lectures, combos, small groups, auctions, etc. Also perfect for rentals.

Consists of 20 watt amplifier, 2 heavy duty 6.8 oz. 12" PM speakers each with 35' cable and plugs. Portable break away leatherette covered carrying case mounts entire system for easy carrying and operation. Choice of versatile Turner crystal or E-V 7275 mike. Turner mike is complete with lavallier accessories and B-A's leader value adjustable (35" to 64") floor stand, for hand held, stand mounting or lavallier use. E-V 7275 mike with on-off switch includes 5' cord and desk base.

**B-A's 20 Watt Portable System complete with Turner crystal microphone and accessories above. \$81.76**  
No. 49A84. (less phono top). Net.....

**With Electro-Voice 7275 Mike and Desk Base, otherwise as above. \$77.97**  
No. 49A85. Net.....

**4-Speed Phono Top for B-A 20 Watt Amplifier. \$17.80**  
No. 33A156. Net.....

AS LOW AS  
**\$79.95**

Turner 300 EV7275

AS LOW AS  
**\$77.97**

Turner 300 EV7275

## B-A's 30-WATT PORTABLE SYSTEM

AS LOW AS  
**\$99.95**

EV664 EV951

A complete 30 watt portable system for 90% of all public address needs... perfect for large halls, auditoriums, gyms, churches, lecture halls, tent revivals, etc.

Features B-A's 30 watt feature-packed amplifier (listed on page at left), two heavy duty 6.8 oz. 12" speakers, each complete with 35' cable and plug, split type carrying case size 15x17x20" provides separate baffles for the two speakers plus convenient secure carrying case for the amplifier. Your choice of Electro-Voice regular \$85.00 list 664 cardioid dynamic microphone or the new Electro-Voice \$49.50 list 951 high quality crystal microphone. Both mikes have on-off switch, 18' detachable cable and plug and are supplied with B-A's leader value floor stand adjustable from 35" to 64". Amplifier operates from 117 V. 60 cy AC. Shpg. wt. 74 lbs. Supplied less phono top.

**B-A's 30 Watt System with E-V 664 Dynamic Mike. \$115.39**  
No. 49A94. Net.....

**B-A's 30 Watt System with E-V 951 Crystal Mike. \$99.95**  
No. 49A95. Net.....

**33A156. 4-Speed Phono Top for above. \$17.80**

## 2-SPEAKER 30-WATT FIXED SYSTEM FOR INDOORS & OUTDOORS

MORE VERSATILE THAN EVER! CHOOSE THE SPEAKERS AND MICROPHONES FOR THE JOB!

EV664 Dynamic EV951 Crystal EV848CDP Projectors University Trumpets Wood Baffles & 12" Speakers

AS LOW AS  
**\$110.12**

- Choice of E-V 664 dynamic or E-V 951 high quality crystal mike.
- 2-12" 6.8 oz. speakers and solid wood baffles for indoors.
- 2 Electro-Voice 848CDP or 2-University ID30 drivers and PH trumpets.

Designed for large halls, industrial plants, gyms, playing fields, auditoriums, music systems for stores, restaurants, etc. Good general duty amplifier plus quality matching components assure long trouble-free operation.

### 30 WATT INDOOR SYSTEMS

B-A 30 watt amplifier 2-12" 6.8 oz. heavy duty speakers, two fine quality hardwood baffles, 150' speaker cable, 2 speaker plugs, B-A leader value floor mike stand with EV 664 microphone (less phono top).

**No. 49A88. Net. \$126.03**  
**With E-V 951 Microphone otherwise as above. \$110.12**  
**No. 49A89. Net.**

### 30 WATT OUTDOOR SYSTEMS

B-A 30 watt amplifier with 2 E-V 848CDP horns, 150' speaker cable with 2 plugs, B-A leader value floor mike stand and E-V 664 microphone (less phono top).

**No. 49A90. Net. \$167.71**  
**With 2 University PH Trumpets and ID30 Driver Units otherwise as above. \$169.31**  
**No. 49A92. Net.**  
**With E-V 951 Microphone otherwise as No. 49A90. \$161.49**  
**No. 49A91. Net.**  
**With 2 University PH Trumpets and ID30 Driver Unit otherwise as No. 49A91. \$154.40**  
**No. 49A93. Net.**

## B-A's 60-WATT HI-POWER FIXED SYSTEM FOR INDOORS OR OUTDOORS

### 30-WATT MOBILE SYSTEM FOR 6V-12V. BATTERY, 117 V. 60 CY. AC

AS LOW AS  
**\$199.95**

EV664 EV624

Provides the versatility of two systems for the price of one. Plenty of power for any job mobile, outdoor or indoor. Covers areas up to 100,000 square feet. Operates from any 6 V. or 12 V. DC automobile, truck or bus storage battery or from 110-125 volts 60 cycles AC.

**Complete System includes B-A 30 watt amplifier (as listed on page at left), with 4 speed phono top, 2 Electro-Voice 848CDP projectors with 80' 2 cond. cable, 1 E-V 624 lavallier mike with 18' attached cable all ready to plug together. \$199.95**  
No. 49A82. Net.....

**With 4-speed phono-top. Net. \$199.95**  
**Same System as above but with Electro-Voice 664 Microphone. \$219.95**  
No. 49A83. Net.....

EV664 EV605

AS LOW AS  
**\$217.92**

Recommended for all high power heavy duty requirements, such as athletic fields, church steeple systems, industrial plants, railroad yards, airports, etc.

### 60 WATT OUTDOOR FIXED SYSTEMS

Includes B-A's 60 watt PA amplifier (see page at left), 4 Electro-Voice 848 compound diffraction projectors, the modern way for better sound saturation, E-V 664 dynamic microphone, B-A's leader value 35" to 64" adjustable floor stand (less phono).

**No. 49A96. Net. \$263.61**  
**With 4 University PH Trumpets, 4 ID30 Drivers otherwise as above. \$266.79**  
**No. 49A98. Net.**  
**With Electro-Voice 605 Mike and Desk Top Touch-to-talk Stand otherwise as No. 49A96. \$235.71**  
**No. 49A97. Net.**  
**With 4 University PH Trumpets with 4 ID30 Drivers otherwise as No. 49A97. \$239.89**  
**No. 49A99. Net.**

### 60 WATT INDOOR FIXED SYSTEMS

Includes B-A's 60 watt PA amplifier (shown on page at left), 8-6.8 oz. 12" heavy duty speakers with matching transformers, 8 12" solid wood walnut baffles, Electro-Voice 664 dynamic microphone complete with B-A's leader floor stand (less phono top).

**No. 49A100. Net. \$245.82**  
**With Electro-Voice 605 Microphone and Desk Top Touch-to-talk Stand otherwise as above. \$217.92**  
**No. 49A101. Net.**  
**4-Speed Phono Top for B-A 60 watt amplifier. \$19.84**  
**No. 33A193. Net.**  
**See page 62 for speaker wire.**



## UNIVERSITY WEATHERPROOF TRUMPETS AND DRIVER UNITS



COBRAFLEX 2

All metal Reflex Trumpets for Directional Sound Projection. Pioneered by University to represent the most efficient method of converting electrical power into acoustic energy to cover every public address requirement. Fully weatherproof trumpets with rubber rim to prevent resonant vibrations. Used with drivers below for continuous long life music or voice reproduction.

### TRUMPETS LESS DRIVERS

Stock No.	Mfgs. Model	Bell Dia.	Horn Length	Low Cutoff	Air Column	Wt. Lbs.	Net Each
40A23	PH	20 1/4"	15 3/4"	150 CPS	3 1/2"	11	\$20.07
40A22	SMH	16 1/4"	12"	200 CPS	2 1/2"	9	\$18.98

**COBRAFLEX-2**—"dual exponential flair" gives wide angle coverage of clear, crisp sound over a large area. In sound car use Cobraflex-2 hugs close to car top—heavy cast aluminum construction eliminates troubles from vibration or weather! In other sound applications as freight yards, grandstands, auditoriums, etc., this unusual and dependable TWIN TRUMPET will replace the need for two trumpets of the usual design in many locations; with better results. Requires only one of drivers listed below—or if extreme power is needed, use two drivers and the 2YC connector. Low freq. cutoff 250 CPS. 18 1/2" W x 9 1/4" H x 10 1/4" D. Wt. 12 lbs. less driver. No. 34B184. **\$23.67**

### BREAKDOWN-PROOF ALL WEATHER DRIVER UNITS

New series drivers offers highest quality sound possible. All are hermetically sealed. To be used with reflex trumpets or radial projectors. These PM dynamic drivers, have molded phenolic diaphragms and exclusive University rim centering to give long lasting trouble free service. 1 3/8"-18 thread.

Stk. No.	Mfg. Model	Full Range Watts	Adj. Range Watts	Range Cps.	V.C. Imp.	Shpg. Wt. Lbs.	Net Each
34A85	ID-20	20	40	120-6,500	16	3	\$14.70
31B25	ID-30	30	50	185-7,500	16	3 3/4	18.52
34A86	ID-40	40	60	80-12,000	16	4 1/2	23.23
34A87	†ID-40T	40	60	80-12,000	16	5 1/4	31.02
34A88	ID-60	60	100	70-12,000	16	5 3/4	31.02
34A89	†ID-60T	60	100	70-12,000	16	6 1/4	37.19

†Transformer Impedance: ID-40T-45/122/250/500/1000/2000 Ohm. ID-60T-16/80/165/250/500/1000/2000 ohm.

†70 V. Line Power Taps: ID-40T-40/20/10/5/2.5 watts. ID-60T-50/30/20/10/5/2.5 watts.

No. 31A48. 2YC connector. For using 2 drivers on 1 Trumpet. Ea. \$7.78

### INTERCOM TALK BACK & PAGING SPEAKERS

All weatherproof, breakdown-proof units designed to fit the needs of indoor or outdoor systems requiring concentrated power to cover small areas with low output PA systems. For all industrial or communication requirements where constant and reliable sound plus maximum punch and intelligibility is a must.



1B-A MIL-A

CIB

**Model 1B-A.** New version of the world's most widely used medium power speaker, with full 25 watts (50 watts \*adjusted range) continuous duty power capacity and improved lower frequency response to 250 cps. Tropicalized, weatherproof for trouble-free lifetime operation. 90 degree wide angle dispersion. Frequency response 250-13,000 cps. Universal swivel mtg. bracket. Size 10 1/4" dia. x 9 1/4" deep. Shpg. wt. 4 lbs.

No. 34A132. Model 1B-A. 8 ohm voice coil. Net Each **\$20.29**

**Model MIL-A.** 7.5 watt. Full range \*15 watts adjusted range. New improved version of the family MIL series with improved lower frequency response to 350 cps. Excellent for limited areas and filling in "dead" spots. Tropicalized, hermetically sealed. Frequency response 350-13,000 cps. 120 degree dispersion. Has universal swivel mtg. bracket. Size 7 1/8" dia. x 6 7/8" deep. Shpg. wt. 3 1/2 lbs.

No. 34A106. Model MIL-A. 8 ohm voice coil. Net Each **\$16.67**

No. 34B118. Model MIL-A. 45 ohm voice coil. Net Each **\$17.44**

**NEW MODEL CIB-A25-WATT FULL RANGE, \*50 WATT ADJUSTED 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 300-13,000 cps. response. Excellent "talk-back" characteristics. Steel reinforced fiberglass/polyester horn gives superior acoustic qualities and resistance to physical abuse. New Omni-Lok swivel bracket directs sound where desired. Size 7 3/8" x 14" x 12". Shpg. wt. 5 1/2 lbs.

34A183. Model CIB-A with 8 ohm voice coil. Net Each **\$27.05**

\*TO OBTAIN "ADJUSTED RANGE" RATINGS where given on University Speakers it is only necessary to add factory recommended capacitance in series with speaker input. Complete instructions with each speaker.

## ELECTRO-VOICE WEATHERPROOF FULL RANGE SPEAKERS



848

MFG. LIST \$82.50

**\$48<sup>51</sup>**

**MUSICASTERS  
REALISTIC  
MUSIC AND  
SUPERIOR  
REPRODUCTION**

**MUSICASTER**—Here's a speaker system with which you can easily set up a music system with true high-fidelity performance. Compact and portable, the Musicaster has a sturdy aluminum diecast housing. Finished in Mesa Tan, it protects the weatherproof cone speaker and extends bass response through back-loaded folded horn. Dual Radax cone radiates smooth useful highs through 120° angle. Can be mounted anywhere or used as a portable speaker. The Musicaster's clean, wide-range reproduction is ideal for square dances, school auditoriums, clubs, outdoor hi-fi or anywhere that music and voice must be reproduced with maximum clarity.

Provisions for mounting 70.7-volt line transformer inside. Frequency response 60-13,000 cps. 8 ohms impedance. Dispersion 120°. Power handling capacity 30 watts program. Sound pressure level 110 db. Size 21 1/2" x 21 1/2" x 8 1/2". Shipping wt. 34 lbs. Mfg. list \$90.00.

No. 34A277. Musicaster with 8-ohm voice coil. Net Each **\$52.92**

**MUSICASTER II**—Same fine performance as Musicaster except has added brilliance and coverage of VHF driver. Smooth response to 18 kc. 36 lbs.

No. 34A280. Musicaster II with 8-ohm voice coil. Mfg. List \$125.00

Net Each **\$73.50**

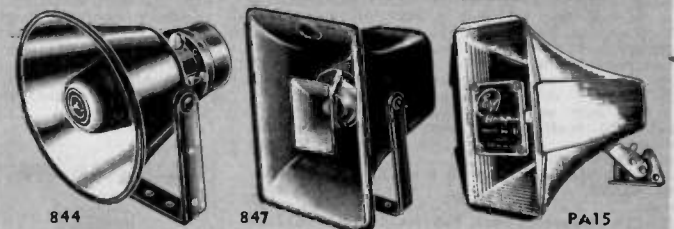
MB-1—Mounting bracket for Musicaster in neat flat-against-wall installations. No. 37A221. Model MB-1 Mount. Net Each **\$2.66**

**848 COMPOUND DIFFRACTION PROJECTOR.** The quality way to outdoor PA sound. A wide-range horn and driver system using single driver unit plus high and low frequency horns coupled to both sides of the diaphragm. The outer horn is fabricated of fiberglass and polyester resin for strength, light weight and resistance to corrosion. Provides better than twice the sound distribution of ordinary reentrant or multi-cellular horns of comparable size. Smooth, peak-free sound with extended high-frequency response is the result of this exclusive EV development. Specifications: Freq. resp. 150-10,000 cps. Power handling capacity 30 watt program, 60 watts peak. Imp. 16 ohms. Acoustical crossover: 1000 cps. Dispersion 90° horizontal, 120° vertical or mounted horizontally, 120° horizontal, 90° vertical.

Mounting: universal "U" bracket. Size 20 1/2" H, 10 1/2" W, 20" D, Wt. 13 1/2 lbs. net. Shpg. wt. 15 lbs. Mfg. list \$82.50.

No. 40A9. Net Each **\$48.51**

### PUBLIC ADDRESS LOUDSPEAKERS PAGING AND TALK-BACK SPEAKERS



844

847

PA15

#### MODEL 844 PAGING PROJECTOR

A compact general purpose speaker system featuring natural voice reproduction and high intelligibility. The rugged, die-cast horn assembly and sturdy mounting bracket assure minimum maintenance after installation. Feature removable 30 watt driver.

Specifications: Freq. resp. 250-13,000 cps. Imp. 8 ohms, dispersion 90°. Size 9 7/8" dia. x 8 7/8" D. Wt. 5 lbs. 10 oz. net. Mfg. list \$36.50

No. 40A5. Net Each **\$21.46**

#### MODEL 847 CDP PROJECTOR

Wide-range paging speaker uses a single driver unit with two coaxially mounted horns mounted to opposite sides of the single diaphragm. Practically indestructible horn is made of fiberglass and polyester resin. Combines strength, weather resistance, and light weight. Smooth peak-free frequency response characteristics reduces feedback and provides more natural voice and music reproduction. Tailored bass range allows amplifier energy to be restricted for most efficient operation. Specifications: frequency resp. 250 to 10,000 cps. 25 watt program power handling capacity. Imped. 16 ohms. Dispersion 90° x 120°. Crossover 1500 cps. Mfg.: easy-off-steel "U" bracket. Three 3/8" holes in line on 1 1/2" center. Size 11 3/4" H, 7 3/4" W, 10 1/2" D.

No. 40A7. Net Each **\$29.99**

#### NEW MODEL PA15 PAGING SPEAKER

Compact paging speaker of unusually rugged construction. Entirely die-cast, finished in neutral mesa tan. Response is smooth and rising in the voice range for best intelligibility with maximum efficiency. Replaceable driver makes field service easy. Installs by unique swivel mount. Where 70.7 volt lines are used the PA15T with its built-in matching transformer speeds installation and lowers the cost. Completely weatherproofed for operation in any climate.

Specifications Model PA15: Freq. resp 350-13,000 cps. power handling capacity 15 watt program. Imped 8 ohms. 120° dispersion. Wt. 4 1/4 lbs. net. Size 9" H, 6" W, 9 1/2" D. Mfg. list \$30.00.

No. 34A200. Net Each **\$17.64**

Model PA15T. Same as above but with built-in transformer topped at 1.5, 2.5, 5, 10, 15 watts; 3300, 2000, 1000, 500, 350 ohms. Wt. 4 1/2 lbs. Mfg. list \$36.00.

No. 34A201. Net Each **\$21.17**

## NEW POPULAR THIN LINE DESIGN WALL BAFFLES WITH SPEAKERS FEATURING JENSEN 8-INCH PROFILE SPEAKER

MFG. LIST \$16.50  
**\$9.70**

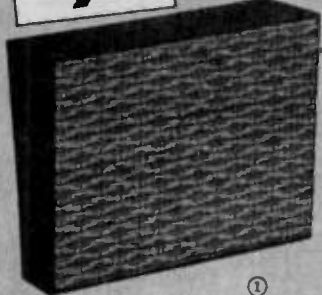
AT LOW, LOW COST

SAVES  
SPACE

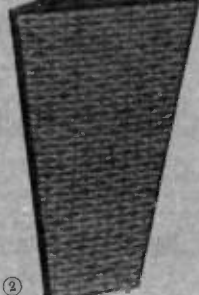
LOOKS  
BETTER

SOUNDS  
BETTER

MFG. LIST \$22.75  
**\$13.38**



① WALL BAFFLE



②

Here at last is a good-looking all purpose baffle complete with fine quality speaker that meets every conceivable sound distribution need. Fine for the home as an extension for the Hi-Fi, TV or radio, for the church, school or office for PA and background music, or for any other application where up to 15 watts of audio power handling ability is needed. Speaker has 6 oz. ceramic magnet, 8 ohm voice coil. Baffle is wood in choice of walnut or blond fabric finish, with entire front covered by attractive grille cloth. Size 12x9 1/2x4 1/4". Shpg. wt. 4 1/2 lbs. Mfg. List \$16.50.

No. 34A83. Specify Blonde or Walnut. Net Each.....**\$9.70**

No. 34A84. With Volume Control (L Pad). Net Each.....**\$12.10**

Some as 34A84 with L Pad, in addition has 70.7 volt line transformer for use in multiple speaker installations. Mfg. List \$25.15. Shpg. wt. 4 3/4 lbs.

No. 40A278. Specify Blond or Walnut. Net Each.....**\$14.55**

### ③ CORNER BAFFLE

Slanting corner thinline speaker and baffle. Ideal for patio family room, corner of room or shelf, churches, etc. Combination of slanting corner and bass reflex design provides exceptional performance, both in area coverage and quality of sound. Slip on mounting brackets and clip in front for speedy, easy installation. Same speaker as in wall baffle above. 8 ohm output. 18" H x 12 1/2" W at top, 6 3/4" D at top. Wt. 5 1/2 lbs.

No. 40A279. Mfg. List \$22.75. Specify Blond or Walnut. Net Each.....**\$13.38**

### POPULAR JENSEN 8-INCH PROFILE SPEAKER

#### SAME SPEAKER USED IN ABOVE BAFFLES

Rugged, dependable, ideal choice for background music system in offices, stores, restaurants, homes, etc. Extended high frequency range, smooth response and wide angular coverage for excellent music reproduction. Syn-tax-6 ceramic magnets gives 1/2 to 2 db more acoustic output than speakers employing 6.8 oz. Alnico V magnets. Extremely shallow to permit in-the-wall mounting (requires just 3" depth). 1 inch 8 ohm V.C. Rated 12 watts. Wt. 2 1/4 lbs.

No. 22A68. Model C8-RC. Mfg. list \$12.95. Net Each.....**\$7.77**

### DELUXE DAVIS CORNER ENCLOSURE

#### FOR 8" AND 12" SPEAKERS

A completely enclosed baffle for corner or wall-ceiling installation. Scientifically designed of extra heavy wood with construction that assures it to be vibration and rattle free. Speaker opening is of bass reflex design assuring maximum bass response. Interior is lined with acoustical insulation. Hi-fi Saran grille material used with gold ornamentations. Beautiful furniture finish in walnut or natural blonde. Specify color choice.

Model C-8 for 8" speakers. Size 14 x 12 1/2 x 6 1/2". Shpg. wt. 7 lbs.

No. 34A175. Net Each.....**\$10.42**

Model C-12 for 12" speakers. Size 20 1/2 x 17 3/4 x 9" Shpg. wt. 12 lbs.

No. 34A155. Net Each.....**\$14.25**

### DAVIS HARDWOOD WALL BAFFLES

Built of solid hand rubbed furniture finished walnut or oak. Mortised and glued construction with 3/8" front panel and full 5/8" slides. Speaker mounts behind modern non-sag saran plastic grille. Strictly "at home" in the finest paneled interiors where beauty of design and decor are essential. For halls, school rooms, paging systems, wherever good sound distribution is necessary. Complete with speaker mounting hardware and wall hanger. Shpg. wts.: 8 inch, 3 lbs.; 12 inch, 6 lbs.

Stk. No.	Speaker Size	Finish	High	Wide	Deep	Net Ea.
34B244	8"	Natural Walnut	10 1/2"	10 1/4"	6 3/4"	\$5.62
34B246	8"	Blonde Oak	10 1/2"	10 1/4"	6 3/4"	5.62
34B245	12"	Natural Walnut	14 1/4"	14"	9 5/8"	7.50
34B247	12"	Blonde Oak	14 1/4"	14"	9 5/8"	7.50

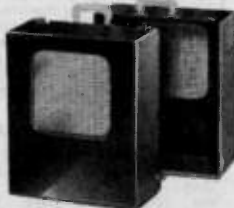
### LOWEST PRICE ANYWHERE! PORTABLE SPEAKER CASE

SUGGESTED MFG.  
LIST \$21.00

**\$12.95**

DUAL SPEAKER - AMPLIFIER CASE. For TWO 12" speakers, amplifier space of 14x16x8"; overall size, 15x17x20". Wt. 13 lbs. Plywood leatherette covered.

No. 40A131. NET EACH.....**\$12.95**



## NEW HIGH FIDELITY "SPACE-SAVER" 2-WAY SPEAKER SYSTEM

MFG. LIST \$29.95

**\$17.59**

ONLY 3 3/4-IN. THIN  
WITH 8-IN. JENSEN  
WOOFER AND 3 1/2-IN.  
JENSEN TWEETER

Ideal for Schools, Hospitals, Churches, Auditoriums, Restaurants, Theatres, Stores, Lobbies or Wherever A High Quality Extension Speaker is Needed.



MOTELS OR HOTELS

PATIO

IN THE HOME

Actually provides high fidelity sound . . . for superior to regular PA wall baffles and standard speakers. Ducted port perfectly matches 8" Jensen Profile woofer and cabinet for best bass reproduction. 3 1/2" Jensen tweeter with wired in crossover network provides clean crisp highs.

Pretty as a picture (and taking scarcely more space). Beautiful natural hardwood, light American walnut or whitened birch finish. Sizes 18" x 12" x 3 3/4" thin. Baffle with 8" Jensen woofer (with 6 oz. ceramic magnet) woofer and 3 1/2" tweeter. 8 ohm. Impedance. Shpg. wt. 6 1/2 lbs. Mfg. List \$29.95.

No. 40A284. Light American Walnut.....**\$17.59**

No. 40A285. Whitened Birch Finish.....**\$17.59**

### NEW HIGH EFFICIENCY CORNER BAFFLES

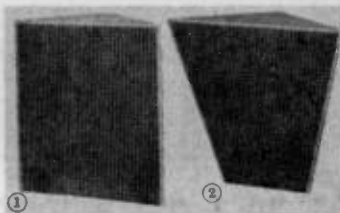
#### FOR 8 AND 12 IN. SPEAKERS

MFG. LIST \$12.50

**\$7.34**  
① 8-IN.

#### NEW SLOTTED BACK MAKES HANGING EASY!

"Clip-In" Front Goes On or Off in Seconds



Installation now made easy on both of these beautifully designed baffles. Simply mount the two "Speedy Mounting Clips" on wall, and baffles hang by two slots . . . just slips into place. Pre-wired screw terminals permits easy installation. "Clip-In Front" on which speaker mounts slips in place fast. One screw through bottom holds grille firmly. All baffles, finished in beautiful wood grained Proxylite covering, are of bass reflex design with acoustic padding. Complete with speaker mtg. hardware and wall hanging hooks.

#### ① REGULAR CORNER BAFFLE

Long favorite with sound contractors. Now improved appearance, no front screws. Frequently used between wall and ceiling or between beams and ceiling.

For 8" Speaker, maximum speaker depth 4 1/2". Internal volume 525 cu. in. Shpg. wt. 4 1/2 lbs. Mfg. list \$12.50.

No. 40A282W. Walnut Covered..\$7.34

No. 40A282B. Blond Covered.....\$7.34

For 12" Speaker, maximum speaker depth 6 1/4". Internal volume 1520 cu. in. Shpg. wt. 8 1/2 lbs. Mfg. list \$18.00.

No. 40A283W. Walnut Covered..\$10.58

No. 40A283B. Blond Covered....\$10.58

#### ② SLANTING CORNER BAFFLE

Slanting front aims sound down, corner location increases effective air mass. Wall or floor installation.

For 8" Speaker, maximum speaker depth 5 1/2". Internal volume 680 cu. in. Shpg. wt. 6 lbs. Mfg. list \$13.90.

No. 40A280W. Walnut Covered..\$8.18

No. 40A280B. Blond Covered.....\$8.18

For 12" Speaker, maximum speaker depth 6 1/4". Internal volume 1240 cu. in. Shpg. wt. 8 lbs. Mfg. list \$18.75.

No. 40A281W. Walnut Covered..\$11.03

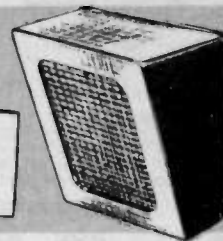
No. 40A281B. Blond Covered....\$11.03

### WALL BAFFLES PRICED SO LOW!

#### DURABLE FABRIC COVERED SPEAKER ENCLOSURE

- Durable walnut grained fabrics.
- Beautiful lasting Saran plastic grille.
- Fine acoustic design for improved tone.

**\$2.36**  
8-IN.



Attractive non-resonant solid 1/2" wood baffles with hot-glue dove-tailed joints for strength and rigidity. Heavy plywood front panel gives improved acoustic tone and extra strength for mounting speaker. Richly grained walnut brown cloth fabric wipes clean with a damp cloth! 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.	Net Ea.
34B151	5"	7 1/2"	5 1/2"	4 1/2"	1 lb.	\$1.56
34B182	6"	8 1/2"	7 1/2"	5 1/2"	1 1/4 lb.	1.86
34B159	8"	10 1/2"	9 3/4"	6 1/2"	1 1/2 lb.	2.36
34B160	10"	12 1/4"	11 1/2"	7 3/4"	2 1/4 lb.	2.86
34B161	12"	14 1/4"	13 1/4"	9 1/4"	3 lb.	3.46



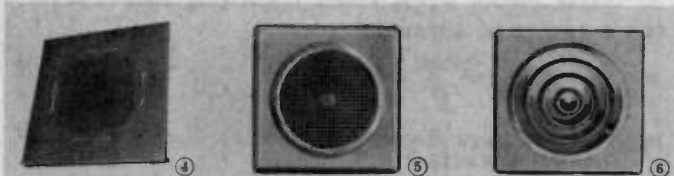
# SPEAKERS AND BAFFLES

## FLUSH MOUNTING WALL AND CEILING BAFFLES



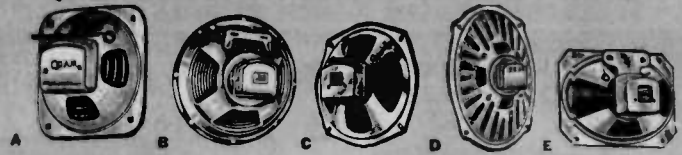
**AT LOWEST COST EVER! IN PLASTIC OR METAL**

- ① Inexpensive 9 1/4" Diameter Brushed Aluminum Ceiling or Wall Mounting Baffle. Perfect for extension speaker or background music installations. 8" speaker mounts by two screws. Secures to wall or ceiling by two wood screws, toggle bolts or mollys. Shpg. wt. 1 lb. No. 34A74. Net Each... **\$1.89** 4 @ Each... **\$1.49** 10 @ Each... **\$1.27**
- ② Beautiful Aluminum Ceiling Mounting Baffle with baked white enamel finish. 8" speaker mounts directly 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 5/8" diameter. Ceiling hole size 8 1/2" dia. Shpg. wt. 1 lb. No. 34A75. Net Each... **\$2.75** 4 @ Each... **\$2.39** 10 @ Each... **\$2.24**
- ③ 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... **\$1.59** 4 @ Each... **\$1.39** 10 @ Each... **\$1.19**



- ④ Low Cost 10" Square Grille with beveled edge. Attractive brushed aluminum mounts 8" speaker. May be attached to wall or ceiling with wood screws, toggle bolts or mollys. Ideal for background music systems in homes, offices or industry. Shpg. wt. 1 lb. No. 34A77. Net Each... **\$2.95** 4 @ Each... **\$2.79** 10 @ Each... **\$2.54**
- ⑤ Similar in appearance to above Grille except is 12" Square and has 3/8" 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... **\$2.59** 4 @ Each... **\$2.39** 10 @ Each... **\$2.29**
- ⑥ New 10" Square White Plastic 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. 34A79. Net Each... **\$2.49** 4 @ Each... **\$2.35** 10 @ Each... **\$2.25**
- ⑦ 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... **\$2.69** 4 @ Each... **\$2.55** 10 @ Each... **\$2.40**

## QUAM ALNICO-V ADJUST-A-CONE SPEAKERS



Engineered to be "best" for replacement in all types of receivers and Public Address fields. Famous Adjust-A-Cone suspension permits cone centering after speaker installation has been made. Universal mounting bracket on speakers up to 6 1/2 inch may be attached to any two of the four threaded mounting holes in the "U" shaped pot. Built to EIA standard dimensions. Fully dustproof and finished in baked enamel. All replacement speakers have 3.2 ohm voice coil. PA Speakers have 8 ohm voice coils. Note: Special voice coil impedances, field coil speakers, and out-door moisture resistant speakers can be supplied upon request. \*Indicates "Thin-Man", very shallow construction.

Size	Magnet Illus.	Wt. Ounces	Watts	Spkr. Depth	Quam No.	Shpg. Wt. Lbs.	Stock No.	Net Each
2 1/4"	C	.62	1/4	1 1/2"	22A06Z8	1/4	22C159	<b>\$2.79</b>
2 1/2"	A	.65	1.5	1 1/4"	25A07	1/4	22B182	<b>2.35</b>
3 1/2"*	A	.65	2.5	1 1/4"	3A07	1/2	22B113	<b>2.35</b>
3x3"	D	.55	2	1 1/4"	35A05	1/2	22C160	<b>2.47</b>
4"x3"	A	.65	3	1 1/4"	4A07	1/2	22B114	<b>2.53</b>
4"	A	1.0	3	2 1/4"	4A1	3/4	22B115	<b>2.70</b>
4"	A	1.47	3	2 1/4"	4A15	3/4	22B116	<b>2.97</b>
4x6"*	E	.65	3.5	1 1/4"	46A07	3/4	22B117	<b>2.79</b>
4x6"	E	1.47	3.5	2 1/4"	46A15	1	22B119	<b>3.23</b>
5"x3"	C	.65	3.5	1 1/2"	5A07	3/4	22B120	<b>2.65</b>
5"	C	1.0	3.5	2 1/4"	5A1	1	22B121	<b>2.86</b>
5"	C	1.47	3.5	2 1/4"	5A15	1	22B122	<b>3.09</b>
5 1/4"	C	2.15	4	2 1/4"	52A21	1 1/4	22B123	<b>3.56</b>
5x7"	E	2.15	5	2 1/4"	57A21	1 1/4	22B 26	<b>3.87</b>
6 1/2"	C	1.0	5	2 5/8"	6A1	1	22B127	<b>3.12</b>
6 1/2"	C	1.47	5	2 5/8"	6A15	1	22B128	<b>3.38</b>
6 1/2"	C	2.15	5	2 5/8"	6A21	1 1/4	22B129	<b>3.79</b>
6 1/2"	C	3.16	6	3 1/8"	6A31	1 3/4	22B130	<b>4.47</b>
6x9"	D	3.2	10	3 3/8"	69A3	2	34C113	<b>5.41</b>
8"	C	2.15	7	3 1/8"	8A21	1 1/2	34C137	<b>4.58</b>
8"	C	3.16	9	3 1/8"	8A31	2	34C145	<b>6.29</b>
10"	B	3.16	9	4 1/2"	10A31	2 3/4	34C150	<b>8.76</b>
12"	B	3.16	10	4 1/2"	12A31	3 3/4	34C152	<b>7.03</b>

HEAVY DUTY PUBLIC ADDRESS SPEAKERS, 8 OHM V.C.								
8"	B	4.64	12	3 3/4"	8A4PA	2 3/4	34C114	<b>8.47</b>
8"	B	6.80	12	3 3/8"	8A6PA	3 1/4	34C127	<b>7.64</b>
12"	B	4.64	15	5 1/8"	12A4PA	4	34C129	<b>8.38</b>
12"	B	6.80	15	5 1/4"	12A6PA	4 1/2	34C131	<b>9.38</b>
12"	B	10.0	25	4 1/8"	12A10PA	3 1/4	34C135	<b>11.74</b>

HIGH IMPEDANCE INTERCOM SPEAKERS, 45 OHM V.C.								
3 1/2"	A	.65	2.5	1 1/4"	3A07Z45	1/2	22B110	<b>2.50</b>
4"	A	.65	3.0	1 1/4"	4A07Z45	1/2	22A131	<b>2.88</b>
4"	A	1.0	3	2 1/4"	4A1Z45	3/4	22B111	<b>2.85</b>
5"	C	1.0	3.5	2 1/4"	5A1Z45	1	22B112	<b>3.00</b>

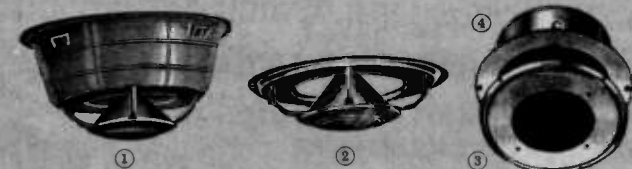
### OUTDOOR SPEAKERS

Completely moisture-resistant with plastic impregnated Humi-Gard cones. 3.2 ohm voice coils. Highly recommended for areas where excessive moisture or high humidity are encountered.

3 1/2"	A	.65	2.5	1 1/4"	3A07 OT	1/2	22C54	<b>2.35</b>
4"	A	1.0	3.0	2 1/4"	4A1 OT	3/4	22C55	<b>2.73</b>
5"	C	1.47	3.5	2 1/4"	5A15 OT	1	22C55	<b>3.15</b>
6 1/2"	C	1.47	5	2 5/8"	6A15 OT	1	22C151	<b>3.53</b>

Large quantity users please contact our Industrial Sales Dept. for quotations. B-A can ship different voice coil impedances or field resistance speakers other than ones listed above. Send us your order!

## LOWELL CEILING AND WALL BAFFLES



360° sound dispersion for perfect coverage in any location. In large rooms or halls, these speakers should be installed on 25" spacing in straight lines. Type "RS" and "AL" should be installed with "XCP" back covers as listed below. All are made of Heavy Spun Aluminum, brushed finish with coat of clear lacquer as primer coat for finish painting.

Stk. No.	Model	Speaker Size	Baffle Size	Rough In Opening	Net
34A218	BL8A	8"	14 3/4 x 8 1/8"	None	<b>\$12.94</b>
34A223	BL12A	12"	18 5/8 x 9 1/4"	None	<b>16.88</b>
① SURFACE MOUNTING CEILING BAFFLES					
34A217	AL8A	8"	12 5/8 x 2 1/2"	8 1/2"	<b>7.14</b>
34A226	AL12A	12"	16 7/8 x 3"	13"	<b>9.00</b>
② RECESSED SPEAKER BAFFLES					
34A227	RS8A	8"	12 5/8 x 1 1/2"	8 1/2"	<b>3.26</b>
34A228	RS12A	12"	16 7/8 x 1 1/2"	12 1/2"	<b>4.47</b>
③ WALL MOUNTING FLUSH SPEAKER RINGS					
34A225	XCP8	8"	8 1/2 x 4 1/4"	8 1/2"	<b>\$4.73</b>
34A224	XCP1012	12"	16 1/2 x 7 1/4"	12 1/2"	<b>6.39</b>

## ULTRA-MODERN RECESSED CEILING BAFFLES

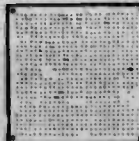


STL—For controlled low level sound distribution. Circular louvers rubber grommet mounted on 1/8" aluminum rods prevent metallic vibration for "round the room" sound. May be installed with back cover or plaster rings.

Stk. No.	Model	Spkr. Size	Baffle Opening	Rough-In	Net Each
34A290	STL8A	8"	15 1/2" dia.	12 3/4"	<b>\$12.24</b>
34A292	STL12A	12"	20 1/8" dia.	15 1/4"	<b>17.18</b>
Back Covers For Above					
34A293	STPB Each	8"	12 3/4"	XPR8 Each	<b>\$1.71</b>
34A294	STP1012 Each	12"	15 1/4"	XPR12 Each	<b>2.23</b>

## LOWELL ACOUSTIC CEILING BAFFLE

FOR 8-INCH SPEAKER



Matches acoustic soundproofing tile in appearance. 12"x12" perforated metal baffle flush mounts in standard block space giving completely hidden speaker installations. XCP8 or CP8 back covers may be used if desired. Any standard 8" speaker may be used. Flat white lacquer finish serves as primer for any desired color. Hdwe. furnished. Wt. 1/2 lb.

No. 34B215. Model M-8. NET EACH ..... **\$4.07**

## SPECIAL RANDOM PATTERN TILE BLOCK BAFFLE

Designed to match most acoustic tiles made. Drilled to mount 6", 7" and 8" speakers. Specify speaker size and send sample tile for perfect match. Mfg. list \$11.12.

No. 50A43. Net Each ..... **\$6.54**

# ELECTRO-VOICE MICROPHONES



## GUIDE TO SELECTION OF E-V CERAMIC AND CRYSTAL MIKES

For full description of Crystal and Ceramic Microphone characteristics see information at right. All are high impedance, for use with amplifiers or other equipment having high impedance microphone inputs.

Type 715SR has press-to-talk relay control switch as normally required for communications equipment, citizens band transceivers, etc.

718, ideal replacement for home recorders, has attached phono plug and phono plug adaptor to fit most recorders.

727 and 729 have slip-in diecast desk stand base.

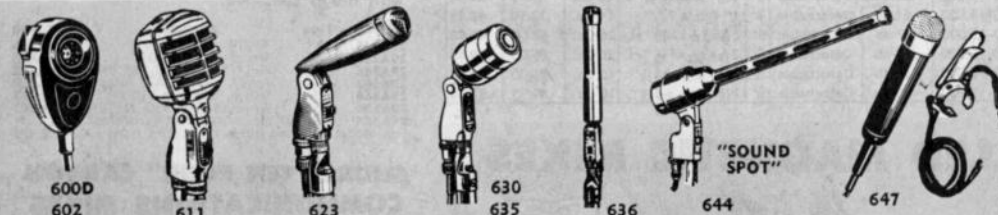
Very popular for radio amateur and paging.

911 has very high output permitting operation of equipment at lower gain setting than usual. Essentially non-directional, becoming slightly directive at higher frequencies.

(S) following EV type indicates slide switch to short microphone in "OFF" position.

Types designated for stand mounting fit standard 5/8"-27 threaded stands or accessories. Cables are not equipped with plugs for amplifier (except 718). See page 117 for complete plug selection.

Stock No.	EV Type	Case Style	Type of Element	Pickup Pattern	Case Finish	Response Cps	Output Level	Cable	Size Overall	Net. Wt.	Mfr's List	Net Each
29A177	712	Hand Held	Ceramic	Non-Dir.	Gray Plastic	70- 7000	-55 db	5' Attached	2 1/4 x 1 3/8 x 3" H	4 oz.	\$ 7.50	\$4.41
29A178	715	Hand or Stand	Ceramic	Non-Dir.	Lustre Gray	60- 7000	-55 db	5' Attached	2 1/2 x 1 x 3" H	6 oz.	13.00	7.64
29A179	715(S)	Hand or Stand	Ceramic	Non-Dir.	Lustre Gray	60- 7000	-55 db	5' Attached	2 1/2 x 1 x 3" H	6 oz.	15.00	8.82
29A180	715SR	Hand or Stand	Ceramic	Non-Dir.	Lustre Gray	60- 7000	-55 db	5' Attached	2 1/2 x 1 x 3" H	6 oz.	17.50	10.29
29A181	718	Hand or Table	Ceramic	Non-Dir.	2-Tone Gray	60- 6000	-55 db	5' Attached	1 1/2 x 1 3/8 x 3 3/8" H	8 oz.	12.00	7.06
29A182	727	Hand or Stand	Ceramic	Non-Dir.	2-Tone Gray	60- 8000	-55 db	5' Attached	1 1/2 x 1 3/8 x 7 3/8" H	14 oz.	18.00	10.58
29A183	729(S)	Hand or Stand	Ceramic	Non-Dir.	2-Tone Gray	60- 8000	-55 db	5' Attached	1 1/2 x 1 3/8 x 7 3/8" H	14 oz.	20.00	11.76
29A184	729	Hand or Stand	Ceramic	Uni-Dir.	2-Tone Gray	60- 8000	-60 db	10' Attached	1 1/2 x 1 3/8 x 7 3/8" H	16 oz.	24.50	14.41
29A185	729(S)	Hand or Stand	Ceramic	Uni-Dir.	2-Tone Gray	60- 8000	-60 db	10' Attached	1 1/2 x 1 3/8 x 7 3/8" H	16 oz.	26.50	15.58
29A186	911	Stand Mtg.	Crystal	Non-Dir.	Satin Chrome	50- 9000	-50 db	18' Detachable	2 3/8 x 3 1/2 x 1 1/2" H	24 oz.	32.50	19.11
29A187	924	Lavalier	Crystal	Non-Dir.	Satin Chrome	60- 8000	-60 db	18' Attached	1 3/8" dia. x 3 3/8" H	10 oz.	20.00	11.76
29A188	951	Stand Mtg.	Crystal	Uni-Dir.	Lustre Gray	50-11000	-60 db	18' Detachable	1 3/8" dia. x 5 3/8" H	20 oz.	54.50	32.05



## IMPORTANT CHARACTERISTICS OF E-V DYNAMIC MIKES

All of advanced design moving coil construction employing the exclusive E-V non-metallic "Acoustalloy" diaphragm for wide-range distortion-free and blast-proof long-life operation. See "Type of Mike Element" at right for general characteristics and important features of dynamic microphones.

Types 600D and 602 have attached coiled cord extending to 6 ft. and DPDT press-to-talk relay control switch, especially recommended for mobile 2-way radio.

611, while essentially non-directional becomes slightly directive at higher frequencies.

623, 636, 644, 647 and 664 have high or low impedance selectable by moving one wire or cable connection.

These are high quality PA microphones.

644 Sound Spot can be used at 2.5 times greater working distance than other microphones.

635 and 654 have 50 or 250 ohm impedance selected by recessed switch, for professional studio use.

655C and 666 have 50, 150 and 250 ohm impedance selectable by moving one wire in connector.

(S) following EV type indicates slide switch to short microphone in "OFF" position.

Types designated for stand mounting fit standard 5/8"-27 threaded stands or accessories. Cables do not have plugs for amplifier end. See page 117 for complete plug selection.

Stock No.	EV Type	Case Style	Case Finish	Pickup Pattern	Imped Ohms	Response Cps	Output Level	Cable	Size Overall	Net. Wt.	Mfr's List	Net Each
29A189	600D	Hand Held	Blk. Pl.	Non-Dir.	High	100- 7000	-55 db	6' Coiled Cord	2 x 2 3/8 x 4"	8 oz.	\$ 47.50	\$27.93
29A193	611(S)	Stand Mtg.	Sat. Chrome	Non-Dir.	High	50- 9000	-55 db	18' Detachable	2 3/8 x 3 1/2 x 6 1/2"	20 oz.	45.00	26.46
29A194	630(S)	Stand Mtg.	Sat. Chrome	Non-Dir.	High or Low	60-12000	-55 db	18' Detachable	1 3/8" dia. x 7 1/2"	15 oz.	57.00	33.52
29A196	635(S)	Stand Mtg.	Sat. Chrome	Non-Dir.	High	60-11000	-55 db	18' Detachable	2" dia. x 6 1/2"	16 oz.	52.50	30.87
29A197	635(S)	Stand Mtg.	Sat. Chrome	Non-Dir.	50 or 250	60-13000	-55 db	18' Detachable	2" dia. x 6 1/2"	16 oz.	82.00	48.22
29A198	644(S)	Stand Mtg.	Sat. Chrome	Non-Dir.	High or Low	40-13000	-58 db	18' Detachable	1 1/2" dia. x 10 1/4"	15 oz.	72.50	42.63
29A199	647	Lavalier	Gray	Non-Dir.	High or Low	40-12000	-55 db	18' Detachable	1 1/2" dia. x 5"	41 oz.	110.00	64.88
50A129	649B	Lavalier	Met. Gray	Non-Dir.	50-250	70-10000	-61 db	30' Attached	3/8" dia. x 3 1/2"	2 oz.	105.00	61.74
50A130	654A	Stand Mtg.	Gray	Non-Dir.	50 or 250	50-16000	-57 db	18' Detachable	1 1/2" dia. x 10 1/2"	16 oz.	100.00	59.80
50A134	655C	Stand Mtg.	Gray	Non-Dir.	50-250	40-20000	-55 db	20' Detachable	1 1/2" dia. x 10 3/8"	7 oz.	200.00	117.60
29A200	664(S)	Stand Mtg.	Sat. Chrome	Non-Dir.	High or Low	40-15000	-55 db	18' Detachable	1 3/8" max. D x 7 3/8" 26 oz.		85.00	49.98
50A121	665	Stand Mtg.	Gray	Uni-Dir.	50-250	50-14000	-58 db	18' Detachable	1 3/8" max. D x 7 3/8" 26 oz.		150.00	88.20
50A135	666	Stand Mtg.	Gray	Uni-Dir.	50-250	30-16000	-55 db	20' Detachable	1 1/2" max. D x 7 1/2" 11 oz.		255.00	149.94

## MODEL 664 DYNAMIC UNI-DIRECTIONAL MIKE

FIRST CHOICE FOR PERFORMANCE, RUGGEDNESS, VERSATILITY

Especially recommended for PA service, churches, schools, clubs, recording, communications—truly the work horse of the microphone field!

Built to take rough treatment, yet a superb performer sounding smooth and natural on voice and music.

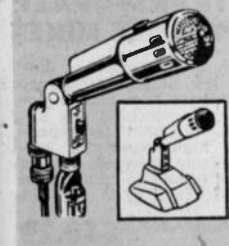
Cardioid pickup pattern greatly minimizes feed back, retains directional characteristics at all frequencies, permits operation much farther from sound source or close up as desired.

Response 40-15,000 cps. High impedance or 150 ohm low impedance by moving one wire in connector. Other specifications in chart above.

No. 29A200. Model 664. Satin chrome finish.

List \$85.00. Net Each. **\$49.98**

No. 29A408. Model 419 matching stand. See insert. Net Each. **\$5.88**



# GUIDE TO MICROPHONE SELECTION B-A's SIMPLE 1, 2, 3 PLAN

**1**

Select first the type of element or microphone cartridge, whether "dynamic," "crystal" or "ceramic," best suited to the temperature, humidity and handling conditions you expect. Read the general characteristics and important features of each type, explained below. Determine whether short or long mike cable will be required. Use high impedance (Hi-Z) elements for short cable (usually not over 25 ft.); use low impedance dynamic elements for long cables.

**2**

Then choose the pickup pattern, whether "non-directional," "uni-directional" or "differential," necessary because of acoustic conditions. This is explained in simple terms below.

**3**

Finally, check the table listings showing microphones using the type of element you have chosen. Determine degree of perfection wanted, noting frequency response and price. Output level is stated as a negative figure; therefore mikes having higher output have the smaller negative DB rating. Check mechanical features and refer to the illustrations for general appearance, styling, etc.

## TYPE OF MIKE ELEMENT

**Crystal, Ceramic, Dynamic.** General characteristics and important features of each. **Crystal:** Generally low in cost, giving faithful reproduction with high output to work with most equipment having "high impedance" microphone inputs. Widely used indoors for home recording, dictating, communications, PA and paging where ordinary comfortable temperature and humidity conditions prevail and normally careful handling is expected. Usual cable length, not over 25 ft. Longer cable lengths reduce microphone output and generally degrade performance due to "hum" pickup.

**Ceramic:** Only slightly higher in cost than crystal types, giving long life and low distortion with medium output to work into high impedance amplifiers. Can withstand extremes of temperature and humidity indoors or outdoors, is considered quite rugged and may be used in virtually all applications where crystal microphones are normally specified.

**Dynamic:** Generally recommended as the best type for all applications. Most capable of all common microphones for faithful, smooth, wide range response everywhere. Not affected by temperature or humidity and can withstand easily the rough handling common to many communications and public address uses. Available in high impedance models for normal length cables and in low impedance models for best possible results over long mike lines. Cost ranges from economical to high, depending on degree of perfection.

## TYPE OF PICK-UP PATTERN

**Non-directional and Uni-Directional.** Choice is based on prevailing acoustic conditions.

**Non-Directional:** Near equal sound pickup from all sides. Normally excellent for recording, paging and public address where the sound is close to the microphone and the room is quiet and free of reverberation.

**Uni-Directional:** Cardioid or heart shaped pattern of pickup discriminates against unwanted sound from rear and sides. This has been proved best where echo in room and random noise are noticeable and where the source of sound may at times be far from the microphone. Highly beneficial for all high quality recording and public address; absolutely essential in reducing or preventing acoustic feedback or howl commonly associated with PA systems.



# SHURE DYNAMIC MICROPHONES



(See Page 113 for B-A's Easy (1) (2) (3) Guide to Microphone Selection)

All microphones in this group are designed to give best possible performance in high quality music and public address systems. In addition they meet or surpass studio requirements for general purpose recording, entertainment and utility service. Very highly recommended for dependable service in church, school, business, auditorium and stage installations requiring full fidelity sound pickup with minimum maintenance problems.

**Pickup Pattern:** Types 555, 555W, 545 and 545S have true cardioid pickup pattern permitting great freedom from acoustic feedback with operation farther from sound source or close up as desired. 51S, 535 and 540S are essentially non-directional. The new 540S features a variable frequency response for "tailoring" to best voice intelligibility in paging and communications.

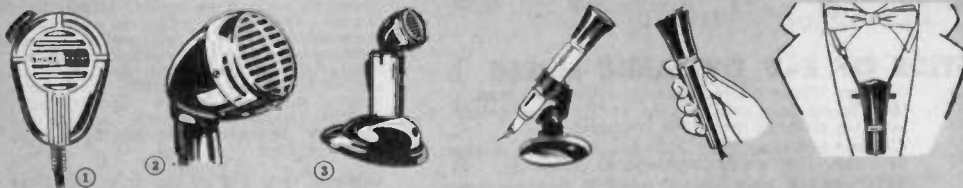
**Impedances:** All are high impedance for usual length cables plus low impedance change over to allow use of long cables. 51, 51S, 555 and 555W have 35 to 50 ohm, 150 to 250 ohm and high impedance selectable by a 3 position switch; 535, 540S, 545 and 545S have dual impedance switch for 50-250 ohms or high impedance.

All types have integral lifetime swivel mounting threaded for 5/8"-27 stands except 535 and 545 which are supplied with A-25 swivel adaptor for 3/8"-27 stands, allowing microphone to be slipped from adaptor for hand use. Switches provided short microphone in "off" position. All cables plug into microphone and do not have plug on free end for amplifier. Order Plug from page 117.

## COMPARISON CHART FOR SHURE DYNAMIC MICROPHONES

Stock No.	Shure Type	Case Style	Case Finish	Pickup Pattern	Response Cps	Output Level	Cable	Size Overall	Net Wt.	Mfg. List	Net Each
29A205	51	Less Switch	Satin Chrome	Semi-Dir.	60-10,000	-52 db	Detachable 15'	3 1/8 x 2 1/8 x 5 1/8" H.	28 Oz.	\$49.50	\$29.11
29B229	51S	With Switch	Sat. Ch. & Blk.	Semi-Dir.	60-10,000	-52 db	Detachable 15'	3 1/8 x 2 1/8 x 5 1/8" H.	28 Oz.	51.50	30.28
29B231	540S	Stand Mtg.	Sat. Ch. & Blk.	Non-Dir.	60-10,000	-52.5 db	Detachable 15'	1 1/8" Dia. x 3 3/8" L.	28 Oz.	49.95	29.37
29A206	535	Hand or Stand	Satin Chrome	Non-Dir.	60-13,500	-61 db	Detachable 18'	1" Dia. x 7 1/2" L.	14 Oz.	72.50	42.63
29A207	535	Less Switch	Satin Chrome	Non-Dir.	50-15,000	-57 db	Detachable 18'	2 1/8 x 3 1/8 x 7 3/8" H.	26 Oz.	83.00	48.80
29B241	555W	With Switch	Sat. Ch. & Blk.	Uni-Dir.	50-15,000	-57 db	Detachable 18'	2 1/8 x 3 1/8 x 7 3/8" H.	26 Oz.	85.00	49.98
29A208	545	Hand or Stand	Sat. Ch. & Blk.	Uni-Dir.	50-15,000	-55 db	Detachable 18'	1 1/8" Dia. x 5 1/2" L.	10 Oz.	85.00	49.98
29B235	545S	Stand Mtg.	Sat. Ch. & Blk.	Uni-Dir.	50-15,000	-55 db	Detachable 18'	1 1/8" Dia. x 5 1/2" L.	10 Oz.	89.95	52.89

# SHURE CONTROLLED MAGNETIC MIKES



COMMUNICATIONS SERIES

"COMMANDO" SERIES

415-430 FOR STAND OR HAND

MODEL 420 LAVALIER

"TEN-FOUR" "440 SIDEBAND" 440SL SIDEBAND

## COMMUNICATIONS SERIES

### ① "TEN-FOUR" HAND AND MOBILE MICROPHONES.

Practically indestructible, in high impact grey "Armo-Dur" molded case. Controlled magnetic element provides utmost speech clarity and dependability. Response 200-8000 cps. Used on outdoor PA for sports, carnivals, call systems; best choice for mobile 2-way radio. Compact size 1 49/64 x 2 5/8 x 3 11/16" H, fits palm snugly. Has heavy duty DPST press-to-talk switch for mike and relay control. Coiled cord is high quality shielded with copper (not tinsel) conductors extendable to 5 1/2 ft. Hang-up bracket included.

Stock No.	Shure Type	Imped.	Output Level	Coiled Cord Attached	Net Wt.	Mfg. List	Net Each
29B234	404C	High	-50.5 db	3 Cond. (1 shielded)	10 oz.	\$33.00	\$19.40
29B238	404B	150-250	-50 db	4 Cond. (2 shielded)	10 oz.	33.00	19.40

② NEW 440 SIDEBAND MIKE. Has special narrow response from 300 to 3000 cps. for best radio transmission. Cuts off sharply, gives excellent speech intelligibility even in presence of noise. Output -52.5 db, high impedance, 7 ft. attached cord. Satin chrome case, size 2 1/8" dia. x 3 1/4" L. For 3/8"-27 stands. Shpg. wt. 2 lbs.  
No. 29B239. Mfg. List \$25.00. Net Each.....\$14.70

③ 520 GREEN BULLET. Full range 100-9000 cps. for PA and music. Metallic green, chrome grille. High impedance. Same size and style as model 440 above. No. 29A212. Mfg. List \$22.50. Net Each.....\$13.23

④ NEW 440SL SIDEBAND MIKE WITH GRIP-TO-TALK STAND. Has DPST switch for relay and microphone control. Easily wired for optimum use on either VOX or push-to-talk operation. Wt. 2 1/2 lbs. No. 29B240. Mfg. List \$47.50. Net Each.....\$27.93

## COMMANDO SERIES

Dramatic looking rugged mikes unaffected by temperature or humidity. Non-directional pickup pattern, response 60-10000 cps. Output -52 db. Excellent for voice or music, recording, paging, lecturing, etc. Cases are satin chrome and grey. Recommended desk stand, S33B, or S33B.

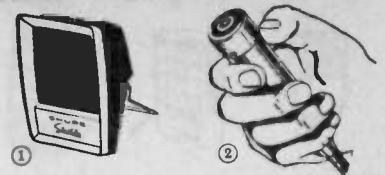
415 Commando. (Stand not supplied). With A25 swivel adaptor to fit 3/8"-27 threaded stand or slips out of adaptor for hand. High impedance.

430 Commando. Like 415 in appearance, with A25 swivel adaptor. Has selector for high impedance or 150-250 ohms low impedance and combination press-to-talk slide-lock switch shorting microphone in "OFF" position.

420 Lavalier "Commando". Supplied with neck cord or used in hand. Shorter case than 415-430, not mode for stand adaptor. Has selector for high impedance or 150-250 ohms low impedance.

Stock No.	Shure Type	Case Style	Pickup Pattern	With Cable	Size Overall	Net Wt.	Mfr's List	Net Each
29A209	415	Hand or Stand	Non-Dir.	Attached 7'	1 3/4" D x 6 1/2" L	8 oz.	\$27.50	\$16.17
29A210	420	Hand or Neck	Non-Dir.	Attached 20'	1 3/4" D x 3 1/2" L	4 oz.	30.00	17.64
29A211	430	Hand or Stand	Non-Dir.	Detachable 15'	1 3/4" D x 6 1/2" L	16 oz.	38.50	22.64

# SHURE CERAMIC AND CRYSTAL MIKES



① "STARLITE." Beautifully designed non-directional mike for hand or desk. Excellent low price "natural" for voice or music, home recording, paging, inexpensive public address. Molded case, gray and black, 3 5/32" H, 2 3/16" W, 1 9/32" D. Attached 5 ft. shielded cable. Model 215 50-8000 cps, -50 db output. Model 715 50-10,000 cps, -50 db output. High impedance.  
29A201. Model 215 Ceramic. Mfg. List \$8.00.  
29A202. Model 715 Crystal. Mfg. List \$8.00.  
**Your Choice, Each.....\$4.70**

② "SLIM-X 777." Versatile hand, lavalier or stand mounted crystal type mike. Ideal for lecturers, announcers, home recorders, etc. Furnished with molded stand adaptor and lavalier neck cord. See optional A25 swivel and S38 desk stand below. Detachable 7' cable. Range 60-10,000 cps -62 db output high impedance. Satin chrome 1" dia., 4 1/2" lg.  
No. 29A203. Model 777. Mfg. List \$25.00.  
**Net Each.....\$14.70**  
No. 29A204. Model 777S. With switch. List \$25.00. Net Each.....\$15.88

## SHURE MIKE ACCESSORIES



S33B stand fits A-25 swivel adaptor supplied with mikes specified.

Stk. No.	Type	Description	Net Each
29A365	S38	4 1/2" D. Stand for 777	\$2.65
29A225	S38B	Stand for 415, 430	2.65
29A366	S33B	For 415, 425, 430, 535, 545	0.82
29A362	S36A	For 51, 555 and A25 Adaptor	3.82
29A363	A25	Swivel. Use with S38 for 777	3.23
29A226	A25B	Swivel for 415, 430, 535, 545	3.23
29A364	A25L	Neck Cord (Not Illustrated)	
		Fits Model 535 and other 1" D. slim type	2.65

## SHURE "TEN FOUR" CARBON COMMUNICATIONS MIKES

In new, long-lasting, high-impact, grey "Armo-Dur" case. Exact replacement for GE, Motorola, RCA and other two-way radios used by police, taxi, bus, truck and commercial services. Has relay switch for press-to-talk, hang-up bracket and 11' retracted 5' extended coiled cord. Frequency response 300 to 4000 cps. Pickup, semi-directional.

50 to 100 ohms impedance. Size 2 5/8 x 1 1/8 x 3 1/8" H. Net wt. 10 oz. Mfg. list \$30.00

Stk. No.	Type	Press-to-Talk Switch	Net Ea.
29A219	104B	SPST Relay Control	\$17.64
29A220	104A	DPST Relay & Mike Control	\$17.64

## SHURE MIKE CARTRIDGES



Handy replacements for Shure and others. MC series recommended for transistor equipment. All are controlled magnetic except R10, carbon.

Stk. No.	Type	Description	Net Each
29A356	R5	2 1/4" D., 7/8" T., Hi-Z	\$6.47
29A357	R5B	150-250 Ohms	6.47
29A360	R10	2" O. D., 3/8" T.	8.00
29A354	MC11J	1 1/4" D., 1/2" T., 1000 ohms	7.35
29A355	MC20J	3/4" x 1 1/4" x 1 1/4" T., 2000 ohms	8.23
29A358	MC30J	1/2" Sq., .265" T., 1850 ohms	11.76

## MIKE CABLE TRANSFORMER FOR LOW IMPEDANCE MIKES



Allows use of long microphone line without usual loss of high frequency response. Minimizes hum pickup. Installs at amplifier matching any 35-50 ohm or 150-250 ohm low impedance mike to high impedance amplifier input. Fully shielded, rugged construction, with built-in cable strain relief. Size 1 3/8" D, 2 7/8" L. Wt. 1 1/4 lbs.

No. 29A361. Shure A86A. **\$10.29 Each.**



## ASTATIC CITIZENS BAND CERAMIC MIKE

- Coil Cord.
- Relay Switch.
- Special Voice Range.
- Not Affected by Heat or Humidity.

Exact replacement for many citizens band 2-way radios... a tremendous improvement for all that came with ordinary home recorder style mike. Will improve distance range by up-grading audio modulation of set. Excellent for mobile ham stations, for paging and call systems. Response 350-5000 cps, high impedance. Has spring-return thumb relay switch, handy hang-up bracket. Back case and grill, chrome cap. Mfg. List \$17.90.

No. 29A359. Astatic 331. Each..... **\$10.53**

## ASTATIC HAM MIKES ON "G" STAND



The popular grip-to-talk desk stand with sliding bar to lock in "on" position in chrome and grey. Switch action is DPST for relay and mike. Stand available separate or with choice of D-104, 10-C or 10-D microphone.

Stock No.	Astatic Type	With Microphone List	Mfr's List	Net Each
29A402	GD104	D104	\$51.20	<b>\$30.10</b>
29A403	G-10C	10-C	49.90	<b>29.34</b>
29A404	G-10D	10-D	59.50	<b>36.22</b>
29A405	"G" Stand Only		24.95	<b>14.67</b>

## ASTATIC MIKE ELEMENTS

Exact, easily installed replacements for popular Astatic models. Ceramic can be used to replace crystal types, approx. 5 db. less output.

Stk. No.	Type	Fits Mikes	Net Each
29A396	MC-151 Crystal	JT-30, T-3	<b>\$4.12</b>
29A397	MC-127 Ceramic	JT-30C, T-3C	<b>4.12</b>
29A398	MC-320 Crystal	D-104	<b>6.59</b>
29A399	MC-321 Ceramic	D-104C	<b>4.12</b>
29A400	MC-226 Dynamic	10-D	<b>9.70</b>
29A401	MC-206 Crystal	10-C	<b>4.12</b>

## TURNER MIKE CARTRIDGES

Like new performance for old mikes. Fits Turner exactly. OK for many others. More durable ceramic ideal as replacement for crystal. Type 2-BC, with adaptor 2 1/2" D.

Stk. No.	Type	Fits Mikes	Size	Net Each
29A383	13C Dynamic	9D, 33D	2" D. x 3/8"	<b>\$8.48</b>
29A384	2BC Ceramic	22X, 33X	1 3/8" D. x 3/8"	<b>4.70</b>
29A385	23 Crystal	80, 95X	3 1/2" D. x 1 1/2"	<b>4.70</b>

## BELDEN COILED CORDS FOR MIKES & TELEPHONES

MAY BE CUT AND SOLDERED LIKE ORDINARY WIRE



Spade terminals and metal cord clamp attached, vinyl insulated.

Stk. No.	Beld No.	Cond.	Length	Net Each
29B244	8495	3	10" to 4 1/2"	\$0.99
29B245	8494	4	10" to 4 1/2"	1.17

SHIELDED MICROPHONE CORDS

Single conductor type has tinned copper shield; three conductor has superior Beld-fall-braid plus drain wire on one conductor only. All conductors rubber insulated. Available with glossy black-vinyl or extra durable black neoprene sheath. Single cond. extends from 7" to 4", dia. .180"; 3 cond. 10 1/2" to 5", dia. .250".

Stk. No.	Beld No.	Cond.	Sheath	Net Ea.
29B246	8498	1 shielded	Vinyl	\$0.70
29B247	8499	1 shielded	Neoprene	.72
29B248	8496	3 (1 shielded)	Vinyl	.99
29B249	8497	3 (1 shielded)	Neoprene	1.14

# ASTATIC MICROPHONES



## FAVORITE ASTATIC CRYSTAL & DYNAMIC MIKES

For full explanation of microphone element characteristics and helpful how-to-order information on choosing microphones, see page 113

Time proven top performers like the JT-30, D104 and the newer "slide-band" 10-C and 10-D have made Astatic "first-choice" for amateurs everywhere. The JT-30, too, is extremely popular for paging, recording and PA; comes with take-a-part desk stand. With base removed, the stem is a handle. Mike case has 3/8"-27 stand thread.

JT-30F, head only, same as supplied with JT-30. 302 and 151 recommended for tape recorders, have high output.

330 Series. New high performance mikes with tough Mylar diaphragm. With 3/8"-27 stand adaptor and lavalier neck cord.

77(S) is superb high-fidelity, single direction Cardoid pickup mike with multi-impedance selector for 30-50, 150-250 ohms and high impedance. Highly recommended for high quality public address.

D-104, 10-C and 10-D. "Ham favorites" have plug-in connector to fit Astatic "G" stand. Also with adaptor and cord to fit 3/8"-27 threaded stands.

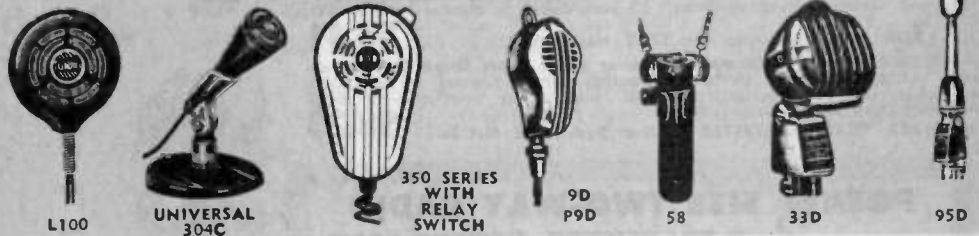
10-C and 10-D have tailored response for higher talk power needed on SSB and AM radio transmitters and paging call systems.

(S) following Astatic type indicates slide lock switch starting microphone in "OFF" position.

All types supplied high impedance only, and all have non-directional pickup pattern except Model 77 explained above.

Stock No.	Astatic Type	Use Style	Type of Element	Response Cps	Output Level	Cable	Case Finish	Size Overall	Net Wt.	Mfr's List	Net Each
29A386	JT-30	Desk-Hand	Crystal	30-10000	-49 db	8' Removable	Grey	2 1/2" D x 5"	21 oz.	\$18.40	<b>\$10.82</b>
29A387	JT-30F	Stand Mtg.	Crystal	30-10000	-49 db	8' Removable	Grey	2 1/2" D		15.90	<b>9.36</b>
29A388	151	Desk-Hand	Ceramic	30-10000	-44 db	5' Attached	Grey	2 1/2" Sq. x 1 1/2"	3 oz.	6.50	<b>3.82</b>
29A389	M-302	Desk-Hand	Crystal	30-10000	-48 db	8' Attached	Gold	2 1/2" x 1 1/2" x 3 1/2" H	11 oz.	12.50	<b>7.36</b>
29A390	333(S)	Universal	Ceramic	30-10000	-58 db	8' Attached	Black	1 1/2" x 1 1/2" x 1 1/2" H	16 oz.	17.90	<b>10.53</b>
29A391	335(H1S)	Universal	Dynamic	60-12000	-56 db	8' Attached	Black	1 1/2" x 1 1/2" x 1 1/2" H	21 oz.	26.50	<b>15.58</b>
29A392	D-104	Stand Mtg.	Crystal	30-7500	-46 db	5' Removable	Chrome	3 1/2" D x 3 1/2" T x 6 3/8" H	28 oz.	31.00	<b>18.23</b>
29A394	10-C	Stand Mtg.	Ceramic	300-3000	-52 db	5' Removable	Grey & Chrome	2" D x 3" L x 4" H	9 oz.	29.70	<b>17.46</b>
29A395	10-D	Stand Mtg.	Dynamic	300-3000	-52 db	5' Removable	Chrome	2" D x 3" L x 4" H	15 oz.	39.70	<b>23.34</b>
29A392	77	Stand Mtg.	Dynamic	30-15000	-52 db	20' Removable	Gold	2 1/2" x 2 3/8" x 8" H	2 lb.	92.50	<b>64.39</b>

# TURNER MICROPHONES



## QUICK COMPARISON CHART FOR TURNER CRYSTAL, CERAMIC & DYNAMIC MIKES

Conservatively priced fine quality, high performance mikes for every use. For full explanation of microphone element characteristics, read how-to-order information on page 113. Pickup Pattern: Essentially non-directional. Excellent where room is quiet and free from reverberation. Fine for recording, paging, communications and general purpose public address. L100 has swivel action clothing clip. 304C high performance desk stand, lavalier neck cord assembly, and 3/8"-27 stand adaptor.

350 ceramic low cost mobile type with relay push switch is used with citizens band and other communications or call systems. P9D is low impedance 200 ohm, with SPST push-to-talk switch. Highly recommended for paging, call systems. Excellent speech clarity. 58 is wired for quick selection of high impedance or 150 ohms. High impedance only, all types except P9D and 58 as explained above.

Stock No.	Turner Type	Use Style	Type of Element	Response Cps	Output Level	Cable	Case Finish	Size Overall	Net Wt.	Mfr's List	Net Each
29A367	L100	Lapel	Crystal	50-10000	-52 db	20' Attached	Grey Pl.	2" Dia. x 1 1/2" T	4 oz.	\$12.50	<b>\$7.36</b>
29A369	304C	Unlv.	Ceramic	60-10000	-60 db	12' Attached	Black Pl.	5 1/4" x 1 3/8" D	16 oz.	16.50	<b>8.70</b>
29A371	350C	Hand	Ceramic	80-7000	-54 db	5' Call Card	Ivory Pl.	3 3/8" x 2 1/2" W 1 1/2" T	10 oz.	16.80	<b>9.88</b>
29A373	9D	Hand/Stand	Dynamic	150-7000	-52 db	7' Removable	Satin Chrome	4 3/8" x 2 1/2" x 2"	30 oz.	32.50	<b>19.11</b>
29A374	P-9D	Hand/Stand	Dynamic	150-7000	-52 db	7' Removable	Satin Chrome	4 3/8" x 2 1/2" x 2"	30 oz.	32.50	<b>19.11</b>
29A375	58	Lavalier	Dynamic	60-13000	-60 db	25' Attached	Grey	4x1" D	8 oz.	57.00	<b>33.62</b>
29A376	33D	Stand	Dynamic	100-9000	-54 db	20' Removable	Satin Chrome	4 1/2" x 2 3/4" x 2 1/2"	2 lbs.	35.00	<b>20.58</b>
29A377	95D	Stand	Dynamic	100-10000	-58 db	20' Removable	Satin Chrome	1" D x 8 1/2"	20 oz.	37.50	<b>22.06</b>

## TURNER "LIFT SWITCH" MICROPHONE

TURNER "LIFT SWITCH" MICROPHONE OFFERS YOU MORE VERSATILITY, THAN ANY OTHER COMBINATION OF SEPARATE MIKE, STAND AND SWITCHES

Handy one-piece unit—mike and stand with control switch—integrated into one unit for utmost operating convenience. Ideal for dispatch, control tower, amateur and 2-way radio.

Exclusive 3-way switching arrangement. (1) Lift the mike, it's live automatically; set it down for automatic shut-off. Additional switch in base deactivates lift-switch when necessary. (2) Press the front bar for push-to-talk; gives inter-

cam convenience. (3) Move the lever lock switch forward; the mike stays live freeing hands.

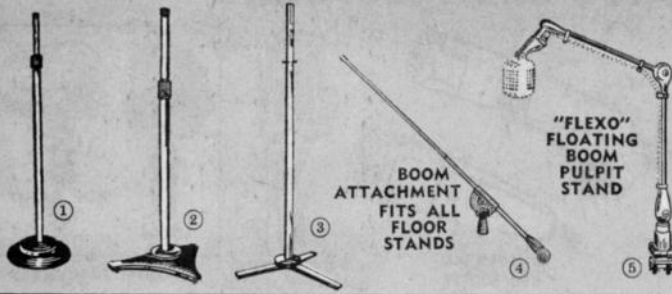
2-Way switching is same, less lift switch. DPST switching is for microphone and relay, SPST for microphone only. Pickup pattern, non-directional. All elements high impedance. Dynamic output -52 db, response 60-10,000 cps. Crystal output -48 db, response 60-8000 cps. Size 5 1/2 x 5" base, 7 3/4" H. wt. 3 lbs.

Stk. No.	Turner	Type	Switching	Overall Finish	Mfg. List	Net Each
29A379	250	Dynamic	3-Way, DPST	Chrome	\$49.50	\$29.11
29A380	252	Dynamic	2-Way, DPST	Grey	36.50	21.46
29A381	256	Crystal	3-Way, DPST	Chrome	35.00	20.58
29A382	254	Crystal	2-Way, SPST	Grey	23.50	13.82





## MIKE FLOOR STANDS AND BOOMS



① **B-A LEADER VALUE FLOOR STAND** A top-notch quality stand with heavy high-glass double chrome plated Brass Tubes. Easily adjustable from 35" to 64" in height by simple, damage-proof one-hand clutch, without mar or scratch on the chrome tubes! Weighted 10" dia. base is finished in baked wrinkle enamel, has pads to prevent floor mars. Clean 5/8"-27 threads.  
Stock No. 32A3. Leader Value Floor Stand. Wt. 9 lbs. Net Each **\$5.73**

### 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 "Anti-tip" bases with chrome cover or scuff-proof baked on gray 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.

Stk. No.	Model	Height	Weight	Base	Net Each
① 32B12	MS-11C	35" to 65"	12 lbs.	10" Chrome	<b>\$7.64</b>
① 32A1	MS-20	37" to 66"	15 lbs.	12" Wrinkle	<b>9.41</b>
① 32A2	MS-25	37" to 66"	24 lbs.	17" Wrinkle	<b>16.29</b>

② **FOLD-UP DELUXE FLOOR STAND.** Button at top gives one-hand height control from 37" to 66". Locks automatically. Locking-type adjustable legs permit stand to be placed against wall. Legs fold back for storage, have 17" spread when extended. Beautiful satin chrome finish. Standard 5/8"-27 threaded stem. Shpg. wt. 9 lbs.  
No. 32A11. Electro-Voice 425. Mfg. list \$30.00. Net Each. .... **\$17.64**

③ **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. 32B14. Atlas BB-1. Mfg. List \$7.50. Net Each. .... **\$4.41**

④ **"FLEXO" MIKESTER Clamp-On Desk or Pulpit Boom Stand.** Has universally adjustable spring controlled floating arms. Clamps to any desk or pulpit; positions microphone in 36" arc in any direction—the BEST Pulpit or Desk Stand! Weight, 6 lbs.  
No. 31A50. "FLEXO" MIKESTER Pulpit or Desk Stand. Net Ea. **\$8.23**

## POCKET SIZE TWO-WAY RADIO 9 TRANSISTOR CITIZENS BAND WALKIE-TALKIE



**\$49.95**  
Each

**SAVE \$10 MORE  
PAIR \$89.95**

**TOP QUALITY IMPORT  
COMPARE AT  
OVER \$100 EACH**

**FOR**

- Reliable voice communications wherever you go.
- Extra convenience and safety.
- Up to 1 mile or more range.

**NO LICENSE  
REQUIRED! CAN  
BE OPERATED  
BY ANYONE**

Provides clear, understandable 2-way voice contact. Allows complete freedom of movement, no wires! Supplements or takes the place of speakers, intercoms and telephone hookups on construction jobs, materials yards, playing fields, etc. Outmodes wig wag signals and loud shouting, providing greater safety and convenience for outdoors men in boating, hunting, surveying, etc. Up to 1 mile range, more over water.

Tiny yet thoroughly reliable crystal controlled transmitter-receiver is contained in a compact and light-weight metal case, only 6 7/8" x 2 1/2" x 1 5/8". Finely engineered superheterodyne circuit uses 9 transistors, 1 diode, 1 temperature compensating varistor. Receiver sensitivity 2 microvolts, transmitter power input 90 mv. Has push-to-talk switch, internal speaker-microphone and telescoping antenna. Powered by 7 easy-to-get penlight cells. With leather carrying case, personal earpiece and crystal for channel 7, less batteries.

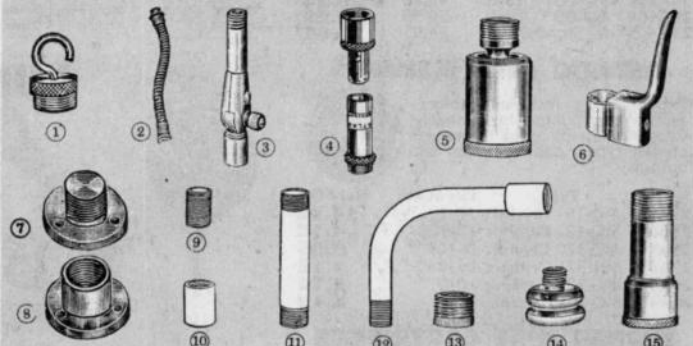
No. 35A314  
Special Each..... **\$49.95** Pair **\$89.95**  
For

## DESK AND BANQUET MIKE STANDS



- ① **ATLAS "CHESTY" MIKE SUPPORT.** Hangs around neck on lavalier cord. Wire frame and flexible gooseneck hold mike—no hands!  
No. 32A213. Atlas NS-1. Mfg. List \$5.00. Net Each..... **\$2.94**
- ② **CLAMP-ON BRACKET.** Holds securely on flat surface 2" thick or less. Chrome 6" long tube, 5/8"-27 thread. Wt. 2 lbs.  
No. 20A601. Atlas BC-1. Mfg. List \$3.50. Net Each..... **\$2.06**
- ③ **MULTI-PURPOSE BRACKET.** Swivels 350° at base or up and down, with positive stops. Moving parts spring loaded. Needs no locking adjustments. Cable may be concealed in arm. Completely tamper-proof. All chrome. Length 12 3/4". 5/8"-27 threaded. Wt. 3 lbs.  
No. 20A798. Atlas US-2. Mfg. list \$9.50. Net Each..... **\$5.59**
- ④ **TOUCH-TO-TALK DESK STAND.** Dependable, DPDT switch action for relay control, paging, radio communications. May be locked "on", or instantly released. Chrome and gray. 7" H., 5 1/8" dia.  
No. 20B688. Electro-Voice 428. Mfg. List \$17.50. Net Each..... **\$10.29**
- ⑤ **"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. 20A944. Atlas DS-10. Mfg. List \$5.00. Net Each..... **\$2.94**
- ⑥ **CHROME-BRASS TUBE DESK STAND.** Stem 4" high, base 6" dia., padded feet, gray wrinkle finished. 5/8"-27 thread. Wt. 2 lbs.  
No. 20A930. Atlas DS-5. Mfg. List \$3.00. Net Each..... **\$1.76**
- ⑦ **ADJUSTABLE DESK STAND.** Velvet action clutch adjust height 8" to 13". Chrome brass 5/8"-7/8" tubes. Padded, gray wrinkle 6" base. 3 lbs.  
No. 20B602. Atlas DS-7. Mfg. List \$5.00. Net Each..... **\$2.94**
- ⑧ **"VELVET ACTION" BANQUET STAND.** Adjustable height 14 1/2" to 26". Super chrome 5/8"-7/8" brass tubes. Heavy 5 lb. 8" dia. padded base, red lined gun metal finish. Wt. 7 lbs.  
No. 31A56. Atlas TS-6. Mfg. List \$9.00. Net Each..... **\$5.29**

### HANDY MIKE MOUNTING ACCESSORIES



Highest quality chrome plated fittings, standard 5/8"-27 threaded, for attaching microphone to almost any stand, pipe or flat surface.

Stk. No.	Description	Net Ea.	Stk. No.	Description	Net Ea.
① 17A1073	Suspension Hook	\$1.41	⑦ 17A587	Female Flange 1 1/4" Dia.	.41
② 20C792	6" Flex. Goose Neck	1.18	⑧ 20C794	Threaded Nipple 3/4" L.	.18
③ 20C917	13" Flex. Goose Neck	1.62	⑨ 20C795	Female Threaded Coupling	.35
④ 20A872	19" Flex. Goose Neck	2.35	⑩ 20C790	3" L. Extension Tube	.38
⑤ 19B632	4 1/2" L. Swivel Adapt.	2.65	⑪ 17A588	6" L. Extension Tube	.44
⑥ 19B635	Snap-on Mike to Stand Adaptor	1.62	⑫ 20C796	Right Angle Bend	.88
⑦ 20A605	Shock Absorber Adapt.	1.76	⑬ 20A609	5/8"-27 Male to 1/8" IPT Female	.35
⑧ 19B621	Cable Hanger for Stand.	1.47	⑭ 20A608	5/8"-27 Fem. to 1/8" IPT Male	.45
⑨ 17A586	Male Flange 1 1/4" Dia.	.41	⑮ 20A606	5/8"-27 Male to 1/2" IPT Female	.88

## CARDIOID DYNAMIC STEREO MICROPHONE

Designed for Home Stereo Recording.

Professional fidelity dynamic moving coil type with dual cardioid cartridges set at right angles for left and right stereo channels. Has unusually high output, -50 db, and greater sensitivity than other mikes. High impedance, 25,000 ohms. Aluminum and steel encased dynamic elements will take rough handling and high temperatures up to 165° F. Withstands high humidity. Fine for open air or indoors

Attractively housed in very strong plastic finished in blue and gray. Height 6 1/2". With base and attached 16 ft. 3 conductor shielded cable. Wt. 2 lbs. Mfg. list \$39.50  
No. 29A259. Net Each..... **\$29.50**



**NORELCO PROFESSIONAL  
QUALITY - SAME AS WITH  
\$399.50 RECORDER**

# MICROPHONE CONNECTORS AND ACCESSORIES

## AMPHENOL MICROPHONE 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. Type 75-MC1M is supplied less the coupling ring. Type 75-CL-PC1M has a spring contact to short across circuit when cable connector is removed.

Stk. No.	Type	Description	1-49 Each	50-249 Each	250 Each
12A311	75-MC1F	Univ. Male or Female	\$0.44	\$0.34	\$0.31
12A312	75-MC1M	Male, Less Ring	.40	.31	.28
12A317	75-MC1F-A	Female, Angle	1.23	.85	.86
12A313	75-PC1M	Male, Chassis	.36	.27	.24
12A315	75-CL-PC1M	Chassis, Shorting	.50	.39	.35
12A318	75-MC1P	1/4" Phone Plug Adapter	.48	.37	.33
12A319	75-CC1	Dust Cover	.42	.32	.29

## AMPHENOL MIKE SWITCH



Male end, female on other, mates with all standard 5/16-27 single contact connectors. Push-to-talk or slide switch for permanent contact. Shorts across circuit in "OFF" position.

Stk. No.	Type	1-49 Each	50-249 Ea.	250 Ea.
12A316	75-MC1S	\$1.89	\$1.48	\$1.32

## AMPHENOL SHIELDED CABLE CONNECTORS



Equipped with screw coupling ring to prevent accidental disconnection. Brass chrome-plated. 2 and 3 contact cable connector has 1/8" spring cord protector, 4-contact has 3/8". Type 1 chassis connector mounts in 5/8" hole. Type 2 mounts in 1/2" hole.

Stk. No.	Type	Fig.	Cont.	Description	1-24 Ea.	25-99 Ea.	100 Ea.
12A320	80MC2M	1	2	Male, Cable	\$0.84	\$0.50	\$0.45
12A321	80MC2F	2	2	Female, Cable	.88	.46	.41
12A323	80PC2F	3	2	Female, Chassis	.57	.44	.40
12A324	91-MC3M	4	3	Male, Cable	.88	.88	.62
12A326	91-MC4M	4	4	Male, Cable	.90	.70	.63
12A325	91-MC3F	4	3	Female, Cable	.85	.66	.59
12A327	91-MC4F	4	4	Female, Cable	.89	.69	.63
12A329	91-PC3F	3	3	Female, Chassis	.72	.56	.51
12A331	91-PC4F	4	4	Female, Chassis	.74	.57	.52
12A332	91-CCC-3	Cop and Chain for 91 Series			.39	.30	.27

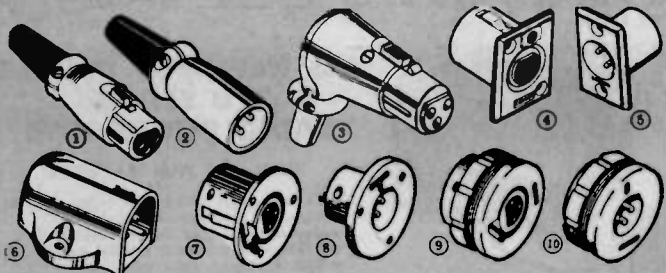
## SWITCHCRAFT "MINI-MIX" 2 INPUT MIXERS



Accommodates two high impedance microphones or pickups, each with separate gain control for mixing. Control knobs are recessed. Case is metal, size 2 1/8" x 1 1/8" x 1 1/8", with attractive brown finish and nickle plated accessories. Wt. 4 oz.

12B454	Type 310, Phone Jack Inputs, Phone Plug Output.	Net Ea. \$4.87
12B450	Type 315, Phone Jack Inputs, Mike Conn. Output.	Net Ea. \$4.87
12B455	Type 320, Male Mike Connectors In, Female Out.	Net Ea. \$4.87
20A259	Type 340, Same as type 310, less volume controls.	Net Ea. \$2.21

## CANNON XLR AUDIO CONNECTORS



Durable professional type connectors for audio equipment. Standard on many types of microphones, amplifiers and recorders. (3 conductor). Mating units are polarized and equipped with a latchlock device to prevent accidental disconnection. Housing finish is nickel satin. 1 and 4 have serrated finger grips for easier handling. With cable clamp and neoprene cable relief. Will take up to 1/8" O.D. cable. Shpg. wt. 2 oz.

Stk. No.	Type	Description	1-9 Each	10-49 Each
12C257	XLR-3-11C	female cable plug	\$1.29	\$1.18
12C259	XLR-3-12C	male cable plug	1.13	1.03
12A194	XLR-3-15	90° female plug	3.38	3.10
12C260	XLR-3-31	female wall rcpt.	1.93	1.77
12C261	XLR-3-32	male wall rcpt.	1.10	1.01
12A193	XLR-3-42	90° male mike rcpt.	1.39	1.27
12B291	XLR-3-13	female wall rcpt.	1.85	1.70
12B293	XLR-3-14	male wall rcpt.	.83	.78
12B295	XLR-3-13N	female panel rcpt.	2.14	1.96
12B297	XLR-3-14N	male panel rcpt.	1.73	1.59

# SWITCHCRAFT MIKE ACCESSORIES

## MICROPHONE VOLUME CONTROL ADAPTOR



For use in high impedance circuits to increase or reduce amplifier volume. Attaches between microphone and cable with standard threaded connectors. Handy for critical adjustments of volume right at the microphone when feedback is a problem and amplifier is out of reach. Shpg. wt. 4 oz. No. 12A239. Type 329. Net Each \$4.09

## MICROPHONE CONNECTORS



1 Y-CONNECTOR. For 2 mikes in parallel on a single input. Has standard 5/16-27 threaded fittings. No. 12A307. Type 25Y. Net Each 97c  
2 DOUBLE MALE CONNECTOR. Joins two 5/16" standard female connectors. No. 12A356. Type 2501MT. Net Each 41c

3 DOUBLE FEMALE CONNECTOR. Joins two 5/16" standard male connectors. No. 12A357. Type 2501FT. Net Each 47c

## "MINI-CON" CONNECTORS

ABOUT 1/4 THE SIZE OF STANDARD CONNECTORS



For single conductor shielded cable up to 1/8" O.D. Panel receptacle mounts in 1/4" hole when grounded, 1/4" hole when insulated.

1 12A358. Type 5501F Female Cable Plug. Removable ring. Net Each 35c  
2 12A359. Type 5501M Male Cable Plug. Net Each 27c  
3 12A360. Type 5501MP Male Panel Receptacle. Net Each 21c

## READY-MADE MICROPHONE CABLE

25-ft. long with 5/16-27 Universal connectors on both ends (use as male or female). No. 20A604. Net Each \$2.94

## SWITCHCRAFT "MIX-AMP" MINIATURE TRANSISTORIZED AMPLIFIER



Designed for use with resistance type mixers such as "Mini-mix" at left, overcomes usual loss in such mixers and provides a 3 db gain. Can be used with microphones in cable circuits up to 30 ft. long without serious loss of high frequencies. Compact, completely portable, uses 9 volt battery (included). Equipped with "hi-lo" impedance switch and off-on switch. On high impedance, has a 200,000 ohm input and provides 6 db gain. On low impedance has 25 db gain with 5000 ohm input impedance. Ideal for magnetic phono cartridges. Standard phone jack input and phone plug output. No. 29A113. Model 501 Mix-Amp. Net Each \$11.76

Some as above, except has standard mike connectors input and output. No. 29A114. Model 502 Mix-Amp. Net Each \$11.76

## SWITCHCRAFT TRANSISTORIZED MIXERS

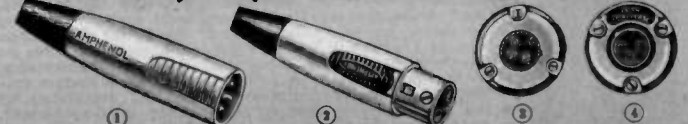
4-channel high impedance stereo-monaural mixer featuring built-in transistor amplifier in each of two stereo channels with individual gain controls on each input. "Stereo-Mono" switch allows all 4 inputs to be used monaurally. Amplifier powered by 9 volt battery (included) overcomes usual loss encountered in resistance type mixers and provides a 6 db gain. Low noise level, low distortion, frequency response 20 to 20,000 cps. 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 2" D. Rubber mounting feet. Shpg. wt. 3 lbs. No. 29A115. Model 306TR. Stereo-Monaural Mixer. Net Each \$22.05

Transistorized Monaural Mixer. Same as above except single transistor amplifier and 4 inputs for monaural use only. No. 20A197. Model 301TR. Mixer. Net Each \$17.64

## AMPHENOL "QWIK" MIKE CONNECTORS



Quick-disconnect microphone connectors make for easy, efficient operation. Disconnect is made by finger-tip slide button on side of cable connector, or depressed in a female receptacle. Finished in attractive satin nickel, made of zinc alloy. Bronze contacts are gold-plated over silver. Inserts are blue diallyl phthalate.

Stk. No.	Type	Fig.	Cont.	Description	1-24 Ea.	25-99 Ea.	100 Ea.
12A19	91-853	1	3	Male, Cable	\$1.35	\$1.05	\$0.96
12A20	91-854	2	3	Female, Cable	1.55	1.20	1.09
12A21	91-855	3	3	Male, Chassis	1.00	.77	.70
12A28	91-856	4	3	Female, Chassis	2.22	1.72	1.58
12A29	91-857	5	4	Male, Cable	1.43	1.11	1.00
12A30	91-858	6	4	Female, Cable	1.96	1.52	1.37
12A31	91-859	7	4	Male, Chassis	1.04	.81	.73
12A32	91-860	8	4	Female, Chassis	2.29	1.78	1.80



# TOP PERFORMING CITIZENS BAND 2-WAY RADIOS

BUY THE EASY WAY — ON B-A'S TIME PAY PLAN . . . NOTHING DOWN UP TO 24 MONTHS TO PAY



**MEETS ALL FCC REQUIREMENTS**

## B-A's NEW IMPROVED CLASS "D" CITIZENS RADIO PHONE



**COMPLETELY WIRED SUPERHET TRANSCEIVER**

MFG. LIST \$99.95

**\$84.50**

## CLASS "D" CITIZENS RADIO IS FOR EVERYONE!

**NOW YOU CAN HAVE YOUR OWN 2-WAY RADIO PHONE**

For Use Wherever Human Voice Communication is wanted for Personal, Business or Emergency use on Every Kind of Vehicle or at Fixed Locations.

Operating permit available to USA Citizens age 18 or older by application on FCC Form 505. Transmitter power is limited by law to 5 watts maximum.

**NORMAL RANGE:** Distances covered are dependent on local terrain and effectiveness of equipment and antennas; therefore ranges cannot be guaranteed. Typical base station installations, using proper antenna installed in the clear can usually operate up to 15 or 20 miles; base to mobile up to 5 or 10 miles; between mobiles up to 3 or 5 miles. Operation over water is particularly effective. For Mobile and Base Station Antennas see page 124

**QUANTITY USERS;** Write B-A's Citizen Band Radio Dept. for recommendations and price quotations.

- SATISFYING PERFORMANCE • COMPLETE OPERATING CONVENIENCE • ALL THE WANTED FEATURES

**Receiver Section.** Super sensitive super-het with vernier tuning on all 22 citizens band channels. Has built-in "S" meter, full squelch control, noise limiter, AVC, RF stage, high selectivity, stable non-drift performance and 3 watts audio power. Internal speaker gives crisp clear reproduction.

**Transmitter Section.** Full 5 watts (legal maximum) input power to a plate modulated RF power amplifier, crystal controlled on any of the 22 channels. Has front panel selector for 5 crystals, all easily accessible from top of set, press-to-talk ceramic microphone, fool proof relay control and meter to read plate current of amplifier. Transmitter output matches dipole, ground plane, beam or mobile

antennas through coaxial connector at rear. In durable steel grey cabinet 10 1/4" x 6 3/8" x 4 3/4" H. grey and aluminum panel. With microphone, crystal for 1 channel and universal mobile mounting brackets. Wt. 9 lbs.

No. 35A267. Mfg. list \$99.95. **\$84.50**

For 115 V. 60 Cy. AC. Net.....

Mobile Power Supply. For battery operation in autos, boats, etc.

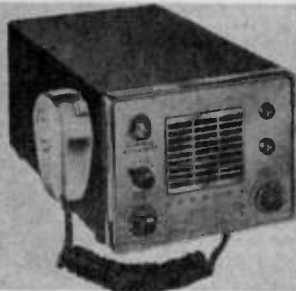
No. 35A255. Model TR-12. For 12 V. Net....\$12.95

No. 35A256. Model TR-6. For 6 V. Net.....\$12.95

Extra Transmitting Crystals. For any of 22 channels. Specify frequency or channel.

No. 50A62. Net Each.....\$2.95 4 For.....\$10.95

## FOR THE VERY BEST PERFORMANCE



### JOHNSON MESSENGER 5-CHANNEL CLASS "D" TWO-WAY RADIO TRANSCEIVER

- Operates with highest transmitter efficiency because circuits and components are capable of more than twice the power used.
- Receives with maximum readability over greatest possible distance—no finer receiver made.

Deluxe 10 tube superheterodyne receiver-5 watt transmitter combination that performs with unmatched clarity. Superbly engineered, uses ruggedized components, many of which meet military requirements.

Has automatic noise limiter, adjustable automatic squelch, automatic volume control, extreme sensitivity for reading weak signals, greater selectivity for minimum adjacent channel interference, 5-channel switch on front panel and press-to-talk ceramic microphone. Switching channels requires no realignment for peak operation. Efficient conservatively rated transmitter has adjustable pi-net output for all antennas and transmit indicator to monitor operation. Dual power units use vibrator type DC supply.

In perforated steel cabinet, grey wrinkle finished with chrome plated front panel. Size 5 7/8" x 7 1/8" x 1 1/2" deep. Shpa. wt. 14 lbs. With crystals for one channel, less antenna

No. 35A589. Model 242-128. 115 V. AC/12 V. DC. Net Each. **\$144.95**

No. 35A590. Model 242-127. 115 V. AC/6 V. DC. Net Each. \$144.95

No. 35A591. Model 242-126. 115 V. AC only. Net Each. \$134.95

No. 35A592. Model 251-828. Under dash mounting kit. Net Each. \$2.50

No. 35A593. Model 251-830. Swing-away handle. Net Each. \$1.50

No. 50A94. Crystals for other channels. Specify channel. Per Pair. \$5.90

## NEW JOHNSON PERSONAL MESSENGER HAND-HELD 2-WAY RADIO TRANSCEIVER

**BUY ON EASY TERMS 24 MONTHS TO PAY**



- May be operated without license.
- Has full squelch control.
- Automatic volume control.
- Built for "on-the-job" service.

Vastly improved superheterodyne circuits operate built-in loudspeaker with clear intelligibility giving up to 40% greater range over similar 100 milliwatt units. Operating range usually up to a mile or more. Works for short range paging or 2-way with antenna fully collapsed. Requires no license when used with other 100 milliwatt transceivers; when licensed, operates at extended range with system employing full power transceivers. Uses 11 transistors, 4 diodes, powered by 8 penlight cells in plug-in compartment, or by optional long life nickel-cadmium rechargeable battery. Battery compartments are quickly interchangeable.

In rugged high-impact case 8" H, 3 1/2" W, 2" thick with convenient strap handle. Wt. and 8 cells 2 1/2 oz. Furnished with plug-in crystals for 1 channel, less batteries.

No. 35A332. Model 242-101-1. **\$109.50**

Net Each.....

No. 35A325. Set of 8 Penlight "Z" Cells. Net.....\$1.12

Nickel Cadmium Battery with Charger for 115 V. 60 cy. AC in sealed plug-in compartment.

No. 35A333. Model 250-804. Net Each.....\$19.95

No. 35A334. Private Earset. Net.....\$2.95

No. 50A66. Crystals for Other Channels. Specify Channel. Pair For.....\$5.90

## SAVE \$\$\$! BUILD YOUR OWN...

### EICO CLASS "D" RADIO PHONE

SIMPLE "BEGINNER-TESTED" STEP-BY-STEP INSTRUCTIONS GUIDE YOU TO A PERFECT COMPLETION

### NEW TRANSISTORIZED WALKIE-TALKIE

All U.S. made . . . on original product of EICO research, so designed that anyone can complete the assembly and wiring at tremendous savings in cost.

Tiny size, only 1 5/8" x 2 5/8" x 7 1/8" long in neat, durably finished aluminum case. Self-contained rechargeable nickel-cadmium battery (charger included) provides from 10 to 12 hours intermittent operation on one charge.

Full superhet circuit (7 transistors, 1 diode) has amazing 1 to 2 micro-volt sensitivity, 100 milliwatt transmitter power. Range up to 1 mile or more. Built-in speaker—mike gives clear reproduction. Has jack for ear-set, 41" telescoping antenna, nickel cadmium battery and charger, crystal for channel 16 and simple pictorial instructions. Shpa. wt. 2 lb.

No. 35A356. Model 740K Kit. Net Each. **\$54.95**

No. 35A357. Model 740W. Factory

Wired and tested. Net.....\$79.95

CRYSTALS FOR OTHER CHANNELS

No. 50A63. Specify channel. Matched

Pair For.....\$5.90

**\$54.95**  
KIT

**NOW... For First Time in KIT FORM**

**REQUIRES NO LICENSE OR PERMIT**



## ALL NEW EICO DELUXE 770 SERIES RADIO PHONE KITS

WITH ALL THE FEATURES

- Press-to-talk mike and relay control.
- Tunable all-channel receiver.
- Optional crystal receive channel.
- 4 channel transmit crystal switch.
- Full featured superhet circuit.



Operates with complete versatility, complete convenience . . . allows reception of everything between 26.965 and 27.255 MC.

**There's nothing missing!** Receiver has RF stage, adjustable squelch plus noise limiter, AVC, full selectivity and sensitivity, fine electrical stability, 8 tubes (4 are dual purpose). Crisp, clear audio from 3x5 P M speaker. Transmitter operates at full 5 watts. Meets all FCC requirements. All self-contained with power supply in 6x8 1/2 x 9" brown and beige steel cabinet. Dualpowered units have mobile bracket. With 1 transmit crystal. 12 lbs.

No. 35A358. Model 772K. Kit for 117 V. AC and 12 V. DC. Net Ea. \$79.95

No. 35A359. Model 772W. Factory Wired and Tested. Net Each. \$109.95

No. 35A360. Model 771K. Kit for 117 V. AC and 6 V. DC. Net Each. \$79.95

No. 35A361. Model 771W. Factory Wired and Tested. Net Each. \$109.95

No. 35A362. Model 770K. Kit for 117 V. AC only. Net Each. \$69.95

No. 35A363. Model 770W. Factory Wired and Tested. Net Each. \$99.95

CRYSTALS FOR OTHER CHANNELS (Specify Channel)

No. 50A64. Matched pair, Receiving and Transmitting. Pair For.....\$5.90

No. 50A65. Transmitting Only. Net Each.....\$2.95

**FINEST RECEIVERS FOR WORLDWIDE SHORTWAVE LISTENING**  
**AVAILABLE ON B-A's EASY PAY PLAN . . . NOTHING DOWN . . . UP TO 24 MONTHS TO PAY**

**HALLICRAFTERS S-119 "SKY BUDDY"**  
**SHORT WAVE & BROADCAST BAND RECEIVER**



\$39.95  
 KIT **\$49.95**  
 Wired

- Receives Voice and Code Signals.
- Tunes Music and News Broadcasts.
- You Listen on Built-In Speaker or Headphones.
- Available Wired or in Kit Form.

**FOR FUN-FILLED HOURS OF LISTENING AT LOWEST COST!**

The famous old name "Hallcrafters Sky-Buddy" is remembered with nostalgia by many old-timers in radio who first thrilled to the wanders of short wave listening while tuning a set with the identical name. The new Sky-Buddy has been revised . . . it's completely up-to-date . . . far more sensitive to weak signals . . . much easier to tune . . . you'll enjoy hours of pleasure tuning short wave, foreign broadcasts, hams, time signals, etc. on two bands 2 to 5.5 MC and 6 to 16 MC; also standard broadcast 535 to 1620 KC. Superheterodyne, 3 tubes, separate diode detector. Has beat oscillator for code reception. Safe transformer operated, with silicon rectifier. 117 V. 60 cy. AC only. Size 10 1/2" W x 7 1/2" deep, 5" H. Wt. 9 lbs. **\$49.95**  
 No. 35A445. Factory Wired. Net

**SAVE \$10—SKY-BUDDY IN KIT FORM**

With easy, beginner-tested pictorial instructions. Can be finished by anyone perfectly. With tubes. **\$39.95**  
 No. 35A446. S-119K. Net

**BRAND NEW FROM HALLICRAFTERS . . .**

**\$99.95**

**MODEL S118**  
**5 BAND RECEIVER**

**WITH 185 KC TO 31 MC TUNING RANGE**



- Covers Shortwave, Broadcast and Longwave.
- Electrical Bandspread Slide-Rule Dial.
- Noise Limiter—5 Tubes Plus Rectifiers.

Features a plenty! Tremendous tuning range covers low band aeronautical, mobile and international distress frequencies plus U. S. Gov't. weather broadcasts, not found on any other set . . . as well as the broadcast, amateur and international shortwave bands. All 5 bands, 185 KC to 420 KC, 495 KC to 1.62 MC, 1.6 MC to 4.95 MC, 4.85 to 15 MC, 14.8 to 31 MC clearly calibrated on full-length slide rule dial bandspread for easy tuning. Has automatic noise limiter, beat oscillator for code, internal speaker; jacks for headphones, phono input and socket on rear for external power source. Transformer operated, 105/125 V. 60 cy. AC. Size 13 3/4" x 6 1/8" x 8 1/2" D. Wt. 19 lbs. **\$99.95**  
 No. 35A447. Net

**MAKE YOUR LISTENING POST REALLY COMPLETE**

**NEW HALLICRAFTERS VHF RECEIVERS**

• INDUSTRIAL • POLICE • AIRCRAFT



**3 MODELS TO MONITOR ALL OPERATIONAL AND EMERGENCY BROADCASTS**

- 30-50 MC FM
- 108-135 MC AM
- 151-174 MC FM

**MANUAL OR CRYSTAL CONTROLLED TUNING**

Dependable high quality double or triple conversion superhet receivers with modern trim styling for home, office or base station. All have high sensitivity, RF amplifier, built-in speaker, switch for external speaker, adjustable squelch for quiet standby. Requires only 1 to 1 1/2 microvolt signal to open squelch. Vernier tuning covers entire range manually or can be switched to crystal control for either of 2 channels (crystals optional). In gray steel cabinet with silver trim, 13 1/2 x 5 7/8 x 8 3/4" deep. For 105/125 V. 50/60 cy. AC, approx. 50 watts. Wt. 15 lbs.

**Model CRX-1. 30-50 MC FM. (Industrial) Split channel, narrow band FM. Triple conversion, 9 tubes 2 silicon diodes. \$99.95**  
 No. 35A442. Net Each

**Model CRX-2. 151-174 MC FM. (Police) Like CRX-1, except has 10 tubes, 2 silicon diodes. \$109.95**  
 No. 35A443. Net Each

**Model CRX-3. 108-135 MC AM. (Aircraft) Dual conversion, 7 tubes, 1 crystal diode and 2 silicon diodes. \$94.95**  
 No. 35A444. Net Each

**SINGLE CHANNEL CRYSTAL FOR CRX-1, CRX-2, OR CRX-3 \$4.45**  
 No. 50A89. Specify exact frequency of station. Net Each

**HALLICRAFTERS MODEL S-120 SHORTWAVE RECEIVER**

**COMPLETELY WIRED**  
**READY-TO-GO**

**\$69.95**



**IT'S A WINNER**

- Features 3 Antennas.
- Slide Rule Bandspread Dial.
- New Compact Styling.

**AN EXCITING SHORTWAVE SET . . . A FINE STANDARD BROADCAST RECEIVER TOO!**

You can be in on the action with this exciting new high styled super-sensitive radio receiver. Tunes 1600 KC to 30 MC and 550-1600 KC . . . pulls in the best of short wave on voice and code; ships, planes, foreign stations, amateurs, police, emergency and military stations from all over the world, plus everything on the standard broadcast band.

Features choice of 3 antennas, ferrite loop for broadcast band, adjustable whip for short wave reception or wire antenna (all except wire antenna are supplied). Has large slide rule dial to show you where to listen for what, electrical bandspread for greatest tuning ease, built-in speaker with front panel jack for headphone or external speaker, BFO/selectivity control, standby/receive switch, 4 tubes plus one rectifier. Beautiful new compact styling with "clean look" of modern precision equipment will complement any room. Cabinet is gray steel with silver trim. 13 1/2 x 5 7/8 x 8 3/4" deep.

Operates from 105-125 V. 50/60 cy. AC/DC. 30 watts. Shpg. wt. 12 lbs. **\$69.95**  
 No. 35A293. Net Each

**NEW NATIONAL NC-190 DELUXE GENERAL COVERAGE RECEIVER**

**\$199.50**



- Exclusive Dial Selector Provides Calibrated Amateur or Foreign Broadcast Bands.
- 60:1 Bandspread Tuning Ratio.
- 5 Band Coverage SSB/CW or AM.
- Edge Reading "S" Meter.

**DOUBLE CONVERSION—VARIABLE IF SELECTIVITY**

Has tremendous performance advantages over sets costing up to \$100 more because of great sensitivity (11 microvolt for 10 db S/N ratio) and the exclusive National Ferrite Filter giving choice of 5 KC AM, 3 KC SSB or 600 cycle CW selectivity. Uses 10 tubes including rectifier and voltage regulator in a double conversion circuit having separate product detector for SSB, series gate noise limiter, RF amplifier, AVC on both AM and SSB/CW. Highly stable both mechanically and electrically. Attractive blue finished cabinet 8 3/4 x 15 3/4 x 9" deep. Wt. 28 lbs. For 105-125 V. 50-60 cy. AC. **\$199.50**  
 No. 35A440. Net Each

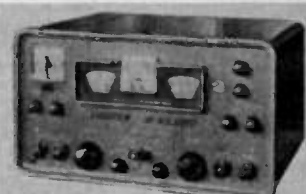
Matching Speaker, Model NTS-3. **\$19.95**  
 No. 35A306. Net Each

No. 35A441. 100 KC Crystal Calibrator. XCU-109. Net Each. **\$20.95**

**POWERFUL 18-TUBE HAMMARLUND HQ180C**

**A "DREAM RECEIVER" THAT HAS EVERYTHING**

**FOR FINEST SHORT WAVE LISTENING, COMMERCIAL OR AMATEUR USE!**



- Has Telechron Clock Timer For Automatic "Turn-on"
- 10 Mtr. thru 80 Mtr. Amateur Bands Calibrated.
- Crystal Filter Plus Adjustable Slot Filter.
- Crystal Calibrator Built-In.
- Automatic Noise Limiter.
- Calibrated "S" Meter.

**TUNES: .54MC to 30MC . . . AM-SSB-CW At Its Very Best**

Greatly advanced circuit techniques allow almost infinite "tuning" adjustment to overcome troublesome interference and great sensitivity; 1.5 microvolt on AM, .5 MV on CW to distant, weak signals; yet not complicated in operation. Here truly is the "dream" receiver for the serious listener.

Super high performance meets critical professional requirements. Has high frequency crystal filter in triple conversion IF ranges, tuned IF amplifier with 7 position selectivity from .5 to 6 KC, separate linear detector, selectable side band, automatic noise limiter also on CW and SSB and "auto-response" audio that automatically adjusts to receiving conditions.

In modern design cabinet with heavy die cast panel. Size 10 1/2" x 14" x 13" deep. For 115 V. 60 cy. AC. 120 watts. **\$439.00**  
 No. 35B535. Less speaker. Shpg. wt. 45 lbs. Net Each

Matching Speaker. 6x9" PM. Shpg. wt. 8 lbs. **\$19.95**  
 No. 35A498. Model S-200. Net Each



**HAMS SWL's CB'ers**

# GET YOUR BEST DEAL AT B-A

**•TOP TRADES •EASY TERMS •FAST PERSONAL SERVICE**

**B-A's COMPLETE AMATEUR DEPARTMENT CAN SERVE ALL YOUR NEEDS FOR THE LATEST FRESH NEW GEAR OR MONEY-SAVING TRADE-INS**

Yes Sir... We mean it! B-A gives you the best deal, saves you \$\$ and trouble. Call or write for fast information. Our Ham Dept. is staffed with active Hams you know on the air... men with years of experience who will help you whether you are just getting "started," or after years of hamming, are finally "trading-up" to a new CW, AM or SSB rig.

TWO BIG STORES TO SERVE YOU  
Write us... or call us... send US your order.  
Burstein-Applebee Co., Amateur Dept.  
1012 McGee 301 E. 55th St.  
BAaltimore 1-1155 Kansas City, Mo. Emerson 3-1881

WRITE FOR FREE USED GEAR PRICE LIST

**CHECK B-A FOR A-1 RECONDITIONED HAM GEAR**

**MONEY-SAVING 3-WAY GUARANTEED TRADE-INS**

- 1** 90-DAY WARRANTY ON ALL COMPONENTS
- 2** 10-DAY TRIAL AND MONEY-BACK GUARANTEE (Full Refund of Purchase Price less only transportation charges)
- 3** 90-DAY 100% RETURN VALUE ON NEW GEAR (If returned in original condition)

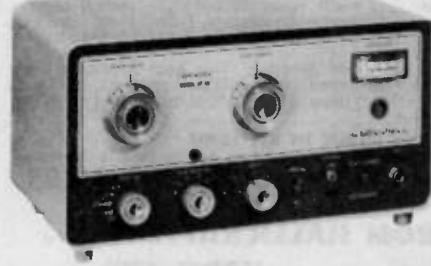
## hallicrafters HALLI-KITS... BUILD-AND-SAVE OR BUY READY-TO-OPERATE A COMPLETE HAM STATION AT REAL DOWN-TO-EARTH PRICES



COMPLETE RECEIVER KIT  
**104<sup>95</sup>**  
WIRED \$124.95

### MODEL SX-140K RECEIVER KIT

Completely new in design, both in styling and circuitry. Tunes six amateur bands, 80, 40, 20, 15, 10 and 6 meters, CW AM and SSB signals. Has easy-tuning 25 to 1 ratio slide rule dial, crystal calibrator band edge marker, built-in crystal oscillator circuit for IF alignment. "S" meter combination BFO/variable selectivity control, automatic noise limiter, antenna trimmer, high sensitivity and sharp selectivity... all the important features of a complete amateur receiver. Uses 5 dual purpose tubes and 2 silicon diode rectifiers. Cabinet is professional gray steel, 13 3/8" x 8 1/8" x 6 5/8" H. Power drain only 47 watts, 117 V. 50/60 cy. AC. Wt. 14 lbs.  
No. 35A296. SX-140K Receiver Kit, Net Each... **\$104.95**  
No. 35A295. Factory Wired SX-140 Receiver, Net Each... **\$124.95**  
No. 35A9. R48 SPEAKER, Ea \$19.95 No. 35A472. R47 Speaker, Ea \$12.95



COMPLETE TRANSMITTER KIT  
**\$89<sup>95</sup>**  
WIRED \$109.95

### MODEL HT-40K TRANSMITTER KIT

A carefully designed 75 watt six band (80 thru 6 meters) CW/AM phone rig with features as important to old timers as they are to novices. Compact in size and light in weight... matches the SX-140 Receiver perfectly. Well engineered circuit uses a 6CX8 crystal oscillator/buffer, 6DQ5 power amplifier with adjustable pi-section output to match antenna impedance, 12AX7 speech amplifier and 6DE7 modulator, plus 2 silicon diode rectifiers in the power supply. Features TVI and harmonic suppression, low hum and noise, dual range tuning meter, ideal CW keying. Operates full 75 watts input power on all bands except 6 meters where input is slightly less. Operates on 117 V. 50/60 cy. AC power. Wt. 19 lbs.  
No. 35A297. HT-40K Transmitter Kit, Net Each... **\$89.95**  
No. 35A294. Factory Wired HT40 Transmitter, Net Each... **\$109.95**

### THE TOPS IN POPULARITY



SX111



HT37

**HALLICRAFTERS SX-111 RECEIVER.** New top-performer for the hard-to-please SSB-CW-AM operator. Covers 80, 40, 20, 15 and 10 meters in 5 full length band spread ranges, plus 10 MC WWV check point. Has most of the fine features of the famous SX-101, including a high degree of mechanical and electrical stability. Sensitivity 1 microvolt on all bands, selectivity adjustable in 5 steps from 500 to 5000 cps. Double conversion, 10 tubes plus regulator and rectifier, crystal calibrator, selectable side-band, "Tee-Notch" filter, noise limiter and S meter. For 105/125 V. 50/60 cy. AC. Size 18 1/2 x 10 1/8" deep. Shpg. wt. 40 lbs. Use R47 or R48 Speaker  
No. 35A167. Less Speaker, Net Each... **\$279.50**

**HALLICRAFTERS HT-37 TRANSMITTER.** Acclaimed everywhere as the very best phasing type SSB-AM-CW unit available at moderate cost. Band switching, 80, 40, 20, 15 and 10 meters; 144 watts input (PEP two-tone) to pair of 6146's with pi-net output. Has a highly stable VFO, ideal CW keying, both sidebands transmitted on AM, SSB with carrier suppression down 50 db, and unwanted sideband down 40 db, full VOX control, dual range meter for tuning, 15 tubes plus 2 rectifiers and regulator. For 105/125 V. 50/60 cy. AC. Size 8 1/8 x 19 3/8 x 15 7/8" deep.  
No. 35A162. Shpg. wt. 80 lbs. Net Each... **\$450.00**

### LATEST HALLICRAFTERS GEAR



HT41



SX115

**NEW HALLICRAFTERS HT-41 KW LINEAR AMPLIFIER.** Ideal low cost companion for the HT-37 or other SSB exciter that delivers 20 to 100 watts output. Real "big signal" performance; 1000 watts DC input 80 thru 20 meters, slightly less on 15 and 10 meters; efficiency no less than 65%. Power input, AM phone, 450 watts. Grounded grid pi-network circuit with adjustable loading, coax output using 2-7094's, self contained power supply, 866A rectifiers, with meter for plate, grid and output. For 105/125 V. 50/60 cy. AC. Size same as HT37.  
No. 35A438. Shpg. wt. 97 lbs. Net Each... **\$395.00**

**NEW HALLICRAFTERS SX-115 TRIPLE CONVERSION RECEIVER.** 18 Tubes, 5 Diodes. Features 1 KC accurate direct reading calibration and very high stability. Sensitivity under 1 microvolt on AM, less than 1/2 microvolt SSB/CW. Tunes nine 500 KC segments, 3.5-4.0 MC, 7.0-7.5 MC, 14.0-14.5 MC, 21.0-21.5 MC, 28.0-28.5 MC, 28.5-29.0 MC, 29.0-29.5 MC, 29.5-30.0 MC, 9.5-10 MC (WWW). "T" notch filter, crystal calibrator, gear driven VFO IF type noise limiter, product detector, "S" meter. Band pass "front-end" has better out of band rejection. Spurious and image signals down 60 db or more. Use R47 or R48 speaker. 16 x 10 1/2 x 16" deep  
No. 35A439. Shpg. wt. 47 lbs. Net Each... **\$595.00**

### MULTI-ELMAC MOBILE PORTABLE TRANSMITTER & RECEIVER



- ① AF-68 "TRANS-CITER". 6 meters through 80 meters, 60 watts AM phone or CW. Directly calibrated VFO, or crystal (holds 21), 6146 pi-net final and high level PP 6L6GB modulator. 9 tubes including regulator. Charcoal and chrome, 13 1/2 x 6 1/2 x 7 1/2" deep. Shpg. wt. 18 lbs.  
No. 35A81. Less Power Supply, Net Each... **\$205.00**
- ② PMR-8 RECEIVER. AM-CW-SSB. 8 tubes, dual conversion, 7 bands, 6 through 80 meters plus regular broadcast. Features high sensitivity, low noise, effective noise limiter, upper and lower sideband selection. Matches AF-68 appearance. 4 1/2 x 7 x 9 1/2" deep. Wt. 11 lbs.  
No. 35A116. Less Power Supply, Net Each... **\$189.50**
- AC-DC Combination Power Supply. Furnishes all voltages for AF-68 and PMR-8 from 6 V. DC, 12 V. DC or 115 V. AC source. Output 500 V. DC @ 250 MA, 250 V. DC @ 75 MA and 105 V. DC regulated. Silicon rectifiers, one vibrator. 8x5x6" H. Wt. 20 lbs.  
No. 35A37. Model M-1070. Factory Wired, Net Each... **\$69.50**  
No. 35A38. In Kit Form, with Instructions, Net Each... **\$49.50**

### HALLICRAFTERS SPEAKERS

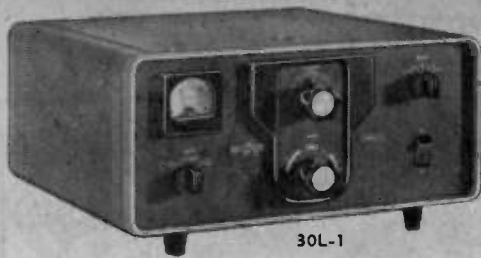


R-48

R-47

**MODEL R-48 SPEAKER.** Switch for full fidelity music or voice response. 13 1/4 x 8 1/4 x 6 5/8" H. Wt. 10 lbs.  
35A9. Each... **\$19.95**

**MODEL R-47 SPEAKER.** For phone and CW. 300 to 2850 cps. 5 1/2 x 5 1/2 x 3 1/2".  
35A472. Wt. 3 lbs. 3.2 Ohms. Ea... **\$12.95**



30L-1



312B-5



KWM-2

**NEW COLLINS 30L-1 DESK TOP KILOWATT LINEAR AMPLIFIER**

• In one package, exactly the same size as the KWM-2!  
 • Only 38 lbs. including power supply. • 1000 watts PEP input.  
 Uses 4-811A tubes in grounded grid pi-net circuit covering 80, 40, 20, 15 and 10 meter amateur bands. Has Collins exclusive features to assure sharp signals and maximum talk-power (equivalent to the famous KWS-1) without overdriving or distortion.  
 Compatible with any 70-100 watt exciter; a perfect companion for the KWM-2 or 32S-1. Has superior operating and performance features; RF inverse feedback. ALC automatic load control, antenna relays built in, exciter feed-through to antenna in "off" position, tuned matched input circuits, tuning and loading at low power with full metering. Instant heating tubes and silicon power rectifiers do not require warmup.  
 Finished in same attractive slate gray as famous S/line. Size 14 3/4" W, 6 3/8" H, 13 3/4" deep. For 115/230 V. 50-400 cps. Power requirements: CW key closed—1200 W. AC; SSB—300 W. AC no modulation, 550 W. AC speech modulated. Wt. 38 lbs.  
 No. 35A437. Net Each..... **\$520.00**

**COLLINS KWM-2 TRANSCEIVER**

• For hams on-the-go. • Finest, most operationally efficient mobile-portable SSB-CW rig available. • Operates on all bands between 3.4 MC and 29.7 MC. Receiver and transmitter performance and features similar to the S/Line. Has 2.1 KC mechanical filter and ALC for maximum talk power. RF power input 175 W. SSB PEP, 160 W. CW. Transmits and receives on exact same frequency, VOX or PTT relay controlled. Size 6 1/2"x14 3/4"x13" deep. Wt. 16 lbs.  
 No. 35A238. KWM-2. Less Speaker and Power Supply. **\$1150.00**  
 Net Each.....

**OPTIONAL ACCESSORIES FOR KWM-2**

- No. 35A15. 312-B3. Matching Speaker. Net Each..... \$32.00
- No. 35A428. 136B-2. Noise Blanking for KWM-2. Net Each..... \$124.00
- No. 35A23. 516F-2. Standard 115 V. AC Power Supply. 28 lbs. Net Ea..... \$115.00
- No. 35A261. PM-2. Portable 115 V. AC Power Supply. 13 lbs. Net Ea..... \$150.00
- No. 35A242. MP-1. Mobile 12 V. DC Power Supply. Net Each..... \$198.00
- No. 35A240. 351D-2. Mobile Mount with Cable. Net Each..... \$120.00
- No. 36A338. MM-2. Boom Microphone w/Earphone. Net Each..... \$39.00
- No. 36A339. MM-3. Boom Microphone. Net Each..... \$27.00



**GONSET G-76 TRANSCEIVER**

**ALL BANDS 6 THRU 80 METERS**  
 • AM-CW • For Fixed or Mobile



AC Supply/Speaker

12 V. Mobile Supply

Gives top performance on all bands. 6 through 80 meters—RF power input 100 watts AM phone, 120 watts CW stable, separate VFO's for transmit and receive. Crystal control optional. VFO does not function on 50 MC. Has push-to-talk and manual T-R switch, pi-network output, tuning meter "S" meter, dual conversion, automatic noise limiter, provisions for 100 KC calibrator. Sensitivity 1 mv, selectivity 3 to 3.5 KC at 6 db down. 12 1/2"x5x10 1/2" deep. Model 3349 power supply has built-in speaker. Shpg. wt. 20 lb.  
 No. 35A217. Model 3338. Less Power Supply and Speaker. **\$399.50**  
 Net Each.....

No. 35A436. Model 3365. Mobile Mounting Bracket. Net Each..... \$39.95

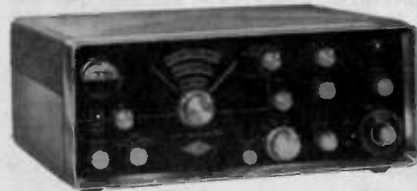
**POWER SUPPLIES FOR G-76**

No. 35A218. Model 3349. 117 V. AC Power Supply. Net Each..... \$145.00  
 No. 35A219. Model 3350. 12 V. DC Supply, transistorized. Net Each..... \$145.00

**GONSET COMMUNICATOR IV SERIES**

**AM TRANSCEIVERS**

**20 WATTS AM INPUT  
 FIXED OR MOBILE**



**2 SEPARATE MODELS**

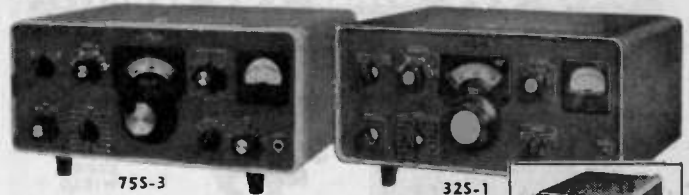
- 2 Meter • 6 Meter
- Crystal or Optional VFO

**2 METER COMMUNICATOR TV TRANSCEIVER.** 20 watts AM phone, high level modulated with speech clipping for full talk power. Has front panel jack for press-to-talk microphone. Transmitting frequency crystal controlled; front panel switch for 6 crystals. Tune-up greatly simplified through use of broadbanded exciter and panel meter. Highly sensitive and selective receiver of latest low noise design has adjustable squelch, famous Gonset noise limiter, S meter, full vision dial and built-in speaker. Internal power supply operates from 117 V. 60 cps, or 12 V. DC (transistorized), no vibrator. Size 12 3/4"x5 1/8"x10 3/4". Wt. 22 lbs. Supplied less crystals and microphone.  
 No. 35A215. Model 3341. **\$369.50**  
 For 2 Meters. Net Each.....

**6 METER COMMUNICATOR IV.** Full 24 watts power input. Triple conversion receiver has sensitivity of 1 microvolt for 10 db signal/noise ratio or better. Noise figure 6-8 db. Tunes 49.9 to 54.1 MC. Other features like 2 meter model above. Less crystals (8.333 to 9 MC range) and microphone.  
 No. 35A434. Model 3342. **\$349.50**  
 For 6 Meters. Net Each.....

**NEW COMMUNICATOR VFO**

For use with Communicator IV or other 2 Meter, 6 Meter or 220 MC transmitter that requires 8 to 9 MC crystals. Frequency stability .005%. Matches modern appearance of the IV Series.  
 No. 35A435. Model 3357. Net Each..... **\$69.50**



75S-3

32S-1



312B-4

**COLLINS S/LINE EQUIPMENT**

**FEATURING THE NEW 75S-3 RECEIVER  
 SSB-CW-RITTY AT ITS BEST!**

**75S-3 RECEIVER.** Surpasses all previous Collins 75 series receivers in performance. New features; Q multiplier, variable VFO as well as crystal VFO, AVC control, 200 cycle crystal filter plus 2.1 KC mechanical filter, optional mechanical filter for AM, spinner knob and concentric RF-AF gain controls, plus highest accuracy of calibration and stability. Tunes amateur bands 3.5 MC to 29.7 MC with coverage of any frequency in the 3.5 to 30 MC range except 5.0 to 6.5 MC by substituting crystals. Size 6 7/8" H, 14 1/2" W, 11 3/8" D. Wt. 20 lbs.  
 No. 35B416. Less Speaker. Net Each..... **\$620.00**

**OPTIONAL ACCESSORIES FOR 75S-3**

- No. 35A15. 312B-3 Speaker in Matching Cabinet. Net..... \$32.00
- No. 50A61. 3, 1, 4 or 6 KC Mechanical Filter for AM. State Choice. Net..... \$50.60

**MODEL 312B-4 SPEAKER CONSOLE**

Coordinated switching, control unit containing speaker, RF forward and reflected power meter and phone patch.  
 No. 35A20. Net Each..... **\$195.00**

**32S-1 TRANSMITTER**

175 W. PEP input on SSB, 160 W. CW. Range 3.5-29.7 MC except 5.0 to 6.5 MC. Mechanical filter sideband generation, permeability-tuned VFO, automatic load control for higher average talk power. Internal switching permits transceiver operation when used with 75S-1 receiver. Same size cabinet as receiver. Less power supply. Wt. 16 lbs.  
 No. 35A22. Net Each..... **\$666.00**

**AC POWER SUPPLY FOR 32S-1**

35A23. 516F-2. For 115 V. 60 cy. AC. 7 3/4"x10"x12". 28 lbs. Each..... \$115.00

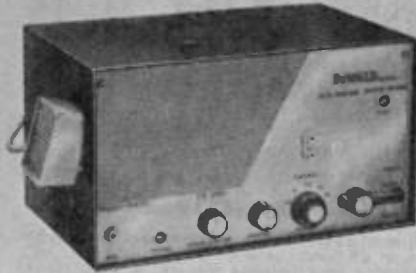
**GONSET G-50 COMMUNICATOR  
 50-WATT 6 METER STATION**

• Built-in VFO or crystal control. Complete medium power "package" for 6 meter operation. Receiver is a highly sensitive, selective superhet with "S" meter, automatic noise limiter, adjustable squelch, internal speaker. Transmitter uses 6146 in pi-network final at 40-50 watts input modulated with 2-6L6GB's. Compact housing 7 1/2" H, 13" W, 12 1/2" D. Operates on 117 V. 60 cy. AC. Less crystals and press-to-talk mike. Wt. 20 lbs.  
 No. 35A32. Model 3221. **\$319.50**  
 Net Each.....





**B-A's \$\$\$ SAVING**



**6-METER  
TRANSCIVER**  
• 10 TUBES  
• SUPERHET  
• 7 WATTS POWER

COMPLETELY WIRED  
**\$69<sup>95</sup>**

**COVERS 50-54 MC  
HAM BANDS**

**Transmitter:** Operates at 7 watts input, fully plate modulated. Matches antenna transmission lines from 30 to 140 ohms. Transmitter frequency is crystal controlled; front panel crystal socket allows quick crystal change to different frequencies.

Has built-in TVI filter, antenna trimmer, on-off and RF indicators and front panel send/receive switch. Output connection is regular SO-239 coaxial type.

**Receiver:** A full superhet with vernier dial tuning to any frequency in the amateur 6 meter band. Has automatic volume control and an adjustable noise limiter. Employs 10 tubes plus 2 diode rectifiers.

Supplied with ceramic microphone, one crystal and internal power supply for operation on 115 V. 50-60 cy. AC.

In sturdy steel cabinet, 10 1/8" x 5 7/8" x 6 7/8" dark grey baked enamel finished. Shpg. wt. 10 lbs.

No. 35A468. Model TR-850. Net Each.....**\$69.95**

**MOBILE POWER SUPPLIES**

No. 35A256. Model TR6. 6 V. DC Power Supply.....**\$12.95**

No. 35A255. Model TR12. 12 V. DC Power Supply.....**\$12.95**

**AMECO NUVISTOR HIGH GAIN  
VHF CONVERTERS-PREAMPLIFIERS**



- For very best performance on any one band—50, 144, 220 MC.
- Never obsolete when changing receivers.

**DELUXE CN SERIES CONVERTERS**

Very high gain and extremely low noise figures are made possible by use of 3 Nuvistors in 2 RF amplifier stages and mixer.

**Performance:** Noise figure 50 MC 2.5 db, 144 MC 3 db., 220 MC 4 db. Gain 50 db average. Image and spurious rejection better than 70 db. IF rejection better than 100 db.

**Tube line up:** 3 RCA 6CW4 Nuvistors, plus 6J6 oscillator. Power required 100-150 V. at 30 MA, 6.3 V. at 1 A.

Compactly assembled on 2-piece copper finished chassis, 2x2 1/2 x 6 3/4". Has auto style pin plug coax input and output, octal power plug, adjustable gain control. Supplied with converter crystal for IF range shown. Converter output IF is easily adjusted to another range by simply retuning and changing crystal. With tubes, instructions, completely wired.

35A451. Model CN-50W. 50 MC Band, 28-32 MC IF Range. **\$44.95**

Net Each.....

35A452. Model CN-144W. 144MC Band, 28-32 MC IF Range. Net Ea.....**\$44.95**

35A453. Model CN-220W. 220 MC Band, 14-18 MC IF Range. Net Ea.....**\$44.95**

**DELUXE PV SERIES PREAMPLIFIERS**

When used ahead of your present converter or receiver, will greatly improve sensitivity, gain and noise.

**Performance:** Noise figure 2.5 db at 50 MC, 3.0 db at 144 MC, and 4.0 db at 220 MC. Over 20 db gain. Has 2 tuned circuits, improves image and spurious rejection. 6CW4 Nuvistor is completely neutralized. Requires 100-150 V. at 8 MA, 6.3 V. at .13 A. On chassis like CN above, slightly smaller. Completely wired, with instructions.

No. 35A454. Model PV-50W. 50 MC. Net Each.....**\$13.95**

No. 35A455. Model PV-144W. 144 MC. Net Each.....**\$13.95**

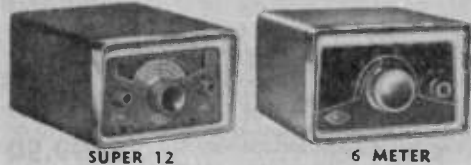
No. 35A456. Model PV-220W. 220 MC. Net Each.....**\$13.95**

**POWER SUPPLY FOR CN AND PV**

Delivers up to 50 MA at 125 V. DC, 2 A. at 6.3 V. AC. Plugs directly into CN or PV units without interconnecting cable. 117 V. 60 cy. AC.

No. 35A457. Model PS-1W. Wired. Net Each.....**\$11.50**

**GONSET  
MOBILE  
CONVERTERS  
FOR  
AMATEUR  
BANDS**



**GONSET "SUPER 12" MOBILE CONVERTER.** Covers all amateur bands, 10 through 75 meters, plus 19 and 49 meter shortwave broadcast bands. For 12 V. DC operation only. New low voltage tubes require no B+ high voltage supply. Converter output 1430 KC. In newly styled gun metal gray cabinet with chrome front trim. Size 4"x6"x8" deep. Wt. 6 lbs.

No. 35A485. Model 3261. Net Each.....**\$74.50**

**NEW GONSET 6 METER CONVERTER.** Covers 49-54 MC when used with 12 V. auto radio. With clipper to suppress ignition noise.

No. 35A35. Model 3275. Wt. 6 lbs. Net Each.....**\$74.50**

**SAVE \$\$\$ WHILE YOU LEARN!**

**EICO MODEL 723  
60-WATT CW  
TRANSMITTER KIT**



**\$49<sup>95</sup>** \$79.95  
WIRED  
COMPLETE KIT

**BAND SWITCHING—80, 40, 20, 15 AND 10 METERS**

Not the usual Novice "beginners rig" but one any ham would be proud to own and operate. Non-compromising engineering and high quality components throughout. Runs 60 watts input to a 6DQ6B final amplifier with pi-network tuning. Has 6CL6 crystal oscillator, break-in oscillator keying and provision for later addition of external VFO. Has internal 500 V. power supply and metered tuning. All circuits TVI suppressed and filtered. Tight fitting cabinet with die-cast panel is both attractive and an excellent RF shield. Size 6x8 1/2 x 11 1/4" deep. Power requirements 117 V. 60 cy. AC. 140 watts. Beginner-tested wiring instructions included. Less crystal. Wt. 15 lbs.

No. 35A458. Model 723 Kit. **\$49.95**

No. 35A459. Model 723 Factory Wired. Net Each.....**\$79.95**

**OTHER POPULAR EICO KITS**



720 90 W. TRANSMITTER



722 VFO

**90 WATT CW TRANSMITTER MODEL 720.** Rated "Top-Quality" by Electronics Kits Guide. Bandswitching, 80, 40, 20, 15 and 10 meters. 6146 final amplifier, 6CL6 Colpitts crystal oscillator, 6AQ5 clamper, 6AQ5 buffer-multiplier, GZ34 rectifier. "Novice limit" calibration on meter. Fully TVI suppressed, excellently engineered. Attractive design. Size 15x9 1/2 x 5" H. 115 V. 60 cy AC. Wt. 29 lbs. **\$79.95**

No. 35A76. Model 720K Kit, less crystal. Net Each.....

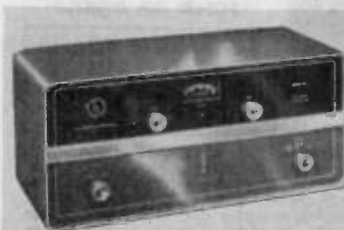
No. 35A75. Model 720W Factory Wired, less crystal. Net Ea.....**\$119.95**

**NEW EICO 722 VFO KIT**

Perfect companion to either the 60 watt transmitter or 90 watt transmitter above—fine for any other. Output frequencies 3.5-4.0 MC, 7.0-7.3 MC, 7.25-7.64 MC. Calibrated bands 80, 40, 20, 15 and 10 meters. Uses 6AU6 osc., 6CB6 buffer multiplier, OA2 regulator. RF output 10-20 volts. Self-contained transformer power supply for 115 V. 60 cy. AC. Cabinet 6x8 1/2 x 9". Wt. 8 lbs. **\$44.95**

No. 35A460. Model 722 Kit. Net Each.....

No. 35A461. Model 722 Factory Wired. Net Each.....**\$59.95**



**hallicrafters  
TRANSVERTERS**

**FOR SSB-AM-CW-RTTY  
ON 2 AND 6 METERS**

**CONVERTS 10 METER STATION  
TO VHF**

**Brand new approach to VHF operation.** Works with any existing 10 meter receiver and 10 meter transmitter extending their coverage with great simplicity, yet retaining all present modes of transmission and reception. Converts 10 meter transmitter output of 10 to 100 watts capability to 120 watts PEP on VHF. Output tube is type 5894. Receiving converter has excellent sensitivity and noise figure due to nuvistor front end. Supplied completely wired with 7 tubes and built-in coaxial antenna relay. Power required, 750 V. @ 160 MA, 250 V. @ 70 MA, minus 60 V. @ 10 MA. Cabinet is steel, gray finished with silver trim. Size 8x17x8 7/8" deep.

No. 35A448. Model HA-2. For 2 Meters.

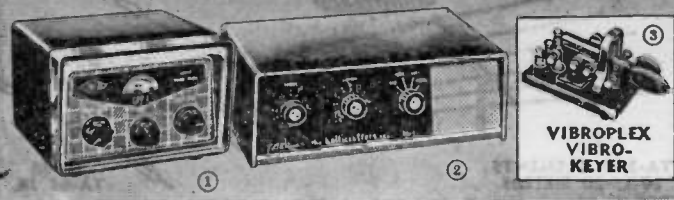
No. 35A449. Model HA-6. For 6 Meters.

Choice Net Each.....**\$349.50**

**115 V. AC POWER SUPPLY FOR HA-2 & HA-6**

No. 35A450. Model P-26 Completely Assembled. Net Each.....**\$99.50**

**LATEST OPERATING AIDS**  
FOR USE WITH ANY TRANSMITTER OR RECEIVER



**① GONSET HYBRID PHONE PATCH**  
Advanced design with exclusive VU meter for monitoring phone line levels. By switching, meter also indicates accurate and complete null so receiver output cannot trip transmitter VOX circuits. In use, operation is automatic. Has separate transmitter and receiver gain controls and Off-On-Null switch. Line impedance 600 ohms; receiver impedance 3.2 to 8 ohms from speaker output; transmitter, high impedance to mike input. Beautiful chrome and grey case. 4x6 1/2 x 7 1/8". Wt. 5 lbs.  
No. 35A62. Model 3273. Net Each..... **\$44.50**

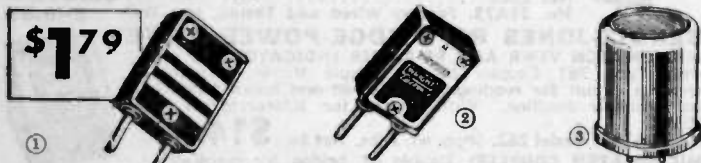
**② HALLCRAFTERS HA-4 AUTOMATIC KEYSER**  
All transistorized version of the famous "TO" automatic keyer (no relays). Produces perfect CW. Dots and dashes self-completing. Dual speed range 8-18 WPM and 18-50 WPM. Has monitor speaker, full adjustment for automatic, semi-automatic, hold, volume, dot "weight", 10 diodes, 8 transistors including high voltage type to key transmitter. 7 1/2 x 2 3/8 H. x 5 3/4" deep. 5 lbs. Requires SPDT key paddle (like Vibro-Keyer below).  
No. 35A462. Net Each..... **\$59.95**

**③ VIBROPLEX "VIBRO-KEYER"**  
Perfect companion for the "HA-4" keyer. Smooth operating, fully adjustable, beautifully constructed. Switching action is S.P.D.T. Base size 3 1/2" x 4 1/2". Weight 2 3/4 lbs.  
No. 33A148. Net Each..... **\$17.95**

**CITIZENS BAND CRYSTALS**

For Class "D" Citizens Band Transceivers. Wright manufactured to meet FCC required .005% frequency tolerance. Hermetically sealed. Pin size .05". 1/2" spacing. Order by channel and frequency stating make and model of equipment. Single Crystal, specify Receiving or Transmitting.  
Net Each..... **\$2.95**  
Per Pair for 1 channel..... **\$5.90**

**AMATEUR AND COMMERCIAL CRYSTALS**



**① HUNDLEY CRYSTALS FOR AMATEUR BANDS**  
Dependable active crystals, fully guaranteed. Mounted in FT243 type holders, pin spacing .486". 7000 to 7300 and 8000 to 8222 within 5 KC.  
No. 17A1000-H. Net Each..... **\$1.79**

**② WRIGHT ELECTRONICS CRYSTALS**  
Precision made, guaranteed by Wright and B-A to be dependable active oscillators accurately calibrated within tolerances specified at standard load capacity of 24 mmdf. No finer crystals available anywhere!  
GW-43 pressure type holder, better, more compact than old FT-243, has .486" spaced, .093" dia. pins.

**EXACT FREQUENCY AMATEUR BAND CRYSTALS.** Tolerance .01%. Fundamental oscillators. Available 3500 to 8500 KC. Allow 1 to 2 weeks.  
No. 50A68. In GW43 Holder. Net Each..... **\$2.95**

**AMATEUR CRYSTALS ± 5 KC.** Fundamental oscillators within 5 KC of your specified frequency. Calibrated ± 500 cycles. Available 3500 to 4000 KC and 7000 to 7425 KC.  
No. 17A1014. In GW43 Holder. Net Each..... **\$2.45**

**1600 TO 12000 KC ± .005%.** Fundamental oscillators on official MARS, CAP and CAA Civilian Aircraft frequencies. Also for experimental purposes, converters, etc. Allow 1 to 2 weeks.  
No. 50A69. In GW43 Holder. Net Each..... **\$3.45**

**12001 to 25000 KC ± .005%.** 3rd mode oscillators. Allow 1 to 2 weeks.  
No. 50A70. In GW43 Holder. Net Each..... **\$4.45**

**③ PETERSEN Z-6A FREQUENCY STANDARD**  
No. 17B1005. 100 KC. Plugs into octal socket. Net Each..... **\$6.95**

**CRYSTAL HOLDER SOCKETS**



**CINCH BAKELITE SOCKETS**  
With silver plated contacts. Type 2KM mica-filled; 2K1B, Black.  
① No. 17B1007. .486 spacing for pin size .093". Type 2KM. Each..... **25c**  
② No. 17B1011. 1/2" spacing for pin size .125". Type 2K1B. Each..... **30c**

**③ MILLEN CERAMIC CRYSTAL SOCKETS**  
No. 12B299. 1/2" spacing for pin size .05. Mfg. No. 33302. Each..... **24c**  
No. 17A729. 3/4" spacing for pin size .125. Mfg. No. 33002. Each..... **36c**  
No. 17A730. .487 spacing for pin size .095. Mfg. No. 33102. Each..... **36c**

**④ MOSLEY CRYSTAL HOLDER ADAPTERS**  
No. 17A728. Adapts 1/2" holder to socket with 3/4" spacing..... **36c**  
No. 17A738. Adapts 3/4" holder to socket with 1/2" spacing..... **36c**

**⑤ PLUGS FOR CRYSTAL SOCKETS**  
Fine for connecting VFO in place of crystal. Solder terminals.  
No. 17B993. 1/2"—.093 pin. Fits 17B730 and 17B1007. Each..... **25c**

**IMPROVED 24-HOUR STATION CLOCKS**



**10-INCH WALL OR PANEL MOUNTING CLOCK**  
Beautifully lithographed 10-inch dial shows minutes, seconds and 2400 hours. Adjustable inner dial shows time in all zones directly. Key cities shown. Highly dependable, well constructed. Gray aluminum case presents a distinctive appearance. Wt. 7 lbs.  
No. 37A263. Net Each..... **\$14.85**

**24 HOUR NUMERCHRON 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". Wt. 4 lbs.  
No. 37B261. Net Each..... **\$14.85**

**JOHNSON "T-R" SWITCH**  
ELECTRONIC TRANSMIT-RECEIVE ANTENNA CHANGEOVER RELAY

For Low or High Power... Up to 4000 Watts Peak RF. Eliminates need of conventional antenna relays on 80 through 10 meter bands. Changeover is automatic and instantaneous. Ideal for break-in CV, AM phone and voice operated SSB. Shows gain of 6 to 0 db, on reception with virtually immeasurable transmitting power loss. Uses exclusive new double-gated circuitry with a 6BL7 dual triode for improved receiver isolation and modern printed circuit wiring with transformer isolated power supply. Grey finished steel cabinet, 4 7/8 x 4 3/8 x 5 1/8" deep. Powered from 115 V. 60 cy. AC. Shpg. wt. 5 lbs.  
No. 29B170. Model 250-39. Net Each..... **\$27.75**

**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, except Drake TV-100-LP. Factory adjusted for maximum attenuation except Bud LF-601 which permits individual peaking on any two channels.

① 29A135. Barker-Williamson Model 425. For 52 Ohm Coax. Ea... **\$17.10**  
② 29A136. Barker-Williamson Model 426. For 72 Ohm Coax. Ea... **\$17.10**  
③ 29A116. Bud Model LF-601. Adjustable, 52 or 72 Ohm Coax. Ea. **\$16.91**  
④ 29A125. Johnson Model 250-20. For 52 Ohm Coax. Each..... **\$14.95**  
⑤ NEW DRAKE 52 OHM FILTERS. Cut off between 6 meters and channel 2. Designed with particular attention to 10 meter and 6 meter operation.  
No. 29B166. Model TV-100-LP. 1000 Watts except 6 meters, 200 watts. Each..... **\$16.95**  
No. 29B167. Model TV-100-LP. 100 Watts except 6 meters, 20 watts. Each..... **\$5.83**

**B & W MINIDUCTORS**

"Air-Wound" construction for very efficient operation as tank coils, RF chokes, etc. Easily cut to required length. 1/2" and 5/8" dia. coils are 2" long; 3/4" and 1" are 3" long; 1 1/4" and 1 3/4" are 4" long.

Stock No.	Mfg. No.	Turns	Coil Dia.	Price	Stock No.	Mfg. No.	Turns	Coil Dia.	Price
17A1076	3001	4	1/2"	\$.45	17A1088	3013	4	1"	\$.69
17A1077	3002	8	1/2"	\$.45	17A1089	3014	8	1"	\$.69
17A1078	3003	16	1/2"	\$.45	17A1090	3015	16	1"	\$.69
17A1079	3004	32	1/2"	\$.45	17A1091	3016	32	1"	\$.69
17A1080	3005	4	3/8"	\$.54	17B1117	3017	4	1 1/2"	\$.75
17A1081	3006	8	3/8"	\$.54	17B1118	3018	8	1 1/2"	\$.75
17A1082	3007	16	3/8"	\$.54	17B1119	3019	16	1 1/2"	\$.75
17A1083	3008	32	3/8"	\$.54	17B1120	3020	32	1 1/2"	\$.75
17A1084	3009	4	3/4"	\$.63	17B1121	3021	4	1 3/4"	\$.90
17A1085	3010	8	3/4"	\$.63	17B1122	3022	8	1 3/4"	\$.90
17A1086	3011	16	3/4"	\$.63	17B1123	3023	16	1 3/4"	\$.90
17A1087	3012	32	3/4"	\$.63	17B1124	3024	32	1 3/4"	\$.90

**B & W STANDARD INDUCTORS**

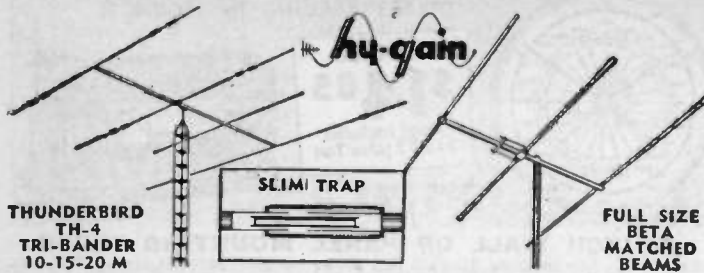
29A48 3900 8 2" Length 10" #14 Tinned Wire. Each.. **\$1.88**  
29A49 3905-1 6 2 1/2" Length 10" #12 Tinned Wire. Each.. **1.95**  
29A50 3906-1 8 2 1/2" Length 10" #14 Tinned Wire. Each.. **1.86**  
29A51 3907-1 10 2" Length 10" #16 Tinned Wire. Each.. **1.86**

**B & W PI-NETWORK INDUCTORS**  
Bandswitching 80-40-20-15 and 10 meters; single or parallel tubes. Ratings: 890A and 852 1 KW (4000 V. CW/SSB, 3000 V. AM); 851 rated 500 W. CW/SSB at 2000 V, 250 W. AM at 1250 V.  
Model 850A. Size 8 x 6 x 4". Wt. 3 lbs. **\$35.00**  
No. 29A133. Net Each.....  
Model 851. Size 7 x 3 x 3 1/2" high. Wt. 3 lbs. **\$16.50**  
No. 29A149. Net Each.....  
Model 852. Size 8 x 6 x 4". Wt. 3 lbs. **\$39.50**  
No. 29B172. Net Each.....



# Ham Antennas & Accessories

## AMATEUR BAND ROTARY BEAMS



**THUNDERBIRD TH-4 TRI-BANDER 10-15-20 M**

**SLIM TRAP**

**FULL SIZE BETA MATCHED BEAMS**

### HY GAIN "THUNDERBIRD" TRAP TRI-BANDERS

Automatic three-band operation on 10, 15 and 20 meters. Proven "Beta" broadband, pre-tuned match system gives low SWR; requires only one 52 ohm coax feed line. New 1 1/2" dia. slim "solid state" traps molded of completely weatherproof polypropylene plastic take full 2 KW PEP or 1 KW AM fully modulated. Inter-locked 4th element is active on 10 meters. Elements are aluminum alloy 1 1/4" O.D. telescoping to 3/4" O.D.; boom 2" O.D. aluminum alloy. Has new formed steel ribbed boom-to-mast clamp and plastic end caps on boom and elements. Longest element: TH-4, 32 ft.; TH-3, 26 ft.

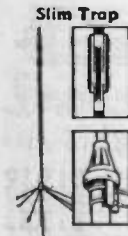
Stk. No.	Model	Elements	Gain	Boom Length	Shpg. Wt.	Net Each
9A165	TH-4	4	Up to 8.9 db.	192"	42 lbs.	\$117.50
9A166	TH-3	3	Up to 8 db.	168"	36 lbs.	89.95

### FULL SIZE SINGLE BAND BEAMS

New heavy duty construction, using heat-treated high strength aluminum alloy tubing for elements and boom. Proven Beta broad-band match for 52 ohm coax feed gives low SWR, completely unaffected by weather. (2 M types may also be with open line.) All rated 1 KW RF power; F/B ratio 25 db or higher. With weatherproofed hardware, less mast.

Stk. No.	Model	Description	Gain	Size Element	Size Boom	Weight	Net Ea.
9A108	25	2 M., 5 El.	9 db.	41 3/4" x 1/4" Rod	64" x 1 1/2"	3 lbs.	\$ 8.95
9A110	210	2 M., 10 El.	13.4 db.	41 3/4" x 1/4" Rod	144" x 1 1/2"	6 lbs.	14.95
9A111	65B	6 M., 5 El.	9 db.	11 1/2" x 1/4"	108" x 1 1/2"	8 lbs.	18.95
9A138	68B	6 M., 8 El.	12.1 db.	11 1/2" x 1/4"	216" x 1 1/2"	13 lbs.	32.95
9A113	103B	10 M., 3 El.	8 db.	17" x 1/4"	96" x 2"	9 lbs.	32.95
9A114	153B	15 M., 3 El.	8 db.	23" x 1/4"	12" x 2"	16 lbs.	38.50
9A115	203B	20 M., 3 El.	8 db.	35" x 1/4"	16" x 2"	29 lbs.	65.95

### HY GAIN MULTI-BAND TRAP VERTICALS



Automatic band selection accomplished through use of parallel resonant "Slim-Traps" which isolate the various antenna sections on all bands for which the antenna is designed. Base fittings are heavy duty weatherproofed steel with nylon insulator and 52 ohm coax receptacle. Element is high strength aluminum. Tubing size 1 1/4" to 3/4".

Stk. No.	Model	Bands	Ht.	Wt.	Net Each
9A124	12AVS	10, 15 & 20 M.	13 1/2 ft.	9 lbs.	\$21.95
9A126	14AVS	10, 15, 20 & 40 M.	21 ft.	10 lbs.	\$27.95

**MOUNTING KITS.** Include radials for the antenna, 5 ft. 1 1/2" O.D. steel mast section, roof mount and hardware. Type 12-RMK Mtg. Kit for 12AVS Ant. 7 lbs.

No. 9A125. Each.....\$9.50  
Type 14-RMK Mtg. Kit for 14AVS Ant. 9 lbs.  
No. 9A127. Each.....\$11.95

### HY GAIN DOUBLET INSULATORS

#### HEAVY DUTY MOLDED "CYCOLAC"

**BEST FOR 40 & 80 METER COAX FED WIRE ANTS.**



No. 9A173 Cl. Center Insulator. Fits all sizes coax. 8 oz. Net Ea. ....\$3.95  
No. 9A174 El. End insulator. Has aluminum bushings. 3 oz. Net Ea. ....\$1.00

### ILLUMITRONICS AIR DUX BALUN



#B2009 coils are used in pairs for 75 ohm unbalanced to 300 ohms balanced or 75 unbalanced to 75 ohms balanced antenna lines, 10 through 80 meters. May be used on receivers or with transmitters having power output up to 200 watts. Comes with diagram, instructions, mounting insulators and hardware.

No. 17A1217. 2 Required. Wt. 1 lb. Each.....\$3.29  
No. 17A1218. MB2009 Complete mounting plate for above coils (less coax connector). Each.....\$1.01

### HIGH-POWERED C-D-R HAM ROTATOR

**\$117.11**

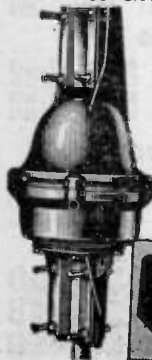
- Heavy Duty Brake Built-In
- Mast, Tower or Platform Mounting

\$11.11 Down  
**METER TYPE INDICATOR**

Handles Full Size Amateur Antennas

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 365° at 1 RPM. Lower portion of unit contains the automatic solenoid operated brake capable of withstanding 3600 inch pounds torque.

**Meter Type Direction Indicator** is continuous indicating type. Gives accurate headings. Requires 8 wire cable (2 #18, 2 #22, Belden type 8448). Shpg. wt. 20 lbs.  
No. 4A198. Model HAM-M. Net Each.....\$117.11



## MOSLEY TRAP ROTARY BEAMS



**TA-36 6-ELEMENTS 10-15-20 METERS**

**TA-33 TA-33 JR.**

### WIDE SPACED 6 ELEMENT TA-36

Employs 4 operating elements on 10 meters, 3 on 15 and 3 on 20, automatically bandswitched. Built for full KW power. Gain on 10 meters 9 db, 15 meters 8.5 db, 20 meters 8 db. Front-to-back ratio is 20 db or better on all 3 bands. SWR on 52 ohms coax feed line is 1.5/1 or better at resonance. Max. element length 29'. Boom, 24"x2" O.D. Turning radius 19'3". Constructed entirely of aluminum, all parts finished for perfect fit and appearance. U-bolts are heavy duty stainless steel. Assembled wt. 69 lbs.

No. 9A9. Net Each.....\$129.50

### WORLD FAMOUS 3-ELEMENT TA-33

Used the world over for fine three band performance on 10, 15 and 20 meters with up to full KW transmitter power. Forward gain up to 8 db with 25 db or better front-to-back ratio. SWR 1.1/1 or less at resonance. Finest all-aluminum construction. Element length 28'. Boom, 14". Turning radius 15 1/2". Assembled weight 45 lbs.

No. 9A5. Net Each.....\$99.75

### TA-33 JR. FOR 300 WATTS OR LESS

Conserves space yet provides fine performance on 10, 15 and 20 meters. Forward gain and front-to-back ratio almost as good as for TA-33. SWR usually less than 1.5 to 1 at resonance. All aluminum. Elements 26'8" max. Boom 1 1/4"x2". Turning radius 14'9". Assembled wt. 20 lbs.

No. 9A6. Net Each.....\$69.50

### EICO GRID DIP METER MODEL 710 WIRED OR KIT



Compact, versatile and rugged. Easy to hold and thumb-tune with one hand. Covers 400 KC to 250 MC in 7 over-lapping 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 V AC transformer power supply. 2 1/4"x2 3/8"x6 7/8". Wt. 3 lbs.

No. 35A74. Kit, with Tubes and Instructions. \$29.95  
Net Each.....\$49.95  
No. 35A73. Factory Wired and Tested. Net Each.....\$49.95

### BENDIX-JONES RF BRIDGE-POWER METER

**MICROMATCH VSWR and RF POWER INDICATOR.** For use with Type 261 Coupler below. Simple throw of switch changes circuit for readings of reflected and forward power on antenna feedline. With charts for interpretation in VSWR.

No. 29A144. Model 262. Shpg. wt. 2 lbs. Net Ea. ....\$14.50

### MICROMATCH COUPLER.

Double RF bridge for measuring both forward and reflected power in the range of 0.5 to 225 MC at power levels up to 1 KW on 52 ohm coax line. Has SO-239 connectors at each end. Very low insertion loss, can be left in feed line at all times. With instructions for building indicator similar to Model 262 above.

No. 29A143. Model 261. Shpg. wt. 1 lb. Net Ea. ....\$22.50

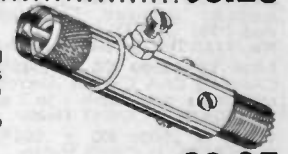
### B&W COAX SWITCH



Model 550A. For switching up to five antennas or other equipment lines to transmitter or receiver with a simple turn of a knob. Will handle up to 1 KW. Cross talk is -45 db at 30 MC. Equipped with 6 standard coax connectors for either 52 or 75 ohms. Housed in 2 3/4" diameter aluminum case, with single hole mounting. Wt. 1 lb.

No. 29A137. Model 550A. Net Each.....\$8.25

### "BLITZ BUG" COAXIAL 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.

Threaded for standard PL259 and SO239 fittings.

No. 19A145. Cush Craft LAC-1. Net Each.....\$3.95

### SPRAGUE "HYPASS" FILTERS

#### TWO-TERMINAL SERIES FEED THRU—CASE GROUNDED



For suppressing TVI radiation from power circuits of transmitters, diathermy, industrial apparatus, etc. Provides extremely low inductance VHF bypass to ground with practically zero series resistance to AC or DC current flow. Also popular for quieting ignition, generator and regulator noises in mobile radio installations and for by-passing AC input to critical receiving equipment. Type 80P3 has flanged bulkhead mtg., illustrated at far left. All others, bracket mtg. Average wt. 2 oz.

Stk. No.	Type	Mfd.	Amps.	Voltage	Dia.	Length	Each
15B988	48P18	.5	40	50 V. DC	1 1/8"	1 1/8"	\$2.23
14B256	48P9	.1	20	250 V. AC	1 1/8"	1 1/8"	1.53
15B987	80P3	.1	20	600 V. DC	1 1/8"	1 1/8"	1.73

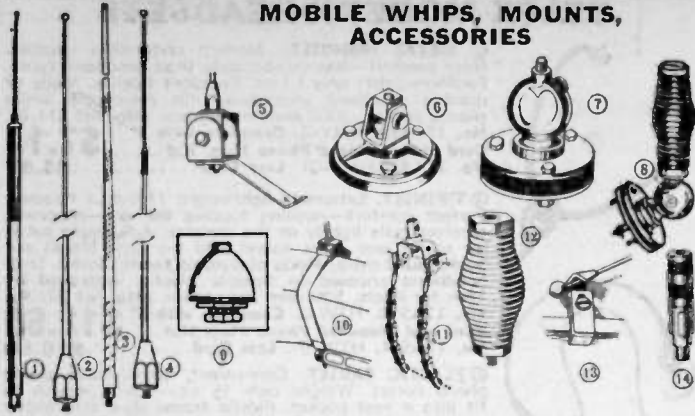
### MOBILE GENERATOR NOISE FILTER—TUNED TYPE



For Amateur, Citizens and Commercial 2-Way Radio.  
No. 9A33. Range 3-30 MC. Net Each.....\$2.95  
No. 9A34. Range 30-60 MC. Net Each.....\$2.95

# Antennas for Amateur & Citizens Radio

## MOBILE WHIPS, MOUNTS, ACCESSORIES



### 1 WEBSTER "BAND SPANNER" FOR FINEST ALL BAND MOBILE OPERATION

Covers amateur 75-40-20-15-10 meter bands (also MARS and CB frequencies) with no external taps, no plug-in coils. High "Q" center loaded coil section is epoxy sealed. Top whip slides in and out for frequency adjustment, can be pushed down into column for clearance. Column is fibre glass. Beautifully finished. Brass fittings are heavy chrome plated, whip is stainless steel. Has 3/8"-24 threaded stud for heavy duty body or bumper mounts.

- Nb. 9A82. Regular Bandsprinter, 117" Overall. Net Each. **\$24.75**  
 Nb. 9A83. Sport Bandsprinter, 93" Overall. Net Each. **\$24.75**

### AMATEUR AND COMMERCIAL WHIPS WITH 3/8"-24 STUD

Heliwhips are tough fibre glass rod with taper wound spiral wrapped antenna running full length, weatherproof plastic covered. Matches 52 ohm line, has unusually high radiation efficiency and inherent broadbanding.

- Stainless Steel Whips are deluxe taper ground, cuttable to exact freq.
- 9A101. 60" Stainless Steel, cuttable 48 MC or higher. Each. **\$3.15**
  - 9A47. 72" Stainless Steel, cuttable 40 MC or higher. Each. **\$3.63**
  - 9A48. 96" Stainless Steel, cuttable 29 MC or higher. Each. **\$4.23**
  - FA128. 48" Heliwhip, 10 Meter Amateur Band. Each. **\$9.95**
  - 9A129. 48" Heliwhip, 15 Meter Amateur Band. Each. **\$9.95**
  - 9A130. 72" Heliwhip, 20 Meter Amateur Band. Each. **\$10.85**
  - 9A131. 72" Heliwhip, 40 Meter Amateur Band. Each. **\$10.95**
  - 9A132. 72" Heliwhip, 75-80 Meter Amateur Band. Each. **\$10.95**

### 11 METER CITIZENS RADIO WHIPS

For very best possible performance use the 102" full length stainless steel whip. Height usually requires bumper mounting in order to clear overhead obstructions. For lower height fender or body mounting use either the new high efficiency "top-loaded" Hy Gain TLW (very neat, coil section only 1/4" diameter) or the more rugged fibreglass Heliwhip. Heliwhip description above.

- 9A49. 102" Deluxe Stainless Steel, taper ground, cuttable. Each. **\$4.35**
- 9A95. 50" Top Loaded Stainless Steel, Hy Gain TLW. Each. **\$5.37**
- 9A121. 48" Heliwhip, Fibreglass. Mark Mobile HW-11. Each. **\$9.95**

### ALL-ANGLE SWIVEL AND BALL BODY MOUNTS FOR 3/8"-24 WHIPS

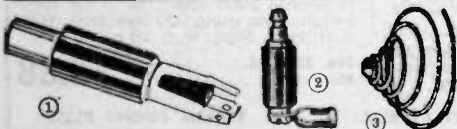
Dependable, insulated mounts of newest design and finest materials. Use Fig. ① Jiffy Mount, for rear deck. Bracket fits under deck lid without damage to auto. Very easy to install and remove and will support short loaded whips perfectly. Fig. ② Swivel Mount has tough cycloc insulator, trim neat appearance. Fig. ③ Deluxe Mount is rugged heavy duty type beautifully chrome plated. Has socket head set screw locking feature, 3/8" thick phenolic base, and coaxial connector.

- 9A38. Jiffy Mount. Fits under deck lid. Hy Gain JM. Net Each. **\$2.70**
- 9A37. Swivel Body Mount. Cad. Plated. Hy Gain BDYS. Net Each. **\$3.03**
- 9A44. Deluxe Chrome Ball Mount. Coax. Conn. Tenna MB9. Net Each. **\$5.32**
- 9A39. Standard Ball Mount with spring. Tenna MB2. Net Each. **\$4.25**
- 9A133. Fibreglass Single Hole Mount. Coax. Conn. Mark Mobile HWM-1. Net Each. **\$7.50**

### BUMPER MOUNTS, SPRINGS, ACCESSORIES

For fast, simple installation without drilling holes. Fig. ① double chain type is extra heavy duty for long whips or heavier amateur antennas. Fig. ② springs have flat ground ends, close fitting end caps. Fig. ③ is handy 2-piece bayonet connector allowing rapid removal of whip.

- 9A64. Stainless Steel Strap Bumper Mount. Hy Gain BPR. Net Ea. **\$6.57**
- 9A161. Double Chain Bumper Mount. Ant. Spec. ASP-143. Net Ea. **\$7.95**
- 9A36. Standard Spring. Cad. plated. Hy Gain SPGS. Net Each. **\$2.04**
- 9A46. Deluxe Chrome Spring. Hy Gain SPG. Net Each. **\$4.77**
- 9A35. Gutter Clip for whip hold down. Hy Gain GC. Net Each. **\$1.17**
- 9A40. Quick Whip Disconnecter. Ant. Spec. M54. Net Each. **\$2.95**

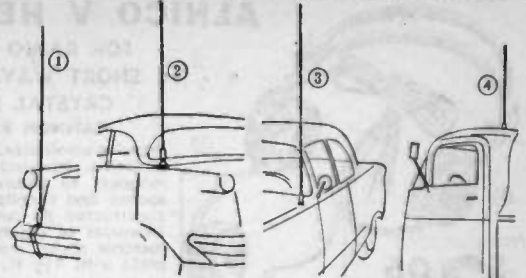


### SPARK PLUG AND WHEEL STATIC SUPPRESSORS

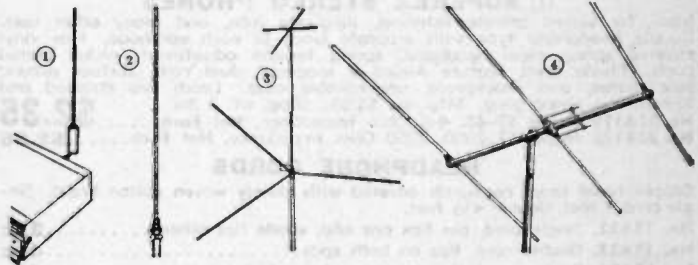
- ① MASTER DISTRIBUTOR SUPPRESSOR. Sure cure for most all ignition noises. For use separately, or in severe cases, with individual suppressors. No. 19B203. Mfg. List 55c. Net Each. **33c** 10 Lots, Each. **29c**
- ② HIGH EFFICIENCY SPARK PLUG SUPPRESSOR. Top quality carbon resistor type. Snaps on to plug. Works on all cars. No. 19A208. Each. **21c** 10 Lots, Each. **19c**
- ③ WHEEL STATIC ELIMINATORS. Button makes noise free contact. No. 19A197. One required for each front wheel. Net Each. **9c**

## COMPLETE CITIZENS MOBILE ANTENNA OUTFITS

COAX CABLE AND WHIP HOLD-DOWN INCLUDED WITH TYPES ① AND ③



- ① 102" WHIP WITH BUMPER MOUNT. Includes Fig. ② Antenna, Fig. ③ Mount, Fig. ④ Clip and 15 ft. of RG58U Coax. No. 9A177. Complete, Net Each. **\$12.09**
- ② 102" WHIP WITH SWIVEL BODY MOUNT AND SPRING. Fig. ③ Ant., Fig. ④ Mount, Fig. ⑤ Standard Spring, Fig. ⑥ Clip and 15 ft. of RG58U Coax. No. 9A176. Complete, Net Each. **\$10.59**
- ③ COWL MOUNTED DISGUISE ANTENNA. High efficiency top loaded whip telescopes from 50" to 28". Coil section only 1/4" diameter. Insulated ball mount replaces standard auto ant. No holes. For RG58U lead. No. 9A57. Hy-Gain TLWT-M. Net Each. **\$7.17**
- ④ CAB OR CARTOP ANTENNA. Extra flexible tapered stainless steel whip with base loading coil and single hole commercial communications style mounting. Overall H.50". Solderless connector for RG58U lead. No. 9A60. Hy Gain CMR. Net Each. **\$8.97**



- ① CLOSE RANGE WHIP. Designed for mounting directly on most transceivers. Chrome plated 45" whip telescopes to 17". Base loading coil completely enclosed in plastic. Has PL259 coaxial connector for either top or back of set. No. 9A146. Hy Gain Model CW. Mfg. list \$9.95. Net Each. **\$5.97**
- ② COAXIAL VERTICAL. Requires no radial side elements. Designed for inconspicuous roof top or side mounting. Transmits and receives with equal high efficiency in all directions. Top 1/4 wavelength element is 5/8" O.D. heavy wall aluminum tubing, lower 1/4 wavelength coaxial sleeve is 2" O.D. aluminum. Mounts on 1 1/4" O.D. tubing or 1" plumbers pipe (not supplied). No threading necessary. Shpg. wt. 7 1/2 lbs. Less coax cable and mast. Mfg. list \$33.25. No. 9A73. Hy Gain Model CXL. Net Each. **\$19.95**
- ③ STANDARD GROUND PLANE. Delivers full signal in all directions at lowest possible cost. Has horizontal groundplane elements and vertical elements (without "top-hat" loading). 5/8" O.D. heavy wall aluminum tubing throughout. Unbreakable cycloc insulators and weather-treated hardware. Mounts on all masts up to 1 5/8" O.D. Less coax cable and mast. Shpg. wt. 5 lbs. No. 9A168. Hy Gain Model SGP. Mfg. list \$26.95. Net Each. **\$16.17**
- ④ POWERFUL "COLINEAR GAIN" GROUND PLANE. Actually doubles power in all directions. Has longer 18' 3/4 wavelength top radiator with "top-hat" loading and longer 9' horizontal radials. Gives measured 3.4 db gain. Radiator is 1 1/4 to 3/4" O.D. and radials 3/8" O.D., heavy wall heat-treated aluminum. Mounts with heavy cycloc insulator on masts to 1 5/8" O.D. Less coax cable and mast. Wt. 10 lbs. Mfg. list \$49.95. No. 9A74. Hy Gain Model CLR. Net Each. **\$29.97**
- ⑤ BEAM ANTENNA. For longest possible range. Forward gain of 9 db makes 5 watt signal equal to 40 watts. Mounts either horizontal or vertical. Three elements, factory pre-adjusted and matched for 52 ohm feed. Heavy duty aluminum elements, steel boom. Less coax, mast and rotor (use TV rotor). Wt. 15 lbs. No. 9A150. Hy Gain Model 113-B. Mfg. list \$52.50. Net Each. **\$31.50**

- COAX CABLE KIT FOR GROUND PLANES AND BEAM  
 50 Ft. RG58U with PL259 connectors on both ends. No. 9A85. Hy-Gain CC-50. Net Each. **\$9.45**

### 150 MC MOBILE ANTENNAS FOR COMMERCIAL-INDUSTRIAL 2-WAY RADIO

- ① Unity Gain—1/4 Wave Stainless steel. High impact cycloc Base mounts from top of roof. Solderless connector for RG58U cable. Whip is replaceable. No. 9A69. HyGain Model MW-150. Net Each. **\$2.82**
- ② 3.4 DB Gain—3/8 Wave. Doubles effective power. Very flexible stainless steel whip with hermetically sealed matching coil, 52" high. Single hole mount like above. No. 9A70. Hy-Gain Model MWG-150. Net Each. **\$8.97**

### AUTO RADIO NOISE ELIMINATOR KITS

- In handy Kits, the needed suppressors, condensers, etc., for a complete installation. Easy to install by anyone.
- 19A171. For 8 Cyl. Cars. Per Kit. **\$2.44**
  - 19A172. For 6 Cyl. Cars. Per Kit. **\$2.12**



# Headphones and Hearing Aids



## ALNICO V HEADSET

FOR RADIO AMATEURS,  
SHORT WAVE LISTENING  
CRYSTAL SETS, ETC.  
CANNON BALL No. 15

Popular small size, light weight, extra sensitive. Powered by Alnico No. V magnets to assure high fidelity response and excellent volume. Sturdily constructed of durable black plastic. Diameter of diaphragm is 1 7/8". Adjustable spring steel headband. Complete with 4 1/2 ft. cord with pin tips.

① No. 22B153. 2000 Ohms  
Each ..... **\$2.06**  
② 22B154. Single Headset.  
1000 ohms..... **\$1.17**

**\$2.06**

Double Headset

## TRIMM PROFESSIONAL-QUALITY PHONES

### ① FEATHERWEIGHT

World famous quality headset recommended for "hams", hearing aid installations, etc. Weighs only 4 1/2 ozs. Custom built throughout with 36% cobalt steel alloy magnet and especially impregnated coils.

No. 22B140. 24000 Ohm.  
For Shortwave Work..... **\$6.47**

### ① ACME DELUXE

Superior low cost headset for use with crystal sets, code training, all radio communications. Has double tubular headband and 4 1/2 ft. cord. Bakelite shell and cap.

No. 22A363—4000 Ohms  
Net Each..... **\$2.56**

### ① SUPEREX STEREO PHONES

Ideal for stereo private listening, language labs, and many other uses. Double headphone type with separate leads to each earphone. Has vinyl covered spring steel headband, spring tension adjustment, nickel plated ports. Phone units feature Alnico V magnets, dual coils, surface ground pole pieces, and shockproof, unbreakable case. Leads are stripped and tinned, less phone plug. Mfg. list \$3.85. Shpg. wt. 2 lbs.

No. 22A179 Model ST-48. 4-8 Ohm Impedance. Net Each..... **\$2.35**  
No. 22A180 Model ST-2000. 2000 Ohm Impedance. Net Each..... **\$2.35**

## HEADPHONE CORDS

Copper tinsel inner conductor covered with closely woven cotton braid. Single cord 4 feet, double 4 1/2 feet.

No. 17A32. Single cord, pin tips one end, spade tips other..... **35c**  
No. 17A33. Double cord, tips on both ends..... **49c**  
No. 17A34. Double cord, tips on one end, spade lugs other..... **49c**



## RUBBER HEADPHONE CUSHIONS

Made of soft rubber, designed for comfort and to fit most any make of headphone. Widely used by airlines.

No. 17A35. PER PAIR..... **88c**



## SUPEREX FOAM CUSHIONS

Designed to fit 95% of all headphones. Made of soft urethane foam for hours of listening pleasure in complete comfort without fatigue. Provides perfect coupling to the ear for best sound fidelity. Muffles outside noises. Non-toxic, hygienic, and roomy.

No. 22A178. Model PC-1.  
Per Pair..... **\$1.05**

## HIGH QUALITY CRYSTAL HEADPHONES

MFG. LIST \$18.95

**\$11.14**



### ① MYTRON CRYSTAL HEADPHONE

Designed for general laboratory use but perfect for ham or experimenter—wherever top quality extra-sensitive high impedance phones are needed. Frequency response 60-13,000 cps with an impedance in excess of 50,000 ohms at 1000 cycles. With plastic headband cover. Mfg. list \$18.95.

No. 22B269. Model N130.  
Net Each..... **\$11.14**

### ③ BRUSH GENERAL PURPOSE HEADPHONES

BA-200. Ideal for laboratory, studio, radio amateur use, etc. Wide range frequency response of 100 to 8000 cps.; high impedance, highly sensitive; Lightweight—double headset weighs only 8 ozs. Molded plastic case shaped for maximum comfort. Complete with 5' cord, plug and adjustable headband.

BA-200-1. Double Headset  
No. 22B147. Shpg. wt. 2 lbs..... **\$17.25**  
BA-201. Single Headset  
No. 22B148. Shpg. wt. 1 lb..... **\$14.95**

## 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 ham-mertone 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. 22B151. Complete Kit, Net Each..... **\$7.14**

No. 22B152. Extra 4 Ohm Headset for above. **\$2.80**

## TELEX MODERN HEADSETS



① METAL MONOSET. Modern under-ear headset. More comfort—less cumbersome than headband types. Featherweight; only 1.1 oz. Excellent fidelity. Made of durable anodized aluminum with removable white plastic eartips. 2000 ohm impedance. Mfg. list \$11.90.  
No. 17A488. HMY-2. Complete with 5' Cord and Standard Phone Plug. Net..... **\$7.14**  
No. 17A489.HMY-01. Less Cord..... **\$5.07**



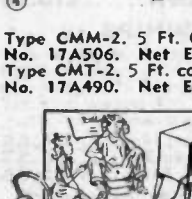
② TWINSET. Extremely lightweight (1.6 oz.) headset. Perfect comfort—nothing touches the ear—magnetic receiver rests lightly at the temples. Adjustable tubular sound arm pipes sound into the ear—blocks out background noise. Made of durable tenite plastic. Steel headband encased in flexible plastic. Approved by FAA for Pilots. 500 ohm impedance. Mfg. list \$21.00.  
No. 17A510. HTW-2. Complete with 5' Cord and Standard Phone Plug. Net..... **\$12.60**  
No. 17A501. HTW-01. Less Cord..... **\$10.50**



③ PLASTIC EARSET. Convenient, comfortable single phone earset. Weighs only 1/2 oz.—small enough to fit into a vest pocket. Plastic frame slips onto either ear holding earset securely in place. Other ear is free for conversation, phone calls, etc. Single cord connection gives user complete freedom of movement. 1000 ohm impedance. Mfg. list \$8.55.  
No. 17A511. EPX-2. Complete with 5' Cord and Standard Phone Plug. Net..... **\$5.13**



④ TELE-FI. 30% better understanding from induced time lag. Sound reaches one ear 1/1000 sec. after other—creating "depth" of sound. Ideal for hams, language students, secretaries, phone order board, etc. Weighs only 1/2 oz. without cord. Freq. resp. 60 to 6000 cycles. Foam rubber ear tips. Imp. 2000 ohms. Complete with 5 ft. cord and standard phone plug. Mfg. list \$9.95  
No. 17A493. Type HFY-91. Net Each.... **\$5.96**



④ TELE-TWIN. A lightweight stereo headphone for enjoyable stereo listening without disturbing others. Provides balanced stereo, unhampered by the distorting limitations of physical environment that speaker systems must overcome. By transmitting a separate stereo channel to each ear, truly amazing stereo reception is achieved. Low Impedance (voice coil) with 5 ft. 4-cond. cord, with 3-cond. cord attached, plus an in-line jack with 18-inch leads. Mfg. list \$23.50  
No. 17A767. Model HAV-13. Net Each. **\$14.10**

## TELEX CORDS

Type CMM-2. 5 Ft. Cord with standard phone plug for HTW-01.  
No. 17A506. Net Each..... **\$2.13**  
Type CMT-2. 5 Ft. Cord with std. phone plug for HMY-01, EPX-2, HFY-91.  
No. 17A490. Net Each..... **\$2.13**



## "TELEX" HEADSET KITS FOR TELEVISION AND RADIO

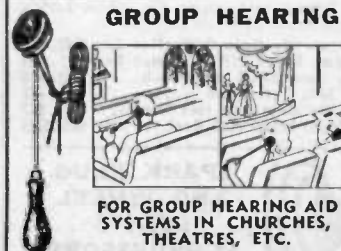
Provides high quality, private radio and TV listening without altering basic operation of set. Ideal for the hard of hearing, or for institutions. Consists of extremely lightweight earset with 4' of cable to plug into 3 1/2" dia. x 1" thick control case. Has outlet for additional earset if desired. Complete with 15' of cable and simple instructions for connecting to set.  
No. 17A539. Complete Kit with Earset. Net..... **\$8.91**  
No. 17B551. Extra Earset for above. Net Each **\$2.64**

NOTE: B-A can supply all Telex products. Write us for prices and delivery on items not listed above.



## TWO-WAY PILLOW SPEAKER ALSO SERVES AS DYNAMIC MICROPHONE

Ideal for private radio listening without disturbing others. Works under pillow. Hooks simply to any radio or amplifier. Alnico V Magnet. Voice Coil impedance 3.2 ohms. Excellent sensitivity. Stainless steel case. Only 3" dia. Wt. 8 oz. With 3 1/2' cord. Mfg. list \$8.95  
No. 22B142. Each..... **\$5.26**



## GROUP HEARING AID COMPONENTS

LORGNETTE TYPE PHONE

Trimm "Featherweight", Small, Light. Hearing unit only 2 1/2" dia. x 3/4" thick. Weighs only 1 1/2 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. wgt. 10 oz.

No. 22B156.  
Net Each..... **\$5.88**

FOR GROUP HEARING AID SYSTEMS IN CHURCHES, THEATRES, ETC.

## 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. 22B155. Net Each. **\$3.23**

## TRIMM PHONE PLUG

Flat type non-protruding. Body of black plastic. Set screw recessed openings for pin tips with stay cord anchorage. Fits standard phone jacks.  
No. 14A783. Net Ea. **51c**

# Keys and Code Sets

## POPULAR LIGHTWEIGHT EARSETS

### FOR ALMOST ALL TRANSISTOR RADIOS

Exact replacement, high quality earsets feature extreme sensitivity, good fidelity and rugged construction. Includes magnetic earphone, earloop, cord and plug—ready to install. Available for the following radios:

- IS-80 for RCA, Motorola, Philco and others requiring high impedance and miniature plug.
- IS-81 for Zenith, Regency, Admiral, Arvin, Emerson, RCA, Motorola, Philco, Roland, Traveler, Sony, DeWald and others requiring low impedance and min. plug.
- IS-83 for Westinghouse, Magnavox, Bulova, Sylvania, Hoffman, Solar, Sparton Sonora.
- IS-87 for General Electric.
- IS-21 for Motorola and others requiring ultra miniature plug and low impedance.
- IS-22 for General Electric and others requiring ultra-min. plug and high impedance.

Please Specify Stock No. and Type No. when ordering.  
No. 17C279. Mfg. List \$6.95

Choice. Net Each ..... **\$2.39** 3-Lots, Each ..... **\$2.21**

## RIDER "SOUND-N-SIGHT" CODE COURSE

Fastest, easiest way to learn code ever. Combines sound and sight plus an imaginary instructor to speed code learning. Makes use of a psychological principle proven successful by the armed forces in teaching the Morse Code. There is no slow down, you go right on up at an even pace, gaining as much as one word per minute per day. The courses are in two parts—novice and advanced. Or save by buying both courses in one package.

**Novice Course** (0 to 8 words per minute). Three 10" 33 1/3 LP records (96 minutes of recording, 28 recordings), 47 identification cards and book, train you to receive, transmit up to 8 words per minute. Wt. 3 lbs.  
No. 33A150. REC-08. Net Each. .... **\$9.50**

**Advanced Course** for amateur general, extra class or commercial license (9 to 20 words per minute). Three 10" 33 1/3 RPM LP records (96 minutes of recording, 18 recordings) and the book trains you to receive up to 20 words per minute. Shpg. wt. 3 lbs.  
No. 33A151. REC-920. Net Each. .... **\$8.95**

**Complete Course**—Consists of both of above courses.  
No. 33A152. REC-020. Shpg. wt. 5 lbs. Net ..... **\$15.95**

## DELUXE BRASS FAST-ACTION SPEED KEY

BRAND NEW PRODUCTION  
AT LEAST A  
\$6.50 VALUE

**\$2.95**

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 1/2 lbs.  
No. 17B601. Special Each ..... **\$2.95**

## POPULAR AUTOMATIC KEYS

### ① GENUINE VIBROPLEX

For all types of communications work where speed and perfect Morse are essential. Single lever. Two pairs of contact points; one for dots, the other for dashes. Easy to adjust. Wt. 3 1/2 lbs.  
**PRESENTATION SUPER-DELUXE**—24K gold-plated base top, polished chrome parts, red knob, jewel movement and adjustable main spring.

No. 33A171. EACH ..... **\$33.95**

**ORIGINAL DELUXE FINISH**—Polished chromium top parts and base, red knobs, with jeweled movement.

No. 33A172. EACH ..... **\$26.95**

**ORIGINAL STANDARD FINISH**—Polished chromium top parts, gray base.

No. 33A173. EACH ..... **\$22.45**

### ② VIBROPLEX "CHAMPION"

A low price key for the amateur or professional radio operator. Has exceptional sending qualities—clarity, speed, sending ease. Gray crystal finish, metal base with bright finished parts. Wt. 3 lbs., 8 oz.

No. 33A174. EACH ..... **\$17.95**

### ③ JOHNSON HI-SPEED KEY

Combines best features of former amateur and professional models. Fully adjustable from lowest to highest speed with smooth, snappy action. 6 1/4" x 3" x 1 1/2" cast base in black wrinkle enamel. Parts heavily chrome plated. Has 1/8" pure silver contacts. Wt. 3 lbs.  
No. 33A176. Model 520. Each ..... **\$13.95**

**Cord and Wedge** for all above speed keys.  
No. 33A177 ..... **\$1.15**

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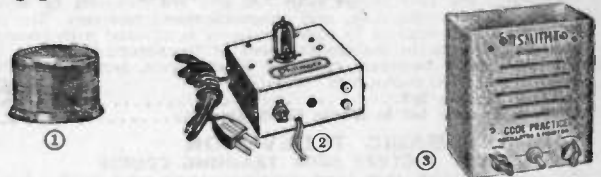
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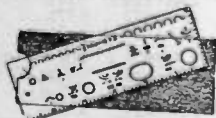
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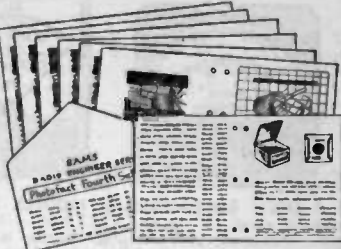
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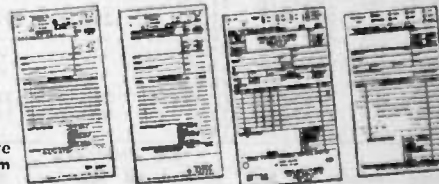
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Holders for #120, 320, 420, 520, 620 and 341 forms. Wt. 8 oz.	No. 16A381. No. 122. Aluminum Holder. Each. <b>\$3.50</b>
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No. 16A437. No. 222. Aluminum Holder. Wt. 2 lbs. Each. <b>\$4.50</b>	No. 16A438. No. 126. Vinyl holder. Wt. 8 oz. Each. <b>\$1.50</b>





# Panel Meters—Testers

## LOW COST SHURITE PANEL METERS



MODEL 850

- Attractive new design.
- For sturdy dependable service.
- Wide selection of ranges.

Calibrated for non-magnetic panels. Accurate within 5%. White, metal scale, black calibrations. DC meters polarized-vane solenoid type; AC meters double vane repulsion type, jeweled bearings. All mount in 2 3/8" round hole. Extend 1 7/8" behind panel.



MODEL 950

Model 850—Clear Plastic Case. Case front 2 3/8" W, 2 3/8" H.

Model 950—Black Metal Case, 2 5/8" sq., flange mounting.

### DC MILLIAMMETER—Clear Plastic

Range	Stk. No.	Mfg. No.	Each
0-1*	19B300	8300Z	\$3.00
0-3*	19A274	8332Z	3.50
0-5	19B301	8302	2.65
0-10	19B302	8303	2.40
0-15	19B304	8304	2.20
0-25	19B305	8305	2.20
C-50	19B306	8306	2.20
C-100	19B307	8307	2.20
C-150	19B308	8308	2.20
C-200	19B309	8309	2.20
C-300	19B310	8310	2.20
C-500	19B311	8312	2.20

\*Has zero adjust.

### DC MILLIAMMETER—Black Metal

Range	Stk. No.	Mfg. No.	Each
0-1*	19A357	9300Z	\$3.50
0-3*	19A561	9332Z	3.30
0-5	19A571	9302	2.45
0-10	19A216	9303	2.20
0-15	19A217	9304	2.00
0-25	19A218	9305	2.00
0-50	19A219	9306	2.00
0-100	19A220	9307	2.00
0-150	19A563	9308	2.00
0-200	19A221	9309	2.00
0-300	19A222	9310	2.00
0-400	19A359	9311	2.00
0-500	19A573	9312	2.00

\*Have zero adjust.

### DC VOLTS—Clear Plastic

Range	Stk. No.	Mfg. No.	Each
0-3	19A326	8102	\$2.20
0-5	19A327	8104	2.20
0-10	19B290	8107	2.20
0-15	19B291	8108	2.20
0-25	19B292	8109	2.50
0-50	19B293	8122	2.50
0-150	19B294	8115	2.60

### DC AMPS—Clear Plastic

Range	Stk. No.	Mfg. No.	Each
0-3	19A319	8202	\$2.20
0-5	19B295	8203	2.20
0-10	19B296	8205	2.20
0-15	19A320	8206	2.20
0-25	19B297	8207	2.70
0-50	19A321	8208	2.70
10-0-10	19A322	8213	2.70
20-0-20	19B299	8214	2.70

### AC VOLTS—Clear Plastic

Range	Stk. No.	Mfg. No.	Each
0-10	19A329	8403	\$3.45
0-25	19A330	8412	3.45
0-50	19B312	8405	3.60
0-150	19B313	8406	3.90
0-300	19B314	8407	4.55

### AC AMMETER—Clear Plastic

Range	Stk. No.	Mfg. No.	Each
0-3	19A323	8502	\$3.30
0-5	19B287	8503	3.30
0-10	19B288	8504	3.30
0-15	19B289	8508	3.30
0-30	19A324	8505	3.40

### OHMMETER

Measures resistance from 0-10,000 ohms.

Stk. No.	Model	Net Ea.
19A252	9701 Sq. Metal	\$2.60
19B315	8701 Sq. Plastic	2.30

## NEW SHURITE EDGEWISE METERS



Model 350 presents the "New Look" in low cost panel meters. Has clear polystyrene meter front with contrasting black escutcheon. Makes possible many new designs and panel layouts. Escutcheon size 2 3/8" long, 7/8" high. Meter extends 1 3/4" behind panel. Rear depth 1 7/8", width 1 5/8". Mounts in 1 1/2" x 1 3/8" cutout with two screws from the front. Movement specifications same as Model 850 above.

Range	Stk. No.	Mfg. No.	Each
0-10	19A442	3107	\$3.35
0-15	19A443	3108	3.35

### DC AMPS

Range	Stk. No.	Mfg. No.	Each
0-5	19A445	3203	\$3.35

EDGEWISE S METER NO. 3333. Measures relative signal strength. Ranges 0-40 db. accuracy  $\pm 5\%$ . Same as Model 350. Has suggested circuit. No. 19B394. Net Each.....\$3.45

Range	Stk. No.	Mfg. No.	Each
0-10	19A446	3303	\$3.45
0-50	19A450	3306	3.35
0-100	19A475	3307	3.35

### AC VOLTS

Range	Stk. No.	Mfg. No.	Each
0-150	19A476	3406	\$4.10

CLEAR PLASTIC VU METER. Same as Model 850 above. Measures audio level. Range -20 to +3 VU. 5% accuracy. AC rectifier type No. 8801Z. No. 19B400. Net Each.....\$5.85

## STERLING POCKET METERS



No. 31A HEARING AID BATTERY TESTER. Has two scales, 0-50 volts and 0-2 volts. 2 1/4" diameter, 3/8" thick, bright nickel finished. \$2.65

No. 16A734. Net Each

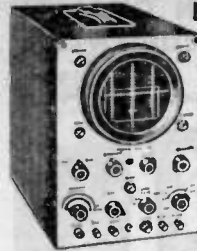
No. 42A PORTABLE RADIO BATTERY TESTER. Equipped with red and green "Good-Bad" color chart for all standard "B" and "A" batteries. Also has 0-100 volt scale. All tests are made at correct load to give true battery condition. Case size, 2 1/4" diameter, 3/8" thick, bright nickel finished. \$3.82

No. 16A735. NET EACH

No. 13 TRANSISTOR BATTERY TESTER. Has 0-7 voltage scale. For the new Mercury cells and transistor batteries. Indicates battery strength with a minimum consumption of power. \$2.73

No. 16B718. Net Each.....\$2.73

## RCA QUALITY TESTERS



W091A  
BROAD-BAND  
5-INCH  
ALL PURPOSE  
SCOPE



NOW IN KIT FORM  
FAMOUS WV98B SR. VOLTOHMYST  
**\$62.50**  
SAVE \$17.00  
Wired \$79.50

RCA W091A WIDE BAND 5-INCH SCOPE. Designed for color or black and white TV service and wide variety of commercial uses. Features: • 4.5 MC bandwidth. • 18 mv sensitivity. • Multigraph screen for accurate peak-to-peak voltage measurement. • Voltage-calibrated 3.1 step attenuator. • Positive lock internal sync. Response, wide operation within 3 db. 10 Cps to 4.5 MC. High sensitivity operation within -1 db 10 cps to 5 MC; within -6 db 1.5 MC sensitivity; .05 volt peak-to-peak per inch (.018 volt RMS) in high sensitivity position. Cabinet size 9" wide, 13 1/2" high, 16 1/2" deep. Wt. 28 lbs. Complete with direct low capacitance probe, all leads and instructions. \$239.50

RCA WV98B SENIOR VOLTOHMYST. Improved all-electronic VTVM. Ideal for Radio and TV servicing and the exacting requirements in laboratories or industry. New deluxe features include: 6 1/2" wide vision meter with expanded easy to read scales; improved accuracy of  $\pm 3\%$  all ranges full or ohms reading. Rugged die-cast aluminum case. Has seven DC voltage ranges from 0-1500 volts. Fourteen AC ranges; seven peak-to-peak from scale, switch type AC-DC-ohms probe with finger tip selection for AC-DC 0 to 4200 volts, seven RMS (sine wave) 0 to 1500 volts, frequency to 3 MC. Seven ohm ranges 0 to 1000 megohms. For 115-125 volts, 50-60 cycle AC. Size 6 1/2" high, 7" wide, 3 3/4" deep. Blue-Gray hammered with stain aluminum panel. Wt. 6 lbs. \$62.50

No. 35A355. Complete Kit, Net Each.....\$62.50  
No. 35A367. Factory-wired and tested. Net Each.....\$79.50  
No. 35A395. WG301A Crystal Probe frequency response 30 cps to 250 MC for WV98B and WV87B Volttohmmyst. Each.....\$7.75  
No. 35A263. WG289 HI-Voltage (30K) Probe for WV98B and WV87B Volttohmmyst. Each.....\$9.95

## 301 WESTON PANEL METERS

B-A IS DISTRIBUTOR FOR ENTIRE WESTON LINE, WRITE FOR INFORMATION ON ITEMS NOT LISTED. The Famous Weston 301 has new modern look—new low price—new "Comrag" mechanism which is immune to stray magnetic fields. Special calibration for use on metal panels is not required. Accuracy is 2% full scale value. Mounts in 2 3/4" cutout.



### DC MILLIAMMETERS

Range MA	Model	Stock No.	Net Ea.
0-1	301	29A1411	\$14.75
0-10	301	29A1413	14.75
0-100	301	29A1414	14.75
0-300	301	29A1415	14.75

### DC VOLT—1000 OHMS PER VOLT

Volts	Model	Stock No.	Net Ea.
0-15	301	29A1416	\$15.25
0-30	301	29A1417	15.25
0-150	301	29A1420	15.25

### DC AMMETERS

Amps	Model	Stock No.	Net Ea.
0-10	301	29A1423	14.75
0-30	301	29A1424	15.75

### DC MICROAMPERES

Micro-Amps	Model	Stock No.	Net Ea.
0-100	301	29A1425	\$17.75
0-200	301	29A1426	15.25

## JBT ELAPSED TIME METER

Indicates accumulated operating time of AC electrical and electronic equipment. Registers 1/10 hour steps to 9,999.9 hours total, then resets to zero automatically. In round 3 1/2" bakelite case; mounts in 2 3/4" hole. For 110-130 V. 60 cy. AC. Shpg. wt. 1 1/4 lbs. \$15.95

No. 29A1309 Model 31-EX. NET EACH.....\$15.95



## JBT FREQUENCY METERS

Model 34FX. 9 Reeds 60 cycles. Covers range of frequency from 56 to 64 cycles. Accuracy  $\pm 2\%$ . 100 to 130 volts, 110 ohms per volt. 1 watt power consumption. 3 1/2" molded case, mounts in 2 3/4" hole. \$27.25

No. 29A1297. Model 34FX. Each.....\$27.25

Model 31FX 5 Reeds 58-62 cycles 130 volts accuracy  $\pm 3\%$  for measuring frequency of power source. Molded bakelite case 3 1/2". Mounts in 2 3/4" hole. \$23.65

No. 29A1307. Model 31FX. Each.....\$23.65

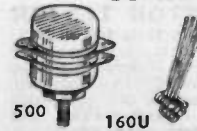


## SHURITE AC LINE TESTER

A reliable, inexpensive method to determine if a line is adequate for operating air conditioners, freezers, heaters and other appliances. 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. 19A399. \$3.87



## CONANT INSTRUMENT RECTIFIERS



Series 500 is recommended up to 50,000 cps. in circuits requiring over 1 ma. Disc dia., 500". Series 160U is recommended where linear response is required over entire commercial and audio range at currents up to 1 ma. Disc dia. .160". Continuous duty rating.

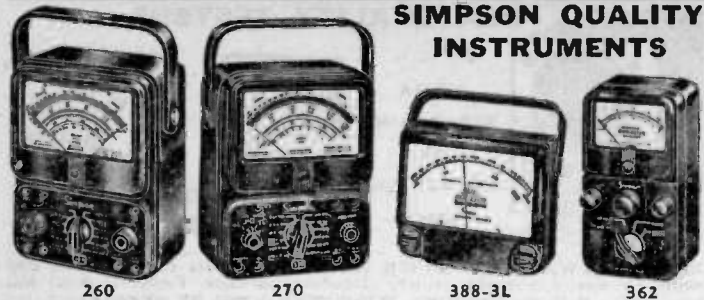
500 160U  
dia., 500". Series 160U is recommended over entire commercial and audio

Stock No.	Mfr's Series	Output Volts	Price Each
14A629	M	500 10 30	\$2.08
16A732	HS	500 5 30	1.50
14A631	H	500 5 30	1.18
14A630	BU	160U 10 5	1.94
16A733	BHSU	160U 5 5	1.38

Use B-A's Easy Payment Plan—No Down Payment



# Simpson and Triplett Instruments



## SIMPSON QUALITY INSTRUMENTS

260 270 388-3L 362

### IMPROVED SIMPSON 260 V.O.M.A.

Better than ever at no increase in price! New features: polarity reversing switch, increased sensitivity 0-50 microamp and 250 millivolt range—5000 o.p.v. on AC. Frequency response 5 to 5000—full-wave bridge rectifier—expanded scales for easier reading. High sensitivity (20,000 o.p.v. DC volts; 5000 o.p.v. AC volts). Provides AC and DC volts ranges of 0-250MV, 2.5, 10, 50, 250, 1000, 5000 volts; AC volts ranges of 0.25, 10, 50, 250, 1000; AC volts with internal series capacitor 0-2.5, 10, 50, 250; Current Ranges (DC) of 0-50 microamps, 0-1, 10, 100, 500 M.A.; 0-10 Amps; 4 DB ranges from -20 to +50 db; Resistance readings 1/5-Ohm to 20-Meg! 5" Meter. With test leads, manual and built in stand, 5 1/4 x 7 x 3 1/8".

No. 35A60. Simpson Model 260. Wt. 5 lbs. Net Each. **\$43.07**  
 No. 35A165. Carrying Case, for Model 260-270. Wt. 1 lb. Net. **\$9.55**  
 Simpson Model 260R in ROLL TOP SAFETY CASE. Heavy molded bakelite case with test lead space—bakelite roll cover protects instrument, rolls up out-of-way at a touch! Complete with test leads. Wt. 9 lbs. **\$48.95**  
 No. 35B51. SIMPSON ROLL-Top-Case model 260R. Net. **\$48.95**  
 No. 35A264. 25,000-VOLT DC PROBE for 260 Models. Each. **\$11.27**

### MODEL 270 MULTIMETER

The Extra Quality Laboratory Instrument featuring: Greater accuracy over a wide range of temperature changes. DC accuracy 1 1/2% full scale 20,000 ohms per volt. AC accuracy 2% full scale 5,000 ohms per volt. Mirrored scale. Knife-edge pointer. Ranges: 7 DC volts from 250 MV to 5000 volts. 6 AC volts from 2.5 to 5000 volts. AF 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 megohm in 3 ranges. Black molded case 5 1/4 x 7 x 3 1/8". Wt. 5 1/2 lbs.

No. 35A41. Model 270. Net Each. **\$58.75**

### SIMPSON 388-3L THERM-O-METER

Model 388-3L Therm-O-Meter permits three probe application with a range from -50° to +1000° F on a combination Fahrenheit and Centigrade scale. Has selector switch for each probe where more than one temperature is being measured at one time. Either range may be observed instantly at a high degree of accuracy. Automatic compensation for room temperature. Complete with one general purpose thermocouple probe. Size 8x6x3". Wt. 5 lbs. Complete ready to use.

No. 35A104. Each. **\$66.59**  
 No. 35A105. No. 0190 General Purpose Probe. Each. **\$4.85**  
 No. 35A106. No. 0187 Surface Temperature Probe. Each. **\$8.72**  
 No. 35A107. No. 5262 Carrying Case. Each. **\$9.75**

### SIMPSON LOW RANGE OHM METER MODEL 362

Range 0.1 to 25 ohms in two ranges 0 to 5 and 0 to 25. Accuracy of 3% full scale value. Typical uses include: measuring resistance of soldered or clamped wire connections, switch or relay contacts, checking motor armatures and fields for shorts or grounds. Black bakelite case 5 7/8 x 3 x 2 1/2". Completely self-contained with leads ready to use. Wt. 3 lbs.

No. 35A540. Simpson Model 362. Net Each. **\$24.45**

### SIMPSON 383A CAPACOHMETER

Time saving, in circuit capacitor tester. Measures leakage in ohms of defective paper, mica or ceramic capacitors, indicates capacity directly from 10 mmf to 10 mfd. Exclusive "Pulse Test" knocks out border line capacitors before they go bad, eliminating many intermittent circuit conditions and call backs. Has 4 1/2" meter. Requires no difficult adjustment or balancing. Gray cabinet 1 1/2" W., 7 1/2" H., 6 1/2" D. Wt. 12 lbs.

No. 35A366. With Operators Manual & Leads. Net **\$88.15**

### NEW TRIPLETT VTVM MODEL 850

Features: Long view scales, 7" at top arc. Clear plastic front floods dial with unobstructed natural light. Burnout protected meter. Single unit probe. Molded black case 7 3/8 x 6 7/8 x 3 3/4". Carrying handle also serves as tester stand holding meter at 25° angle for perfect viewing. Measures up to 1500 DC volts in 8 ranges, 0-1500 volts AC RMS in seven ranges, 0-4000 volts peak-to-peak in seven ranges, up to 1000 megohm in seven ranges. 15 cps to 3 MC frequency range (to 250 MC with accessory probe). Input impedance DC volts 11 meg., AC volts min. .83 meg. For 115 volt AC operation. Wt. 5 lbs.

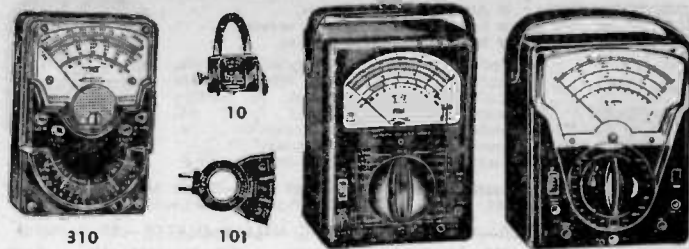
No. 35A464. Complete, Net Each. **\$77.91**

### TRIPLETT 690A TRANSISTOR TESTER

Dependable, accurate leakage and gain tests for all NPN or PNP transistors. Measures DC Beta current gain from 5 to infinity. Has an exact short and leakage test plus forward and reverse leakage of diodes. Battery operated, may be used anywhere. Has both sockets and test leads for accommodating any base layout. Black molded case 6 x 5 1/2 x 2 1/2". Wt. 4 lbs. Complete ready to use.

No. 35A102. Each. **\$31.85**

## TRIPLETT MULTIMETERS



310 101 630-630A 630PL-630APL

### MODEL 310 POCKET SIZE V.O.M.A.

Size, 2 3/4" x 4 1/4" x 1 1/2". Plastic face meter fits in shirt pocket or in leather case with convenient belt clip (listed below). Weighs only 14 oz. with battery. Complete miniature 20,000 ohm per volt meter, 5 DC volt ranges 0-1200. AC—5 ranges 0-1200 volts of 5 K ohms/volt. Microamperes 0-600, DC mils 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. Uses banana type jacks. Complete with test leads ready to use.

No. 35A352. Net Each. **\$36.75**  
 No. 35A353. Model 369 Carrying Case for 310 Meter. Each. **\$3.14**

### TRIPLETT CLAMP-ON ADAPTER

Model 10 adapts Model 310 above for checking AC line loads up to 300 amps without breaking circuit or interrupting work.

No. 35A100. Complete ready to use. Each. **\$15.20**  
 Model 101 provides line separation and increase sensitivity X10 and X20.  
 No. 35A101. Complete with Instructions. Each. **\$5.88**

### 630 ALL-TIME FAVORITE MULTIMETER

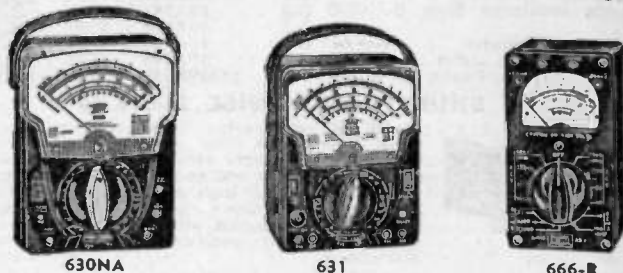
Proven dependability over a long period of time has made this instrument the all-time favorite. 20,000 ohm per volt sensitivity DC and 5000 ohms AC. 3% accuracy DC and AC voltage ranges 0-3-12-60-300-1200-6000. Ohms 1-1000-10,000. Megs 0-1-100. DC microamps 0-60. DC milliamps 0-1.2-12-120 at 250 millivolts. DC amperes 0-12. DB -20 to +77. Output volts 0-3-12-60-300-1200. Size 3 1/8 x 5 1/2 x 7 1/2". Wt. 4 lbs.

No. 35A170. Model 630. Complete with leads. Net Each. **\$48.51**  
 Special Model 630A. High precision type with 1/2% resistors, mirrored scale. Accuracy 1 1/2% on DC to 1200 volts. Otherwise same as 630 above.  
 No. 35A171. Complete with leads. Net Each. **\$58.31**

### NEW FULL-VIEW MODEL 630PL V.O.M.A.

20,000 O.P.V. DC—5,000 O.P.V. AC. New features include: DC polarity reversing switch; instant vision, wider spread scales, with new streamlined plastic front meter; AC frequency response 5 to 500,000 cps. Single selector switch has 2 1/2" recessed knob flush with panel. Precision resistors in separate molded compartments, integral with switch. DC Volts Ranges: 0-2.5-10-50-250-1000-5000. Ohms Ranges: 0-1000, 10,000 ohms; 0-1-100 megohms. AC Volts Ranges: 0-3-10-50-250-1000-5000. DC Current Ranges: Microamp: 0-100. Milliamp: 0-10-100-1000 MA. Output: Condenser in series with AC volt ranges. Decibels: -20 to +75 in 6 ranges. With 50" test leads, batteries, instructions. 3 1/8 x 5 1/2 x 7 1/2". Wt. 4 lbs.

No. 35B67. Model 630PL V.O.M.A. Net. **\$48.51**  
 SUPER-PRECISION MODEL 630APL, identical to 630PL above except has 1/2% resistors and long mirrored scale to prevent Parallax.  
 No. 35A149. Model 630APL. Net. **\$58.31**  
 35B68. Black Leather Carrying Case for 630PL, 631 or 630NA. Net. **\$9.71**



630NA 631 666-R

### SUPER V.O.M.A. MODEL 630NA

Features 70 meter ranges: overload protection; accuracy DC 1 1/2%; AC 3%—1200. 5 1/2" lucite face meter. Mirrored scale, knife edge pointer. 70 ranges are 8 DC volts 0 to 6 K at 10 K ohms/volt, 8 DC volts 0 to 3 K at 20 K ohm/volt, 6 AC volts 0 to 6 K at 5 K ohms/volt, 6 AC volts 0 to 3 K at 10 K ohms/volt, 12 output (series condenser on AC ranges), 12 db -20 to +70 db. 3 DC Microamperes 0-120 at 240 MV and 0-600 at 120 MV. 4 DC mils 0-1200 at 240 MV and 3 0-600 at 120 MV. 1 DC amps. 0-12 at 240 MV and 1 0-6 at 120 MV. 3 ohms 0-100 K and 3 megohms 0-100 meg. Black molded case 3 1/8" x 5 1/2" x 7 1/2", strap handle. Wt. 4 lbs. Complete with leads and instructions.

No. 35A354. Net Each. **\$77.91**

### MODEL 631 VOM & VTVM

34 ranges. VOM sensitivity 20,000 ohms per volt DC, 5000 for AC and VTVM 11 Megohms. 5 1/2" clear plastic faced meter with expanse scales. VOM Ranges both DC and AC volts 0-3-12-60-300-1200; DC Micro-amperes: 0-60; DC Mils 0-1.2-12-120-1200. DC Amps 0-1. 12; DB -20 to +63; Ohms 0-1500-15K and 0-1.5-150 Megs. Output condenser in series with AC volts. VTVM Ranges: DC volts 0-1.2-6-30-120. Zero-center. VTVM is a stable battery operated circuit with convenient push switch to check B+ voltage. Size 3 1/8" x 5 1/2" x 7 1/2". Wt. 4 lbs.

No. 35A313. Model 631. Complete. Ready to Use. **\$68.11**

### MODEL 666-R VOMA

Handy, rugged "Pocket Lab" with 3-inch 200 Micro-amp. Meter. Single recessed, molded selector switch. Ranges: AC-DC Volts: 0-10-50-250-1000-5000 (10000 opv). DC Current: 0-10-100 ma, 0-1 amp (250 mv) Resistance: 0-3000-300,000 ohms; 0-3 Meg. Compensated Ohmmeter circuit. Black molded case, handy pocket size 3 1/8 x 5 1/2 x 2 1/8".

No. 35A103. Wt. 2 lbs. Complete with test leads. Net. **\$31.85**

# Hickok-EMC-Sencore-Weston

## HICKOK INSTRUMENTS — CHOICE OF THE EXPERTS



**MODEL 539B LABORATORY TUBE TESTER.** The most accurate and most complete laboratory portable. Dynamic mutual conductance type, designed to furnish professional accuracy for lab, design engineers, field engineers and technicians in Radio-TV and all phases of electronics. Special features: ● Choice of AC signals. Rectified DC grid bias and separate plate and screen voltage. ● Tests voltage regulator tubes, selenium rectifiers and diodes. ● Direct reading 50 megohm short test. ● Reads heater current. ● Line voltage monitored on AC meter. ● Panel plug for plate milliammeter. ● Micro-mho ratings, gas and tube life tests. ● Uses 3 highest accuracy Hickok Meters. Strong portable black leatherette case with detach cover 16 $\frac{3}{4}$  x 18 $\frac{3}{8}$  x 7 $\frac{1}{2}$ ". Shpg. wt. 35 lbs. Set of replaceable tube sockets incl. **\$439.00**  
No. 35A184. Model 539B. Net Each.

**MODEL 6000 TECHNICIANS TUBE TESTER.** High-Speed Portable Size for Radio and TV Technicians. Featuring Dynamic Mutual Conductance test of ALL types of receiving and television tubes—gas tests, future life tests, and readings directly in micromhos (3000-6000-15000), in combination with English reading, "Good-Bad" scale! Matches tubes for PP amplifiers and television tubes for clearer pictures! Has same circuit features as other Hickok testers but is a smaller, lighter weight portable instrument—at a saving in cost! In sturdy removable hinged lid case, red leatherette covered. Size 16 $\frac{3}{4}$  x 11 $\frac{3}{4}$  x 7 $\frac{1}{2}$ ". Wt. 21 lbs. For 110-130 V. AC. **\$197.50**  
No. 35B47. Model 6000 Tube Tester. Net Each.

**MODEL 800 STANDARD TUBE TESTER.** Hickok's most complete, accurate tester for the money. Dynamic Mutual Conductance Portable Tube Tester-Transistor-Diode Checker. Features leakage and short test for inter-element leakage up to 10 megohms. Has quick-check filament continuity test for series string tubes. Incorporates Hickok's original dynamic mutual conductance circuit plus new gas test. Has 5-inch meter, reads 0-15,000 micromhos direct. Evaluates remaining cathode life of tubes under test. Time saving roll chart. Red leatherette case 16 $\frac{3}{4}$  x 11 $\frac{3}{4}$  x 7 $\frac{1}{2}$ " deep. **\$169.50**  
No. 35A208. Shpg. wt. 21 lbs. Model 800 Complete.

**PICTURE TUBE TEST ADAPTER** for all tube testers listed. **\$15.75**  
No. 35A145. Hickok Model CRT. Each.

## EMC QUALITY TEST INSTRUMENTS



FOR  
MAXIMUM  
VALUE  
AND  
SERVICE  
AT THE  
LOWEST  
PRICE!

### 206P MUTUAL CONDUCTANCE TUBE TESTER

The finest in tube testing equipment at a very competitive price. Checks mutual conductance on a calibrated Micromho scale and "Reject-Good" scale on 4 $\frac{1}{2}$ -inch meter. Completely flexible, extremely accurate. Tests for shorts, opens, gas content, RF and other noise. Lever type switches allow testing of all present and future tubes, regardless of location of elements on tube base. Roller Tube Chart. Hardwood carrying case, size 13 $\frac{1}{2}$  x 12 $\frac{1}{2}$  x 4 $\frac{1}{2}$ ". Wt. 16 lbs. **\$81.82**  
No. 35A168. EMC Model 206-P, Net Each.

No. 35A212. Picture Tube Test Adapter for 206P. Net Each. **\$6.37**

### 204P TUBE BATTERY-OHMS-CAPACITY TESTER

Offers four essential service tests in one instrument, checks tubes, batteries, Ohms resistance and condensers capacity. Test all Tubes by standard emission method. 4-position modern lever switching. .75 to 117 filament volts—tests ballast tubes, magic eye, cold cathode and voltage regulator types! Checks batteries under rated load. Checks capacity from .01 to 1 mfd. Checks condenser leakage to 1 megohm. Checks resistance to 4 megohms! Double width Roll Chart, neon "shorts" and "leakage" tests! English reading 4" meter. Oak portable case, size 11 x 12 $\frac{1}{2}$  x 4 $\frac{1}{2}$ ". Wt. 14 lbs. **\$54.78**  
No. 35A151. Model 204P Multi-Purpose Tester, Net Each.

No. 35A320. Picture Tube Test Adapter for 204P. Net Each. **\$4.41**

### 301P SPEDI-TUBE TESTER

Spedi-checker requires only two simple settings to test tubes for quality, leakage and shorts. Reliable and accurate results for over 375 tube types, including octal, loctal, miniature 7 and 9 pin and OZ4 rectifier. New types can be added as they appear. Has line voltage regulation. Also tests and rejuvenates picture tubes with PTA adaptor listed below. Housed in solid oak case with slip-hinge cover. Size 11 x 12 x 4 $\frac{1}{2}$ ". Wt. 12 lbs. **\$46.55**  
No. 35A559. Model 301P.  
Ready to use. Net. **\$4.41**  
35A560. PTA Picture Tube Adaptor.

## NEW SENCORE TIME-SAVER TESTERS



TC114

PS103

TR115

### MIGHTY MITE TUBE CHECKER TC114

A time saving tester that finds tube troubles other testers miss, saves call backs. Tests over 1300 types for cathode emission, grid emission, leakage, shorts, gas. Also tests picture tubes. Controls easily set up from easy to follow tube chart. Steel case with mirror in lid 9x8x2 $\frac{1}{2}$ ". **\$67.50**  
No. 35A185. Model TC114. Shpg. wt. 7 lbs. Net Each.

### MODEL PS103 BATTERY SUBSTITUTE

For use while servicing transistor radios, amplifiers, etc. Output variable from 0 to 24 volts and read on meter. By use of function switch the current load may be read and radios may be aligned by tuning IF coils for maximum current. Unit may also be used for charging nickel cadmium batteries. Size 5x4 $\frac{1}{2}$  x 2 $\frac{1}{2}$ ". Wt. 2 lbs. **\$19.95**  
No. 16A293. Model PS103. Net Each.

### SENCORE TR115 TRANSISTOR TESTER

Accurate tests on all transistors, diodes and rectifiers. Has simple set up chart, reads transistor gain, leakage and indicates good or bad on meter scale. Measures forward and reverse current on diodes. **\$19.95**  
No. 35A557. Wt. 2 lbs. Model TR115. Net Each.

### SENCORE SWEEP CIRCUIT TROUBLE SHOOTER SENSATIONAL NEW INSTRUMENT FINDS HORIZONTAL AND VERTICAL SWEEP CIRCUIT TROUBLES IN SECONDS, NO GUESSWORK

Model SS105. Functions are:  
● Universal horizontal oscillator substitute —output variable from 0 to 200 volts P to P.  
● Cathode current checker in horizontal output, use socket adapter without disconnecting wires.  
● Deflection yoke tester. ● Flyback tester.  
● Voltmeter 0-1000 volts range.  
● Checks vertical oscillator, yoke and transformer.  
It's complete, nothing else to buy. Size 7x6x3 $\frac{1}{2}$ ". Wt. 4 lbs. For 110-120 V. AC operation. **\$42.95**  
No. 35A150. Model SS105.



### MODEL TR-110 TRANSI-MASTER

Analyze transistor circuit troubles in minutes. It is a complete transistor tester, signal tracer, voltmeter, battery tester and milliammeter.  
● Tests all transistors in circuit with unique AC gain check. ● Tests all transistors out of circuit with either AC gain or DC current gain and leakage check. ● Read current gain (Beta) direct. ● Checks diodes with forward to backward ratio check. ● Signal traces with 2000 cycle signal. ● Checks batteries under operating conditions. ● As milliammeter to monitor current of entire transistor circuit, for alignment or checking cracked boards. ● Lists Jap equivalents. ● Automatically determines NPN-PNP. An "up to the minute" tester for all the latest semiconductor testing. It's easy to use, has complete instructions, transistor and diode charts. Gray cabinet size 8x7 $\frac{3}{8}$  x 3". Wt. 5 lbs. **\$49.50**  
No. 35A322. Model TR-110. Net Each.



## WESTON QUALITY INSTRUMENTS

### WESTON MODEL 749 AC CLAMP VOLT-AMMETER

Pocket size, easy to handle highly dependable volt-ammeter. Ideal for the electrician and serviceman. Black bakelite case with shatterproof meter window. Safely insulated for 750 volts. 6 ampere ranges 0-6-15-30-60-150-300 and 3 voltage ranges 0-150-300-600. All scales are easy to read from any angle. Accuracy  $\pm 3\%$  on 50-60 cycle and  $\pm 5\%$  on 400 cycle for full scale value. Size 7 $\frac{1}{2}$ " long, 3" x 1 $\frac{1}{4}$ ". Wt. 14 oz. **\$51.50**  
No. 35A128. Complete with Carrying Case and Leads.  
Net Each.  
Model 9886 Plug-In 10 to 1 Divider for low current. **\$5.25**  
No. 35A129. Net Each.



### WESTON MODEL 980 MARK II MULTIMETERS

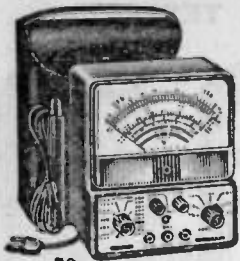
A highly sensitive instrument which maintains extreme accuracy. Ideal for all types of electronic service. Specifications: 7 DC volt ranges to 4000 volts at 20,000 ohms per volt 2% accuracy; 6 AC volt ranges to 1600 volts at 1000 ohms per volt 3% accuracy; 4 DC milliamp ranges to 800 mAs; 0 to 80 DC microamps; 0-8 DC amps; 5 fused resistance ranges to 10 megohms. Simplified, single dial switching for all ranges. Black molded crack-proof case, engraved panel with white markings, 7 $\frac{3}{8}$ " H, 6 $\frac{1}{4}$ " W, 3" D. Including knobs. Wt. 3 lbs. **\$49.50**  
No. 35A561. Net Each.



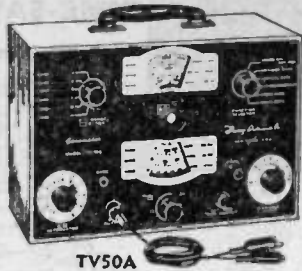


# Selected Service Instruments

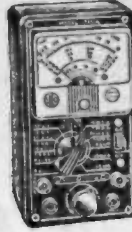
ECONOMICAL SUPERIOR INSTRUMENTS, EVERYONE CAN AFFORD



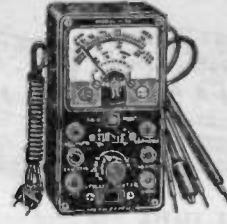
79



TV50A



770A



70



77

## SENSATIONAL SUPER METER MODEL 79 ALL PURPOSE MULTI-RANGE TESTER

- Measures Volts—Ohms—Current Capacity—Reactance—Inductance—DB.
- Tests Selenium & Silicon Rectifiers, Diodes & Capacitors.

Features: Plastic front 6" full view meter, contained in modern design plastic case. An extra value instrument offering all the following tests in one highly dependable and accurate tester. DC volts 0 to 1500 in six ranges; AC volts 0 to 3000 in six ranges; DC current 0 to 150 milliamp in three ranges and 0 to 1.5 and 15 amperes. Resistance 0 to 10 megohms in three ranges. Capacity .001 to 1 mfd, 1 to 50 mfd. Reactance 50 to 2500 ohms, 2500 ohms to 2.5 megohms. Inductance .15 to 7 henries, 7 to 7000 henries. Decibels—6 in five ranges to +58. The following quality tests are made at proper voltage, read on good-bad scale. Electrolytic condensers 1 to 1000 mfd, and all selenium and silicon rectifiers and diodes. Size 6 1/2" W. x 7 1/2" H. x 5" D. Wt. 4 lbs. Complete with leads, instructions and carrying case.

No. 35A246. Model 79 Complete, nothing else to buy. Net Each **\$37.73**

## SEVEN SIGNAL GENERATORS IN ONE SAVES THE PRICE OF SEVERAL INSTRUMENTS

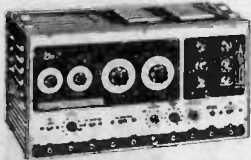
- RF signal for AM.
- RF signal for FM.
- Audio frequency generator.
- Bar generator.
- Cross hatch generator.
- Color dot pattern generator.
- Marker generator.

Super Model TV50A. Provides RF signal for both AM and FM alignment, frequency range from 100 kilocycles to 100 megacycles. Modulated by 400 cycle or variable 300 to 20,000 cycle audio. Audio generator of 400 cycle sine wave and 300 to 20,000 cycle peaked audio signal. Bar generator. Cross hatch consists of a non-shifting interlocked vertical and horizontal pattern. Dot pattern for color TV adjusting. Marker generator includes 13 marker frequencies set by precise factory alignment.

An extremely stable instrument, easy to use. A comprehensive instruction book explains each operation. It is fully guaranteed. Housed in black case, size 10x8 1/2 x 4 3/4". Wt. 10 lbs.

No. 35A148. Complete, Ready to Use. **\$47.50**

## NEW MODEL 1076 B & K TELEVISION ANALYST COMPLETELY NEW ADVANCED DESIGN



Model 1076. Eliminates guesswork—no oscilloscope needed. Supplies test signal for each separate stage, you watch results on TV set itself. By point-to-point signal injection you can signal trace any stage throughout the video, audio and sweep sections of black and white or color TV sets. By use of generated test pattern you actually see the condition directly on the picture tube. Test points can be reached either on top or bottom of TV chassis. All signals are available from front panel of Analyst. In addition, it provides a switch-type tuner for channel selection. Negative bias supply, AGC Keying pulse and a high-level test signal to operate a picture tube direct.

Cabinet size, 12 1/2 x 12 x 8 1/2". Shpg. wt. 34 lbs. Supplied with standard test pattern, white dot, and white line crosshatch and color bar pattern slide transparencies, one clear acetate and slide holder, all necessary cables and leads. Operates on 110-120 volts 60 cycle AC.

No. 35A302. Complete Each. **\$293.95**

## B & K MODEL 160 TRANSISTOR TESTER FOR SERVICE—LAB AND INDUSTRIAL USE

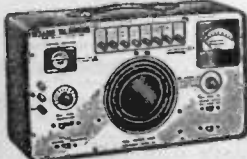


Model 160 is a professional quality tester for fast, accurate results at low cost. Reads true Beta directly within 3%. Uses dynamic small signal AC for gain test. Highly stable test conditions with actual operating circuits for ground emitter test. Complete reference chart. Socket and clip-in type connections. Tests power transistors and tetrodes.

Operates from AC power supply. The DC output may be used externally. Size 9x7x2 3/4". Wt. 4 1/2 lbs.

No. 35A303. Complete, ready to operate. **\$68.55**

## SPRAGUE TO-5 ANALYZER



Capacitance Bridge measures up to 2000 mfd. in five ranges. Special 1 mfd. to 100 mfd. range. Measures insulation resistance to 20,000 megohm on the meter. Leakage current, to 60 MA measured with any voltage up to 600 volts. Power factor up to 55%, three ranges. Has magic-eye bridge balance. Two-tone gray cabinet 8 7/8 x 14 5/8 x 6 1/8". Wt. 12 lbs.

No. 35A19. Net Each. **\$90.65**

## SUPERIOR 770A MULTI-METER HIGHLY VERSATILE POCKET-SIZED INSTRUMENT

"Full View" meter features 71% more scale area assuring accurate readings on this pocket sized instrument in a black bakelite case only 3 1/8 x 5 7/8 x 2 1/4" I Uses 850 Microampere Meter. Six AC voltage ranges 0-15/30/150/300/1500/3000 volts. Six DC voltage ranges 0-7.5/15/75/150/750/1500 volts. Two resistance ranges 0-10,000 ohms 0-1 megohm. Three DC current ranges 0-15/150 MA and 0-1.5 amperes. Three DB ranges -6 db to +18; +14 db to +38 db; +34 db to +58 db. Comes complete with self contained batteries, test leads and operating instructions. Wt. 3 1/2 lbs.

No. 35A247. Net Each. **\$15.53**

## MODEL 70 UTILITY TESTER ANYONE CAN USE THIS ALL-PURPOSE TESTER

An all around trouble shooter for servicing Radio-TV, electric motors, fans, appliances, refrigerators, ranges, thermostats, automotive electrical systems, etc. It measures AC or DC voltage 0-150 and 300 volts and 0-15 AC or DC current 0 to 1500 watts (with motor or appliance in operation). Has plug-in receptacle on front panel. Ohms resistance 0-1000, leakage indication 0-5 megohms. Booklet supplied shows step-by-step method for all tests. Size 3 1/8 x 5 7/8 x 2 1/4". Wt. 3 lbs.

No. 35A253. With Test Lead & Instructions. **\$15.53**

## PROFESSIONAL QUALITY PEAK-TO-PEAK VTVM MODEL 77—ADVANCED DESIGN, RELIABLE, ACCURATE AT A PRICE EVERYONE CAN AFFORD

Features 6" full view meter—burnout proof—1% zero temp. coefficient resistors—400 microampere meter. DC voltage ranges: 0-1500 in seven ranges, 11 megohm input, accurate zero center for FM and gated beam detector alignment.

AC voltage ranges: 0-1500 RMS in seven ranges. Peak-to-peak 0-2000 in six ranges. Frequency 30 cycles to 5 MC.

Ohmmeter ranges: 0-1000 megohm in seven ranges, accurate measurements as low as 2 ohm. Complete with instructions, service hints, probe and test leads—all contained with the 6 1/2" W. x 7 1/2" H. x 5" D. grey plastic instrument in handy carrying case. Operates on 110-120 V. 60 cycle AC. Wt. 4 lbs.

No. 35A580. Superior Model 77, Complete. Net Each. **\$41.65**

## B & K MODEL 360 ENTIRELY NEW MULTIMETER



Faster, easier, error-free readings with greater simplicity. Only the scale in use is visible—each scale moves into place when the range selector is set. Reads direct with no multiplying needed. Has knife edge pointer and is mirrored for added accuracy. Regular ranges: Six DC and AC volts 0-5000. AF (output) 4 ranges 0 to 300 volts. DC current 0-100 ua, 5 MA, 100 MA, 500 MA and 10 amps. Ohms resistance 4 ranges to 100 megohms.

Supplementary ranges: DC volts 0-250 mv. Capacitance 100 mfd to 4 mfd in 3 ranges. Audio power output (4 ohm load) 0-56 watts, 2 ranges—(8 ohm load) 0-28 watts, 2 ranges—(16 ohm load) 0-56 watts, 3 ranges. DB (1 mu 600 ohm load) -20 to +62 in 5 ranges. Peak-to-peak sine wave only 0-170-850 volts. Sensitivity 20,000 ohms per volt DC, 5000 AC. Accuracy +3% DC; 5% AC full scale. Meter is burnout proof. Size 6 1/4 x 8 3/8 x 4 1/4". Wt. 4 lbs. Includes angle stand, batteries and test leads.

No. 35B510. Complete, Net Each. **\$58.75**

## B & K FAMOUS DYNA-QUICK 600



A low cost, high quality Tube Checker. Tests the newest as well as all of the old commonly used tubes. Saves call backs. Its fast—reliable and very accurate. Tests novistors, new 10 pin tubes and 12 pin compactrons, regulators, thyristors, auto radio hybrid tubes, European hi-fi and many industrial types.

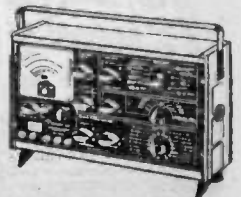
Check all shorts, grid emission, leakage and gas. Has exclusive adjustable grid current check with exceptional sensitivity over 100 megohms. Checks each section of tubes separately. Measures tube quality under actual operating conditions. Complete with tube listing in handy reference index. Leatherette covered case 8 1/2 x 11 x 4 1/2". Wt. 5 3/4 lbs.

No. 35B511. Net Each. **\$68.55**

## DOSS PIONEER MODEL 250 TESTER

A sensational new idea for horizontal sweep analysis. Saves time, isolates trouble quickly with positive accuracy by following a systematic 24 point test routine. Makes quantitative analysis of entire horizontal system, nothing is left to guesswork. Quick to set up—TV chassis need not be removed. Tester is plugged into horizontal damper and output tube sockets. By following the tester chart the defective parts are located quickly and positively. Cabinet size 12x8x4". Wt. 8 lbs. Complete with all adapter cables—nothing else to buy.

No. 35A110. Pioneer Model 250. **\$129.00**  
Each



USE B-A's PAY-AS-YOU-USE PLAN—  
NO DOWN PAYMENT—See Order Blank for Details

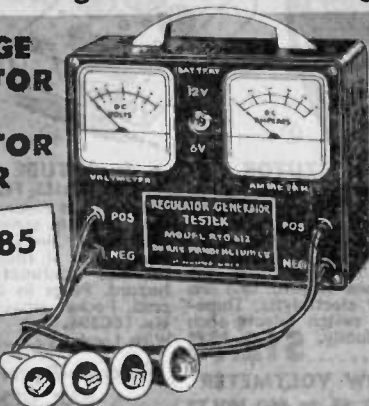
# Automotive Testers And Tools

Keep your car tuned to peak performance and maximum gasoline mileage....**SAVE MONEY!**

## VOLTAGE REGULATOR AND GENERATOR TESTER

**\$19<sup>85</sup>**

FOR ALL 6 AND 12 VOLT SYSTEMS

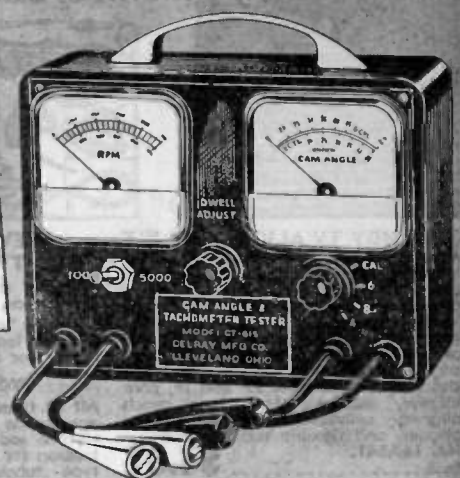


## DWELL ANGLE AND TACHOMETER TESTER

FAR BELOW USUAL COST FOR THIS QUALITY INSTRUMENT

**\$31<sup>95</sup>**

Provides two of the most important engine tests. For use on all 4-6 or 8 cylinder engines with either 6 or 12 volt ignition systems.



Accurately checks all parts of the charging system, positive or negative ground. Both voltage and current measurements can be made at once or separately. You can check generator output and adjust voltage regulator for the best engine performance. Has voltage selector switch for either 6 or 12 volt systems and a dual range voltmeter. Ammeter reads 0 to 50 amps. Comes with detailed instructions. All leads are attached. Insulated clips provide safe positive connections. Housed in high impact black phenolic case. Size 7x6x2 1/2". Wt. 3 lbs. Complete.

No. 35A245. Model RTG-612. Each.....**\$19.85**

Dwell cam angle tester has selector switch to set for number of cylinders and is accurately calibrated for each setting.

Engine dwell time adjustment is varied until the tester meter reading shows exact car manufacturers dwell angle spec. With the use of this tester anyone can make this highly important distributor adjustment.

Tachometer section has selector switch for

1000 or 5000 RPM. The RPM test gives positive proof of engine performance. Permits adjustment of the carburetor and automatic transmission.

Tester is of modern two meter design with transistor circuitry. Completely self contained with clip leads attached, ready to use anywhere. Size 7x6x2 1/2". Wt. 3 lbs. Complete with illustrated instructions

No. 35A244. Model CT615. Each.....**\$31.95**

### ① COMPRESSION TESTER

Testing for compression is considered the first step in engine tune-up. Model 35 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.

The instructions serve as a guide to proper testing procedure. 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. 29A413. Model 35 Complete.....**\$3.75**

### ② MOTOR GUIDE-VACUUM FUEL PUMP TESTER

Tests the engine fuel pump and vacuum system. A must for proper carburetor idle adjustment. The vacuum test determines condition of valves, valve springs, shows a choked muffler or leaky manifold. Also tests pressure and suction of fuel pump and all other vacuum operated devices on the car. 2 1/2" dial has four color zones for easy reading. Reads 0-30 vacuum and 0-7 lb. pressure. Furnished with bracket for dash mounting if desired. Complete with illustrated instructions. Wt. 1 lb.

No. 29A415. Model 40. Each.....**\$3.75**

### ③ IGNITION TIMING LIGHT

A quick accurate method for testing and adjusting 6, 12, or 24 volt ignition systems. Uses stroboscopic principle of light which "stops" timing, determining condition of ignition system, timing mark while engine runs. Use to adjust synchronize double points, test action of automatic spark advance, discover worn distributor shaft and many other troubles. Consists of special prefocused neon light, mounted in rugged plastic case with 3 ft. leads and insulated connectors. Complete ready to use with detailed instructions.

No. 29A414. Wt. 1 lb. Model 37. Each.....**\$3.25**

### ④ REMOTE STARTER SWITCH ELIMINATES NEED OF SECOND MAN WHEN TURNING ENGINE

The most useful of all automobile accessories. . . . Every mechanic needs one. With this unit connected in place the engine may be turned from outside the car. Ideal when making compression, fuel pump or electrical test or setting tappets and points. Consists of a heavy duty starter type push button switch, and extra long leads with insulated connecting clips. Wt. 1/2 lb. Complete with detailed instructions.

No. 29A412. Model 34. Each.....**\$2.59**



## REVERSIBLE RATCHET SOCKET WRENCH SETS



EXTRA STRONG PRECISION SOCKETS AND FITTINGS FOR DEPENDABLE SERVICE

American made by one of the most famous names in professional quality tools. Sockets are hot broached to provide smooth, thin walls of uniform thickness and accurate centered teeth. Both sets have square drives. Fully guaranteed, made of chrome alloy steel, chrome plated and polished.

### ① 16 PIECE 1/4-INCH DRIVE SOCKET SET

Versatile wrench set ideal for repair and adjustment of ignition systems, carburetors, and many other automotive and aviation repair jobs. Extremely handy in the repair of radios, TV's and home appliances. Includes: Eight 6-pt. sockets 3/8" to 7/8"; three 8-pt. sockets 1/4 to 3/8"; 2" extension, 6" extension; 6" swing head handle; reversible ratchet. Supplied in handy metal box. Shpg. wt. 2 lbs.

No. 16A554. Each.....**\$7.89**

### ② 15 PIECE 1/2-INCH DRIVE SOCKET SET

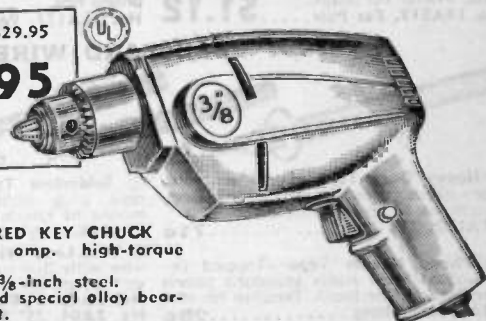
The most popular size sockets to quickly and easily perform almost any nut-driving job. Perfect for automotive, aircraft, industrial—accomplishes hundreds of jobs in the shop and on the farm. Includes: Twelve 12-pt. sockets 3/8" to 1 1/8"; 15" swing head handle; reversible ratchet. Supplied in handy metal box. Shpg. wt. 8 lbs.

No. 16A571 Each.....**\$14.79**

## NEVER BEFORE AT THIS LOW PRICE SPEEDWAY 3/8 IN. ELECTRIC DRILL

COMPARE AT \$29.95

**\$12<sup>95</sup>**



- POPULAR GEARED KEY CHUCK
- Powerful 2.5 amp. high-torque motor.
- Drills through 3/8-inch steel.
- Newly developed special alloy bearings throughout.

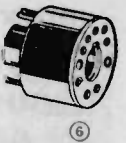
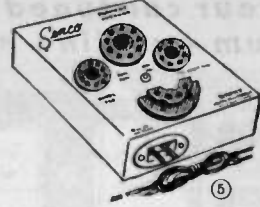
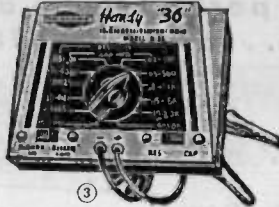
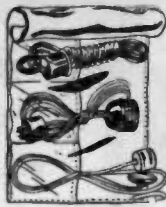
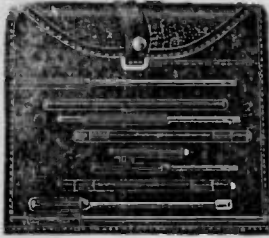
Professional quality and performance at a sensational low, low price! Provides the extra power and capacity for all around use in the shop, home, or farm. All steel precision hobbed gears and special alloy bearings assure long trouble-free life. Lock-in button on drill handle for continuous use. Die-cast aluminum housing has tough silicone bonded finish. Overall length 8 1/4". Net wt. 4 1/2 lbs. Shipped with 3-wire cord and adaptor for standard 2-prong AC outlet. Shpg. wt. 5 lbs.

No. 37A280. Special Each.....**\$12.95**



# Handy Tools, Test Leads

## POPULAR TOOL KITS AND AIDS USED IN TESTING AND SERVICING



**① HANDY TV ALIGNMENT KIT**  
A low cost kit that contains all the necessary aligning 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 tool, tool for RF and IF, core aligner, oscillator tool, long reach aligner, universal aligner, duplex aligner, and flexible tuning wand.  
No. 16A841. **\$4.67**  
Each

**② EVERY SHOP NEEDS THIS TV SERVICE CORD KIT**  
A really practical kit for every TV serviceman.  
Contains "most-needed" universal extension leads in a plastic roll-case handy for carrying on the job.  
**YOU GET ALL THIS**  
All of finest quality: 4 ft. high voltage anode extension lead with polystyrene socket; 4 ft. picture tube extension for electrostatic and magnetic type tubes with kinescope socket, CRT base and 6 leads; 5 ft. anode extension for metal tubes with snap connectors at each end of high voltage lead; yoke extension harness with 8 wires that can be wired as desired; and combination 6 ft. cheater cord for both standard and Zenith sets.  
Mfg. List price \$7.16.  
No. 14B285. **\$4.21**  
Complete Roll Set

**③ R-C SUBSTITUTOR**  
Provides 36 of the most often needed components for direct substitution: 12 one-watt 10% resistors from 10 to 5600 ohms; 12 half-watt 10% resistors from 10K ohms to 5.6 megs.; 10 capacitors from 100 mmfd. to 0.5 mfd., 600 volts; one 10 mfd. and one 40 mfd., 450 volt electrolytic. Three-pole, 12 position switch selects each component individually.  
No. 16B316. Net **\$12.75**

**⑤ TUBE CHECKER FOR SERIES FILAMENT TUBES**  
Locates bad receiving tubes and picture tubes in series filament TV and radio sets. Simply plug tubes in and neon glows if filament is OK. Leads provides continuity test, no shock hazard. Plugs in outlet with cheater cord. Pocket size—weighs only 6 oz.  
No. 16C296. **\$2.89**  
With Leads

**DELUXE TV ALIGNMENT 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.  
No. 16C725. **\$8.46**  
Net

**④ NEON GLOW VOLTMETER**  
**READS AC or DC 65 to 660 VOLTS**  
Just rotate the knob until glow lamp goes out and read voltage direct from the calibrated scale. A handy, portable instrument that can stand knocking around. Resistance approx. 1/2 megohm. Neon indicator good for 25,000 hours actual operation. Has 12" flexible leads and test prods.  
Bakelite case dia. 2"  
No. 17A572. Net Each **\$2.49**

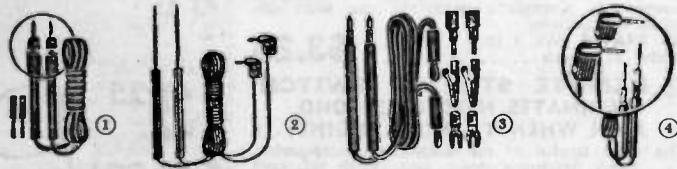
**⑥ Perma-Power HORIZONTAL BAR GENERATOR**  
Plugs in picture tube between base and socket and produces horizontal lines on any TV set for quick adjustment of vertical linearity, height and centering, also focus coil and yoke adjustments. Gas tube relaxation oscillator requires very little power and functions without a video signal being present.  
No. 20A844. Wt. 1 oz. **\$1.71**

**NEW DUAL TV BIAS SUPPLY**  
Instantly provides all TV biases recommended in photofact schematics and by all TV manufacturers. Perfect for AGC troubleshooting, TV alignment, instrument calibration, etc. May be used as a single 0-20 volts DC bias supply, or as two separate 0-20 volts DC bias supplies without interaction. Produces pure DC with less than one tenth of 1% ripple.  
No. 16A541 **\$12.75**  
Each

**④ NEON GLOW VOLTMETER**  
**READS AC or DC 65 to 660 VOLTS**  
Just rotate the knob until glow lamp goes out and read voltage direct from the calibrated scale. A handy, portable instrument that can stand knocking around. Resistance approx. 1/2 megohm. Neon indicator good for 25,000 hours actual operation. Has 12" flexible leads and test prods.  
Bakelite case dia. 2"  
No. 17A572. Net Each **\$2.49**

**SIGNAL TRACER TROUBLE SHOOTING AID**  
**SAVES TIME AND MONEY**  
Finds defective stage in a minute. Produces 1000 cycle signal for fast tracing of troubles in transistor radios, tube radios, hi-fi amplifiers, TV sets, etc. No need to unsolder transistors for checking. Size 3 1/2 x 4 1/2 x 1 3/4". Complete with batteries.  
No. 16A315. **\$9.75**  
Net Each

## TEST LEADS



Test Leads of Best Quality Flexible, Kinkless Wire 48" to 50" Long

**① PHONO NEEDLE TYPE**  
Replaceable phono needles one end, choice of below connectors other end. Slim 4" red and black handles.  
11A167. With Std Phone tips **85c**  
Pair  
11B51. With spade lugs, Pair. **85c**  
11B52. With alligator clips. Pr. **91c**

**② SLIM LINE TYPE**  
Long vinyl-insulated shaft for probing closely wired circuits without shorting. Red and black tenite handles. Phone tip plugs.  
No. 16A517. Per Pair **\$1.12**

**③ 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.  
No. 11A169. Complete Kit. **\$1.76**

**④ WESTON TYPE**  
Well made for precision tests. Red and Black 4" long pencil type plastic handles, 48" lead, malded finger grip phone tips.  
No. 11A171. Per Pair **\$1.32**

## TEST PRODS AND WIRE



**① Heavy Duty Type**—For high voltage needs. Has finger guard ring, minimum of metal exposed.  
11A178. 5 3/4" long **71c**

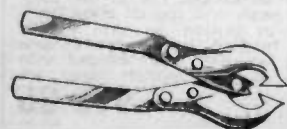
**③ Phono Needle Type**—Tapped removable chuck holds standard phono needles. Red or Black Tenolite handle.  
11A173. 5" long **29c**

**② Solderless Type**—Tapped Removable plug holds wire securely by means of knurled collar. Red or Black.  
11A176. 5 1/2" long **29c**

**④ Test Lead Wire**—Non-kink flexible wire with live rubber insulation. 5000 volt breakdown.  
No. 2A65. 5' Red and 5' Black. **47c**  
No. 2A64. 25' Red or Black **81c**

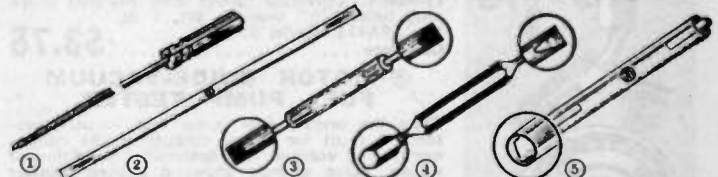
## NEW GC C-RING TOOL

EVERY SHOP NEEDS THIS TIME-SAVING TOOL!



Special tool removes and inserts "C" washers and retaining rings on volume controls, turntables, recorders, switches, radia and TV sets, etc. Made of high grade steel, nickle plated.  
No. 11B56. Each **\$1.84**

## MOST POPULAR GC ALIGNMENT TOOLS



**① Narrow Blade "Fibreglos" screwdriver** completely insulated. Gives full protection when working on "hot" chassis. Gets into deep inaccessible places.  
16B868. 7" L x 3/8" dia. Ea. **\$0.73**

**② Long Reach Alignment Screwdrivers.** Made of bone fibre, extra thin 1/8" dia. blades for those extra hard to reach places. Screwdriver tips both ends—can be re-ground.  
16B870. 12" L x 1/8" dia. Ea. **39c**  
11B12. 16" L x 1/8" dia. Ea. **49c**

**③ K-Tran and IF Tool.** Made of low capacitance Butyrate material. Screwdriver tip both ends.  
16B746. 6 1/4" L x 3/8" dia. Ea. **76c**

**④ Malded Double Ender.** Nylon for Zenith TV and others. One end has small screwdriver tip. 5 1/2" L x .100" dia. wrench, .109" dia. driver.  
No. 16B751. Net Each **36c**

**⑤ Low Loss Clear Plastic Tool.** Handy to align and adjust TV sets, radio sets, etc. 5" L x 3/8" dia. Recessed blade one end, extended blade other.  
No. 11A319. Net Each **35c**

**TV & FM TUNING TOOL**  
Fine recessed screwdriver tip for TV and FM adjustments. No need to remove chassis from set. Made of plastic, 2 1/2" long, 3/16" dia.  
No. 11B58. Each **37c**

**LOW COST ALIGNMENT TOOL SET**  
Fountain pen size when closed! Has 1/4" and 3/8" nut wrenches, small blade screwdriver, and full size screwdriver. Finest bone-fibre, metal ends for longer wear.  
No. 11A156. Per Set **\$1.15**

**Nylon Hex Wrench**  
Has hex wrench on both ends, one end is undercut so it will reach bottom slugs in iron cores. 11" L x .10" across flats of both hex.  
No. 16C727. Net Each **62c**

**TWEEZERS**  
(A) **7" Long, curved smooth point tweezers.** No. 11A307. Each **65c**  
(B) **4 3/4" Long Slide Lock, blunt smooth point tweezers, plated.** No. 11B162. Each **59c**  
(C) **5 1/2" Long Self-Closing, blunt serrated points, plated.** No. 11B163. Each **49c**  
(D) **4 3/4" Long common soldering tweezers, plain steel.** No. 11A306. Each **43c**



**\$735**

### CHASSIS CRADLE

FOR SERVICING CHANGERS, RADIO & TV CHASSIS, AMPLIFIERS, ETC.

Rugged, non-wobble, steel service stand saves time, speeds work, prevents damage to equipment. 360° rotating clamps hold work secure—allow it to be turned to any desired position and locked in that position for inspection and repair. Fully braced uprights are fully adjustable—holds units up to 20" wide. Stand can be quickly taken apart for use on service calls. Size 24" L. x 14" H. with 1 1/2" cross supports. Shpg. wt. 7 1/2 lbs.

No. 33C12. NET EACH ... **\$7.35**

**\$514**



### TV SERVICE MIRROR FOR VIEWING SCREEN WHILE SERVICING SET

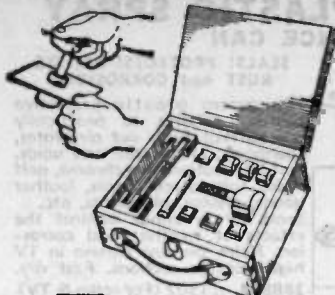
Just the thing for viewing the TV screen while adjusting controls or servicing in rear of set. Good quality 12x10" glass mirror does not distort image. Telescoping stand adjusts to the necessary height—collapses for easy carrying when making service calls. Shpg. wt. 4 lbs.

No. 35A85. NET EACH ... **\$5.14**

### MIRROR ONLY FOR BENCH USE

12x10" glass mirror in chrome frame and with upright bracket.

No. 35A88. Net Each ... **\$2.91**



**\$7.95**

COMPARE AT \$14.00

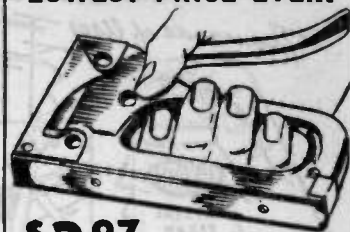
### CHASSIS PUNCH SET

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 5/8", 3/4", 1", 1 1/4" and 1 1/2". Complete with punches, dies, T-handle, 1/8" to 1/2" tapered burring reamer, and handsome finished wooden case. Quality import. Shpg. wt. 3 lbs.

No. 17A626. Special Per Set ... **\$7.95**

### ARROW GUN TACKER LOWEST PRICE EVER!



**\$3.97**

### JUST A SQUEEZE OF THE HAND DRIVES STAPLES INTO WORK

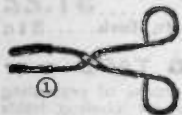
Now at a price everyone can afford—a fast, easy operating gun tacker. Does those clumsy, rough-to-handle tacking jobs easily and rapidly. Perfect for screening, upholstery, shelving, linings and 1001 other jobs around home and shop. Fits hand comfortably. Tacker locks to fit in pocket and prevent accidental firing. Built-in staple extractor at rear of base. Takes 100 JT-1/4" or 5/8" staples at one loading.

No. 22B301. **\$3.97**

JT-21 Gun Tacker. Spec. Ea. **\$3.97**

STAPLES FOR MODEL JT-21 GUN 22B302—JT-1/4". 22B303—JT-5/16" CHOICE **59c** 5000 For ... **\$2.19**

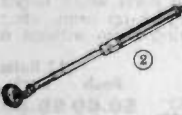
### POPULAR SERVICE SHOP TOOLS



#### ① TUBE AND PARTS EXTRACTOR

For extracting tubes and other parts from deep inaccessible places. Spring steel rubber cushioned prong.

No. 16B55. EACH ... **96c**

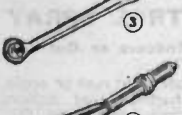


#### ② G-C ILLUMINATED INSPECTION MIRROR

Gets into those dark, hard-to-get-at places. Completely insulated. 7/8" dia. adjustable mirror fastened to 6" transparent lucite rod. Plastic handle holds 2 penlight batteries. Overall lgh. 12 1/4". With bulb.

No. 16A950. (Less Batteries). Each ... **\$1.98**

No. 21A3. Batteries for above. Each ... **14c**



#### ③ G-C PLASTIC INSPECTION MIRROR

Just the thing for inspecting coils, parts, solder connections, etc. Completely insulated—No danger of shock or shorting.

No. 16B560. Each ... **38c**



#### ④ BULB REMOVER

Removes pilot bulbs easily from awkward places.

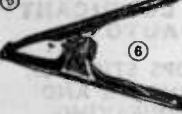
No. 16B561. EACH ... **26c**



#### ⑤ FOLDING POCKET MAGNIFIER

1 3/4" diameter lens of 2 1/2 Power in moulded non-inflammable frame which folds into stiff leather case to protect lens.

No. 11A308. Your Cost, Each ... **87c**



#### ⑥ JIFFY SPRING CLAMPS

Hundreds of uses such as clamping wood strips together for gluing, metal parts for soldering or welding, etc. Made of heavy gauge steel with powerful tension spring. Nickel plated.

No. 11C13. 1" Opening. Each ... **29c**

No. 11C15. 2" Opening. Each ... **45c**

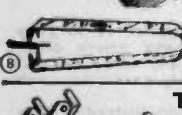
No. 11C18. 3" Opening. Each ... **75c**



#### ⑦ FLEXIBLE SCREW HOLDING 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. 12" long.

No. 11C2. Net Each ... **96c**



#### ⑧ HANDY POCKET STRIPPER

Strips wire quickly, cleanly. Handy tool to carry in pocket or tool box or have on work bench

No. 18A422. Each ... **24c**



#### TV CHASSIS SERVICE HANDLES

Handy for Carrying TV Chassis

Smooth, comfortable, tubular steel handles lock on to chassis as it is lifted—will not slip off until released. Saves abuse to fingers from sharp chassis edges. Every serviceman needs a pair

No. 16B932. Per Pair ... **\$2.09**

#### HANDY 4-IN-1 TOOL

- Pin Straightener
- Tube Puller
- Tube Tapper

For both 7 and 9 pin miniature tubes. Extremely well made of top quality live rubber with aligning dies of specially hardened wear-resistant nylon bakelite. Costs 1/4 the price of the 4 tools it replaces.

16B64. Special, Ea. ... **90c**



### POPULAR G-C SERVICE AIDS



#### ① TUBE LIFTER

Lifts tubes, vibrators, plugs and similar type parts easily and quickly. Simply insert tool under base of part and lift. Right angle end is for compact auto radios and for pulling knobs. Made of stainless steel.

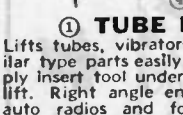
No. 16A832. EACH ... **29c**



#### ② SOLDERING AID

Soldering made easier ... fast! Special stainless steel angled tip acts as probe—clears lug of solder, pushes other wire aside. Fork tip on other end guides and holds wire when soldering in tight spots.

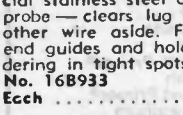
No. 16B933. EACH ... **98c**



#### ③ SOLDERING AID

Handy new tool with a stiff wire brush on one end for cleaning wires, terminal strips, lugs, etc., before soldering, and a fork-tip on the other end for guiding and holding wires while soldering

No. 11B165. Net Each ... **98c**



#### ④ LONG NOSE CLAMP PLIERS

Like an extra hand. Spring tension keeps jaws closed until handles are squeezed. Handy for installing small parts in hard-to-get-at spots.

No. 16B928. Straight Nose ... **73c**

No. 16B929. Curved Nose ... **80c**

#### 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.

11A84. Each ... **44c**



#### ⑤ TEST ADAPTERS

Handy for checking circuit voltages, etc., without removing chassis, disturbing wiring or parts. Just replace tube with appropriate test adapter—plug tube into adapter. Presto! all socket connections are topside—within easy reach of a test prod. Low loss phenolic construction with high insulation resistance and high voltage breakdown.

16B736. 7-pin Miniature. EACH ... **\$1.62**

16B752. 8-Pin Octal. EACH ... **\$1.54**

16B773. 9-Pin Miniature. EACH ... **\$1.83**

No. 16B930. TV CRT. EACH ... **\$1.91**

No. 16B931. Kit of 4 above put up in convenient container. **\$6.84**

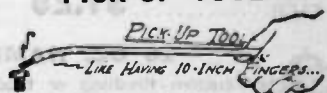
Complete

#### ⑥ MINIATURE TUBE PIN STRAIGHTENER

Straightening Pins on both miniature seven and nine Pin Tubes is safe, fast, and economical with this latest handy shop tool ... Perfect for your bench, field kit, tube tester and pocket. Made of life-time, wear-and-corrosion resistant steel dies with pin-circle holes drilled to close tolerances.

No. 16B837. NET EACH ... **\$1.24**

#### 10 1/2-INCH MAGNETIC PICK-UP TOOL



Reaches what your hands can't grasp. Use for picking up small parts from chassis or other hard to reach places. With permanent Alnico magnet. 10 1/2" overall length.

No. 16A854. Each ... **35c**



# Paint and Insulating Materials

## KRYLON CLEAR PLASTIC SPRAY GIANT 16-OUNCE CAN

Thousands of Uses



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, blueprints, etc. Seals TV antennas against the effects of weather and corrosion. Helps prevent corona in TV high voltage sections. Fast dry. 20B863. #1302 (For radio & TV) 11A702. #1303 (For Graphic Arts)

Your Choice.....16 oz. can.  
Mfg. list \$1.95.  
1 to 11 12-47 48-95 96 up  
Each Each Each Each  
**1.27 1.17 1.14 1.10**

### OTHER KRYLON SPRAYS FOR EVERY NEED

Stk. No.	Mfg. No.	Description	Can Size	Mfg. List	Net Ea.
11A732	1306	Workable Fixatif	16 Oz.	\$1.95	\$1.27
11A733	1323	Spray Cleaner & DeGreaser	16 Oz.	1.69	1.11
11A734	1324	Penetrating Oil	16 Oz.	1.69	1.11
11A736	1317	Rust Magic Metal Primer	16 Oz.	1.79	1.17
11A737	1310	Dulling Spray	16 Oz.	1.95	1.27
11A738	9100	Foaming Window Spray	15 Oz.	.79	.52
11B745	1325	Silicone Lubricant	16 Oz.	1.95	1.27
11B746	1326	Cleaner Lubricant	16 Oz.	1.95	1.27

**Fluorescent Spray Paints.** Brilliant colors that glow in daylight. Widely used in industry, aviation, military, business and the home because of their high visual impact. Applies to wood, glass, metal, paper, cloth, etc. **Specify color:** Red-Orange, Lemon-Yellow, Green or Sunset Gold. Mfg. List \$2.79. No. 11A739. 16 Oz. Can, Each **\$1.82**

## SPRAY TOP-QUALITY ENAMEL PAINT DIRECT FROM CAN

- NO BRUSH! • NO MIXING!
- NO MUSS OR WASTE!

### GIANT ECONOMY SIZE 16-OZ. DISPENSER

NEW COLORS—  
NEW LACQUER  
FINISHES MFG. LIST \$1.79 **\$1.29**

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. can covers approx. 200 sq. ft. All colors with asterisk\* have new Rustcor rust preventative. Easy to follow directions on can. Mfg. List \$1.79. **BUY SEVERAL CANS NOW—KEEP ON HAND FOR USE—WON'T SPOIL**



11A640—Chrome Aluminum	11A650—Gloss Black*
11A642—Battleship Grey*	11A651—Appliance White
11A643—Garden Green*	11A652—Clear Plastic
11A644—Medium Blue*	11A655—Zinc Chromate Primer*
11A645—Pink*	11A628—Clear Varnish
11A646—Sky Blue*	11A624—Structural Red Primer*
11A647—Chinese Red*	11A258—Hi-Temp Aluminum
11A648—Dove Grey*	11A259—Grey All-Purpose Primer*
11A253—Ivory*	11A656—Mist Green*
11A255—Chocolate Brown*	11A266—Cantaloupe*
11A262—Lemon Peel*	11A267—Tangerine Red*
11A649—Gloss White*	11A269—Pastel Citron*

### SPRAY LACQUER FINISHES

11A276—Gloss Black	11A280—Gloss Red
11A277—Gloss White	11A281—Gloss Blue
11A278—Aluminum	11A282—Gloss Green
11A279—Flat Black	11A283—Gloss Yellow

### WROUGHT IRON COLORS

11A653—Flat Black	11A616—Cloud Grey
11A654—Flat White	11A617—Saddle Tan

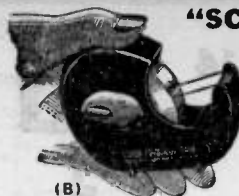
### NEW PLATER'S FINISH METALLICS

11B632—Statutory Bronze	11A657—Brass
11B633—Golden Lustre	11A658—Platinum Silver
11A641—Coppertone	11A659—Antique Gold

CHOICE **\$1.29** 12 CANS (colors can be assorted) EACH **\$1.08**

### 16 OZ. 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. Specify color. Silver-Grey, Gold, Copper, Green, Dark-Grey or Blue. Mfg. list \$1.89. 12 @ **\$1.39** Each **\$1.26**



## "SCOTCH" CELLOPHANE TAPE



"Scotch" Transparent Tape —sticks to anything. For practically any sealing need plus numerous mending jobs such as torn speaker cones, anchoring coils, etc.

(A) 1296 Inch Roll 1/2" Wide, fits the handy dispenser illustrated. 11A580. Per Roll... <b>68c</b>	12 Lots, Each... <b>62c</b>	2592 Inch Roll 1/2" Wide. 11A582. Each... <b>92c</b>	12 Lots, Each... <b>83c</b>
(B) Dispenser. No. 11A581. Each... <b>29c</b>		2592 Inch Roll 3/4" Wide. 11A583. Each... <b>\$1.34</b>	12 Lots, Each... <b>\$1.21</b>

## SCOTCH VINYL PLASTIC ELECTRICAL TAPE

SUPER-TOUGH AND STRETCHY—THIS FAMOUS MINNESOTA-MINING PRODUCT CARRIES FULL U/L 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 mils thick. Dielectric strength 10,000 V. breakdown.

No. 11A584. 66 Ft. 3/4" Wide. Roll, Each... <b>\$1.50</b>	12 Rolls Each... <b>\$1.35</b>
11A585. 20 Ft. x 3/4" Wide Roll... <b>55c</b>	11A586. 3/8" x 20 Ft. Roll... <b>35c</b>

## "DEVOSEAL" POLYETHYLENE ELECTRICAL TAPE

\*MEETS MILITARY SPECIFICATIONS MIL-1-15126C

\*FIVE COLORS: Black, Red, Blue, Yellow or White. 12,500 volt breakdown; insulation resistance (50 million megohms); electrolytic corrosion (less than .02 micromicromhos); lowest incidence of coning and remains soft and pliable in extremely low temperatures. Specify Color †Pkg. 1 roll per tin.

†No. 11A502. 66 ft., 3/4" wide. Each... <b>\$1.36</b>	12 Lots, Each... <b>\$1.22</b>
No. 11A503. 15 ft., 1/2" wide. Each... <b>34c</b>	12 Lots, Each... <b>31c</b>

## "SCOTCH" MULTI-USE MASKING TAPE

A handy aid for many uses in addition to its original purpose of protecting areas where painting isn't desired. For example: Write-on for labeling, holds parts together while soldering, temporarily secures moving parts which might become damaged during transportation, such as phono pick-up arms, etc.; for marking notes on factory packed boxes, then removing them without a trace, etc.

Stk. No.	Size	Each	Each	Stk. No.	Size	Each	Each
11A540.	3/4"x300"	\$0.35	\$0.32	11A542.	1 1/2"x300"	\$0.69	\$0.63
11A541.	3/4"x90 Ft.	.98	.89	11A543.	3/4"x60 Yds.	1.69	1.53



## 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, alkalies, and petroleum derivatives. No. 11A379. 6 Oz. Can... **99c**

## RUST-KON-TROL SPRAY

Stops Rust Indoors or Out



Penetrates old rust or scale, stops further rust action. Withstands heat up to 160° F. Prevents rust on tools, machinery, storage bins and all other exposed metal surfaces subject to rust. Sprays on wet or dry surfaces. Clear—will not stain.

11A625. Mfg. List \$1.85. 11 Oz. Can, Each... **\$1.27**



## NEW "MISTER EASE" MAGIC All-Purpose SILICONE LUBRICANT FOR • HOME • SHOP • AUTO

MFG. LIST \$1.39

**99c**



### STOPS STICKING, BINDING AND SQUEAKING

- Lubricates
- Waterproofs
- Preserves
- Protects

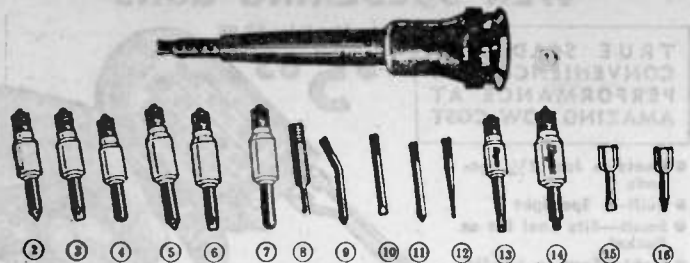
The most fantastic lubricant we have ever seen! Lubricates to easy operation bearing shafts, windows—practically anything where other lubricants have failed to penetrate. Easy to use—simply spray on and "Mister Ease" does the work for you. Oilless, dripless, greaseless—will not gum, melt or freeze.

Keep a can at home and shop. Magic silicone formula instantly frees sticky stubborn doors, windows and drawers—lubricates home workshop equipment, garage doors, toys, lawn mowers, etc. Carry a can in auto and boat. Lubricates, waterproofs, weatherproofs, preserves and protects... rubber, metal, glass, leather, fibre, wood and canvas. Stops annoying body squeaks and squeaky doors—lubricates fan belts, pedal shafts, speedometer cables, etc. Prevents freezing of ice on door locks, trunk lids and handles. Protects chrome. Prevents rust, mildew and corrosion.

No. 11A796. 6 oz. Can. Mfg. List \$1.39 **99c**  
Net Each...  
No. 11A795. 16 oz. Can. Mfg. list \$2.50. Net Each... **\$1.99**

# Ungar Soldering Pencils & Tips

## UNGAR SOLDERING PENCIL & TIPS



### ① NEW IMPROVED MODEL 776 SOLDERING PENCIL

New Ungar "Insul-cool handle" ruggedized for production line soldering. Features stainless steel deflector for lowest 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 with molded cord protector.

11A247, Type 776 **\$1.18** 10-Lots, **98c** 50 Lots, **90c**  
(Less Tip) Each... Each... Each...

### TIPS WITH SELF-CONTAINED ELEMENTS

#### 500 STANDARD SERIES—23½ WATTS

For instrument repair, and general use. Tips of new UC47 copper.

Stk. No.	Fig.	Type	Tip	Size	Temp. °F	Each	10 Ea.	50 Ea.
11A60	(13)	533	Chisel	1½" Lx ¼" W	700	\$0.98	\$0.81	\$0.75
11A248	(2)	536	Pyramid	1½" Lx ¼" dia.	700	.98	.81	.75
11A252	(3)	539	Chisel	1½" Lx ⅜" W	700	.98	.81	.75

#### 1200 HI-HEAT SERIES—37½ WATTS

For general service and light to medium production line service. Tip of new UC47 copper.

Stk. No.	Fig.	Type	Tip	Size	Temp. °F	Each	10 Ea.	50 Ea.
11A61	(13)	1233	Chisel	1½" Lx ¼" W	800	1.18	.98	.90
11A244	(13)	1333*	Chisel	1½" Lx ¼" W	800	1.18	.98	.90
11B226	(5)	1236*	Pyramid	1½" Lx ¼" dia.	800	1.18	.98	.90
11B235	(6)	1239*	Chisel	1½" Lx ⅜" W	800	1.18	.98	.90

\*Solid iron for heavy duty production line use.

#### 4000 SUPER HI-HEAT SERIES—47½ WATTS

For all operations formerly requiring a 150 watt iron. Tips of new UC47 copper plated with iron and pure silver.

Stk. No.	Fig.	Type	Tip	Size	Temp. °F	Each	10 Ea.	50 Ea.
11A367	(13)	4033	Chisel	1½" Lx ¼" W	1000	2.35	1.95	1.80
11A368	(5)	4036	Pyramid	1½" Lx ¼" dia.	1000	2.35	1.95	1.80
11A369	(6)	4039	Heavy Chisel	1½" Lx ⅜" W	1000	2.35	1.95	1.80

### HEATING UNITS ONLY

#### NEW THREAD ON HEATING UNITS

Use with thread on Mini-tips listed below.

Stk. No.	Fig.	Type	Wattage	Temp. to Tip	Each	10 Ea.	50 Ea.
11A62	(14)	4037	47½	900°	\$2.35	\$1.95	\$1.80
11A63	(14)	1237	37½	800°	1.18	.98	.90

#### THREAD-IN HEATING UNITS

Use with Series 300 Elkaloy and Iron Plated Tiplets listed below.

Stk. No.	Fig.	Type	Wattage	Temp. to Tip	Each	10 Ea.	50 Ea.
11B32	(4)	535	23½	650°	\$0.98	\$0.81	\$0.75
11A324	(7)	1235	37½	750°	1.18	.98	.90
11A439	(7)	4035	47½	850°	2.35	1.95	1.80

Hi-heat thread-in unit for use with Series 800 Tiplets.

Stk. No.	Fig.	Type	Wattage	Temp. to Tip	Each	10 Ea.	50 Ea.
11A37	(7)	4045	47½	850°	2.35	1.95	1.80

#### NEW THREAD ON MINI-TIPS FOR 4037 & 1237 HEATING UNITS

Stk. No.	Fig.	Type	Description	Each	10 Ea.	50 Ea.
11A66	(16)	PL111*	¾" Long ⅛" Pencil	\$0.59	\$0.49	\$0.45
11A67	(16)	111	¾" Long ⅛" Pencil	.20	.17	.15
11A79	(15)	PL113*	¾" Long ⅛" Chisel	.59	.49	.45
11A81	(15)	113	¾" Long ⅛" Chisel	.20	.17	.15

#### NO. 300 TIPPLETS FOR 535, 1235, 4035 HEATING UNITS

Stk. No.	Fig.	Type	Description	Each	10 Ea.	50 Ea.
11B53	(11)	PL351*	⅜" Pencil Tiptip	\$0.47	\$0.39	\$0.36
11B24	(11)	331	⅜" Pencil Tiptip	.16	.13	.12
11B54	(9)	PL332*	⅜" Offset Pencil Tiptip	.47	.39	.36
11B23	(9)	332	⅜" Pencil, 30° Offset	.16	.13	.12
11B59	(10)	PL333*	⅜" Chisel Tiptip	.47	.39	.36
11B22	(10)	333	⅜" Chisel Tiptip	.16	.13	.12
11A440	(12)	PL338*	⅜" Tapered Needle	.47	.39	.36
11A64	(8)	PL340*	Micro-Needle	.47	.39	.36

#### EXTRA LONG TIPPLETS

(Designed for use with 4045 heating unit only)

Stk. No.	Fig.	Type	Description	Each	10 Ea.	50 Ea.
11A34	(11)	PL823*	⅜" Pyramid	\$0.47	\$0.39	\$0.36
11A72	(11)	823	⅜" Pyramid	.16	.13	.12
11A100	(10)	PL824*	⅜" Chisel	.47	.39	.36
11A102	(10)	824	⅜" Chisel	.16	.13	.12
11A436	(10)	PL833*	Straight 2"x ⅜" Chisel	.78	.65	.60
11A437	(9)	PL834*	45° Offset 2"x ⅜" Chisel	.78	.65	.60

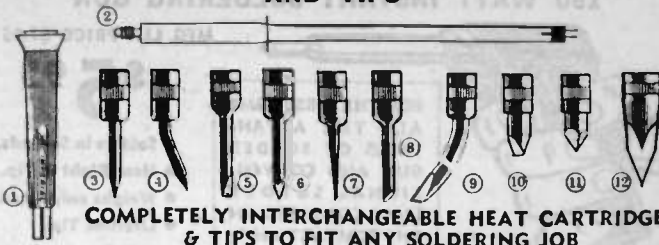
### #8000 SOLDERING IRON HOLDER

A unique soldering iron holder designed to provide safer and more efficient production soldering. 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. Mounts quickly to top, side, or underside of workbench. Shpg. wt. 1 lb. **\$1.57** 10 Ea. **\$1.30** 50 Ea. **\$1.20**  
11A240 Ea. . . . .

#### #400 KLEEN-TIP

Double life of soldering tips with new tip cleaner. Consists of special sponge, tray and bracket for fastening to work bench. **98c** 10 Ea. **81c** 50 Ea. **75c**  
No. 11A17. Ea. . . . .  
#455 Refill Sponges for above. **39c** 10 Pkg. **33c** 50 Pkg. **30c**  
No. 11A20. Pkg. of 2. Net Ea. . . . .

## NEW 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, trouble-free operation. Complete unit weighs less than 5 ounces. Handles and heat cartridges are color keyed for instant identification.

#### 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". Specify color: Turquoise, Beige or Ivory. (Handle only, less cord). **\$1.25** 10 @ **\$1.07** 100 @ **96c**  
No. 11A802, Type 6100, Ea. . . . .

### INTERCHANGEABLE PLUG & CORD SETS

Select the cord that fits your needs, plug on to Perma-Cool Handle. 6 ft. 18 gauge flexible stranded wire, polyvinyl chloride insulation on both wire and female connector. Specify color: Turquoise, Beige or Ivory.

Stk. No.	Type	Description	Each	10 Ea.	100 Ea.
11A803	6102	2-Wire cord W/Plug	\$1.25	\$1.07	\$0.96
11A804	6103	3-Wire Nema Cord W/Plug	2.04	1.73	1.56
11A805	6104	3-Wire Cord W/Stripped Ends	1.88	1.60	1.44

### ② INTERCHANGEABLE HEAT CARTRIDGES

New element winding principle provides reduced watt density, insures longer life. Heating element of 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 has color-keyed band for instant wattage identification. 6200 has red band, 6201 blue band, 6202 green band.

Stk. No.	Type	Wattage	Temp. To Tip	Each	10 Ea.	100 Ea.
11A806	6200	40	950°	\$3.08	\$2.60	\$2.34
11A807	6201	30	850°	3.08	2.60	2.34
11A808	6202	25	800°	3.08	2.60	2.34

### INTERCHANGEABLE THREAD-ON "MINI-TIPS"

All are of Tellurium Copper except those marked \* which are iron clad, 24 K gold plated.

Stk. No.	Fig.	Type	Description	Each	10 Ea.	100 Ea.
11A811	(3)	6312	¾" long, ⅛" pencil	.27	.23	.21
11A812	(3)	6313*	¾" long, ⅛" pencil	.78	.67	.60
11A813	(4)	6315	¾" long, ⅛" offset pencil	.27	.23	.21
11A815	(5)	6318	¾" long, ⅛" taper chisel	.27	.23	.21
11A816	(5)	6319*	¾" long, ⅛" taper chisel	.78	.67	.60
11A817	(6)	6324	¾" long, ⅛" taper pyramid	.27	.23	.21
11A818	(7)	6333*	¾" long, ⅛" needle	.78	.67	.60
11A821	(8)	6335	¾" long, ⅛" spade	.27	.23	.21
11A831	(5)	6381	1½" long, ⅜" taper chisel	.27	.23	.21
11A833	(9)	6383	1½" long, ⅜" offset chisel	.27	.23	.21
11A837	(10)	6403	¾" long, ⅜" short chisel	.27	.23	.21
11A839	(11)	6407	¾" long, ⅜" short pyramid	.27	.23	.21
11A841	(5)	6423	¾" long, ⅜" taper chisel	.27	.23	.21
11A848	(12)	6477	¾" long, ⅜" taper pyramid	.27	.23	.21

### DE-SOLDERING TIPPLETS FOR USE WITH 4045 HEATING UNIT



Ungar De-Soldering Tiplets remove solder on all terminals of a component simultaneously. Avoids lead breaking, wire shorting and printed board rupturing.

Stk. No.	Fig.	Type	Description	Each	10 Ea.	50 Ea.
11A108	(1)	862	⅜" Dia. Offset Slotted	\$0.59	\$0.49	\$0.45
11A438	(2)	857	⅜" Lx ⅜" Dia. Slotted	.59	.49	.45
11A127	(3)	863	Cube	.59	.49	.45
11A139	(4)	856	⅜" Cup	.59	.49	.45
11A141	(4)	855	⅜" Cup	.59	.49	.45
11A142	(4)	854	1" Cup	.59	.49	.45
11A151	(5)	861	Triangle	.59	.49	.45
11A109	(6)	858	Bar	.59	.49	.45

### UNGAR No. 270 DE-SOLDERING KIT

Tedious printed circuit repairs now made easily and safely. Includes Ungar handle, super heat 47½ watt unit, slotted tiptip, and rectangular de-soldering tiptip 1½x ⅜" for removing resistors and capacitors, or other components within this size. De-soldering tiplets 1", ¾" and ⅝" diameter for removing 9, 7, and 5 pin tube socket respectively. All in metal case for easy storing. Wt. 1 lb. **\$5.24** Each. **\$4.76** Six. **\$5.24** Each.





# Soldering Guns & Irons, Blow Torch

## HEXACON "FEATHER-WEIGHT" POWER-PACKED 150 WATT INSTANT SOLDERING GUN

MFG. LIST PRICE \$7.95

**\$5.95**

FOR THE FIRST TIME ALL THE ADVANTAGES OF SOLDER GUN AND CONVENTIONAL SOLDER IRON COMBINED IN ONE COMPACT UNIT.

- Solders In Seconds.
- Heat Right In Tip.
- Weighs only 8 ozs.
- Lifetime Tip.
- U/L Approved.

New unique element design eliminates need of bulky transformer or fragile thermostat . . . provides a compact, lightweight, quick-heating tool perfect for performing all types of soldering work—light or heavy. Ideally suited for serviceman, industrial, hobbyist, or for general home use.

Trigger control gives any degree of heat required without overheating. Lifetime 1/4" tip requires no maintenance, cannot bend or wear. Permits longer reach in tight places. Prefocus lamp in shock-resistant plastic handle beams light directly on work. Operates directly from 110-120 volt AC or DC. No. 37B204. Model G14.

Shpg. wt. 1 1/4 lbs. Net Each. **\$5.95** 3 Lots, Each. **\$5.30**  
 Accessory Tips. Fit over the 1/4" tip supplied with gun.  
 No. 16B494. Cutting Tip. Ea. .42c No. 16B496. Smoothing Tip. Ea. .42c  
 REPLACEMENT HEATER-TIP ASSEMBLY FOR MODEL G14  
 16B489. With 1/4" tip. Each. **\$2.00** 16B491. With 1/8" tip. Each. **\$2.80**

## "AMERICAN BEAUTY" IRONS



Exceptionally dependable irons widely used by industrial and servicemen for continuous duty work. All are supplied with 6 ft. cord and stand.

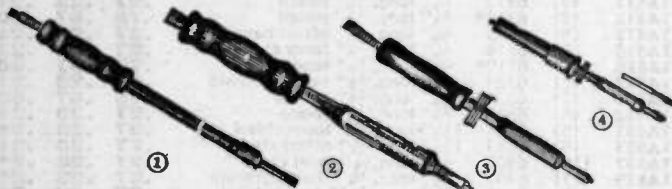
Stk. No.	Model	Heat	Lgth.	Tip	Wt.	Net Each
① 22B168	3118SCP	30-Watt	8"	1/2"	6 Oz.	<b>\$4.82</b>
② 22C186	3114	60-Watt	9"	1/2"	8 Oz.	<b>6.85</b>
③ 22B166	3128	60-Watt	12 1/4"	1/2"	1 Lb.	<b>5.04</b>
④ 22B165	3138	100-Watt	12 1/2"	3/8"	2 Lb.	<b>7.70</b>
⑤ 22B169	3158	200-Watt	13 3/8"	5/8"	3 Lb.	<b>9.24</b>

### EXTRA TIPS

11A365. For 3118SCP. Each. **18c** 11A243. For 3138. Each. **.46c**  
 11B245. For 3128, 3114. Each. **33c** 11B39. For 3158. Each. **\$1.08**

③ TEMPERATURE REGULATOR STAND—MODEL 475  
 Prevents overheating. Maintains iron at proper soldering temperature at all times. For 110 V. AC. 100-660 watt capacity. Wt. 2 1/2 lbs.  
 No. 22B167. Net Each. **\$6.61**

## DRAKE (SHOPMATE) SOLDERING IRONS



The accepted standard for industry, school and home shop use. All have 6 ft. UL cord and plug for 110 V. AC-DC. The famous PEE-WEE Type 360 is unexcelled for fine precision work.

Stk. No.	Type	Watts	Lgth.	Tip	Wt.	Net Each
① 22B170	315	60	11 1/2"	3/8"	1 lb.	<b>\$1.87</b>
② 22B171	325	100	13 1/4"	3/8"	1 1/2 lb.	<b>4.33</b>
③ 22B172	400	60	9"	1/2"	1 lb.	<b>4.00</b>
④ 22B176	360	35	7 1/2"	1/8"	8 oz.	<b>3.17</b>

### EXTRA TIPS

11A239. For Type 400-1/4". Ea. **33c** 16A651. For Type 360-1". Ea. **20c**  
 11A350. For Type 315-3/8". Ea. **60c** 11A351. For Type 325-3/8". Ea. **60c**

## HEAT SINK & SOLDER AID



**\$1.29**

The perfect heat sink—"clamps on" and holds wires in position while soldering. Retrieves small items in hard to reach places. Lightweight aluminum. 5" long.  
 No. 11A348. Each. **\$1.29**

## SOLDER ALL METALS EASILY!

### 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.

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. 11B78. Net Each. **72c**

**72c**

- SOLDERS:**
- Copper to Aluminum.
  - Aluminum to Aluminum
  - All Metals.



## WEN SOLDERING GUNS

Mfg. List Price \$7.95

TRUE SOLDERING CONVENIENCE AND PERFORMANCE AT AMAZING LOW COST

**\$5.83**



MODEL 199

- Heats in Just 2 1/2 seconds
- Built-In Spotlight
- Small—Fits Tool Kit or Pocket
- Light—Easy to handle, less tiresome
- Extra long narrow Tip for Tight Spots

A little sweetheart of a soldering gun, priced within the reach of everybody. Accomplishes those regular soldering jobs with ease, gives ample soldering heat quickly! Cools when trigger is released. Weighs only 1 1/2 lbs. with perfect balance. Easy to use—no tiring. Plastic handle and case are heat and shock resistant. 3/4" long, narrow lifetime tip reaches into those tight spots with real ease, while spotlight focuses on work. 115 volts, 60 cycle AC. Wt. 2 1/4 lbs. Mfg. List \$7.95  
 No. 37A329. Net Each. **\$5.83** 3 Lots, Each. **\$5.30**

## HEAVY-DUTY MODELS

With extra-long rigid tip for all work—light, medium and heavy.

Stk. No.	Model	Watts	Wt.	Mfg. List	Each	3 @ Ea.
37B260	288	200	3 lbs.	\$7.95	<b>\$7.31</b>	<b>\$6.64</b>
37A238	250	200	4 lbs.	12.95	<b>9.52</b>	<b>8.64</b>

## WEN REPLACEMENT TIPS

Stk. No.	Type	For Gun Model	Each	3 @ Ea.
16A375	Long Reach (19B4)	#199, 100	<b>\$0.38</b>	<b>\$0.35</b>
16B445	Standard (25A4)	#250	<b>.20</b>	<b>.17</b>
16A657	Long Life (25x20)	#250	<b>.38</b>	<b>.35</b>
16A658	Plastic Tile Cutting (25C1)	#250	<b>.38</b>	<b>.35</b>
16B659	Plastic Tile Cutting (19C1)	#199, 100	<b>.46</b>	<b>.42</b>
16A859	Standard (28C4)	#288	<b>.46</b>	<b>.42</b>
16A860	Plastic Tile Cutting (28C1)	#288	<b>.46</b>	<b>.42</b>
16A861	Flat Iron Tip (28F33)	#288, 250	<b>.46</b>	<b>.42</b>

## WEN UNIVERSAL FINE SOLDERING TIP KIT

Contains 2 couplers and 5 lengths of wire. Form wire tips to whatever shape required. For Wen Model 100, 199, 288 and 250 soldering guns.  
 No. 16A374. Part No. U-4  
**Package Each. **53c****

## WEN 100K SOLDERING GUN KIT

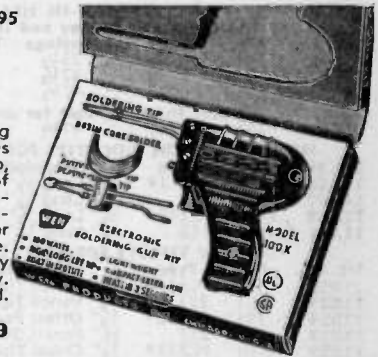
YOU GET MFG. LIST PRICE \$7.95

- Regular Tip
- Plastic Cutting Tip
- Roll Solder

**\$5.83**

A real value! Wen quality soldering gun in handy carry package. Comes complete with standard soldering tip, plastic cutting tip plus handy roll of rosin core solder. Ideal for kit builders, experimenters as well as servicemen. Same high quality as heavier duty models but made for lighter use. Rated 100 watts. Rapid heat ready for use in 5 seconds. 120 volts 60 cy. AC. Fully guaranteed. UL approved. Wt. 3 lbs. Mfg. List \$7.95.

No. 37A35. **\$5.83** 3 Lots, **\$5.19**  
 Net Each. **Each. . . . .**



## SOLDERING AID AND SCRIBER

Perfect aids in repairing printed circuit boards, holding leads while soldering, stringing dial cords, removing parts from inaccessible places—a thousand uses from one tool. Hardened steel scriber point for marking chassis, panels, etc.

① No. 11A1. Combination Scriber and Hook—7" long. Net Each. **.45c**  
 ② No. 11A3. Combination Scriber and Awl—8 1/2" long. Net Each. **.45c**

## POCKET BLOW TORCH & SOLDERING KIT

HANDY 2-IN-1 TOOL WORKS FROM PROPANE GAS CARTRIDGE



**\$2.49**

Handiest torch yet for doing those small repair jobs quickly and easily. Provides high heat (3500 degrees) pin point flame sufficient for soldering, brazing, softening point and putty, fixing leaks plus numerous other uses. Pays for itself in no time at all! Uses economical "throw-away" gas cartridges similar to those used in cigarette lighters. Kit includes compact size 7" torch with soldering tip, all purpose solder and two propane gas cartridges. Soldering tip slips over torch head to provide portable iron for those outdoor or away from bench soldering jobs. Entire kit fits handily in pocket.

No. 11C10. Kit Each. **\$2.49**  
 No. 11B118. Torch Only with one cartridge. **\$1.95**  
 No. 11B119. Extra Cartridges. Box of 2. **.39c**

# Soldering Guns, Irons & Solder

## WELLER DUAL HEAT SOLDERING KIT

MFG. LIST PRICE \$7.95

**\$5.83**

LOCK WHAT YOU GET!

- New Dual Heat Gun
- Soldering Brush
- Soldering Aid
- Mester Solder
- All in Handy Case



### 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 90/125 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 cy. AC. Fully guaranteed. UL approved. Wt. 3 lbs. **\$5.83** 3 Lots, **\$19**  
No. 37A150. Model 8200K. Net Each.....  
No. 16A796. Extra Tips. Pkg. of 2.....**35c**

## NEW WELLER KORMAT SOLDERING KIT

MFG. LIST \$9.95

**\$7.31**

Assures faster, better connections everytime.



- Popular 8100B Soldering Gun—Reg. \$6.44 Mfg. List.
- Kormat Solder Dispenser — Reg. \$5.95 Mfg. List.

Now famous Weller 100 watt gun Model 8100B made more convenient than ever. Promotionally priced kit includes this popular dependable solder gun complete with the handy Kormat solder dispenser which reduces solder waste, keeps solder clean, eliminates finger burning. Instant heat gun obtains proper solder temperature in just 5 seconds. Prefocused spotlight illuminates work while soldering. Dispenser holds enough solder for dozens of jobs. 115 volts 60 cycle AC. Shpg. wt. 3 lbs. WK81 KH. 37B370. Each... **\$7.31** 3 **\$6.50**

## WELLER SOLDERING IRONS



All feature the magnastat controller which automatically maintains proper temperature at the tip. Tips are premium plated for long life, tapered for heat efficiency, replaceable by simply unscrewing knurled nut which holds tip in place. All models operate from 110-120 volts AC.

### ALL MODELS SUPPLIED LESS TIP

Sik. No.	Type	Cord Type	Watts	Weight	Each
37A13	TC552-2	2 Wire	55	6 3/4 Oz.	<b>\$8.07</b>
37B355	TC552-3	3 Wire	55	7 1/2 Oz.	<b>6.00</b>
37A420	TC602-2	2 Wire	75	8 1/2 Oz.	<b>6.25</b>
37B357	TC602-3	3 Wire	75	8 1/2 Oz.	<b>6.99</b>
37B360	TC1202-2	2 Wire	120	9 3/4 Oz.	<b>6.99</b>
37A421	TC1202-3	3 Wire	120	10 1/2 Oz.	<b>7.72</b>

### TIPS FOR TC IRONS

S-k. No.	Type	Temp.	Fits Iron	Description	Each
15A533	5-C1N	600°	TC552	1/8" Screwdriver	<b>\$0.58</b>
15A558	5-B1N	700°	TC552	3/8" Screwdriver	<b>.58</b>
16A559	5-D2N	600°	TC552	Pyramid	<b>.58</b>
16A534	6-E1N	700°	TC602	1/4" Screwdriver	<b>1.12</b>
16A576	6-E2N	700°	TC602	1/4" Pyramid	<b>1.12</b>
16A578	12-F4N	750°	TC1202	3/8" Chisel	<b>1.49</b>
16A579	12-G2L	750°	TC1202	1/8" Pyramid	<b>1.49</b>

## KESTER "RESIN-FIVE" CORE SOLDER

The better Rosin Core solder for TV... all radio and electronic parts... everything electrical.

Flux is more active and stable yet non-corrosive and non-conductive. Consists of the highest grades of tin and lead commercially available.

No. 11A692. Small can for the occasional user. 40% tin—60% lead, 3/32" diameter. Approx. 6'. Each... **18c**



3/32" (.092) Diameter		1/16" (.062) Diameter	
No. 11A684. 1 Lb. Spool. Ea.	<b>\$1.25</b>	No. 11A685. 1 Lb. Spool. Ea.	<b>\$1.28</b>
No. 11A694. 5 Lb. Spool. Ea.	<b>6.00</b>	No. 11A695. 5 Lb. Spool. Ea.	<b>6.15</b>
<b>50% TIN—50% LEAD</b>			
No. 11A686. 1 Lb. Spool. Ea.	<b>\$1.47</b>	No. 11A687. 1 Lb. Spool. Ea.	<b>\$1.50</b>
No. 11A696. 5 Lb. Spool. Ea.	<b>7.15</b>	No. 11A697. 5 Lb. Spool. Ea.	<b>7.25</b>
<b>60% TIN—40% LEAD</b>			
No. 11A688. 1 Lb. Spool. Ea.	<b>\$1.67</b>	No. 11A689. 1 Lb. Spool. Ea.	<b>\$1.70</b>
No. 11A698. 5 Lb. Spool. Ea.	<b>8.15</b>	No. 11A699. 5 Lb. Spool. Ea.	<b>8.25</b>
No. 11A691. Soldering Paste. Per 2 Oz. Con.	<b>.14c</b>	10 Cans, Each.	<b>.12c</b>
<b>KESTER SILVER SOLDER FOR PRINTED CIRCUITS</b>			
Contains 3% silver, 61 1/2% tin, 35 1/2% lead with an .062 diameter.			
No. 11A700. 1 Lb. Spool. Net Each.	<b>\$3.51</b>		

## "HANDYMAN" KIT

FOR SERVICEMAN,  
HOMECRAFTER  
HOBBYIST,  
EVERYONE!

MFG. LIST PRICE \$14.95

**\$10.99**

- SOLDERS!
- MENDES!
- 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 250 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 the work; Rugged housing that stays cool. 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. Two "How-to-do-it" booklets give hundreds of helpful hints—tell how to do various repair. Sturdy metal case is convenient for storage and has handle for easy carrying. Mfg. List Price \$14.95. Shpg. wt. 6 1/2 lbs. Model 8250AK. No. 37A367. **\$10.99** 3 Lots, **\$9.77**  
Net Each.....

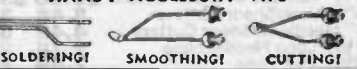
## IMPROVED WELLER SPEED IRONS



MODEL D-440

**\$9.52**

### HANDY ACCESSORY TIPS



New-improved models designed to do any or all soldering jobs, heavy or light, with equal ease. Instant heating—takes only 5 seconds to obtain solder heat. 5/16" reach gets into the deep inaccessible places—dual spotlights focus on the work. Rugged housing withstands abuse—stays cool. Guns are perfectly balanced—do not fatigue the user. Low-cost tips can be changed in a jiffy. Dual Heat provides 35% reserve power for heavier soldering needs. Operates on 115 volt 60 cycles AC.

### DELUXE DUAL HEAT MODELS

No.	Model	Type	Watts	Shpg. Wt.	Each	3 Lots, Ea.
37B4	D-550	Dual Heat	200/275	4 Lbs.	<b>\$11.71</b>	<b>\$10.54</b>
37A237	D-440	Dual Heat	100/150	3 Lbs.	<b>9.52</b>	<b>8.47</b>

### ECONOMY SINGLE HEAT MODEL

37A62	8100B	Single Heat	100	3 lbs.	<b>4.73</b>	<b>4.42</b>
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### WELLER SOLDERING TIPS

No.	Type	For Gun Models	Pkg. of 2	25 Pkgs. Each
16A655	7250	WS-200, WD-250, S-500, D-550, 8250A	<b>35c</b>	<b>33c</b>
16A656	7135	WS-100, WD-135, S-400, D-440, 8100	<b>25c</b>	<b>23c</b>
16A598	7300	S-107, D-207	<b>25c</b>	<b>23c</b>
16A796	8125	8200, 8100B	<b>35c</b>	<b>33c</b>

### WELLER HOBBY & HOMECRAFTER TIPS

Smoothing Type	Cutting Type	For Gun Models	Each
16B552	16B551	WD-250, S-500, D-550, 8250A	<b>35c</b>
16B550	16B549	WD-135, 8200, D-440, Jr., 8100B	<b>35c</b>

### WELLER REPLACEMENT PARTS

No.	Part	For Gun Models	Each
16A905	Tip Nut (7325)	D440, 8200, S-400, D-400, Jr., 8100B	<b>\$0.15</b>
16A908	Tip Nut (7417)	WS-200, WD-250, S-500, D-550, 8250A	<b>.16</b>
16A906	Switch (7323)	All single heat models	<b>1.22</b>
16A907	Switch (7324)	All dual heat models	<b>1.37</b>

### ERSIN MULTICORE SOLDER

Extra active, non-corrosive, 5 core construction assures flux continuity... prevents "dry" joints. Approved under Govt. specs. QOS-571C.



KIT-PAK. Two solder gauges for the occasional user. No. 11A701. Approx. 6'. Each... **25c**  
18 Gauge—60% Tin-40% Lead  
No. 11A693. Service Pak (Avg. 20') Per Spool..... **.50c**  
No. 11A690. 1 Lb. Spool..... **\$1.93**



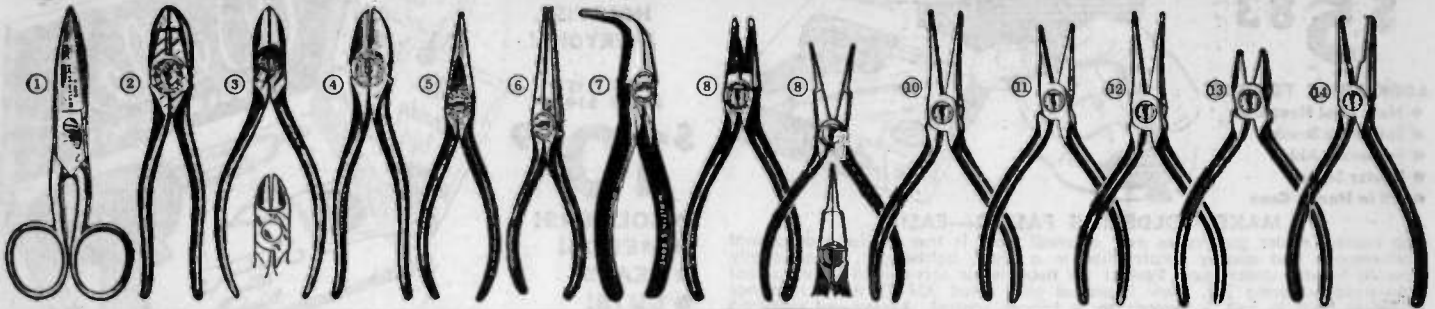
# Pliers, Vise Grips



## FAMOUS KLEIN PROFESSIONAL QUALITY PLIERS

BY MATHIAS KLEIN AND SONS—FOREMOST IN QUALITY TOOLS FOR THE INDUSTRY SINCE 1857

• HIGHEST QUALITY • POLISHED HEADS • TEMPERED BLUE HANDLES • FULLY GUARANTEED

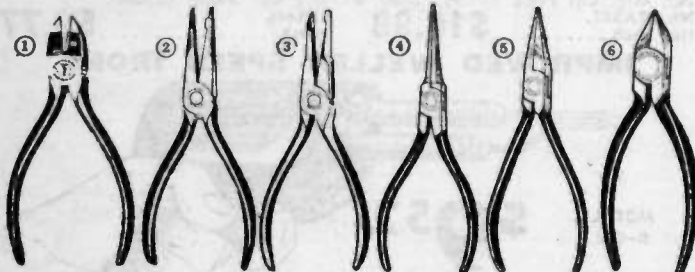


Stk. No.	Mfg. No.	Fig.	Wt.	Description	Each	*6 Each	Stk. No.	Mfg. No.	Fig.	Wt.	Description	Each	*6 Each
16A970	2100-5	①	6 oz.	Xela "S" Scissors	\$1.85	\$1.86	16A982	D301-6P	⑥	5 oz.	6" Long Nose w/End Cutter	\$3.60	\$3.00
16A974	201-7NE	②	9 oz.	7" Side Cutting Pliers	3.68	3.07	16A983	D301-6SCP	⑥	5 oz.	6" As above, less cutter	3.20	2.67
16A975	201-8NE	③	9 oz.	8" Side Cutting Pliers	4.24	3.53	<b>KLEIN SMALL SERIES</b>						
16B708	213-9NE	④	9 oz.	9 1/4" Side Cutters	5.28	4.40	16A965	D307-5 1/2	⑥	4 oz.	5 1/2" Long Nose Pliers	2.72	2.27
16B898	202-6	⑤	4 oz.	6" Oblique Cutting Pliers	2.88	2.40	16A966	D317-5	⑥	4 oz.	5" Chain Nose Pliers	2.72	2.27
16A976	245-5W	⑥	4 oz.	5" as above w/wire strippers	3.28	2.73	16A967	D306-5 1/2	⑥	5 oz.	5 1/2" Duck Bill Pliers	3.12	2.60
16A977	220-7	⑦	9 oz.	7" Oblique Cutting Plier	3.40	2.83	16A968	209-5	⑥	5 oz.	5" Oblique Cutting Pliers	3.28	2.73
16A978	301-7	⑧	8 oz.	7" Long Nose Pliers	2.64	2.20	16A969	204-6	⑥	6 oz.	Traverse 6" End Cutters	3.20	2.67
16A979	203-6	⑨	6 oz.	6" As above w/Cutters	2.88	2.40							
16A980	305-6	⑩	6 oz.	7" Long Flat Nose Plier	2.64	2.20							
16A981	302-6	⑪	5 oz.	6" Long Curved Nose Plier	3.04	2.53							

Pliers with prefix "D" have plastic cushion grip handles

\*Cannot be assorted for quantity prices

### SPECIAL KLEIN ELECTRONIC PLIERS



Stk. No.	Mfg. No.	Fig.	Wt.	Description	Each	6 Each
16C770	D207-5C*	①	4 oz.	5 1/2" Oblique w/Shear Cutters	\$3.80	\$3.00
16A901	D2086PC*	②	5 oz.	6" L.N. w/Shear Cutters	3.88	3.07
16A911	D261-6C*	③	5 oz.	6" Needle w/Shear Cutters	4.48	3.73
16A934	D318-5 1/2	④	4 oz.	5 1/2" Long Needle Nose	2.76	2.30
16A935	D323-4 1/2 C*	⑤	3 oz.	4 1/2" Flat Nose	2.64	2.20
16A936	D209-4C*	⑥	2 oz.	4" Oblique Cutters	3.28	2.73

\*Supplied with coil spring to hold jaws open for use. All have plastic cushion grip handles. Cannot assort for quantity prices.

### KLEIN "JEWELERS" SIZE PLIERS



Stk. No.	Mfg. No.	Fig.	Wt.	Description	Each	6 Each
16C767	D321-4 1/2	①	3 oz.	4 1/2" Long Nose Plier	\$2.40	\$2.00
16C768	D224-4 1/2	②	3 oz.	4 1/2" End Cutters	2.80	2.33
16C769	D257-4	③	3 oz.	4" Diagonal Cutter	2.48	2.07

All with plastic cushion grip handles. Cannot assort for quantity prices.

### DIPPED SLIP-ON HANDLES

Colors: Red, Yellow, Green and Blue.

Specify Color and Stock No.

Stk. No.	To Fit	Per Pr.
16A913	4"-4 1/2" Pliers	12c
16A914	5"-5 1/2" Pliers	14c
16A916	6"-6 1/2" Pliers	16c

### LEATHER TOOL POUCH

Fits belt. 5 compartments for pliers, screwdrivers, etc., snap for knife. 8x9". Finest pliable leather, stitched and riveted. Wt. 1 lb. List \$5.25. 37B174. Net Each **\$3.09**



### NEW KLEIN WIRE GRIPPING OBLIQUE CUTTERS

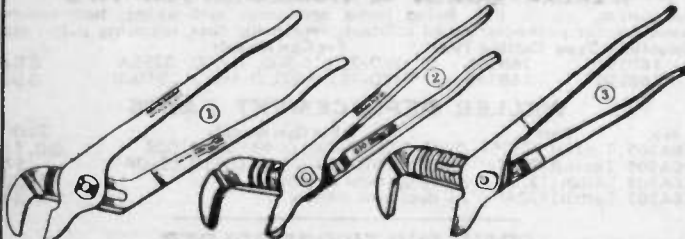
Has special steel springs between jaws to hold clipped end of wire. With plastic cushion grip handles and coiled spring to keep jaws open ready for use.

No. 16A917 4" Long Type D229-4C 2 oz.  
No. 16A918 5" Long Type D229-5C 3 oz.  
Your Choice Ea. \$4.00 6 Lots, Ea. \$4.00

### KLEIN PUMP PLIERS

Unique construction will not allow plier to slip accidentally from one position to another. 9 1/2" long. Jaws open to over 2". No. 16B701. Wt. 13 oz. Klein No. 510. Each .....\$2.56

### ORIGINAL "CHANNEL-LOCK" TONGUE & GROOVE 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-G supplied with plastic cushion grips.

Stk. No.	Mfg. No.	Capacity	Wt.	Description	Each
(1)	16A546	420	1 1/2"	12 oz. 9 1/4" Pump Plier	\$2.40
(2)	16A547	430	3/8" to 2"	14 oz. 10 1/2" Big Champ Plier	2.55
(3)	16A548	440-G	2 1/4"	1 1/4 lb. 12" Gripmaster Plier	3.00

### WITH NEW "EASY RELEASE"—JUST PRESS LEVER—JAWS SPRING OPEN

#### ① VISE GRIP WIRE CUTTERS

Does more things easier and quicker than any other wrench!

Has Vise-Grips famous tong-grip that remains locked to the work with hands removed. Adjusts to super-plier action—opens automatically when grasp is released. Also features a powerful wire cutter, thin nose for close quarters, curved jaws with knurled tips to hold work at the very tip. Actually an end wrench, pipe wrench, plier, vise, etc., all in one tool.

Model 7WR-7" 1/4" thick jaws adjust to 1 5/8". Wt. 10 oz. Mfg. List \$2.50  
No. 11A360. Net Each **\$1.88**

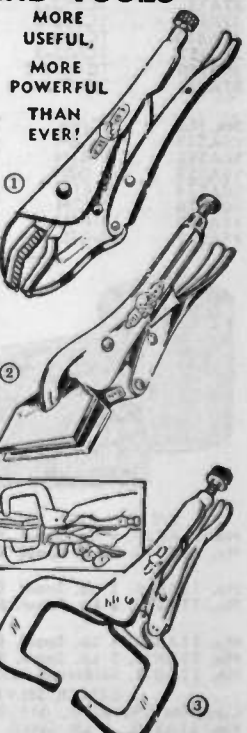
Model 10WR-10" 3/8" thick jaws adjust to 1 7/8". Wt. 1 1/2 lbs. Mfg. List \$2.95  
No. 11A359. Net Each **\$2.21**

#### ② VISE-GRIP SHEET METAL TOOL

Handy for all types of sheet metal work around the shop, such as forming chassis, making angle brackets, angling panels, bending metal edges, etc. Also ideal as a vise for working with power tools. Locks to work with tremendous grip—eliminates muscular effort to hold jaws closed as in ordinary tools. Also has non-locking plier action feature. Made of fine alloy steel. 8" long, 3 1/8" jaw width, 1 3/4" throat depth. Wt. 18 oz. Mfg. List price \$3.35  
No. 16A948. Type 8R  
Net Each **\$2.51**

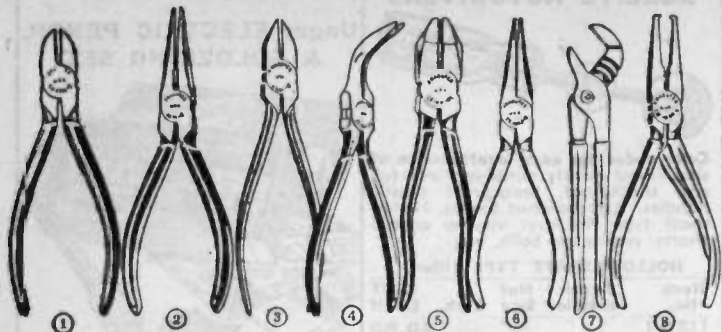
#### ③ VISE-GRIP C-CLAMP

Most versatile tool of its type yet! "Ice-Tong" jaws reach around any shape object. Adjust 0" to 3 3/4". Locks to work by a squeeze of the hand with tremendous grip. Ideal in holding work for gluing, drilling, sawing, etc. A valuable addition to any shop. Overall length 11". Wt. 28 oz. Mfg. List \$3.35  
No. 16B927. Type 11R. Net Each **\$2.51**



# Pliers & Screwdrivers

## KRAEUTER PLIERS



### "INDUSTRIAL" FINEST QUALITY

Made of highest grade steel. All have polished heads and are supplied with comfortable cushion grip handles.

Stk. No.	Mfg. No.	Fig.	Wt.	Description	Each	*6 Ea.
16A642	CG4501	①	6 oz.	Diagonal Cutting Pliers	\$2.72	\$2.47
16A643	CG1661	②	5 oz.	Long Chain Nose	2.88	2.43
16A610	CG1641	③	4 oz.	Chain Nose with Cutters	2.47	2.24
16A470	CG5601	④	4 oz.	Needle Point Diagonal	3.12	2.83
16A644	CG1631	⑤	4 oz.	Curved Needle Nose	2.87	2.60
16C418	CG1830	⑥	13 oz.	Side Cutting Pliers	3.06	2.77
16A641	CG1663	⑦	5 oz.	Chain Nose End Cutter	\$3.56	\$3.23
16A640	CG710	⑧	12 oz.	Tongue-N-Groove	2.57	2.33
16A612	CG5627	⑧	4 oz.	End Cutng. Resistor Plrs.	3.64	3.30

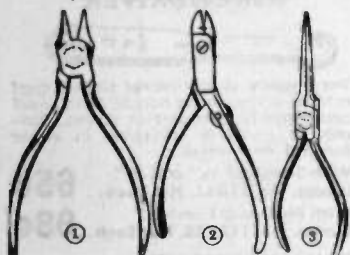
### SPECIAL VALUE LOW PRICED "K" LINE

Genuine Krauter quality, drop forged from a good grade of steel. Semi-polished heads. Black handles.

Stk. No.	Mfg. No.	Fig.	Wt.	Description	Each	*6 Ea.
16A529	4600	①	4 oz.	Diagonal Cutters	\$1.88	\$1.71
16A528	1660	②	5 oz.	Long Chain Nose	2.15	1.95
16A645	1780	③	4 oz.	Long Chain Nose	2.59	2.35
16A527	1380	④	8 oz.	Side Cutting Pliers	1.94	1.78

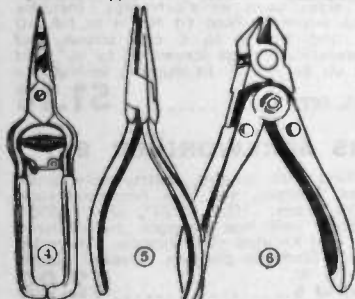
\*Cannot be assorted for quantity prices.

## UTICA PLIERS FOR ELECTRONICS



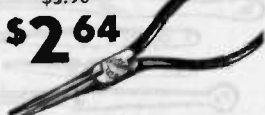
Drop forged from the finest alloy steel to assure dependable long life. All have polished heads and tempered black handles. Average shpg. wt. 8 oz.

- ① Diagonal Cutting Pliers. Sharp, flush cut nose. Size 6". 16A562. Type 141. Each... \$3.02
- ② Midget Snips with Stripper. Adjustable stripping notches for up to #18 wire. Size 4 1/2". 16A563. Type 103. Each... \$3.23
- ③ Long Needle Nose Pliers. For fine assembly work. Size 6". 16A564. Type 777. Each... \$2.37



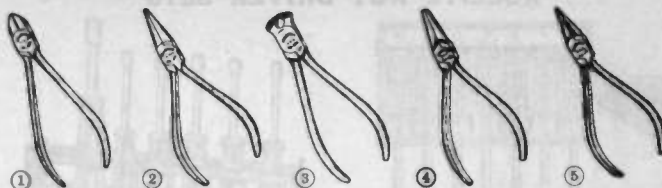
- ④ Electronic Snips. Shear action cuts filament, fine wire, etc. With spring and plastic cushion grip handles. Size 7 1/2". 16A565. Type 272-CS. Each... \$2.76
- ⑤ Chain Nose Pliers. For Subminiature work. Fine scored jaws. Size 4 1/2". 16A566. Type 23. Each... \$2.09
- ⑥ Printed Circuit Pliers. Cuts and crimps in one operation. Prevents cut wire from sliding back through hole in printed circuit board. Size 5". 16A567. Type 470. Each... \$3.48

## NEEDLE NOSE PLIERS DESIGNED FOR MINIATURE WORK



Finest quality pliers designed for working with miniature equipment such as transistor sets, hearing aids, etc. Overall length 6". Xcelite 56CG. No. 11A393. Net Each... \$2.64

## KRAEUTER JEWELERS' PLIERS



Perfect for accomplishing the most delicate job, yet large enough for easy handling. Quality made, drop forged from the finest steel and fully polished. Endorsed by instrument manufacturers. Plastic cushion grip handles.

Stk. No.	Mfg. No.	Fig.	Description	Wt.	Each	6, Ea.
16A603	CG81	①	4 1/2" Diagonal Cutters	3 oz.	\$2.50	\$2.27
16A602	CG83	②	4 1/2" Chain Nose	3 oz.	2.35	2.13
16A606	CG82	③	4 1/2" End Nippers	3 oz.	2.91	2.64
16A604	CG84	④	4 1/2" Flat Nose	3 oz.	2.35	2.13
16A605	CG85	⑤	4 1/2" Round Nose-Round Jaw	3 oz.	2.35	2.13

SET OF FIVE PLIERS. All above pliers in black zipper case, 5 3/4 x 9 1/4". Wt. 1 lb. Mfg. No. CG90.

No. 16A607. Complete Set... \$14.33

## NEW KRAEUTER ELECTRONIC PLIERS WITH PLASTIC CUSHION GRIP HANDLES

### ① 4 1/2" NEEDLE POINT DIAGONAL CUTTERS

Precision needle point for fine, exact cutting. Flush edge for close square cut. Coil spring keeps jaws open ready for use. Wt. 3 oz. Mfg. No. C-CG 101-4 1/2". No. 16A472. Each... \$3.68 6 @ Each... \$3.33



### ③ 6" LONG NOSE PLIERS

Fine 3/32" tip reaches into areas inaccessible to other pliers. Coil spring keeps jaws open ready for use. Wt. 4 oz. Mfg. No. C-CG140-6". No. 16A473. Each... \$3.12 6 @ Each... \$2.83



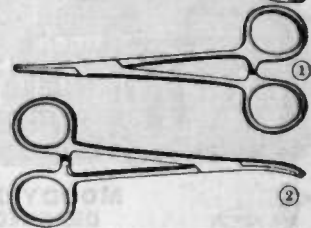
### ⑦ 7" EXTRA FINE LONG NOSE PLIERS

☆ extra fine point for the most delicate precision work. Coil spring keeps jaws open ready for use. Wt. 5 1/4 oz. Mfg. No. C-CG160-7". No. 16A480. Each... \$2.61 6 @ Each... \$2.37

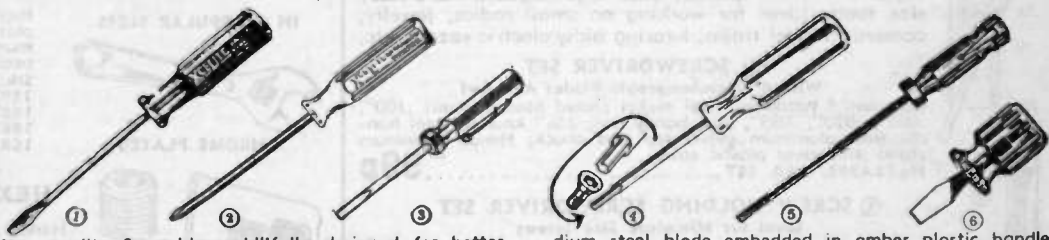


## XCELITE "SEIZER" TOOL

A versatile instrument with unusual holding qualities especially designed for working with miniature components. Clamps on to work and will outhold needle nose pliers. Ideal for use as a heat sink, holding leads while soldering, re-stringing dial cards, etc. All stainless steel with precise box joints. Length 6". ① No. 11A218. Model 42H. \$4.27  
Straight Nose. Net Each... \$4.27  
② No. 11A219. Model 43H. Curved Nose. Net Each... \$4.42



## XCELITE SCREWDRIVERS



Top quality Screwdriver skillfully designed for better performance. Full sized shock and break-proof handle is correctly shaped for grip and balance. Chrome Vanadium steel blade embedded in amber plastic handle. Tip of blade is properly ground and gauged to fit screw slot accurately.

No.	Blade	Overall	EACH
11A85	3x 1/8"	5"	\$0.27
11A86	4x 1/8"	6 1/4"	.39
11A87	6x 1/8"	8 1/2"	.42
11A88	3x 1/8"	6 5/8"	.57
11A89	4x 1/8"	7 5/8"	.63
11A90	6x 1/8"	9 5/8"	.72
11A91	8x 1/8"	11 5/8"	.84
11A92	4x 1/4"	8"	.78
11A93	6x 1/4"	10"	.84
11A94	8x 1/4"	12"	.90

No.	Blade	O'all Point	EACH
11A237	1/8x2"	4"	\$0.45
11A96	1/4x3"	5"	.69
11A97	1/4x4"	7 1/2"	.87
11A98	1/4x6"	10"	1.17
11A99	3/8x8"	12"	1.47

No.	Slot	Blade	Each
11B155	1/8"	3x 1/4"	\$0.72
11B172	3/32"	4x 1/4"	.81
11B197	3/32"	4x 1/4"	.81

No.	Blade Size	Overall	Each
11A103	3/32x2"	4 1/4"	\$0.18
11A104	3/32x3"	5 1/4"	.27
11A105	3/32x4"	6 1/4"	.27

## UPSON "HOLD-E-ZEE" SCREW-HOLDING SCREWDRIVERS



No.	Type	Hcx	Blade	Each
11A110	TR2	3/8"	2"	\$0.37
11A111	TR4	3/8"	4"	.54
11B120	TR6	3/8"	6"	.59
11B121	TS7	3/8"	7"	.71
11B122	TR8	3/8"	8"	.67
11A112	TR10	3/8"	10"	.71

## QUICK-WEDGE SCREW-HOLDING SCREWDRIVERS

UNCONDITIONALLY GUARANTEED  
PUSH →

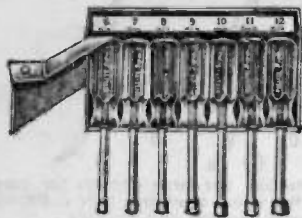
Holds screws, drives screws, retrieves screws from inaccessible places. Two half-round blades inside a moveable steel tube. When tube is moved forward the double bit expands thus tightening in screw slot. When tube is moved back the screw is released. Unbreakable, shockproof tenite handle. Tough spring steel blade.

No.	Blade	Overall	Each	No.	Blade	Overall	Each
11B311	2 1/2x 1/8"	5"	\$0.95	11B114	4x 3/32"	6 1/2"	\$0.87
11B320	7 1/2x 1/8"	10"	1.13	11B113	8x 3/32"	10 1/2"	.94
				11B115	12x 3/32"	14 1/2"	1.05

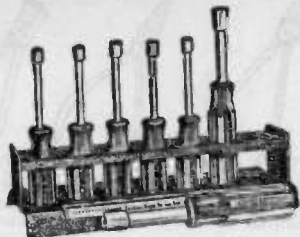


# Nut Drivers, Precision Tools, Etc.

## XCELITE NUT DRIVER SETS

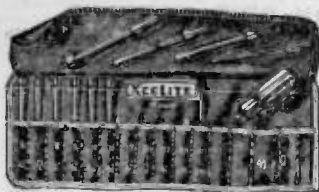


Type 127. The 7 most popular size nutdrivers. Shockproof, breakproof plastic handles are color coded for easier selection of sizes. Fully polished 3" blades. Consists of sizes 1/4", 3/8", 1/2", 5/8", and 3/4". Handsome metal container can be fastened to wall or work bench. Wt. 2 lb. No. 11A229. Per Set. **\$5.97**



Type 137. The 5 most popular size nutdrivers together with 2 hollow shaft type for fitting over volume controls, etc. Shockproof, breakproof handles are color coded. Consists of sizes 1/4", 1/2", 3/4", 5/8", and 3/8" and hollow shaft drivers 1/2" and 1/4". Attractive metal stand. Wt. 2 1/2 lbs. No. 11C14. Per Set. **\$6.66**

## XCELITE NUTDRIVER AND SCREWDRIVER SETS

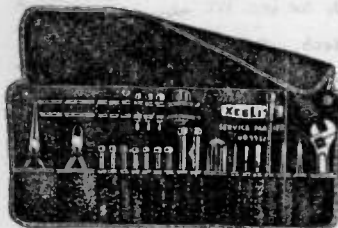


No. 99PR—Consists of amber plastic handle with 9 snap-in nutdrivers, sizes 1/4" to 1/2"; double end snap-in screwdriver bit with 1/4" and 3/8" blades; and double end snap-in screwdriver with Phillips No. 1 and 2 blades. Tools fasten simply—are held securely in handle. Plastic roll case. No. 11B231. Complete. **\$8.67**

No. 99 Jr. Pocket version of the big "99". Has smaller handle. No. 11B230. Each. **\$7.50**

## 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 1/4" through 1/2"; 3 stubby nutdrivers 1/4", 3/8" and 1/2"; 3 and 3/8" slotted screwdrivers; #1 Phillips screwdriver; 1/8"-3/8" reamer; 1/4"-1/2" reamer; 8" 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. Mfg. list \$38.15. Shpg. wt. 3 lbs. No. 11A380. Type 99SM. Each. **\$22.89**

## MOODY PRECISION TOOL SETS DESIGNED FOR MINIATURE WORK

These handy precision made miniature tools are just the ticket for handling those jobs requiring the use of tiny size tools. Ideal for working on small radios, jewelry, cameras, model trains, hearing aids, electric razors, etc.

### ① SCREWDRIVER SET

With 4 Interchangeable Blades And Awl

Contains 4 hardened steel nickel plated blades, sizes: .100", .080", .070", .055", plus handy awl; 2 3/4" knurled steel handle with aluminum swivel top and chuck; Handy aluminum stand with clear plastic cover. No. 18A392. PER SET. **99c**

### ② SCREW HOLDING SCREWDRIVER SET

Ideal for Miniature Size Screws

Interchangeable spring steel clip fits either the 1 3/4" or 2 1/2" blade supplied—holds tiny screws with a firm grip for driving or removing from hard-to-get-at places. Swivel top screwdriver handle with chuck takes either blade. Plastic container. No. 18A300. PER SET. **83c**

### ③ MAGNETIC SOCKET WRENCH SET

For Those Tiny Size Nuts

New set has amazing utility value, contains 5 tiny socket wrenches, sizes 1/8", 3/16", 1/4", 5/16" and 3/8", which are interchangeable in the swivel top chuck type handle. Magnetized to simplify the handling of tiny size hex nuts particularly when working in hard-to-get-at places. No. 18B389. PER SET. **\$2.67**

### ④ OFFSET OPEN END WRENCH SET

A brand new kit specifically designed for subminiature work. Easily removes or attaches tiny nuts found in hobby, electronics, instruments, ignition, etc. Contains five heat treated steel interchangeable wrenches, sizes: 1/8", 3/16", 1/4", 5/16", 3/8" knurled steel handle with chuck and swivel top. Supplied in stand with clear plastic dust cover. No. 18A391. Each. **\$1.69**

### ⑤ NEW HOBBYIST TAP SET

Contains 5 of the most popular sized taps 0-80, 1-72, 2-56, 3-48, and 4-40 plus tap wrench. The perfect tool for hobby and model shop work, for tapping plastic, metal etc. Supplied in stand with clear plastic dust cover. No. 18A390. Each. **\$3.95**

## XCELITE NUTDRIVERS



Color coded for easy identification of size. Finest quality nutdrivers with full size shockproof, breakproof plastic handles, fully polished blades. Hollow shaft type fits over volume control shafts, protruding bolts, etc.

### HOLLOW SHAFT TYPE (illus.)

Stock No.	Depth of Hole	Nut Size	Lgth.	COST EACH
11B107	5"	1/4"	6 7/8"	\$0.93
11A143	"	3/8"	6 7/8"	.93
11A144	"	1/2"	6 7/8"	.93
11A145	"	5/8"	6 7/8"	.93
11A146	"	3/8"	6 7/8"	1.05
11A147	"	1/2"	6 7/8"	1.08
11A148	"	5/8"	6 7/8"	1.14
11A149	"	3/8"	6 7/8"	1.26

### STANDARD SHAFT TYPE

Stock No.	Nut Size	Lgth.	Net Each
11A128	1/4"	6"	\$0.75
11A129	3/8"	6"	.75
11A130	1/2"	6"	.75
11A131	5/8"	6"	.75
11A132	3/8"	6"	.75
11A133	1/2"	6"	.75
11A134	3/8"	6"	.75
11A135	1/2"	7 1/2"	.96
11A136	1/2"	7 1/2"	.96

Stubby Type—For 1/4" nuts. 1/4" Shaft, overall length 3 1/4". No. 11B137. Each. **63c**

## TWEezer KIT



Always handy for small work. Includes 7" with curved smooth point, 4 3/4" slide-lock, 5 1/2" self-closing, and 4 3/4" standard type. Nickel plated steel. No. 11B164. Kit of Four. **\$1.75**

## Ungar ELECTRIC PENCIL & SOLDERING SET



Handy kit with the popular "light-as-a-feather" 20 watt Ungar Soldering Pencil and 6 interchangeable tips for numerous hobby and shop uses. Includes Knife, all-purpose, and Pencil tips for working with plastics, woods, cork and leather.

Foil tip for metallic foil embossing and leather embossing; Pyramid tip for light soldering jobs, and Pencil Tip for delicate soldering jobs.

Complete with 6 sheets of metallic embossing foil, abrasive cloth, instructions.

For 110 volts AC-DC, UL approved. Shpg. wt. 3/4 lb.

No. 11A322. \$2.65 6 Lots, \$2.40 Each

## RATCHET OFFSET SCREWDRIVER



Very handy sturdy nickel plated steel ratchet screwdrivers handle both small and large hard-to-get-at screws. Ratchet is instantly reversible in either forward or reverse.

With Standard 1/4" and 3/8" blades. No. 11B32. Net Each. **65c**

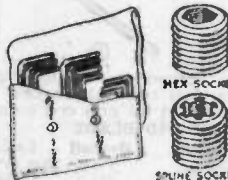
With Phillips #1 and #2 blades. No. 11B228. Net Each. **98c**

## ADJUSTABLE KLEIN WRENCHES

IN 4 POPULAR SIZES



CHROME PLATED



HEX SOCKET

SPLINE SOCKET

High quality adjustable end wrenches. Chrome plated drop forged alloy steel combines maximum strength, lighter weight with lasting beauty. Identical to Crescent.

Stk. No.	Mfg. No.	Wt.	Size	Cap.	Each
16B702	500-6	3 oz.	6"	3/4"	\$2.12
16B704	500-8	6 oz.	8"	1"	2.40
16B706	500-10	13 oz.	10"	1 1/8"	3.04
16B707	500-12	24 oz.	12"	1 1/2"	4.48

## HEX & SPLINE WRENCH KIT

Handy pocket size kit contains complete range of wrench sizes used in electronics. Includes Hex (Allen) wrenches that fit No. 4 to No. 10 set screws and No. 2 to 6 cap screws and (Bristol) wrenches for set screws up to 1/4" and cap screws up to No. 8. In durable leatherette case. No. 16A648. SET. **\$1.18**

## 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 3/4". Shpg. wt. 1/2 lb. No. 11A309. Set of 6. **\$2.89**

## MAGNETIZE AND DEMAGNETIZE TOOLS



Now magnetize or demagnetize all small tools of ferrous metal instantly. Screwdrivers, nutdrivers, tweezers, hammers, etc., can be magnetized to hold small parts for simple starting. Tools which have become a nuisance due to having become magnetized now can be demagnetized and returned to their original usefulness. Small portable unit operates from any 110-120 V. AC line. Complete with simple instructions. Model F-100. No. 36B23. Mfg. List \$7.50. Net Each. **\$4.41**

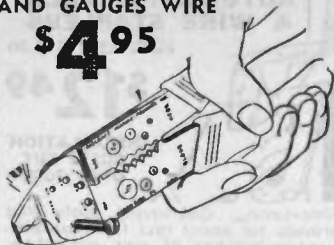
# Wire Strippers, Rules, Gauges

## AMP HAND TOOL

CRIMPS SOLDERLESS TERMINALS TO WIRE . . . SHEARS BOLTS  
CUTS, STRIPS AND GAUGES WIRE

Never before a single tool with so many uses. Crimps solderless terminals (see page 64) to wire ends. Shears bolts sizes 10-24, 10-32, 8-32, and 4-40 to desired length without damaging threads; Strips, Cuts, and measures wire, sizes 22 to 10. No. 19B1100.

**\$4.95**

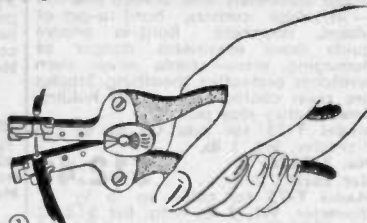


Amp 49835. Each. **\$4.95**  
Assort. of 50. New "Solistrand" solderless terminals. For solid, stranded, or irregularly shaped wires, or their combinations. 19B1113. Per Assf. **\$1.47**

## SPEEDEX AUTOMATIC WIRE STRIPPERS

### ① SPEEDEX WIRE STRIPPERS

Strips insulation automatically from wire easily and cleanly without crushing it. It saves time—just squeeze the handles and the job is done. Deluxe models are fully automatic with delayed return action—prevents crushing of fine stranded wire. Jaws remain open until wire is removed.



### NEW DELUXE MODELS

No. 22B138. Type 766. For 12 to 20 wire.  
No. 22B135. Type 766A. For 14 to 30 wire.  
**CHOICE EACH. . . . . \$5.82**

### STANDARD MODELS

No. 22B136. Type 733. For 12 to 20 wire.  
No. 22B137. Type 733A. For 14 to 30 wire.  
**CHOICE EACH. . . . . \$4.67**

### ② SPEEDEX WIRE STRIPPER KIT

Handy Wire Stripper Kit comes complete with deluxe type wire stripper as described above 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. No. 22B134. Type 766K Complete. **\$11.73**



box. Strips solid or stranded wire #8 to #30, 18 POSJ, and 300 ohm twin Lead. No. 22B134. Type 766K Complete. **\$11.73**

## LOW COST ADJUSTABLE WIRE STRIPPER

STRIPS CLEAN AND FAST

Does the job quickly and easily. Cutters are instantly adjusted to wire being stripped, #6 or smaller. Made of high grade steel with precision ground cutter. Small in size—fits in the vest pocket. No. 16B44.

**73c**

## VERNIER CALIPER



WITH HANDY DEPTH GAUGE

1001 Uses Every Day. Made of cold rolled steel, graduations deeply etched of  $\frac{1}{16}$ " and  $\frac{1}{32}$ " permit close readings. Inside jaws offset and may be used for scribing circles or dividers. 5" capacity. Vernier reading and depth gauge. No. 11A195. Your Cost, Eo. **\$1.35**

## MILLERS-FALLS STEEL TOOL MARKING SETS

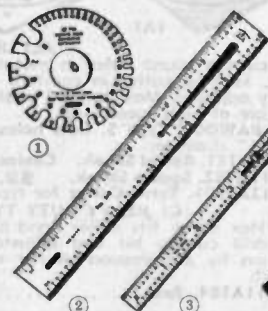


$\frac{1}{8}$ " Roman face characters for marking chassis, parts, etc. Simply hammer to produce clear sharp impressions. Letter Set—Consists of 28 characters. (A to Z, "G" and "Period"). No. 11A273 **\$4.58**

Per set. **\$4.58**

Figure Set—Consists of 9 characters. (0 to 8 with "6" being used also as "9"). No. 11A274. Per Set. **\$1.58**

## USEFUL MEASURING TOOLS



### ① 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. 11A323. **\$3.99**

### ② 6" Rule & Wire Gauge

Handy pocket all-purpose rule. Made of stainless steel with  $\frac{1}{16}$ " and  $\frac{1}{32}$ " graduations. Has American or Browne & Sharpe wire gauge. Reverse side has gauge numbers and decimal equivalents. No. 16A536. NET EACH. **59c**

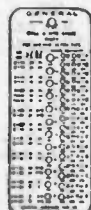
### ③ Pocket Rule & Depth Ga.

Tempered steel 6" rule with pocket clip. Quick reading 64th graduation. No. 18A421. **14c**

## REVERSIBLE SCRIBER



Knurled steel handle with chuck that holds needle point and retracts into handle when not in use. No. 11A271. Complete, Each. **69c**  
No. 11A272. Extra Points. **19c**



### ④ Micrometer

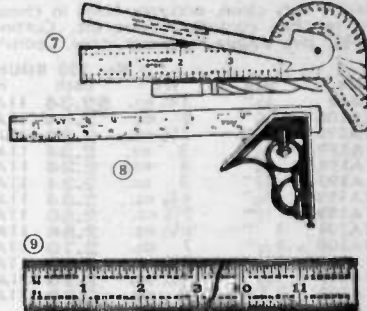
Precision tool. Measures 0" to 1" with great accuracy. Guaranteed correct to .0005". Screw type anvil makes zero adjustment easy. Die cast special alloy frame. No. 16B814. Each. **\$3.59**

### ⑤ 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. No. 11A193. Each. **\$1.41**

### ⑥ Jobbers Drill Gauge

Gauges fractional size drills  $\frac{1}{16}$ " to  $\frac{1}{2}$ ". Gives decimal equivalent of each. Made of heavy gauge tempered steel. No. 11A194. Each. **\$1.41**



### ⑦ Multi-Use Rule & Gauge

4" rule with 32nd and 64th scale, a drill point gauge; a square, a bevel protractor, a circle divider, center finder, and tap drill table. Stainless steel with leather case. No. 11A196. Net Each. **\$1.41**

### ⑧ Combination Square

A 12"x1" steel blade with clearly etched figures and graduations. Graduated in 8ths and 16ths on one side and 16ths and 32nds on the other. Black enameled beam is equipped with a level and scriber. No. 11A384. **98c**

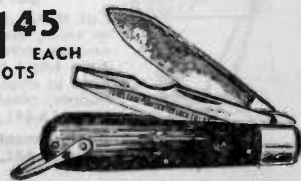
### ⑨ 12" Steel Rule

Stainless steel rule.  $\frac{7}{8}$ " wide graduated in 8ths, 16ths, 32nds and 64ths one side. 32nds, 64ths, 16ths on the other. No. 11A303. Each. **75c**

## UTICA "KUTMASTER" ELECTRICIANS' KNIFE

Standard  $2\frac{3}{4}$ " knife blade and a special screwdriver blade with insulation cutter and wire scraper. Screwdriver blade locks in open position. 3 $\frac{3}{4}$ " Rosewood handle with shackle ring, polished bolsters, and brass linings. Made to government specs. No. 60A119. **\$1.60** 12 Lots, **\$1.45** Each. **12 Lots, \$1.45** Each. **12 Lots, \$1.45** Each.

**\$1.45** EACH  
12 LOTS



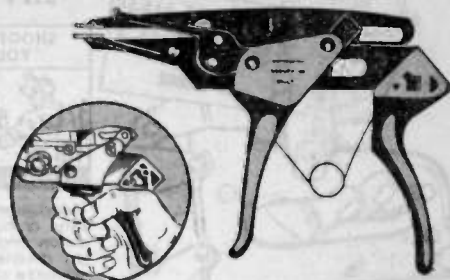
## REVOLUTIONARY NEW UTICA "STRIPWRIGHT" WIRE STRIPPER

MFG. LIST \$19.95

**\$14.95**

• Handles Teflon as well as other insulations.

REACHES INTO THE MOST CONFINED AREAS EASILY



The most versatile wire stripper ever made! Slim nose design makes it ideal for working on small electronic apparatus . . . reaches into the most closely confined areas. Handles routine wire stripping jobs with ease. Perfect for the serviceman, engineered for efficiency and ease of handling in production line use. Simple to use, 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. Gripping jaws hold wires firmly, keeps insulation marking at an absolute minimum. Adjustable stop permits insulation stripping up to  $\frac{1}{8}$ " per stroke. Comfortable cushion-grip handles eliminate hand fatigue even after hours of continuous use. Shpg. wt. 1 lb. No. 16A570. Model SW-1. Each. **\$14.95**

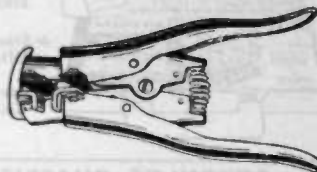
## DELUXE AUTOMATIC WIRE STRIPPER

STRIPS WIRE SIZES 10 TO 22 FAST . . . CLEAN

• Highest quality pressed steel construction.  
• "Stay-open" feature to prevent crushing of wire.

New improved version of an old favorite. Popular for years among radio-men everywhere because of its many exclusive features . . . particularly designed for electronics work but equally effective for electricians, linemen, etc. Easy to use—just insert wire and squeeze handle. Automatically strips insulation away neatly and quickly with hardened steel, precision ground replaceable type blades. Shpg. wt. 1 lb. No. 16B243. Mfg. List \$9.90. Net Each. **\$5.81**

No. 16B244. Replacement Blade. Each. **\$1.62**





# Tackers, Punches, Etc.

## ARROW AUTOMATIC STAPLE TACKERS



### JIFFY NAILING KIT



Handsome tool value for any serviceman or home craftsman. Durable, precision engineered, chrome tacker works on double leverage principle. Just a squeeze of the hand drives staples into work with powerful penetration. 10 times faster than hammer and nails. Fastens wall boards, ceiling tile, upholstering material, and scores of other work.

Kit is complete in attractive package with T-50 Gun, 5M Staples in 4 sizes (1/4", 3/8", 1/2", and 5/8") and handy staple remover. Shpg. wt. 5 lbs. Mfg. List \$15.50.

22B274. Complete Kit. **\$12.83**  
Model T-50 Gun only. Mfg. List \$12.50. Shpg. Wt. 2 lbs. No. 22B188. Net Each. **\$10.41**

STAPLES FOR MODEL T-50 GUN			
Stk. No.	Leg Lgth.	Wt.	Box 5000
22B189	1/4"	1 1/2 lbs.	<b>\$2.08</b>
22B190	3/8"	2 lbs.	<b>2.29</b>
22B191	1/2"	2 1/4 lbs.	<b>2.70</b>
22B192	5/8"	2 1/2 lbs.	<b>2.92</b>

### AUTOMATIC CABLE & WIRE STAPLERS



MFG. LIST \$15.00

**\$12.49**

INSTALLATION COSTS CUT OVER 70%

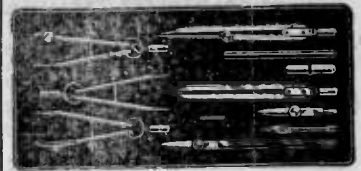
Time-saving, cost-saving tools that provide for easier and far more efficient installation of wire and cables. Powerful single stroke action drives staple accurately into desired position—in close corners, hard-to-get-at places, anywhere. Built-in groove guide base eliminates danger of damaging wires—staple never even scratches protective sheathing. Staples are resin coated for greater holding power—they stay put.

Model T-25 for wire up to 1/4" in diameter. Wt. 1 lb. No. 22B246. Net Each. **\$12.49**

Model T-75 for cable up to 1/2" diameter. Wt. 2 lb. Mfg. list \$18.00. No. 22B245. Net Each. **\$14.99**

STAPLES FOR ABOVE GUNS			
Stk. No.	For Model Leg Lgth.	Bx. 1000	Net Each
22B247	T75 3/8"		<b>\$1.88</b>
22B248	T75 7/8"		<b>2.08</b>
		Bx. 5000	
22B249	T25 7/8"		<b>3.33</b>
22B281	T25 1 1/8"		<b>3.74</b>

## DRAWING SETS



WORTH OVER \$5.00 ONLY **\$2.79**

Engineers quality 11 piece German made drafting set. 4 1/2" compass with pen and pencil part, 4 1/2" divider, 3 1/2" ruling pen, 1 each of 3 1/2" bow pencil, bow divider and bcw pen all heavy nickel plated brass in felt lined container. \$5.00 value. No. 37B175. Special, Each. **\$2.79**

### DRAWING BOARD SET

18x24" drawing board of high grade 3/4" basswood and with end cleats for added strength plus 24" well seasoned hardwood T-square. No. 36A200. Per Set. **\$3.49**

### RADIO RULE

Makes symbols indicating tubes, meters, coils, transformers—all parts in chassis. Pocket size. With directions. No. 11A314. Each. **90c**



- T-50 GUN TACKER
- 5000 Assorted Staples
- Staple Lifter
- Handy Case

## 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	Net
11B40	1/2"	1 3/4 oz.	<b>\$2.34</b>
11A206	3/8"	2 oz.	<b>2.34</b>
11A299	5/8"	2 1/4 oz.	<b>2.34</b>
11A389	3/4"	3 oz.	<b>2.34</b>
11A198	3/4"	3 oz.	<b>2.34</b>
11A390	3/4"	3 oz.	<b>2.34</b>
11A199	7/8"	4 3/4 oz.	<b>2.34</b>
11A209	7/8"	5 1/4 oz.	<b>2.56</b>
11A201	1"	6 1/2 oz.	<b>2.56</b>
11A300	1 1/8"	7 oz.	<b>2.70</b>
11A200	1 1/8"	7 1/4 oz.	<b>2.70</b>
11A215	1 1/8"	7 3/4 oz.	<b>2.70</b>
11A202	1 1/8"	8 oz.	<b>2.70</b>
11B371	1 1/8"	9 oz.	<b>4.95</b>

No. 732 "KEYWAY PUNCH"			
No.	Size	Wt. Each	Net
11A203	1 1/4"	9 3/4 oz.	<b>\$2.70</b>
11A204	1 3/8"	10 1/2 oz.	<b>3.24</b>
11A205	1 1/2"	12 oz.	<b>3.69</b>
11A352	1 5/8"	15 lb.	<b>4.36</b>
11A353	1 3/4"	1 1/2 lb.	<b>4.95</b>
11A354	1 7/8"	1 1/2 lb.	<b>6.16</b>
11A355	2"	1 3/4 lb.	<b>6.66</b>
11A212	2 1/8"	2 lb.	<b>9.90</b>
11A222	2 1/4"	2 1/2 lb.	<b>7.15</b>
11A213	2 1/2"	2 1/2 lb.	<b>11.70</b>
11A214	2 3/4"	3 lb.	<b>16.20</b>
11A391	2 3/4"	3 1/2 lb.	<b>11.25</b>
11A217	3"	3 3/4 lb.	<b>22.50</b>

No. 733 "D" HOLE			
No.	Size	Wt. Each	Net
11A392	1 1/2"	6 oz.	<b>\$4.36</b>
11A337	3/4"	4 3/4 oz.	<b>4.50</b>
11A338	3/4"	6 3/4 oz.	<b>5.13</b>
11A443	7/8"	7 oz.	<b>5.89</b>
11A339	1"	8 3/4 oz.	<b>6.12</b>

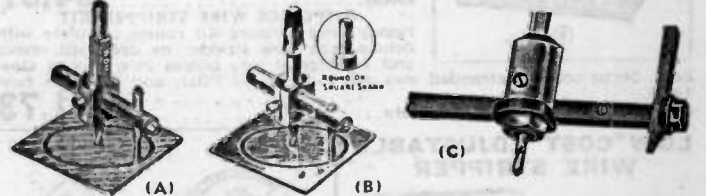
### HAND OPERATED NIBBLING TOOL

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. 11A441. Net. **\$3.85**  
Replacement Punches for Nibbling Tool. No. 11A442. Net. **\$1.68**

## CIRCLE CUTTERS



ALL PURPOSE TYPE  
For cutting round holes in metals, wood, plastics, etc. Drill acts as center pilot, keeping cutter in constant alignment. Cross bar and cutting bits are easily adjusted. May be used in slow speed drill press or hand brace. Cutting bits are of high speed steel.

(A) PAWOOD Type 5. Cuts holes 1" to 5 1/2" diameter.  
(B) PAWOOD Type 4. Cuts holes 7/8" to 4". Combination square and 1/4" round shank.  
No. 11A181. Round Shank. Choice Ea. **\$2.25**. No. 11A183. Net Each. **\$1.78**  
No. 11A182. Square Shank. **\$2.25**. No. 11A183. Net Each. **\$1.78**  
No. 12A1501. Extra Cutter for types 4 or 5 listed above. Each. **\$5.2c**

(C) HEAVY DUTY TYPE—CUTS HOLE 1 1/2" TO 8"  
3/8" Hex shank fits either hand brace, or drill press. Removable 1/8" centering drill cutting bit and adjustable 3/8" square cutting bar are held in position by compression washer and take-up nut. No set screws—easy to adjust.  
No. 11A184. Each. **\$3.29**

### HAND STAPLER

Small and compact—carry with you anywhere—always at your fingertips for instant use.

1001 uses in workshop, home, school. Lightweight, fits hand comfortably. Handsome two-tone brown and nickel finish. Shpg. wt. 10 oz.

22C271. Model JB/66 **\$1.24**  
Net Each. **.29c**  
22C272. Box of 1200 Staples. **.29c**

### BURRING REAMERS

High grade chrome vanadium burring reamers rapidly remove burrs from chassis cutoffs, antenna mass cutoffs, etc. Also handy for enlarging holes.

① T-Handle Type. Tapers 1/8" to 1/2". No. 11A188. Each. **\$1.40**  
② Bit-Shank Type. Tapers 1/8" to 1/4". No. 11A321. Each. **\$1.95**  
③ Bit Shank Type. Tapers 1/4" to 2". No. 11A191. Each. **\$3.50**  
④ Fixed Handle Type. Tapers 1/8" to 3/8". No. 11A250. Each. **\$1.41**  
⑤ Fixed Handle Type. Tapers 1/4" to 1/2". No. 11A251. Each. **\$1.74**

### KRAEUTER 7-IN. SNIPS

High quality drop forged steel shears. Shaped to cut straight as well as right or left curves. Shearing action full length of 1 3/8 inch polished blades. Hard black enameled handles. Lgth. 7 in. Shpg. wt. 6 oz.

16A542. Type K13. Each. **\$1.76**

### ADJUSTABLE HANDLE FOR FILES, REAMERS ETC.

Self-equalizing parallel jaws provide positive vise-like grip of long handle tools such as hack saw blades, files, reamers, etc. Hardwood handle. All other parts steel. Size 4 1/2"

No. 11B80. Each. **83c**

# Cabinets and Embossing Tools

## AKRO-MILS METAL STORAGE UNITS WITH CLEAR PLASTIC DRAWERS

NO MORE FRANTIC SEARCHING FOR MISPLACED ITEMS

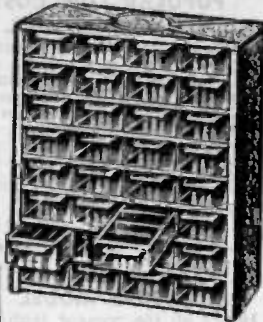


All metal cabinets have handsome hammertone gray baked on enamel finish. May be placed on bench or hung on wall. Stacks side by side, back to back, or one on top of the other. Molded plastic drawers are crystal clear, lifetime guaranteed, spillproof, and divide lengthwise or crosswise into several compartments. Saves space, contents always fully visible, dust-proof easily indexed. Labels and drawer dividers included

### DELUXE "HAZ-BIN" JR. SERIES CABINETS

Space conserving metal small parts cabinets for workshop, store, home, etc. All have 5 7/8" L x 2 3/4" W x 1 1/8" H clear plastic drawers. Supplied with index labels and 1 long and 3 short dividers for every four drawers. Cabinets are 6" deep. #J-32SD supplied with one 5 7/8" L x 11 1/2" W x 3 1/8" H steel drawer at bottom of cabinet for storing large parts, tools, etc.

**\$4.88**  
12 DRAWERS



Stock No.	Model No.	No. of Drawers	Height	Width	Wt. Lbs.	Net Each
40885	J-12	12	6"	12 1/2"	6	\$ 4.88
40886	J-16	16	8"	12 1/2"	8	6.35
40887	J-20	20	10 1/8"	12 1/2"	9	7.33
40888	J-32	32	15 1/4"	12 1/2"	10 1/2	11.74
40860	J-48	48	22 1/2"	12 1/2"	18	18.60
40892	J-32SD*	24	15 1/4"	12 1/2"	12	12.23

### POPULAR "E-Z FIND" CABINETS

WITH LARGE FULL WIDTH DRAWERS

Full width 12 x 5 7/8 x 1 1/8" H. Drawers, each divided into 4 large compartments with dividers supplied for up to 8 smaller compartments. Overall depth all cabinets.

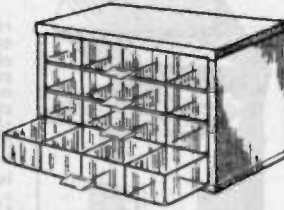
16 Compartments (4 full width drawers) 7 1/2" H x 12 1/2" W. Wt. 7 lbs.  
No. 40889. Model 16-V.

24 Compartments (6 full width drawers) 10 1/2" H x 12 1/2" W. Wt. 9 lbs.  
No. 40890. Model 24-V

32 Compartments (8 full width drawers) 14" H x 12 1/2" W. Wt. 12 lbs.  
No. 40891. Model 32-V.

Net Each \$4.68  
Net Each \$6.86  
Net Each \$8.82

4 Full Drawers **\$4.68**



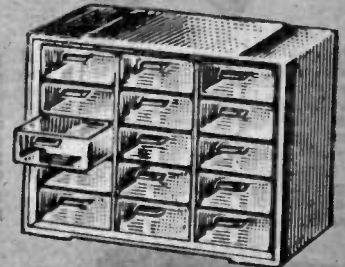
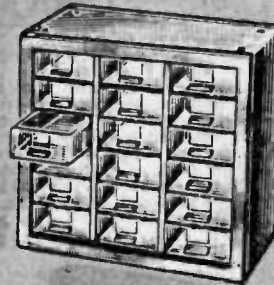
## NEW "HANDY-BIN" ECONOMY CABINETS AT LOWEST PRICE EVER!

18 DRAWERS

**\$3.99**

9 DRAWERS

**\$1.99**



Now a low cost small parts cabinet to fit the needs of everyone! Keeps small items neatly arranged, always ready for instant use. Durable built for shop use, handsomely designed for home or office. Clear plastic see-through drawers.

### HANDY-BIN STEEL CABINETS

Strong, welded steel cabinets can be used singly, stacked or hung on wall. 2 3/4" W, 1 1/4" D, 5 3/4" L clear plastic drawers with metal dividers can be divided into two or three compartments. Complete with index labels and one divider per drawer. All cabinets are 6" deep.

18 Drawers. 10" W. x 9 1/8" H. Wt. 6 lbs.

No. 36C193. Model 18HB-A. Each. . . . \$3.99  
24 Drawers. 13 1/8" W x 9 1/8" H. Wt. 7 lbs.

No. 36C194. Model 24HB-A. Each. . . . \$5.29

### HANDY-BIN ALL PLASTIC CABINETS

Made of breakproof styrene, can be used singly or stacked one on top of the other. 2 3/4" W, 1 1/4" D, 5 3/4" L clear plastic drawers have plastic dividers, can be divided into an infinite number of compartments. All cabinets are 6 1/4" deep.

9 Drawers. 10" W x 5" H. Wt. 2 1/2 lbs.

No. 36C189. Model 9HB-A. Net Each. . . . \$1.99

15 Drawers. 10" W x 7 1/2" H. Wt. 3 1/2 lbs.

No. 36C190. Model 15HB-A. Net Each. . . . \$2.99  
21 Drawers. 10" W x 10 3/8" H. Wt. 5 1/2 lbs.

No. 36C191. Model 21HB-A. Each. . . . \$3.99

## REVOLUTIONARY NEW TOOLS MAKE PROFESSIONAL EMBOSSED LABELS, NAME PLATES

### DYMO PROFESSIONAL MODEL M-2

PRINTS ACROSS OR UP-AND-DOWN ON PLASTIC OR METAL—FOR JUST PENNIES!

Dymo-Mite embosses raised white letters or numerals on choice of colored, pressure sensitive vinyl tapes, or plain raised letters on metal tapes for identifying tools, parts bins, switch boxes, controls, lockers—anywhere, everywhere, indoors or out. As easy as dialing a telephone. (1) Load tape roll in handy magazine handle; (2) Emboss by simply rotating lettered dial to spellout desired words; (3) Cut-off embossed label with attached cutter.

CHOICE OF HORIZONTAL AND/OR VERTICAL TAPEWRITERS

M-2 Tapewriter. Makes horizontal labels only. No. 47A99. Net Each. . . . \$34.95

Horizontal/Vertical M-2 Kit. Complete with M-2 Tool and "quick-change" horizontal and vertical wheels for both across and up-and-down embossing. No. 47A99. Type 1024. Wt. 3 lbs. Net Each. . . . \$42.95

Vertical "Quick-change" wheel. Equips any M-2, M-2C or M-3 machine to make vertical lettered labels. No. 47A92. Type 7502. Net Each. . . . \$13.10

### PLASTIC AND METAL TAPES FOR ABOVE TOOL

Tapes with adhesive are pressure sensitive, adhere to most clean surfaces. Tapes without adhesive have plain back for brad mounting or gluing. 141 Series have satin finish, 158 glossy finish.

Mfg. No.	Color	Description	Size	Per Roll
158-C	Clear	Vinyl Tape with Adhesive	12"x1/2"	\$1.65
158-BK	Black	Vinyl Tape with Adhesive	12"x1/2"	1.65
158-R	Signal Red	Vinyl Tape with Adhesive	12"x1/2"	1.65
158-B	Blue	Vinyl Tape with Adhesive	12"x1/2"	1.65
158-G	Green	Vinyl Tape with Adhesive	12"x1/2"	1.65
158-Y	Yellow	Vinyl Tape with Adhesive	12"x1/2"	1.65
141-B	Blue	Vinyl Tape with Adhesive	12"x1/2"	1.65
141-BK	Black	Vinyl Tape with Adhesive	12"x1/2"	1.65
141-G	Green	Vinyl Tape with Adhesive	12"x1/2"	1.65
141-R	Red	Vinyl Tape with Adhesive	12"x1/2"	1.65
310		Aluminum Metal Tape Without Adhesive	16"x1/2"	.65
325		Stainless Steel Without Adhesive	21"x1/2"	1.25
358		Aluminum Metal Tape with Adhesive	12"x1/2"	1.65
348		Copper Tape Without Adhesive	21"x1/2"	.75

### PLASTIC TAPES FOR M-5 ECONOMY MODEL

Adhesive backed, pressure sensitive vinyl tapes. Glossy finish, in handy quick-change disposable magazines. 120x3/8", wide per roll. Specify Color: Black, Red, Blue, Green, Yellow or Clear. No. 47A94. Per Roll. . . . \$1.25



**\$34.95**

### NEW ECONOMY MODEL TAPEWRITER

**\$24.95**

Tapes listed left below

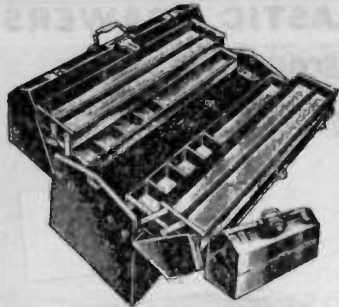


MAKES EMBOSSED LABELS IN SECONDS

Now everyone can make their own name plates for luggage, sports equipment, tools, etc.—plus hundreds of identification labels for the home, office or shop with this new low cost version of the famous Dymo-mite embossing tool. Easy to operate—just dial letters and numerals—they come up instantly, crisp white raised letters against a colored background. Cut off finished label with attached cutter and you are ready to apply it immediately—inside, outside—anywhere. New smaller series pressure sensitive tapes are supplied in a handy throw-away magazine—loads in a flash, just discard when empty. Shpg. wt. 10 oz. No. 47A95. M-5 Dymo-Mite Tool. Each. . . . \$24.95



# Tool and Parts Chests, Visas



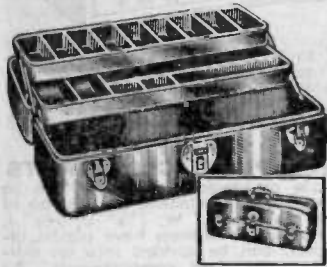
## MASTER TOOL BOX

Provides the space for keeping all those needed tools, parts, etc. in one compact place—easy to find when needed. Constructed of heavy-gauge steel with combination lock seam and spot weld. Extra reinforced corners. Overall size 18" long x 10½" wide x 13" high. 4 cantilever trays. Gray metallic finish. Wt. 21 lbs. No. 36A119  
**Net Each..... \$12.79**



## "REMOVABLE" TRAY BOX

Finest quality steel with two bolt catches; built-in padlock eye; rust-proof handle. Full lock-seamed construction, rounded reinforced corners. Continuous type hinge with lid opening entirely back. Gray ripple finish. Handy Tote Tray, 21½x8½x1½". Overall size 22x9x8". Wt. 12 lbs. No. 40C101  
**Net Each..... \$8.19**



## PARTS & TOOL CHEST

Designed particularly for the serviceman. Space is provided for carrying small parts as well as tools. Contains main tool compartment and two trays for resistors, condensers, etc. Rigid full-drawn, seamless construction with rounded corners and embossed tapered cover. Hard baked enamel finish. Size 19" L, 7¼" W, 7" H. Shpg. wt. 7 lbs. No. 37A230  
**Each..... \$4.69**



## GENERAL 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 14½" L, 7¼" W, 6" H. Shpg. wt. 4 lbs. No. 37A231. Each.....  
**\$2.62**



## HANDY SWING BINS

Handy to have in garage, workshop, kitchen—anywhere. Keeps small items easily accessible for ready use. Attaches securely to wall, tabletop, or ceiling with only 2 screws. Crystal-clear plastic drawers, 2½" W. x 1½" D. x 9½" L. Revolves 360 degrees on weighted pedestal base. Movable dividers provide up to 4 compartments in each drawer. Wt. 2 lbs. No. 36A198. 6 Drawer.....  
**\$1.99**



## AMAZING NEW HAM-R-TOOL AT LOW PRICE EVERYONE CAN AFFORD

**\$5.98** EASY AS DRIVING A NAIL INTO WOOD

Securely fastens wood, steel, etc. to concrete, brick, steel and mortar in just seconds.

Fast, sure way to perform hundreds of difficult fastening jobs in home and shop. Ham-R-Tool holds fastener studs firm for driving into concrete, brick, steel and many other materials—provides maximum holding power. Ideal for attaching 2x4" studs to concrete floors and walls, installing machinery and built-in cabinets—plus hundreds of other jobs at amazing low cost. Gives true professional quality and appearance. Has hard rubber grip with flared top to protect hand when driving. Shpg. wt. 2 lbs. No. 11A290. Special Each.....  
**\$5.98**

### FASTWAY STUD PINS

Made of tenite butyrate and pulverized metallic aluminum, zinc plated.							
(1) Drive Pins				(2) 10-24 Threaded Studs			
Stk. No.	Length	Box Of	Per Box	Stk. No.	Length	Box Of	Per Box
11A293.	¾"	17	79c	11A333.	1 1/8"	12	79c
11A294.	1"	13	79c	11A334.	1 1/4"	11	79c
11A295.	1 1/4"	11	79c	(2) ¼"-20 Threaded Studs			
11A296.	1 1/2"	9	79c	11A336.	1 1/2"	10	79c
11A304.	2"	9	79c	11A346.	1 3/4"	9	79c
11A305.	2 1/2"	8	79c				
11A312.	3"	7	79c				

## POPULARLY PRICED TUBE AND TOOL CARRIERS

ESSENTIAL FOR "OUT-OF-THE SHOP" WORK!

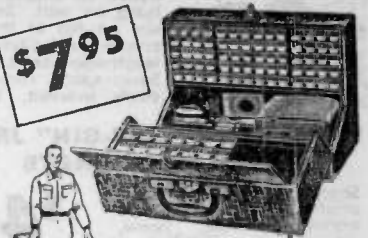
### DELUXE FEATURES

- Large Tube & Tool Capacity.
- Lightweight for easy carrying.
- Professional appearance.
- Durably built to take abuse.

### POPULAR LOW-COST ECONOMY MODEL

Lightweight, easy to carry, yet with large capacity for carrying up to 100 tubes plus tools. Special design for easy identification and accessibility of both tubes and tools. Attractively covered in washable plastic coated grey tweed fabric giving modern professional appearance. Sturdily constructed for lasting service. Size 16" wide x 12½" high x 8" deep. Shpg. wt. 9 lbs. No. 40B165. Net Each. **\$7.95**

**\$7.95**



### NEW MEDIUM COST LARGER MODEL

Here's all the popular features of the above model, now available in a large, roomier case. Space provided for carrying an additional 100 tubes (over 200 in all) plus more space for tools, small meters, etc. A wonderful buy for the serviceman having need for the extra capacity. Measures 21" wide x 15" high x 8" deep. Shpg. wt. 12 lbs. No. 40B167. Net Ea. **\$11.95**

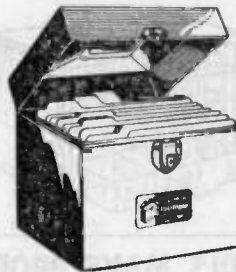


ROOM FOR OVER 200 TUBES

**\$11.95**

## "FILE-A-WAY" PERSONAL FILES

FOR HOME - OFFICE - SHOP



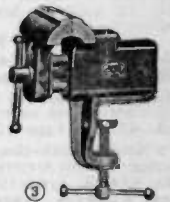
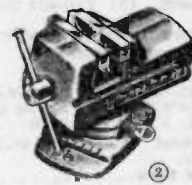
Handiest files ever! Important private papers always easy to locate... keep a File-A-Way for each calendar year and solve your lost paper problems at income tax time. Portable, take it anywhere—carrying handle is recessed for stacking if desired. Has snap lock with key for privacy. All steel construction with finish of pleasing durable baked on litho gray. Both sizes contain a complete set of index folders.

No. 36A55. Jumbo File-A-Way, size 12½" W x 10" H x 9" D. Shpg. wt. 5 lbs. **\$2.97**  
 Each.....  
 No. 36A54. Regular File-A-Way, size 12½" W x 10" H x 5" D. Shpg. wt. 4 lbs. **\$2.39**  
 Each.....

## HANDY CHECK FILE

No more lost or misplaced cancelled checks! Just file them by month and they're always at hand for immediate reference. Supplied with complete set of monthly index folders. Size 9" W. x 9" L. x 4½" H., otherwise identical to above files. No. 36C59. Each.....  
**\$2.39**

## WILTON QUALITY VISAS



### ① WILTON MIDGET POWRARM AND VISE

Finest addition to any engineer's or experimenter's work bench. Unique PowrArm Vise combination securely locks work in most advantageous position. Release lever allows instantaneous changing of vertical and/or horizontal position. Steel vise jaws are 2¼" wide, open to a maximum of 2¼". PowrArm is made of rugged cadmium plated steel. Bolts to any flat surface. Shpg. wt. 5 lbs. No. 22A58. Model 364. Net Each.....  
**\$13.65**

### ② WILTON HOBBY VISE

Low priced, high quality precision built vise, specifically designed to handle small intricate work. Ideal for model shops, hobby projects, and miniature electronic work. Features one-piece body, fully protected lead screw, removable steel jaws, and bolt mounting swivel base. Capacity 2¼" jaw width 2¼". Red baked enamel finish. Shpg. wt. 6 lbs. Mfg. List \$5.30 No. 22B311. Net Each.....  
**\$3.90**

### ③ WILTON CLAMP-ON VISE

A precision built tool at low cost. Solid clamp base with positive locking screw secures vise to table, bench—anywhere on wood up to 2" thick. Twin guide construction. 2½" wide hardened steel jaws open to maximum of 2¼". Red enamel finish. Wt. 3¾ lbs. No. 22B197. Model 1112. Mfg. List \$4.10. Net Each.....  
**\$3.02**

# Precision Hobby Tools

## ELECTRIC GRINDING AND ENGRAVING TOOL SETS

## SENSATIONAL NEW BURGESS MARKING AND ENGRAVING TOOL

POWER TOOL AND 45 OF THE MOST POPULAR ACCESSORIES

MFG. LIST \$32.95

**\$23.95**



The ultimate in professional quality equipment—an extremely practical combination for craftsmen, hobbyists, servicemen, industrialist, etc. It's a whole shop full of tools in one, priced unbelievably low—you would usually expect to pay considerably more for a comparative set.

Features the deluxe "Handee" electric tool acclaimed for its remarkable speed, power, versatility, and long service life... plus a complete assortment of fine accessories that assure maximum utility.

**Tool Specifications:** Handles as easily as a pencil. Small in size, only 6" long, weighs 14 oz. Fits snugly in the palm of the hand, gets into those hard-to-get-at-places. Speed 25,000 RPM, ample for all requirements. Spring collet chuck holds accessories firmly. Newly designed motor provides more dependable service with extra power for all jobs. Uses replaceable type carbon brushes. Sturdy bakelite case covers all moving parts. UL approved Cord and Plug for 110 volt 25 to 60 cycle AC operation.

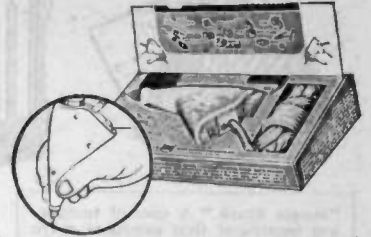
45 Accessories included to grind, polish, cut, carve, sand, saw, engrave, etc. Does 1001 jobs quickly, simply, and with precision. All packed in handy compact steel carrying case. Wt. 4½ lbs. No. 37A349. COMPLETE SET **\$23.95**



MARKS AND ENGRAVES ANY MATERIAL, EASIER, BETTER, FASTER, AT LOWER COST

MFG. LIST \$12.95

**\$9.49**



Permanently identifies all types of tools, marks parts, frosts glass, tools leather... "writes" on the hardest steel, aluminum, wood, plastics, copper, ceramics, stone, and many other materials. Does hundreds of jobs easier and faster—handles like a pencil—anyone can use it. Ideal for the hobbyist and shop, perfect for industrial use. Comfortable new hand-rest design plus small size and light weight permits continuous use without tiring the operator. Reciprocating 110 volt 60 cycle AC motor delivers 7200 strokes per minute for fast, clean work. Control wheel adjusts "impact" for fine, medium or coarse stroke. Unbreakable polypropylene housing. Supplied complete with hard tantalum point. Shpg. wt. 1 lb. Mfg. list \$12.95 No. 20A194.

Each **\$9.49** 3 Lots, Each **\$8.63**  
No. 16A352. Extra Point. Each **\$1.33**  
No. 20B216. Diamond Point. For extra heavy-duty marking needs. **\$4.96**

## FAMOUS DREMEL MOTO-TOOL KIT NATIONALLY ADVERTISED IN LEADING MAGAZINES

MFG. LIST

**\$18.42**

\$23.50



Now for the first time, at a low cost, a high quality power tool and accessory kit designed to do small precision jobs. Ideal for hobby work, lab use, schools, repairman, model makers, dentists, opticians, etc.

Grinds, polishes, carves, drills, sands and saws. High speed—approximately 25,000 RPM. Does in seconds those time consuming jobs that are difficult to do with ordinary hand tools. Wrenchless collet chuck provides easy convenient means of changing tools. Universal motor operates on 110-120 volt 60 cycle AC or DC. Has oilless self-aligning bearing mounted in felt retainers. Switch allows fingertip control for rapid start and stop or for continuous operation. Tool only 1¼" diam. 5½" overall length.—Weights only 6 ounces. Kit includes Moto-Tool with chuck and 3 collets: ⅜", ⅝", ⅞". 8 steel cutters, 4 emery wheel points, ⅜" drum sander, dressing stone, 4 mandrels, 3 bristle brushes, 3 cut-off wheels, 2 rubber polishing wheels, 5 polishing and sanding accessories. All in attractive fitted steel case. Shpg. wt. 4 lbs. No. 37A413. Dremel Model No. 1. Net Each **\$18.42**

### HOBBY POWER TOOL ACCESSORIES

#### Emery Wheel Points

Stk. No.	Fig.	Dia.	shank.	Lgth.	Net Ea.
16A783	1	1/4"	3/8"	5/8"	\$0.40
16A784	2	3/8"	3/8"	3/4"	.40
16A785	3	1/2"	3/8"	3/4"	.40
16A786	4	3/4"	3/8"	1/2"	.40
16A797	5	1/2"	3/8"	1/2"	.40

#### Silicon Grinding Points

For working on hard steel, writing on glass and other hard materials. All have 3/8" shank.

No.	Net Ea.	No.	Net Ea.
16A806	.32c	16A809	.32c
16A807	.32c	16A810	.32c
16A808	.32c	16A811	.32c

#### Steel Carving Cutters

No.	Net Ea.	No.	Net Ea.
16A812	.79c	16A816	.79c
16A813	.79c	16A817	.79c
16A815	.83c	16A818	.71c

#### Chuck Collets

No. 16A819. Accommodates 3/8" to 1/2" shank. Each <b>.44c</b>
No. 16A820. Accommodates 1/4" to 3/8" shank. Each <b>.44c</b>
No. 16A821. Accommodates 1/8" to 1/4" shank. Each <b>.44c</b>

### X-ACTO PRECISION CUTTING TOOLS FOR HOBBY AND INDUSTRY

#### X-ACTO INTERCHANGEABLE BLADES



#### KNIFE CHEST



**\$12.50**

**\$4.50**

#### HOBBY CHEST



#### DELUXE KNIFE & TOOL CHEST



**\$18.75**

Complete Workshop for Hobbyist & Model Builder

Surgically keen sharp knives and cutting tools of finest quality steel. The first choice of model builders and hobby craftsmen for years—extensively used by engineers and production line workers in many types of industry.

#### INTERCHANGEABLE BLADE PRECISION KNIVES

Finger-tip knurled chucks provide fast, easy changing of blades.  
 ① Type 1-ST. For light to medium work. Aluminum handle 5" long, 1/8" dia. No. 16A825. Complete with Type 11 Blade. Ea. **.60c** \*12 Ea. **.45c**  
 ② Type 5-ST. For heavy work. Plastic handle, metal blade lock, 4 3/4" long. No. 16A827. Complete with Type 19 Blade. Ea. **\$1.20** \*12 Ea. **.90c**  
 ③ Type 2-ST. For medium to heavy work. Aluminum handle. 5" long, 1/8" dia. No. 16A826. Complete with Type 22 Blade. Ea. **.75c** \*12 Ea. **.56c**

\*May be assorted for Quantity Prices.

#### INTERCHANGEABLE BLADES

Stock No.	Type	Fits Knife	Application	Pkg. of 5 Ea.	Pkgs. of 12 Ea.
16A829	11	1-ST	Fine Angle Cutting, Deep Cuts	60c	45c
16A830	16	1-ST	Small Holes, Notches, Stencils	60c	45c
16A831	19	2-ST, 5-ST	Light Chiseling, Rough Shaping	60c	45c
16A834	23X	2-ST, 5-ST	Double-Edge for limited space areas	60c	45c
16A828	10	1-ST	Fine Cutting, Carving	60c	45c
16A833	22	2-ST, 5-ST	Long Cuts, Whittling	60c	45c

④ Razor Saw Blade. For fine and accurate cross-cutting, trimming and notching of metal, wood and plastic. Use with type 5-ST knife

No. 16A835. Type 34-ST. 3/4" wide blade. Each **.40c** \*12 Each **.30c**

No. 16A836. Type 35-ST. 1" wide blade. Each **.45c** \*12 Each **.34c**

\*May be assorted for Quantity Prices.

#### X-ACTO KNIFE CHEST

Contains all the knives and blades needed for carving and cutting jobs in wood, plastic, leather, etc. Ideal for the beginning hobbyist—always handy to have around the shop. Includes: Types 1-ST, 2-ST, and 5-ST knives at left plus 9 extra assorted blades. Natural finish wood chest. Shpg. wt. 1 lb. No. 36B237. Type 82. Net Each **\$4.50**

#### X-ACTO HOBBY CHEST

Popular set of the most often needed hobby tools for model building, wood carving, plastic crafts, etc. Ideal for the serious hobbyist—allows even the beginner to turn out top quality work. Includes: Two standard knives for light and medium cutting; heavy duty knife for tough cuts; complete assortment of blades, gouges, routers, and punches; planer; sander with sandpaper; spokeshave for heavy carving jobs; Balsa stripper for accurately cutting ribbing and siding; steel rule. Supplied in handsome natural finish fitted wood chest. Shpg. wt. 2½ lbs. No. 36B236 X-acto Type 86. Net Each **\$12.50**

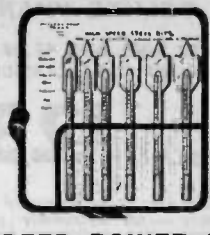
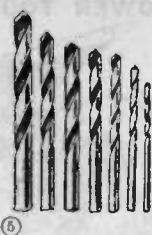
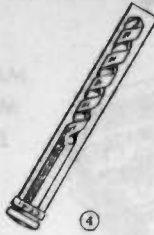
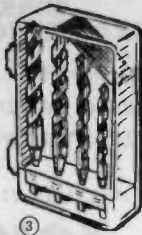
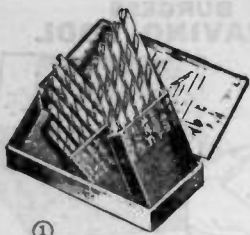
#### DELUXE KNIFE AND TOOL CHEST

Has every tool needed for the skilled craftsman to handle even the most intricate work! Carves, saws, drills, sands, routs, punches—performs hundreds of jobs in wood, plastic, metal and leather. Tough model building projects now become routine with this complete precision tool kit. Contains all the tools in above Hobby Chest PLUS Hobbycraft saw; extra blades, routers, gauges and punches; pin vise and hand drill with assorted drill bits. In big natural finish fitted wood chest. Shpg. wt. 3½ lbs. No. 36B235. X-acto Type 87. Net Each **\$18.75**



# Drills and Other Tools

## CENTURY "MAGIC BLACK" HIGH SPEED DRILLS AND SETS



**"Magic Black."** A special tempering treatment that produces extra wearing qualities—makes drill bits stay sharp much longer. "Quick-Cut Points" penetrate twice-as-fast with one half the pressure—will not "walk" or "wander." Greatly reduces load on electric drill.

**① MB3 DRILL SETS**  
13 high speed mechanics length drills. Sizes  $\frac{1}{16}$ " to  $\frac{1}{4}$ " by 64ths. Use with power or hand drill on metal, wood, plastic, etc. Handy Huot index container. No. 16A382. Per Set . . . . **\$5.87**

**② MB753 DRILL SETS**  
7 high speed drills. Sizes  $\frac{1}{16}$ " to  $\frac{1}{4}$ " by 32nds. Use with any power or hand drill on metal or wood, plastic, etc. In plastic case. No. 16A667. Per Set . . . . **\$3.25**

**③ MB525 DRILL SET**  
5 high speed drills. Sizes  $\frac{1}{4}$ " to  $\frac{1}{2}$ ". All have  $\frac{1}{4}$ " shanks—makes possible their use in  $\frac{1}{4}$ " electric drills. Sizes  $\frac{1}{4}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ " and  $\frac{1}{2}$ ". All in handy clear plastic case. No. 16B840. Per Set . . . . **\$8.65**

**④ MASONRY DRILLS WITH 1/4-INCH SHANKS**  
For TV antenna installation and other work that requires drilling in concrete, plaster or brick. New precision machined oval flutes, narrow lands, and fast spiral assures clean, fast, accurate work in the toughest masonry. All sizes have  $\frac{1}{4}$ " shanks for use, if desired, in portable electric drills.

Stk. No.	Size	Length	Net Ea.
16A669	$\frac{1}{4}$ "	4"	<b>\$1.02</b>
16A670	$\frac{3}{8}$ "	4"	<b>1.22</b>
16A671	$\frac{1}{2}$ "	6"	<b>1.54</b>

**⑤ INDIVIDUAL DRILL BITS**  
High speed mechanics lengths drills Type 999PT. Packed individually in plastic cylinders.

Size	No.	Each	Size	No.	Each
$\frac{1}{16}$ "	16A474	<b>\$.31</b>	$\frac{1}{8}$ "	16A482	<b>\$.54</b>
$\frac{1}{8}$ "	16A475	<b>.31</b>	$\frac{1}{4}$ "	16A483	<b>.61</b>
$\frac{3}{16}$ "	16A476	<b>.32</b>	$\frac{3}{8}$ "	16A486	<b>.68</b>
$\frac{1}{4}$ "	16A477	<b>.32</b>	$\frac{1}{2}$ "	16A487	<b>1.11</b>
$\frac{5}{16}$ "	16A478	<b>.38</b>	$\frac{3}{4}$ "	16A488	<b>1.58</b>
$\frac{3}{8}$ "	16A479	<b>.38</b>	1"	16B497	<b>2.16</b>
$\frac{1}{2}$ "	16A481	<b>.47</b>	1 1/2"	16A910	<b>2.82</b>

**STANDARD SIZES**  
 $\frac{1}{16}$ " to  $\frac{1}{2}$ " dia. shanks.

Go.	No.	Fits Screw	Each
43	16B779	2-56	<b>\$0.27</b>
33	16B780	4-36, 4-40	<b>.31</b>
28	16B781	6-32	<b>.39</b>
18	16B782	8-32	<b>.46</b>
11	16B800	10-24	<b>.59</b>
10	16B801	10-32	<b>.59</b>
4	16B802	12-20	<b>.66</b>

**HI-SPEED POWER BITS CUTS UP TO 1-INCH HOLES IN WOOD, PLASTIC, PLYWOOD, ETC.**

● With  $\frac{1}{4}$ -inch Shanks for use with electric drills.

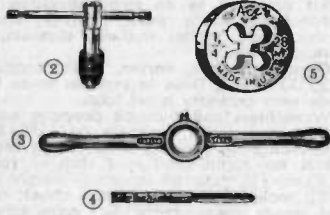
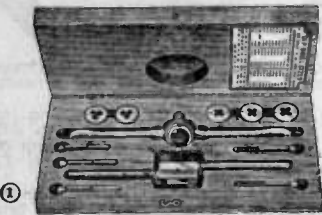
High speed steel bits of finest quality that cut fast and clean, even at angles, in hard or soft woods, plastics, plywood and similar materials. Encounters wire nails or screws without damage to the bit. Shanks are  $\frac{1}{4}$ " milled for standard 3 jaw chucks.

Set consists of 6 sizes— $\frac{3}{16}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ ",  $\frac{3}{4}$ ",  $\frac{7}{8}$ " and 1". Depth of cut  $\frac{5}{8}$ ". In handy plastic roll case. Mfg. List \$7.45

No. 37B167. Per Set . . . . **\$4.97**

12" Extension for extra deep drilling. Ideal for electricians, plumbers, etc. No. 37B166. **\$1.35** NET EACH.

## HANSON QUALITY TAP & DIE TOOLS FOR ACCURATE THREADING IN METAL



**① 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  $\frac{1}{4}$ -20 plus Tap and Reamer Wrench with hardened jaws, and ruggedly constructed die stock. Comes in handy mahogany box. Wt. 3 lbs. No. 22B187. PER SET . . . . **\$6.99**

**② TAP WRENCH**  
Sliding handle type with spring tension to hold handle in any desired position. Knurled chuck holds No. 0 to No. 12 taps. No. 16B346. Each . . . . **49c**

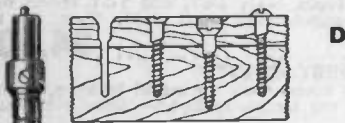
**③ DIE STOCK**  
Holds 1" O.D. dies for straight accurate cutting. Rugged construction for long service life. No. 16A593. Each . . . . **56c**

**④ TAPS**  
Made of high carbon, alloy steel.

No.	Size	O.D.	Each
12A1630	2-56	.086	<b>\$0.41</b>
12A1503	4-36	.112	<b>.30</b>
12A1504	6-32	.138	<b>.30</b>
12A1505	8-32	.164	<b>.30</b>
12A1506	10-24	.190	<b>.34</b>
12A1507	10-32	.190	<b>.34</b>
12A1508	$\frac{1}{4}$ -20	.250	<b>.38</b>

**⑤ DIES**  
1" O.D. solid dies. Made of high carbon, alloy steel.

Stk. No.	Size	O.D. Thd.	Each
12A1669	4-36	.112	<b>44c</b>
12A1670	6-32	.138	<b>44c</b>
12A1671	8-32	.164	<b>44c</b>
12A1672	10-24	.190	<b>44c</b>
12A1673	10-32	.190	<b>44c</b>
12A1674	$\frac{1}{4}$ -20	.250	<b>44c</b>



**"SCREW-DRILL" SET DRILLS! COUNTERSINKS! AND COUNTERBORES!**  
ALL IN ONE EASY OPERATION  
4 SIZES—#6, #8, #10, #12

The quick, sure way for screw driving in wood, plastic, fiber, sheet aluminum, etc. Chrome-vanadium drill bit with nickel plated hardened steel holder drills pilot hole, countersinks and counterbores to desired depth with adjustable stop indicator, all in one simple operation. Set consists of 4 sizes for #6, #8, #10 and #12 screws.  $\frac{1}{4}$ " shank fits all hand and electric drills. Mfg. List \$3.69. No. 16C227. Set of 4 . . . . **\$2.76**

**LEVEL-SQUARE-10 FT. RULE ALL-IN-ONE!**  
Now by the K & E Co., foremost mfg. of measuring instruments, a 10 ft.- $\frac{1}{2}$  in. wide "wyteface" rule, a square and an accurate unbreakable level, all contained in 2 x  $2\frac{3}{8}$  x  $\frac{3}{8}$ " thick, metal case, ideal for conveniently taking accurate "inside" measurements. No. 16B896. Each . . . . **\$1.49**

## BARGAIN PRICED POLISHING & SANDING KIT



For Use With Any  $\frac{1}{4}$ " Electric Drill. Hundreds of uses. Ideal for removing paint or rust—polishing automobiles, furniture, etc. Contents of Kit: Flexible 5" rubberhead polishing and sanding adapter with  $\frac{1}{4}$ " shank, 5" sanding disc, and genuine  $\frac{5}{8}$ " Lambswool Polishing Bonnet. No. 22B133. **88c** Each . . . .

Extra Sanding Discs. No. 14B579. Package of 6 . . . . **32c**

## WORK-SAVING ELECTRIC DRILL ACCESSORIES



**① ARBOR**  
For use of grinding wheels, wire wheel brushes and other attachments having  $\frac{1}{2}$ " mounting holes. Fits  $\frac{1}{4}$ " chuck or larger. No. 11A223. Net Each . . . . **44c**

**② EMERY GRINDING WHEEL**  
3" dia.,  $\frac{1}{2}$ " hole. No. 11A285. Net Each . . . . **59c**

**③ WIRE WHEEL BRUSH**  
3" dia.,  $\frac{1}{2}$ " hole. No. 11A286. Net Each . . . . **72c**

**④ BUFFING WHEEL**  
4-inch cloth buffing wheel. No. 16C228. Net Each . . . . **59c**

## 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. 16A909. **\$1.31** Net Each.

**① AUTOMATIC CENTER PUNCH**  
For simple and accurate punch marking before drilling. Just push and automatic internal spring loaded mechanism does the rest. No. 16A666. Each . . . . **\$3.14**

**② CAN'T-ROL CENTER PUNCH**  
No. 16A366. Each . . . . **35c**

**HI-SPEED COPE-SAW DRILL-BIT**  
NOW SAME HIGH QUALITY AT SENSATIONAL NEW LOW PRICE  
Works With Any Electric Drill  
DRILL, SAW, REAM metal, wood, plastic, etc. Drills own starting hole—upper part of bit is used to cut, saw or ream circles, ovals, squares or scrolls. Easy to operate, ideal for carpenters, mechanics, electricians, radiomen, hobbyists, etc. Abrasive resistant, high speed steel. Withstands severe continuous use without breaking.  $\frac{1}{4}$ " dia. Overall length  $3\frac{1}{2}$ ".  
**ALL PURPOSE BIT** for metal, wood, plastic, etc. Mfg. List \$3.95  
No. 16A673. Net Each . . . . **\$1.75**  
**WOOD BIT** specifically designed for plywood, beaver board, etc.—any type wood. No. 16A940. Net Each . . . . **\$1.75**  
**HEAVY METAL BIT.** For cutting heavy iron, steel, brass, aluminum, etc. No. 16A698. Net Each . . . . **\$1.75**

# Electric Drills, Scissors, Grinder

## THOR-SPEEDWAY EXCEPTIONAL VALUE ELECTRIC DRILLS

COMPARE WITH OTHERS AT \$22.95 RETAIL

**\$10<sup>95</sup>**

GEARED CHUCK WITH KEY



- Lightweight, well balanced, easy to handle.
- Extra powerful 2.5 amp motor.
- Operates smoothly and efficiently.

COMPARE WITH OTHERS AT \$29.95 RETAIL

**\$14<sup>95</sup>**

3/8-INCH GEARED CHUCK WITH KEY



- Powerful 925 RPM 3 Amp Motor.
- Well Balanced—Easy to Use.
- Costs less than many 1/4" Drills.

MFG. LIST PRICE \$34.95

**\$24<sup>95</sup>**

TWO POSITION HANDLE Vertical Horizontal



FEATURES TRUE HIGH POWER PLUS HANDLING EASE AT LOW, LOW COST

**THOR-SPEEDWAY  
1/4-IN. ELECTRIC DRILL  
AT LOW PRICE!**

**THOR-SPEEDWAY  
3/8-IN. ELECTRIC DRILL  
SENSATIONAL LOW PRICE!**

**THOR-SPEEDWAY  
EXCEPTIONAL 1/2-INCH  
ELECTRIC DRILL**

An unbelievable value for sure! Has many top-notch features as found only in drills costing several dollars more. For power, value and performance surpasses any other 1/4" drill we've seen at this low price. Powerful 2.5 amp universal series wound 115 V. AC motor, for home, shop and farm use. A real quality tool . . . now you can afford to have that extra drill to carry in the tool box. Full load speed 1500 RPM. Momentary contact switch has locking pin for continuous operation. Oilite bearings and hobbled steel gears for long trouble-free operation. Die cast aluminum housing has tough silicone bonded finish. Overall length 7 3/8". UL approved 3-wire cord and adaptor for 2 prong outlet. Net wt. 4 lbs. No. 37A336. Shpg. wt. 5 lbs. **\$10.95** Spec. Each

Extra powerful with features usually found only in drills costing a great deal more. The perfect drill for farm, home or shop. Extra power and capacity permits use in drilling concrete, stone, etc. The ideal all around drill. Heavy duty universal 115 V. AC motor has no load speed of 925 RPM, full load speed of 610 RPM. Oilite bearings and hobbled steel gears provide for long trouble-free life under rugged use. Lock-in button on drill handle for continuous running. Die cast aluminum housing has tough silicone bonded finish. Overall length 8 1/2". Net wt. 4 1/2 lbs. Supplied with UL approved 3-wire cord and adaptor for 2 prong outlet. Shpg. wt. 5 lbs. No. 37A339. **\$14.95** Special Each

• Full 6.5 Ampere Power Rating  
• Heavy-Duty Sealed Thrust Ball-Bearing on Spindle

Built throughout to professional standards . . . here is a truly terrific value to please every craftsman. Provides tremendous power for accomplishing the toughest jobs with the greatest ease—yet handles amazingly well. Has popular 3-jaw geared chuck with key. No load speed 550 RPM for highest torque. Polished aluminum alloy die-cast housing. Safety switch with push-button lock for continuous operation. Removable top handle. Universal 110 volt AC-DC motor. UL approved 3-wire cord and adaptor for 2 prong outlet. Length overall 14 3/8" (11 1/4" less rear handle). Shpg. wt. 12 lbs. Mfg. List \$34.95. No. 37A371. Special Net Each. **\$24.95**

### THOR SPEED-GRINDER



MFG. LIST \$19.95

**\$13<sup>95</sup>**

- Built-in water cooling tray and work holder.
- Portable or bench use.

Low priced, ruggedly constructed grinder packed with features found only in higher priced units. Perfect for hobbyists, model makers, home craftsmen, etc. Powerful, smooth running 3450 RPM motor has self oiling bearings to assure long life trouble-free operation. Has two 4 1/2" x 1/2" wheels, 1-40 grit and 1-70 grit. Adjustable tool rests make angle tool grinding easy. Wheels extend beyond housing to allow for "across the face" grinding. Weighs only 7 lbs. for easy portability, has mounting holes for permanent mounting. Die-cast aluminum housing 10" long, 6 ft. 3-wire cord and adaptor for 2-prong outlet. For 110-120 V. 60 cycle AC. No. 37B352. Model 116. Shpg. wt. 8 lbs. **\$13.95**

### THOR "SPEED-SNIPS" ELECTRIC SCISSORS



MFG. LIST \$7.97

**\$5<sup>95</sup>**

**FASTER - SAFER -  
EASIER FOR  
EVERY CUTTING  
JOB**

- Cuts Grill Cloth
- Drapery Materials
- Suiting, Etc.

Amazing new electric scissors eliminate tiresome hand cutting. Perfect for hi-fi installers, service shops, drapery makers, tailors, housewives . . . anyone requiring professional quality scissors. Safe even for children, fully approved by Underwriters Laboratories and C.S.A. Lightweight and easy to handle, non tiring even after hours of use. Precision ground steel blades stay sharp longer. Durable polystyrene case 5 3/8" L x 1 3/8" W x 2" H. Complete with long 10 foot cord. Wt. 6 ozs. No. 37A314. Net Each. **\$5.95**

### WEN SENSATIONAL 3/8-INCH TWO SPEED ELECTRIC DRILL

**FOR FIRST TIME!  
THE RIGHT SPEED  
FOR ALL JOBS**

- Powerful and husky but not bulky.
- Positive "D" grip handle.
- Rapid speed change—3000 RPM or 1000 RPM.
- Geared Key Chuck with Key.
- Universal 115 V. AC-DC 2 amp motor.
- Fully U/L approved.



MFG. LIST \$29.95

**\$22<sup>01</sup>**

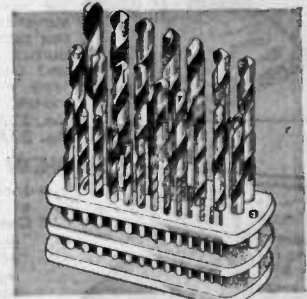
Now one heavy duty 3/8" drill for all drilling jobs formerly requiring two drills or speed reducing equipment. To change speed simply insert chuck in proper power take-off. In top position (A) full 3000 RPM for high speed drilling in thin metals, wood or for use of attachments for sanding, sawing, grinding, buffing, etc. Lower position (B) for jobs requiring lower speed (1000 RPM) and higher power as needed in drilling heavy steel, wood, etc. and for polishing, waxing, screw driving, paint mixing, etc. Auxiliary grip handle can be inserted in either side depending on which power take-off is being used, makes for perfect balance regardless of drill position. Outstanding design features: ball thrust bearings on both spindles, oversize oilite bearings, special wound maximum torque under load motor. Overall length 12 1/4" x 2 1/2" wide. Lustrous silver-gray finish. Geared key chuck, 6 ft. heavy duty cord. Wt. 4 1/2 lbs. Shpg. wt. 5 lbs. Mfg. List \$29.95. No. 37B199. **\$22.01** 3 Lots Each **\$19.97**

**HIGH SPEED DRILL SET  
BIG IMPORT VALUE  
TO SAVE YOU \$\$\$**

**29 DRILL BITS, SIZES 1/8"  
TO 1/2" BY 64THS**

Compare at  
Several Times  
This Low Price

**\$5<sup>79</sup>**

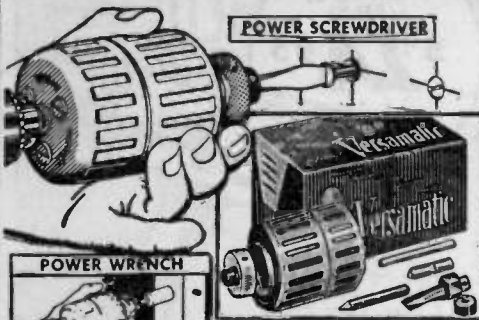


Complete set of high speed drills at an unbelievable low price! Precision ground of quality chrome vanadium steel for fast, accurate drilling in wood, plastic, metal, etc. All are standard jobber lengths, straight Shank type. Supplied in handy indexed metal stand. Quality Import. No. 16A580. Special Each. **\$5.79**



# Electric Drill Accessories, Torches, Peg Board

## SUPREME "VERSAMATIC" WONDER TOOL REVERSIBLE SCREWDRIVER & SPEED REDUCER FOR ELECTRIC DRILLS



POWER SCREWDRIVER

MFG. LIST \$14.95

**\$11.21**

**MOST VERSATILE UNIT OF ITS KIND YET PRODUCED.**

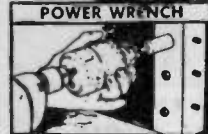
Fits directly into chuck of any drill—Boosts power 7 times—Converts any light duty drill for heavy work.

Will lighten the work-load of any mechanic... professional or amateur. Eliminates usually tough, tiresome hand work. Just look at what it does: Reduces the speed of a power drill by seven times, and through torque increases the power by a like amount. As a sensational added feature—runs in reverse with one easy twist; both drives and removes all screws, big or little... fast... safe! Drives and removes nuts— $\frac{1}{4}$ " socket drive included; with the addition of  $\frac{1}{2}$ " chuck similar to that listed below handles such heavy duty jobs as large diameter drilling with hole saws, auger bits, etc., in metal or masonry; plus precision tapping. Bits and taps last far longer, cut more efficiently. Complete ready to use with the parts needed for all routine jobs. Includes: Versamatic unit; standard screwdriver bit; No. 2 Phillips type bit;  $\frac{1}{4}$ " square drive socket adapter and 16 page instruction manual. Fully guaranteed. Wt. 3 lbs. Mfg. List \$14.95.

No. 37B123. Complete Set. **\$11.21**

No. 16B852.  $\frac{1}{2}$ " Geared Key Chuck. **\$7.35**

For use with above. Mfg. List \$9.85. Each



POWER WRENCH



POWER SPEED REDUCER



POWER TAPPER

### SCREWDRIVER ATTACHMENT

Mfg. List \$4.95

**\$3.75**



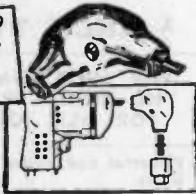
Takes the work out of driving screws. Fits any  $\frac{1}{4}$ " capacity or larger power drill. Pressure on handle of drill controls friction clutch. With standard slotted and Phillips screwdriver bits. Wt. 1 lb.

No. 16A943. Net Each. **\$3.75**

### BABCO RIGHT-ANGLE DRIVE

Mfg. List \$4.49

**\$3.37**



For drilling in confined places, polishing, sanding, etc., with  $\frac{1}{4}$ " electric drill. 2 to 1 reduction gear cuts drill speed in half... by using opposite end of attachment drill speed is doubled. Includes detachable side handle. Wt. 12 oz. List \$4.49.

No. 22B219. Net Each. **\$3.37**

### TURNER LUCKY "7"

#### PROPANE GAS TORCH KIT SAFE TO USE—NO HAZARDOUS LIQUID FUELS!

- Underwriters and ICC approved.
- No pumping, priming or objectionable fumes.

Now at sensational low price a torch kit that has 1001 uses. Ideal for all kinds of soldering where large heating capacity is required such as silver soldering, sweat fittings, and light brazing. Does the work of any liquid torch without the inconvenience. Just open valve and light—no dangerous pumping or priming. Kit includes pencil point burner, heavy duty burner for larger, heavier work and chisel point soldering tip. Tank is standard type with 1" inlet interchangeable with other makes. Shpg. wt. 4 lbs. Mfg. List \$7.77.

No. 32A90. Net Each. **\$5.18**

No. 32A88. Extra tank of gas. Each. **\$1.69**

### NEW TURNER MULTI-TORCH KIT

- Includes everything needed for wide variety of torch jobs.
- Contained in lifetime metal chest.

Has all the features and all the accessories of "Lucky 7" Torch above plus handy spark lighter, double duty flame thrower, and compact tool box type chest for convenient shop storage and easy portability. Flame thrower is ideal for removing old paint, heating asphalt tile, linoleum, etc. Chest size 3" H. x 10 $\frac{3}{4}$ " W. x 6" D. Shpg. wt. 6 $\frac{1}{2}$  lbs. Mfg. List \$9.95.

No. 32A81. Net Each. **\$6.95**

## NEW PEG BOARD KIT

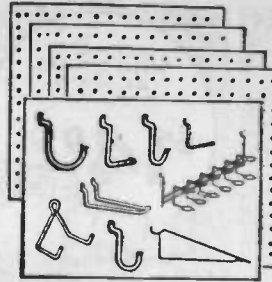
FOR HOME - OFFICE - SHOP

MFG. LIST \$7.98

**\$4.99**

A HANDY PLACE FOR TOOLS—CUTLERY—PLUS HUNDREDS OF OTHER ITEMS

Complete 84 Piece Kit



Most convenient means ever for storing shop tools, household utensils, hardware, garden tools, etc. Provides extra storage space—mounts on wall or door, eliminates cluttered work bench and floors. Assorted hooks and hangers may be positioned on perforated peg boards to accommodate almost any item. Contains: Four 18x24" pegboards  $\frac{1}{8}$ " thick; four 4 oz. jars and holders; heavy metal tool rack; complete assortment of hooks and hangers; screws and spacers for mounting. Shpg. wt. 14 lbs.

No. 36B102. Kit Each. **\$4.99**

## NOW AT NEW LOW PRICE!

### JIG SAW ATTACHMENT

Does work of jig, capping, rip, crosscut, band and hack saws. Fits any  $\frac{1}{4}$ " or  $\frac{3}{8}$ " electric drill. Cuts intricate patterns, circles, etc., in plywood, wall-board, plastics, metals—even lumber up to 2x4's. Simply guide it over the cutting line, sawdust is automatically blown away from the blade.

No. 22A173. Complete with blade. Mfg. List \$8.95. Net Each. **\$6.29**



MFG. LIST \$8.95

**\$6.29**

As above with adjustable circle cutter and rip guide.

No. 22B223. Mfg. list \$9.95. Net Each. **\$7.29**

No. 16B174. Replacement Blades. Pkg. of 6. **\$1.47**

### HACK SAW FOR ANY $\frac{1}{4}$ IN. ELECTRIC DRILL

Mfg. List \$5.50

**\$4.12**



Low priced hack saw attachment that does a whole of a job. Cuts smoothly through wood, metal or plastic, etc. Now with new thrust ball bearings; no exposed moving parts except saw blade. Well constructed with all moving parts of hardened, heat-treated steel. Only 1x1 $\frac{1}{2}$ x4" in size, it fits easily into electric drill kit or tool box. Uses standard hack saw blades. Wt. 11 oz. Mfg. List \$5.50.

No. 16B772. Net Each. **\$4.12**

### HOLE SAW SETS FOR ANY ELECTRIC DRILL

Mfg. List \$7.95

**\$5.88**



14 Blade Set \$11.19

Just the ticket for cutting holes fast and clean in wood, plastics, metals, etc. Set consists of 7 high speed shatterproof saws—1" to 2 $\frac{1}{2}$ " by  $\frac{1}{4}$ "s. Cuts 3 times faster than other hole saws selling for twice as much. Rugged alloy tool head with  $\frac{1}{4}$ " pilot drill for holding blades. Mfg. List \$7.95.

No. 16B878. Per Set. **\$5.88**

14-IN-1 SET. Saw sizes— $\frac{7}{8}$ " to 2 $\frac{1}{2}$ " by  $\frac{1}{8}$ "s. Includes two heads and pilot drills.

No. 22B273. Per Set. **\$11.19**

### VERTICAL STAND CONVERTS ELECTRIC DRILL TO DRILL PRESS AT LOWEST COST YET



MFG. LIST \$13.95

**\$9.97**



### DISC RASP & PAINT REMOVER

**99c** FITS ANY ELECTRIC DRILL

Fast, economical way to accomplish scores of woodworking jobs. Eliminates hours of tiresome hand work. Hardened steel discs complete with arbor attachment. Quality import. No. 11B382. For Rasping and Filing. No. 11B381. For Removing Paint and Sanding. Your Choice. Each. **99c**

# POPULAR ELECTRIC SANDERS

AMAZING QUALITY AT UNHEARD OF PRICE!

COMPARE AT \$23.95 MFG. LIST

**\$11.95**

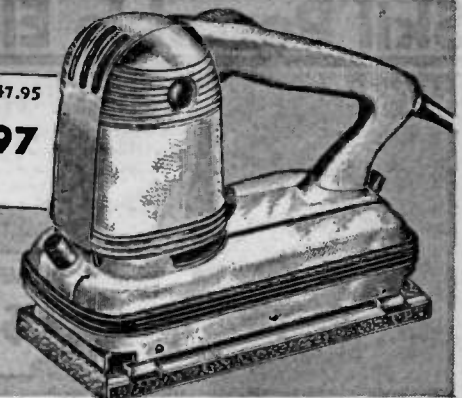
MFG. LIST \$24.95

**\$17.46**

MFG. LIST \$47.95

**\$32.97**

SANDS TO A PIANO FINISH



## SPEEDWAY ORBITAL SANDER

Now a fine quality motor driven sander at a price far below inferior vibrator types. Perfect for home or shop. Sands old finishes from wood or metal, or polishes surfaces to a piano finish. Sanding area 4 1/2 x 5 1/8". Powerful 115 V. AC 3450 RPM motor. Length overall 8". Net wt. 5 lbs. Ruggedly constructed with push-button switch for fast stop-start. Teflon coated thrust washer, and bronze bearing assures long trouble-free operation. Uses either standard sandpaper or wet free abrasive paper cut to size. Equipped with 6 ft. 3 wire cord and adaptor for standard 110 V. outlet. Shpg. wt. 6 lbs.

No. 37A328. Special Each..... **\$11.95**

### USEFUL ACCESSORIES FOR ABOVE

20B25. Lambswool Bonnet. Each..... **85c**  
 11A325. 18 Sheets Asst. Sandpaper. Pkg. **\$1.07**  
 22B221. Contour Plate Assembly with 3/4" neoprene pad for sanding curved surfaces. Each..... **\$1.49**

## BURGESS BELT SANDER

Powerful motor—Sensational low price!

Here it is! A fine belt sander . . . so amazingly low-priced that every home owner, craftsman and hobbyist can now afford to own one of these indispensable tools. It's a rugged, sturdy, man-size sander that handles every sanding job quickly and easily . . . from the roughest work with coarse belts to the finest finish sanding. Sand tables, chairs, desks, cabinets, bookcases, floors, wood-work, doors . . . 10 times faster than hand sanding! Useful for removing paint and varnish, too. Uses fine, medium, or coarse belts, size 2 x 17 3/8". Sturdily built of rugged cast aluminum. Has quiet positive chain drive and self-lubricating bearings. Built-in blower keeps motor cool. 115 volts AC-DC. Coarse and medium belts included. Wt. 9 lbs. No. 37A272.

Net Each..... **\$17.46**

No. 16A447. Coarse Belts. Each..... **29c**  
 No. 16A448. Medium Belts. Each..... **29c**  
 No. 16A449. Fine Belts. Each..... **29c**

## "DUALINE" SANDER

Both orbital and reciprocating motion with one tool!

Powerful electric tool takes the drudgery out of those tedious sanding jobs . . . Permits user to do an exceptional job from start to finish.

Equipped with two instantly interchangeable plates. One provides fast cutting orbital motion; the other a reciprocating (straight line) motion. Produces amazing speed (4500 vibrations per minute under load) to cut sanding time to a minimum.

Powerful 1.75 amp. industrial class motor with highest quality ball bearings throughout; Gilmer timing belt (toothed) drive to assure quiet trouble free operation. Sturdy aluminum die-cast housing. Convenient slide switch; Three conductor power cord with two prong adaptor for 110 volts AC-DC operation. Plate sizes, 3 1/2 x 7". Uses 1/2 sheet of standard 9x11" paper. No. 36A208. Shpg. wt. 8 lbs. Net Each. **\$32.97**

## SENSATIONAL NEW WEN BELT SANDER

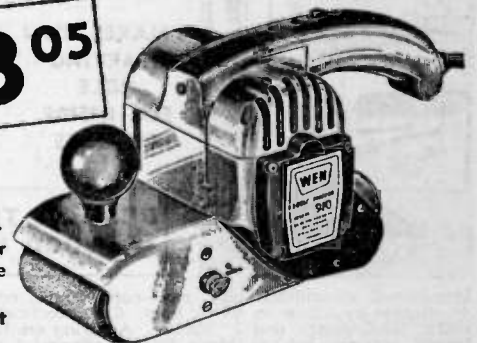
INDUSTRIAL QUALITY FULL 3-INCH BELT SANDER AT A HOME WORKSHOP PRICE!

Never before a professional quality belt sander with so many plus features at this low economy price! Has the extra power and big sanding capacity to handle all sanding jobs. Quickly smooths down the roughest lumber—produces a fine finish in just seconds. Big 3 x 18" sanding belts cover a larger area allowing you to get the job done quicker and easier. Flush body design sands close to edges, eliminates tiresome "touch-up" hand sanding. Powerful cool running motor delivers 850 sanding feet per minute, has precision needle and oversize sleeve bearings, sealed and permanently lubricated. Unique tension device maintains correct belt tension, allows quick belt changing. Ventilation fan keeps work and belt free from dust—speeds up sanding, extends belt life. Completely driven by extra heavy duty gears, permanently lubricated for continuous long life operation. Compact, well balanced die cast aluminum housing with contour grip handle and two position knob. Heavy duty construction throughout—industrially rated. On-off slide switch. Supplied with three sanding belts; coarse, medium and fine. 6 foot 3-wire cord. 115 volts 60 cycle AC. Size 5 3/4" H, 5 1/2" W, 10 1/2" L. Net wt. 7 lbs. Shpg. wt. 8 3/4 lbs. Mfg. list \$44.95. No. 36B282. Wen Model 910.

Net Each..... **\$33.05** 3 Lots, **\$29.97**  
 No. 16A636. Coarse Sanding Belt. Each..... **53c**  
 No. 16A637. Medium Sanding Belt. Each..... **53c**  
 No. 16A638. Fine Sanding Belt. Each..... **53c**

MFG. LIST PRICE \$44.97

**\$33.05**



- Powerful 4 1/4 amp motor.
- Completely gear driven.
- Uses fine, medium or coarse belts to handle any job.
- Maintains proper belt tension and tracking.

## BURGESS INSECT FOGGER

CLEARs OUTDOOR AREAS OF INSECTS FOR HOURS . . . INDOOR AREAS FOR WEEKS!

MFG. LIST \$39.95

**\$29.95**



### POSITIVE INSECT CONTROL FOR

- FARM BUILDINGS • YARDS
- MOTELS • PATIOS
- DRIVE-INS • PICNICS
- GARDENS • COOKOUTS

Just pull the trigger and approved oil-base insecticides are instantly vaporized into a thick insect killing fog—spreads through the air and rolls over the ground killing flies, mosquitoes, flying and crawling insects. Harmless to humans and pets, treated areas can be occupied immediately. Thermostatically controlled heating chamber produces a smooth even flow of fog. 24 oz. container holds enough insecticide to cover approximately 200' x 200' area. Plugs Into 110-115 V. 50-60 cycle AC 2 or 3 wire socket. Size 10" high, 13" long. Shpg. wt. 6 lbs. No. 37B348. Model F-900. Each. **\$29.95**

## BURGESS ELECTRIC PAINT SPRAYERS

ECONOMY MODEL VS-855

MFG. LIST \$12.95  
**\$9.49**

GENUINE SAPPHIRE NOZZLE



NEW TRIPLE NOZZLE TURRET MODEL VS-850

PROVIDES THE RIGHT NOZZLE FOR EVERY JOB

MFG. LIST \$19.98  
**\$14.97**

SPRAYS: • Paint • Varnish • Garden Sprays • Mothproofers • Etc.



ECONOMY MODEL VS855. Completely self-contained . . . requires no extras. Just plug-in, pull trigger, and spray. It's easy . . . it's fast. Sprays paint, varnish, enamel, shellac, lacquer, moth-proofers, garden sprays, insecticides. Weighs less than 3 lbs. Safe . . . operating mechanism sealed in shock-proof head. Easy to clean. Foolproof, clogproof, trouble free. Adjusting knob for light or heavy spray. Graduated 24-oz. container. Stainless steel piston, corrosion proof cylinder . . . will not rust or foul. Trigger on-off switch.

Convenient hanging hook. Fully guaranteed. 115 V. 60 cy. AC. Shpg. wt. 3 1/2 lbs. No. 37A353. Net Each. **\$9.49** 6 Lots, **\$8.63** Each.

MODEL VS-850. Now, spray like a pro . . . simple as dialing a phone. Unique rotating turret enables you to select the correct nozzle for every spraying need. 3 nozzles—each has genuine sapphire orifice, color coded for instant identification. Gold nozzle produces fan-shaped spray for painting large, flat surfaces; silver nozzle gives round spray for general painting; green nozzle produces a fog-like spray for garden sprays, mothproofers, etc. Completely self-contained—no extras to buy, simply plug-in, pull trigger and spray. Foolproof, clogproof, trouble free. Graduated 24 oz. container. Convenient hanging hook. Trigger on-off switch. Operating mechanism sealed in shock-proof head. Adjusting knob for light or heavy spray. 115 V. 60 cy. Shpg. wt. 3 1/2 lbs. No. 36B185. Model VS850. Each. **\$14.97**



# Skil Portable Electric Tools

## SKIL HEAVY-DUTY 6 1/2 -INCH SAW

MODEL 552



MFG. LIST \$69.95

**\$52.23**

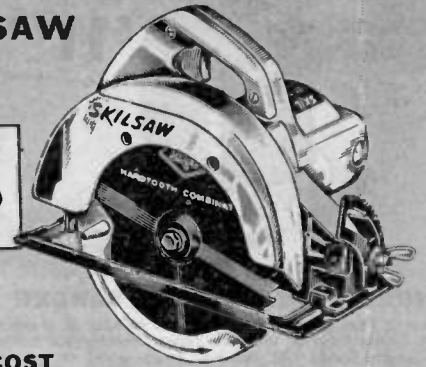
**EXTRA POWER  
FOR CONTINUOUS  
HEAVY DUTY USE**

Powerful, rugged, fully dependable . . . incorporates the most desired features for providing America's top buy in a 6 1/2" portable electric saw. Heavy-duty 5800 RPM high speed universal motor rated at 10 amps, statically and dynamically balanced—vibration free under heaviest loads. Variable-torque clutch protects against motor burn-out, excessive wear to gears and bearings. Precision helical gears transmit full motor power to blade. All ball bearings for greater efficiency, longest trouble-free service. Bevel cuts 2" dressed lumber at 45°. Fully adjustable 0° to 45°. Vertical cuts 1/8" to 2 3/8" depth. Simple, accurate depth and angle adjustments. Automatic telescoping guard and safety retractor handle. Momentary trigger switch. Three wire cord with grounding connector. 115 volts AC-DC. Overall length 10 1/4". Net wt. 11 3/4 lbs., shpg. wt. 15 lbs.

36B225. Mfg. List \$69.95. Net Each **\$52.23**  
No. 16C730. Replacement Blade. 6 1/2" Comb. Net Each **\$2.07**

## SKIL ECONOMY 7 1/4 -INCH SAW

MODEL 537



MFG. LIST \$59.95

**\$44.76**

**BIG CUTTING  
CAPACITY AT  
AMAZING LOW COST**

The perfect choice for craftsman or professional builder desiring the finest all-purpose electric saw. Handles framing and rafter cuts—races through 2x4's even at 45° bevel. Ball and anti-friction bearing construction provides smooth superior performance with long lasting trouble-free service. Makes the toughest jobs easy. Heavy duty 10 amp universal motor develops 5150 RPM no load speed, provides full power to blade through precision helical gears. Built-in safety clutch gives extra safety—protects against motor burn-out. Fully adjustable for accurate bevel cuts 0° to 45°, vertical cuts of 1/8" to 2 3/8". Safety features include: automatic telescoping blade guard with retracting handle. Has single pole momentary contact trigger switch.

Three wire cord with grounding connector for 115 volts AC-DC operation. Overall length 12". Net wt. 13 1/2 lbs., shpg. wt. 17 1/2 lbs. Mfg. list \$59.95. No. 37A344. **\$44.76**

Net Each **\$44.76**  
No. 16C741. Replacement Blade. 7 1/4" Comb. Net Each **\$2.07**

## NEW SKIL 524 JIG SAW

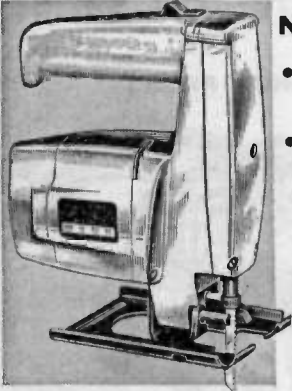
• ORBITAL BLADE ACTION  
FOR FASTEST CUTTING

• MAKES OWN  
STARTING  
HOLE  
FOR INSIDE  
CUTOUTS

MFG. LIST \$32.95

**\$22.97**

**BREEZES THROUGH 2 IN.  
WOOD WITH EASE**



Unmatched versatility! Rips, cross-cuts, scrolls, notches, and bevels up to 45 degrees by adjusting tilting base. Cuts practically any material including metal, steel, plastic and 2" lumber. Amazing orbital cutting action provides fastest cutting—reduces blade "drag". Powerful motor and precision cut helical gears deliver tremendous power to blade. Automatic blower keeps sawdust away from line of cut. Has self-lubricating, anti-friction bearings for trouble-free operation. No load speed 3700 strokes per minute. Overall length 7 1/2", net wt. 4 lbs. Complete with 3 wood cutting blades, 3 wire card and 2-prong adaptor. 115 V. AC. Shpg. wt. 5 1/2 lbs.

36C222. Metal Cutting Blade (32 Teeth Per Inch). Each **83c**  
No. 16C723. Wood Cutting Blade (10 Teeth Per Inch). Each **72c**

## SKIL MODEL 503 1/4" ELECTRIC DRILL

**\$13.27**

MFG.  
LIST  
\$18.95

**DELIVERS UP TO 35% MORE  
POWER . . . KEEPS DRILLING  
WHERE OTHER DRILLS STOP**

A fabulous buy . . . more power, greater drilling torque, yet amazingly low-priced. No wonder this is one of the fastest selling drills on the market today.

Big full 2.5 amp motor with precision cut helical gears delivers tremendous power. Drills through the toughest materials with amazing ease. Lightweight aluminum housing, balanced for easy handling. Trigger switch with lock-button for sustained drilling. Sturdy geared key chuck. No load speed: 2500 RPM. Length overall 9". Heavy duty 3 wire cord and connector for 115 V. AC. Shpg. wt. 4 lbs.

No. 37A425. Special Each **\$13.27**

## NEW SKIL ORBITAL SANDER

MFG. LIST \$32.95

**\$22.97**

**POSITIVE ORBITAL AC-  
TION SANDS TO SMOOTH  
FINISH WITH JUST A  
FEW "PASSES"  
OVER WORK**



MODEL 592

Absolutely the finest quality sander available at this low price! Positive orbital action quickly sands to smooth finish—allows sanding with or across the grain. Restores finish on old or marred wood with just a few "passes". Perfect for sanding wallboard and plaster, removing old paint or varnish, finishing of composition, plastics, etc. Powerful 2.5 amp motor delivers 5000 O.P.M. with 3/8" orbital stroke. Has over 25 square inches of sanding surface. Equipped with 3-wire cord with connector and 2-prong adaptor for 115 V. AC. Net wt. 4 1/2 lbs. Shpg. wt. 6 lbs. Mfg. list \$32.95. **\$22.97**

No. 36A182. Each **\$22.97**  
No. 36A183. 10 Sheets Assorted Sandpaper, 3 5/8"x9" **84c**

## FITTED METAL CARRYING CASES

No. 36B187. For Models 536 and 552. Mfg. List \$14.95.

Net Each **\$11.16**

No. 36B186. For Model 537. Mfg. List \$18.00.

Net Each **\$13.44**



## SKIL MODEL 576 SAW TABLE

CONVERTS MODEL 552  
FOR TABLE SAW USE

Full 21 x 16" top, ample size for handling rip, cut-off and miter cuts. Also fine for grooving, notching and dadoing by adjusting blade height. Mounts on workbench or table top. Easy to move from job to job. Equipped with adjustable miter and rip guides. Convenient switch on side for "on-off" control of saw. Max. depth of cut 3/8" less than saw capacity. Bench height 10". Shpg. wt. 16 lbs. Mfg. list \$19.95.

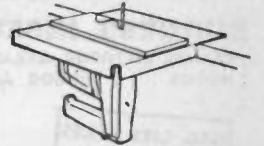
No. 36B224. Net Each **\$14.89**



## SKIL MODEL 25524 SAW TABLE CONVERTS MODEL 524 FOR TABLE SAW USE

Holds saw firmly in place for fast, accurate cutting of bevels and all intricate patterns. Hundreds of uses in the home workshop—perfect for the hobbyist. Table top size 10 1/2 x 11 1/4". Readily mounts to workbench or table top. Shpg. wt. 5 lbs. Mfg. list \$4.95.

No. 36C163. **\$3.69**  
Net Each **\$3.69**

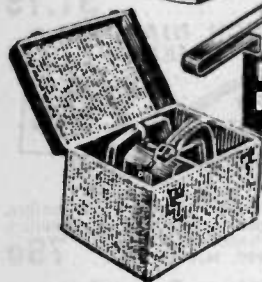
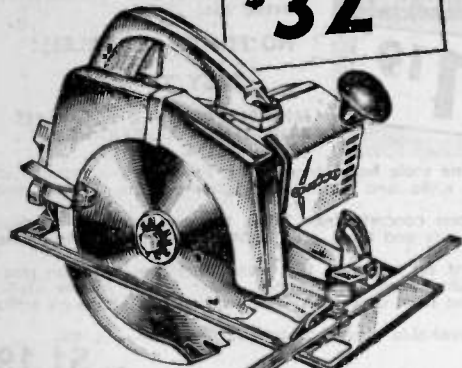


# Portable Power Saws

## THOR-SPEEDWAY 1 1/2 H.P. 7-INCH SAW

MFG. LIST  
PRICE \$54.95

**\$32<sup>95</sup>**



**REALLY BIG  
PACKAGE AT  
A GIANT  
SAVING**

**COMPLETE WITH  
\$8.95 STEEL  
CARRYING CASE**

A powerful 10 ampere 1.5 H.P. motor gives the big 7" professional saw reserve power to speed through straight or angle cuts in all kinds of materials—rips through 2x4's at 45°. All the features of saws costing much more including positive locking levers for angle and depth adjustments, safety slip clutch (externally adjustable) to prevent "kickback", oversize safety switch, adjustable sighting guide and retracting blade guard. Bearings are self-lubricating. Motor is universal series wound AC-DC 25-60 cycle, 115 volt, 6 ft. 3 cond. cord and adaptor for 2 prong outlet. Complete saw, steel carrying case, rip guide, combination blade. Shpg wt. 29 lbs.

No. 37A65

**\$32.95**

Net

No. 16A705. 7" Combination Blade. Each. \$2.29

## THOR-SPEEDWAY JIG SAW

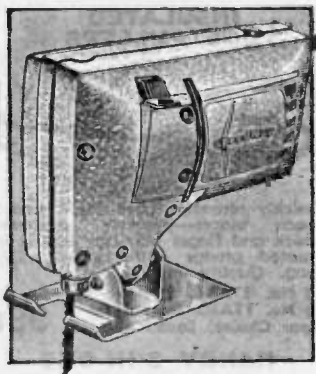
**CUTS 2-IN. WOOD,  
1/8-IN. STEEL**

COMPARE AT \$29.95  
MFG. LIST

**\$13<sup>95</sup>**

**AMAZING LOW PRICE**

- Has powerful 3 amp motor.
- Base tilts to 45 degrees.



Now a professional quality jig saw at a fantastic low price! Breezes through wood up to 2" thick, accurately cuts curved or straight lines in plywood, plastic, metal, fibre board, etc. Base tilts to 45° on either side. Powerful universal series wound 3 amp 115 V. AC-DC motor produces 3000 cutting strokes per minute. Positive on-off push through slide switch for handy operation. Finest oilite bearings assures long life. Overall length 6 3/4", overall height 5". Weighs only 4 lbs. Equipped with 6 ft. 3-wire cord and adaptor for standard 2 prong outlet. Complete with one wood cutting jig saw blade and wrench. Shpg. wt. 5 lbs.

No. 37A340. Special Net.

**\$13.95**

16B103. Wood cutting blade. .39c 16B104. Metal cutting blade. .51c

## EXCEPTIONAL VALUE POWER SAWS



**\$19<sup>95</sup>**

COMPARE  
AT  
\$29.95

**NATIONALLY  
FAMOUS  
MANUFACTURER**



**\$24<sup>95</sup>**

**CUTS 2x4  
AT 45°  
ANGLE**

MFG.  
LIST  
\$39.95

### FEATURES FOUND ONLY IN THE MORE EXPENSIVE SAWS

- Adjustable safety clutch.
- Retractable blade guard.
- Tailor fit handle.
- 5000 RPM.
- Precision built and balanced universal motor.
- Die-cast aluminum housing.
- Calibrated Rip Guide
- Combination Blade Included

## FULL 1 H.P. 6 1/4 INCH POWER SAW

A power packed 1 H.P. 6 1/4" saw that zips through 2x4's easier and faster... even at a 45° angle. Rips, crosscuts, grooves, bevels, mitres, rabbets and dados. The ideal all-purpose saw for the home or workshop. Tailor fit handle and perfect balance make it easy to use hour after hour.

Built-in externally adjustable slip clutch as normally found only in the most expensive saws ends common cause of motor burn out and blade kick back. Simple positive finger tip adjustment for depth of cut and bevels 0° to 45°. Heavy duty sole plate adds ruggedness and insures accuracy of cut. Has a full 6 ampere rating. Equipped with calibrated rip guide. 3-wire cord with adaptor for standard 2 prong outlet. For 115 V. 50-60 cycle AC-DC. Shpg. wt. 10 lbs. Saw in metallic blue finish.

No. 37A24. Each

**\$19.95**

No. 16A709. 6 1/4" Combination Blade. Ea. \$1.88

## HEAVY-DUTY 1 1/4 H.P. 7-INCH POWER SAW

Rugged, dependable 7" saw with powerful 1 1/4 H.P. motor glides through any material from wall-board to rough 2" lumber with blade to spare. Races through 2x4's even at 45° angle. Tailor fit handle and perfect balance combine to provide easiest handling. Built-in externally adjustable safety clutch ends common cause of motor burnout and blade kick back. Precision built 8 amp motor delivers 5000 RPM through helical drive gears. Heavy duty sole plate insures accurate cuts. Simple, positive fingertip adjustments for depth of cut and bevels 0° to 45°. Maximum depth of cut 2 3/4", maximum cut at 45°, 2 1/4".

Equipped with calibrated rip guide and 3-wire cord with adaptor for standard 2 prong outlets. Bright finish die cast aluminum housing. 115 V. 50-60 cycle AC-DC. Shpg. wt. 13 lbs. Mfg. list \$39.95.

No. 37B270. Each

**\$24.95**

No. 16A581. 7" Combination Blade. Each. \$2.29

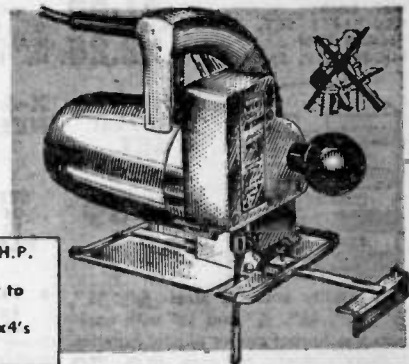
## POPULAR WEN "ALL-SAW"

**HERE IS A SAFE AND  
VERSATILE, HEAVY  
DUTY, FAST CUTTING  
POWER SAW FOR  
EVERY KIND OF  
SAWING!**

MFG.  
LIST  
PRICE  
\$44.95

**\$33<sup>05</sup>**

- Features powerful 6 Amp-1/2 H.P. Motor.
- Cuts all metals, from thinnest to 1/2-inch thick.
- Cuts up to 6x6's, with up to 4x4's of 45° angle.



One saw performs the cutting jobs of many. Seven different blades furnished for cutting tile, bakelite, rubber, cardboard, wood and metal from thin to 1/2" thick. Conventional saw grip with finger control trigger switch makes for safe and fast operation. Cutting blade always remains in line of sight with air stream clearing dust from the line of cut. Beautifully balanced and light weight for hours of fatigue-free operation. All gears are heavy duty and hardened. Powerful 1/2 H.P. motor has heavy duty roller oilite bearing for long life. Saw operates at 3400 strokes per minute, length of stroke 1". Comes complete with seven blades, rip guide, circle cutter and 45° tilting base plate. UL approved. Size 7 1/2 x 7 x 8". For 110-120 V. AC or DC.

Wt. 8 1/4 lbs.

No. 36B220. Net Each

**\$33.05**

3 Lots,  
Each

**\$29.97**

Model 900. Set of 7 replacement blades for above saw. Wt. 1/2 lb.

No. 16A530. Mfg. List \$3.40. Net

**\$2.50**

**SAW TABLE FOR ABOVE.** Converts in seconds for table saw use. Complete with rip fence and protractor. Sturdy steel construction, 18" W x 18" L x 8 1/2" H. Shpg. wt. 14 lbs.

No. 36A149. Net Each

**\$11.22**

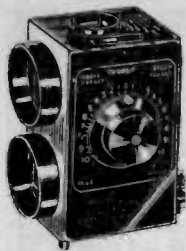


## NOW BUY TOOLS ON EASY PAYMENTS!

Enjoy the convenience of fine quality power tools with no money down and up to 24 months to pay. See Order Blank for B-A's Easy Pay Plan.



# Unusual Tool Values!



## NEW DELUXE MODEL PRECISION SPLIT IMAGE TRANSIT

MFG. LIST \$8.95

**\$6.95**

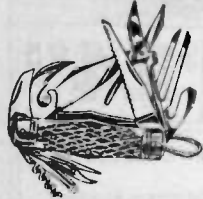
- New external sights for faster, more accurate operation.
- New prism-like optical system.
- Simplified calibration system.

**ACCURATE FOR LEVELING AND INCLINE MEASUREMENT**

Easy as a camera to operate! One man alone can do leveling and incline measuring accurate to a fraction of an inch. Ideal for on the job and around the house; for carpentry leveling, patio and terracing, duct installation, foundation work, contour plowing, brick laying, yard grading, irrigation, guttering, drainage, masonry, TV and Ham tower and antenna installations, etc. Shpg. wt 2 lbs.

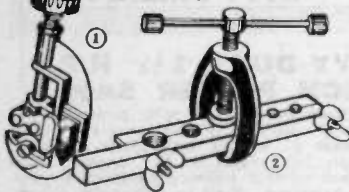
No. 29B24. **\$6.95**  
 Beautiful Simulated Leather Carrying Case. For transit above.  
 No. 29B25. Mfg. list \$3.95. Net Each. **\$3.29**

## HANDYMAN'S MULTI-PURPOSE POCKET KNIFE



Has 11 blades to accomplish a multitude of indoor and outdoor functions. Consists of: large size knife blade, corkscrew, bottle opener and screwdriver blade, file and trimming blade, leather punch, pruning blade, can opener, saw blade, scissors, fish-hook remover, and awl. Highly polished alloy steel with knurled bone handle and shackle ring. Only 3 1/2" long x 1 1/4" wide x 7/8" deep. Shpg. wt. 1/2 lb.  
 No. 60A159. Net Each. **\$2.79**

## TUBING CUTTER & FLARING TOOL



① Tubing Cutter  
 Always needed tool for cutting copper, brass, aluminum and other rigid tubing up to 1" dia. Ideal for refrigeration work, light plumbing, heating, etc. Equipped with hardened steel rollers and handy slide-lock reamer. Quality import. Shpg. wt. 1 lb.  
 No. 11A287. Net Each **99c**

② Flaring Tool  
 Quickly and easily flares copper, brass, and aluminum tubing for attaching fittings. Has six flaring discs from 3/8" to 5/8". Yoke has swivel cone and slide bar handle. Quality import. Shpg. wt. 1 1/2 lbs.  
 No. 11A288. **\$1.89**  
**COMPLETE SET, Tubing Cutter and Flaring Tool**  
 No. 11A289. Special, Set. **\$2.25**

## 5.0 POWER EYE LOUPES

JEWELERS TYPE  
 WONDERFUL FOR  
 ANY MINIATURE  
 WORK



Provides necessary magnification to aid in inspecting and repairing miniature parts and equipment. Carefully ground and polished optical glass lens of fine quality.  
 No. 16B242. Net Each. **75c**

## 10 PIECE REVERSIBLE RATCHET SOCKET WRENCH SET

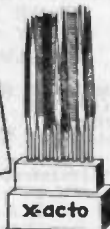
ONLY  
**\$1.59**



4" ratchet with 1/4" square drive is instantly reversible by handy thumb lever. 3" extension bar included for work in usually inaccessible places. 8 sockets, sizes 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1 1/8", and 1 1/4". All in handy pocket-size container.  
 No. 16B588. Per Set. **\$1.59**

## X-ACTO SWISS NEEDLE FILES

SET OF  
 12 FILES  
**\$3.95**



• Extremely handy for hobby and shop work.  
 Same as used by jewelers, watchmakers, 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. 16C187. Type 60S-ST  
 Each **\$3.95**

## HANDY POCKET ADJUSTABLE WIRE STRIPPER



THREE-TOOLS-IN-ONE  
 Handiest little wire stripper we've seen. Small enough to fit in the shirt pocket, yet will accomplish these usually nasty wire stripping and cutting jobs with shearing ease.  
 Fully adjustable for stripping solid or stranded wire from No. 6 to smallest. Calibration on handle assures proper adjustment. Hardened and ground steel blades.  
 No. 16B526. Net Each. **88c**

## AMAZING NEW CALMAL SUPER CLEANER OF A THOUSAND USES



HAS THE POWER OF ACID YET IS COMPLETELY SAFE TO USE!

**\$1.19**

- Removes rust and lime deposits from metal, porcelain, plastic.
- Removes grease and rust stains from concrete.
- Use as an etchant for masonry, metal, tile.

**NO FUMES! ODORLESS!**

**EASY TO USE!**

**MIRACLE CLEANER... GIVES BRIGHT NEW APPEARANCE... LIKE MAGIC!**

Use Calmal to remove lime scale from steam irons, vaporizers—removes rust and lime deposits from sinks and bathtubs, brightens brass, bronze, and copper.

Use Calmal to clean excess concrete from brick, tile and masonry. removes rust and oxidation from cars and tools, pre-conditions concrete floors before painting, declogs drains.

Use Calmal as an etchant for masonry, tile, metal surfaces—to clean plastic, marble, porcelain tubs, washing machines, toilet bowls, shower stalls, vinyl, etc. Removes grease from concrete driveways, and rust stains on walks and walls.

Full quart in strong unbreakable plastic container. Shpg. wt. 2 1/2 lbs.  
 No. 11A596. **\$1.19**

## 6 1/2 INCH LONG NOSE PLIERS



**99c**

With side cutters. Quality, German Craftsman made. Polished head, milled jaws. Fully guaranteed.  
 No. 16A994. Net Each **99c**

## 5-INCH DIAGONAL PLIERS



**79c**

Quality German made side-cutters. Drop forged, tempered and hardened. Polished heads.  
 No. 16A995. Net Each **79c**

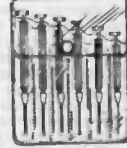
## MARKING KIT



**79c**  
 SET OF 3 COLORS  
 IMPORT SPECIAL

Writes on any surface. Permanently marks on metal, glass, paper, plastic, etc. Felt tip provides smooth, even flow on any surface. Dries instantly, guaranteed waterproof. 3 colors—blue, red and black.  
 No. 11A347. Per Set. **79c**

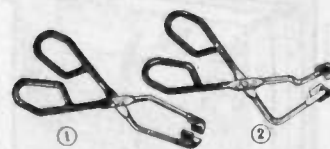
## Miniature Screwdriver Kit



LOWEST PRICE EVER  
**\$1.29**

6 most needed sizes from 1/16" blade to 3/16". Finest import quality, all solid brass chrome plated handles, swivel tops. Plastic separator type case. Shpg. wt. 8 ozs.  
 No. 17A430. Each. **\$1.29**

## INSULATED TUBE PULLERS



Quickly removes tubes from hard to reach places—prevents accidental shock and finger burning. Plastic insulated prongs and handles. 7 1/2" long. Quality import.

① No. 17A31. Straight Type  
 ② No. 17A30. Bent Type  
 Your Choice, Each **99c**

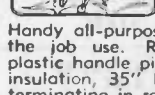
## HANDY 3-IN-ONE TOOL HOLDERS



10 FOR **98c**

Nickel plated spring steel holder holds as many as 3 tools. Handy for pliers, hammers, wrenches, garden tools, etc. Mounts on wall or bench. Has self tapping gimlet screw.  
 No. 11B101. 10 For. **98c**

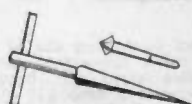
## TEST LEAD KIT



**\$1.19**

Handy all-purpose kit for shop or on the job use. Red and black 4 1/2" plastic handle pin prods with 5000 V insulation, 35" kinkless rubber leads terminating in red and black 2" plastic grip banana plugs. Includes interchangeable alligator clips, spare lug terminals and phone tips. Supplied in compartmented plastic case. Quality import.

No. 17A691. Special Each **\$1.19**  
**T-HANDLE REAMER & COUNTERSINK SET**



**99c**

Tapered reamer 1/8" to 1/2" for enlarging holes in chassis, racks and sheet metal. Countersink fits all electric drills—countersinks in wood, plastic, metal, etc. Both of finest nickel plated carbon steel. Quality import.  
 No. 11B404.  
 Special Per Set. **99c**



4 TOOLS IN ONE

**XCELITE 4-WAY TOOL**  
 Provides the proper tool for scores of jobs in the home and shop. Includes: 1/4" and 3/8" nut drivers, No. 1 Phillips screwdriver, 3/8" slotted screwdriver. Type 600  
 No. 11A157. **\$1.35**



# SAVE EXTRA \$\$\$ BY THE FISTFULL WITH THESE... BARGAINS THAT YOU'LL FIND ONLY AT B-A!

Every item on the following pages is an unmatched \$\$\$ Saving Buy—all are Top Quality, Brand New, Fully Guaranteed! The over-35-year B-A reputation for value, for honest, dependable and friendly dealings protects your every purchase.

**DON'T WAIT! CHECK EVERY ITEM! ORDER TODAY!**

## RECORDING TAPE FULLY GUARANTEED



\$2.84  
REG. NET VALUE  
**\$1.39**  
1200 FT.  
7" REEL  
1 1/2 MIL ACETATE BASE

**OVER 50% SAVINGS FROM REGULAR WHOLESALE**

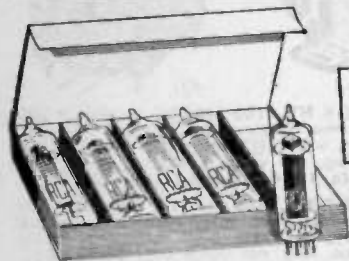
PRODUCT OF LEADING MANUFACTURER  
STOCK UP NOW WHILE LIMITED QUANTITY LASTS

B-A Buyers discovered a leading recording Tape Manufacturer (we can't mention the name) with an excess inventory of first quality acetate and mylar base recording tape that could be "bought right" and passed along to lucky B-A customers at the lowest price ever! So here it is! Your choice of standard play 1 1/2 mil or the 50% longer play 1 mil, both acetate and tough mylar base in continuous lengths (having 1 or 2 factory bonds per reel) All top quality guaranteed to please you, or your money back.

- 1 1/2 MIL ACETATE BASE, 1200 Ft. on 7-Inch Reel. **\$1.39** 10 @ **\$132**
- No. 11A458. Regular Net Value \$2.84. Each. **69c** Each
- 1 1/2 MIL ACETATE BASE, 600 Ft. on 5-Inch Reel. **69c** 10 @ **65c**
- No. 11A455. Regular Net Value \$1.50. Each. **69c** Each
- 1 MIL ACETATE BASE, Long-Play, 1800' on 7" Reel. **\$1.99** 10 @ **\$1.89**
- No. 11A460. Regular Net Value \$3.67. Each. **\$1.99** Each
- 1 MIL ACETATE BASE, Long Play, 900 Ft. on 5" Reel. **99c** 10 @ **90c**
- No. 11A456. Regular Net Value \$2.34. Each. **99c** Each
- 1 MIL MYLAR BASE, 900 Ft. on 5-Inch Reel. **\$1.19** 10 @ **\$1.12**
- No. 11A457. Regular Net Value \$2.40. Each. **\$1.19** Each
- 1 1/2 MIL MYLAR BASE, 1200 Ft. on 7-Inch Reel. **\$1.99** 10 @ **\$1.89**
- No. 11A459. Regular Net Value \$4.13. Each. **\$1.99** Each

**SUPER SPECIAL!** 1200 Ft. on 5" Reel, extra long-play 1/2 MIL Mylar Base Tape. Provides twice the normal recording time (two full hours at 3 3/4 ips, one hour at 7 1/2 ips dual track). **\$1.39** 10 @ **\$1.25**  
No. 11A469, Reg. net value \$3.63. Each. **\$1.39** Each

## PACK-OF-FIVE RCA MINIATURE TUBES



MFG. LIST \$9.35  
**\$2.88**

**OVER 70% DISCOUNT**



**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 little more than the retail price of one. Stock up now—buy several packs while they last. Quantities limited. No. 70A38. **\$2.88** 4 Packs **\$11.00**  
Pack of Five Tubes. **\$2.88** For. **\$11.00**

## VELVET-SMOOTH VOLUME CONTROLS



**39c**

Smoothest action volume controls we have seen. Highest quality import made. Popular compact size only 1 1/2" dia. Universal flatted 3" shaft, easily cut to desired length. Fine for replacement or construction. Linear taper. Switch rating 3 amp @ 125 V.

Ohms Resistance	Stk. No.	Less Switch		With SPST Switch	
		Each	10 Lots Ea.	Stk. No.	Each 10 Lots Ea.
50,000	18C432	.44	.39		
100,000	18C433	.44	.39		
1/2 Meg	18C434	.44	.39	18C442	\$.59 \$.52
1 Meg	18C435	.44	.39	18C443	.59 .52

## QUICK-FIND INDEX TO \$\$\$ SAVING B-A BARGAINS

Amateur Gear	172	Lamps, Panel	166
Amplifiers, Phono	175	Meters, Panel	174
Antenna Accessories	166	Microphones	173
Assortments	164, 178, 179	Motors	170
Battery, Storage	163	Phono Components	175, 176
Binding Posts	173	Pilot Lite Assemblies	166
Blowers	170	Plugs	173
Cable & Wire	172, 174, 177	Power Supplies	162, 163
Cartridges, Phono	175	Relays	171
Chokes	162, 166	Resistor Kits	178
Code Practice Sets	172	Sockets, Tube	166, 172, 179
Condensers	164, 165, 178, 179	Solenoids	171
Coil Form	167	Speakers	175, 176
Connectors	166, 172, 173, 177	Switches	168, 169, 177, 178
Cords, AC	174	Terminal Strips	173, 179
Crystals	172	Timers	169, 171
Dynamotors	172	Transformers	162, 163, 172
Earphones	172, 173	Tubes	161, 165, 172
Hardware, Assortments	178, 179	Turntables	175
Hi Fi Components	174, 175, 176	Variable Condensers	167
Jacks	173, 174, 177	Volume Controls	178
Keys, Code	172	Wire	174, 177, 178, 179

## TOP QUALITY RADIO AND TV RECEIVING TUBES

**AT GIVEAWAY PRICES WHILE LIMITED QUANTITIES LAST!**

ALL NEW! GUARANTEED! PERFECT!



Fabulous \$\$\$ savings on first quality tubes by top American (RCA, Sylvania, Raytheon, etc.) and Japanese (Hitachi, etc.) manufacturers. Everyone guaranteed perfect by B-A, or return for your money back. Imported types (marked with\*) are exact duplicates of their American counterparts, each of finest quality for dependable long life service. All tubes are individually boxed.

Please Specify Stock No. 72A1 and Tube Types

Tube Type	Suggested List	Each	10 Asst.	25 Asst.	Tube Type	Suggested List	Each	10 Asst.	25 Asst.
1K3	\$2.90	\$1.08	\$0.99	\$0.90	6SJ7GT*	\$3.75	\$0.80	\$0.72	\$0.65
1U4	2.50	.39	.35	.29	6SL7GT	3.50	1.08	.99	.90
1X2B*	3.05	.87	.79	.71	6U8*	3.30	.96	.86	.77
3AL5	1.85	.49	.44	.39	6V6GT	2.15	.82	.75	.69
354	2.65	.79	.71	.66	6W4*	2.40	.70	.63	.57
5Y3GT*	1.75	.59	.55	.49	6X4*	1.65	.44	.40	.36
6AG5	2.75	.69	.63	.57	12A77	3.05	1.08	.99	.90
6AK5	4.20	1.10	.99	.90	12AU7*	2.45	.76	.69	.62
6AL5*	1.85	.59	.55	.49	12AV6*	1.65	.50	.45	.41
6AT6*	1.90	.52	.47	.42	12AX7	2.55	1.17	1.05	.99
6AU6*	2.10	.60	.54	.49	12BA6*	2.00	.54	.50	.45
6AV6*	1.65	.57	.52	.47	12BE6*	2.15	.60	.54	.49
6AX4GT*	2.65	.76	.69	.62	12BH7A*	3.05	.96	.88	.79
6BA6	2.00	.76	.69	.62	12KX4	3.55	.98	.88	.79
6B86	2.60	.76	.69	.62	12SQ7GT*	3.30	.68	.61	.56
6BQ6GTB*	4.35	1.21	1.09	.98	12X4	1.95	.49	.44	.39
6BQ7A	3.95	1.52	1.39	1.33	35C5*	2.15	.74	.67	.60
6CB6*	2.25	.66	.60	.54	35Z5GT*	1.85	.54	.49	.44
6SG7GT	4.25	.99	.90	.81	50C5*	2.15	.74	.67	.60
6SH7	4.05	.59	.55	.49	80*	2.90	.56	.51	.46

## THESE PREMIUM TUBES PROVIDE SUPERIOR PERFORMANCE

High reliability ruggedized types that outperform, outlast their regular counterparts. Terrific values at B-A's big \$\$\$ savings.

<b>REPLACES 12AU7</b> Type 6211, Reg. net \$2.35. No. 70A116. <b>55c</b> 10 @ <b>49c</b> Special Ea. <b>55c</b> Each. <b>49c</b>	<b>REPLACES 6SN7GT</b> Westinghouse 6SN7W, Reg. net \$2.34. No. 70A33. <b>99c</b> 10 @ <b>90c</b> Special Ea. <b>99c</b> Each. <b>90c</b>
<b>REPLACES 183GT</b> Sylvania 1K3, Reg. net \$1.62. No. 70A39. <b>\$1.08</b> 10 @ <b>99c</b> Special Ea. <b>\$1.08</b> Each. <b>99c</b>	<b>REPLACES 6J6</b> Type 6J6W, Reg. net over \$4.00. No. 70A91. <b>99c</b> 10 @ <b>90c</b> Special Ea. <b>99c</b> Each. <b>90c</b>



# YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

## TRANSFORMERS AND CHOKES



ALL ARE BRAND NEW! FULLY GUARANTEED!

### WHOPPING VALUES ON POWER TRANSFORMERS



AS LOW AS \$4.29

POPULAR UPRIGHT MOUNTING

600 V. CT @ 90 MA. 6.3 V. @ 3 A, 5 V. @ 2 A. Size 2 7/8 x 3 1/4 x 3 1/2" H. Wt. 3 3/4 lbs. Reg. net at least \$7.00. No. 13A416. Special Each... **\$4.29**

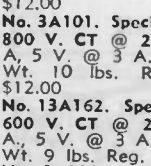
670 V. CT @ 120 MA. 6.3 V. @ 3 A, 6.3 V. @ 3 A, 5 V. @ 3 A. Size 2 7/8 x 3 3/8 x 3 1/2" H. Wt. 5 lbs. Reg. net value at least \$9.00. No. 3A160. Special Each... **\$5.97**

790 V. CT @ 150 MA. 6.3 V. @ 5 A, 5 V. @ 3 A. Size 3 7/8 x 4 x 4 1/2" H. Wt. 8 lbs. Reg. net value at least \$12.00. No. 3A101. Special Each... **\$6.88**

800 V. CT @ 200 MA. 6.3 V. @ 5 A, 5 V. @ 3 A. Size 3 7/8 x 4 x 4 3/8" H. Wt. 10 lbs. Reg. net value over \$12.00. No. 13A162. Spec. Each... **\$7.99**

600 V. CT @ 225 MA. 6.3 V. @ 9 A, 5 V. @ 3 A. Size 3 3/4 x 4 x 4 3/8" H. Wt. 9 lbs. Reg. net at least \$11.00. No. 3A118. Special Each... **\$7.99**

**BIG SAVINGS! MIDGET POWER TRANSFORMERS**



AS LOW AS \$1.45

125 V. @ 25 MA Sec. Tapped for filament 6.3 V. @ .3 amp. Size only 1 1/2" x 1 1/2" x 1 3/8" H. Mtg. ctrs. 2". Shpg. wt. 1/2 lb. 18A141. 10 Lots, **\$1.45** Each... **\$1.29**

250 V. @ 25 MA Sec. Tapped for filament 6.3 V. @ .25 amp. Size 1 1/2 x 1 1/2 x 1 3/8" H. Mtg. ctrs. 2 3/8". Shpg. wt. 1/2 lb. No. 18C221. 10 Lots, **\$1.49** Each... **\$1.35**

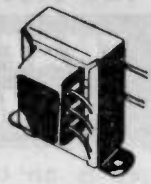
130 V. @ 30 MA Sec. Tapped for filament 6.3 V. @ 2 amp. Size 1 1/2 x 2 x 2 1/4" H. Ctrs. 2 3/8". Wt. 1 lb. No. 18C250. 10 Lots, **\$1.75** Each... **\$1.59**

120 V. @ 40 MA Sec. Tapped for filament 6.3 V. @ 1 amp. Size 2 1/8 x 2 1/8 x 1 7/8" H. Ctrs. 2 7/8". Wt. 1 lb. No. 13A138. 10 Lots, **\$1.79** Each... **\$1.62**

140 V. @ 75 MA Sec. Filament 6.3 V. @ 1.5 amp. Size 2 5/8 x 2 1/4 x 2 1/4" H. Mtg. ctrs. 3 1/8". Shpg. wt. 1 1/2 lbs. 13B466. 10 Lots, **\$1.99** Each... **\$1.75**

540 V. CT @ 70 MA Sec. Filaments 6.3 V. @ 2 amp and 6.3 V. @ .6 amp. Electrostatically shielded. Bright zinc finished. Only 3x2 1/2 x 2 5/8" H. Mtg. ctrs. 3 3/8". Wt. 2 lbs. 13A462. 10 Lots, **\$2.79** Each... **\$2.55**

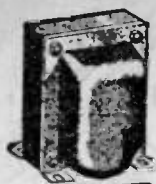
# SUPER VALUE! POWER SUPPLY KITS PRICED LESS THAN YOU USUALLY PAY FOR THE TRANSFORMER ALONE!



SPECIAL \$4.98



SPECIAL \$5.96



SPECIAL \$7.97

250 V. DC, 50 MA POWER TRANSFORMER—Rated 500 V. CT @ 50 MA, 6.3 V. @ 2 amp, 5 V. @ 2 amps. Coded wire leads. Upright mtg. Size 3 1/8 x 2 1/4 x 3 1/8" H. FILTER CHOKE—4.5 hy. @ 50 MA. 1 3/8 x 1 1/4 x 1 1/4", mtg. ctrs. 2". No. 19B552. Complete Kit with Schematic... **\$4.98**

ELECTROLYTIC CONDENSER—Rated 20-20 mfd. @ 450 volts. Twist-prong type. Size 1x3". Shpg. wt. 4 lbs. No. 19B552. Complete Kit with Schematic... **\$4.98**

300 V. DC, 90 MA POWER TRANSFORMER—Rated 600 V. CT @ 90 MA, 6.3 V. @ 3 amps, 5 V. @ 2 amps. Coded wire leads. Upright mtg. Size 2 7/8 x 3 1/4 x 3 7/8" H. FILTER CHOKE—10 Hy. @ 90 MA. 2 3/8 x 2 x 2". Mtg. ctrs. 2 3/4". No. 19B553. Complete Kit with Schematic... **\$5.96**

ELECTROLYTIC CONDENSER—Rated 20-20 mfd. @ 450 volts. Twist-prong type. Size 1x3". Shpg. wt. 5 lbs. No. 19B553. Complete Kit with Schematic... **\$5.96**

335 V. DC, 120 MA POWER TRANSFORMER—Rated 670 V. CT @ 120 MA, 6.3 V. @ 3 amps, 6.3 V. @ 3 amps, 5 V. @ 3 amps. Coded wire leads. Upright mtg. Size 2 7/8 x 3 3/8 x 3 1/2" H. FILTER CHOKE—10 hy. @ 120 MA. 2 3/8 x 2 x 4". Mtg. ctrs. 3 3/8". No. 3A162. Complete Kit with Schematic... **\$7.97**

ELECTROLYTIC CONDENSER—Rated 20-20 mfd. @ 450 V. Twist-prong type. Size 1x3". Shpg. wt. 9 lbs. No. 3A162. Complete Kit with Schematic... **\$7.97**

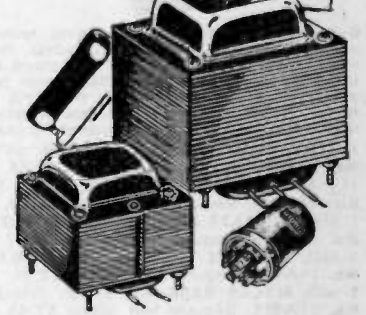
### EXTRA HEAVY DUTY 300 V. DC 200 MA KIT REAL "POWERHOUSE" BUY AT BIG \$\$\$ SAVINGS

HIGHEST QUALITY COMPONENTS THROUGHOUT—AT WAY BELOW THE USUAL COST!

Provides DC output for transmitters, amplifiers, lab. and experimental devices. B-A buyers have gone all out to beat rising components costs. They "scored" by buying an entire stock of matched transformers and chokes that were originally intended for government production. These high quality units are standard half-shell type, better than normal because of more iron and superior construction. Color coded 12" wire leads. Light grey enamel finish.

KIT CONSISTS OF:  
1—POWER TRANSFORMER. Conservatively rated at 650 V. CT @ 200 MA, 6.3 V. CT @ 5 A, 5 V. CT @ 3 A. Primary 117 V. 60 cy. AC. Compact half-shell construction allows space saving installation. Size 3 1/2 x 4 1/8 x 4 1/8" high. Extends only 3 1/8" above chassis.  
1—FILTER CHOKE. Rated 8 hy. @ 200 MA. Also compact half-shell type. Size 2 1/2 x 3 x 2 3/8" high. Extends 2" above chassis.  
DUAL FILTER CONDENSER. Twist-prong type electrolytic rated 10-10 mfd. @ 500 volts.  
1—BLEEDER RESISTOR. 25,000 ohm, 20 watt. Complete with wiring instructions. Shpg. wt. 10 lbs. No. 3B158. SPECIAL NET... **\$8.88**

A REAL STEAL \$17.50 VALUE \$8.88



### EXTRA HEAVY DUTY 1200 V. CT 300 MA TRANSFORMER



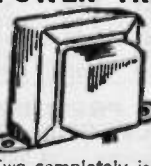
REG. NET VALUE OVER \$15.00 \$9.95

6.3 V. @ 5 amps; 5 V. @ 3 amps. 115 V. pri. Over — lbs. of real husky power transformer at a terrific savings. Convenient upright mtg. Size 3 7/8 x 5 1/4 x 4 5/8" H. Shpg. wt. 12 lbs. No. 3A105. Special Each... **\$9.95**

8 HY @ 300 MA CHOKE

Just right for pairing with transformer like above. DC resistance 70 ohms. Strap mtg. type. 3 7/8 x 4 x 4 5/8" H. 3 x 2 1/8" ctrs. Wt. 8 lbs. Reg. net over \$11.00. No. 13A240. Special Each... **\$5.95**

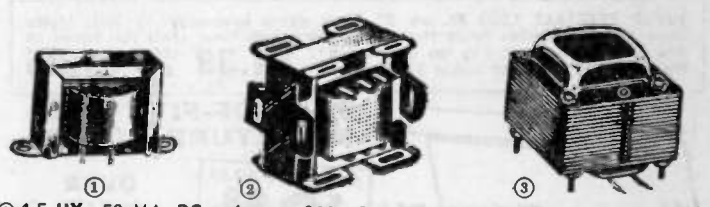
### 35 WATT ISOLATION POWER TRANSFORMER



\$2.79

Two completely isolated windings, 110 V. and 117 V. Eliminates shock hazard in testing and servicing AC-DC equipment. Can also be used as 117 V. power transformer rated at 350 MA for 1/2 watt selenium rectifier circuits. 9" wire leads. 2 3/4 x 2 1/2 x 2 1/4" H. Mtg. ctrs. 3 1/8". Wt. 1 3/4 lbs. 13B463. 10 Lots, **\$2.79** Each... **\$2.55**

### FILTER CHOKES AT TREMENDOUS SAVINGS



① 4.5 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. Reg. net value \$1.30. No. 13A460. Special Each... **79c**

② 8 HY., 75 MA. DC resistance 290 ohms. Univ. mtg. type. Size 2 1/2 x 1 3/4 x 2 1/8" H. Wt. 1 lb. Stancor C-1355. Reg. \$2.60. No. 13A593. Special Each... **\$1.29**

③ SUPER VALUE! HEAVY DUTY 8 HY. 200 MA DC resistance 120 ohms. Half-shell mtg. Size only 3 x 2 1/2 x 2 3/4" H. Reg. net at least \$5.50. Wt. 3 lbs. No. 3B104. Special Each... **\$2.49**

④ 6 HY., 100 MA. DC resistance 200 ohms. Strap mtg. type. Size 2 3/8 x 2" H. with 2 1/8" mtg. ctrs. Wt. 1 1/2 lbs. Reg. net value \$3.00. No. 13A461. Special Each... **\$1.59**

⑤ 7 HY., 150 MA. DC resistance 200 ohms. Strap mtg. type. Size 4 x 2 1/4 x 2 5/8" H. with 3 3/8" mtg. ctrs. Wt. 2 lbs. Reg. net value over \$3.50. No. 13A239. Special Each... **\$2.39**

⑥ EXTRA HEAVY DUTY FILTER CHOKE

### EXTRA HEAVY DUTY FILTER CHOKE



\$2.99

4.5 HY. 260 MA. Exceptional value! Popular upright mtg. style. DC resistance 80 ohms. Size 3 1/4 x 3 1/4 x 3 1/8" H. Wt. 4 1/2 lbs. Would regularly cost at least \$6.75. No. 13A527. Special Each... **\$2.99**

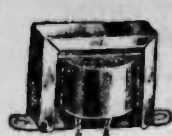
### BARGAIN SPECIAL! AC-DC FILTER CHOKES



5 FOR \$1.95

AMAZING SAVING! REGULAR VALUE OVER \$1.50 EACH. Popular type same as used in hundreds of AC-DC radios and amplifiers. Rated 50 MA DC, 150 ohms. Strap mtg. size 1 5/8 x 1 1/8 x 1 7/8" H. No. 18C222. 5 For... **\$1.95**

# FILAMENT TRANSFORMERS AT BIG SAVINGS!



AS LOW AS  
**99c**

① 6.3 V. @ 1 A.



**\$2.59**

6.3 V. @ 5 A.  
6.3 V. @ 2 A.

## ALL HAVE 117 V. 60 CY. AC PRIMARIES SINGLE SECONDARY

① 6.3 V. @ 1 AMP  
Size 1 5/8" x 2 3/8" x 1 1/2" with 2 3/8" mtg. ctrs. Wt. 1 1/4 lb.  
No. 13A498. Special Each... **99c**

② 6.3 V. @ 1.5 AMPS  
Size 2 x 2 3/8" with 3" mtg. ctrs. Wt. 1 1/4 lbs.  
No. 18C644. Special Each **\$1.29**

③ 12.6 V. @ 2 AMP  
Size 2x3 1/4 x 1 3/4" with 2 1/8" mtg. ctrs. Wt. 2 lbs.  
No. 13A243. Special Each. **\$1.99**

④ Heavy Duty 6.3 V. @ 5 Amps  
Beautifully made, fully enclosed, in shiny black finish. Also may be used as power transformer with additional 120 V. @ 30 MA sec. Size 2 1/4 x 2 3/8 x 2 3/8" H. with 2 7/8" mtg. ctrs. Shpg. wt. 1 3/4 lbs.  
No. 13A427. Special Each. **\$2.39**

① 6.3 V. @ 2 AMPS  
Size 1 7/8 x 1 5/8" with 2 7/8" mtg. ctrs. Wt. 1 lb.  
No. 18B297. Special Each. **\$1.39**

② 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. 18B140. Special Each. **\$1.59**

③ 5 V. @ 2 AMP  
2500 volts test insulation. Size 1 5/8 x 2 1/2 x 1 1/2" with 2 3/8" mtg. ctrs. Wt. 1 lb.  
No. 13A241. Special Each. **\$1.29**

④ 5 V. @ 6 AMP  
2500 volt test insulation. Size 2 1/4 x 3 1/4 x 1 1/2" with 3 1/8" mtg. ctrs. Wt. 2 lbs.  
No. 13A242. Special Each. **\$1.99**

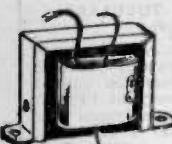
## DUAL SECONDARY

⑤ 6.3 V. @ 5 A. & 6.3 V @ 2 A.

Fully enclosed. Size 2 1/2 x 2 3/4 x 3" H. with 3 1/8" mtg. ctrs. Shpg. wt. 2 1/2 lbs. Worth at least \$5.00.  
No. 13B464. Special Each. **\$2.59**

⑥ 6.3 V. @ 2 A & 24 V. @ 3/4 A.  
Fully enclosed. 2 1/4 x 2 1/4 x 3" H. with 2 3/8" mtg. ctrs. 24 V. winding supplies up to 2 amps for intermittent service. Wt. 1 1/2 lbs.  
No. 13A423. Special Each. **\$2.69**

## HEAVY DUTY 24 VOLT FILAMENT TRANSFORMER



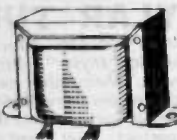
**\$179**

REG. NET VALUE  
OVER \$3.00!

Converts 24 volt AC equipment for operation on 110 V. AC. Ideal for motors, relays, rectifier power supplies, etc. Handles continuous duty loads up to 1 amp. 2 1/2 x 1 3/4 x 2 1/4" high with 3 1/8" mtg. ctrs. Shpg. wt. 1 1/2 lbs.  
18C637. **\$179** 10 Lots, **\$155** Spec., Each. Each...

## MIDGET 24-VOLT TRANSFORMER

**69c**  
10 Lots, Ea.



Fully enclosed, continuous duty type. Use for powering signal devices such as bells and buzzers, supplying filament voltage for miniature bulbs, etc. Rated 3 amps with fully isolated 115 V. 60 cy. AC primary. Size 1 3/8" H. x 1 1/2" W. 2" mtg. ctrs.  
18B506. **85c** 10 Lots, **69c** Special Each Each...

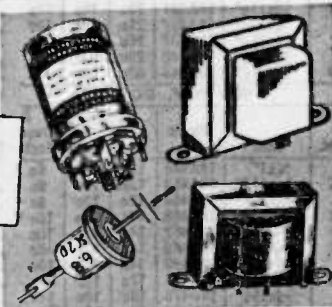
## SAVE! MIDGET POWER SUPPLY KIT

120 VOLT DC 40 MA  
FULLY ISOLATED FROM  
110 VOLT AC LINE

AT LEAST  
A \$7.50  
VALUE

**\$3.59**

FINE FOR POWERING SMALL  
RECEIVERS, PREAMPS, TEST  
GEAR, BIAS SUPPLIES... ALL  
SORTS EXPERIMENTAL DEVICES



With silicon diode rectifier for cool operation and Instant voltage output. Fully filtered DC, fine for powering small receivers, preamps, test gear, bias supplies, experimental devices of all sorts. Also has 6.3 volt @ 1 amp non-isolated filament winding. Power transformer size 2 3/8 x 2 1/8 x 1 1/2" H; 4.5 hv. Choke, size 1 1/2 x 1 3/8" H; 30-30 @ 150 V. twist-prong condenser, 1 1/2 x 2"; 500 MA silicon rectifier. Includes wiring diagram.  
No. 3A108. Complete Kit, Special Each... **\$3.59**

## MIDGET FILAMENT TRANSFORMER



**69c**  
Each, 10 Lots

6.3 V. @ .75 Amp. 117 V. 60 cy. 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.  
No. 18B135. Special Each **79c** 10 Lots, **69c** Each...

## TRIPLE SECONDARY Filament TRANSFORMER

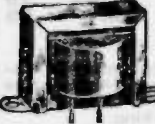


**\$3.49**

REAL  
UNUSUAL VALUE

Three Secondaries: 6.3 V. @ 5 Amp, 5 V. @ 2 Amp and 5 V @ 2 Amp, 117 V. 60 cy. AC primary. A whole lot of transformer with many experimental possibilities. Windings can be paralleled for higher current or connected in series for higher voltage. Versatile universal mtg. above or below chassis or vertical upright. 2 1/2 x 3 1/4 x 3". Wt. 3 lbs.  
No. 13A424. Special Each. **\$3.49**

## OUTPUT TRANSFORMERS



AS LOW AS  
**59c**

For 50L6, 25L6, 35L6 etc. to 3-4 ohm V.C. 2" mtg. ctrs. x 1 1/4" H.  
18A888. **59c** 10 Lots, **49c** Each...  
For single 6V6 to 4 ohm V.C. Mtg. ctrs. 2 3/4".  
18B1072. **79c** 10 Lots, **69c** Special Each Each...  
For push pull 6V6 to 3-4 ohm V.C. 2 1/2" mtg. ctrs. x 2" H.  
18A519. **99c** 10 Lots, **89c** Special Each Each...

## SUB-MINIATURE AUDIO TRANSFORMERS

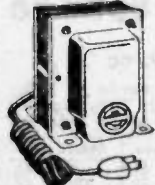


**39c**

REG. NET  
VALUES  
OVER  
\$3.00

High and low impedance windings, 100 ohms and over 100,000 ohms, for coupling dynamic earsets to amplifier or radio output, or for matching magnetic, dynamic or carbon mike to amplifier tube grid. Truly tiny, 3/4 x 5/8 x 1/2". Weighs less than 1 oz.  
No. 18B658. **39c** 10 Lots, **29c** Special Each Each...

## VARIABLE-ISOLATION TRANSFORMER PRIMARY AND SECONDARY COMPLETELY ISOLATED



**\$7.95**

AT LEAST  
A \$20.00  
VALUE!

Delivers 150 Watts at 115 V. from 90-250 V. Source. Useful in adapting 115 V. AC equipment to 230-250 volt 50-60 cy. AC supply, or as an adjustable power source for testing, experimenting, etc. Has separate primary and secondary, 6 position primary tap switch, 6 ft. cord and plug. Mtg. ctrs. 3 x 3 1/4". Shpg. wt. 9 lbs.  
No. 13A542. Special Each **\$7.95**

# YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

## TRANSFORMERS

ALL ARE  
BRAND NEW!  
FULLY GUARANTEED!

## 12 VOLT VIBRATOR POWER TRANSFORMER FANTASTIC GIVE AWAY PRICE



YOUR CHOICE  
**69c**

135 V. DC @ 118 MA. Fully cased hermetically sealed. Solder terminals. 2 3/8 x 2 7/8 x 2 1/8" H. Wt. 3 lbs.  
No. 13B458. Special Each... **69c**

170 V. DC @ 70 MA. Full shell upright. 2 1/2 x 2 3/4 x 3 1/8". Wt. 3 lbs.  
No. 13A767. Special Each... **69c**

## INTERSTAGE TRANSFORMER AS USED IN CODE OSCILLATORS



**\$129** REG. NET  
**\$1.98**

Single Plate to Single Grid  
Popular 3 to 1 audio as used in practically all transformer coupled audio amplifiers and code practice oscillators. 10,000 ohm primary Works into single Class A grids. Size 1 3/4 x 1 1/4 x 1 3/8" H. with 2" mtg. ctrs. Shpg. wt. 1 lb.  
No. 13A309. **\$129** 10 @ **\$115** Each... Each...

## Single Button CARBON MIKE TRANSFORMER

Worth  
Many  
Times  
Our  
Price

**69c**



FINE FOR WALKIE-TALKIES AND OTHER  
MINIATURE GEAR  
Miniature, fully enclosed with convenient mounting flanges. Size only 7/8" dia. x 1 3/4" long. Primary 100 ohms. Secondary 125,000 ohms. Priced at a fraction of its original cost.  
18A695. **69c** 10 Lots, **63c** Special Each Each...

## 2 VOLT STORAGE BATTERY

WILLARD  
24 AMP  
HOUR

**\$3.95**

WORTH  
AT LEAST  
DOUBLE



In clear plastic case 2 x 2 x 6 1/2" H. Built-in charge indicator. Screw terminals. Shipped dry. Requires regular battery acid. Wt. 3 lbs.  
No. 4A88. Special Each... **\$3.95**



# BA BARGAINS

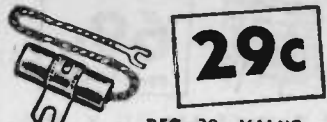
## CONDENSERS

YOU SAVE \$\$\$ ON THESE SPECIAL

ALL ARE BRAND NEW! FULLY GUARANTEED!

# CONDENSERS AT LOWEST PRICES EVER!

B-A SPECIAL PURCHASE OF BRAND NEW CAPACITORS DIRECT FROM ORIGINAL PRODUCERS MAKES POSSIBLE THESE FANTASTIC SAVINGS!



**29c**

REG. 39c VALUE  
**GENERATOR FILTER**  
 .5 Mfd. @ 250 Volts for auto radios.  
 Metal encased with insulated lead.  
 No. 17A246. **29c** 10 Lots, **23c**  
 Spec., Each



AS LOW AS  
**6c**

SAVE UP TO 50%

## MOLDED TUBULARS

Plastic impregnated to withstand high temperatures encountered in Radio, TV and other common electronic circuits. Rugged and compact, highly stable. A premium quality capacitor for service replacement and construction.

### TV HIGH-VOLTAGE CERAMIC CAPACITORS



\$2.25 LIST VALUE  
**49c**

500 MMFD. @ 20,000 VOLTS  
 Centralab Hi-Vo Kap standard TV replacement type also ideal as coupling condenser in shunt fed plate circuits. With 8-32 male and 6-32 female threaded terminals. Reg. net \$1.02.  
 No. 18B815. **49c** 10 Lots, **44c**  
 Spec. Each

500 Mmfd. @ 30,000 Volts. Reg. \$1.76.  
 No. 18B816. **69c** 10 Lots, **59c**  
 Spec. Each

### EPOXY COATED TRANSISTOR MYLARS



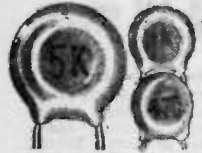
AS LOW AS  
**24c**

REG. NET OVER TWICE OUR PRICE

Finest quality midget size condensers designed specifically for transistor and other circuits where highly stable, reliable service is required. Oval shape with high insulation resistant Mylar dielectric and moisture tight Epoxy coating. Reg. net over twice our price. 50 V. DC Working.

Stk. No.	Mfd.	Each	10 @ Ea.	Stk. No.	Mfd.	Each	10 @ Ea.
18A342	.01	\$0.24	\$0.19	18A344	.1	.35	.29
18A343	.05	.24	.19	18A345	.22	.35	.29

### MITE SIZE DISC CERAMICS



10 FOR  
**59c**

Actual Size

Ideal for general replacement, construction, industrial, etc. Has moisture resistant, durable high voltage coverings. 600 V. DC working.

No. 18A334—470 Mmf.  
 No. 18A568—1000 Mmf.  
 No. 18A569—5000 Mmf.  
 Choice (Not Assd.) 10 For. **59c**  
 100 For. **\$4.95** 1000 For. **\$39.00**

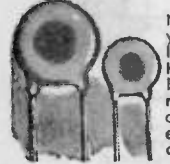
### 50 ASSORTED DISC CERAMICS



\$7.50 VALUE  
**\$1.99**

Includes plenty of the 3 popular capacities as shown above plus numerous other often needed sizes. A real hot value! Comparable condensers are regularly priced at 15c each. A \$7.50 value.  
 No. 18A94. 50 Assorted. **\$1.99**

## HIGH VOLTAGE GENERAL PURPOSE DISC CERAMIC CAPACITORS



Now, at far less than you normally pay for lower voltage types. Here are finest quality high voltage discs recommended for industrial, TV service, etc. wherever disc ceramics are used.

3000 W. V. DC  
 Tolerance: 4.7 to 60 mmfd ± 10%.  
 68 to 1000 mmfd ± 20%; Specify Stock No. and Mmfd when ordering.

Mmfd. Dia.	Mmfd. Dia.	Mmfd. Dia.
4.7 3/8	50	250
6.8 3/8	60	270
10 3/8	68	300
12 3/8	100	330
15 3/8	120	390
22 3/8	150	470
33 3/8	180	680
39 3/8	200	1000
47 3/8	220	

No. 18A56. Regular 24c Net Value.  
 Ch. **14c** 10-49 **12c** 50 & **10c** Over

5000 W. V. DC  
 Tolerance: ± 20%. Specify Stock No. and Mmfd when ordering.

Mmfd. Dia.	Mmfd. Dia.	Mmfd. Dia.
4.7 3/8	47	330
10 3/8	100	470
22 3/8	220	

No. 18A57. Regular 27c Net Value.  
 Ch. **15c** 10-49 **13c** 50 & **11c** Over

1600 W. V. DC  
 Tolerance: 4.7 to 100 mmfd ± 10%;  
 150 to 1000 mmfd ± 20%; 1200 to 3300 mmfd. GMC. Specify Stock No. and Mmfd when ordering.

Mmfd. Dia.	Mmfd. Dia.	Mmfd. Dia.
4.7 3/8	47	390
6.8 3/8	56	470
10 3/8	62	680
12 3/8	68	1000
15 3/8	82	1200
18 3/8	150	1500
20 3/8	180	2000
22 3/8	220	2200
33 3/8	330	3300

No. 18A54. Regular 18c Net Value.  
 Choice **10c** 10-49 **9c** 50 & **8c** Over

2000 W. V. DC  
 Tolerance: 4.7 to 82 mmfd ± 10%;  
 100 to 1500 mmfd ± 20%; Specify Stock No. and Mmfd when ordering.

Mmfd. Dia.	Mmfd. Dia.	Mmfd. Dia.
4.7 3/8	68	300
6.8 3/8	75	330
10 3/8	82	390
15 3/8	100	470
22 3/8	120	500
33 3/8	150	560
39 3/8	180	680
47 3/8	200	1000
56 3/8	220	1500
62 3/8	270	

No. 18A55. Regular 21c Net Value.  
 Ch. **11c** 10-49 **10c** 50 & **9c** Over

100 W. V. DC					400 W. V. DC				
Mfd.	Size	Stock No.	Reg. Net	10@ Each	Mfd.	Size	Stock No.	Reg. Net	10@ Each
.01	1/2x1 1/4"	18A541	15c	8c 5c	.001	3/8x1"	18A273	15c	8c 6c
.047	3/8x1"	18A542	15c	6c 5c	.0022	3/8x1"	18A275	15c	8c 6c
.05	3/8x1"	18A543	15c	6c 5c	.0033	3/8x1"	18A276	15c	8c 6c

150 W. V. DC				
Mfd.	Size	Stock No.	Reg. Net	10@ Each
.1	1/2x 3/8"	18A226	21c	9c 7c

200 W. V. DC				
Mfd.	Size	Stock No.	Reg. Net	10@ Each
.0022	3/8x 3/8"	18A239	15c	8c 6c
.0047	3/8x 3/8"	18A243	15c	8c 6c
.01	1/2x 3/8"	18A245	15c	8c 6c

600 W. V. DC				
Mfd.	Size	Stock No.	Reg. Net	10@ Each
.0047	3/8x1"	18A561	15c	9c 7c
.015	3/8x1 1/2"	18A744	18c	10c 8c
.02	3/8x1 1/2"	18A565	15c	10c 8c

200 W. V. DC				
Mfd.	Size	Stock No.	Reg. Net	10@ Each
.0022	3/8x 3/8"	18A239	15c	8c 6c
.0047	3/8x 3/8"	18A243	15c	8c 6c
.01	1/2x 3/8"	18A245	15c	8c 6c

\*Import Specials

### SAVE \$\$\$! BUY THESE ASSORTMENTS



\$7.50 REGULAR NET VALUE  
**\$1.99**

### 50 ASSORTED MOLDED TUBULARS

100 to 600 Volt

A popular selection of voltages and capacities as above plus a few equally valuable sizes in which quantities were too limited to list. Here is an assortment of highest quality plastic impregnated condensers that will pay for itself in no time at all. Reg. net value at least \$7.50.  
 No. 18A92. 50 Assorted. **\$1.99**



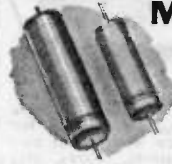
\$7.00 REGULAR NET VALUE  
**\$1.99**

### 35 ASSORTED MOLDED TUBULARS

400 and 600 Volt

A truly top value assortment that is a must for every electronic user. Includes a very liberal selection of the capacities most often required. Reg. net value at least \$7.00.  
 No. 18A93. 35 Assorted. **\$1.99**

## MOLDED MYLAR TUBULARS



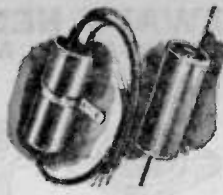
Superior quality molded tubulars fabricated with DuPont's renowned dielectric "Mylar". Provides more rugged, longer life service. Maintains excellent electrical characteristics at high temperature (550° C to 130° C). Moisture resistance, non-inductive, and thermost. Every-one brand new and perfect. Buy plenty now at far less than you would usually pay for ordinary paper tubulars.

200 W. V. DC					600 W. V. DC				
Mfd.	Size	Stock No.	Each	10-49 Over Each	Mfd.	Size	Stock No.	Each	10-49 Over Each
.02	1/2x1 1/4"	18A400	12c	10c 9c	.0001	3/8x1"	18A399	12c	10c 9c
.047	3/8x1"	18A398	12c	10c 9c	.00025	3/8x1"	18A589	12c	10c 9c
.05	3/8x1"	18A420	12c	10c 9c	.0004	3/8x1"	18A590	12c	10c 9c

400 W. V. DC				
Mfd.	Size	Stock No.	Each	10-49 Over Each
.01	1/2x1"	18A446	12c	10c 9c
.015	3/8x1"	18A459	12c	10c 9c
.02	3/8x1"	18A464	12c	10c 9c

# TUBULAR ELECTROLYTICS

Finest quality compact tubular capacitors hermetically sealed in aluminum container with plastic sleeve and tinned copper leads. Dual types shown are metal-cased, have cardboard sleeves, vinyl insulated leads and common negative.



6 W. V. DC					
Mfd.	Size	Stock No.	Each	10-49 Each	50 or Over Each
500	1/2 x 1 1/2"	18A748	48c	42c	39c
1000	3/4 x 2"	18A747	56c	51c	47c
2000	1 x 2 1/2"	18A748	69c	62c	56c

15 W. V. DC					
Mfd.	Size	Stock No.	Each	10-49 Each	50 or Over Each
250	3/4 x 1 1/2"	18A749	46c	42c	39c
500	1 x 2"	18A750	52c	47c	42c
1000	1 x 2"	18A751	69c	62c	56c
2000	1 x 3"	18A753	95c	86c	76c

25 W. V. DC					
Mfd.	Size	Stock No.	Each	10-49 Each	50 or Over Each
20	3/4 x 1 1/2"	18B460	33c	30c	27c
50	3/4 x 1 1/2"	18B461	35c	32c	29c
100	3/4 x 1 1/2"	18A743	41c	37c	33c
250	3/4 x 1 1/2"	18A771	52c	46c	42c
500	1 x 2"	18A772	69c	62c	56c

50 W. V. DC					
Mfd.	Size	Stock No.	Each	10-49 Each	50 or Over Each
4	3/4 x 1 1/2"	18B462	33c	30c	27c
25	3/4 x 1 1/2"	17A857	33c	30c	27c
50	3/4 x 1 1/2"	17A859	36c	33c	30c
100	3/4 x 1 1/2"	17A860	49c	44c	39c
150	3/4 x 2"	18A789	46c	42c	39c
250	1 x 2"	18A790	52c	47c	42c

150 W. V. DC					
Mfd.	Size	Stock No.	Each	10-49 Each	50 or Over Each
8	3/4 x 1 1/2"	18A792	33c	29c	26c
12	3/4 x 1 1/2"	18C415	33c	29c	26c
20	3/4 x 1 1/2"	18C414	35c	32c	29c
30	3/4 x 1 1/2"	17A961*	36c	33c	30c
40	3/4 x 1 1/2"	17A982*	39c	36c	33c
80	1 x 2"	18C454	45c	39c	36c
100	1 x 2"	18A796	52c	47c	42c
150	1 x 3"	18A797	57c	51c	47c
200	1 x 3"	18A799	65c	58c	54c
300	1 x 4"	18A801	79c	69c	63c
500-5	1 x 3 1/2"	18A804	79c	71c	64c
80-20	1 x 3"	18B786	49c	42c	39c
20-20	3/4 x 1 1/2"	18A810	89c	79c	71c

250 W. V. DC					
Mfd.	Size	Stock No.	Each	10-49 Each	50 or Over Each
8	3/4 x 1 1/2"	18A812	45c	41c	37c
16	3/4 x 1 1/2"	18A817	52c	47c	42c
20	3/4 x 1 1/2"	18A818	55c	50c	45c
30	3/4 x 1 1/2"	18A819	57c	52c	47c
40	1 x 2"	18A822	62c	56c	51c
50	1 x 2"	18A823	67c	61c	56c

450 W. V. DC					
Mfd.	Size	Stock No.	Each	10-49 Each	50 or Over Each
1	3/4 x 1 1/2"	18B463	36c	32c	29c
2	3/4 x 1 1/2"	18A847	43c	39c	35c
4	3/4 x 1 1/2"	18A848	45c	41c	37c
10	3/4 x 1 1/2"	18B465	49c	44c	39c
12	3/4 x 1 1/2"	18A849	54c	49c	44c
30	1 x 2"	18B470	59c	54c	49c
60	1 x 3"	18A851	75c	69c	63c
100	1 x 4"	18B471	1.29	1.19	1.09
8-8	1 x 2 1/2"	18C412	59c	55c	49c
10-10	1 x 2 1/2"	18A855	95c	88c	80c

500 W. V. DC					
Mfd.	Size	Stock No.	Each	10-49 Each	50 or Over Each
4	3/4 x 1 1/2"	18A863	35c	32c	29c
12	3/4 x 2"	18A865	54c	49c	44c
16	1 x 2"	18A870	59c	54c	49c
20	1 x 2"	18A871	64c	58c	53c
30	1 x 2 1/2"	18A873	69c	63c	57c

\*High Quality Imports.

# SUB-MINIATURE ELECTROLYTICS FOR TRANSISTOR RADIOS, HEARING AIDS, ETC.

Ultra-small, hermetically sealed in metal containers. Measure from 1/8 to 3/8" in dia., 1/2 to 1 1/4" in length. Specify Both Stock Number and Capacity when ordering.

6 W.V. DC Stk. No. 18A32					
Reguar Net Values 75c to 90c					
Mfd.	Each	10 @ Each	Mfd.	Each	10 @ Each
1	\$.59	\$.49	25	\$.59	\$.49
2	.59	.49	50	.65	.55
8	.59	.49	100	.69	.59

15 W.V. DC Stk. No. 18A35					
Reguar Net Values 84c to \$1.08					
Mfd.	Each	10 @ Each	Mfd.	Each	10 @ Each
10	.59	.49	50	.69	.59
30	.62	.52	100	.69	.59

### BATH TUB CAPACITOR

For By-Pass Coupling and Filter Circuits. Reg. \$1.32 Net

.5 Mfd. 400 V. DC. Size 1 3/4 x 1 7/8".

No. 18B198. 10 Lots, 19c Special, Each. 15c Each.

### SUB-MIDGET TUBULARS

25 Ass't. most popular capacities. Only 1/2" dia. x 1". 600 V. DC. No. 18B330. 25 Ass't. . . . . 49c

49c 25 Assorted REGULARLY 29c EACH

### RCA 2D21 Thyratron Control Tube

REG. NET \$1.46 EA., 5 LOTS

Miniature 7 pin high-sensitivity tube commonly used in control circuits. Ideally suited for building all sorts of remote control devices. Operates direct from photo cell output. Heater voltage 6.3. Fully guaranteed. No. 70A28. 5 Lots, 79c Special Each. 69c Each.

### OD3/VR150 Voltage Regulator Tube

REG. NET \$1.27 EA., 5 LOTS

Maintains constant 150 volts DC in power supplies. Can also be used as a relaxation oscillator. All brand new and perfect. Fully guaranteed. No. 70A19. 5 Lots, 55c Special Each. 49c Each.

### TWIST PRONG ELECTROLYTICS

AS LOW AS 39c TO \$3.90

FAMOUS BRANDS!

140 Mfd. @ 150 V. Size 1 1/8 x 3 3/4". List Value \$2.15. 18C657. Each . . . . . 49c 10 Lots, 44c Each. . . . .

30-30 Mfd. @ 150 V. Size 1 1/2 x 2". List \$1.85. 18B261. Each . . . . . 39c 10 Lots, 35c Each. . . . .

20-20 Mfd. @ 350 V. Size 1 1/8 x 2". List Value \$2.90. 18C655. Each . . . . . 49c 10 Lots, 44c Each. . . . .

80-10 Mfd. @ 450 V. Size 1 3/8 x 3". List \$3.60. 18A788. Ea. . . . . 69c 10 Lots, 59c Each. . . . .

40-40/10 Mfd. @ 450/25 V. Size 1 3/8 x 3". List Value \$3.70. 18A369. Each . . . . . 89c 10 Lots, 79c Each. . . . .

### 40 MFD. AT 300 V. ELECTROLYTIC

29c Each, 10 Lots

MFG. LIST PRICE \$2.00

Popular size for general purpose filtering, for plate, screen and bias supplies, etc. Encased in compact metal can, 1x3 1/4". With vertical mtg. bracket. No. 18B787. 10 Lots, 29c Spec. Each. 29c Each.

### HI-VOLTAGE OIL-FILLED CONDENSERS

### TREMENDOUS \$\$\$ SAVINGS FROM REGULAR WHOLESALE!

• BRAND NEW! • FULLY GUARANTEED! • TOP MAKES!

Hermetically sealed in metal cans. Fig. ① is rectangular with ceramic pillar insulated terminals. Fig. ② rectangular with insulated lug terminals.

Stk. No.	Cap. Mfd.	Size, Inches H. W. D.	Wt. Lbs.	Fig.	Mfg.	Reg. Net Value	Special Each
18B196	10	5 1/2" x 3 3/4" x 1 1/4"	600 VOLTS DC	①	GE*	\$9.09	\$1.39
18A997	15	4 1/2" x 3 3/8" x 1 1/2"	600 VOLTS DC	②	Sprague†	8.95	1.99
17A996	4	5 1/4" x 1 3/8" x 3/4"	1000 VOLTS DC	②	Top Brand	6.27	.99
17A991	4	5 1/2" x 2 1/2" x 1 1/2"	1000 VOLTS DC	①	Industrial*	6.25	1.39
18B301	8	4 3/4" x 3 3/4" x 1 1/2"	1000 VOLTS DC	①	Top Brand*	9.09	2.79
18B825	5	5" x 2 1/2" x 1 1/8"	3000 VOLTS DC	①	Aerovox	10.08	1.39

\*With Mounting Brackets †Also 220 V. AC

### GIVE-AWAY VALUE! AEROVOX 1 MFD @ 3000 VOLTS OIL-FILLED CONDENSER

\$1.88 REG. NET VALUE \$12.06

• Ceramic Pillar Insulating Terminals. • Mounting Bracket Included.

### YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS CONDENSERS

ALL ARE BRAND NEW! FULLY GUARANTEED!

### HI-CAPACITY, LO-VOLT ELECTROLYTICS

\$2.65 LIST VALUE 39c

BRAND NEW! SPRAGUE

Perfect for filtering low voltage power supplies, or for cathode by-pass. Highest quality hermetically sealed. Plug into standard octal sockets.

500 Mfd. @ 50 V. Size 1 3/8 x 3". List \$2.65. 18B783. Ea. . . . . 39c 10 Lots, 35c Each. . . . .

2000 Mfd. @ 15 V. Size 1 3/8 x 1 1/4". List \$3.45. 18A517. Ea. . . . . 49c 10 Lots, 44c Each. . . . .

### 5000 VOLT FILTER CONDENSERS

HIGH CAPACITY—SMALL SIZE

\$4.95

SIMILAR RATED UNITS COST OVER \$35.00

Never, never before a capacitor deal to equal. Genuine Aerovox Type 3009—everyone new and perfect, ready to use with mounting bracket included. Size 4 7/8" H. x 3 3/4" W. x 2 1/4" D. Shpg. wt. 2 lbs. Buy plenty while they last. No. 18C335. Special Each. \$1.88

### 8-8-8 Mfd. 600 V. DC. FILTER CONDENSER

Highest quality Cornell Dubilier, oil filled type. Especially suited for transmitters, amplifiers, laboratory and industrial equipment, etc., where dependability in service is of prime importance. Has 5 lug terminals with common negative, all insulated from case. 3 3/4 x 3 1/2 x 4 3/4" H. Wt. 3 lbs. No. 18B119. Special Each. . . . . \$3.95

At least a \$15.00 value!

\$3.95 B-A SUPER VALUE



# YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

## EXPERIMENTERS AND BUILDERS



ALL ARE BRAND NEW! FULLY GUARANTEED!

### CHASSIS MOUNTING AC SOCKETS



**10c**  
Each, 10 Lots

REG. NET 15c

Fits standard AC plugs. Fine for repairs or new construction. Mounts in 7/16"x3/8" hole. Mtg. ctrs. 1 1/8".  
No. 18B26. 12c 10 Lots, 10c Each...  
With 8-Inch Wire Leads  
No. 18A351. 10c 10 Lots, 12c Spec. Each...  
14c Each... 12c

### TWO-WIRE JIFFY CONNECTOR



**23c**

Handiest ever for quickly attaching and removing speaker leads, 115 V. AC leads to turntable motor, for electrical and electronic devices around the auto, shop, etc. Consists of top quality black bakelite 2 conductor male and female polarized plugs each with 15" stranded size, 18 leads attached.  
No. 18A109. 23c 10 Pr. 19c Spec. Per Pr. Each...

### 2-WIRE Midget AC LINE CONNECTOR SET



5 SETS  
**99c**

Perfect and handy for extending AC cords, speaker leads, etc. Small brown bakelite. Makes sturdy, positive connection. Import savings.  
No. 17A75. 24c 5 Sets. 99c Per Set...

UL 18/2 PARALLEL CORD  
Extra flexible brown all rubber parallel cord. Bargain priced.  
No. 2A49. 59c 100 Ft. \$1.89 25 Ft. For...

### PIGTAIL LEAD PILOT LAMP SOCKETS

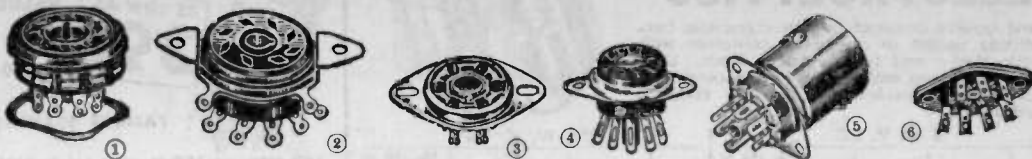
BARGAIN PRICED



**15c**

Fully insulated, with metal mounting clip and attached insulated stranded lead for easy connection. Fine for repairs, builders and experimenters. For Miniature Bayonet Lamps 8" wire leads.  
No. 18A111. 15c 10 Lots, 12c Special Each...  
For Candelabra Screw Base Lamps (S6) 24" wire leads.  
No. 18A110. 10c 10 Lots, 15c Special Each...

# SAVE ON THESE ALWAYS NEEDED TUBE SOCKETS ALL ARE TOP BRAND, FINEST QUALITY, AT LOWEST PRICES ANYWHERE



MANY PRICED BELOW MANUFACTURER'S REGULAR OEM COST

Stock No.	Fig.	Pin	Insul.	Mtg. Hole	Mtg. Ctr.	Each	10 Each	100 Each	Stock No.	Fig.	Pin	Insul.	Mtg. Hole	Mtg. Ctr.	Each	10 Each	100 Each
18B668	1	Octal	Bakelite	1 1/4"	1 1/2"	.12	.11	.09	17B70	5	7 Min.	Ceramic	3/8"	3/8"	.23	.20	.15
18C210	2	Octal	Bakelite	1 1/4"	1 1/2"	.08	.07	.06	18C894	4	9 Min.	Bakelite	1 1/4"	1 1/2"	.11	.10	.08
18B159	2	Octal	Mica	1 1/4"	1 1/2"	.11	.10	.07	18B456	4	9 Min.	Mica	3/8"	1 1/4"	.12	.11	.09
18B677	3	Octal	Bakelite	1 1/4"	1 1/2"	.15	.14	.12	18B652	5	9 Min.	Mica	3/8"	1 1/4"	.19	.17	.12
18A832	3	Octal	Ceramic	1 1/4"	1 1/2"	.29	.24	.15	18B487	5	9 Min.	Ceramic	3/8"	1 1/4"	.28	.24	.18
18C893	4	7 Min.	Bakelite	3/8"	3/8"	.08	.07	.05	18A1093	6	7 Min.	Wafer	3/8"	3/8"	.07	.04	.03
18C639	4	7 Min.	Ceramic	3/8"	3/8"	.12	.10	.08	18B455	6	9 Min.	Wafer	1 1/4"	1 1/4"	.08	.06	.05
18B653	5	7 Min.	Mica	3/8"	3/8"	.14	.12	.08									

### MINIATURE SOCKETS WITH SNAP-ON SHIELDS



**24c**  
Each, 10 Lots

Low loss isolantite ceramic with shield base and snap-on plated metal shield with hold-down spring. 7-pin shield 1 3/4" long; 9-pin 1 1/2".  
7-Pin Socket & Shield. Reg. Net 44c No. 17B273 10 Lots 24c Net Each...  
9-Pin Socket & Shield. Reg. Net 44c No. 18C206. Ea. 39c 10, Ea. 33c

### OCTAL PLUG AND SOCKET SET



**39c** Set  
10 Set Lots

Most popular combination for power cables, speakers, remote control, etc. Highest quality standard octal 8-prong, black bakelite plug with snap-on metal cap and clip-tite black bakelite socket with removable mounting plate. Reg. net 56c.  
No. 18C207 10 Sets 44c Per Set... 39c Each...

### SUB-MINIATURE TUBE & TRANSISTOR SOCKET



SIZE ONLY  
**12c**  
Reg. Net 27c  
Each 10 Lots  
7/16"x7/32" 7/16" High

Accommodates 4 and 5-pin sub-miniature tubes, also most transistors.  
No. 17B250. 14c 10 Lots, 12c Net Each...  
100 Lots Each... 11c  
Popular 3-Contact Transistor Socket. Import savings.  
No. 17C684 10 Lots 17c Each... 14c Net Each...

### LOOK AT THIS SAVING! RF CHOKE



**27c**  
Each 10 Lots  
REG. 40c NET

RATED 2 1/2 MH 125 MA  
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.  
No. 18B42. 30c 10 Lots, 27c Net Each... 27c Each...

### GLAZED STEATITE ANTENNA INSULATOR



**39c**

3 5/8" long, 5/8" diameter. Copper electroplated end caps with heavy layer of nickel. Body corrugated to provide long leakage path. Withstand end-pull of several hundred pounds. Ideal for any antenna. Shpg. wt. 7 oz.  
No. 18B167. 39c 10 Lots, 33c Each...

### BARE COPPERWELD ANTENNA WIRE



500 FT. COIL  
**\$1.88**

BIG PRICE REDUCTION!  
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 \$1.88 500 Ft. Coil...  
3000 Ft. Spool. Wt. 20 lbs. \$9.95

### DOUBLE SLUG TUNED 456 KC MIDGET IF



REGULAR \$1.29  
VALUE **39c**  
Each, 10 Lots

Only 7/8" square x 1 1/2" high. Universal input or output.  
No. 16A717 49c 10 Lots 39c Each...

### BIG SAVINGS TYPE 47 PANEL LAMPS



10 FOR **59c**  
REG. NET 12c EACH  
Standard min. bayonet base type.

Fine quality import.  
No. 17A362. 59c 10 Bxs. 45c Box of 10... Each...

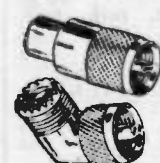
### G-E NEON LAMPS LIKE NES1 AND NE2



10 FOR **\$1.29**  
REGULARLY OVER 20c EACH

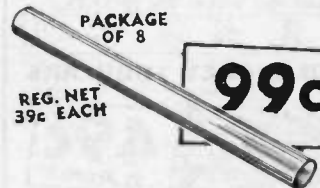
Operates on 115 V. AC-DC with external 200,000 ohm resistor. Fine for pilot light, neon audio level indicator, RF indicator, audio oscillators, etc. Fits std. min. bayonet base sockets.  
No. 18A831. 15c 10 For \$1.29 Spec. Each...

### COAX CABLE CONNECTORS FOR RG-11U AND 8U



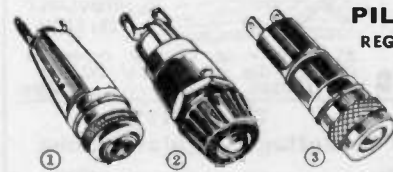
**69c**  
SET OF 2  
REGULAR NET PRICE \$2.18!

PL259A cable end for RG8U or RG11U plus the handy angle connector... at less by far than the usual cost of one alone. Made to Gov't specs. and silver plated. New and perfect except for slight silver tarnish which in no way harms the usability.  
18C642. 69c 10 Pair, 59c Per Pair...



PACKAGE OF 8  
REG. NET 39c EACH  
**99c**

12-INCH LENGTHS POLYSTYRENE TUBING  
Transparent and colorless. Unexcelled for high frequency insulation, coil forms, etc., because of its very low loss factor. Also popular in hobby work. 12" lengths. 3/4" O.D., 1/8" I.D.  
No. 17A877. 99c Pkg. of 8...



### PILOT LITE ASSEMBLIES

REG. NET VALUES AT LEAST 90c EA.  
YOUR CHOICE **29c**

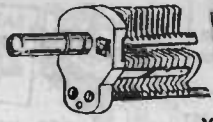
For standard miniature filament type single contact bayonet base bulbs. All 3 types have variable intensity feature which varies light through the lens from "bright" to "dim". Bulbs are removable from the front. Have solder lug terminals. Mount in 5/8" hole. Extend 1 1/2" depth behind panel.  
① Smooth Yellow Jewel. All metal, nickel finish. No. 18A14. 29c 10 Lots, 25c Special Each...  
② Smooth Amber Jewel. All bakelite, black finish. No. 18A13. 29c 10 Lots, 25c Special Each...  
③ Smooth Green Jewel. Bakelite body with removable metal lens assembly. No. 18A350. 29c 10 Lots, 25c Special Each...

# MIDGET VARIABLES AT GIVE-AWAY PRICES!



AS LOW AS  
**29c**

VALUES TO \$2.50

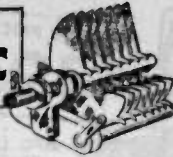


AS LOW AS  
**99c**

VALUES TO \$2.40

**79c**

REG. NET OVER \$2.00



## HAMMARLUND "MC"

75Mmf.—8 Mmf. Ceramic insulated, single spaced heavy brass NP plates, positive wiping contacts, long 1/4" shafts. Single-hole bracket mount. Size 1 3/8" W x 1" D behind panel. No. 18B585. Special Each ..... **79c**

**BARGAINS**  
YOU SAVE \$\$\$ ON THESE SPECIAL

## VARIABLE CONDENSERS



ALL ARE BRAND NEW!  
FULLY GUARANTEED!

## "APC" SCREWDRIVER ADJUSTMENT TYPE

Stock No.	Max. Mmf.	Min. Mmf.	Each	10 Lts. Each	Stock No.	Max. Mmf.	Min. Mmf.	Each	10 Lts. Each
18A85	203	7	\$0.99	\$0.90	18B223	26	3	\$0.45	\$0.40
17B267	100	8	.69	.62	18A82	17	2	.39	.35
17B382	75	6	.55	.49	18A84	7	2	.29	.26

## "APC" WITH STANDARD 1/4" DIAMETER SHAFT

18B681	140	7	\$1.39	\$1.19	18B680	75	8	\$0.99	\$0.90
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## JOHNSON SUB-MIDGET JUST RIGHT FOR HAM & CITIZENS BAND EQUIPMENT



SPECIAL  
**69c**

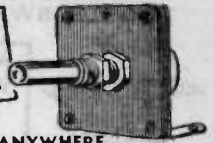
REG. NET VALUE \$1.18

**SMALLEST VARIABLE EVER BUILT** Range 2.3-14.2 mmfd. Size only 5/8" x 3/4" x 1 1/2" deep. 3/8" dia. slotted shaft extends 1/4" from 3/8" bushing, mounts in 1/4" hole. Beryllium copper rotor contact. Plate spacing .017, rating 750 V. RMS. Type 160-107-14. No. 18B424. 10 Lots, **69c** Each. Spec., Each. **63c**

## SUB-MINIATURE 365 MMFD. VARIABLE FOR TRANSISTOR AND OTHER TINY EQUIPMENT

Ideal for transistor radios and crystal sets as well as use in scores of miniature experimental projects. Measures only 1 1/2" square x 3/4" deep. Standard 1/4" shaft is 1/2" long. Mounts in 1/8" hole in panels up to 1/4" thick. No. 18A598. 10 Lots, **39c** Special Each **45c** Each. **39c**

**39c**  
Each 10 Lots



LOWEST COST ANYWHERE

## SEMI-MIDGET SINGLE GANG 365 MMF VARIABLE

Top quality, all brass and aluminum construction with smooth action ball bearings. 1/4" x 1 1/8" long shaft. Convenient panel or base mount. Size 1 3/8" W x 1 1/8" H x 1 1/8" D. Imported to save you money. No. 17C280. 10 Lots, **71c** Special, Ea. **79c** Each. **71c**

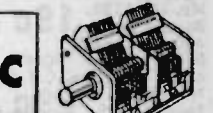
**79c**



## SEMI-MIDGET 2-GANG BROADCAST VARIABLES

Factory fresh—beautifully made with ball-bearing rotor and built-in trimmers. Frame size 1 1/8" x 1 1/8" x 2 1/8" long. 1/4" brass shaft extends 7/8". None better available! Will tune broadcast band in standard TRF or superhet circuits. Fine for all experimental uses, too.

**99c**



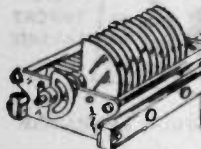
Cut Plate Type. For superhet with 456 KC IF. 365 mmfd section and 129 mmfd osc. section.

No. 18B484. 10 Lots, **90c** Each. **99c** Each. **90c**

Dual 365 Mmf. Fine for tuned radio frequency circuits, crystal and transistor radios, or for experimental circuits requiring high capacities.

No. 18B483. 10 Lots, **90c** Each. **99c** Each. **90c**

## 206 MMF-15 MMF TRANSMITTING VARIABLE

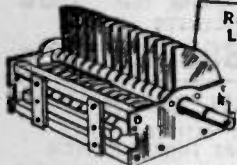


A FRACTION OF ORIGINAL COST  
**\$1.69**

### DEPENDABLE CARDWELL

Type MO-165-BE. Has 25 aluminum plates .050" air gap. Optional shaft lock. Mycalex insulation, 1/4" dia. x 1 1/2" long shaft. 4 1/4" L. x 3 1/4" W. x 2 1/4" H. Less than 1/3 manufacturers cost. No. 17B316. Net Each. **\$1.69**

## 114 MMF-20 MMF FOR 20 THRU 80 METER HAM TRANSMITTERS, ANTENNA TUNING, ETC.



REG. NET AT LEAST \$5.00.  
**\$1.39**

.075" AIR GAP

Terrific savings on a really top quality variable. Sturdy aluminum frame, 27 heavy brass plates, low loss ceramic insulation, ball thrust bearing, positive wiping rotor contact, standard 1/4" shaft. Size 3 1/4" W, 4" L, 1 1/2" H. Shpg. wt. 1 lb. No. 18B112. Special Each. **\$1.39**

## VELVET SMOOTH VERNIER DIALS



**\$1.45**

COMPARE WITH DIALS SELLING FOR OVER \$4.00

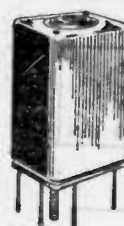
Planetary drive, surface mounting type for 1/4" shaft. Ratio, approx. 8 to 1. Metal dial has professional, brushed "German-silver" finish with accurate, easy-to-read, deep-etched, blackfilled markings. Reads 0 to 100 in 180°, counter clockwise. All internal parts of brass and spring bronze. Knob and housing molded black phenolic. A truly fine quality imported product. Fully guaranteed.

No. 17C269. 1 1/2" (36 MM) diameter. Special Each **\$1.45** 4 Lots **\$1.29** Each. **\$1.29**

No. 17C274. 2" (50MM) diameter. Special Each **\$1.59** 4 Lots **\$1.39** Each. **\$1.39**

No. 17C272. 3" (70 MM) diameter with vernier to read 1/10 scale division. Each **\$2.39** 4 Lots, Each. **\$2.19**

## SLUG-TUNED CERAMIC COIL FORM WITH ALUMINUM SHIELD



JUST RIGHT FOR TODAY'S TINY TRANSMITTERS & RECEIVERS

**36c**

OVER A \$1.00 VALUE

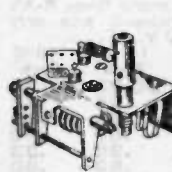
Ceramic form 1/2" dia., 1 1/8" long. Comes already wound with two close-coupled coils of 24 and 51 turns. Easily dismantled for rewinding to suit. Has six insulated terminals in bottom and two 6-32 threaded mounting studs. Slug adjusts from top. 1 1/8" x 1 1/8" H. shield removable even after wiring into circuit. No. 18B120. 10 Lots, **29c** Spec. Ea. **36c** Each. **29c**

## TUNING SLUGS



25 Asst. Various diameter and lengths. Usually cost up to 15c each. No. 22B89. Per Asst. **59c**

## VHF TRANSMITTER PLATE COIL ASSEMBLY FOR 2 TO 6 AND 10 METERS



**59c**

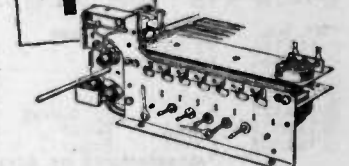
Limitless building possibilities for novices, hams experimenters, etc.

Consists of a heavy silver-plated air-wound coil with "accordion" tuning, variable link coupling and several useful small capacitors, RF chokes, insulators, etc. all mounted in a brass silver-plated frame, 2x3x1 1/2" deep. Coil turns easily removed.

No. 18B374. With 9 1/2 Turn 3/4" dia. coil (10 Meters).  
No. 18B242. With 5 1/2 Turn 3/4" dia. coil (2 to 6 Meters).  
Choice, Special Each. **59c**

## MOTOROLA PUSH-BUTTON TUNING UNIT AUTOMATICALLY TUNES STANDARD BROADCAST BAND

**\$1.39**



Takes the place of variable condenser and tuning controls. Consists of permeability tuned antenna, RF amplifier and oscillator sections with manual and automatic push-button (7) controls. Compact size 7 1/4" W x 3 1/2" D x 3 1/2" H. Diagrams for building into receiver included. Shpg. wt. 2 lbs. 22B71. Special, Net Ea. **\$1.39**

No. 20A346. Set of Knobs **39c**

## PROFESSIONAL STYLE EQUIPMENT KNOBS

Beautifully made, will really dress up equipment. Skirted, 1 1/2" D. with white filled 0 to 10 marking, and brass insert. Specify Black or Grey. No. 17A672. 10 Lots, **35c** Each. **39c** Each. **35c**

**39c**



BIG IMPORT SAVINGS

## STURDY CAST ALUMINUM SPINNER KNOB



FOR 1/4" SHAFT  
\$1.50 LIST VALUE  
**29c**

Replaces conventional tuning knobs on receivers, transmitters, etc. Diameter 2 1/8", 3/4" thick. Black wrinkle finished. With Allen set screw.

No. 18B325. 10 Lots, **25c** Special, Ea. **29c** Each. **25c**

## 30 MMF-3MMF MIDGET TRIMMER CONDENSER



MFG. LIST 50c  
**24c**

Top quality with low loss ceramic base.

No. 18A365. 10 Lots, **21c** Each. **24c** Each. **21c**

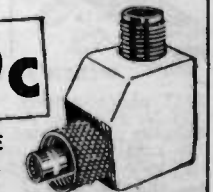
## SAVE! RIGHT ANGLE GEAR DRIVE

Small high quality 1:1 ratio 90° gear drive that can be adapted for tuning or controlling today's compact equipment. Has splined shaft couplers to fit "Command" equipment. Easily converted to 1/4" shaft fittings by pressing short length of tubing onto spline. Instructions included. Housing only 1 x 1 x 5/8" thick.

No. 18C324. 10 Lots, **65c** Spec. Ea. **69c** Each. **65c**

**69c**

COMPARE AT OVER \$4.00!





# YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS SWITCHES



ALL ARE  
BRAND NEW!  
FULLY GUARANTEED!

## CUTLER-HAMMER HEAVY DUTY TOGGLE SWITCHES



AS LOW AS  
**19c**  
EACH

Made to government specs. at a cost many times our price. Highly recommended for labs, experimenters, hobbyists, etc. Ruggedly built with flush plates for screw mtg. Rated 5 amps. @ 125 V.; 35 amps. @ 24 V. Size 1 1/2 x 3/4 x 1 1/2" deep. Mtg. plate 2 1/2 x 3/4". SPST. Normally "Off", Momentary "On" with Spring Return. CH No. 8211K5.  
No. 18A1138. 10 Lots **19c** Each **16c**  
Special Each **15c**  
100 Lots, Each **15c**  
SPDT. Center "Off", Positive "On" either direction. CH No. 8200K5.  
No. 18A29. 10 Lots **29c** Each **26c**  
Special Each **23c**  
100 Lots, Each **23c**

## ALWAYS NEEDED TOGGLE SWITCHES BARGAIN PRICED!



① CARLING SPST, BAT HANDLE  
Bakelite enclosed U/L approved switch with solder lug terminals. Rated 3 amps. @ 250 V.; 6 amps. @ 125 V. 1/2" dia. x 1 1/2" long shank.  
No. 18B290. 10 Lots, **39c** Each **33c**  
Net Each **39c** Each **33c**  
100 Lots, Each **30c**

② CARLING SPDT BAT HANDLE  
Bakelite enclosed UL approved switch with solder lugs. Rated 3 amps @ 125 V. 1/2" dia. x 1 1/2" long shank. Mfg. List 95c.  
No. 18B673. Net Each **49c**  
10 Lots, Ea. **44c** 100 Lots, Ea. **38c**

③ CARLING SPST TOGGLE SWITCH WITH WIRE LEADS  
Compact, bakelite enclosed with two 2" wire leads. UL approved. 6 amp @ 125 volts. 1/2" dia. x 1/4" long mtg. shank. Mfg. list 85c.  
No. 18A572. 10 Lots, **39c** Each **33c**  
Net Each **39c** Each **33c**  
100 Lots, Each **30c**

④ C-H HEAVY DUTY 4PDT TOGGLE SWITCH  
Positive "on" one direction, momentary "on" spring return other direction. Compact molded bakelite case, 1 1/8" x 1 1/8" x 1 1/8". Bat handle. Screw terminals. 20 amp @ 28 V. DC; 10 amp @ 115 V. AC.  
No. 18A521. 10 Lots, **79c** Each **69c**  
Net Each **79c** Each **69c**  
100 Lots, Each **65c**

⑤ CARLING, 2 CIRCUIT NORMALLY OPEN OR CLOSED  
Standard SPST or SPDT positive acting. Bakelite enclosed, 4 lugs, bat handle. UL approved. 3 amps @ 125 V. 1/2" dia. x 1 1/2" L. shank. Mfg. List \$1.35.  
No. 18A572. 10 Lots, **39c** Each **33c**  
Net Each **39c** Each **33c**  
100 Lots, Each **30c**

⑥ H&H, DPST  
Laminated bakelite. UL approved. 3 amps @ 125 V. 1/2" dia. x 3/4" L. shank. Reg. 84c each.  
No. 18A604. 10 Lots, **44c** Each **44c**  
Net Each **49c** Each **44c**  
100 Lots, Each **39c**

⑦ CUTLER-HAMMER EXTRA HEAVY DUTY  
Unusual fine quality meeting highest commercial and government (ST42) specifications. Compact bakelite enclosed case only 1 1/8" x 5/8" x 5/8". 3 heavy duty solder lugs for use as SPDT or SPST. Rated 15 amp @ 125 V. 1/2" dia. x 1/2" long mounting shank. Popular bat handle.  
No. 18A518. 10 Lots, **49c** Each **49c**  
100 Lots, Each **44c**

⑧ TOGGLE SWITCH PLATES.  
Nickel plated steel with on-off markings. Use with standard 1/2" dia. mounting shafts.  
12A785. **3c** 10 For. **20c**

⑨ DPDT TOGGLE SWITCH  
BIG IMPORT SAVINGS  
**36c**  
Each, 10 Lots

⑩ POPULAR BAT HANDLE  
Bakelite encased. Rated 3 amp @ 250 V.; 6 amps @ 125 V. 1/2" dia. x 3/8" L. shank.  
No. 17B439. Each **45c** 10 Lots, **36c** Each **36c**  
DPDT CENTER "OFF"  
No. 17C249. 10 Lots, **68c** Each **55c**  
Net Each **68c** Each **55c**

## BIG SAVINGS! MICRO SNAP ACTION SWITCHES



Genuine UL approved Micro Switches that regularly sell at many times B-A's low, low prices. Positive snap-action type. Bakelite enclosed, size only 1 1/8" x 2 1/2" x 1 1/8". Rated 10 A. @ 125 V. AC; 5 A. @ 250 V. AC.

Stk. No.	Mfg. No.	Type	Action	Each	10 @	100 @
① 18A168	YZ-RE8	Pin	SPST-NO	\$0.29	\$0.25	\$0.24
② 18A994	BZ-7FTC	Pin	SPDT	.39	.35	.33
③ 18C650	*	Leaf	SPST-NC	.45	.40	.35
④ 18A404	MLB321	Leaf	SPDT	.75	.69	.63
⑤ 18A177	R-RS	1/2" Spring	SPST-NC	.40	.36	.33
⑥ 18A571	G-RL2	Roller	SPST-NO	1.10	.99	.90
⑦ 18A403	6AS13	Roller	DPDT	1.85	1.75	1.65

① MICRO SNAP-ACTION MINIATURE SWITCH  
**39c**  
REG NET \$1.10  
Ultra small V-3 type. Handles large electrical loads and resists vibration. SPDT, 5 amps @ 125 or 250 V. 1 1/8" x 1/8" x 1 1/8". Insulated plunger travels .047" O.T. .031".  
No. 18C256. 10 Lots, **49c** Each **39c**  
Special Ea. **39c**

② TINY FLAT SNAP-ACTION SWITCH  
**29c**  
Each, 10 Lots  
SPST normally open, rated 15 A. @ 125 V. AC; 7 1/2 A. @ 250 V. AC. Bakelite pin actuated. Flat style bakelite case measures only 1/2" thick x 3/8" wide x 1 1/8" long.  
No. 18A524. 10 Lots, **36c** Each **29c**  
Special Each **29c**

③ MINIATURE MICRO ROLLER LEAF SWITCH  
**69c**  
REG. NET \$1.95  
SPST normally open. Bakelite case 3/8 x 3/8 x 1 1/8" long. Screw terminals. Removable mounting bracket. Rated 10 amps @ 125 volts. Micro V3-23.  
No. 18A523. 10 Lots, **69c** Each **59c**  
Special Each **59c**

④ PUSH-BAR MOMENTARY SNAP ACTION SWITCH  
**39c**  
DPST normally open. Bar actuator with overall rubber boot. Use indoors or out. Fine for paging systems, intercoms, telephone signaling, etc. 2 7/8 x 5/8 x 1/2" H above mtg. surface.  
No. 18A163. 10 Lots, **39c** Each **35c**  
Special Each **35c**

⑤ WEATHERPROOF  
**39c**  
DPST normally open. Bar actuator with overall rubber boot. Use indoors or out. Fine for paging systems, intercoms, telephone signaling, etc. 2 7/8 x 5/8 x 1/2" H above mtg. surface.  
No. 18A163. 10 Lots, **39c** Each **35c**  
Special Each **35c**

## MORE TERRIFIC SWITCH BUYS

① SPDT CENTER "OFF" MINIATURE TOGGLE SWITCH  
Extremely small, requires only 3/8" behind panel. 1/2" dia. x 1/8" long mtg. shank fits 1/8" panels. Brown plastic handle 1 1/8" long. Rated 3 amps @ 125 V.  
No. 18A72. 10 Lots, **19c** Each **22c** Each **19c**

② CARLING HEAVY-DUTY DPST TOGGLE  
UL approved 15 amp @ 125 V. switch with bat handle, screw terminals. Bakelite enclosed case. 1/2" dia. x 3/8" long mtg. shank.  
No. 18C660. 10 Lots, **69c** Each **59c**  
Special Ea. **59c**

③ H & H MOMENTARY PUSH BUTTON SWITCH  
DPST, normally "on" push for "off". Bakelite enclosed with solder lugs. UL approved. Rated 6 amp @ 125 V. 1/2" dia. x 3/8" long mtg. shank. Metal plunger extends additional 1/2".  
No. 18B327. 10 Lots, **45c** Each **39c**  
Special Ea. **39c**

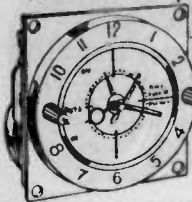
④ H & H DPDT MOMENTARY PUSH BUTTON SWITCH  
Versatile, can be used for normally "on" or normally "off" to control one or two separate circuits. High quality laminated bakelite construction with nickel plated metal parts. 1/2" dia. x 3/8" long mtg. shank. Plunger button extends additional 1/2", travels 3/8". UL approved. 3 amps @ 125 V. Worth over double our price.  
No. 18A178. 10 Lots, **69c** Each **55c**  
Special Ea. **69c**

⑤ MODERN ROCKER TYPE OFF-ON SWITCH  
LATEST DESIGN AS USED ON PROFESSIONAL HI-FI & INTERCOM GEAR  
Most convenient operating switch made. Neat ivory plastic arm is pivoted so that only slight thumb pressure is needed for control. Shows at a glance whether "off" or "on". Molded plastic encased, with mounting flanges. Size 1 1/8" x 5/8" x 5/8". Rated 3 amps @ 125 V. Import value.  
No. 17A732. Special Each **69c**

**CLOCK TIMER MECHANISM**

MFG. LIST \$8.00

**\$4.95**



FAMOUS MAKE!

Front-Operated Controls for Easy Mounting

Synchronous clock movement keeps perfect time; has brass bezel, soft white dial with black markings, hour and minute hands, black set hand and red sweep second hand. All controls operate from front. Can be set for automatic "on" up to 12 hours later. Also has manual "on" or "off" as desired. Switch rating 1875 watts, 15 amperes. Size approx. 3 1/4" dia., 2" behind panel. Operates on 115 V. 60 cy., AC only. Shpg. wt. 1 1/2 lb. No. 37B212. Special Net Each... **\$4.95**

**CLOCK TIMER WITH "SLEEP" SWITCH**

Like above with added feature of up to 60 minutes "on" operation for automatically shutting off music after retiring. Will then operate automatically to turn "on" up to 12 hours later. No. 37B213. Special Each... **\$6.45**

**TELECHRON CLOCK-TIMER SWITCH**

Automatic on and off for fans, air conditioners, TV appliances, radio, lights, alarms, etc.

**\$3.79**



AT LEAST A \$10.00 VALUE

Unusually heavy duty DPST double break contacts rated 230 V. AC 25 amperes. GE synchronous clock movement rated 115 V. AC 60 cy. Allows "on" periods from only a few minutes up to 8 hours. "On" period can be started immediately or pre-set to start automatically at any time up to 12 hours later. After completion of one full cycle, operation will not repeat automatically until reset.

Four easy-to-use adjusting knobs, accessible from front, control all operations including setting to correct time of day. Can be panel or recess mounted. Size 4 1/8" long, 2 3/4" wide. Approx. 2" depth behind panel. Shpg. wt. 1 1/2 lbs. No. 37A418. Special Each... **\$3.79**  
5 Lots. Each... **\$3.47**

**DAVEN NOISE-FREE SINGLE POLE 17 POINT**

**ROTARY SWITCH**



FAMOUS DAVEN SUPER QUALITY THROUGHOUT **59c**

Each, 10 Lots

Continuous rotating, no stops, detents or pigtails. Insulated shaft and bushing. Pure silver to silver contacts with double laminated spring loaded wiper. Adjacent contacts are shorted as switch is rotated. Decks easily ganged for multiple pole requirements. Low loss phenolic with turret solder terminals. Deck dia. 2 1/8". Depth behind panel 3/8". 1/4" dia. shaft, 1/8" L. 3/8" dia. x 1/2" L. mtg. bushing. No. 18C503. 10 Lots **59c**  
Special Each **69c** Each... **59c**

**LEVER ACTION SWITCH**

4PDT telephone type made to high Western Electric standards. Black enameled dress plate, 2 1/4 x 1 1/2". Behind panel 3 1/8". Worth \$3.50. See illustration at right. No. 18B491. 10 @ **1.39** Each... **1.19** Each... **1.19**

**YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS**

**SWITCHES**



ALL ARE BRAND NEW! FULLY GUARANTEED!

**4 PDT LEVER SWITCH**



**99c**

BIG IMPORT SAVING!

Compare with Switches Selling for Over \$3.00

Telephone type with roller cam actuator. Smooth, quiet positive action. Small frame, only 1 1/8 x 2 1/8 x 2 1/8" behind panel. With black lever handle. 17C682. 10 Lots **99c**  
Net Each... **99c** Each... **90c**

**HAND-OPERATED REMOTE CONTROL SWITCH**

WITH 20 FT. CABLE

HUNDREDS OF INTERESTING APPLICATIONS

Excellent for remote control applications. 1 1/8" dia. x 2 1/4" sturdy bakelite encased switch is specially designed for hand-held operation, or may be panel mounted if desired. Unique switching arrangement permits SPST operation of two circuits with switch arm common to both circuits. Contacts are normally open. Complete with 20 ft. 2-conductor plastic covered cable. Has cable clamp and screw terminals. Terrific value!

No. 18B410. Complete... **69c** 10 Lots, **55c** Each...



**69c** With 20-Ft. Cable

**TOP QUALITY FOOT CONTROL SWITCH**

Handy for remote operation of Tape Recorders, Ham Gear, Photographic Devices, etc.

SPST normally open, snap action. Rated 6 amps 115 V. AC. Especially suited for relay control of communications equipment, paging, tape recorders, photographic darkroom devices, industrial and shop machines. Size 3 3/8" dia., 1" high. Protective molded rubber enclosure keeps mechanism clean. High quality type SJ 8 ft. UL approved rubber cord has standard Cinch-Jones P302CCT plug attached. No. 18A162. Special Ea... **\$1.95**

SPECIAL PURCHASE **\$1.95**

WOULD COST MUCH MORE TO MANUFACTURE



**CRL LEVER SWITCHES**



**60c** Each 10 Lots

\$2.10 Mfg. List

AMAZING SAVING

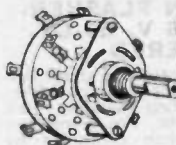
2 Pole 4 Position, positive action, shorting.

No. 18A543. Special Each **69c** 10 Lots, **60c** Each...

2 Pole 3 Position (two positive, one spring return), non-shorting. CRL1467.

No. 18A108. Special Each **69c** 10 Lots, **60c** Each...

**3 POLE 3 POS. CERAMIC SELECTOR SWITCH**

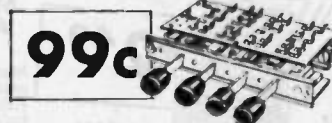


**55c** Each 10 Lots

REG. NET AT LEAST \$1.90

Non-shorting type. Wide 60 degree indexing and ceramic insulation minimizes RF losses and retards moisture absorption. 2" dia. x 1" depth. Mounting shank size 3/8" dia. x 1/2" long. Standard 1/4" dia. shaft extends 1/2". No. 18A531. 10 Lots, **55c**  
Special Each... **69c** Each... **55c**

**4-GANG PUSH-BUTTON SWITCH**

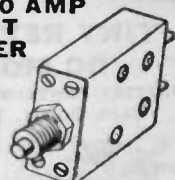


**99c**

As used in hi-fi, intercoms and other audio equipment. 4 SPDT and 12 SPST circuits, all isolated. Each push button releases the other buttons when pressed, and actuates an SPDT plus 3 SPST circuits, all circuits closed when button is in. Size 4 1/8" L. x 1 5/8" H. x 2 3/8" D. With knobs. No. 18B490. 10 Lots, **99c**  
Special Ea... **99c** Each... **90c**

**115 V. AC 20 AMP CIRCUIT BREAKER**

**99c**



Serves as extra safe master fuse for ham gear, hi-fi, public address, etc., any application where overloading can cause serious damage. Takes place of individual fuses. Convenient push-button reset. Neat panel mounting in 3/8" hole. Size 1 3/8 x 1 1/8 x 1 7/8" D. Wt. 2 oz. No. 18A311. Special Each... **99c**

**HIGH CURRENT MOMENTARY SWITCH**

Hetherington SPST snap-action. 35 amps cont.; 50 amps intermittent @ 28 V. DC and 120 V. AC. Metal enclosed, screw terminals. Shank 1 1/8" dia. x 1/2" L. 1 1/2" D. behind panel. Type A1940. Reg. \$8.50 each.



No. 18A122. 10 Lots, **69c**  
Special Each **85c** Each...

**SLIDE SWITCHES**



**8c** SPST Each, 10 Lots

Small with black bakelite slide handle. Solder lugs. 1 amp @ 125 V. AC. Stock 10 @ 100 @ No. Action Each Each Each 18A534 SPST 10c 8c 6c 17B390 SPDT 12c 9c 8c 17B403 DPST 15c 12c 10c 18B802 DPDT 17c 14c 12c

**3PDT ROTARY SWITCH**



**44c**

REG. NET OVER \$1.00

Universal style, fine for single and double pole as well as 3 pole applications. Size 1 3/8 x 1 1/8 x 1 1/8" with standard 1/4" shaft extending 1 1/8". Reg. net value over \$1.00 No. 18A829. 10 Lots, **39c**  
Special Ea... **44c** Each... **39c**

**MOMENTARY SPRING RETURN SWITCH**

FINE AS A DOOR SWITCH **39c**



U/L approved. 3A @ 125 V. SPST normally closed circuit. Turns on light or other signal when door is opened. Fully insulated. Convenient snap-in mtg. in 3/8" hole. 1 3/8" D. No. 18C402. 10 Lots, **39c**  
Special Ea... **39c** Each... **35c**

**MICRO-MINIATURE MERCURY SWITCH**



\$1.30 VALUE

**69c**

Tiny SPST normally "on" or "off". Slight tip sends mercury to other end for silent operation. 1/2 A. 115 V., 1.5 A. 30 V. AC. No. 17A994. 10 @ **59c**  
Special Ea... **69c** Each...

**HANDY FOOT SWITCH**



**69c**

Cost Many Times Our Price

Momentary push type normally open with 44" 3 conductor cable. When button is depressed all 3 leads are electrically connected. Ruggedly constructed for surface mtg. on floor. No. 18B50. 10 Lots, **61c**  
Net Each... **69c** Each...

**DPDT MINIATURE KNIFE SWITCH**



**39c**

SPECIAL VALUE IMPORT

Black bakelite handle and body. Size 1 1/2 x 2 3/8". Low resistance contacts. Screw terms. Fine for antenna changeover. No. 17A675. 3 For **\$1.00**  
Special Ea... **39c**

**PUSH-BUTTON SWITCH**

**39c**



Highest quality, normally open, for buzzers, bells, signals, etc. Deep pearl button with nickel plated ring. Flush mounts. Snaps in 1/8" dia. hole. No. 18B266. 10 @ **35c**  
Each... **39c** Each...



# YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

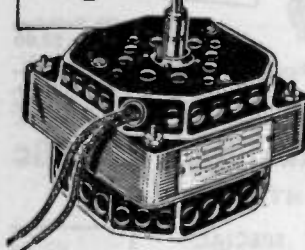
## BLOWERS & MOTORS



ALL ARE BRAND NEW! FULLY GUARANTEED!

### GIANT SAVINGS GENERAL INDUSTRIES 4-POLE MOTOR

**\$4.96** MFG. LIST \$15.00



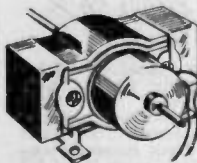
#### SMOOTH, QUIET, HEAVY-DUTY

Four-pole construction, shaded pole induction type, for 115 V. 60 cy. 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. Shaft extends 1 1/2" one side, 1 5/8" other. Turns counter clock-wise. Oilite bearings. Size 3 3/8" square, 3" below mtg. Shpg. wt. 3 1/2 lbs. Mfg. list \$15.00.

No. 18B299. **\$4.96** Special

### TINY REVERSIBLE DC MOTOR

BATTERY-POWERED FOR MODEL CARS, BOATS, TOYS, ETC.



ONLY **99c** BIG \$\$\$ SAVINGS

Unbelievably small and powerful. Operates from just ordinary flashlight batteries. Very nicely import made, has brass bearings, convenient mounting base and extended steel shaft for easy coupling to model. Reverses simply by changing battery polarity. Only 1 3/8" x 1" x 1" high. Operates from 1 1/2 x 4 1/2 volts (1 to 3 flashlight batteries). Speed 3000 to 3500 RPM. Wt. 2 oz.

No. 17B589. **99c** 5 Lots, **90c** Spec., Net Ea. Each

### BONDINE 1/25 H.P. 115 V. MOTOR

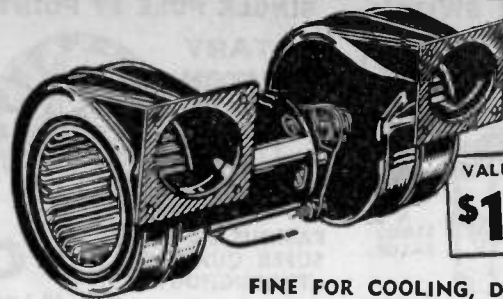
**\$3.98**

VERY HIGH TORQUE

Series wound, 3300 RPM. Intermit-tent duty, AC or DC, 1.3 amps. Speed and power can be controlled by adding a series rheostat. Shaft 1/4" x 3/8" dia., 9 tooth gear at other end. 2 1/8" L., 4" long.

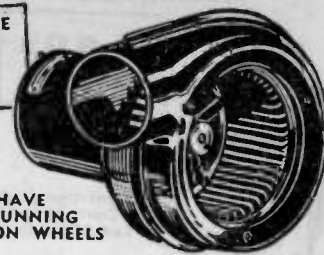
No. 18A441. Wt. 3 lbs. **\$3.98** Special Each

## WHOPPING SCOOP VALUES! 115 V. AC BLOWERS



\$13.20 VALUE **\$9.95**

VALUE \$20.00 **\$13.77**



ALL HAVE QUIET-RUNNING TORRINGTON WHEELS

FINE FOR COOLING, DRYING, VENTILATING, EXHAUSTING, ETC.

High quality, dependable, efficient, quiet-operating blow-ers. 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 furnaces, 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 cy. AC.

#### 200 CFM TWIN-BLOWER

Universal Electric motor rated 2700 RPM, 1 amp. 3 1/8" dia. wheels, 3 7/8" dia. intakes, 2" outlets with 3" sq. flush mounting flanges. Blower housing dia. 5 3/8". Overall width entire unit 9 1/2". 11" wire leads. Shpg. wt. 7 1/2 lbs.

4A196. Special, Each... **\$13.77**

#### 135 CFM TWIN-BLOWER

Fasco motor rated .67 amp. 3 1/8" dia. wheels, 2 3/8" dia. intakes, 2 1/8" dia. outlets with flush mounting flanges. Blower housing dia. 5 3/4". Overall width entire unit 10 1/8". 12" wire leads. Shpg. wt. 6 lbs. \$17.00 value.

4A199. Special Each... **\$10.95**

#### 100 CFM BLOWER

Motor rated 3000 RPM, 1.05 amp. 3 3/4" dia. wheel, 3 1/4" dia. intake, 2 1/8" dia. outlet with 4 3/8" mounting flange (not illus.).

Blower housing height 5 1/8". Overall width entire unit 6 3/4". 11" wire leads. Shpg. wt. 4 1/4 lbs. **\$9.95** No. 4A201. Spec. Each



**\$1.69**

BARGAIN SPECIAL

### HEAVY-DUTY 1750 RPM MOTOR 115 V. 60 CY. SHADED POLE INDUCTION TYPE

Powerful quiet-operating double shaft motor for driving cooling fans, models, toys, gadgets, etc. Non-radio interfering. Has larger 1 1/2" dia. x 1 3/8" long armature, enclosed bearings with felt oil retainers. Shaft lengths 1" and 2 1/8" dia. .216". Frame size 2 3/8" x 1 1/8" x 3" high. Would cost several times our price to manufacture.

No. 18B309. **\$1.69** 5 Lots **\$1.60** Spec. Ea. Each



**59c**

AT A FRACTION OF FACTORY COST

### MIDGET REVERSIBLE DC MOTOR

HOBBYISTS, TOYMAKERS LOOK

Battery-powered for model cars, boats, toys, etc. Highest quality permanent magnet type American made with bronze oilite gears. 3 to 12 V. DC operation. 1 1/8" dia., 1 1/4" L. Wt. 2 oz.

No. 18A161. **59c** 10 Lots **49c** Special Each Each



**\$2.49**

REAL BARGAIN

### MOTOR DRIVEN FLASHER-ACTUATOR 115 V. 60 CY. AC POWERED

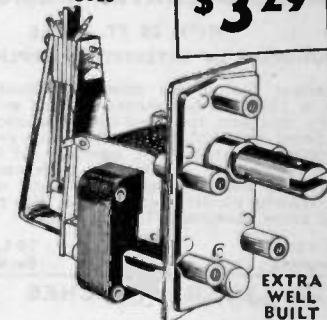
Made originally for continuous duty sign animation. Has dozens of uses for advertising displays, agitating liquids, film tanks, flashing lights, etc. Has crank arm and cam operated switch controlled by high quality 10 RPM synchronous motor. Motor is removable for other uses, too. Switch cycles 3 sec. on, 3 sec. off, controls power to attached standard AC receptacle. With 6 ft. AC cord and plug. Frame size 2 1/2 x 6 7/8 x 3/8". Shpg. Wt. 2 lb.

No. 18A845. **\$2.49** Special Each

### SPECIAL PURCHASE 115 V. 60 CY SLOW SPEED GEAR MOTOR

HAS MANY EXPERIMENTAL USES

**\$3.29**



EXTRA WELL BUILT

Continuous duty shaded pole induction motor, directly coupled to a fully enclosed gear train having 1/4" dia. output shaft revolving at 22.8 RPM. Shaft has removable slotted coupler. Develops considerable torque and will activate displays, barbecue spits, all sorts of models and devices. Has removable 3P N.O. switch that closes automatically by end thrust of motor armature when unit is installed shaft up. Armature gear then also disengages allowing shaft to turn freely, with power off. Size 3 3/4 x 2 3/4 x 3 1/2" deep overall. Wt. 2 lbs.

No. 18C405. **\$3.29** Special Each

### B-A EXCLUSIVE! 115 VOLT AC-DC MOTOR WITH FOOT CONTROL

- POWERFUL 1/15 HP AC-DC MOTOR.
- VARIABLE-SPEED FOOT CONTROL.
- CONNECTING CORDS, Plug and Receptacle.

AT LEAST A \$12.95 VALUE!

ALL FOR ONLY

**\$6.97** WHILE THEY LAST

LIMITED QUANTITY



Wonderful for powering motor driven models, toys, hobby tools, etc., to convert foot treadle sewing machines or just to gadget around with.

THE MOTOR. Powerful, series-wound brush type. Designed for sewing machine service, therefore ideal for other rugged duty jobs. Rotates counter clockwise. With full 115 V. AC 25 to 60 cycles, or 115 V. DC applied direct to motor, no-load speed is approximately 10,000 RPM. With foot control rheostat, speed can be varied smoothly from slow to fast. Exact degree of variation depends on motor load. Motor shaft is .250 dia., extends 1 1/8" from housing. Pulley supplied is for round or small V-type belts; attaches with set screw. Overall size: 2 1/4" high, 2 5/8" wide, 4 3/8" long exclusive of shaft. Mounts with two screws threaded into bottom of motor case, glossy black enamel finish, with attached 23" lead. Name plate rating 1.5 ampere.

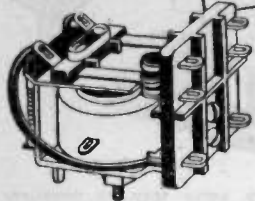
FOOT CONTROL. A top quality, wire-wound resistance unit built for proper speed control of the above motor. Non-wearing slider arm gives control from full resistance to zero. Heavy steel housing has streamlined, modern shape, glossy black enamel finish, non-marring rubber feet. Terminals and other electrical parts fully enclosed for safety. Size 3 3/8" W, 5 5/8" L, 2 1/2" H. Supplied with 10' AC cord and plug and special plug-in junction block to accommodate motor and light or other device. Light outlet is independent of foot control.

No. 33C76. COMBINATION DEAL—Motor, Pulley, 6" round belt, Foot Control and Cord Assembly. Shpg. wt. 4 lbs. While They Last... **\$6.97**

# RELAYS AT SMASHING BARGAIN PRICES!

115 V. 60 CY  
AC MEDIUM  
POWER  
RELAYS

**\$2.95**



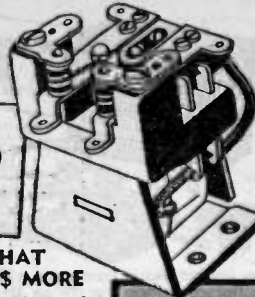
TOP AMERICAN MAKE We Know You will be more than pleased!

**MOST OFTEN NEEDED OF ALL RELAYS!**

115 V. 60 CY. AC DPDT  
10 AMP POWER RELAY

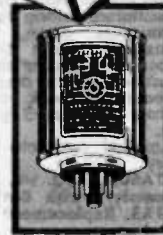
WORTH  
\$10.00  
REGULARLY

**\$2.95**



IN SEALED OCTAL BASE PLUG-IN THAT WOULD NORMALLY COST MANY \$ \$ \$ MORE

Best buy we've seen! Heavy duty positive acting, of highest quality throughout. Has large 1/4" diameter silver contacts, continuous duty coil, molded bakelite barrier supporting contacts and terminals. Relay frame size, only 1 5/8 x 1 1/4 x 1 7/8" H. overall with convenient 4 hole mtg. base. Comes completely enclosed in dust tight, waterproof plug-in assembly with standard octal base. Can size 2 3/8" dia. x 3" high. Extremely easy to remove from can if open mounting is desired. Allied Control No. BOHX-1. No. 18A588. Special Each \$2.95 10 Lots, Each \$2.79 100 Lots, Each \$2.65



YOU SAVE \$\$\$ ON THESE SPECIAL  
**BARGAINS**

**RELAYS & TIMERS**



ALL ARE BRAND NEW! FULLY GUARANTEED!

**GUARDIAN 115 V. AC 25 AMP POWER RELAY**

**\$3.95**

BIG SAVINGS



SPST, normally open. Dual 1/2" silver alloy contacts rated at 25 amps. Ruggedly built for heavier duty applications. Size 3x1 3/4x1 7/8" high. No. 18B116 Special Each \$3.95

**115 VOLT AC CERAMIC INSULATED CHANGE-OVER RELAY**

Reg. Net Value at Least \$8.00  
**\$4.95**

QUANTITY LIMITED ORDER NOW

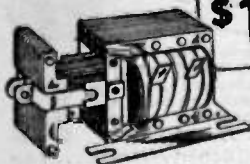
Has DPDT 1/2" heavy duty silver contacts for RF or high voltage switching plus SPST normally open 1/2" auxiliary contacts, all rated 10 amps. Coil resistance 280 ohms, for 90-115 V., 50-60 cy. AC continuous duty operation. Unbeatable for antenna change over or power control. 2 3/4" L, 1 5/8" W, 1 1/2" H. Made by Advance. No. 18C320. Special Each \$4.95



## SAVE \$\$\$ ON POWERFUL 110 VOLT AC SOLENOIDS

BIG SAVING!

**\$1.95**

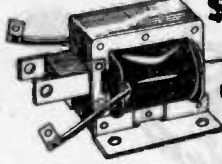


REGULAR NET VALUE ALMOST \$4.00

Moving pole piece exerts pull of 60 ozs. and a stroke length of 5/8". Has tremendous holding power. Continuous duty. Size 2 1/4" L. x 1 3/8" W. x 1 7/8" H. Wt. 8 ozs. Made by Sorenz. 18B669. 10 Lots \$1.79 Spec. Ea. \$1.95

BIG SAVING

**\$1.95**

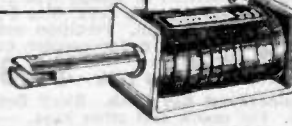


REGULAR NET VALUE OVER \$5.00

Extra powerful, continuous duty type. Exerts 65 oz. pull at 1/8" stroke. Max. stroke 1 1/2". Size 2" L. x 1 3/4" W. x 2" H. Wt. 8 ozs. Manufactured by General Electric. 18A103. 10 Lots \$1.79 Spec. Ea. \$1.95

**99c**

Reg. Net Value at Least \$2.50



Ideal for operating door latches, mechanical safety stops on machines, and all sorts of experimental projects. Highest quality construction. Has extra long 1" stroke under loads of a few ounces. Develops considerable pull when plunger is nearly all the way in. Heavy 3/8" dia. plunger is slotted for making mechanical connection. Coil is fully insulated, rated 115 V. 60 Cy. AC for normal use. Small frame, only 1 1/8 x 1 x 2" Lg. Wt. 7 oz. No. 18C204 99c 10 Lots, 90c Special Each

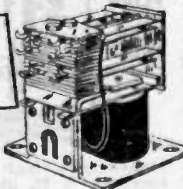
## RELAYS FOR MOBILE COMMUNICATIONS

**HEAVY DUTY 12 V. DC**

Fine for mobile communications control and other 12 volt power equipment. 4PST normally open contacts will handle 10 amps per pair. Easily paralleled for higher current. Has 85 ohm coil, heavy duty lug terminals. Compact size 1 5/8 x 1 3/4 x 2 1/8" high. Made by Allied Control. Reg. net at least \$3.00. No. 18C904. Special, Each \$1.29

**\$1.29**

REG. NET AT LEAST \$3.00

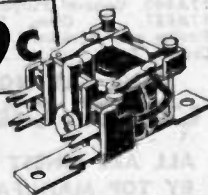


**DPST 12 V. RELAY**

Has many uses around the auto for radio and other power control. With large 10 ampere silver contacts, molded bakelite barrier, heavy duty solder terminals and 80 ohm coil for continuous duty use. Size 1 5/8 x 2 3/8 x 2" high. Highest quality throughout. No. 18B769. Special Each 99c

**99c**

Reg. Cost At Least 3 Times Our Price



**HAYDON 0-10 MIN. ADJ. RESET TIMER**

**\$5.95**

WORTH SEVERAL TIMES OUR LOW PRICE!



Works as adjustable automatic switch for "on" or "off" time delay up to 10 minutes. Haydon synchronous motor drive actuates a SPDT micro switch. Spring return provides almost instantaneous reset. Operates on 115 V. 60 cy. AC. Size 1 3/4 x 1 5/8 x 2 3/8". Convenient 2 hole flange mounting. Shpg. wt. 1 lb. No. 18A522. Spec. Each \$5.95

**SESSIONS 110 V. 60 CY. AC CLOCK-TIMER**

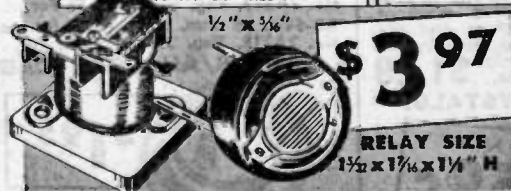
**\$3.95**

REG. NET VALUE AT LEAST \$10.00



Clock face tells time. Fine for radios and music systems. Will turn "on" at any time selected within 12 hours and stay "on" for 1 3/4 hours, then turn "off" automatically. Timing cycle will not repeat unless reset. Can be operated manually "on" or "off" at any time. Switch rating 15 amps. All adjustments made from front. Size 3 1/2" sq., 2" deep overall. No. 37B298. Special Each \$3.95

## BUILD YOUR OWN LIGHT CONTROLLED RELAY AT A FRACTION OF THE USUAL COST!



**\$3.97**

RELAY SIZE 1 1/2 x 1 1/8 x 1 1/4" H

ANOTHER B-A EXCLUSIVE SCOOP VALUE!

## LIGHT SENSITIVE PHOTO CELL AND RELAY

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 1/2 x 1 1/8 x 1 1/4" H., has SPDT 1 ampere contacts. Completed control Operates on 115 V. AC. No. 17A609. Special Light Cell and Relay \$3.97



# YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

## AMATEURS & BUILDERS



ALL ARE BRAND NEW! FULLY GUARANTEED!

### SYLVANIA IN34A GERMANIUM CRYSTAL DIODES

**29c** ALL FIRST QUALITY BRAND NEW!  
EACH 10 LOTS

FULLY GUARANTEED

Most popular diode! General application type used as detector in transistor radios, crystal sets, wave meters, standing wave ratio and frequency measuring instruments. 1/4" dia. x 7/8" long. Glass enclosed with axial leads. Every one brand new, fully guaranteed.  
No. 18A71 10 Lots, **29c**  
Spec. Ea. **39c** Each...  
100 For... **\$24.00**

### SCOOP! RCA 1625 TRANSMITTING TUBES

**39c** REG. NET VALUE WAS \$4.30

Popular 12 V. equivalent of the famous 807. Made by RCA to JAN specs. Fully guaranteed by B-A.  
No. 70A113. 5 Lots, **29c**  
Special Ea. **39c** Each...

### 7-PRONG STEATITE SOCKET FOR 1625 TUBES

**21c** REG. 74c VALUE

Low loss transmitting type with silver plated contacts. Mfg. ctrs. 13/4".  
No. 18C378. 4 **21c** For... **75c**  
Phone Ea. **21c** For... **75c**

### PHONE PATCH-AUDIO TRANSFORMER

**\$1.29** WORTH SEVERAL TIMES OUR PRICE

Schematic Included for building effective Phone Patch.  
Midjet hermetically sealed speech range transformer. Rated 250 to 2500 cps. Has three isolated windings, 22,000 ohms, 5200 ohms and 600 ohms, all center tapped. Size 7/8" sq. x 1 1/8" high, upright mtg.  
No. 18C647. Special Ea. **\$1.29**

### SAVE ON CRYSTALS!

**59c** EACH

IN POPULAR FT243 HOLDERS  
Finest quality guaranteed active oscillators. Made to Signal Corps specs. Every one brand new and perfect at a fraction of original cost.  
3980 KC 7206 KC 7373.3 KC  
7073.3 KC 7273.3 KC 7406.3 KC  
15A1277 5 Lts., **59c**  
Choice Each. **49c** Each...

# SAVE ON THESE IMPORTED CODE SETS!

## TRANSISTOR CODE PRACTICE OSCILLATOR

**\$7.95** Batteries Included

## CODE PRACTICE SET

**\$1.95** NEVER BEFORE SUCH A LOW PRICE

## B-A BARGAIN SPECIAL TELEGRAPH KEY

**69c** WORTH MUCH MORE!

Top import value compares with other oscillators selling for twice the price. Transmits clean, clear dots and dashes through the built-in loud-speaker. Volume control permits adjustment to the desired listening level. Beautiful black plastic case with brass legs, size 3 1/2" W., 3" H., 1 3/4" D.  
Supplied complete with fine quality key.  
17A607. Shpg. wt. 2 lbs. **\$7.95**  
Complete with Batteries.  
21A3. Replacement Batteries. **14c** Each

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. 22A61. Less Battery. Wt. 1 lb. Net Each **\$1.95** For. **\$3.59**  
No. 21A1. Battery for above... **14c**

Finest key we've seen of anywhere near this low price. Neat, import made with heavy 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.  
No. 17A810. Special Each... **69c**

### FAMOUS U. S. NAVY TELEGRAPH KEY

Streamlined, highest quality all brass and bakelite construction. Has heavy 1/8" silver contacts and brass arm. Unique construction insulates current carrying contacts completely from key arm and pivots. Base and terminals also fully insulated. Has slot at side for insertion of wedge type plug as used on automatic keys. Size 2 3/4" W, 5" long overall. Precision made for the Navy at a far greater cost. Shpg. wt. 2 lbs.  
No. 18A91. Special Each **\$1.95**  
Replacement Key Knob. Black Bakelite. For above and other keys.  
No. 18A100. Special Each **24c**

IT'S EVEN BETTER THAN THE POPULAR J-38 SIGNAL CORPS KEY

**\$1.95**

### LEARNING THE CODE

ARRL Book provides basic instruction for sending and receiving.  
No. 16A63. Each... **50c**

### HI-FREQUENCY BUZZER

FOR CODE PRACTICE **89c**

Fine companion for key above. Gives clear, steady "code" note. Fully adjustable. Operates on single 1 1/2 V. battery. In molded bakelite case 2" dia. Imported, at lowest cost ever.  
No. 22B51. Special Each **89c**  
21A-. ER950 Battery. Net Ea. **14c**  
14B53. Clip-in Battery Holder Net Each **29c**

# QUALITY HEADSETS AT LOWEST COST EVER!

## TOP QUALITY IMPORTED DOUBLE HEADPHONES

**\$2.95** UNUSUAL VALUE

German made. Ruggedly built with high flux magnet, highly polished bakelite shell and cap, adjustable headband. Extra sensitive with exceptionally good fidelity. Shpg. wt. 1 lb.  
No. 22C251—2000 Ohm.  
No. 22B226—4000 Ohm. **\$2.95** Choice Each

## AMAZING LOW COST DYNAMIC EARSET

MIN. PLUG AND JACK INCL. **\$1.19**

Lightweight, high quality imported headsets. 3 ft. plastic covered cord, plug, jack.  
17A349. General Purpose 2000 Ohm. 17A337. 15 Ohm. For Transistor Radios and Devices. **\$1.19** Choice, Each

## STETHOSCOPE TYPE CRYSTAL EARSET

WAS \$1.99 **99c**

SLASHING BIG PRICE CUT

Modern, lightweight, under-chin design. Fully adjustable. High impedance, wide range. 3 ft. cord.  
No. 17B202. Special Each... **99c**

## BIG SAVINGS ON COAX CABLES

ALL ARE FINEST QUALITY BY TOP MANUFACTURERS

AS LOW AS **\$3.95** 100 Ft. VALUES TO \$10.95

RG-11U. 75 ohm. Shpg. wt. 10 lbs. per C **\$2.49** 100 Ft. **\$7.95**  
No. 2B160. Reg. \$10.95. 25 Ft. For...  
RG-58U. 53.5 Ohm. Shpg. wt. 3 lbs. per C. **\$1.39** 100 Ft. **\$3.95**  
No. 2A217. Reg. \$4.90. 25 Ft For...  
RG-59U. 73 ohm. Shpg. wt. 4 lbs. per C. **\$1.39** 100 Ft. **\$3.95**  
No. 2A218. Reg. \$5.08. 25 Ft. For...

## 12-V. DYNAMOTORS

COST AT LEAST \$75.00 **\$9.88**

Removable shock mount bases with jones sockets. Spare brush sets included.  
Type DM35A. Output 625 V. DC 225 MA. Input 12.5 V. DC 18.7 A. 7 1/2" L., 3 1/2" dia. Wt. 14 lbs. **\$9.88**  
No. 4A202. Special Each...  
Type DM65A. Output 440 V. DC 400 MA. Input 12.5 V. DC 28 A. 8 1/4" L., 4" dia. Wt. 20 lbs. **\$11.88**  
No. 4A203. Spec. Ea. **\$11.88**  
HEAVY DUTY 12 V.D.C. RELAY  
For Dynamotors as above.  
Two relays in one. Each, SP double break normally open with silver contacts rated 50 A. Screw term. Insulated base 3 3/8" W. x 4" L. x 1 3/4" H. Wt. 1 lb.  
No. 18A937. Special Ea. **\$1.95**

## RG-8/AU COAX CABLE ASSEMBLY WITH PL259 CONNECTORS

**\$1.95** REG. \$3.54 NET VALUE

16' length genuine RG-8/AU coax cable factory assembled with popular PL259 connectors each end. A terrific value! Priced at less than the regular cost of the cable alone. Wt. 2 lbs.  
No. 3A163. Special Each **\$1.95**

## SAVE! COAX CABLE CONNECTORS

Stk. No.	Type	Each	100 Ea.
18A806	PL-259	<b>\$0.59</b>	<b>\$59.52</b>
18A805	SO-239	<b>.61</b>	<b>.55</b>
17B185	M-359	<b>1.24</b>	<b>.99</b>
18B809	PL-258	<b>.96</b>	<b>.85</b>

# MIKES AT SMASHING BARGAIN PRICES!

## CARBON MICROPHONE



Zillions of gimmick possibilities. Don't be misled by B-A's ridiculous low price—a complete mike at less than the usual cost of just a carbon button alone. Neat modern styling, fits comfortably in palm of hand or is self-standing for table top use. 36" wire lead with banana plug.

No. 18A363. Special Each **69c**  
Mike Transformer for matching above to input of amplifier, recorder, etc.  
No. 18A695. Special Each **69c**

## CRYSTAL HAND MIKE

REG. NET \$5.70

**\$1.99**

PRODUCT OF FAMOUS AMERICAN MAKER

Top quality... originally intended for use with a 2-way radio selling for over \$125. High impedance, high output, wide range. Fine for home recording, paging, detectophones, ham and citizens band gear, etc. Truly neat and compact. Grey plastic housing, 2 1/8 x 2 1/8 x 7/8" fits hand perfectly. 30 to 10,000 cps response. Output level -48 db. Attached 5 ft. shielded cable. Wt. 1/2 lbs.  
No. 18A62. Special Each **\$1.99**



## CRYSTAL MICROPHONE



EQUAL TO MIKES SELLING 3 TIMES OUR LOW PRICE

Best mike value we've seen. Built and imported for use with a famous make tape recorder. High impedance with exceptional clear cut response and high output. Beautiful grey plastic case 3x2 1/4 x 1 1/4" for threaded desk stand or hand held use. 5 ft. shielded cable. Shpg. wt. 1/2 lb.  
No. 18A536. Special Each **\$2.19**

# YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

## MIKES AND CONNECTORS



ALL ARE BRAND NEW! FULLY GUARANTEED!

### MIKE CONNECTORS

**24c** **20c**

① Standard Female cable type. 14A320. Each **24c** 10 Ea... **21c**  
② Standard Male chassis type. 14A321. Each **20c** 10 Ea... **18c**

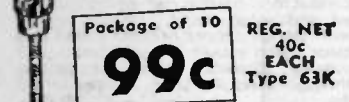
## HEAVY DUTY TYPE "5-WAY" BINDING POST



NOW AT A PRICE EVERYONE CAN AFFORD

Takes up to No. 12 buss wire or pin tip through cross hole, spade lug or wire loop under the cap or banana plug in the top. Brass 10-32 hardware, heavy shank for high current, low resistance contact. Hex cap and mounting collar are insulated. Mounts 7/8" above panel, 3/8" dia. Specify choice Red or Black.  
No. 18C651. 10 @ **24c**  
Special Each **27c** Each **21c**  
100 Lots, Each **21c**

## EBY SPRING TYPE BINDING POSTS



Package of 10 REG. NET 40c EACH Type 63K  
**99c**

Metal cap 1/4" dia. x 3/8" H. with black insulated top. 6-32x1/2" stem.  
No. 18A53. 10 For **99c**  
Special Ea... **15c**

## INSULATED FEED-THRU TERMINAL



Tie-point terminal for mounting components, for high voltage and RF feed-thru, etc. Fully insulated. Leakage path 1/4". Mounts in 3/8" hole.  
No. 18A73. 10 Lots, **19c**  
Spec. Ea... **24c** Each **19c**

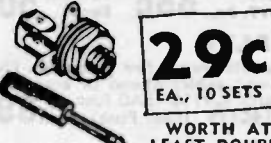
## UNUSUAL VALUE!



WORTH AT LEAST \$1.50 **69c**

Real top quality with rugged enameled black steel case and polished pole pieces. Features unusually fine fidelity—with bass response that is absolutely amazing. Works well across voice coil of radio, phono, recorder, amplifier, etc. for private listening or monitoring. Fine also for testing 80 ohms. 2 3/8" dia, 1" thick. 6 ft. cord with spade lugs. Shpg. wt. 1 lb.  
No. 18B393. Special Each **69c**

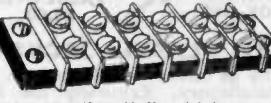
## SUB-MINIATURE PLUG & JACK SET



WORTH AT LEAST DOUBLE

Real tiny size. Plug measures only 1 1/8" long overall x 3/8" 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.  
No. 17B465. 10 Sets, **29c**  
Spec. Per Set **39c** Each **29c**

## BARRIER-TYPE TERMINAL BLOCKS



Finest quality Kulka high tensile strength bakelite strips complete with brass screws.  
15-TERM. 601 (53-33). Low loss phenolic type. 1 1/8" W x 1/2" H x 7/16" L. Term spacing 3/16".  
18C915. 10 Lots, **44c**  
Spec. Ea. **49c** Each **44c**  
19-TERM. 600-MFE mica filled type. 7/8" W x 1 1/8" H x 7/16" L. Term spacing 3/16". Reg. net \$2.99.  
18C901. 10 Lots, **49c**  
Spec. Ea. **59c** Each **49c**

## JONES SOLDER TYPE 10 TERMINAL STRIP



REG. NET 14c EACH **69c** Package of 10  
Type 2000 with .019" 1in plated brass terminals spaced on 1/4" centers. Compact and sturdy. 3 1/2" mtg. ctrs.  
No. 18A525. 9c Pkg. **69c**  
Special Each **9c** 10 For **69c**

## MOST POPULAR STANDARD 1/4" PHONE PLUGS & JACKS BARGAIN PRICED



① **FLAT TYPE PLUG.** Two conductor. Use where space is limited. Protrudes only 1/4". Bakelite shell screw connectors. 10 Lots, **53c** Each **48c**  
18A241. Ea. **53c** Each **48c**

② **OPEN CIRCUIT TYPE JACK.** Mates with all standard 1/4" phone plugs. Mounts in 3/8" hole.  
No. 18B856. 10 Lots, **23c** Each **21c**  
Net Each **23c** Each **21c**

③ **STANDARD TWO-CONDUCTOR PLUG.** For 1 or 2 pairs of phones with either pin tip or lug type cords. Bakelite barrel. 10 Lots, **29c** Each **27c**  
17A793. Each **29c** Each **27c**

④ **ALL METAL SHIELDED PLUG.** Another top quality import value. 1/2" x 1 1/4" nickel plate brass shell. Two-way with solder lug connections. 59c value.  
17C411. Each **33c** Each **29c**

⑤ **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.  
No. 17C665. 10 Lots, **29c** Each **27c**

⑥ **PORTABLE TYPE JACK.** Single open circuit type for phone or mike extension use. Fits all standard plugs. Bakelite barrel 2" L x 1 1/4" dia.  
No. 12A394. 10 Lots, **69c** Each **59c**  
Net Each **69c** Each **59c**

⑦ **PLUG AND JACK SET FOR MAKING PHONE, MIKE, ETC. CABLE EXTENSIONS**  
Priced at a mere fraction of the original value. All are brand new and perfect. Plug is the popular Signal Corp type PL54. Jack is open circuit type JK-26. Buy plenty while they last.  
No. 17A633. 10 Sets, **39c**  
Spec. Per Set **45c** Each **39c**

**GENUINE PL55 PLUGS**  
All brand new and perfect at a terrific price saving. Overall length 2 1/2". Finest quality with Tennite shell.  
No. 19B993. 10 Lots, **49c** Each **39c**  
Special, Ea. **49c** Each **39c**

**PL68 PLUGS**  
Popular 3 conductor mike plug for .206" dia. jacks as used with Collins, Gonset, and other communications gear. Reg. net over \$2.00.  
No. 18A385. 10 Lots, **89c** Special Ea. **89c** Each **75c**

**6-FT. PATCH CORD**  
With PL55 and JK26 Jack. Fits HS23, H33, etc. Also standard plugs and jacks for extensions.  
No. 17A878. Special Each **99c**



# BUY AT B-A'S LOW PRICES ON U/L CORDS

**YOU SAVE \$\$\$**  
ON THESE SPECIAL  
**BARGAINS**

**CORDS, WIRE,  
PANEL METERS**

**ALL ARE  
BRAND NEW!  
FULLY GUARANTEED!**

**WILL OUTLAST  
6 ORDINARY  
CORDS**



**ONLY  
39c**  
Each  
10 Lots

### BELDEN 7 1/2-FT. HEAVY DUTY AC LINE CORD

Heavy flexible, tinned copper conductors sheathed with liberal thickness of good live rubber and attached to rugged rubber plug with durable spring contacts. A superior, extremely flexible all purpose cord. Pearl gray. No. 19B800. **44c** 10 Lots, **39c** Special Each

### BELDEN ALL PURPOSE 8-FT. CORD

Type SJ. Two size 18 tinned copper conductors rubber insulated, color coded, cotton wrapped and black rubber sheath overall. Soft molded plug, bare ends stripped. A truly rugged cord for heavy duty service. No. 19A753 **55c** 10 Lots **49c** Special Ea...



**PROVIDES POSITIVE PROTECTION AGAINST SHORT CIRCUITS IN TELEVISION, RADIO, APPLIANCES, ETC.**

### FUSE PLUG

Helps eliminate fire hazards. Plugs into wall outlet ahead of equipment. Requires 1/4 x 1/4" 3AG fuse. No. 14C179. (Less Fuse) Each **39c**



**27c**  
Each 10 Lots!

### 6 FT. AC LINE CORDS

Extra flexible "zip-apart" size 18 cords with molded attachment plug. Free end stripped.

**POT PLASTIC**  
No. 19B911-Brown No. 19A910-Gray  
Choice **27c** 10 **\$1.99**  
Each..... For...

**POSSJ RUBBER**  
No. 19B850-Brown No. 19A912-Ivory  
Choice **32c** 10 **\$2.49**  
Each..... For...

### 3-OUTLET EXTENSION SETS

Top quality extension cord sets with bakelite cube top. No. 18 POSSJ brown rubber cord and plastic plug.

6 Foot **39c** 10 Lots, **36c**  
19B871. Ea... Each...  
12 Foot **55c** 10 Lots, **50c**  
19B879. Ea... Each...



**69c**

MFG. LIST \$1.29



**99c**

### 18 Ft. APPLIANCE CORD

Finest SV type. Extra long life, extra flexible, with pearl grey plastic jacket and jute filler. Two size 18 (41x34) conductors vinyl insulated. Molded on rubber plug.

No. 19A917 **69c** 10 @ **63c**  
Special Ea... Each...

### 20 Ft. EXTENSION CORD

Finest, best looking household extension cord set made. With smooth ivory rubber jacket and ivory male and female soft molded plugs. Type SJ, extra flexible, with two size 18 conductors. Fine for fans, lamps, radios, hi-fi, TV, etc.

No. 19A913 **99c** 10 @ **90c**  
Special Ea... Each...

### 9 Ft. REPLACEMENT CORD

Extra long, much neater than using extensions for lamps, clocks, radios, etc. High quality 18/2 parallel brown plastic (POT) with molded plug.

No. 19A909 **39c** 10 @ **35c**  
Special Ea... Each...

### 18/2 LAMP AND APPLIANCE CORD



**\$1.59**  
100 Ft.

Highest grade, extra flexible plastic POT (SPT-1) zip cord with size 18 conductors. Fine for speaker hookups, AC extensions, etc. Specify choice of Brown or Ivory.

2863. **59c** 100 Ft. **\$1.59**  
Spec. 25 For...  
1000 Ft. For... **\$14.95**

### NEOPRENE INSULATED PARALLEL WIRE



**\$2.35**  
100 FT.

### PERFECT ALL-PURPOSE WIRE FOR INDOOR, OUTDOOR OR UNDERGROUND USE

Really rugged. Water and abrasion proof. Perfect for outdoor, indoor, or underground alarm, intercom, telephone, PA, etc. installations. Two size 18 copperweld high strength conductors encased in laminated neoprene and cotton with black neoprene jacket overall. Size .200" x .300". Wt. per 1000 ft. 48 lbs.

No. 2C18 **79c** 100 Ft. **\$2.35**  
25 Ft. For... Coil...  
1000 Ft. For... **\$18.95**

### DOUBLE PHONO JACK

10 FOR **69c**  
2 standard phono jacks mounted on 1 1/2" L x 1" W. fibre strip. Handy for stereo installations.  
No. 18A215 **9c**  
Special Each...  
10 For... **89c**

### TREMENDOUS SAVINGS ON PANEL METERS!



**\$27.00 VALUE**  
**\$2.99**  
RF AMMETER



**\$2.88**  
0-500 MICROAMMETER

Highest quality D'Arsonval moving coil types in neat black bakelite cases. Plainly calibrated for easier reading. All have zero set. RF type has internal thermocouple.

Stk. No.	Range	Mfg.	Size	Spec. Each	5 Lots Each
18A10	0-3 RF Ammeter	Weston Sang.	2 5/8" Round	<b>\$3.88</b>	<b>\$3.50</b>
18A579	0-500 DC MA	G.E.	2 1/4" Round	<b>2.99</b>	<b>2.75</b>
18A916	0-500 Microamps	Dejur	1 3/4" Square	<b>2.88</b>	<b>2.59</b>
18A132	0-1 DC MA	Burlington	3" Square	<b>5.98</b>	<b>5.50</b>



**\$2.95**



**\$4.95**  
REG. \$21.25 VALUE

**MINIATURE 1-INCH MILLIAMMETER**  
D'Arsonval center scale movement 5-0-5 DC MA with zero set. Unmarked face easily calibrated. Glass bezel screws on like a watch crystal. Black anodized metal case. Mounts in 1" hole. Requires only 1" depth.  
No. 18A387 **\$2.95** 5 @ **\$2.50**  
Special Ea... Each...

**WESTON MINIATURE 0-100 DC MA**  
Precision quality 1 3/4" square D'Arsonval type. Neat black bakelite case with black on white calibrated scale. Mounts in 1 1/2" hole. Requires 1" depth.  
No. 18C205 **\$4.95** 5 @ **\$4.75**  
Special Ea... Each...

### SAVE ON HIGHEST QUALITY SHIELDED AUDIO CABLES



**100 FT.**  
**\$2.39**  
WORTH AT LEAST 7c FT.

**COAXIAL TYPE FOR AUDIO & RF WORK**

### POLY-INSULATED

Ideal for hi-fi, intercoms, telephones, paging, communication lead-ins, etc. Highest quality coax construction similar to RG-58A/U with more copper. Low-loss clear polyethylene dielectric; 19 strands .012 tinned center conductor; tinned braid shield; brown polyethylene jacket overall. O.D. .195". Cap. 48 mmfd per ft. Characteristic imp. 40 ohms.

No. 2B188 **75c** 100 Ft. **\$2.39**  
25 Ft. For...  
1000 Ft. For... **\$19.99**



**100 FT.**  
**\$1.99**  
REG. NET VALUE OVER \$3.00

**PERFECT FOR HI-FI HOOK-UPS**

### Vinyl PLASTIC JACKET

Exactly as used for audio leads in hi-fi installations. Extremely low loss with close woven tinned copper braid. None better for long custom lengths—no effect to performance of amplifiers, tuners and other components. No. 20 stranded copper conductor, vinyl insulated, braid shield and gray vinyl jacket. O.D. .130".

No. 2A189 **59c** 100 Ft. **\$1.99**  
25 Ft. For...



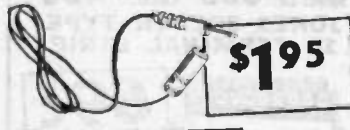
**100 FT.**  
**\$2.49**  
REG. VALUE OVER \$4.00

### TWO-CONDUCTOR

Two size 22 tinned copper stranded conductors, plastic and nylon insulated and color coded. Tightly twisted with tinned copper braided shield and clear nylon jacket overall. Small .112 outside diameter ideal for pulling through conduit. Shpg. wt. per M' 17 lbs.

No. 2A216. 25 Ft. for... **79c**  
100 Ft. **\$2.49** 1000 Ft. **\$22.95**  
For... For...

### 18-FT. MIKE-AUDIO CABLE With SHIELDED PLUGS



**\$1.95**

**ASSEMBLED AT LESS COST THAN WIRE & PLUGS ALONE**

Highest quality. American made of flexible shielded mike cable with attached male and female 1/4" phone plugs.

No. 18A827. Special Each... **\$1.95**



**69c**

### ANGLE MIKE CONNECTOR

Standard single contact female type with 5/8-27 thread. Brass, chrome plated. Amphenol 75-MCIF-A. Reg. net \$1.23.

No. 18B489. Each... **69c**

### WEATHERPROOF TWISTED PAIR WIRE

FINE FOR TELEPHONES, INTERCOMS, PA, SIGNAL SYSTEMS, ETC.



**\$2.95**  
500 FT.  
5280 FT. CONTINUOUS **\$24.95**

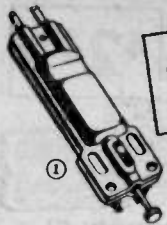
Tremendous value! Would ordinarily cost several times B-A's low price. Two size 18 stranded (3 copper, 4 steel) conductors rubber insulated and weatherproofed with tough impregnated cotton braid overall. Steel strands add extra strength for long runs. Shpg. wt. 500 ft. 13 lbs. No. 2A207. W110B **99c**  
100 Ft. Coil...

500 Ft. **\$2.95** 5280 Ft. **\$24.95**  
Coil... Reel...

**500 FT. WITH PORTABLE PAY-OUT/REWIND CARRIER.** Also includes ground stake and handle for payout or rewind from fixed position. Easily reloaded after wire is used. Shpg. wt. 20 lbs.

No. 2A208. 500 Ft. Reel of Wire with Carrier... **\$3.95**

# REPLACEMENT PHONO CARTRIDGES & ARMS



**99c**

**FITS ALL PLAYERS**

## ① UNIVERSAL ALL-GROOVE

For all players. Use with all-groove needle. Std. 1/2" mtg. Output 3 to 5 V., range 50-8000 cps. Top import quality. Less needle.  
No. 17A629. 10 @ **99c** Each... **90c**

## ② UNIVERSAL TURNOVER

With sapphire standard and micro-groove needles. Regular 1/2" mounting for all changers and players. Output 3 V. Wide range 40 to 13,000 cps.  
No. 17A673. **175** 10 @ **159** Import Spec... Each...



**\$175**

**STEREO VERSION \$2.49**

## ② STEREO TURNOVER

For stereo conversion or replacement. Fits standard 1/2" mtg. ctrs. Ronette type high output crystal with dual sapphire needles for monaural and stereo records. 40-12,000 cps frequency response.  
No. 17A194. Special Each. **\$2.49**

## STEREO WIRING KIT

36" shielded phono lead with plug, hardware and instructions for converting changers and players to stereo.  
No. 22B325. **\$1.29**  
Net Each.....

**BIG IMPORT SAVING**

**\$2.35**



## ③ PHONO ARM WITH TURNOVER CARTRIDGE

Fine for replacement or for building your own phono. Plays all 4 speeds. Sturdy lightweight retractable mounting type complete with turnover cartridge described at left (17A673), arm rest and hardware. Gray hammertone finish.  
No. 22A385. Special Each **\$2.35**

## ③ STEREO ARM & CARTRIDGE

As above, but with stereo turnover cartridge for playing all records—monaural and stereo. Output 3 V. Ivory finish.  
No. 22A386. Special Each. **\$2.95**

**YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS**

# PHONO COMPONENTS



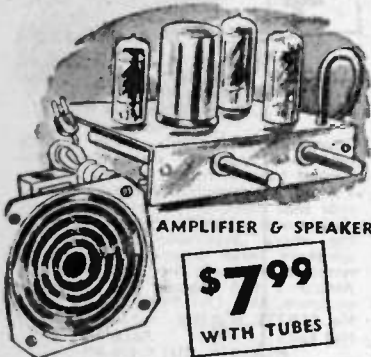
**ALL ARE BRAND NEW! FULLY GUARANTEED!**

## RECORD BRUSH

PROTECTS VALUABLE RECORDS

Prevents static & noise from dirt in record grooves. Attaches to any phono arm.  
17C657. **59c**  
Net Each.

## GIANT SAVINGS ON PHONO COMPONENTS HAVE FUN & SAVE — BUILD YOUR OWN PHONO!



AMPLIFIER & SPEAKER

**\$7.99**  
WITH TUBES



LIST VALUE \$15.00

**\$4.59**

\$11.75 LIST VALUE

**\$5.95**

## TOP VALUE! 3 TUBE PHONO AMPLIFIER

● PLUS 4-INCH PM SPEAKER ● FINE FOR STEREO CONVERSIONS  
A real sweet deal! Fine quality amplifier as used in the better record players. 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 1/2" W. x 2 1/2" D. x 4 3/4" H. U/L AC-DC card and plug. Includes heavy-duty 4" PM Alnico V Speaker and Output Transformer. Wt. 2 lbs.  
No. 22B87. Complete with Tubes & Speaker. **\$7.99**  
No. 22B200. Amplifier only (less tubes). Net Each. **\$3.99**

## RONETTE TURNOVER CRYSTAL PICKUP

Features world famous Ronette TO-222 turnover crystal cartridge and dual sapphire needles for all standard records, 78 RPM and long playing. Wide range response. Output 2.2 volts. Modern, lightweight arm. Save over 50%.  
No. 17B98. Special Each. **\$4.59**

## ALLIANCE 4-SPEED PHONO MOTOR

Rim drive 8" turntable for all sizes, all four speeds of records, standard and stereo. Has 45 RPM center adapter. Dynamically balanced for dependable, constant speed operation. Requires 2 1/2" below mtg. plate. 115 V., 60 cy. AC. Shpg. wt. 4 lbs.  
No. 37B188. Special Each. **\$5.95**

## SUPER-SAVING COMBINATION OFFER

Everything needed to build a top quality 4-speed record player in cabinet of your choice. Includes Phono Amplifier deal, Phono Motor, and Pickup, all as described above. Complete with simple hookup instructions. Shpg. wt. 6 lbs. Reg. net value at least \$30.00.  
No. 32B215. All For Only. **\$16.95**

## FAMOUS MAKE REPLACEMENT PHONO CARTRIDGES AT BIG SAVINGS!



### ① SHURE CERAMIC "TURNOVER" FOR ALL-SPEED PHONOS

Superior quality wide-range cartridge for most record changers or players. Superior response to 15,000 cps. Replaceable type dual needles. Output: 5 V. Mg., 7 V. Std. Mfg. list \$14.50.  
No. 17A283. Type WC-6. Special Each. **\$2.39** 5 Lots Each. **\$1.99**

### ① SHURE CRYSTAL "TURNOVER" FOR ALL-SPEED PHONOS

Top quality, hi-output for superior performance in low-gain phonos. Frequency response to 10,000 cps. Replaceable type dual needles. Output: 3.5 V. Mg., 5 V. Std. Mfg. list \$9.50.  
No. 17A284. Type W-9. Special Each. **\$1.99** 5 Lots Each. **\$1.75**

### ② RONETTE CRYSTAL "SINGLE-NEEDLE" FOR 45 RPM PHONOS

Popular series NE-395-S-2 as used in 45 RPM players requiring pressure fit type cartridge with replaceable type needle. Mfg. list \$7.25.  
No. 17A329. Special Each. **\$1.69** 5 Lots Each. **\$1.50**

## BUILD YOUR OWN BATTERY OPERATED PHONO!

AT LEAST A \$20.00 LIST VALUE

**\$7.88**



## 45 RPM PHONOGRAPH KIT

Kit consists of battery-operated 45 RPM phono motor with 6 1/2" dia. turntable, pickup with Astatic high output (3 V.) crystal cartridge and replaceable needle, automatic switch assembly, and 8 1/2" L. x 7 1/2" W. metal mounting plate.  
Operates on 6 V. DC or from 4 standard flashlight batteries. Speed control assures proper turntable speed even after batteries have been in service for some time.  
All wiring and assembly instructions included. Perfect for use with transistor amplifier at right.  
No. 32B265. Complete... **\$7.88**

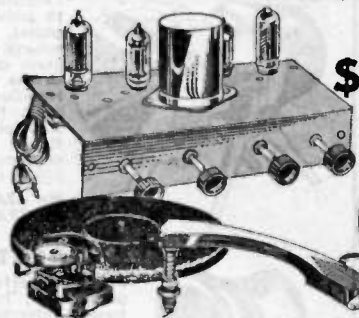


TRANSISTORS ALONE WORTH MORE THAN PRICE OF AMPLIFIER

## POWERFUL PUSH-PULL All Transistor Amplifier

Big amplifier performance from a unit not much larger than a cigarette case. Powerful push-pull circuit with 3 fused-junction power type transistors for amazing volume and clearest tone. Plenty of gain for crystal phono pickup. Operates with matching speaker or 15 ohm dynamic headset. Long-life operation on just 4 standard flashlight batteries. Complete with instructions and schematics for many interesting devices. Shpg. wt. 1 1/2 lbs.  
No. 22B305. Special Each. **\$7.88**  
Matching 4" PM Speaker. Regularly \$2.55 each.  
No. 22B306. When Purchased with Amplifier, Spec. Each... **99c**

## BUILD YOUR OWN STEREO PHONO AT A TREMENDOUS \$\$\$ SAVINGS



COMPLETE KIT

**\$22.95**

COMPARE AT OVER \$50.00 WHEN FINISHED

Lots of fun for everyone while saving \$\$\$\$. Easy to build—nothing more needed except the cabinet. Builds into practically anything, takes little room. All components highest quality, same as expensive factory made models. Amplifier completely wired ready for hookup to speaker and phono arm.  
**4 TUBE STEREO AMPLIFIER** powered by 2-12AU6 and 2-50C5 tubes for providing big set volume and tone. Versatile L shape for vertical or horizontal mounting. Separate volume and tone controls for each channel. 7" L., 2 3/4" D., 3 3/4" H. Bright cadmium finish. Modern decorative knobs.  
**TWO BIG 5" SPEAKERS** for excellent tone. Extra powerful with 1 oz. Alnico V PM magnets. Includes output transformers.  
**ALLIANCE 4-SPEED MOTOR** with 8" rim drive turntable. Has 45 RPM center adapter. Dependable, constant speed operation at 78, 33, 45 or 16 RPM.  
**LIGHTWEIGHT PHONO ARM** with stereo turnover cartridge and dual sapphire needles for playing all records—monaural (standard) and stereo. Convenient, space saving retractable mounting. Attractive ivory finish. Supplied complete with arm rest and hardware.  
Includes simple instructions. Plays on 110-120 V. AC. Shpg. wt. 6 lbs.  
No. 33A17.  
**Stereo Phono Kit. Complete with Tubes. \$22.95**  
No. 22A377. **AMPLIFIER ONLY WITH TUBES. \$10.95**  
(Less Knobs) Special Each.



# YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

## HIGH FIDELITY SPEAKERS



ALL ARE BRAND NEW! FULLY GUARANTEED!

### REMARKABLE BUYS!

#### COAXIAL HI-FI SPEAKERS



MFG. LIST \$19.50  
**\$9.99**  
12"

Surprising top quality. Will improve tonal performance of any radio, TV, phono or hi-fi having single cone speaker. Appearance and performance of speakers costing many times more. Attractive blue cones, blue hammer-rod baskets, dust covers over pots.

**8-IN. COAXIAL.** Heavy duty 8" woofer (3.16 oz. magnet) with 3" tweeter. Crossover at 2800 cps. Freq. response 60-15,000 cps. Rated 8 watts. Imp. 8 ohms. Mfg. List \$12.80. No. 22B312. Special Each. **\$6.97**

**12-IN. COAXIAL.** Heavy duty 12" woofer (6.8 oz. magnet) with 3 1/2" tweeter. Crossover at 2000 cps. Rated 12 watts. Response 50-15,000 cps. 8 ohms. Mfg. List \$19.50. No. 34A309. Special Ea. **\$9.99**

**15-IN. COAXIAL.** Heavy duty 15" woofer (6.8 oz. magnet) with 5" tweeter crossover at 1800 cps. Rated 14 watts. Response 40-15,000 cps. 8 ohms. Mfg. List \$26.00. No. 34A312. Special Ea. **\$13.50**

## BIGGEST SAVINGS ANYWHERE! HI-FI SPEAKERS

### 8-INCH TWIN-CONE HI-FI SPEAKER

FAMOUS-MAKE  
**\$7.26**

REGULAR \$16.50 VALUE!

#### EXCEPTIONAL QUALITY AT SURPRISINGLY LOW COST

A fantastic value! Ideal replacement for older type speakers in record players, TV sets, radios, etc., or for hi-fi systems where space is limited. Handles up to 10 watts. Frequency response 75-19,000 cps. Impedance 4-6 ohms. Reg. \$16.50 value. No. 34B207. **\$7.26** 3 Lots, **\$6.60** Net Each... Each...

### 6-INCH TWO-WAY HI-FI SPEAKER

**\$8.95**

FINEST IMPORT VALUE

Absolutely amazing! Provides performance surpassing that of larger and more expensive speakers. Excellent low frequency response provided by specially treated woofer. True coaxial system—center mounted tweeter efficiently reproduces the high notes. Power handling capacity 8 watts. Frequency response 50-16,000 cps. with lowest resonant frequency 65 ± 10 cps. Flux density woofer and tweeter, each 10,000 gauss. Depth 4 3/4". V.C. imp. 8 ohms. Shpg. wt. 4 lbs. No. 22A381. Net Each... **\$8.95**

MFG. LIST \$10.00  
Mount horizontally or vertically

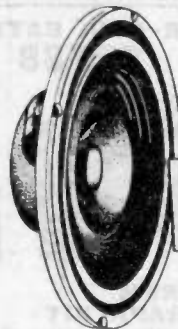
**\$2.99**



### AMAZING VALUE! 2 1/2" x 10" SPEAKER FITS MOST UNUSUAL SPACES

Nothing else like it to compare! Fits where no other speaker will fit while providing unusually fine performance. Mounts horizontally or vertically in bookcases, cabinets, drawers... tucks away conveniently anywhere. Top make with 1.47 oz. Alnico V magnet. 3.2 ohm V.C. B-A special purchase makes possible the low, low price. No. 22B282. Special Each... **\$2.99**

### EXCEPTIONAL NEW 12-INCH HI-FI SPEAKER



FEATURES LATEST CONCEPT IN HI-FI SPEAKER DESIGN

**\$14.95**

BIG IMPORT SAVINGS

Right up-to-the-minute in appearance and performance. Takes advantage of the newest advancements in high fidelity speaker design for exceptional sound reproduction as only expected from speakers costing 3 times as much. Rugged, heavy-duty diecast frame plus accordion edge cone assures greatly improved bass response. Coaxially mounted inner-cone reproduces silky highs with velvet smooth crossover. Frequency response 30 to 13,000 cps. Resonant frequency 45 ± 10 cps. Power handling capacity 20 watts with peak of 40 watts. Crossover at 1800 cps. Total flux 85,000 maxwell. Depth only 3 1/2". V.C. imp. 8 ohms. Shpg. wt. 6 lb. No. 34C273. Spec. Ea. **\$14.95**

### SPEAKER FITS UNDER PILLOW

LISTEN TO RADIO OR TV WITHOUT DISTURBING OTHERS



**\$2.79**

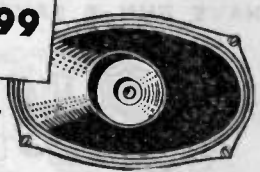
Low impedance magnetic unit operates on bone conduction principle. Connects to output transformer of set, or with addition of plug can be plugged into earset or extension speaker jack of sets so equipped. 2 1/8" dia. x 1 1/8" thick plastic case with 74" two conductor plastic insulated cord. Instructions included. Highest quality import. Shpg. wt. 1 lb. No. 17C256. 3 Lots, **\$2.49** Special Each... Each...

### 6 x 9" TWIN-CONE TRU-FIDELITY SPEAKER

MFG. LIST \$9.50

**\$4.99**

ALNICO V PM MAGNET

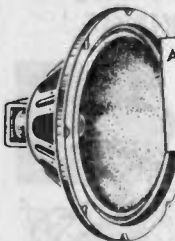


Powerful heavy duty, high quality twin-cone speaker. Perfect for improved tone in record players, radios, TV sets, automobile radio dash and rear seat installations, etc. Electronic design and principle same as found in the more expensive high fidelity speakers. Inner cone carries the high notes, outer cone the lows. 3.16 oz. Alnico V PM magnet 3.2 ohm impedance. Mfg List \$9.50. No. 22B275. **\$4.99** 10 Lots, **\$4.49** Net Each... Each...

### HEAVIER DUTY 6 x 9"

8 watts of power, full 1 inch voice coil, wider frequency response than above 4.64 oz. Alnico V PM magnet. Mfg. list \$11.60. No. 22B49... **\$6.96** 3 @ **\$6.61** Each...

### SPECIAL PURCHASE MAGNAVOX 15-INCH SPEAKER



AT LEAST \$25.00 LIST VALUE  
**\$8.88**

AS USED IN EXPENSIVE HI-FI CONSOLES

Incomparable Magnavox quality at surprising low cost. Produced for expensive hi-fi consoles where finest performance is a must. Fine as single full-range speaker for hi-fi, PA, etc. Especially well suited as woofer for 2 or 3-way speaker systems providing exceptional bass response with free air resonance frequency as low as 35 cps. Full 1-inch voice coil and heavy 6.8 oz. Alnico V magnet for 10 watts power handling capacity. 6 1/2" depth. Imp. 8 ohms. Wt. 4 1/2 lbs. No. 34A291 **\$8.88** 4 For... **\$2.995** Spec. Ea. For...

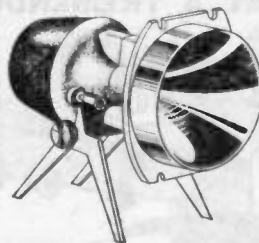
### 3-Way SPEAKER SYSTEM WITH MAGNAVOX 15" WOOFER 8" MID-RANGE... HORN TWEETER CROSSOVER NETWORK

An exceptional value! Consists of 15" Speaker above, Direct Radiator Tweeter at right, University "Baton" 3-Way Crossover plus a fine 8" Mid-range Speaker. A real money saving opportunity. 8 ohms V.C. Imp. Wt. 16 lb. No. 34A82. Complete **\$24.95** 3-Way System...

## SENSATIONAL BUYS! TWEETERS & CROSSOVERS

COMPARE WITH UNITS COSTING 3 TIMES OUR LOW, LOW PRICE

### SUPER DELUXE HORN-TWEETER



Exceptional import value! Superbly engineered to provide 360° dispersion of high frequency sound. Highly efficient driver has edgewise wound voice coil of ribbon type aluminum wire, gives a flat frequency response of from 1500 to the super-sonic band of above 20,000 cps. Handles up to 20 watts of power. Total magnetic flux 30,000 maxwell. Beautifully constructed heavy diecast horn in satin gold finish. Adjustable chrome base for table top or mounts in enclosure. Mounting diameter 3 1/2", depth 5 1/2". Shpg. wt. 2 1/2 lbs. No. 22A380 8 Ohm. Your Choice **\$11.95** No. 22A383 16 Ohm Each...

### DIRECT RADIATOR TWEETER



Amazing performance at fantastic low price! Provide phono, TV, hi-fi, etc., with improved high fidelity tone. Extends the high frequency response of any single cone or coaxial speaker. Handles 20 watts of power. Frequency response 3000 to 16,000 cps. Use with crossover at right or similar. Attractive satin gold. size 2 7/8" dia., 2 3/8" deep. With mtg. bracket. Shpg. wt. 1 lb. Top Import quality. No. 17B817—8 Ohm. Choice **\$3.29** No. 17B819—16 Ohm. Each...

### 3-IN. HARD CONE TWEETER



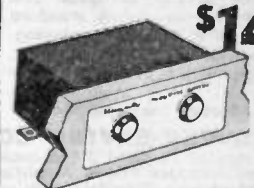
**\$1.95**

BIG SAVINGS

Genuine high frequency tweeter with hard curvilinear cone, fully encased rear. Use with any 8 ohm speaker or woofer for two-way hi-fi speaker system. Crossover recommended at 2500 cps. Frequency response 1800-20,000 cps. Handles 15 watts. Size 3 1/2" Sq. x 1 1/8" D. Wt. 1 lb. No. 22B327. Special Each. **\$1.95**

Capacitor Crossover for use with above. Molded tubular 2 mfd. @ 200 V. 2 1/8" L. x 7/8" dia. Axial wire leads. Reg. \$1.00. No. 18A584. Special Each... **59c**

### UNIVERSITY "BATON" 2 OR 3-WAY LC CROSSOVER NETWORK



**\$14.95**

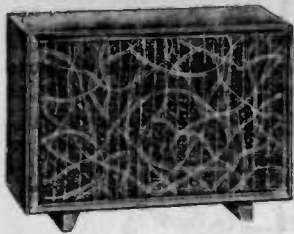
REG. NET \$32.00

B-A special purchase value! Authentic inductive-capacitive (L/C) network featuring "Brilliance" and "Presence" controls for adjustment of speaker performance to match room acoustics and program source material. Use with 8 ohm speakers and tweeters for 2 or 3 way hi-fi speaker systems. Crossover points 350 to 700 cps and 5000 cps. Mounts vertically or horizontally or sit on table top. 7" W., 5" D., 3" H. Wt. 5 lbs. 37A390. **\$14.95** 2 For... **\$28.50** Spec. Ea. For...

### HORN TWEETER WITH 2 OR 3-WAY CROSSOVER

An unbeatable combination for adding sparkling new brilliance to high fidelity component systems or consoles. Consists of Super Deluxe Horn Tweeter described at left plus famous University Baton Crossover Network above. 8 ohm V.C. imp. Compare at over \$50.00. Tweeter & Crossover No. 34A81 **\$22.95** 2 For **\$44.00** Special... For

# UNUSUAL VALUES IN EXTENSION SPEAKERS!

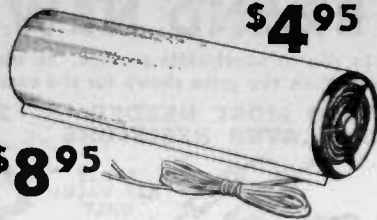


**\$8.95**

## WIDE RANGE SPEAKER In Mahogany Enclosure

Complete, ready to hook up to any radio, TV, phono, hi-fi, etc. Beautiful mahogany finished hardwood enclosure with attractive modern grille. Completely enclosed for finest baffling of heavy-duty 6 1/2" PM speaker. Provides full wide-range tone. Built-in fader control varies volume without affecting other speakers in system. 4-8 ohm V.C. Shpg. wt. 8 lbs.

No. 34A176. Import Special **\$8.95**



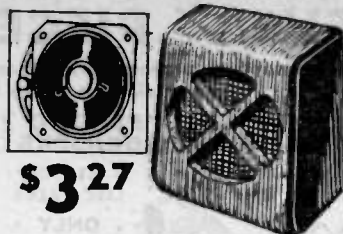
**\$4.95**

## FANTASTIC TUBULAR ACOUSTICAL SPEAKER

SOUND FLOWS FROM BOTH ENDS

Absolutely amazing sound reproduction... you must hear it! Provides big speaker performance with unusual bass response. Full range sound flows from both ends. Perfect for hi-fi, radio, auto rear seat, TV, etc. Tucks away anywhere—behind sofa, under table, in bookcase—or mounts easily on ceiling, headboard, etc., wherever desired. 12" long, 3 3/8" dia. With 12 foot cord. Shpg. wt. 5 lbs. **\$4.95**

No. 34A276. Import Special **\$4.95**



## 4-INCH PM SPEAKER IN WOOD BAFFLE

HANDY MIDGET SIZE—MOUNTED AND READY TO USE

Finished 2-tone natural wood miniature cabinet, closed at rear. Contains full 4" speaker with heavy magnet. 3.2 ohm V. C. Fine for intercom, remote or chairside TV-radio extension. A dandy speaker for code practice, short wave listening, audio experimenting of all kinds. Built-in two prong jack and plug for quick connection. 5 1/4" W, 3 1/4" D, 5 1/2" H. Shpg. wt. 2 lbs. **\$3.27**

No. 22B300. Import Special **\$3.27**

## CEILING-WALL SPEAKER IN FLUSH MOUNTING BAFFLE

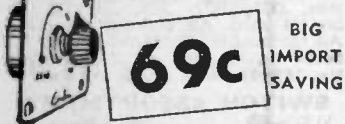


**\$5.95**

Pipe music from radio, hi-fi, etc. to any room of the house, office, plant, etc. easily and economically. Heavy duty 6 1/2" speaker is premounted in beautiful white enameled baffle that flush mounts—no cutouts necessary—to ceiling or wall. 9 1/2" dia., 2 1/2" deep. 8 ohm imp. Special import value. No. 22B324. **\$5.95**

Special Each **\$5.95**

## REMOTE SPEAKER FADER CONTROL



**69c**

BIG  
IMPORT  
SAVING

Controls both speakers, main and remote from one location. Fine for Hi-Fi, TV, Intercom, PA, etc. 2 1/8 x 2 1/8" gold tone mounting plate. Requires 3/4" depth behind panel. No. 17A604. **3 Lots, 59c**

Special Each **69c** Each **59c**

## 4-Prong CONNECTOR SET



**99c**

10 SETS  
EACH SET WORTH  
OVER 40c

Black bakelite polarized plug and matching socket with 3 ft. 4-conductor cable attached. Very high quality. Stranded wire leads, color coded size 18 thermoplastic insulated, end stripped and tinned. Handy for dozens of uses—stereo speaker attachments, power supplies, test cords, quick wire disconnects, etc. A steal at B-A's low bargain price. Buy plenty. No. 18A840. **100 Sets \$8.95**

10 Sets For **99c** For **8.95**



**99c**

100 FT.

## TWISTED PAIR WIRE

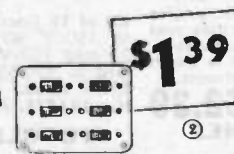
Ideal for speaker installations, also for intercoms, door bells and general hook-up needs. Stranded tinned copper, size 22, plastic insulated cotton wrapped color coded conductors.

No. 28193. Wt. 8 lbs. Per 1000 ft. **100 Ft. 99c** For **8.75**



**\$1.96**

①



**\$1.39**

②



**\$1.96**

③

### ① HIGH-EFFICIENCY LEVEL CONTROLS (L-PADS)

For adjusting and matching the listening levels of 2 or more speakers used in a multiple speaker system. Matt silver and black 2 1/2 x 2" panel plate with black plastic contour knob. Mounts in panels up to 3/4".

No. 17B325-8 Ohm. Special Import Value **\$1.96**

No. 17B327-16 Ohm. Choice Net Each **\$1.96**

### ② MULTIPLE SPEAKER SWITCH For Up to 6 REMOTE SPEAKERS

For centralized "on-off" control of up to 6 remote speakers used in a hi-fi, PA, or intercom system. 3 1/2" W. x 2 5/8" H. gold tone mtg. plate with 6 SPDT slide switches. Requires 1 1/8" behind panel.

No. 17A685. Special Each **\$1.39**

### ③ MULTIPLE EXTENSION SPEAKER SELECTOR SWITCH

For use of up to three extension speakers. Permits using each speaker individually, any combination of two or all three at once. Brushed brass 2 3/4 x 4 1/2" plate fits standard AC outlet box or can be flush mounted in wood cabinets etc. Depth behind panel 1 1/4".

No. 17A686. Special Each **\$1.96**

## MULTIPLE JACK STRIP

10 standard phono type jacks, ceramic insulated, mounted on fibre strip. Fine for speakers, inputs, hi-fi systems, etc. Completely isolated. 4 1/4 x 1 1/2" wide.

No. 18A394. **10 Lots, 35c**

Special Each **39c** Each **35c**



**99c**

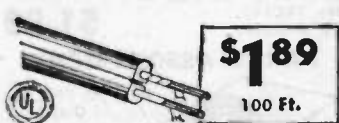
100 FT.

## SMALL PARALLEL 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. 2C333. **1000 Ft. 99c** For **8.75**

Per 100' **99c** For **8.75**



**\$1.89**

100 Ft.

## 18/2 PARALLEL CORD

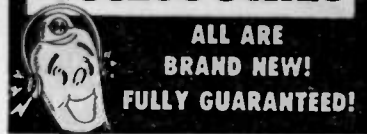
Highest grade, extra flexible brown all rubber parallel cord with size 18 conductors. Fine for speaker hookups, AC extensions, etc.

No. 2A49. **\$1.89** 1000 Ft. **\$14.95**

100 Ft. For **1.89** For **14.95**

# YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

## SPEAKERS & ACCESSORIES



ALL ARE  
BRAND NEW!  
FULLY GUARANTEED!

## SAVE OVER 50% ON TOP QUALITY

### ALNICO V PM SPEAKERS



ALL HAVE 3-4  
OHM VOICE COIL

MIDGET 2", 1 Oz. Magnet.  
No. 22B75. **\$1.29** 10 Lots, **\$1.09**

Special Each **1.29** Each **1.09**

MIDGET 3", 1.47 Oz. Magnet.  
No. 22B74. **\$1.39** 10 Lots, **\$1.19**

Special Each **1.39** Each **1.19**

POPULAR 4", .68 Oz. Magnet.  
No. 22B280. **\$1.19** 10 Lots, **99c**

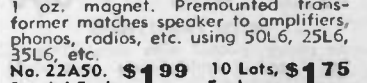
Special Each **1.19** Each **99c**

NORELCO HI-FI 3-INCH  
.6 oz. magnet. Range 240-12,000 cps.  
Type AD1300.  
No. 22A85. **\$1.29** 10 Lots, **\$1.09**

Special Each **1.29** Each **1.09**

NORELCO HI-FI 8-INCH  
2.75 oz. magnet. Rated 6 watts.  
Range 70-10,000 cps. Reg. \$9.90.  
No. 22A222. **\$2.99** 10 Lots, **\$2.59**

Special Each **2.99** Each **2.59**



**\$1.99**

AT LEAST A  
\$4.00 VALUE

## 5-INCH PM SPEAKER WITH OUTPUT TRANSFORMER

Heavy-duty Alnico V PM speaker with 1 oz. magnet. Premounted transformer matches speaker to amplifiers, phonos, radios, etc. using 50L6, 25L6, 35L6, etc.

No. 22A50. **\$1.99** 10 Lots, **\$1.75**

Special Each **1.99** Each **1.75**

## 8 WATT PAGING AND PA SPEAKER FOR OUTDOOR AND INDOOR



**\$12.95**

SPECIAL IMPORT  
VALUE

Waterproof, rustproof, shockproof—really rugged to withstand outdoor abuse. Driver unit enclosed within the horn. Special designed diaphragm withstands up to 30% power input overload. Frequency response 380 to 7000 cps. Dispersion 120°. Impedance 8 ohms. Size only 6 1/4" long with 6" dia. horn opening. Blue hammertone. With swivel mtg. bracket. Shpg. wt. 3 lbs.

No. 22A88. Special Each **\$12.95**

## WALL-MOUNTED L-PADS

Speaker control on brass wall plate to fit standard box. Has closed circuit jack for additional speaker.

No. 22A384. Specify 8 or 16 ohm. **\$2.95** Each



# YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

## POPULAR ASSORTMENTS



ALL ARE BRAND NEW! FULLY GUARANTEED!

SAVE ON SEE-THRU PARTS CABINET

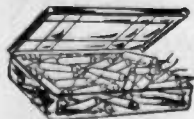


\$12.00 VALUE!  
**\$5.99**

The perfect way for storing small items and parts. Crystal clear heavily molded plastic drawers, 5 3/4" L x 2 1/8" W x 1 1/4" D, are spillproof and divide into several compartments with removable dividers included. Sturdy steel gray enamel finished cabinet, size 9 1/8" x 13 1/8" x 6 1/4" D with 24 drawers. B-A Special Value compares with units usually selling for over \$12.00 list.

No. 40B96. Special Each **\$5.99**

### CLEAR PLASTIC BOXES



ONLY **39c**

Handy for condensers, resistors, switches, and all types of small radio hardware. Size 7x3 1/2 x 1 3/4". With hinged lid.

18A1268. 10 Lots, 36c Each. **36c**

### WITH PARTITIONS

As above, except with compartments for keeping small items separated. Size 8 1/4 x 4 1/4 x 1 1/4".

No. 16A398. 6 Lots, 49c Each. **49c**

### KING-SIZE TACKANAIL FIX-IT KIT OVER 700 PIECES



**98c**

16 DIFFERENT ITEMS

### IN HINGED PLASTIC BOX WITH COMPARTMENTS

A handy kit to have around shop or home. Includes approximately: 50 thumb tacks; 18 flat head wood screws, 3/4"x6 and 1"x8; 130 3/4"x17 wire brads; 120 3/4"x17 wire nails; 92 #9 double-pointed coppered tacks; 40 #43 brass-plated furniture nails; 76 #6 1/2" carpet tacks; 80 larger nails and brads in 6 sizes; and 140 3/8" brass plated linoleum binding nails.

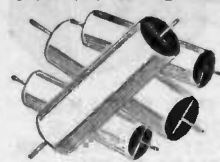
No. 18C317. Per Ass't. **98c**

BUY B-A ASSORTMENTS FOR THE GREATEST SAVINGS ANYWHERE!

# BUY ASSORTMENTS WITH CONFIDENCE! EVERY PIECE BRAND NEW - PERFECT

B-A quantity purchases bring them to you at worthwhile savings. In many instances the value of one piece alone is worth more than the price shown for the complete assortment.

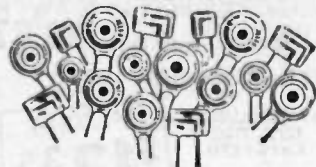
### 36 MOLDED PLASTIC TUBULAR CONDENSERS



\$11.70 LIST VALUE ONLY **\$3.88**

High quality, compact, rugged to withstand high temperature and high peak voltage in TV, radio, etc. 4 each .001, .002, .005, 6 each .01, .02, .05, .1; all 600 volts. No. 18A263. Kit of 36... **\$3.88**

### MITE SIZE CONDENSERS DISC CERAMICS



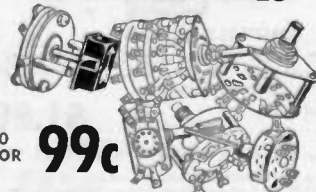
25 Assorted top quality midget size disc ceramics in most needed capacities. Just right for today's miniaturization. Assortment worth at least \$3.75 regular. No. 18A323. 25 Assorted... **99c**

### TWIST-TYPE ELECTROLYTICS



Ten Assorted, including both singles and duals, in popular capacities and voltages. All new, fully guaranteed. A terrific value. One or two is worth the price of the entire assortment. No. 18B63. 10 Assorted... **\$2.99**

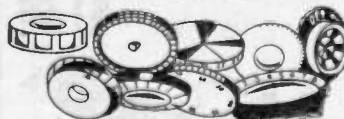
### ROTARY SWITCHES



10 FOR **99c**

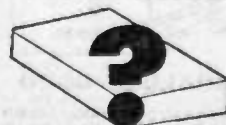
Assortment of Ten—any one of which is worth more than the price of the lot. Anyone experimenting or building will find good use for all. No. 18A436. Ass't. of Ten... **99c**

### 50 TV KNOBS—HANDY FOR REPLACEMENT



50 different types including concentric, channel selectors, tuning, etc. Valuable for service work. Use of 2 or 3 worth the cost of the entire kit. No. 18C312. 50 Assorted... **\$1.99**

### PARTS ASSORTMENT



50 PIECES ONLY **99c**

Consists of a mixture of various type Condensers, Resistors, Switches, etc., as in assortments on this page. A real Surprise Package. No. 17C371. 50 Pieces... **99c**

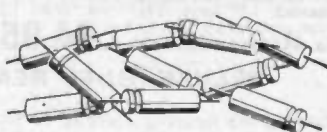
### 100 MOST NEEDED INSULATED RESISTORS



\$11.25 NET VALUE ONLY **\$2.99**

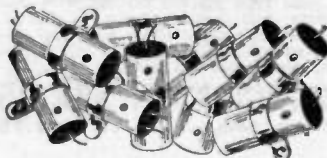
Highest quality insulated resistors in popular resistances. All American made, mostly small types by AB, IRC, Stackpole, etc. Includes 75-1/2 W, and 25-1 W. No. 19B796. Ass't. of 100... **\$2.99**

### 10 SUB-MINIATURE ELECTROLYTICS



Ultra-small hermetically sealed condensers so essential for transistor work. Includes popular capacity values—6, 10 and 15 V. ratings. Regular net value each condenser at least 73c. No. 18C337. 10 Assorted... **\$1.99**

### TUBULAR ELECTROLYTICS



Kit of 10 finest quality, 1 ea. 40 mfd @ 150 V, 40 mfd @ 450 V; 2 ea. 20 mfd 150 V, 8 mfd @ 450 V, 20 mfd @ 450 V; 50/30 mfd @ 150 V. \$8.85 value. No. 18A371. Ass't. of 10... **\$4.35**

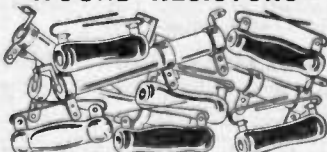
### TOGGLE SWITCHES



7 ASSORTED **\$1.99**

7 Assorted SP and DP, positive and momentary by HGH, Cutler Hammer, Carling, etc. Giant savings—with regular values to 90c each. No. 18B494. 7 Assorted... **\$1.99**

### 10 TO 20 WATT WIRE WOUND RESISTORS



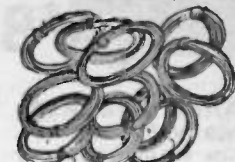
10 Assorted—Top quality vitreous enameled porcelain type by Ohmite, etc. All usable resistance values. 2 or 3 pays for all 10. No. 18A973. 10 Assorted... **\$1.29**

### MICA CONDENSERS



35 Assorted popular capacities, some silver. All top quality with regular values to 25c each. A real terrific buy, over \$5.00 worth. No. 18B331. Ass't. of 35... **99c**

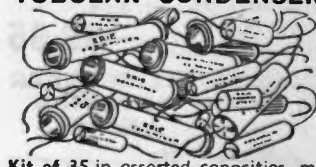
### 250' Plastic Insulated HOOK-UP WIRE



10 COILS ONLY **\$1.88**

10 Coils, Assorted Colors high quality thermoplastic insulated hook-up wire. All size 20 stranded copper wire in popular colors... red, black, green, blue, yellow, etc. 2A81. Ass't. of 250 Ft... **\$1.88**

### 35 MIDGET CERAMIC TUBULAR CONDENSERS



Kit of 35 in assorted capacities, minimum voltage 500 volt DC. Includes both zero and negative temperature coefficients. Very high grade capacitors at a fraction of regular cost. No. 18B332. 35 Assorted... **99c**

### 25 PAPER TUBULAR CONDENSERS



25 Assorted in most needed capacities. .001, .002, .005, .01, .02, .05 and .1 mfd. All 600 volt or more. All top quality, clean and perfect far below regular cost. No. 18B493. Ass't. of 25... **\$1.99**

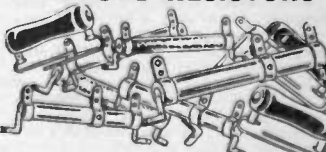
### SWITCH ASSORTMENT



10 FOR **\$1.39**

10 Assorted. Toggles, push-buttons, slides, and even expensive micro-switches. Use of 1 or 2 switches pays for the whole lot. No. 18A935. 10 Assorted... **\$1.39**

### 20 TO 100 WATT WIRE WOUND RESISTORS



10 Assorted popular vitreous enameled types, 3 each 20 watt fixed, 25 and 50 watt adjustable, and 1-100 watt adjustable. No. 18B862. 10 Assorted... **\$1.99**

### VOLUME CONTROLS



5 Assorted standard types with 1/4" shafts. All popular resistance values including 1/2 and 1 meg. One with switch. Over \$6 worth. No. 18C289. Ass't. of 5... **\$1.49**

**YOU SAVE ON THESE EVERYDAY**  
HANDY BIG ASSORTMENT  
**SCREWS & HEX NUTS**



**\$3.29**

Always needed  
small hardware

Consists of 100 each 4-40x1/2" and 6-32x1/4" RH machine screws; 1/4" dia. 4-40, 6-32 and 8-32 hex nuts; 50 each 6-32x3/4" and 8-32x1/2" RH machine screws and 75 No. 6x1/2" sheet metal screws.  
No. 11A498. Per Assmt. . . . . **\$3.29**

**RADIO HARDWARE**



**\$1.15**

Nuts, washers, grommets, springs, clamps, eyelets, screws, etc. A part to fill practically any occasional need. Very handy for workshop or tool box. Over 600 pieces contained in a clear plastic box.  
No. 11A335. Net Each. . . . . **\$1.15**

**TUBE SOCKETS**



25 FOR **99c**

25 Ass't. Top quality, most needed tube and transistor sockets. Includes plenty of octals, 7 and 9 pin miniatures plus latest transistor and printed circuit types. A fabulous value, worth over \$4.00.  
No. 18B492. Per Assmt. . . . . **99c**

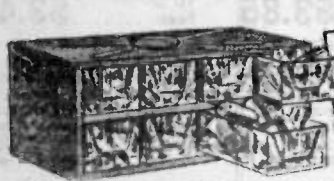
**TERMINAL STRIP ASS'T.**



25 Assorted **49c**

25 Assorted popular types in various lengths. Always needed by everyone who builds or repairs.  
No. 18B9. 25 Pieces. . . . . **49c**

**CHEST FULL OF CONDENSERS**



LIST VALUE  
OVER \$60.00  
**\$9.99**

155  
Condensers  
PLUS  
METAL  
STORAGE  
CABINET

A B-A treasure chest value! Handiest, most complete deal of its type available anywhere! Contains the condensers most needed in everyday electronics work spilling over in handy metal storage unit included. Every piece top make. All at a fraction of regular price. Your average cost per condenser less than 7c and the cabinet is free. Just look at what you get: 10 Tubular Electrolytics, both single and duals, 35 Molded Tubulars, 400 and 600 volts in most popular capacities; 50 Tubular Ceramics; 25 Disc Ceramics; and 35 Midget Micacs. 155 pieces total, all very useable values. Heavy gauge steel storage unit with "see-thru" clear plastic drawers measures 12 1/2" wide, 4" high, 6" deep. Regular net value cabinet alone \$3.98. Shpg. wt. 7 1/2 lbs.  
No. 18A181. COMPLETE KIT SPECIAL EACH. . . . . **\$9.99**

**CHEST FULL OF RESISTORS  
225 RESISTORS PLUS METAL STORAGE CABINET**

Another B-A fabulous offer, the perfect companion to the condenser deal above. Everyone will want a pair of these sensational money savers. Just a glance at regular prices is proof enough of the unmatched value! Average cost per resistor less than 4 1/2c and the cabinet is free. Here's what you get: 150-1/2 Watt and 50-1 Watt Insulated Resistors in most popular resistance values. All latest, small types by IRC, Stockpole, etc.; 15-10 Watt, 5-20 Watt, 3-25 Watt and 2-50 Watt vitreous enameled porcelain wire wounds including both fixed and adjustable types. 225 pieces total—all brand new, fully guaranteed. Includes Metal Storage Unit, as with above. Shpg. wt. 6 lbs.  
No. 18A182. COMPLETE KIT SPECIAL EACH. . . . . **\$9.99**  
Ex'tro Cabinets. **\$3.98**  
No. 20A956. Type V-8 . . . . .

**PLASTIC & VARNISHED CAMBRIC ASSORTED SPAGHETTI**



**69c** 60 FT.

A fine lot of assorted colors and sizes high grade extruded plastic and cambric tubing in 3 ft. lengths. Always handy for countless needs . . . and you get it at a fraction of regular value.

No. 18A284. **69c**  
Per 60 Ft. Lot . . . . .

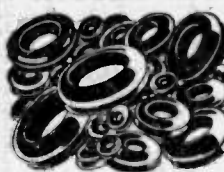
**ASSORTED LUGS**



100 PIECES  
IN METAL CAN  
**69c**

Handy metal can with a wide assortment of popular types of lugs.  
No. 18A1144.  
Approx. 100 Pieces in Can. . . . . **69c**

**RUBBER GROMMETS**



ASST.  
APPROX.  
50  
**69c**

High quality, tough black rubber. Approx. 50 pieces in popular sizes to fit holes from 1/4 to 3/8" dia. in metal panels. Big Savings!  
No. 18A509.  
Per Assortment, Special. . . . . **69c**

**PIN PLUGS AND JACKS**



**95c**  
10 SETS  
(20 pieces)

RCA type pin plug and jack so popular for Phono, Recorder, Auto Radio or anywhere a single pin plug and jack is needed.  
Includes 10 sets.  
No. 17B95. Per Ass't. . . . . **95c**

**NEEDED ITEMS!  
HOT VALUE! BARGAIN  
WIRE ASSORTMENT**



250 FT.

**99c**

Highest quality thermoplastic insulated tinned copper #22 stranded hookup wire in 5-50 ft. coils, assorted colors.  
A terrific buy, regular value at least \$2.33.

No. 2A215. 250 Ft. Ass't. . . . . **99c**

**2 LBS. OFTEN NEEDED  
SELF-TAPPING SCREWS**

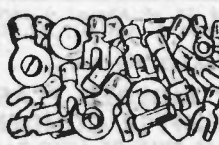


100'S OF  
PIECES

**99c**

Handiest hardware assortment you'll buy! A big variety of sizes and lengths in Hex, Phillips, Round, etc. — practically all head styles.  
No. 11B385. 2 Lb. Ass'tmt. . . . . **99c**

**POPULAR  
SOLDERLESS TERMINALS**



100  
ASSORTED

**\$1.39**

100 Assorted most popular types and sizes as used with the Amp Hand Tool shown on page 56. Includes ring tongues, slotted tongues, splice connectors, etc. An assortment that will pay its way many times.  
18B742. Per Ass't. of 100. **\$1.39**

**BUNDLE OF SPAGHETTI**



24 PCS. 9-IN. LONG  
**23c**  
A neat bundle of 24 pieces, each 9" long, varnished high grade tubing in assorted popular sizes.  
No. 18A69. Per Ass't. . . . . **23c**

**JIM ROWLAND  
ASSORTMENT**

**? VALUE \$1.95**

New Modernized  
Version . . . Greater  
Than Ever



Jim Rowland, our Boss warehouseman has won thousands of friends for B-A through the sale of his very popular clean-up assortment. Jim now tells us the deck has been cleared of most of the bulky, less expensive items that contributed to the total weight of the assortment. So, we got our heads together . . . tried to determine just what would bring home the bacon now . . . Jim said, "cut the weight, but triple the quality". We went along, so here it is, better than ever—3 lbs. of usually costly components—resistors, condensers, switches, volume controls, plugs, jacks, wire, etc., etc., etc.—all in a package to amaze you. A truly tremendous value at only a very fraction of the original cost. Try one and if you're not happy —blame Jim but we will give you your \$1.95 back. Shpg. wt. 3 lbs.  
No. 3B183. ? Value  
Jim Rowland Assortment. **\$1.95**

**YOU SAVE \$\$\$  
ON THESE SPECIAL  
BARGAINS**

**POPULAR  
ASSORTMENTS**

**ALL ARE  
BRAND NEW!  
FULLY GUARANTEED!**

**INSULATED PHONE TIP JACKS**

5 BLACK  
5 RED

**39c**



Highest quality insulated jacks accept standard phone tip plugs as used on test leads, headsets, etc. Always needed for building, experimenting, etc. Buy plenty now at B-A's big price saving and have on hand for future as well as present projects. Molded 1/2" bakelite head, brass spring, speedi-clip mounting. Fits 1/8" hole in metal or other panels up to 1/4" thick. Mfg. list value \$1.10.  
No. 18A370. 5 Red & 5 Black. **39c**  
Per Package . . . . .

**No. 20 TINNED COPPER WIRE**

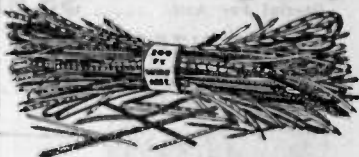
BIG **24c**  
SAVING



Always handy to have around for ready use. Fine for space wound coils, "buss" wire, antenna wire, etc.  
18A395. 10 Spools **24c**  
Per Spool. . . . . Each. . . . . **20c**

**200-FT. WIRE KIT**

PREVIOUS SELL-OUT **99c**  
BACK AGAIN!



CUT-STRIPPED, AND TINNED BOTH ENDS . . . READY TO SOLDER Saves time, work, and \$\$\$ too! Highest quality thermoplastic insulated hookup wire, machine cut, stripped and tinned, ready for instant use. No more fumbling around with cutters, strippers and the like. Simply pick the length and size needed and solder. Consists of several hundred lengths—4 inch to 2 ft.—in assorted colors, both solid and stranded, sizes 20 to 22. About the handiest wire assortment ever . . . at a fraction of its regular value. Shpg. wt. 1 lb. **99c**  
18B316. Approx. 200 Ft., Ea. . . . .

**INTER-CONNECTING  
CABLE KIT  
FOR HI-FI, INTERCOM, ETC.**

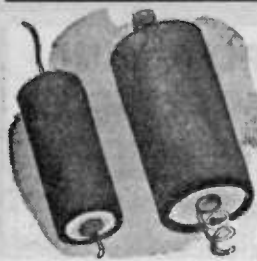


10 Plugs Included **\$1.79**  
Worth many times our low price.  
100' Highest Quality Vinyl Jacketed Shielded Cable Plus 10 RCA Type Plugs. A real good buy! Use of only one or two 6' to 12' cables will pay for entire kit. Extra flexible size 22 tinned copper stranded, thermoplastic insulated wire with tinned copper braid and tough vinyl jacketed overall. Perfect for hookup of record player, tuner, speaker, etc., in hi-fi installations, for intercom, telephone, signal system, etc.  
No. 17C812. Complete Kit **\$1.79**



# STOCK UP AT BA'S LOW PRICES

EVERY ITEM FACTORY-FRESH PRODUCTION OF LEADING MANUFACTURERS!



**COMPACT TUBULAR ELECTROLYTICS AS LOW AS**

**33c**

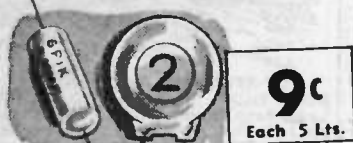
EACH, 10 LOTS

All single capacity units are hermetically sealed in aluminum tubes, covered with red kraftboard insulating jackets—tinned copper leads—dual capacitors have common negative.

Cap. Mfd.	Wkg. V. DC	Size Inches	Stock No.	Net Ea.	10 at Each
8	450	3/4x1 5/8	17A225	.40	.36
8-8	450	7/8x2	17A234	.62	.56
16	450	1x2	17A232	.49	.45
20	450	1x2	17B254	.54	.49
20-20	450	1x2 1/2	17A231	.90	.81
30	450	1x2 3/8	17A233	.59	.54
40	450	1x2 1/2	17B286	.65	.59
80	450	1 1/2x2 1/2	17B238	1.06	.96
20	150	5/8x1 5/8	18A634	.36	.33
30	150	3/4x1 5/8	15A412	.40	.36
40	150	3/4x2	15A413	.44	.40
20-20	150	3/4x1 5/8	17A235	.49	.45
30-30	150	7/8x1 5/8	17A440	.54	.49
40-20	150	7/8x1 5/8	18A632	.54	.49
40-40	150	7/8x2	15A416	.57	.52
50-30	150	7/8x2	17A441	.49	.45
10	50	1/2x1 5/8	15A419	.33	.30
25	50	1/2x1 5/8	17B287	.36	.33
50	50	5/8x1 5/8	17B288	.39	.36
100	50	3/4x1 5/8	17B251	.54	.49
10	25	1/2x1 1/8	17B239	.35	.33
25	25	1/2x1 5/8	15A418	.38	.34
50	25	5/8x1 5/8	17B252	.39	.35
100	25	5/8x1 5/8	17B240	.49	.45
40-30	150	1x3	15A941	.69	.62

Kit of 15 of above: 2-8 mfd, 1-20 mfd, 2-40 mfd @ 450 V; 2-20 mfd, 1-40 mfd, 2-50/30 mfd, 1-40/30/20 mfd @ 150 V; 1-25 mfd @ 50 V; 1-10 mfd, 2-50 mfd @ 25 V.  
No. 18A968. Special Per Asst. **\$5.99**

## MITE-SIZE CERAMIC CONDENSERS



**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.

Minimum order 5, not assorted.

Stock No.	Cap. Mfd.	5 Lts. Each	100 Lts. Each
15A1199	.000005	9c	8c
15A1200	.00001	9c	8c
15A1201	.00002	9c	8c
15A1202	.00005	9c	8c
15A1203	.0001	9c	8c
15A1204	.0002	10c	9c
15A1205	.00047	10c	9c
15A1206	.001	10c	9c
15A1207	.002	15c	14c

Stock No.	Cap. Mfd.	5 Lts. Each	100 Lts. Each
15A1210	.00001	9c	8c
15A1219	.00002	9c	8c
15A1211	.000047	9c	8c
15A1212	.0001	9c	8c
15A1213	.00047	9c	8c
15A1214	.001	9c	8c
15A1215	.002	9c	8c
15A1216	.005	9c	8c
15A1217	.01	9c	8c
15A1218	.02	13c	11c

56 Assorted From Above: Consists of 4 each Tubular types plus 2 each Disc types, all as shown above.  
No. 15A397. Special, Per Asst. **\$4.38**

**MOLDED PLASTIC TUBULAR CONDENSERS AS LOW AS**

**8c**

EACH, 10 LOTS

Top quality plastic molded compact tubular. Compact, yet with the rugged construction needed to withstand the high temperature in TV, Radio, Etc.

Mfd. Cap.	Volts	Stock No.	Price Each	10 at Each
.01	400	18A761	.10	.09
.05	400	18A762	.12	.11
.1	400	18A763	.16	.15
.25	400	18A764	.24	.22
.5	400	18A765	.42	.39
.001	600	18A729	.09	.08
.002	600	18A730	.09	.08
.005	600	18A731	.09	.08
.01	600	18A732	.10	.09
.02	600	18A733	.11	.10
.03	600	18A715	.14	.13
.05	600	18A734	.15	.14
.1	600	18A735	.23	.21

Kit of 36 of Above: 4 each .001, .002, .005; and 6 each .01, .02, .05, .1 all 600 volt.  
No. 18A263. Per Asst. **\$3.88**

## MOLDED PLASTIC BUFFER CONDENSERS

FILLS BULK OF AUTO RADIO NEEDS

Compact, top quality. Withstands high heat. Oil impregnated. 1600 Wkg. V. DC.

Cap. Mfd.	Size Inches	Stock No.	Net Each	10 Lots, Each
.002	3/8x1 1/4	18A970	22c	20c
.003	1/2x1 1/4	18A755	22c	20c
.004	1/2x1 1/4	18A756	22c	20c
.005	1/2x1 1/4	18A736	22c	20c
.006	1/2x1 5/8	18A757	22c	20c
.007	1/2x1 5/8	18A737	24c	22c
.0075	1/2x1 1/2	18A971	24c	22c
.008	1/2x1 5/8	18A758	24c	22c
.01	1/2x1 5/8	18A738	24c	22c
.02	5/8x1 1/8	18A759	24c	22c
.03	5/8x1 1/8	18A760	24c	22c

Kit of 15 of above: 1 each .003, .004, .005, .006, .01, .02, .03; 2 each .002, .007, .0075 and .008 all 1600 V.  
No. 18A766. Spec. Per Asst. **\$2.97**

**TWIST-PRONG ELECTROLYTICS AS LOW AS**

**59c**

EACH, 10 LOTS



Hermetically sealed in aluminum cans.

Mfd. V. DC	Size In.	Stk. No.	Each	10, Ea.
10 450	1x2	18B773	.68	.59
20 450	1x2	18B774	.75	.66
30 500	1x3	18A910	.94	.82
40 450	1x3	18B775	.94	.82
80 450	1 1/2x2 1/2	18B776	1.39	1.21
100 150	1x2	18A917	.79	.68
150 150	1x3	18A918	.88	.76
300 150	1 1/2x3	18A919	1.27	1.12
10-10 450	1x2	18B777	.87	.75
20-20 450	1x3	18B778	.99	.88
30-30 450	1 1/2x2	18A920	1.29	1.14
40-40 450	1 1/2x3	18B779	1.49	1.32
20-20 150	1x2	18B780	.75	.66
40-40 150	1x2	18A923	.82	.72
50-30 150	1x2 1/2	18B781	.82	.72
50-50 150	1x2 1/2	18B782	.87	.75
80-40 150	1x3	18A926	.91	.79
10-10-20*	1x3	18A927	.99	.89
20-20-20*	1 1/2x2 1/2	18A931	1.49	1.32
40-40-40*	1 1/2x3	18A932	1.89	1.65
80-40-20*	1 1/2x4	18A933	2.09	1.82
20-20-20-20*	1 1/2x3	18A934	1.69	1.45
40-30-20†	1x2	18A938	.94	.82
40-40-40†	1x2 1/2	18A940	.99	.86

\*450 V. DC

†150 V. DC



**TOP QUALITY PM SPEAKERS**

WITH ALNICO V HIGH EFFICIENCY MAGNETS

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 32A70 and 22B59 which are 6-8 ohm\* and 22A125 which is 45 ohm† for intercoms).

Size	Mog. Wt. Oz.	Illus.	Depth	Stk. No.	Each	10 @ Each	24 @ Each
2"	1.47	3	1 1/2"	22B76	\$1.99	\$1.88	\$1.71
3"	1.00	3	2 1/2"	22A235	1.79	1.63	1.49
4"	1.00	3	2 1/2"	22B77	1.65	1.55	1.41
4 1/2"	1.47	3	2 1/2"	22A125	1.99	1.80	1.65
4"	1.47	3	2 1/2"	22A124	1.80	1.70	1.55
5"	1.00	1	2 1/2"	22B78	1.75	1.65	1.51
5"	1.47	1	2 1/2"	22B79	1.95	1.79	1.62
5"	2.15	1	2 1/2"	22B316	2.35	2.19	1.99
6"	1.47	4	2 1/2"	22B81	2.25	1.99	1.85
6"	2.15	4	2 1/2"	22B82	2.69	2.49	2.31
8"	1.47	1	3 1/2"	22B48	2.75	2.49	2.29
8"	2.15	1	3 1/2"	22B52	2.99	2.79	2.45
8"	6.8	4	4"	22B59	5.95	5.39	4.89
10"	3.16	1	4 1/2"	33B71	4.39	3.99	3.51
12"	2.15	1	4 1/2"	34B166	4.35	3.95	3.55
12"	6.8	1	5 1/2"	32A70	6.95	6.35	5.84
4x6"	1.47	2	2 1/2"	22B80	2.25	1.95	1.75
5x7"	1.47	2	2 1/2"	22B62	2.69	2.49	2.19
6x9"	2.15	2	3 1/2"	22B53	3.29	2.99	2.65
6x9"	3.16	2	3 1/2"	22B83	3.59	3.29	2.89

## POPULAR TWIN CONE SPEAKERS FOR IMPROVED TONE AT AMAZING LOW COST

**DELUXE 8-INCH**

**\$3.85**

MFG. LIST \$8.55

**HIGH FIDELITY 8-INCH**

**\$7.95**

GIANT SAVING!



**DELUXE 8 INCH.** Superior quality replacement for TV, phonos, radios, etc., where better tone is desired. Heavy-duty 2.15 oz. Alnico V PM magnet. 3/4" voice coil. Imp. 3.2 ohms.

No. 22A149. Special Each **\$3.85** 10 @ **\$3.45**

**HIGH FIDELITY 8 INCH.** Perfect choice for hi-fi systems, background music installations, TV, radio, phono, replacement—anywhere a superb quality speaker is required. Accordion edge cone suspension plus high frequency whizzer cone provides amazing bass, clean crisp highs. Heavy 6.8 oz. magnet, full 1 1/2" voice coil handles 12 watts power. 8 ohm imp. Shpg. wt. 3 1/2 lbs.

No. 22A150. Special Each **\$7.95**

## DELUXE CHROME FINISH GRILLES

Grille	Each	10 @	24 @
① 4x6" Grille.	\$1.65	\$15.00	\$36.00
② 6x9" Grille.	\$2.37	\$23.70	\$56.88
③ 5x7" Grille.	\$2.10	\$21.00	\$50.40
No. 22B109. Each.	\$2.10	No. 22B108. Each.	\$2.65

FOR AUTO REAR SEAT SPEAKERS, INTERCOMS, PA, ETC.

## REMOTE SPEAKER SWITCH KIT

For switching between dual speakers such as auto rear seat and front seat speakers; TV, radio, PA remote speaker installations, etc. Permits operation of either speaker separately or both together. Kit complete with mtg. hardware. **88c**




**VARI-CONTROL KIT.** Regulates volume in both front and rear speakers allowing mixing as desired, or operates each speaker separately. Complete with mounting hardware. No. 14B874. Each **\$1.39**

# on ALWAYS NEEDED COMPONENTS

ALL TOP QUALITY! FULLY GUARANTEED BY BOTH BA AND THE MAKER!

AS LOW AS  
**10c**  
Each  
ACTUAL SIZE



## HUGE SAVINGS ON RESISTORS! 1/2-WATT AND 1-WATT, 10% TOLERANCE

Finest quality molded insulated resistors. Sorry we can't mention the famous makers, but be assured these are brands you will readily recognize as the leaders in the field. All resistors are color coded, conform 100% to RETMA code, Jan, and MIL-R-11 specifications. Perfect for service work, construction, or industrial needs at substantial savings.  
Please specify resistance values when ordering.

Ohms	Ohms	Ohms	Ohms	Ohms	Meg-ohms	Meg-ohms	Meg-ohms
10	68	470	3300	22,000	0.15	1.00	6.8
12	82	560	3900	27,000	0.18	1.2	8.2
15	100	680	4700	33,000	0.22	1.5	10.0
18	120	820	5600	39,000	0.27	1.8	12.0
22	150	1000	6800	47,000	0.33	2.2	15.0
27	180	1200	8200	56,000	0.39	2.7	18.0
33	220	1500	10,000	68,000	0.47	3.3	22.0
39	270	1800	12,000	82,000	0.56	3.9	
47	330	2200	15,000	0.1 Meg	0.68	4.7	
56	390	2700	18,000	0.12 Meg	0.82	5.6	

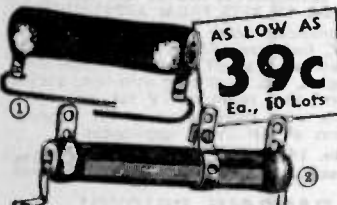
12A998 1/2-WATT 10 For **10c** (one-value) **59c** Net Each. \*100 For **\$4.95**

12A999 1-WATT 10 For **15c** (one value) **79c** Net Each. \*100 For **\$8.95**

\*Minimum of 10 per value.

Kit of 100 of above: Consists of 75—1/2 watt and 25—1 watt in most popular resistance values. No. 15B908. Special Per Ass't. **\$4.95**

AS LOW AS  
**39c**  
Ea., 10 Lots



① 10 WATT FIXED—1 3/4 x 5/16"

5	100	500	3000	20,000
10	150	1000	5000	25,000
20	200	2000	10,000	50,000
50	300			

## BIG SAVINGS! VITREOUS ENAMELED WIRE-WOUND RESISTORS

In most needed resistance values.  
Finest quality resistors wound on mill grade steatite forms. Silver soldered connections between wire and lug. Please specify Stk. No. and resistance.

② 25 WATT ADJ.—2x9/16"

5	100	1000	5000	15,000
25	300	2500	10,000	25,000
50	500			

No. 26A121 Net Ea. 10 Ea.

5 to 5000 Ohm	<b>\$.44</b>	<b>\$.39</b>
10,000 Ohm	<b>.54</b>	<b>.45</b>
20,000 Ohm	<b>.59</b>	<b>.49</b>
25,000 Ohm	<b>.64</b>	<b>.53</b>
50,000 Ohm	<b>.71</b>	<b>.59</b>

No. 26A124 Net Ea. 10 Ea.

5 to 5000 Ohm	<b>\$1.07</b>	<b>\$.89</b>
10,000 to 25,000 Ohm	<b>1.25</b>	<b>1.04</b>

③ 20 WATT FIXED—2x7/16"

5	100	500	5000	20,000
25	200	1000	10,000	40,000
50	300	3000	15,000	

④ 50 WATT ADJ.—4x9/16"

50	500	2000	5000	25,000
100	1000	3000	10,000	50,000

⑤ 10 WATT ADJ.—1 3/4 x 5/16"

10	50	500	1500	5000
25	100	1000	3000	10,000

No. 26A125 Net Ea. 10 Ea.

5 to 5000 Ohm	<b>\$1.39</b>	<b>\$1.18</b>
10,000 Ohm	<b>1.46</b>	<b>1.22</b>
25,000 Ohm	<b>1.72</b>	<b>1.43</b>
50,000 Ohm	<b>1.80</b>	<b>1.50</b>

IRC AXIAL-LEAD POWER  
AS LOW AS  
**19c**  
Each, 10 Lots



⑥ 100 WATT ADJ.—6 1/2 x 3/4"

10	100	1000	10,000	50,000
50	500	5000	25,000	100,000

Precisely wound element sealed in ceramic case with axial wire leads for speedier installation. Compact size perfect for use in tight spaces. Can be installed flat against chassis and 2 or more stacked. Tolerance 10%.

No. 26A126 Net Ea. 10 Ea.

10 to 10,000 Ohm	<b>\$1.08</b>	<b>\$1.51</b>
25,000 & 50,000 Ohm	<b>2.29</b>	<b>1.91</b>
100,000 Ohm	<b>2.72</b>	<b>2.27</b>

## WIRE-WOUND RESISTORS

Please specify Stk. No. and resistance value.

\*Available 10 watt only.

5 WATT	10
26A135, Ea.	<b>25c</b> Each <b>19c</b>
100, Each	<b>15c</b>
10 WATT	10
26A136, Ea.	<b>36c</b> Each <b>27c</b>
100, Each	<b>22c</b>

AS LOW AS  
**35c**  
Each 10 Lots



## MIDGET VOLUME CONTROLS

Brand new, fully guaranteed, fresh production from one of the nation's leading producers. Highest quality controls at fantastic savings. Small size, 1/8" dia, with 3" long x 1/4" standard flatted shaft (can be easily cut to obtain necessary length). All are logarithmic taper as needed for both tone and volume.

LESS SWITCH

1/2 Meg. No. 18B708, Reg. Net 91c.	10 Lots, <b>40c</b>
1 Meg. No. 18B710, Choice Each	<b>49c</b> Each
WITH SPST SWITCH	
1/2 Meg. No. 18B709, Reg. Net 91c.	10 Lots, <b>59c</b>
1 Meg. No. 18B711, Choice Each	<b>69c</b> Each



## \$\$\$ IN SAVINGS FACTORY BOXED TUBES

Every tube is the product of a Nationally known Manufacturer—NAME BRANDED on Both Tube and Carton! First Quality, guaranteed for 12 months.

MINIMUM ORDER 10-TUBES . . .  
All of one type or assorted as you desire. All orders MUST specify OUR STOCK NUMBERS as given below—orders specifying tube types only will be shipped at prevailing prices for quantity ordered as shown on page 31.

Stk. No.	Tube Type	Optional List	Net Each	Stk. No.	Tube Type	Optional List	Net Each
27A82	OZ4	\$2.40	<b>\$1.01</b>	27A35	6CD6GA	\$5.80	<b>\$2.43</b>
27A1	1B3GT/1G3T	2.90	<b>1.21</b>	27A163	6CF6	2.55	<b>1.07</b>
27A2	1R5	2.70	<b>1.13</b>	27A111	6CG7	2.45	<b>1.03</b>
27A3	1U4	2.50	<b>1.05</b>	27A141	6CG8A	3.30	<b>1.38</b>
27A4	1U5	2.20	<b>.92</b>	27A85	6CL6	3.75	<b>1.57</b>
27A5	1X2B	3.20	<b>1.34</b>	27A143	6CM7	3.20	<b>1.34</b>
27A118	3BN6	3.05	<b>1.28</b>	27A144	6C08	3.30	<b>1.30</b>
27A159	3BZ6	2.35	<b>.98</b>	27A164	6CY5	2.75	<b>1.15</b>
27A106	3CB6	2.30	<b>.96</b>	27A165	6DE6	2.55	<b>1.07</b>
27A8	3V4	2.50	<b>1.05</b>	27A97	6DQ6B	4.15	<b>1.74</b>
27A120	4BC8	4.05	<b>1.70</b>	27A166	6E8A	3.15	<b>1.32</b>
27A121	4BQ7A	4.00	<b>1.68</b>	27A36	6J5	3.10	<b>1.30</b>
27A160	5A05A	2.20	<b>.92</b>	27A37	6J6A	2.80	<b>1.17</b>
27A125	5AT8	3.25	<b>1.36</b>	27A38	6K6GT	2.50	<b>1.05</b>
27A126	5BK7A	3.40	<b>1.42</b>	27A39	6L6GC	4.20	<b>1.76</b>
27A161	5BQ7A	4.05	<b>1.70</b>	27A40	6S4A	2.05	<b>.86</b>
27A127	5CG8	3.25	<b>1.36</b>	27A43	6SJ7	3.75	<b>1.57</b>
27A9	5U4GB	2.10	<b>.88</b>	27A44	6SK7	3.60	<b>1.51</b>
27A107	5UB	3.30	<b>1.38</b>	27A45	6SL7GT	3.50	<b>1.47</b>
27A10	5V4GA	3.50	<b>1.47</b>	27A46	6SN7GT8	2.60	<b>1.09</b>
27A11	5Y3GT	1.75	<b>.73</b>	27A47	6SQ7	3.30	<b>1.38</b>
27A12	6AB4	2.15	<b>.90</b>	27A48	6T8A	3.40	<b>1.42</b>
27A13	6AC7	4.90	<b>2.05</b>	27A49	6U8A	3.30	<b>1.38</b>
27A14	6AF4A	4.00	<b>1.68</b>	27A51	6V6GTA	2.15	<b>.90</b>
27A15	6AG5	2.75	<b>1.15</b>	27A52	6W4GT	2.40	<b>1.01</b>
27A16	6AG7	5.90	<b>2.47</b>	27A147	6W6GT	2.85	<b>1.19</b>
27A17	6AH4GT	3.45	<b>1.45</b>	27A54	6X4	1.65	<b>.69</b>
27A87	6AH6	4.70	<b>1.97</b>	27A55	6X5GT	2.10	<b>.88</b>
27A18	6AK5	4.20	<b>1.76</b>	27A86	6X8	3.15	<b>1.32</b>
27A19	6AL5	1.85	<b>.78</b>	27A167	7AU7	2.60	<b>1.09</b>
27A101	6AM8A	3.25	<b>1.36</b>	27A91	12AT6	1.85	<b>.78</b>
27A102	6AN8	3.70	<b>1.55</b>	27A57	12AT7	3.05	<b>1.28</b>
27A20	6A05A	2.15	<b>.90</b>	27A104	12AU6	2.15	<b>.90</b>
27A6	6A55	2.55	<b>1.07</b>	27A58	12AU7A	2.45	<b>1.03</b>
27A22	6AT6	1.90	<b>.80</b>	27A59	12AV6	1.65	<b>.69</b>
27A108	6AU4GTA	3.60	<b>1.51</b>	27A149	12AV7	3.40	<b>1.42</b>
27A84	6AU5GT	4.30	<b>1.80</b>	27A60	12AX4GTB	2.70	<b>1.13</b>
27A23	6AU6A	2.10	<b>.88</b>	27A61	12AX7	2.55	<b>1.07</b>
27A53	6AU8A	3.50	<b>1.47</b>	27A150	12AZ7	2.75	<b>1.15</b>
27A24	6AV6	1.65	<b>.69</b>	27A105	12BA4	2.85	<b>1.19</b>
27A109	6AW8A	3.70	<b>1.55</b>	27A62	12BA6	2.00	<b>.84</b>
27A25	6AX4GT	2.65	<b>1.11</b>	27A64	12BE6	2.15	<b>.90</b>
27A26	6BA6	2.00	<b>.84</b>	27A65	12BH7A	3.05	<b>1.20</b>
27A27	6BC5	2.45	<b>1.03</b>	27A168	12B0GTTB	4.45	<b>1.86</b>
27A132	6BC8	4.00	<b>1.68</b>	27A66	12BY7A	3.20	<b>1.34</b>
27A28	6BE6	2.20	<b>.92</b>	27A169	12D06A	4.20	<b>1.76</b>
27A29	6BG6GA	6.50	<b>2.72</b>	27A67	12SA7	3.95	<b>1.65</b>
27A31	6BH6	2.70	<b>1.13</b>	27A69	12SK7	3.60	<b>1.51</b>
27A30	6BJ6	2.60	<b>1.09</b>	27A70	12SN7GTA	2.70	<b>1.13</b>
27A94	6BK7B	3.40	<b>1.42</b>	27A71	12SQ7	3.30	<b>1.38</b>
27A95	6BL7GTA	4.15	<b>1.74</b>	27A170	17AX4GT	2.70	<b>1.13</b>
27A96	6BN6	3.15	<b>1.32</b>	27A171	19AU4GTA	3.45	<b>1.45</b>
27A32	6BQ6GTB	4.35	<b>1.82</b>	27A72	25B0GTTB	4.65	<b>1.95</b>
27A83	6BQ7A	3.95	<b>1.65</b>	27A73	25L6GT	2.35	<b>.98</b>
27A138	6BS8	3.75	<b>1.67</b>	27A75	35C5	2.15	<b>.90</b>
27A139	6BU8	2.80	<b>1.17</b>	27A76	35L6GT	2.40	<b>1.01</b>
27A162	6BX7GT	4.00	<b>1.68</b>	27A77	35W4	1.40	<b>.59</b>
27A110	6BZ6	2.25	<b>.94</b>	27A78	35Z5GT	1.85	<b>.78</b>
27A98	6BZ7	4.00	<b>1.68</b>	27A80	50C5	2.15	<b>.90</b>
27A33	6C4	1.85	<b>.78</b>	27A81	50L6GT	2.55	<b>1.07</b>
27A34	6CB6A	2.25	<b>.94</b>				

NOTE: List prices above are those suggested by the manufacturer.

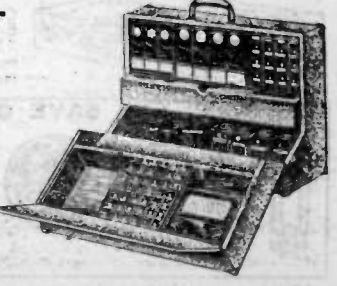
## NEW DELUXE TUBE & TOOL CARRYING CASE

Extra light and easy to handle. Holds over 200 tubes and necessary tools for most service needs. Compact, rugged, good looking, solid wood construction. Covered in washable plastic coated grey tweed fabric. Size 21" wide x 15" high x 8" deep. Shpg. wt. 12 lbs.

No. 40A238. Net Each **\$11.95**

When Ordered with 10 Tubes above. Net Each **\$8.95**

When Ordered with 20 Tubes above. Net Each **\$7.95**





# SAVE \$ \$ \$ ON B-A SPECIALS!

TOP QUALITY MAKES! FRESH PRODUCTION! FULLY GUARANTEED!



## TV PICTURE TUBES

FACTORY SEALED CARTONS  
GUARANTEED ONE FULL YEAR

Fully licensed under all applicable patents and manufactured in one of the nation's most modern plants under strictest continuous line quality control.

No Glass Trade Ins or other inconvenience necessary for B-A's "below the market prices." Safe arrival guaranteed via Railway Express (not mailable). All tubes F.O.B. Kansas City. Bold face type indicates Aluminized Face Plate.

Stk. No.	Type	Lbs.	Optional List	Net Each	Stk. No.	Type	Lbs.	Optional List	Net Each
8A50	10BP4A	7	\$36.75	<b>\$ 9.80</b>	8A70	21ALP4A/B	30	\$45.50	<b>\$21.73</b>
8A51	12LP4A	14	41.00	<b>10.19</b>	8A71	21AMP4A	30	45.75	<b>20.22</b>
8A52	14AJP4	14	40.50	<b>17.67</b>	8A89	21AP4	24	70.70	<b>24.89</b>
8A58	14XP4	14	38.90	<b>15.78</b>	8A72	21ATP4A	30	45.50	<b>21.73</b>
8A54	16GP4B	16	57.75	<b>16.34</b>	8A73	21AU/AVP4A	33	45.75	<b>22.37</b>
8A56	16KP/RP4A	21	38.75	<b>15.81</b>	8A90	21CBP4A	30	45.75	<b>21.73</b>
8A57	17AVP/ATP4A	17	39.25	<b>16.34</b>	8A95	21CEP4	25	49.25	<b>22.22</b>
8A58	17BP4A	22	37.25	<b>10.78</b>	8A102	21DA/CZP4	25	49.25	<b>22.22</b>
8A59	17BP4B	22	37.25	<b>13.33</b>	8A75	21EP4A	34	45.75	<b>16.30</b>
8A94	17BZ/PBR/CRP4	17	44.00	<b>20.81</b>	8A76	21EP4B	34	45.75	<b>18.25</b>
8A60	17CP4	17	57.25	<b>17.64</b>	8A77	21FP4A	34	45.75	<b>17.08</b>
8A99	17CWP4	13	44.90	<b>21.94</b>	8A78	21FP4C	34	45.75	<b>19.04</b>
8A100	17DK/DTP4	13	44.75	<b>21.94</b>	8A91	21MP4	24	73.40	<b>25.94</b>
8A101	17DQP4	13	44.90	<b>20.81</b>	8A80	21WP4A	29	47.25	<b>18.30</b>
8A61	17HP/RP4	22	37.25	<b>12.35</b>	8A81	21XP4A	29	47.25	<b>19.87</b>
8A88	17HP4B	22	37.25	<b>14.38</b>	8A82	21YP4	32	44.75	<b>20.22</b>
8A62	17LP/VP4	23	36.25	<b>14.83</b>	8A83	21YP4A	32	44.75	<b>21.66</b>
8A64	17QP4	23	37.25	<b>12.42</b>	8A84	21ZP4A	32	44.75	<b>18.98</b>
8A65	17QP4A	23	37.25	<b>14.50</b>	8A85	21ZP4B	32	44.75	<b>20.94</b>
8A105	19XP4	19	49.50	<b>22.20</b>	8A103	23CP/GP4	30	76.25	<b>42.46</b>
8A66	20CP/DP4A	28	46.75	<b>14.34</b>	8A104	24AEP4	42	65.75	<b>33.63</b>
8A67	20CP/DP4B	28	46.75	<b>17.15</b>	8A96	24AMP4A	35	71.75	<b>35.85</b>
					8A86	24CP4A	42	65.75	<b>31.99</b>
					8A87	24DP4A	42	65.50	<b>33.57</b>

## PICBOOST "DUZ-ALL" COMPLETE TV PICTURE TUBE SAVER

Works on either series or parallel filaments. Isolated windings correct filament-cathode "shorts". Variable control permits selection of exact amount of voltage boost needed. Controlled increase in very small steps stretches picture tube life many times that available with fixed voltage boosters. Fully enclosed in metal case 6 1/2" x 2 1/4" x 1 3/8" H. Mounts inside set. With instructions for simple plug-in installation. Shpg. wt. 2 lbs. No. 29A282. CBC model DUB. Mfg. list \$4.90. Ea. **\$2.88**

## PERMA-POWER TV TUBE RESTORER CORRECTS DOZENS OF PICTURE TUBE FAULTS

Simple cure for open cathode, heater to cathode short, open control grid, control grid to cathode short, low emission or combinations of the above. Works on electrostatic or electromagnet focus pix tubes, in series or parallel-wired filament circuits. Wt. 1 lb. No. 29B156. Model K-101. Mfg. list \$6.65. **\$3.90**

## ATR ELECTRONIC TUBE PROTECTOR DOUBLES OR TRIPLES TUBE LIFE

For TV (including picture tubes), Radio, Hi-Fi sets. Eliminates the initial voltage surge which occurs before the set warms up. Use on sets from 100 to 300 watts. Simple, plug-in design for easy installation. Completely automatic operation. Wt. 1 lb. Size 1 1/8 x 3 1/8". No. 32C275. ATR Model 250. Each. **\$2.63**

## REG. NET 38c 7.5 OHM FUSED RESISTOR

Often needed replacement in series wired TV sets. Exactly matches electrical specifications and dimensions of the original part. Buy plenty at this lowest price anywhere. Regular net price 38c each. No. 18C640. **15c** 10 Lots, **12c** Spec., Each

## KIT OF 10 IN HANDY PLASTIC BOX

Contains the popular always needed sizes; 6-7.5 ohm, plus 1 each of 4.7, 5.6, 9 and 22 ohm. All top quality. Regular net value \$3.80. No. 17C427. Kit of 10, Special. **\$1.99**

## SAVE ON GE NE2 NEON LAMPS

Extremely popular 1/25 watt bulb as used for pilot light assemblies and for volume level indicator on recorders. Unbased, with 2 wire leads 1/4" dia., 1 1/8" long. Requires 200-1000 ohm series resistor for 105-125 V. Operation. No. 18A841 **59c** 50 For **\$2.49**

## FOR IMPROVED TV RECEPTION!

### BARGAIN PRICED! TV PICTURE TUBE "BRIGHTENER"



**87c**

DIM PICTURE TUBES RESTORED TO NEW BRILLIANCE

Makes dull smoggy pictures bright and crisp, extends life for many months. Works with electrostatic and magnetic picture tubes in sets having parallel tube filaments. Very simply installed, just plug-in. No. 20A339. **6 For \$4.79** Net Each. **87c**

### HANDY TV ANTENNA CONNECTORS



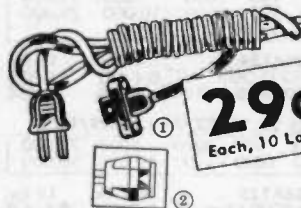
**15c** Each 10 Lots

REG. 35c Net Value

Mighty handy. Makes connecting and disconnecting 300 ohm lead from TV set quick and easy. Clothespin type. Snaps onto antenna terminals of set. No. 17B420. **10 Lots, 15c** Net Each. **19c** Each

### TV CHEATER CORDS BARGAIN PRICED!

TOP QUALITY NO. 18 POSJ UL APPROVED 6-FOOT CORDS

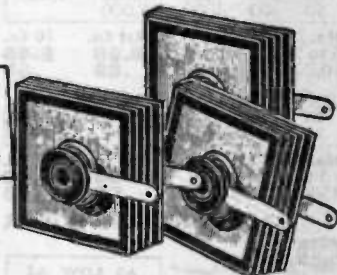


**29c** Each, 10 Lots

### SAVE ON TOP QUALITY SELENIUM RECTIFIERS

Dry disc, half wave midgeet type such as universally used in radios, record players, TV sets, amplifiers, etc. Made with high quality plates to assure long life and dependability. Brand New, fresh from original manufacturer. 130 volts RMS rating, 380 volts maximum peak inverse rating. All below are High Density.

AS LOW AS **42c** Each, Lots of 5



Stack No.	DC MA	Size Inches	Each	5 Lts. Ea.
17B1095	65	.67x.67x3/4	<b>\$0.47</b>	<b>\$0.42</b>
17B1096	75	.67x.67x1 1/8	<b>.65</b>	<b>.59</b>
17B1097	100	1x1x1 1/8	<b>.69</b>	<b>.62</b>
17B1098	150	1x1x1 1/8	<b>.88</b>	<b>.79</b>
17B1114	300-400	1 1/2x1 1/2x1 1/8	<b>.99</b>	<b>.90</b>
17B1101	500	1 1/2x1 1/2x2	<b>1.29</b>	<b>1.19</b>

### 500 MA MINIATURE SILICON RECTIFIER UNIVERSAL REPLACEMENT FOR ANY SELENIUM UP TO 500 MA



**99c** Each, 10 Lots

MFG. LIST VALUE \$2.49

GIANT SAVING

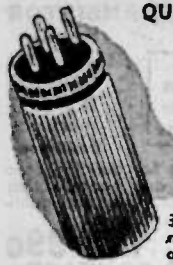
Highest quality encapsulated miniature size silicon with axial leads. Requires no heat sink, simply wire in place. Especially well suited for TV applications. 400 peak inverse voltage. Measures only 3/8" dia. x 3/8" thick. List value \$2.49. No. 17B1102. **\$1.29** 10-49 **99c** Net Each. **.99** Each. **50-99** **94c** 100 **89c** Each.



GE 1000 MA GERMANIUM RECTIFIER DIODE. Rated 400 P.I.V. No. 18A538 **\$1.69** 10 Lots, **\$1.45** Net Each. **10c** Each.

# MORE B-A "EYE-OPENER" VALUES!

FINEST FOR LESS! YOUR COMPLETE SATISFACTION GUARANTEED!



**QUALITY MAKE—  
VIBRATORS  
FRESH STOCK!**

**\$1.29**

3 types to cover most replacement needs at a substantial saving.

**6 VOLT**

Standard 4 Prong—Replaces Mallory 294, 859, 901M; Radiart 5300, 5301, etc. **\$1.29** 10 Lots, **\$1.19** Each... No. 19B93.

**12 VOLT**

3 Prong—Replaces Mallory G874/G883; ATR 1343; Delco 8550; Radiart 6330, etc. **\$1.29** 10 Lots, **\$1.19** Each... No. 19B206.

4 Prong—Replaces Mallory G859; ATR 1340, 1344; Radiart 6326, etc. No. 19B204. **\$1.29** 10 Lots, **\$1.19** Each... Each...

**REPLACEMENT  
CRYSTAL  
CARTRIDGES**

**\$1.39**

Each, 10 Lots

**TOP  
AMERICAN  
MAKE!**



These 2 types replace any Cartridge with standard 1/2" mtg. centers and covers the majority of demand for both single (78 RPM) and 3 or 4 Speed players using a single needle type cartridge. Track as little as 3/4 oz. pressure. Have rest clip and thumb screw needle chuck. Top quality, made by Astatic.

No. 16A621. 1.25 Volt Output. No. 16A622. 3.5 Volt Output.

Choice, 10 Lots, **\$1.75** Each... 10 Lots, **\$1.39** Each...

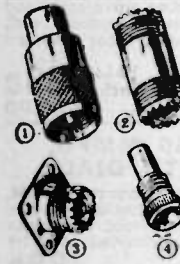
## NOW... CHECK VIBRATORS ON ANY TUBE TESTER

**TWO ADAPTORS IN ONE! FOR BOTH 3 AND 4 PRONG VIBRATORS, 6 OR 12 VOLT**



Speeds up auto radio servicing work. Handy new checker tests vibrators quickly and easily. Works with any standard tube tester—just plug-in. Ruggedly made of steel with instructions screened on front. No. 16C288. Net Each **\$2.69**

## HIGHEST QUALITY SILVER PLATED COAX CABLE CONNECTORS



① PL255. No. 18B251. Spec., Each **65c** 10 Lots, **55c** Each...  
② PL258. No. 18B253. Spec., Each **\$1.08** 10 Lots, **88c** Each...  
③ SO-239. No. 18B252. Spec., Each **69c** 10 Lots, **58c** Each...  
④ REDUCERS No. 18B254. UG175U. No. 18B255. UG176U. CHOICE, 10 Lots, **15c** Each... 10 Lots, **12c** Each...

## SUPER POWERFUL RADIO ANTENNAS

REPLACES LOOPS AND ANTENNA HANKS FOR GREATLY IMPROVED PERFORMANCE!

**\$1.32**



### SUPEREX "VARI-TENNAS" & "FERRI-LOOPSTICKS"

Replaces the old-fashioned loop or hank-of-wire and antenna coil used in many older broadcast radios. Highly efficient, extremely high "Q" winding on special ferro-magnetic core pulls in stations never heard before. Variable tuning allows for "peaking" at best performance for each set.

#### ① POPULAR "VARI-TENNA"

● Boosts sensitivity and gain up to 25 times over old loops and hanks. Completely adjustable by screwing "slug" in and out. Small enough to fit any set. Also popular for tiny tunable crystal radios. 2" long, 3/8" dia. Clip-mounts in 1/8" hole. Mfg. list \$1.25. No. 14C89. Net Each... **73c**

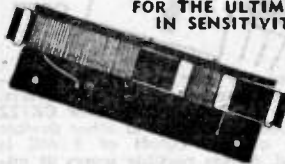
#### ② SUPER ENERGIZED FERRI-LOOPSTICK

● Even more powerful than the Vari-Tenna. Has larger ferrite core, fully adjustable, by sliding in and out of coil form. Self-locking. Extended length approx. 4". Clip mounts in 1/8" hole or with bracket supplied. Mfg. list \$1.50. No. 14C94. Net Each... **88c**

#### ③ EXTRA POWERFUL 7" KING-SIZE LOOPSTICK

● Outperforms them all. Almost like adding another stage of amplification to the set. Gives amazing performance because of extreme high "Q" of 425. Self-locking full adjusting for "peaking." With mounting bracket. Mfg. list \$2.25. No. 14C277. Net Each... **\$1.32**

### FOR THE ULTIMATE IN SENSITIVITY



### FLAT LOOPSTICKS

Most powerful yet! Flat shape provides more pickup, fits smaller places. Easy to mount. Works with any set having standard AM variable condenser. Sliding coil section provides perfect match. Compact 3 3/8" L. No. 14A37. Each... **\$1.62**  
No. 14A38. Extra sensitive 7" Mfg. list \$3.00. Each... **\$1.76**

## SAVE UP TO 50%

### "K-TRAN" IF TRANSFORMERS

Top quality universal input or output permeability tuned compact IF's. Small enough for personal portables, unbeatable for builders and for repairing all home and auto sets. Has highest quality silver mica fixed capacitors, low loss base, aluminum cans, 4 lugs. Size only 2 1/8" H x 3/4" Sq.

No. 18A87-455 KC No. 18A88-262 KC  
Choice **\$1.59** 5 Pr. **\$1.39** 25 Pr. **\$1.19**  
Per Pr. Each... Each...



**\$1.59**  
PAIR  
REGULAR NET VALUE \$2.40 PAIR

## BUY THESE HIGH QUALITY TRANSFORMERS AT LOWEST COST!

BRAND NEW FRESH PRODUCTION BY LEADING TRANSFORMER MANUFACTURERS

### POWER TRANSFORMERS

Highest quality, yet economy priced. Truly unbeatable values! Fully shielded type with heavy-duty 5" flexible coded leads. All plate and filament windings center-tapped. 110-120 V. 50-60 cycle primaries.

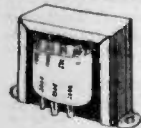


Stock No.	Plate Volts	MA	Rect. Volt	Amp.	FIL 1 Volt	Amp.	Mtg. Centers	Weight Lbs.	1-9	10-24	25-49
*13A248	500	50	5	2	6.3	2	3 1/2"	2 1/2"	\$3.85	\$3.50	\$3.15
13A153	650	70	5	3	6.3	3.5	2 x 2 1/2"	5"	3.99	3.59	3.41
13A416	600	90	5	2	6.3	3	2 1/2 x 2 1/2"	5"	4.29	3.86	3.67
*13A157	670	120	5	3	6.3	3	2 1/2 x 2 1/2"	5"	5.97	5.37	5.11
*15A160	750	150	5	3	6.3	3	2 1/2 x 3 1/2"	7 1/2"	6.88	6.23	5.61
13A182	800	200	5	3	6.3	5	3 x 2 1/2"	10"	7.99	7.19	6.83
*3A105	1200	300	5	3	6.3	5	3 x 4 1/2"	12"	9.95	9.65	9.35

### UNIVERSAL OUTPUT TRANSFORMER

Primary 4000-14,000 ohms. 8 watts. Matches 3.2, 8 or 16 ohm V. C. Size 1 1/8 x 2 1/8 x 1 1/2". Wt. 1 lb.

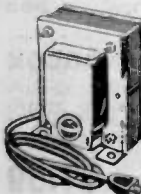
No. 13A237. 10 Lots, 25 Lots, Net Each... **\$1.75** Each... **\$1.57** Each... **\$1.49** Each...



### 70.7 VOLT LINE-TO-VOICE COIL OUTPUT

Tapped for 5, 2.5, 1.25, .62 and .31 watts. Maximum 5 watts. Secondaries 3.2-4, 6-8 ohm. Size 1 1/8 x 2 1/8 x 1 1/2". Wt. 3/4 lb.

No. 13A238. 10 Lots, 25 Lots, Net Each... **\$1.73** Each... **\$1.58** Each... **\$1.49** Each...



### ISOLATION TRANSFORMERS

Reduces shock hazard particularly when used with AC-DC equipment. Needed by serviceman and highly recommended for TV sets, hi-fi amplifiers, etc. can be paralleled for higher power. Convenient AC cord with plug and AC output receptacle makes installation simple. For 115 volt 50-60 cycle.

Stock No.	Watts	Size	Weight	1-9	10-24
13A163	100	4 1/2 x 3 1/2 x 3 1/2"	7 lbs.	\$ 6.85	\$ 5.45
13A185	250	4 3/4 x 3 1/2 x 4 1/2"	12 1/2 lbs.	13.84	12.28

### STANDARD OUTPUT TRANSFORMERS

Matches plate or plates of the output stage to the speaker voice coil. Designed for Class A Amplifiers. Average wt. 3/4 lb.



Stock No.	Primary Imp.	MA	Sec. Imp.	Audio Watts	Size	1-9	10-24	25-49
13A166	5000	40	3.2	3	1 1/2 x 1 1/2 x 1 1/2"	\$0.93	\$0.74	\$0.80
13A168	2500	50	3.2	3	1 1/2 x 1 1/2 x 1 1/2"	.93	.84	.80
13A169	8000	20	3.5	3	1 1/2 x 1 1/2 x 1 1/2"	.93	.84	.80
13A170	2000	50	3-4	6	1 1/2 x 2 1/2 x 1 1/2"	.93	.84	.80
13A182	5000	40	4	5	1 1/2 x 2 1/2 x 1 1/2"	.93	.84	.80
13A223	25000	10	3.5	5	1 1/2 x 2 1/2 x 1 1/2"	.93	.84	.80
13A224	7000	30	3-4	5	1 1/2 x 2 1/2 x 1 1/2"	.93	.84	.80

### SUB-MINIATURE OUTPUT FOR PERSONAL PORTABLES

Matches 9000 ohms (354 etc.) to 3-8 ohm speaker voice coil. Measures only 3/4" W, 1 1/8" H, 1" L. Mfg. centers 1 3/8". Color coded wire leads.

No. 18A89. 10 Lots, 25 Lots, Special Each... **\$1.29** Each... **\$1.19** Each... **\$1.16** Each...

### FILTER CHOKES

Ideally suited for DC Power Supplies.

Stock No.	Hys.	MA	Ohms	Size	Lbs.	1-9	10-24	25-49
13A228	5.5	50	330	1 1/2 x 2 1/2 x 1 1/2"	3/4	\$0.84	\$0.76	\$0.72
13A230	16	50	550	2 x 3 1/2 x 1 1/2"	1 1/2	1.38	1.24	1.18
13A591	8	75	290	2 1/2 x 1 3/4 x 2 1/2"	1	1.50	1.35	1.28
13A232	10.5	110	220	2 1/2 x 4 x 2 1/2"	2 1/2	2.21	1.99	1.89
13A239	7	150	200	2 1/2 x 4 x 2 1/2"	2 1/2	2.39	2.15	1.95
13A240	8	300	70	4 1/2 x 3 1/2 x 4"	8	5.95	5.65	5.40

### FILAMENT TRANSFORMERS

105-125 volts 50-60 cycle AC primaries.

Stock No.	Volts	Amps.	Size	Lbs.	1-9	10-24	25-49
13A233	6.3	1	1 1/2 x 2 1/2 x 1 1/2"	1 1/2	\$1.35	\$1.21	\$1.15
13A234	6.3	3	2 x 3 1/2 x 1 1/2"	1 1/2	1.94	1.75	1.67
13A236	5	6	2 1/2 x 3 1/2 x 1 1/2"	2 1/2	2.49	2.25	2.13
13A249	12.6	2	2 x 3 1/2 x 1 1/2"	2	2.21	1.99	1.80



# BIG SAVINGS! TRANSISTORS &

FINEST FOR LESS! YOUR COMPLETE SATISFACTION GUARANTEED!



## POPULAR GE TRANSISTORS AT SENSATIONAL NEW LOW PRICES

**GENERAL PURPOSE 2N107** WAS 98c **59c**

Diffused junction hermetically sealed general purpose type. For low frequency applications such as radio amplifier, pre-amps, mlke circuits, etc. Freq. range to 1 MC. Base amp. factor of 20. No. 20B51. Each..... **59c**

**NEW RF TYPE 2N170** WAS \$1.27 **75c**

NPN Germanium Transistor intended for use in high frequency circuits. Perfect for building vest pocket radios, regeneration receivers, HF oscillators, etc. Freq. range 4 MC. No. 20B50. Net Each..... **75c**

## PNP AUDIO TRANSISTOR

Diagram Included for Building A Code Practice Oscillator

General audio type for building code practice oscillators and various other small signal devices. Everyone guaranteed perfect.

No. 20A14. **49c** 10 Lots, **39c** Each

## NEW FIFTH EDITION GE TRANSISTOR BOOK



Filled with interesting circuits using these popular GE Transistors. Bigger, better and more up-to-date than ever. Now you can build transistor radios, amplifiers, oscillators, etc., at lowest cost. Includes valuable information throughout needed by every engineer, experimenter, etc. No. 25A233. Net Each..... **\$1.00**

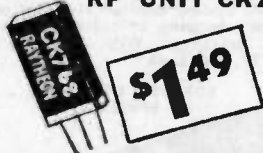
## POPULAR 3-CONTACT TRANSISTOR SOCKET

Low loss molded rectangular socket with push-on mounting ring. Has low resistance plated contacts. Only  $\frac{3}{8} \times \frac{1}{4} \times \frac{7}{8}$ " H. Quality import. No. 17C684. **17c** 10 Lots, **14c** Each

## POPULAR RAYTHEON TRANSISTORS CK722 RF UNIT CK768



**LEADS THE FIELD**



**LOW COST**

Popularity proven by the millions already sold and used. Perfect for building radios, wavemeters, voltmeters, audio amplifiers, preamplifiers, CW monitors, etc. . . . book at right lists numerous other interesting projects using this junction type transistor. Base current amplifier factor 22. Frequency cutoff .6 MC. Includes wiring diagram. No. 20A357. Net Each..... **99c**

Now at low cost, a transistor especially designed for use in RF circuits. Perfect for use with popular CK722 for building radios and other devices where a freq. cutoff of 3 MC is needed. Makes possible scores of additional experimental and practical projects. Base current amp. factor of 20. Wiring diagram included. No. 20A356. Net Each..... **\$1.49**

## RAYTHEON TRANSISTOR APPLICATIONS BOOK



Volume 2. A must for every experimenter, builder and student . . . supercedes very popular Volume 1. Written so the beginner can understand yet thorough enough for the advanced technician. Sections devoted to receivers, amplifiers, hom gear, test equipment, plus many other interesting and useful transistorized gadgets. Complete construction information with wiring diagrams and parts lists. Also basic theory and information on printed circuitry. 58 pages. No. 25A231. Each..... **50c**

## SVLVA IN34A GERMANIUM DIODE

General application type used as detector in transistor radios, crystal sets, wave meters, standing wave ratio and frequency measuring instruments, etc.,  $\frac{1}{4}$ " dia. x  $\frac{7}{8}$ " long. Glass enclosed with axial leads. No. 18A71. **39c** 10 Lots, **29c** Each

Special, Ea. . . **100 For \$24.00**

## HIGH QUALITY Bendix AUDIO TRANSISTORS

B-A SPECIAL PURCHASE! PRICED FAR BELOW REGULAR NET



**BENDIX B1022 AUDIO DRIVER TRANSISTOR**  
Vastly superior general purpose germanium PNP type for long life and stable operation. Works in circuits for CK722, etc. Collector to base voltage -15; collector current 300 MA; base current 30 MA; collector dissipation 300 MW; current amplification ratio 20; frequency cut-off 7.5 KC. No. 20A853. **99c** 6 Lots, **90c** Each

**BENDIX B1017 POWER TRANSISTOR**  
Makes possible relatively high power audio amplifiers operating directly from a 6 volt battery. Output comparable to 6AG5, 6V6 and similar tubes. Also used in high current switching circuits to operate small motors, servos, regulators, small power converters, high power audio oscillators, etc. Germanium PNP type collector to base rating 20 volts max.; collector current 3 amps; base current 150 MA; collector dissipation 25 watts. Load impedance 17 ohms, freq. response 6 KC, power gain 20 db, minimum output power with no clipping 2 watts. No. 20A854. **\$1.19** 6 Lots, **99c** Each

**MOUNTING KIT FOR B1017 TRANSISTOR**  
Convenient, matching socket meeting all insulation and heat conduction requirements. Makes installation simple. Made by Bendix. No. 20A855. Special Each..... **39c**

## PAC OF 8 MOST NEEDED TRANSISTORS SAVE OVER 50%



REG. \$11.15 NET VALUE! **\$4.95** REPLACE OVER 450 MOST POPULAR TYPES

Handiest, most economical deal you'll buy! Use of only one or two will pay for the entire pac, and you have that badly needed transistor right there ready for instant replacement. Simple cross reference included for replacing over 450 transistors. Pac of 8 consists of 5 different universal types—2-1F amplifier, RF amplifier, 2-audio output, audio driver, and general purpose diode (for IN34A, IN60A, IN64A, IN295). A real money and time saver. No. 20A631. Pac of 8..... **\$4.95**



**89c**  
Condenser 1-in. Square



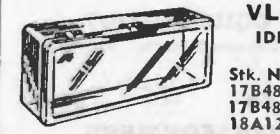
**69c**



**73c**  
LIST PRICE \$1.25

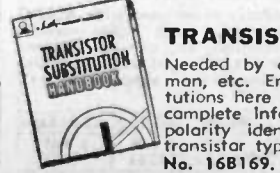


**59c**  
IMPORT SPECIAL



**VLCKEK CLEAR PLASTIC CASES**  
IDEALLY SUITED FOR BUILDING MINIATURE RADIOS, ETC.

Stk. No.	Size	Type	Lid	Net Ea.
17B482	4 1/2" L, 2 3/4" W, 1" D.	Hinged		29c
17B484	6 1/4" L, 4" W, 1 1/2" D.	Removable		44c
18A1268	7" L, 3 1/2" W, 1 1/8" D.	Hinged		39c



**HOWARD W. SAMS TRANSISTOR SUBSTITUTION HANDBOOK**  
Needed by every student, engineer, experimenter, serviceman, etc. Ends confusion—aids in making transistor substitutions here before practically impossible because of lack of complete information and specs. Includes basing diagrams, polarity identifications and manufacturers for over 2700 transistor types. A real must . . . order now. No. 16B169. Each..... **\$1.50**

# OTHER MINIATURE COMPONENTS

ALL ARE TOP QUALITY, BRAND NEW! TRULY EXCITING VALUES!



## SAVE! MINIATURE PANEL METERS

**\$4.95**

MEASURES ONLY 1/8" SQUARE

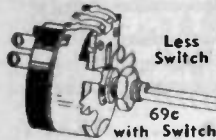
LATEST MODERN DESIGNED CLEAR PLASTIC CASES

Improved appearance—easier to read—lets in light from sides. Standard D'Arsonval moving coil type with zero set. Mounts in front or behind panel in 1/2" diameter hole. Silvered dial and black numerals. Precision quality import. At least a 50% savings.

Stock No.	Type	Each	3 Lots Ea.
17A552	0-1 DC Milliamps	\$4.95	\$4.50
17A553	0-100 DC Millamps	4.95	4.50
17A554	0-200 DC Millamps	4.95	4.50
17A556	0-50 DC Microamps	6.45	5.95
17A557	0-100 DC Microamps	5.95	5.45
17A558	0-150 AC Volts	4.95	4.50

### VOLUME LEVEL (VU) METER

Calibrated in db's and percentage. Standard markings.  
No. 17A559. Net Each... **\$4.95** 3 Lots Each... **\$4.50**  
May Be Assorted for Quantity Prices



Less Switch

**49c**

69c with Switch

## SUB-MINIATURE VOLUME CONTROLS

- Only 3/4-inch diameter
- Precision Italian import.

Just right for transistor and other sub-miniature circuits. 1/8x1" long shaft. Linear taper for volume and tone.

Specify Resistance Value: 5K, 10K, 25K, 50K or 1/2 Meg.	10 Lots,	44c
No. 17A22. Less Switch	Each	44c
Your Choice, Each	10 Lots,	63c
No. 17A23. With SPST Switch	Each	63c
Your Choice, Each	10 Lots,	63c

### SMALLER YET—ONLY 5/8" DIA.—WITH SWITCH

Highest quality American made. 5000 ohms. With SPST switch. 1/8x3/8" long shaft.	10 Lots	69c
No. 18A217. Special Each	Each	69c
No. 12B1205. KNOB for all above controls. 5/8" dia. Each	Each	10c



ONLY **\$1.49**

## 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.

No. 22A44—2" Round. No. 22A351—2 1/2" Round	Each	\$1.49
No. 22A350—2 1/4" Round. No. 22A45—2 3/4" Round	Each	\$1.49

### ② REALLY TINY PM SPEAKER

Measures only 1 1/2" dia. x 1" deep. Features amazing quality for its extreme small size. 3-8 ohm V.C. Precision import

No. 17B543. Special Each	Each	\$1.49
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**\$1.95**

TERRIFIC VALUE!

## MINIATURE CRYSTAL MIKES

Only 1 3/8" dia. x 3/8" deep—perfect for concealed location uses. Also fine as replacement cartridge for regular crystal mikes. Extremely sensitive with good output. High impedance. Import made.

No. 17B265. Special Each	Each	\$1.69
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As above 2" diameter. No. 17A24. Special Each	Each	\$1.99
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## SAVE ON TRANSISTOR BATTERY COSTS! TINY WET CELL BATTERY WITH CHARGER REPLACES STANDARD 9 VOLT TYPES



BATTERY & CHARGER

ONLY **\$2.95**

RECHARGEABLE UP TO 100 TIMES

SAME SIZE AS EVEREADY 216, BURGESS 246 AND RCA VS-312.

Sealed wet cell battery rejuvenates to full capacity overnight when plugged into its own 115 V. AC powered charger. Reusable up to 100 times.

Simple to use, saves money too.

No. 17A46. Battery and Charger.

Import Special	\$2.95
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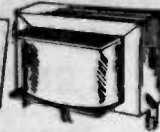
### EXTRA WET CELL BATTERY

No. 17A47. Replaces 9 V. type 216, etc.

Special Each	\$1.95
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## MINIATURE TRANSISTOR AUDIO TRANSFORMERS

**89c**



### HIGHEST QUALITY IMPORTS AT A BIG SAVINGS

Tiny size. Measures 3/4 x 5/8 x 5/8". Specially selected to meet the needs of experimenters and builders for amplifier and radio circuits using the standard types of transistors such as Raytheon and GE listed on opposite page.

No. 17C659. Input. Pri. 20,000 ohms; sec. 1000 ohms.

No. 17C660. Output. Pri. 10,000 ohms; sec. 2000 ohms C. T.

No. 17C661. Output. Pri. 500 ohms C. T.; sec. 3.2 ohms.

YOUR CHOICE, EACH... **89c**

NEW! Crystal Mike Input. Pri. 200,000 ohms; sec. 1000 ohms. Only 1/2x1/2x1/2".

No. 17A634. Special Each... **89c**

## SUB-MINIATURE JACK

REG. 24c EACH **15c**



Closed circuit type. Mates with plug listed at right. Mounts in 1/4" hole in panels up to 1/8". Jack hole 1/8".

No. 17B248. 10 Lots, **13c**

Special Each... **15c** 100 Lots, Each... **12c**

## DYNAMIC EARSETS AT LOWEST COST

MIN. PLUG AND JACK

**\$1.19**



Lightweight, high quality imported headset at lowest cost ever. Perfect for transistor radios, code oscillators, etc. 3 ft. plastic covered cord with plug and jack.

17A349. General Purpose 2000 Ohm. 17A337. For Transistor Radios and Devices: 15 Ohm.

CHOICE, EACH... **\$1.19**

CRYSTAL EARPHONE AT NEW LOW PRICE!

Extra sensitive high - power high impedance. 3 ft. cord. Import

No. 17A247 **99c**

99c

## SUB-MINIATURE JACK

REG. 24c EACH **15c**



Closed circuit type. Mates with plug listed at right. Mounts in 1/4" hole in panels up to 1/8". Jack hole 1/8".

No. 17B248. 10 Lots, **13c**

Special Each... **15c** 100 Lots, Each... **12c**

## SUB-MINIATURE PLUG

TOP VALUE IMPORT **39c**



2-way. Mates with jack at left. Solder terminals. Barrel size 1" L. x 3/8" dia.

Specify Red or Black. No. 17C454. 10 Lots, **35c**

Special Each... **39c** 100 Lots, Each... **33c**

## SUB-MINIATURE SHIELDED PLUG & JACK SET

Fine import at big savings. Unbreakable miniature shielded 2-way plug, bright plated, measures only 1 1/4" L. x 3/8" dia. Internal screw terminals. Closed circuit jack mounts in 1/4" hole in panels up to 1/8". Solder lugs.

No. 17A627. 10 Sets, **55c**

Spec. Per Set... **59c** Each... **55c**

## EXTRA TINY PUSH-BUTTON SWITCH

**36c**



LESS THAN HALF USUAL COST

SPST normally open, momentary contact. Perfect 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 half the usual cost.

No. 17A404. 10 Lots, **29c**

Net Each... **36c** Each... **29c**

## SUB-MINIATURE 15-AMP TOGGLE SWITCHES

ONLY 1/2x1/4x1/2" WITH 3/8" LONG HANDLE

**\$1.19**

FINE QUALITY

Really tiny—perfect for miniature equipment. Rated 15 amps @ 125 V. AC. Mfg. shank 3/8" x 3/8" long. Hardware included. Unusually fine import quality.

No. 17A25. SPDT Special Each... **\$1.19** 10 Lots, **\$1.08** Each...

No. 17A26. DPDT Special Each... **\$1.49** 10 Lots, **\$1.35** Each...

## SELENIUM SOLAR CELL

Extra high output—generates 2 MA at .5 volts in sunlight. Highest quality, long life, practically indestructible. Will operate sun powered radios (circuit enclosed), light meters, sensitive relays for turning on and off lights, opening doors, counting, etc.—any application where light variations can be utilized. Size only 1 1/8x7/8" with wire leads. Includes suggested circuits.

No. 20A39. 3 For... **\$2.00**

Spec. Ea... **79c** For... **\$6.99**

## SAVE! MINIATURE 9 VOLT BATTERY FOR TRANSISTOR RADIOS

Top quality import replaces Burgess 2U6, RCA VS-312, Eveready 216, etc., at big savings. Compare at 95c net.

No. 21A185. **49c** 10 @ **44c**

Net Each... **49c** Each... **44c**

## EXCITINGLY NEW! AS USED IN SPACE SATELLITES.



**79c**

PERFECT FOR SCIENCE CLASS PROJECTS.

## SAVE! MINIATURE 9 VOLT BATTERY FOR TRANSISTOR RADIOS

Top quality import replaces Burgess 2U6, RCA VS-312, Eveready 216, etc., at big savings. Compare at 95c net.

No. 21A185. **49c** 10 @ **44c**

Net Each... **49c** Each... **44c**

COMPARE AT 95c

**49c**

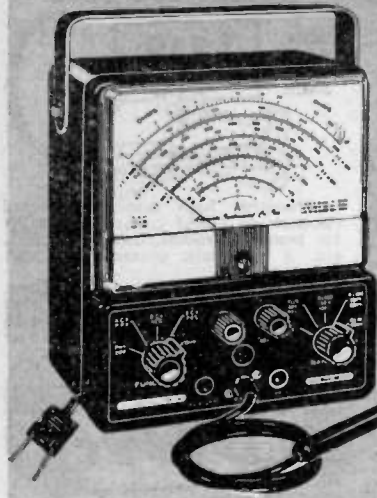


# SPECTACULAR TEST INSTRUMENT VALUES

## SENIOR VTVM

ALL AMERICAN MADE

## TUBE TESTER



COMPLETELY WIRED  
AND CALIBRATED  
... READY-TO-USE

GIAINT 6½ INCH  
FULL VIEW METER

COMPARE  
AT UP TO \$70.00

**\$29<sup>95</sup>**

TOP VALUE

MODERN, STREAMLINED AND COMPACT . . . A  
PRECISION QUALITY INSTRUMENT . . . RELIABLE  
AND ACCURATE FOR ALL ELECTRONICS WORK

A truly professional precision quality instrument, all American made . . . specially priced to save you money! Provides golden opportunity for serviceman, ham, experimenter, engineer, hi-fi enthusiast, etc. to enjoy the desired advantages of a dependable, versatile, highly sensitive VTVM at lower cost than many ordinary multimeters.

HERE ARE THE SPECIFICATIONS:

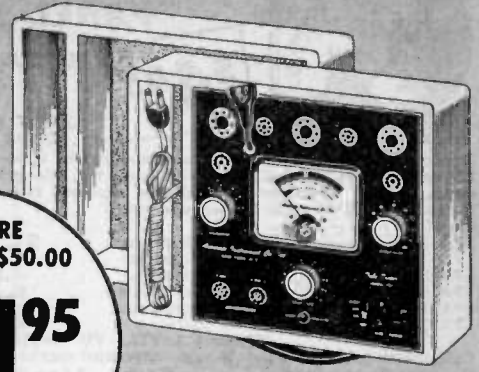
DC Voltmeter Ranges: 0-3, 30, 150, 300 and 1500 volts.  
Zero Center Voltmeter (for discriminator alignment etc.) Ranges: 0-1.5, 15, 75, 150, 750 volts.  
AC Voltmeter. RMS Ranges: 0-3, 30, 150, 300, 1500 volts.  
Accuracy all voltage ranges  $\pm 3\%$  full scale—Input resistance 11 megohm.  
Peak-to-Peak Ranges: 0 to 8, 80, 400, 800 volts.  
Ohmmeter Ranges: 0-1000 megohm in 5 overlapping ranges.  
DB Meter for all audio measurements. Ranges: -10 to +5, +6 to +25, +26 to +45 decibels. Based zero DB at 1.73 on 500 ohm line.  
Housed in beautiful gray case with color matched aluminum panel and carrying handle. Size 7x7½x5". Complete with instructions, service hints, probe and cable and test leads. Operates on 110-120 AC volts. Wt. 4 lbs. No. 35A239. Model 152 Senior VTVM Ready to use. **\$29.95**



### HOW TO USE A VTVM

Explains clearly the practical application of the VTVM in radio, TV service, industrial plant maintenance and many miscellaneous applications. 224 pages crammed full of information you need. Fully illustrated. No. 16C259. Gernsback #57. Net Each. **\$2.50**

FULLY  
Guaranteed  
FOR  
ONE YEAR



COMPARE  
AT UP TO \$50.00

**\$21<sup>95</sup>**

TOP VALUE

TESTS OVER 1000  
TUBE TYPES

JUST IT FOR SERVICEMEN, HAMS,  
HOBBYISTS, HI-FI Enthusiasts, Etc.

COMPLETELY WIRED AND TESTED . . . READY  
TO USE—NO EXTRAS TO BUY  
CONVENIENT CARRYING CASE FOR ON THE JOB

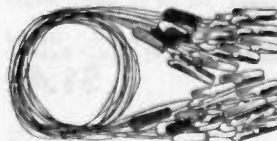
- Compares with tube testers selling for as much as \$50. Made for B-A by one of America's leading tester manufacturers.
- Fully guaranteed by both the maker and B-A for one full year.
- Free tube data for 5 years, keeps tester up to date for all new tube types.

For Servicemen! Low cost, dependable, fits in a tube caddy, makes all tests for shorts, filament continuity and indicates quality of all 7 and 9 pin miniatures, octals, lock-ins, 9 pin novel miniatures and new T-9 types.

For the Ham, Hobbyist or Hi-Fi enthusiast. With just "out of the pocket money" you can have a dependable tester to make "on the spot" tests of questionable tubes saving hours of time and expense.

New engineering ideas have conceived a simplified switching arrangement to speed up testing. The new meter is rugged, highly accurate full view type with clean easy to read scale indicating good or bad tubes. Housed in durable leatherette case, size 9x10½x4". Operates on 115-125 volt AC. Shpg. wt. 6 lbs. Complete with instructions and tube chart. **\$21.95**

No. 35A344. Each **\$21.95**



### ALLIGATOR CLIP LEADS

Bundle of ten always needed flexible plastic insulated 15" jumper cords with spring alligator clip and insulator on each end. Made up, ready for use in 5 assorted colors. No. 17B566. Per Bundle. **\$1.39**

## MULTI-RANGE VOLT-OHM-MA CIRCUIT TESTERS

AT LOW, LOW PRICES EVERY EXPERIMENTER,  
STUDENT, HOBBYIST, SERVICEMAN CAN AFFORD

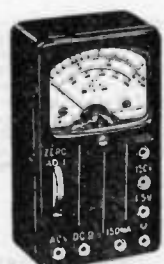


**\$16<sup>95</sup>**

COMPLETELY WIRED AND READY-TO-USE

**\$11<sup>95</sup>**

**\$6<sup>95</sup>**



### POCKET TESTER

1000 Ohms per volt. A complete multi-tester at less than the usual price of just the meter alone! Reads AC or DC volts in 3 ranges of 0-15, 0-150 and 0-1000 volts; DC current 0-150 MA; Resistance 0-100,000 ohms. Has convenient thumb-operated ohms zero adjust and pin jacks for all 5 ranges. Bakelite case 4" x 2¼" x 1½". Test leads, self-contained battery and instructions included. Shpg. wt. 1 lb. No. 35A573. Special Each. **\$6.95**

### SENSITIVE MIDGET TESTER

2000 Ohms per volt. Extra convenient and versatile. Reads AC or DC volts in 5 ranges of 0-10, 0-50, 0-250, 0-500 and 0-1000 volts; Resistance in 2 ranges, 0-10,000 ohms and 0-1 megohm; Decibels in 2 ranges, -20 to +36 db. Has ohms zero adjust, rotary self-wiping range switch, bakelite meter case and panel. Outer case is steel, black wrinkle finish. Size 5¼" x 3½" x 1½". With test leads, self-contained battery and instructions. Shpg. wt. 2 lbs. No. 35A574. Special Each. **\$11.95**

### HIGH SENSITIVITY MULTI-TESTER

20,000 Ohms per volt DC, 10,000 Ohms per volt AC. Compares with meters costing double our price. Unusually high sensitivity and wide choice of ranges make this the best tester buy of all time. Measures DC volts in 5 ranges 0-6, 0-30, 0-120, 0-600 and 0-1200 volts at 20,000 ohms per volt sensitivity, AC volts in 5 ranges 0-6, 0-30, 0-120, 0-600 and 0-1200 volts at 10,000 ohms per volt; DC current in 4 ranges of 0-60 microamps, 0-1.2 MA, 0-12 MA, 0-300 MA; Resistance in 4 ranges of 0-10,000 ohms with half scale reading of 60 ohm, 0-100,000 ohms, 0-1 megohms and 0-10 megohms; Decibels -20 to +17 db. Has ohmmeter zero adjust, rotary range switch, all bakelite case, large 3" meter face. Size 6¼ x 4½ x 2". With test leads, self-contained battery and instructions. Shpg. wt. 3 lbs. No. 35A575. Special Each. **\$16.95**

TOP IMPORT VALUES—GUARANTEED TO SATISFY!

• Sensitive moving coil type meters • Zero adjust, knife edge pointers.

186 Burstein-Applebee Co., 1012-14 McGee St., Kansas City 6, Mo., (Phone Baltimore 1-1155)



# SAVE \$\$\$ ON B-A's TOP QUALITY IMPORTS

• LATEST PROFESSIONAL DESIGNS

• AMAZINGLY FINE PERFORMANCE

## JACKPOT SAVINGS ON CRYSTAL MICROPHONES

**\$2<sup>39</sup>**




**TINY... CONCEAL IN HAND OR CLIP TO CLOTHING**

**\$3<sup>95</sup>**



**HAS FULL TILTING HEAD & 52 INCH ATTACHED CABLE**

**\$4<sup>23</sup>**



**\$5<sup>85</sup>**



**HIGHLY SENSITIVE ALL-DIRECTIONAL PICKUP FITS 3/8"-27 STANDS.**

**52-IN. ATTACHED CABLE**

**FABULOUS VALUES... COMPARE WITH MIKES AT 2 OR 3 TIMES OUR PRICE**

### CRYSTAL LAPEL MIKE

A natural for hidden detectophones, hearing devices, etc. 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. Wt. 8 oz. No. 17B438. **\$2<sup>39</sup>** Special Each... 3 Lots, Each... **\$2.19**

### SLIM HAND-HELD CRYSTAL MICROPHONE

With handy slide on-off switch and detachable 57" cable. Rugged and small, weighs only 6 oz. Taps for voice or music. Wide range response; output -65 db; high impedance. Beautiful satin finished bright cast metal housing 4 7/8" L, 1 1/8" max. dia. Shpg. wt, 1 lb. Supplied with swivel cradle holder for use of mike on floor or desk stand. Has standard 3/8"-27 thread. No. 36A285. **\$3<sup>95</sup>** 3 Lots, **\$3<sup>75</sup>** Special Each..... Each.....

### POPULAR BULLET STYLE CRYSTAL MIKE

Good looking full size, top performing mike with standard 3/8"-27 thread to fit most any desk or floor stand. Fine for paging, public address, hams, home recording, etc. High impedance type with wide range response for voice or music. High output -52 db. Case of tough die-cast metal with smooth grey-green enamel finish and bright trim. Size 4" L, 2 5/8" dia., 4 1/8" H. Shpg. wt. 1 lb. No. 36A270. **\$4<sup>23</sup>** 3 Lots, **\$3<sup>98</sup>** Special Each... Each...

### STUDIO STYLE DUAL CRYSTAL MICROPHONE

Really impressive professional style with features not found in any other mike. Wide range, high impedance type with two phased crystal units for higher output (-50 db), greater sensitivity. Swivel yoke mount and 360° pickup pattern makes it perfect for home recording, conference tables, instrumental and choral groups, etc. Finished in bright chrome and black. Size 7" H. x 3" W. With gray plastic shielded cable. Shpg. wt. 1 lb. No. 36A284. **\$5<sup>85</sup>** 3 Lots, **\$5<sup>65</sup>** Special Each..... Each.....

### MINIATURE DYNAMIC MICROPHONE

FOR LAVALIER OR HAND HELD USE

**\$5<sup>87</sup>**



Perfect for recorders, paging, ham stations, lecturers, sales demonstrators, etc. Small size, light weight; hangs conveniently from neck card or fits hand where close talking is desired. Pickup is non-directional. Dynamic high impedance unit adds ruggedness and performance not found in ordinary microphones. Gives crisp, smooth wide-range reproduction, not affected by high temperature and humidity. Case is beautifully finished in chrome and black. Dia. 1 1/8 x 2 7/8" long. With Detachable 5 ft. shielded cable. Imported at great savings. No. 17A606. Special Each **\$5.87**

### HIGH STYLED STUDIO DYNAMIC MICROPHONE

**REALLY BEAUTIFUL AS WELL AS AN EXCELLENT PERFORMER... IT'S RUGGED TOO!**

Perfectly suited for use indoors or out without regard to high temperature or humidity. Non-directional - wide range pickup fine for tape recording conferences, PA systems, voice or music. Response 60-10,000 cps. Output -71 db. High impedance. Silver gray and chrome finished. Just-right size, only 5 3/4 x 1 1/2 dia. Comes with 4' shielded removable cable. No. 29A410. Special Each... **\$9.85**

**\$9<sup>85</sup>**



**SWIVEL YOKE FITS 3/8"-27 STAND**

• Looks just like the high cost studio professional mikes.

### ULTRA-MODERN STUDIO DYNAMIC MIKE

SWIVEL MOUNTED—FOR EITHER DESK OR FLOOR STAND

**\$13<sup>95</sup>**



**ALSO FITS FLOOR STAND**

Absolutely beautiful... should be seen and heard to be fully appreciated. Tastefully designed throughout from the smart concentric ring grill to the rubber padded non-tilt base. Features: rugged 50,000 ohm high impedance dynamic unit, wide range flat response 60 to 12,000 cps, high sensitivity -54 db output, and all-direction pickup. Perfectly machined ball and socket joint. Tilts to any angle or stands vertically. Mike and swivel easily removed from base for mounting on 3/8"-27 threaded stand or fixtures. Max. dia. 2", 7 1/2" long. Base dia. 5". Finished overall in gleaming blue mist metallic lacquer with chrome trim. With attached 96" shielded cable. Shpg. wt. 4 lbs. No. 36A286. Special Each... **\$13.95**

### RUGGED DYNAMIC MICROPHONE

**LOOKS LIKE REAL EXPENSIVE SLIM LINE TV STUDIO MIKES!**

Not affected by high temperature or humidity. Especially suited for hard usage because of compact, sturdy case design. Beautifully proportioned for desk stand or floor stand. Instantly removable from swivel stand adapter for hand held "stick" mike applications; plenty rugged for P.A. paging, recording, conference setups, etc. Response 80-8,000 cps, output -56 db. High impedance. Has slide type on-off switch and detachable 6 ft. cable. Approx. 7 1/2" long, 1 1/4" dia. black and chrome finished. Very nice indeed. No. 29A409. Special Each... **\$7.95**

**\$7<sup>95</sup>**



**For Standard 3/8"-27 Stand or Hand Use**

### CARDIOID DYNAMIC MICROPHONE

**SINGLE DIRECTION PICK-UP DUAL IMPEDANCE**

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 off-on switch and detachable cable. Flat response 60-12,000 cps. Output -62 db. Swivel mounting for 3/8"-27 stands. No. 36B289. Special Ea... **\$13.95**

**BRAND NEW!**

**\$13<sup>95</sup>**

**HANDSOME NEW STYLING!**

**TERRIFIC PERFORMANCE**



### B-A LEADER VALUE MIKE FLOOR STAND

**\$5<sup>73</sup>**



**YOU CAN'T GET MORE STAND FOR THE MONEY**

**Holds ALL modern mikes without tipping—yet easy to use and move.**

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 mar 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. 32A3. Net Each... **\$5.73**



# 4-CHANNEL TRANSISTORIZED AUDIO-MIXER-AMPLIFIER



**FOR RECORDING-PA-AUDIO EXPERIMENTING**

**\$7.95**

**COMPARE AT OVER \$20.00**

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, phono pin plug. In gold finished case 5 7/8 x 2 3/4 x 2" H. with brown and gold knobs and mar-proof rubber feet. No. 29A411. Imported at Big Savings. Special Each..... **\$7.95**

# STUDIO QUALITY STEREO HEADPHONES

**ENJOY THE FULL REALISM OF STEREO AS ONLY POSSIBLE THRU PROFESSIONAL TYPE HEADPHONES**

**COMPARE AT \$25.00**



**\$14.95**

Provides the fullest dimension of sound with complete channel separation and finest tonal qualities obtainable. Each earpiece actually contains a high quality wide-range miniature dynamic speaker. Perfect for private listening to stereophonic high fidelity systems regardless of program source. Also fine for electronic organs. Comfortable to use with soft rubber head pad and earfitting cushions. Insures time spent using these phones one of privacy and utmost relaxation. Imp. 8 ohms. With 5 1/2 ft. cord and 3 way plug. No. 22A67. Import Special..... **\$14.95**

# HIGH QUALITY CRYSTAL HEADPHONES

Professional quality to meet laboratory standards while priced within the range of ham, experimenter, hi-fi hobbyist, etc. Exceptional flat response from 65-13,000 cps. High impedance 85,000 ohms permits monitoring without appreciable effect on associated equipment. Adjustable double headband, chrome plated, covered with soft cushion-impedance plastic same as professional types used by airline pilots, etc. Cord with standard phone tips. Lightweight only 8 oz. Shpg. wt. 1 lb. No. 22A47. Import Special..... **\$5.95**

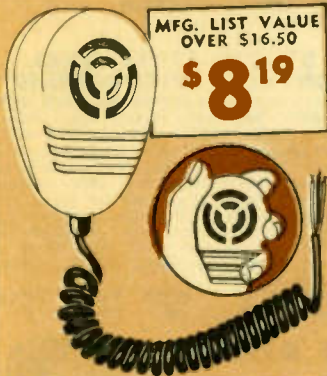


**LOWEST COST YET \$5.95**  
FREQUENCY RESPONSE 65-13,000 CPS.

# B-A's SPECIAL VALUE CERAMIC COMMUNICATIONS MICROPHONE

**IDEAL FOR CITIZENS BAND-AMATEUR**

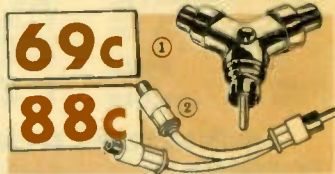
All the wanted features. Made to B-A specs by a leading American Microphone producer. Has coiled cord, press-to-talk relay switch, ceramic long-life cartridge. Best ever for replacement on CB and ham equipment. Fine for all the new mobile rigs. Response 80-7,000 cps. Output -54 db. 5 ft. coiled cord. Professional grey plastic case silver trim. Case only 3 3/8 x 2 1/2 x 1 1/2" T. With dash mtg. bracket. No. 29A277. Special Each..... **\$8.19**



MFG. LIST VALUE OVER \$16.50  
**\$8.19**

# POPULAR AUDIO "Y" ADAPTERS

① Two RCA type phono jacks connected in parallel to RCA type pin plug. Chrome finish, fully shielded. No. 17A692. Import Special, Ea..... **69c**  
② Two RCA type phono jacks connected in parallel and terminated into RCA type pin plug by 4" shielded cables. All connectors molded on to cable for durability. No. 17A696. Import Special, Ea..... **88c**



**69c**  
**88c**

# ALL-PURPOSE CRYSTAL MIKE

MFG. LIST OVER \$15.00  
**\$6.98**

From hand, to stand or lavalier in seconds! Truly versatile in application, too. Wide range 60 to 10,000 cps frequency response, high output of -54 db and all-directional pickup pattern are ideal for home recording, paging, lecturers, public address, ham stations, etc. Pleasingly proportioned case is gleaming black plastic with gold grille screen. Size 1 1/2" maximum diameter, 5 1/2" long. Supplied with 12 ft. attached cloth covered shielded cable, 3/8"-27 threaded stand adapter and lavalier neck cord. Shpg. wt. 1 lb. Made in U. S. A. No. 29A168. Special Each..... **\$6.98**



# "WALKIE-TALKIE" TWO-WAY TRANSISTOR RADIO

ONLY 2 1/2 x 5"—FITS POCKET OR PALM OF HAND

For everyone to use. Boating, hiking, hunting or around the home, farm, plant, even fine for police and firemen. Fully transistorized, battery powered. Press-to-talk, release-to-listen over built-in speaker. Has telescoping antenna, high impact shock resistant case. Wt. only 8 oz. No. 35A595. Special Each..... **\$24.95**  
21B141. Type 216. 9 V. Battery. 69c



**\$24.95**  
AMERICAN MADE  
REQUIRES NO LICENSE!  
RANGE UP TO 1/2 MILE!

# 4-TRANSISTOR HEARING AID

COMPARE WITH OTHER FIRST QUALITY INSTRUMENTS SELLING FOR UP TO \$195.00



**B-A'S AMAZING LOW, LOW PRICE \$29.95**  
COMPLETE WITH PENLITE BATTERY, EARPHONE CARRYING CASE



# CERAMIC MIKE

• NEW DESIGN AND FEATURES  
• NEW SENSATIONAL LOW PRICE

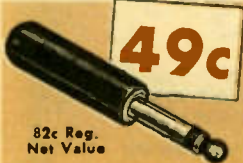
**\$3.49** U. S. A. MADE REG. \$8.00 MFG. LIST

Small enough, sensitive enough for concealing in pocket.

At last, the perfect mike for tape recording, public address, hams—what have you at a truly realistic price. Available for the first time with long-lasting ceramic element. Really rugged, not affected by high temperature or humidity. Small and lightweight... fits comfortably in hand, balanced and weighted to set squarely on desk. Amazing performance! Frequency response 60-8500 cps. Output level: -45 db. Sturdy tan plastic case, 2 1/4" H. x 2 1/8" W. x 1" T. Weighs only 3 1/2 ozs. including 5 ft. attached cable. Mfg. list value \$8.00. No. 20B600. Special, Net Each..... **\$3.49**

# HIGH QUALITY PJ-055B PHONE PLUG

BRAND NEW PRODUCTION! Not War Surplus Designed especially for critical communications equipment to meet military specifications. A superior plug for any use. Fits standard 1/4"-2 conductor jacks. Metal parts are brass, precision machined. Internal insulation is blue, latest low-loss high dielectric type. Complete with lug terminals and brass screws. Don't miss this opportunity to stock up at terrific savings. No. 18C897. Special Each..... **49c**  
10 Lots, Each... **44c** 100 Lots, Each... **39c**



**49c**

82c Reg. Net Value



# SAVE MORE ON THESE B-A SPECIALS!

## LOWEST PRICE EVER . . . RECORDING TAPES



• FINEST QUALITY • FULL RANGE • BY LEADING PRODUCER • SATISFACTION GUARANTEED

### STANDARD 1 1/2 MIL ACETATE TAPE

Standard 1200 ft. acetate base, brown oxide tape wound on clear plastic 7" reel. First quality, splice-free . . . equal to competitive brands selling for twice our price.

Stock up now at the low, low price.

7"-1200' Reel. **\$1.88** 5 Lots, **\$1.89**  
17A874. Each. Each.

5"-600' Reel. **\$1.29** 5 Lots, **\$1.19**  
11A621. Each. Each.

### LONG PLAY 1 MIL ACETATE TAPE

Extra-play 1800' acetate base, brown oxide tape on standard 7" reel. Provides 50% more recording and playing time than standard 1 1/2 mil on the same size reel. Finest quality. Meets the high standards required for professional and high fidelity recordings—for all uses. Your complete satisfaction guaranteed.

7"-1800' Reel. **\$2.75** 5 Lots, **\$2.47**  
17B875. Each. Each.

### LONG PLAY 1 MIL MYLAR TAPE

Extra-play, extra-strength 1800' Mylar plastic base recording tape on standard 7" reel. 50% more recording and playing time than standard 1 1/2 mil. Super strong dupont Mylar prevents breakage, lasts extra long for repeated playings. Not affected by temperature or humidity. Recommended for business or personal recordings to be kept over the years. 7"-1800' Reel. **\$3.29** 5 Lots, **\$2.97**  
11A626. Each. Each.

### DOUBLE-PLAY 1/2 MIL MYLAR TAPE

Twice the normal recording and playing time, 2400 ft. on standard 7" reel. Made of tough 1/2 mil Mylar to make possible extremely long uninterrupted recordings. For instance, plays 2 hours on single track, 4 hours on dual track at 3 3/4 ips with no increase in reel size. Guaranteed first quality, continuous length with 1 or 2 factory made bonds per reel. 7"-2400' Reel. **\$4.35** 5 Lots, **\$3.97**  
11A620. Each. Each.

## HANDY AUDIO AND RECORDING ACCESSORIES

### BULK TAPE ERASER

COMPARE AT \$39.95  
**\$16.95**



### IMPORT SPECIAL AT BIG \$\$\$ SAVINGS

Professional quality! Erodes a complete reel of tape quickly, easily and with greatest efficiency without rewinding. Simply place tape on reel on spindle of Eraser—takes just seconds. Permits improved, distortion free recordings by "quieting" tapes 3 to 6 db. Far better than erasing on the average recorder. Accommodates tape reel from 3" to 10 1/2". Size of unit 7 1/2 x 4 5/8 x 3 3/8" H. Operates on 117 V. 60 cy. AC. Also will demagnetize screwdrivers and other tools. Shpg. wt. 8 1/2 lbs.  
No. 17A628. Special Each. **\$16.95**

### SAVE! TAPE HEAD DEMAGNETIZER

#### EASY-TO-USE AID FOR BETTER TAPE RECORDING

Quickly rids recorder of one common cause of high noise . . . the accumulation of permanent magnetism in the recording, erase and playback heads. Simple to operate, with instructions. For 115 V. AC.  
No. 17A415. Import Special. **\$4.95**

**\$4.95**

SAVE AT LEAST HALF!



### PHONE PLUG TO PIN PLUG ADAPTOR

Adapts microphones, headphones, cables, etc. having standard 1/4" phone plug to fit RCA pin jack on equipment.  
No. 17A690. Imported Special Each. **69c**  
10 Each. **59c**

BARGAIN PRICED

**69c**

FULLY SHIELDED



### TWO-CHANNEL AUDIO MIXER

IDEAL FOR USE WITH TAPE RECORDER, HI-FI, PA, ETC., FOR MIXING VOICE WITH MUSIC

COMPARE AT \$4.50 OR MORE

Versatile unit makes possible the mixing of two sound sources such as two mikes, mike and phono, mike and musical instrument pickup, etc. Simply connect standard pin plug output into high impedance input of tape recorder or amplifier. Has two pin jack inputs each with its own level control. Small size, only 2 3/4" L, 1 3/4" W. Highest import quality.  
No. 17C702. Net Each. **\$2.95**

**\$2.95**



### CONTACT MIKE FOR MUSICAL INSTRUMENTS HIGHLY SENSITIVE CRYSTAL TYPE!

Operates with music or public address amplifier like an ordinary crystal mike, except designed for direct-mechanical contact to instrument. Provides brilliant tone over entire musical range. Fine for guitars, pianos, etc. High output crystal element is high impedance type. Housed in tiny gold anodized aluminum case 1 1/4" long, 3/4" wide with slotted attachment bracket. Has 6 ft. shielded cable and brass phone plug. Imported at great savings.  
No. 17B593. Special, Net Ea. **\$2.79**

**\$2.79**

\$\$\$ SAVING IMPORT VALUE



### PIN PLUG TO PHONE PLUG ADAPTOR

**69c**  
BIG VALUE



Convenient means of attaching RCA type phono plugs to amplifier or tape recorder having regular 1/4" dia. jack. Fully shielded. Highest quality American made.  
No. 17B879. Special Each. **69c**

10 Lots, **59c**  
Each. . . .  
**PIN PLUG JUNCTION JACK**

Simple method of interconnecting two cables having RCA type phono plugs. 59c value. Highest quality American made.  
No. 17A216. Special Each. **39c**

### TAPE RECORDER PATCH CORD

**99c**



For Recording Direct from Radio, Phono or TV. Flexible 72" two conductor cable with attached insulated alligator clips and RCA pin plug. Perfect for direct electrical connection from radio, phono or TV speaker voice coil to input of recorder. Assures much better results than from the usual sound coupling between speaker and microphone. Comes with pin plug to phone plug adaptor to fit any recorder. Beautiful import made.  
No. 17A321. Special Each. **99c**

### TELEPHONE PICKUP COILS FOR RECORDING SIMILAR UNITS NORMALLY SELL FOR 3 TO 4 TIMES OUR PRICE

• For Recording Conversations, Etc. • Requires No Wire Tapping. • No Special Circuits  
Makes possible recording phone conversations or loud speaking telephone when used with a standard recorder or mike amplifier. Connects in place of regular microphone. Highly sensitive and efficient magnetic induction coil picks up both sides of telephone conversations. Installs by slipping under-base of desk phone or by laying on top of ringer box of wall phones. Size 4 1/2" L, 1 1/2" W, only 1/4" thick. Shielded cable 56" long.  
No. 17B257. Net Each. **\$2.95**

TELEPHONE PICKUP COIL

**\$2.95**

### WITH JIFFY RUBBER SUCTION CUP

As above except conveniently attaches with suction cup to rear of any desk phone or on side of ringer box. Only 1" max. dia., 2" long with 5 ft. shielded cable.  
No. 17A811. Special Each. **\$1.69**





# FAMOUS AUDIO BOOK LIBRARY OF TALKING BOOKS

## THE BIBLE BROUGHT TO LIFE ON RECORDS

**\$19<sup>97</sup>**

MFG. LIST \$29.95



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 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 3 1/3 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 \$29.95.

No. 23C20. Per Album (26 Records) **\$19.97**

**NEW TESTAMENT**—Challoner-Rheims (Catholic) version complete and unabridged narrated by the Rev. Robert I. Gannon, S.J. Mfg. List \$34.95.

No. 23C22. **\$23.30**

Per Album (30 Records)

**OLD TESTAMENT**—9 books: complete and unabridged. Genesis, Judges, Esther, Ruth, Psalms, Proverbs, Ecclesiastes, Solomon, and Isaiah.

No. 23C8. Mfg. List \$29.95. Per Album (26 Records) **\$19.97**

**BOOK OF PSALMS**—Mfg. List \$6.95.

No. 23C19. Per Album (6 Records) **\$4.68**

**PROVERBS, ECCLESIASTES, THE SONG OF SOLOMON**—Mfg. List \$4.95.

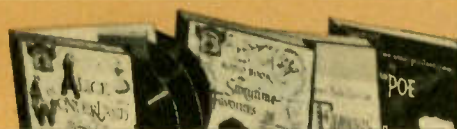
No. 23C149. **\$3.28**

Per Album (4 Records)

**BOOK OF JUDGES AND RUTH**—Mfg. List \$3.95.

No. 23C150. Per Album (3 Records) **\$2.62**

## "TALKING BOOK" STORY ALBUMS



All are recorded at 16 2/3 RPM, and can be played on any record player capable of operating at 3 1/3 RPM. Use of adaptor shown below, or on any 4 speed player.

Title	Stk. No.	Plays	Records	Mfg. List	Price
Alice in Wonderland	23C14	3 Hours	3	\$3.95	\$2.62
Children's Storytime Favorites	23C15	2 Hours	2	2.95	1.95
Child's Garden of Verses	23C25	1 Hour	1	1.49	.99
Rip Van Winkle	23C26	1 Hour	1	1.49	.99
Gulliver's Travels	23C1	1 Hour	1	1.49	.99
Wizard of Oz	23C27	5 Hours	5	5.95	3.97
Adventures of Robin Hood	23C6	3 Hours	3	3.95	2.62
Tales of Edgar Allen Poe	23C12	4 Hours	4	4.95	3.28
Famous Poems	23C13	4 Hours	4	4.95	3.28
Writings of Emerson	23C3	5 Hours	5	5.95	3.97
Trial of Socrates	23C28	3 Hours	3	3.95	2.62
Ben Franklin's Autobiography	23C4	8 Hours	8	8.95	5.97
Sonnets of Shakespeare	23C5	3 Hours	3	3.95	2.62
Kipling's Just So Stories	23C21	5 Hours	5	5.95	3.97
The Red Badge of Courage	23C31	6 Hours	6	6.95	4.63
Walden, Vol. 1	23C18	6 Hours	6	6.95	4.63
Treasure Island	23C17	8 Hours	8	8.95	5.97
Meditations of Marcus Aurelius	23C11	6 Hours	6	6.95	4.63
Dickens' A Christmas Carol	23C40	4 Hours	4	4.95	3.28
The Adventures of Pinocchio	23C41	5 Hours	5	5.95	3.97
Great Essays	23C30	8 Hours	8	8.95	5.97
Adventures of Tom Sawyer	23C147	9 Hours	9	9.95	6.69
Adventures of Sherlock Holmes	23C16	5 Hours	5	5.95	3.97
Writings & Speeches of Lincoln	23C35	8 Hours	8	8.95	5.97
Best of Mark Twain	23C7	4 hours	4	4.95	3.28
*The Time Machine	23A37	4 hours	4	4.95	3.28
*The Call of The Wild	23A38	4 hours	4	4.95	3.28

\*New Selections

## NEW BIBLE STORIES FOR YOUNG PEOPLE



### STORIES FROM THE OLD TESTAMENT

21 complete stories, including such favorites as Noah and the Ark, David and Goliath, Daniel in the Lion's Den, etc. Plays 2 hours. Mfg. List \$2.95.

No. 23C23. Per Album (2 Records) **\$1.96**

### STORIES FROM THE NEW TESTAMENT

26 complete stories, including The First Palm Sunday, Jesus and the Little Children, The Last Supper, Good Samaritan and many other favorites. Plays 2 hours. Mfg. List \$2.95.

No. 23C24. Per Album (2 Records) **\$1.96**

## SPECIAL 16 2/3 RPM ADAPTOR

All the Audio Book Records as shown here are recorded at 16 2/3 RPM. They can be played on any phonograph or record changer capable of operating at 3 1/3 RPM by use of this Adaptor. Simply place Adaptor on the turntable and play as any other phonograph record. Mfg. list \$1.95.

No. 23C10. Net Each **\$1.40**

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**THIS QUICK, EASY WAY—BY LONG-PLAYING RECORDS!**

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Choice of **6** DIFFERENT LANGUAGE COURSES

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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.

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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. Suggested list \$9.95.

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190

## SPECIAL PURCHASE MFG. LIST \$3.98

**Omega STEREO RECORDS**

**5 FOR \$1.88**  
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### HIGHEST QUALITY 33 1/3 RPM 12-INCH STEREO DISCS

A B-A Special Purchase makes possible these fabulous savings on famous "Omega" Stereo Records. Everyone brand new and perfect. Don't wait! Order today while they last at these prices. Please specify Stock No. 23C61 and Record No.



- Title and Artist**
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  - OSD-2. **The Playboy's Stereo Bedside Companion**—Sports Car Races, A visit to a Hindu Monastery, A Night at Jazz City, etc.
  - OSL-1. **Champagne Music for Dancing**—Werk style. Bubbles in the Wine, Till the End of Time, Josephine, etc.
  - OSL-7. **Jungle Echoes**—Chaino and His African Percussion Safari. The Jungle Chase, Jungle Drum Variations, Torture of the Mau Mau, etc.
  - OSL-11. **The Hi-Lo's in Stereo**—With Frank Comstock's Orchestra. Birth of the Blues, Summertime, Long Ago and Far Away, etc.
  - OSL-16. **Salute to Tommy Dorsey**—The Boy Big Band. I'll Never Smile Again, Hawaiian War Chant, Daybreak, etc.
  - OSL-18. **Salute to The Glenn Miller Orchestra**—The Boy Big Band. American Patrol, In The Mood, Tuxedo Junction, etc.
  - OSL-19. **The Forties**—The Boy Big Band featuring tunes by Benny Goodman, Eddie Sauter, etc. Let's Dance, Air Mail Special, and The Angels Sing, etc.
  - OSL-20. **Latin Beat**—The Boy Big Band. Mambo Jumbo, Cherry Pink, etc.
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  - OSL-34. **Hawaiian Enchantment For Dancing**—George Poole Orchestra. Pagan Love Song, Beyond The Reef, Song Of The Islands, etc.
  - OSL-37. **Pink Champagne**—Lloyd Mumm and Orchestra. Teo For Two, Elmer's Tune, Smoke Gets In Your Eyes, etc.
  - OSL-38. **Strauss Waltzes and Polkas**—Emperor Waltz, Zappert Palka, Thousand And One Night Waltz, etc.
  - OSL-55. **Strings Around The World Vol. 2**—Sleepy Lagoon, Tenderly, How Deep Is The Ocean, etc.
  - OSL-8. **Stravinsky-Petrouchka**—Cento Soli Orchestra of Paris, Rudolph Albert Conductor.
  - OSL-27. **Big Sounds By The Boy Big Band**—Compositions by Stan Kenton, Pete Rugolo and others. How High The Moon, Eager Beaver, The Peanut Vendor, etc.
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  - 5125. Beautiful Viennese Waltzes.
  - 5073. Music Made Famous by Glenn Miller.
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- 5169. Round Up Time For Kiddies. Children's "Cowboy" Favorites.
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- 5118. The Mighty Pipe Organ.
  - 5160. Barrel House Piano.
  - 5037. Honky Tonk Piano, all time favorites.
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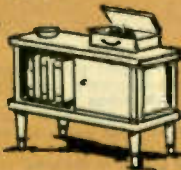
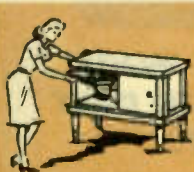
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**BEAUTIFUL  
MODERN  
STYLING**



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**\$11.88**

Choice of  
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Oak or  
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**HOLDS UP TO 150  
12-IN. RECORDS**

Low cost, handsomely styled record cabinet stores up to 150 12" records. Compact, low boy design makes it ideal for limited space areas such as recreation rooms or dens. . . . serves as lamp or end table. Snap out record dividers are easily removed for all kinds of storage use. Has full view sliding doors with brass door pulls. Supplied knocked down in handy "carry-ing-case" carton. Easily assembled in just minutes—requires no tools, bolts or screws. Sturdy hardwood and wood construction. 24" W, 18" D, 22<sup>1</sup>/<sub>2</sub>" H. Shpg. wt. 18 lbs.  
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**PRECISION MADE  
ITALIAN IMPORT**

REGULARLY  
SELLS FOR  
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**\$30.00**

**\$16.95**

**PLAYS STEREO  
AND  
MONAURAL**

**PLAYS ALL  
RECORD SIZES  
AND SPEEDS**

- 7, 10, AND 12 INCH
- 78, 45, 33<sup>1</sup>/<sub>3</sub>, 16<sup>2</sup>/<sub>3</sub> RPM

**PLUGS INTO HI-FI AMPLIFIER  
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Finest made, smoothest operating manual record player available for the money! This B-A Special Value has no equal . . . anywhere! Was precision made by Italian Craftsmen to sell for much, much more! A lucky import special makes it available at great savings. Here's what you get . . . features found on no other manual player. Automatically disengages drive at end of record play . . . no flat spots, no thumps to mar reproduction. Automatic start and stop—simply move tone arm to right to start—player shuts itself off at end of record. Precision balanced, heavy weighted turntable with rubber platter protector revolves on ball-bearing spindle. Lightweight pickup arm is equipped with top quality Lesa Model U turnover crystal cartridge with instant selection for playing either monaural or stereo records. Has 4 speed selector, hold-down for arm and needle protection to prevent damage while carrying, and two attached shielded 54" leads for connection to any phono amplifier, recorder, radio or TV equipped for phono input. Fully assembled on neat beige two-tone molded base only 12 x 8 x 3<sup>3</sup>/<sub>4</sub>" H. Overall height approx. 5". Wt. 7 lbs. For 115 V. 60 cy. AC. No. 31A68.  
Special Each.....**\$16.95**





# 20-WATT PUSH-PULL HI-FIDELITY AMPLIFIER

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### REAL TOP QUALITY AMERICAN MADE



### USES FAMOUS EL84 AUDIO TUBES



**DO NOT CONFUSE WITH REGULARLY LOW PRICED AMPLIFIERS. THIS IS A FIRST QUALITY UNIT MADE POSSIBLE AT THIS FANTASTIC LOW PRICE ONLY BECAUSE OF B-A'S LARGE PURCHASING POWER. YOU MUST BE SATISFIED OR YOUR MONEY BACK.**

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The buy of a lifetime! Full 20 watts of power using the famous EL84 tubes in push-pull for the output. Strictly a sign of modern design and quality. Plus completely equalized preamplification to handle your sound source be it magnetic cartridge or tape head, with inputs for ceramic cartridge or tuner. Popular "Low Boy" styling with rich brush brass finished face plate makes handsome appearance to fit any decor. Custom mounts in cabinet or wall, or sets in bookcase or on table top.

**Specifications:** Power output: 20 watts. Harmonic distortion: 1% at 1000 cps. Intermodulation distortion: less than 3% at 12 watts. Frequency response:  $\pm$  1 db 20-20,000 cps. Power bandwidth: 10 watt 35-20,000 cps. Hum and noise: tuner input -72 db; phono -52 db below rated output. Damping factor 4.5. Controls (5): 1-selector-aux-tuner-NARTB tape, RIAA phono, crystal phono; 2-loudness contour on-flat; 3-loudness; 4-bass -12 db to flat to +8 db at 50 cps; 5-treble -12 db to flat to +8 db at 10,000 cps. Input sensitivity: Aux, tuner, -.55 volt, mag. phono -.0045 volt, tapehead -.0055 volt, crystal phono -.25 volt at rated output. Output impedances: 4, 8, 16 ohms and high impedance for tape recorder. Tubes: 2-12AX7, 2-EL84/6BQ5, 1-6BW4. Fused output AC outlets.

For 110-120 volts AC 50-60 cycles. Size 11" W, 4" H, 7 1/2" D. Shpg. wt. 10 lbs. Net Each..... **\$29.95**  
No. 33A123.  
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### ABOVE AMPLIFIER PLUS \$24.95 STROMBERG-CARLSON 8-INCH SPEAKER **\$39<sup>95</sup>**



**Speaker Specifications:** Famous Stromberg-Carlson RF-480 featuring exclusive slim-line design. Only 3 1/4" deep to fit conveniently in cabinet of user's choice. Provides unbelievable tonal range and power handling capacity for its size. Rated 18 watts, frequency response 30 to 17,000 cps. 100° dispersion. Free air resonance 80 cps  $\pm$  5 cps. Total flux in air gap 29,700 lines. Impedance 8 ohms. A popular seller at the regular \$24.95 price.

B-A Amplifier (Less Top Cover) Plus Stromberg-Carlson Speaker. Shpg. wt. 15 lbs. No. 33A119 Special Only..... **\$39.95**  
Top Cover for Amplifier. No. 33A124 Each..... **\$4.95**

## TOP QUALITY COMPONENTS WOULD NORMALLY SELL FOR OVER \$100.00 EACH

### 34 WATT STEREO AMPLIFIER



- Advanced Engineering
- Famous EL84 Output Tubes.
- Freq. Response 20-30,000 cps.
- 48 Watt Peak Music Power.
- Modern Low-Boy Design.

This B-A special purchase achieves the highest quality standards of precision engineering and exceptional construction providing for the finest in performance. Presents a real treasure find for the economy-minded music lover.

Delivers an amazing 34 watts stereo output—17 watts per channel—for driving the speakers or speaker systems of your choice. For monaural operation, just flick of a switch provides a full 34 watts of power.

Dual preamp control section incorporates only the most essential controls for obtaining optimum performance with true simplicity. Features balance-control for perfect stereo spread and effect; separate full range bass and treble controls; contour control for improved tone at low listening levels; channel reversing switch; and function/mode switch for selecting sound source—tuner, NARTB tape, RIAA phono, old LP's and 78's and aux.

**Specifications:** Power output: 34 watts (48 watt peak); 17 per channel. Frequency response:  $\pm$  1 db 20 to 30,000 cps. Minimum distortion with multiple feedback loops. Signal-to-noise ratio: minimum volume —80 db; phono input —60 db. Sensitivity: magnetic inputs 4.1 mv; tape 2.2 mv; tuner and aux. 100 mv for 17 watts. Outputs: speakers 4/8/16 ohms; and tape recorder. Inputs: magnetic tape or phono; lo/hi level ceramic; tuner; and auxiliary. Tubes 5-ECC83, 4-EL84, 2-EZ81. AC convenience outlet in rear. Beautiful low boy styling completely enclosed with top cover. Size 4 1/2" H. x 14 1/2" W. x 10 3/4" D. Operates on 110-120 V. 60 cy. AC. Shpg. wt. 20 lbs. No. 31A207. Special Each..... **\$59.95**

No. 31A207. Special Each..... **\$59.95**

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### SAVE EVEN MORE BUY BOTH FOR ONLY **\$114.95**

### AM-FM STEREO TUNER



- Automatic frequency control for drift-free reception.
- Separate reception of FM and AM.
- Soft back-lighted precision tuning controls.
- Handsome majestic styling.

Rich elegant styling combined with magnificent performance distinguishes this tuner from all others. Carefully and ingeniously designed for outstanding range, sensitivity and drift-free operation. Truly majestic and masterful in design featuring soft back-lighted tuning dials that glow gently to indicate section or sections in use. Receives FM and AM bands separately for regular broadcasts, simultaneously for stereo broadcasts. Also may be used for dual radio reception where two separate speaker systems are placed in different rooms or locations. Includes output jack multiplex adapter.

FM section of wide band high sensitivity design utilizing a radio detector for low distortion preceded by a limiter to minimize impulse noise. Automatic frequency control (AFC) provided with defeat switch so distant stations can be more accurately tuned. FM sensitivity 3 microvolts. FM bandwidth 250 KC. Frequency range 20-20,000 cps.

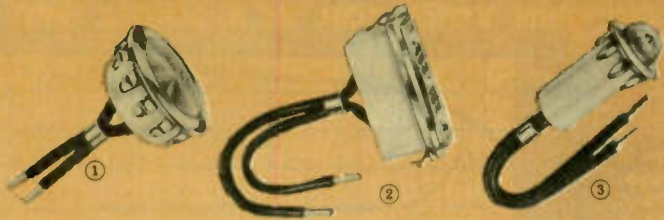
AM section uses low distortion crystal detector circuit and wide IF band pass to assure highest quality reproduction. Oversized ferrite rod antenna brings best reception even in difficult areas.

Tubes: 6T8, 3-6AU6, 6AL5, 6BE6 and 6BA6 plus diode detector and selenium rectifier. Power transformer provides isolation and filament voltage. Operates on 110-120 V. 60 cy. AC. Attractive low-boy styling, completely enclosed with top cover included. Size 4 1/2" H. x 14 1/2" W. x 8 3/4" D. Shpg. wt. 10 lbs. No. 31A201. Special Each..... **\$59.95**

No. 31A201. Special Each..... **\$59.95**



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- **AMAZINGLY LOW-PRICED... AT FAR LESS THAN OLDER TYPES**
- **COMPLETELY ASSEMBLED WITH LONG-LIFE NEON BULBS**

Three popular new styles give hi-fi, ham, commercial, etc. equipment a brand new modern look. Just snaps in—much simpler, much faster than older type assemblies. Beautiful chrome trim. 10" flexible leads. 110-120 V. AC.

① **1-INCH ROUND.** Fits panel  $\frac{1}{8}$  to  $\frac{1}{4}$ " thick. Requires  $\frac{7}{8}$ " depth. Specify Red, Amber or Clear.

No. 17C312. **59c** 10 Lots **54c** 100 Lots **49c**  
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③  **$\frac{1}{2}$ -INCH ROUND** with attractive inside fluted lens. Fits  $\frac{3}{4}$  to  $\frac{1}{8}$ " panels. Requires  $\frac{1}{2}$ " depth. Specify Red, Amber or Clear.

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**SPECIAL**  
**\$11.95**

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Sorry, we can't mention the famous makers name, but once you see it you will immediately recognize it as one of the nations most acceptable for stereo high-fidelity reproduction. Current model with genuine diamond .7 mil stylus for playing all records—stereo and monaural. Frequency response 20 to 17,000 cps. Tracking pressure 4 to 7 gram. Mounts in any tone arm with standard  $\frac{1}{2}$ " mounting centers.

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## RONETTE CRYSTAL TURNOVER CARTRIDGE



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WITH DIAMOND  
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B-A saves you dollars on this extremely popular cartridge same as used in hundreds of famous-make hi-fi phonographs. Turnover type with dual sapphire stylus for playing all records—monaural and stereo. Frequency response 30 to 14,000 cps. 4-6 grams tracking pressure. Standard  $\frac{1}{2}$ " mtg. centers.

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WITH DIAMOND STYLUS for stereo and monaural long-play records, sapphire stylus for 78 RPM records. Reg. \$10.98 net value.

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## VARIABLE RELUCTANCE STEREO CARTRIDGE PLUS PROFESSIONAL TONE ARM



**BOTH ONLY**  
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Amazing value! Stereo cartridge is the famous GE Model GC-5 designed especially for professional tone arms. Has genuine diamond .5 mil stylus for playing all long-play records—stereo and monaural. Frequency response 20 to 20,000 cps. 2 to 4 grams tracking pressure. 12" professional tone arm is single pivot type with fluid damping. Single base flange mtg. Plug-in type cartridge head.

No. 22A357. **\$12.98**  
Spec., Comb. Offer

With Learn-to-play record



## BONGO DRUMS

\$9.95 Spec., **\$7.47**  
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Authentic Mexican Bongo Drums and "Learn to play" record by Mr. Bongo himself Jack Constanza. Enjoy hours of exciting entertainment... lots of fun for everyone. Standard size, made of hardwood and covered with heavy natural skins just like used with Latin Bands. Shpg. wt. 3 lbs.

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LOWEST  
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**\$2.49**

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. Every one carries full one year guarantee. Buy now.

① **General Electric RPJ-013A Stylus Assembly.** Replaces RPJ-010 3 mil sapphire tip and 1 mil diamond tip. 60B128. Special, Net Each... **\$2.49**

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**BIG VALUE!**  
**STYLUS PRESSURE GAUGE** **88c** COMPARE AT \$2.50

A must for everyone who owns a record changer. Dynamically balanced with precision counterweight for highest accuracy, with no springs, cams or levers to recalibrate. Measures stylus pressure from 2 to 10 grams in 1 gram steps. Easier to use and more precise than gauges costing at least three times as much. Comes complete in clear plastic tube with instructions. Highest quality import value.

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## NYLON JACKET SHIELDED AUDIO CABLE FINEST CHOICE FOR HI-FI PHONO AND PA HOOK-UPS, AUDIO PANELS, ETC.



25 Ft.  
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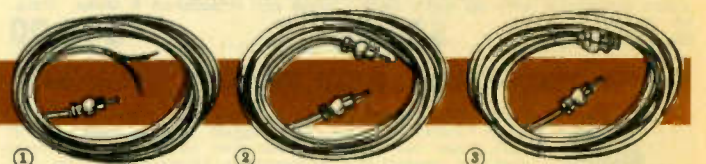
100 FT. \$1.50  
1000 FT. \$11.95

B-A special purchase brings this highest quality cable at a fraction of its regular value. Color selection enables color coding in audio panels, hi-fi component hookups, etc.

Wm. Brand "Supranat" size 20 stranded (7X28) tinned copper wire with  $\frac{1}{4}$ " PVC insulation, interior .008 nylon jacket, close woven tinned copper braid shielding and colored nylon sheath overall. 600 V., 105° C to -55° C.

Specify choice of color: Black, Red, Green, Yellow or Brown.  
No. 2A158. **49c** 100 **\$1.50** 1000 **\$11.95**  
25 Ft. For... Ft... Ft...  
5 Colors Assorted. 25' of each color as shown above. **\$1.95**  
No. 2A201. 125' in all, only

## HI-FI INTERCONNECTING CABLES



① ② ③  
Finest quality featuring Belden shielded silver-grey audio cable. Plugs and jacks molded directly with polyethylene for a more reliable trouble-free connection. 30 ft. length (marked with \*) uses Belden's lo-capacity (18 mmf. per ft.) shielded cable #8421 which permits longer leads without loss of high frequencies.

**PHONO PIN PLUG ONE END, STRIPPED & TINNED OTHER END**  
No. 17A853. 36". Each... **44c** No. 17A868. #30 Ft. Each... **\$1.69**  
No. 17A860. 72". Each... **59c**

**PHONO PIN PLUG BOTH ENDS**  
No. 17A865. 36". Each... **55c** No. 17A872. 10 Ft. Each... **89c**  
No. 17A866. 72". Each... **89c** No. 17A870. #30 Ft. Each... **\$1.99**

**PHONO PIN PLUG ONE END, PHONO JACK OTHER END**  
No. 17A867. 72". Each... **79c** No. 17A871. #30 Ft. Each... **\$1.99**

## SWITCHCRAFT ALL-SHIELDED PHONO CONNECTORS

Brand new practical design. Mates with standard RCA pin plugs and receptacles. Trim threaded brass shell completely shields circuits and serves as convenient "handle". Makes installation on shielded cable neat and easy. Has internal solder lug connections similar to high quality phone plug. Cable plugs have shell  $\frac{3}{8}$ " dia.,  $\frac{1}{4}$ " long. Type 3501FP mounts in  $\frac{1}{4}$ " hole in panels up to  $\frac{1}{8}$ " thick. Highest quality brass nickel plated construction.

① No. 12A195. Type 3502. Male Cable Plug. Net Each... **29c**  
② No. 12A196. Type 3503. Female Extension Jack. Net Each... **35c**  
③ No. 12A415. Type 3501FP. Chassis Jack. Net Each... **21c**



# BEYOND COMPARE . . . THE B-A TRI-O-SONIC



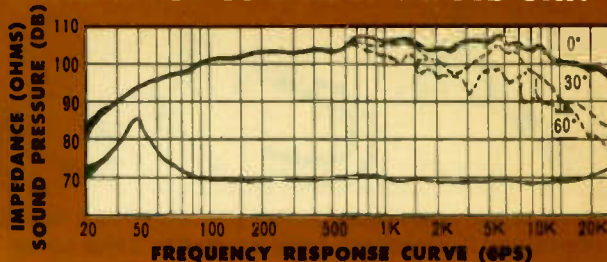
**3-WAY CROSSOVER NETWORK**



**MID-RANGE AND TWEETER Baffles**

**CONICAL STIFFENER**

**3 COMPLETELY INDEPENDENT SPEAKERS, EACH WITH ITS OWN VOICE COIL IN A SINGLE UNIT**



Full music hall realism can only be attained when each segment of the musical scale from the lowest bass through the crisp highs is given the proper emphasis.

This can only be accomplished by a true three-way system where each speaker is designed to efficiently reproduce its portion of the musical spectrum. The B-A Tri-O-Sonic combines within the frame work of the massive woofer an exceptional mid-range and an extended range tweeter. Each of these are completely isolated mechanically and electrically and are interconnected only through an extremely high quality impedance compensated 3-way crossover network. Terminals are incorporated for addition of brilliance control if desired.

Outstanding engineering design includes thermally baking on of Polyester resin on front and back of both tweeter and mid-range cone edge. This results in even propagation of treble and mid-range frequencies. Off-center mounting of tweeter and mid-range speaker provides smooth frequency response, eliminating any distortion caused by cone interaction. Frequency response 30-20,000 cps, crossovers at 1500 cps and 5000 cps, rated at 20 watts, 16 ohm V.C. impedance. Shpg. wt. 11 lbs. Size 9" deep, overall dia. 14".

No. 34C229. Net Each. **\$49.95**

**FULL 12 INCH**

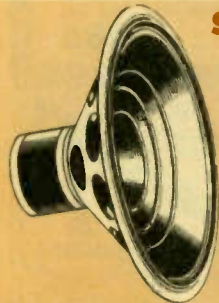
**QUALITY IMPORT VALUE**

**\$49<sup>95</sup>**

**FREQ. RESPONSE 30-20,000 CPS**

- Rugged die-cast frame.
- 12" wafer with heavy die-cast frame.
- 4" enclosed mid-range speaker.
- 2 3/4" tweeter with baffle.

## SPECTACULAR BUY! NORELCO 12-IN.



**\$72.50 VALUE**

**ONLY**

**\$24<sup>50</sup>**

**SUPER DELUXE HI-FI SPEAKER**

**FAMOUS TWIN-CONE DESIGN**

Why pay more when you can get the best for less? Compare with any speaker priced at \$70 to \$100 for truly convincing evidence of this great value! Norelco's finest speaker, latest improved version of the popular 9762M. Superbly engineered for finest sound reproduction as demanded by the most discriminating high fidelity enthusiasts.

Incorporates Ticonal VII, the most powerful of modern magnet alloys, with long air-gap and extra high flux density (11,000 gauss) for exceptional transient response, maximum efficiency (14% at 400 cps) and damping. Constant impedance assures flat response curve, frequency range very conservatively rated 35 to 18,000 cps. Employs two cones which are always in phase, operate in complete harmony, providing a wider, more effective distribution of sound. Power handling capacity, also conservatively rated, 20 watts continuous with 30 watts peak. Voice coil impedance 8 ohms. Shpg. wt. 10 lbs.

No. 34A204. Each. **\$24.50** 2 For. **\$45.00**

## WHARFEDALE 8-IN. HIGH FIDELITY SPEAKER



From Wharfedale, England's foremost manufacturer of High Fidelity Speakers. The biggest speaker value yet! 8" soft skiver full range speaker with heavy die-cast frame provides phenomenal performance. Outperforms units selling for considerably more.

Specifications: Voice coil diameter: 1". Impedance 12-16 ohms. Flux density: 10,000, total flux: 39,500. Double rib disc. Chassis: die-cast. Input watts 15. Baffle opening 7", depth 3 3/4". Freq. resp. 45-13,000 cps. Shpg. wt. 5 lbs.

No. 34A319. Net. **\$18.50** 2 For. **\$29.60**

## HI-FI SPEAKER ENCLOSURES AT AMAZING LOW COST!

**SENSATIONAL NEW DUCTED PORT DESIGN PROVIDES EXCEPTIONAL PERFORMANCE EQUAL TO LARGER, MUCH MORE EXPENSIVE UNITS**



**\$14<sup>97</sup>**

**2-WAY DESIGN FOR FLOOR, BOOKSHELF OR TABLE**

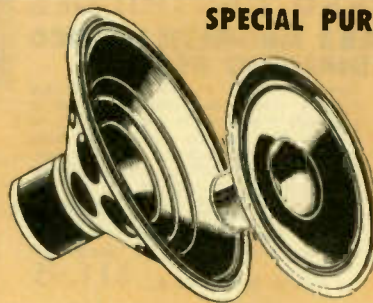
①



**\$18<sup>81</sup>**

**FINE FOR MONAURAL OR STEREO**

②



## SPECIAL PURCHASE! WORLD FAMOUS

**NORELCO TWIN-CONE HIGH FIDELITY SPEAKERS**

**REG. NET VALUE \$39.00**

**\$16<sup>88</sup>** 12-IN.

Out they go at the lowest cost ever! Never before anywhere a speaker of this outstanding high quality at such a low, low price. World famous for its incomparable high fidelity sound reproduction.

### NORELCO 12-INCH TWIN-CONE MODEL AD4200M

Latest improved model superseding the popular 9760M. Now better than ever. Special design extends the response curve a full octave above 10,000 cps. Employs two cones which are always in phase and complete harmony producing clean smooth wide range response 35 to 18,000 cps. Features new powerful Ticonal VII voice coil magnet for maximum efficiency and damping. Magnet wt. 17 oz. Flux density 8000 gauss. Power handling capacity 20 watts with peak to 30 watts. V.C. impedance 8 ohms. Shpg. wt. 7 lbs.

No. 34A210. Net Each. **\$16.88** 2 For. **\$32.50**

### NORELCO 8-INCH TWIN-CONE MODEL AD4800M

New improved version of the popular selling Model 9710M at big savings. Some famous design as above. Specs. are: frequency response 50 to 20,000 cps. Heavy 15 oz. Ticonal VII magnet. Flux density 13,000 gauss. Power handling capacity 10 watts peak. V.C. impedance 4-6 ohms. Reg. net value \$26.00

No. 34A216. Net Each. **\$11.88** 2 For. **\$22.50**

### NORELCO 5-INCH TWIN-CONE MODEL AD3500M

Amazing wide-range response and terrific power for its size. Provides true high fidelity performance. Especially well suited where only limited speaker space is available. Also use in multiples of 2 or more for truly fantastic results. Freq. response 130 to 19,000 cps. Heavy Ticonal VII magnet. Flux density 11,000 gauss. Peak power handling capacity 5 watts. V.C. impedance 4-6 ohms. Reg. net value \$8.34. Shpg. wt. 2 lb.

No. 22A46 Special Net Each. **\$4.88** 2 For. **\$8.50**

Best buys we've seen. New ducted port design extends the low end of the response curve, gives unusually rich wide-range hi-fi tone such as never before imagined from cabinets of this compact size and sensational low cost. Sturdy all wood construction. Covered in beautiful scuffproof "wood grain" pyroxylin giving wood appearance finish.

### ① "TALL-SLIM" ENCLOSURE FOR FLOOR OR BOOKSHELF

Designed for maximum flexibility. Includes 4 short legs for use as an attractive slim floor enclosure, or can be used without legs horizontally in bookshelf or on table. Top, bottom and two sides completely covered in pyroxylin. Internal capacity 2165 cu. in. Takes any 8" speaker individually or with tweeter. Size 24" W, 11" H, 10 1/2" D. Shpg. wt. 17 lbs.

No. 40A35. Mahogany. Choice Each. **\$14.97** 2 For. **\$27.50**

No. 40A36. Blonde

② ATTRACTIVE SPACE-SAVER ENCLOSURE

Styled to fit handsomely any decor while requiring only limited space. Takes any 12" or 8" (reducer ring included) speaker individually or with tweeter. Internal capacity 3 cu. ft. 27" H, 19 1/4" W, 13 1/2" D. Wt. 28 lbs.

No. 40A38. Walnut Choice Each. **\$18.81** 2 For. **\$36.00**

No. 40A41. Blonde



**B-A EXCLUSIVE SPECIAL PURCHASE**  
**WORLD RENOWNED**

**4-SPEED STEREO AUTOMATIC**  
**RECORD CHANGER**

**\$22<sup>95</sup>**

COMPARE THE  
FINE QUALITY  
AT \$59.95



**45 RPM**  
**SPINDLE**  
**INCLUDED**

**NO BETTER CHOICE FOR**  
**REPLACEMENT OF OUTDATED**  
**OR WORNOUT CHANGER OR**  
**BUILDING YOUR OWN PLAYER**

- Extremely efficient, smooth 4 pole motor.
- Heavy weighted constant speed turntable with rubber mat.
- Widely acclaimed R-

- 8 High Fidelity Turnover Stereo Cartridge.
- Foolproof, dependable, quiet changer mechanism.

Absolutely great! Never before a changer buy to compare. It's the world renowned "Perpetuum-Ebner" better known as the Rex, one of Europe's finest changers. Precision designed and built for extra dependable long-life service in automatically playing all records—all sizes—all speeds—monaural and stereo. Every part carefully selected to meet best performance standards. Records handled gently, quickly and positively. 4-pole motor plus weighted turntable for assured accurate, constant speed at 16 $\frac{2}{3}$ , 33, 45 or 78 RPM. Rubber mat provides fullest record protection.

All sizes intermixed—7", 10" and 12". Plays a large stack of records unattended with automatic shut-off after last record plays. Famous Ronette turnover stereo cartridge with long-life sapphire stylus for full fidelity wide-range reproduction of stereo and monaural records. Lightweight tone arm properly balanced for truest tracking.

Changer is most desired size for replacement or new installations. Measures 13" W, 10 $\frac{3}{8}$ " D, 4 $\frac{1}{4}$ " above and 3" below motor plate. Can be used for monaural as well as stereo systems. 110-120 V. 60 cy. AC. Less cord and phono leads. Handsome silver gray finish. **Better Buy Now** while B-A's Special Purchase Quantity Lasts at This Low Price. Shpg. Wt. 11 lbs. **\$22.95**

- No. 31A84. Special, Net Each.....\$22.95
- No. 31A86. Precut Mounting Board. Each.....\$1.46
- No. 31A87. Precut Mounting Base. Each.....\$3.87
- Card and Cable Kit—Consists of top quality 5 $\frac{1}{2}$  ft. AC cord and plug plus two 6 ft. shielded phono leads with pin plugs one end, stripped and tinned other end. No. 31A89. Special.....\$1.29

**TRANSISTOR-POWERED MEGAPHONE**

AMERICAN MADE

AMPLIFIES  
VOICE CLEARLY  
AND DISTINCTLY  
UP TO 1000 FT.  
AWAY



AMAZING VALUE  
**\$14<sup>95</sup>**

Extremely useful for sports, construction jobs, plants, group meetings, camps, etc. Easy to operate—just press the trigger and talk into high gain built-in microphone. Fully transistorized circuit provides ample volume up to 1000 ft.

**Unique for listening feature** . . . simply reverse horn bell for listening to remote conversations, bird calls, distant sounds, etc. Lightweight only 2 lbs. high impact, shock resistant case, 10 $\frac{1}{2}$ " long. Uses 6 standard 1 $\frac{1}{2}$  V. "C", photoflash batteries. Shpg. wt. 4 lbs. **\$14.95**

No. 34A320. Net.....\$14.95  
No. 34A321. Battery Kit for above. Net.....64c

**SPECIAL PURCHASE! STROMBERG CARLSON**

**HIGH FIDELITY 4-SPEED AUTOMATIC**  
**RECORD CHANGER**

COMPARE  
AT \$59.95  
AUDIOPHILE NET

**\$29<sup>50</sup>**

**SAVE UP TO**  
**\$25 MORE!**

Select from 3 Famous  
Stereo Cartridges  
for BONUS Savings!



Spring Damped and  
Counter-Balanced  
Transcription Type  
Tone Arm



**CUSTOM MADE FOR STROMBERG BY WORLD-FAMOUS COLLARO**

**FEATURE-PACKED FOR FINEST HIGH FIDELITY PERFORMANCE**

Made for Stromberg-Carlson by COLLARO world famous manufacturer for the finest in high fidelity record changers. Featured in Stromberg's famous component series of consoles in which all components were chosen for their unusual high standards of quality and performance. Now, a B-A Special Purchase makes this exceptionally fine changer available for considerably less than its regular value.

Has many exclusive features to distinguish it from all others. Transcription-type two-piece tone arm spring damped and dynamically counter-balanced. Varies tracking pressure between top and bottom record of the stack less than 1 gram as compared with 4 to 8 grams on others. Insures longer life for records and stylus. Feeler mechanism automatically finds, changes and drops record to turntable. Plays 7, 10 and 12" records of the same speed at one loading. Completely jamproof. Tone arm can be moved to any portion of the record for manual play. Also has automatic shut-off feature for both automatic and manual operation. Double muting switch provides absolute silence during fast 8 second change cycle. Extra-heavy flywheel action balanced turntable fitted with removable extra thick rubber turntable mat and driven by 4-pole heavy duty dynamically balanced induction motor for lowest possible wow and flutter. Automatic disengagement of idler

mechanism after last record eliminates flut spots on drive wheel.

Tone arm accepts any stereo or monaural cartridge of users choice. Adjusts to recommended pressure.

Beautiful two-tone silver grey and black. Size 12 x 13 $\frac{1}{2}$ " with 4 $\frac{1}{2}$ " above and 2 $\frac{3}{8}$ " below motor board. 110-120 V. 60 cy. AC. Less cord and phono leads. Shpg. wt. 14 lbs.

No. 30C121. Special Each (Less Cartridge).....**\$29.50**

With Top Rated Shure M7D Stereo Cartridge with diamond .7 stylus. Reg. \$23.52.

No. 30C124. Changer and Cartridge.....**\$34.50**

With GE VR 1000-7 Stereo Cartridge with diamond .7 stylus. Reg. \$24.45.

No. 30C126. Changer and Cartridge.....**\$34.50**

With Pickering 380-C Stereo Cartridge with diamond .7 stylus. Reg. \$29.89.

No. 30C128. Changer and Cartridge.....**\$34.50**

No. 30C123. Precut Mounting Board. Each.....\$1.46

No. 30C127. Precut Mounting Base. Each.....\$3.87

No. 30C122. 45 RPM Automatic Spindle. Reg. \$3.23. Spec. with Changer.....\$1.88

Card and Cable Kit—5 $\frac{1}{2}$  ft. AC cord and plug plus two 6 ft. shielded phono leads with pin plugs both ends.

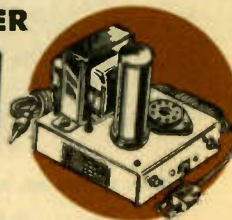
No. 30C129. Special.....\$1.59

**HIGH FIDELITY PHONO PREAMPLIFIER**

Provides extra stage of amplification for use with magnetic cartridges, tape players and microphones with amplifiers not having their own built-in preamplifier. Wide bandpass range (20-100,000 cps) insures perfect impedance match without distortion or loss of high fidelity sound. Has slide switch for selection of proper equalization. RIAA (phono) or tape. Beautifully made, chrome plated. Surpasses units selling for considerably more. Self-powered for 110-125 volts AC. Complete with 6SC7 tube. Shpg. wt. 2 lbs. **\$7.95**

**\$7<sup>95</sup>**

IMPORT VALUE  
COMPARE  
AT \$14.95



**FABULOUS BUY! 12-IN. HIGH FIDELITY SPEAKER**

**BUILT FOR WURLITZER BY MAGNAVOX**

- Freq. Response 30-15,000 cps. Handles 25 Watts Power.
- Beautifully Made . . . With a Special Design Deep Cone.

**\$9<sup>95</sup>**

**B-A SPECIAL PURCHASE**  
**QUANTITY LIMITED!**

**COMPARE AT**  
**\$25.00!**

A whole lot of speaker at considerably less than its usual value. Built by quality conscious Magnavox for Wurlitzer . . . world renowned for the finest in sound. Designed for top high fidelity performance with rugged heavy duty frame, special design deep cone and extra large 1 $\frac{1}{2}$ " voice coil for smooth reproduction over entire tonal

range. Extra heavy 6.8 oz. Alnico V magnet for high power 25 watt output. Provides unusually low bass response, sparkling crisp highs. Range 30-15,000 cps. V.C. imp. 16 ohms. Requires 5 $\frac{1}{2}$ " depth. Shpg. wt. 4 lbs.

No. 34A165. Special Each.....**\$9.95**

195





# SPECIAL PURCHASE SALE . . . SAVE OVER \$150.00

NOTHING DOWN

## BELL STEREO TAPE RECORDER

WAS \$319.95

**\$164<sup>95</sup>**

FOR THE NEW TAPE CARTRIDGES

AS EASY TO USE AS A RECORD PLAYER . . . JUST SLIP IN CARTRIDGE . . . AND FLICK SWITCH



HI-FI COMPONENT QUALITY STEREO AMPLIFIER/PREAMP

4-TRACK STEREO RECORD & PLAYBACK



Amazing simplicity, exceptional quality . . . combines the ultimate in high fidelity listening pleasure with the operational ease and convenience of an ordinary record player. All the wonderful advantages of music on tape now a reality in an instrument that every member of the family can use and enjoy. **MAKES STEREO AND MONAURAL RECORDINGS TOO!** Keep memorable occasions alive for years—birthdays, weddings, baby's first words **PLUS** hi fi recordings of favorite musicals, concerts, operas, etc. from radio (AM, FM or Multiplex), TV, records or other tapes.

So easy and convenient to operate. Loads in just two seconds. Just insert tape cartridge and flick the switch. No threading, no rewinding . . . fully automatic. Even stops at end of tape cartridge and shuts-itself off.

Up to a full hour of playing time. Records and plays at 3 3/4 ips on four sound tracks, two simultaneously. Plays first pair as tape moves in one direction, second pair by simply flipping cartridge. **Finest component quality stereo amplifier and pre-amplifier.** Assures highest standard of reproduction for exceptional high fidelity performance to please even the most critical music lover. Integrated units designed and built by Bell, one of the nation's foremost makers of high fidelity stereo components.

Record-playback preamplifier transistorized for noise and hum free operation. Professional VU meter to assure perfect recordings.

**Specifications:** Power output 14 watts, 7 watts per channel. Frequency response 30-15,000 cps. Controls: left volume, dual bass (+1) db, -16 @ 50 cps), dual treble (+6 db, -15 db @ 10,000 cps), right volume and monitor volume. Tubes: 4-6AQ5A, 1-12AU7, 2-12AX7/ECC83, 1-EZ81/6CA4 plus 9 transistors. Dual inputs (3) for magnetic phono, auxiliary (radio, TV, etc.) and low impedance microphones.

Use with Speakers of your choice. Has dual 8 ohm output for using with high fidelity speakers or speaker systems of your choosing. Master monitor control enables you to "listen-in" while recording. For a really compact, complete stereo music system we recommend two Jensen Model X-10 speaker systems described in detail on page 6.

Handsomely styled walnut cabinet has lift-up lid which reveals all controls, conveniently located on front panel. Size 9 3/4" H, 16" W, 15" D. 115-125 V. 60 cy. AC. Shpg. wt. 45 1/2 lbs.

No. 32B101. Model 405. (Less Speakers & Mikes) Each . . . **\$164.95**  
No. 36B289. Microphones for above. Each . . . \$13.95

BELL MODEL 403 FOR USE WITH YOUR PRESENT HIGH FIDELITY STEREO SYSTEM

WAS \$219.95

**\$113<sup>95</sup>**



Complete with same easy-to-use tape cartridge deck as with the Model 405 (see full description at left). Has 9 transistor dual record-playback pre-amplifiers for connecting directly into your present stereo high fidelity system, or console—nothing more needed for recording or playback. Has 3 dual inputs for recording from magnetic phono, radio tuner, TV or other tape recorder and low imp. mike. Volume control provided for each channel plus selector switch for all functions. Professional type VU meter to assure perfect recording. Handsome scuff-proof vinyl-clad steel cabinet. Size 6 3/4" H, 12 1/4" W, 11 1/2" D. 110-120 V. 60 cy. AC. Wt. 26 lbs. Mfg. List \$219.95.  
No. 32B100. Special Each . . . **\$113.95**

### SCOTCH TAPE CARTRIDGES

FOR ALL RCA AND BELL CARTRIDGE RECORDERS



560' of specially processed famous Scotch 150 tape on tough 1 mil Mylar base. Completely enclosed in plastic container free from dirt and handling, yet may be edited and spliced without removing cover. Mfg. List \$4.50. Type 8000.  
No. 11B619. **\$3.00** 12 @ **\$2.70**  
Net Each . . . **\$3.00** Each . . . **\$2.70**

## 4-TRACK STEREO TAPE CARTRIDGES

FOR USE WITH BELL AND RCA CARTRIDGE RECORDERS SUCH AS LISTED ON THESE PAGES

MOST CHOICE SELECTION FROM  
● RCA ● BEL CANTO ● LIBERTY

Convenient "drop-in" cartridges . . . highest quality pre-recorded stereo tape for thrilling "3-D" sound—provides full frequency response, minimum background noise and virtually distortion free reproduction. All are recorded at 3 3/4" per second.



MFG. LIST \$6.95 AS LOW AS **\$4<sup>98</sup>**

Please Specify Stk. No. 23A51, Mfg. and Tape No. when ordering.

#### CLASSICAL & SHOW TUNES

Title and Artist	Mfg.	Tape No.	List	Net
Oklahoma & Symphony for the Blues	Bel Canto-3	KST-13	\$6.95	\$4.98
Around the World in 80 Days	Bel Canto-4	KST-20	7.95	5.66
South Pacific	Bel Canto-9	KST-36	6.95	4.98
Theme From a Summer Place, Billy Vaughn	Bel Canto-26	KST-97	7.95	5.66
The Student Prince, Mario Lanza	RCA-17	KCS-4029	6.95	5.66
Concerto Under Stars, 101 Strings	Bel Canto-15	KST-64	6.95	4.98
Gaite Parisienne	Bel Canto-19	KST-74	6.95	4.98
1812 Overture & Capriccio Italian	Bel Canto-22	KST-79	6.95	4.98
Grand Canyon Suite, 101 Strings	Bel Canto-24	KST-84	6.95	4.98
Concerto No. 1 in B-Flat Minor, Op. 23, Tchaikovsky, Van Cliburn, Pianist	RCA-16	KCS-4021	6.95	5.56
Rhapsody in Blue, Fiedler, Boston Pops	RCA-18	KCS-4031	6.95	5.56
Wellington's Victory, Morton Gould & Orch.	RCA-19	KCS-4033	6.95	5.56

#### DEMONSTRATION, PERCUSSION, EXOTIC SOUNDS

Title and Artist	Mfg.	Tape No.	List	Net
Demonstration Tape	Bel Canto-1	KSTDX	\$3.95	\$2.99
Sound of Speed	Bel Canto-17	KST-71	7.95	5.66
Victory At Sea, London Phil. Orchestra	Bel Canto-18	KST-72	6.95	4.98
Exotica Vol. 1, Martin Denny	Liberty-2	KLT-7034	7.95	5.98
Exotica Vol. 2, Martin Denny	Liberty-1	KLT-7006	7.95	5.98
Quiet Village, Martin Denny	Liberty-4	KLT-7122	7.95	5.98
Exploring New Sounds In Stereo, Esquivel and Orch.	RCA-7	KPS-3060	5.95	4.76
More Music From Peter Gunn, From TV Soundtrack	RCA-8	KPS-3071	5.95	4.76
Dynamica, Ray Martin & Orchestra	RCA-14	KPS-3134	5.95	4.76
Percussion! Dick Schory's Per. Ensemble	RCA-10	KPS-3076	5.95	4.76
Runnin' Wild, Dick Schory's Per. Ensemble	RCA-15	KPS-3135	5.95	4.76

#### MUSIC FOR DANCING MOOD MUSIC & VOCALISTS

Title and Artist	Mfg.	Tape No.	List	Net
Symphony for Glenn	Bel Canto-2	KST-8	\$7.95	\$5.66
Symphony for Tommy Dorsey	Bel Canto-5	KST-27	7.95	5.66
Dance Hits of 30's & 40's	Bel Canto-6	KST-30	6.95	4.98
Honeymoon In Paris	Bel Canto-7	KST-33	6.95	4.98
Hawaiian Luau	Bel Canto-8	KST-35	6.95	4.98
Mr. Music Maker, Lawrence Welk	Bel Canto-10	KST-57	7.95	5.66
Billy Vaughn Plays the Million Sellers	Bel Canto-11	KST-58	7.95	5.66
Blue Hawaii, Billy Vaughn	Bel Canto-13	KST-60	7.95	5.66
Sail Along Silly'ry Moon, Billy Vaughn	Bel Canto-14	KST-62	7.95	5.66
Voices and Strings of Lawrence Welk	Bel Canto-16	KST-67	7.95	5.66
The Great Standards, 101 Strings	Bel Canto-20	KST-76	6.95	4.98
Symphony for Lovers, 101 Strings	Bel Canto-21	KST-78	6.95	4.98
Hit American Waltzes, 101 Strings	Bel Canto-23	KST-81	6.95	4.98
The Quiet Hours, 101 Strings	Bel Canto-25	KST-86	6.95	4.98
Chet Atkins' Workshop	RCA-12	KPS-3116	5.95	4.76
Mister Guitar, Chet Atkins	RCA-2	KPS-2012	4.95	3.96
The Other Chet Atkins	RCA-13	KPS-3124	5.95	4.76
Ralph Flanagan In Stereo	RCA-1	KPS-2003	4.95	3.96
Mancini Touch, Henry Mancini & Orchestra	RCA-11	KPS-3079	5.95	4.76
New Miller Dorch In Stereo, R. McKinley	RCA-3	KPS-3007	5.95	4.76
Music for Relaxation, Melachrino Orchestra	RCA-4	KPS-3020	5.95	4.76
Love In the Afternoon, 3 Suns	RCA-5	KPS-3033	5.95	4.76
Twilight Memories, The 3 Suns	RCA-9	KPS-3075	5.95	4.76
Stardust, Pat Boone	Bel Canto-12	KST-59	\$7.95	\$5.66
Lawrence Welk Glee Club	Bel Canto-27	KST-99	7.95	5.66
Julie Is Her Name, Julie London	Liberty-3	KLT-7100	7.95	5.98
Belafonte At Carnegie Hall	RCA-20	KPS-6002	5.95	4.76
Love of God, George Beverly Shea	RCA-6	KPS-3050	5.95	4.76



# EXTRAORDINARY \$\$\$ SAVING SALE

**TAPE  
TRANSPORT**

**SPECIAL  
PURCHASE**

**STEREO  
TAPE  
RECORDER**

**WITH THE REVOLUTIONARY NEW DROP-IN TAPE CARTRIDGE**



**35TH ANNIVERSARY SPECIAL**

**ORIGINALLY SOLD FOR \$349.95**

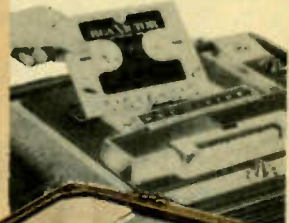
**\$119.50**  
NO MONEY DOWN

**GREATEST EXCLUSIVE  
B-A OFFER EVER!**

**NEVER BEFORE A RECORDER  
SO EASY TO USE!**

- No Threading • No Rewinding

Tape cartridge slips into place as easy as a record slips on a spindle. No threading — no reversing of tapes. Provides up to two full hours of uninterrupted playing with automatic shut-off at end of cartridge. Simple enough for even a child to use.



**For Adding  
TAPE PLAYER  
To Stereo Hi-Fi  
Component  
System or  
Console**

**\$139.50 VALUE**

**\$59.50**

IDENTICAL PROFESSIONAL QUALITY, PRECISION ENGINEERED TAPE TRANSPORT AS FEATURED FORMERLY IN RCA'S \$349.95 MODEL SCP-3 TAPE RECORDER. A terrific value at B-A's sensational low cost. Comparable units usually sell for \$139.50 and upwards.

Opportunity of a lifetime for adding tape to your present high fidelity system at less than the cost of a good quality record changer.

**Plays Stereo Tape Cartridges** such as shown on opposite page. Hundreds are already available featuring the country's greatest recording stars with new releases being made regularly. Operates with any component system or console in which built-in or separate preamplifiers are provided for tape player. Use preamplifier such as listed below for others. Also records stereophonically or monaurally when used in conjunction with a recording amplifier. **So Easy To Operate** just "drop-in" tape cartridge and play. No threading—no rewinding. Fully automatic for uninterrupted playing—reverses itself. Automatically shuts-off at end of tape cartridge. Push-button controls for all functions: start, stop, fast forward, fast rewind, and track selection. Digital type "Program" indicator for locating any desired portion of tape cartridge. "Window" indicator shows at a glance track operating.

**Automatically Plays All Four Tracks** of a tape cartridge at 3 3/4 ips. Provides up to one full hour stereophonically, two full hours monaurally.

**Precision Engineered and Finest Quality Built** for optimum high-fidelity reproduction. Has separate record/playback and erase heads. Size 12" W, 13 3/8" D. Requires 1 1/2" above and 9 1/2" below deck. Supplied complete with interconnecting cables for plugging into existing amplifiers. Complete with two tape cartridges, one pre-recorded and one RCA blank. Operates on 115 V. 60 cy. AC. Shpg. wt. 28 lbs. Handsome beige finish. **\$59.50**

No. 32C53. Special Each.....

**WOOD BASE** pre-cut for tape transport above. Heavy 1/2" plywood top and 3/8" slides covered in handsome scuff-resistant brown leatherette. Non-marring feet. Space allowed on top for recording preamplifier. Shpg. wt. 10 lbs. **\$8.95**

No. 32C80. Special Each.....

**PLAYBACK PREAMPLIFIER.** Permits use of above tape transport with amplifiers requiring extra stage of preamplification. Has slide switch for selecting proper equalization. Self-powered for 110-125 volts AC. Requires 2 for stereo. Shpg. wt. 2 lbs. No. 17A876. **\$7.95** For **\$14.95**

Special Each.....

**2-CHANNEL STEREO RECORDING AMPLIFIER**

A professional quality two channel stereo recording amplifier designed to match the Tape Transport listed above. Engineered to meet broadcast specifications with two low level microphone inputs —55 db and 2 high level tuner inputs, 1 volt. Frequency response equalized to provide flat response ± 1 db, 30 to 15,000 cps. Harmonic distortion, 2% max. The double channel recording amplifier is packaged for custom mounting by front panel. Panel size 3 1/2" wide, 11" high and 5 1/2" deep. Uses 5 tubes, 3-12AX7, 2-12AX7 and silicon rectifier. Concentric recording volume controls independently regulate recording level, as observed by two neon indicators. A separate record/playback switch controls heads and erase currents. Supplied complete with matching plug to connect to tape transport, instructions and schematic. Operates from 110-120 V. 60 cps. AC. Space provided for mounting in accessory base beside Tape Transport. Shpg. wt. 6 lbs. **\$59.50**

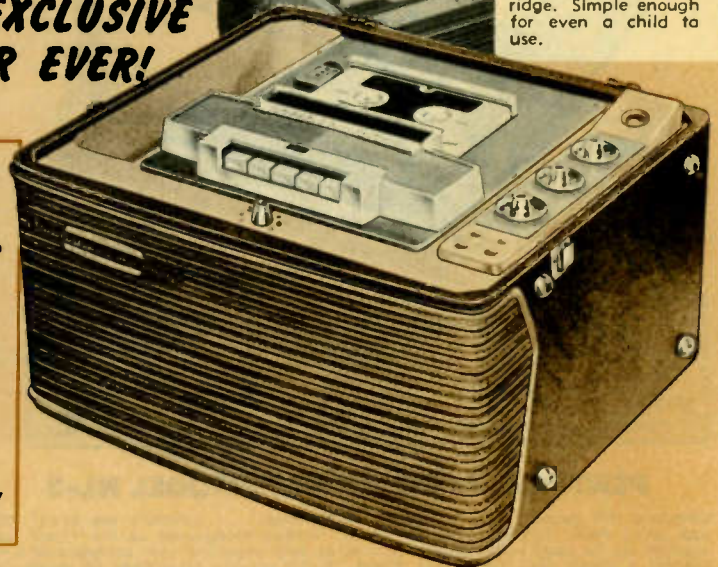
No. 32C77. Net.....

**FOR EXTRA  
SAVINGS  
AND FUN ...**

**ASSEMBLE IT  
YOURSELF**

**EASILY DONE BY  
ANYONE IN  
MINUTES**

**All components  
wired and ready  
to operate**



**4 TRACK STEREO AND MONAURAL RECORD/PLAYBACK**

Most exciting \$\$\$ saving value we have seen! Not another recorder to compare at less than 2 to 3 times B-A's unbelievable low price. The tremendous savings made possible by B-A's acquisition of the entire remaining inventory of major components (amplifier, tape transport, and case) formerly used in the assembly of the RCA \$349.95 Model SCP3 stereo tape recorder. Both the amplifier and the tape transport are completely wired, assembled, tested and ready for operation. Need only be mounted in the carrying case and plugged together by the interconnecting cable assemblies supplied. Easy-to-follow instructions and all hardware are included for quick, simple assembly which is easily accomplished by anyone in a matter of minutes. Nothing more needed, except the speakers and microphones for exactly duplicating the original factory assembled \$349.95 recorder.

**Simplified Push-Button Controls** makes recording and playback easier than ever. Just press a button for start, stop, fast forward, fast reverse and track selection.

**Master Control Panel.** Includes: push-pull on-off dual loudness control with provision for automatic or standby operation; dual tone control; function selector (AUX-STR-MON); and play-record switch. Magic-eye record level indicator assures proper volume setting while recording.

**Fully Automatic Tape Transport.** Handles tape cartridges with unusual precision and convenience. Records and plays back on four sound tracks of 3 3/4 ips. Uses two tracks simultaneously for stereo, one track for monaural. Automatically reverses direction at end of each track providing up to one full hour of uninterrupted playing stereophonically, two full hours monaurally. Automatically shuts-off at end of cartridge. Convenient "window" indicator shows at a glance track playing. Digital type "Program" indicator provides fast, easy "location" of any portion of tape cartridge. Has separate record/play and erase heads. Specially designed for optimum high fidelity reproduction.

**Record/Playback Amplifier** with transistorized pre-amplifier provides exceptional high fidelity perfor-

mance. Combines on a single compact chassis the two amplifiers and preamplifiers needed for stereophonic sound. Delivers amazing power with a maximum output of 12 watts. Frequency response with speaker system such as shown below, 50 to 15,000 cps. Capable of even greater range when used with larger, more expensive speakers. 6 tubes (3-12AX7, 2-6V6GT, 1-6CG7), 2 transistors, plus 1 tube (5Y3GT) rectifier and 1 selenium rectifier. Balance control provided for balancing volume of the two channels on stereo playback. Equipped with 2 pairs of input jacks for recording stereophonically or monaurally from microphone, phonograph, radio or TV. Will record multiplex and FM-AM stereo broadcasts. Output jack incorporated for external speaker system to provide second channel for stereo playback. Comparable record/playback amplifiers sell for over \$80.00.

**Beautiful Durable All Wood Carrying Case.** Covered in scuff resistant two-tone brown and beige. Mounting board of heavy 1/2" plywood. Size 12" H, 20" W, 17" D. Storage compartment for microphone and up to 6 tape cartridges. Pre-recorded tape cartridge included. Operates on 115 V. 60 Cy. AC. Complete satisfaction guaranteed or your money back. Shpg. wt. 63 lbs. **No. 32C73. Complete Kit (Less Speakers & Microphones)..... \$119.50**

**CUSTOM SPEAKER SYSTEM.** Mounts right into existing openings in carrying case. Consists of heavy duty 8" Alnico V woofer and two 3 1/2" tweeters. Provides wide-range reproduction 50 to 15,000 cps. Performs function of one audio channel. Requires additional external speaker system for stereo. Shpg. wt. 6 lbs. **No. 32C74. Complete Speaker System..... \$8.95**

**SENSITIVE CERAMIC MICROPHONE.** Small and lightweight, fits comfortably in hand or sits on table. Includes 5 ft. attached cable and plug. Two required for stereo recorder. **No. 20B600. \$3.49** For **\$6.63**



# BEST BUYS EVER... TAPE RECORDERS

NEVER BEFORE A RECORDER OF SUCH VERSATILITY, PROFESSIONAL QUALITY AND FEATURES PRICED SO LOW

MFG. LIST \$269.95  
**\$139<sup>50</sup>**  
 Reg. Dealer Net Was \$199.95

MFG. LIST \$219.95  
 Dealer Net Was \$174.50  
**\$139<sup>50</sup>**  
 ORDER YOURS NOW

EXCEPTIONAL DESIGN WITH ALL THE WANTED PROFESSIONAL FEATURES



STEREO MODEL  
 LIST \$309.95  
**\$169<sup>50</sup>**

STEREO MODEL  
 LIST \$249.95  
**\$159<sup>50</sup>**

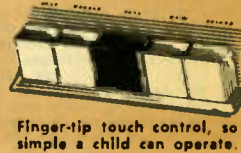
LOOK AT THESE PROFESSIONAL FEATURES

<p>10-Watt Push-Pull Amplifier</p>	<p>Illuminated VU Recording Meter</p>	<p>Four Hi-Fi Speakers With 2 LC Crossovers</p>
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SIMPLE, FOOLPROOF AND TROUBLE-FREE... A REAL PLEASURE TO OPERATE



SIMPLE PUSH-BUTTON OPERATION



## PENTRON "ARISTOCRAT" MODEL NL-3

Compare the quality... compare the features... compare the price! You just can't make a better buy anywhere. Widely recognized as the finest tape recorder in its class with deluxe features as only expected with professional units costing a great deal more. For finest "hi-fi" quality recordings of music and voice you can make no better choice.

**"Finger-Flite" Single Rotary Control** provides convenient easy selection of play, record, fast forward and fast rewind. Safety interlock record button prevents accidental erasure. Built-in switch for automatic shut-off at end of reel. Separate volume and full range tone controls.

**Professional Illuminated VU Recording Meter** assures precise adjustment of volume level for perfect sound reproduction when recording.

**Four Full Hours of Recording and Playback** with single 7" reel of long play tape (2400') or two hours with standard tape (1200'). Two speed (3 3/4 and 7 1/2 ips) precision engineered dual track tape deck with heavy-duty 4-pole motor. Self-energized brake to prevent tape spillage. Automatic index counter to locate any portion of recorded tape.

**10 Watt Push-Pull Amplifier** delivers amazing undistorted power with high fidelity sound. Frequency response 40 to 15,000 cps at 7 1/2 ips; 40 to 12,500 cps at 3 3/4 ips. Signal to noise ratio: 50 db. Flutter under 0.4% at 7 1/2 ips. Input jacks (2) for mike or magnetic phono; radio, TV, crystal or ceramic phono. Output jacks (2) for direct connection to external hi-fi amplifier or for headphones monitoring; and for external speaker. Recorder can be used as PA system by plugging mike into radio input.

**Four Extended Range Speakers.** Two heavy-duty 6" PM woofers, one 6" midrange and one exponential tweeter. Double LC crossover networks (600 and 2000 cps) separate the high, middle and low frequencies. Handsomely styled carrying case in attractive two-tone brown and beige. Size 17 1/8" W, 17 3/4" D, 11" H. Power consumption: 110 watts full load. 105-120 V. 60 cy. AC. Complete with custom designed super-sensitive microphone and 7" take-up reel. Shpg. wt. 35 lbs. Mfg. list \$269.95.

No. 31B268. Model NL-3. Special Each... **\$139.50**

### DELUXE MODEL FOR PLAYING STEREO TAPES

ALSO RECORDS AND PLAYS MONAURAL TAPES, AS ABOVE

Identical in every respect, function and features, to the above except has stereo tape head for playing both two and four track stereophonic tapes (see page 23). Recorder acts as one audio channel, the second provided by simply connecting recorder to any radio, phono, TV or hi-fi having phono or tape input jacks. Mfg. list \$309.95. Dealer net was \$229.95.

No. 31A274. Model NL-3S. Special Each... **\$169.50**

## MATCHING UNIT FOR STEREO



Everything needed for a complete stereo playback system with the Aristocrat NL-3S. Sturdy matching carrying case with 10 watt push-pull amplifier and built-in speaker system. Consists of two speakers—6" woofer and 6" high frequency tweeter—with LC crossover network. Separate volume and tone controls. Inputs (2) for tape recorder, phono, radio, etc.

Size 9 3/4" x 17 x 14 1/2". Was \$69.95.  
 No. 31A270. Net Each... **\$39.95**

## PENTRON "TRIUMPH" HI-FI RECORDER

No need to shop around any longer, whatever your recording requirements! B-A has the perfect unit. Truly a welcome combination of all the wanted professional features, the fine quality and craftsmanship of the leading manufacturer, and B-A's lowest price ever!

Last word in compactness... while incorporating the features and performance of recorders many times its size. Feather-lite... weighs only 18 lbs. Even a child can carry it with ease. So simple to operate too!

**Just Press a Button** for easy instant selection of—Play, Record, Fast Wind, Fast Rewind and Stop. Accidental erasure prevented by automatic interlocking switch. "Sure lok" brakes eliminate tape breakage and spillage. Electron beam (Magic Eye) record level indicator for perfect recordings.

**Extra Long Recording and Playing Time** with dual track, dual speed (3 3/4 and 7 1/2 ips) tape deck. Provides up to four full hours of recording and play back. Automatic shut-off when tape runs out. Digital type index counter.

**Powerful High-Fidelity Amplifier** straight AC designed with power transformer for hum free performance and amazing undistorted power. Frequency response: 40-15,000 cps @ 7 1/2 ips ± 3 db; 40-12,500 cps @ 3 3/4 ips. Signal to noise ratio -52 db. Separate tone and volume controls. Input jacks (2) for mike or mag. phono; radio, TV, crystal or ceramic phono. Output jacks (2) for 8 ohm external speaker; external power amplifier (permits use as tape deck with hi-fi system). Works also as PA system.

**3 Speaker Hi-Fi Performance.** Amazing tone quality provided by twin cone 4" x 6", and 4" PM speakers. Has monitor switch.

**Outstanding Design** with rich two-tone gray leatherette complementing the rugged reinforced feather-light aluminum structure. Size only 6 1/2" H, 12 1/4" W, 12 7/8" L. With hi-impedance crystal mike, take-up reel, blank tape and instruction manual. Power consumption: 75 watts full load. 105/120 V. 60 cy. AC. Shpg. wt. 22 lbs. Mfg. list \$219.95.

No. 31A245. Model XP60. Special Each... **\$139.50**

### DELUXE MODEL PLAYS STEREO TAPES

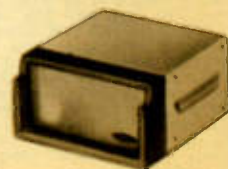
Records and plays monaural tapes, exactly as above. In addition plays both two and four track stereophonic tapes (see page 23). Recorder acts as one audio channel, the second channel provided by the companion amplifier-speaker unit shown here or by simply connecting recorder to any radio, phono, TV or hi-fi. Mfg. list \$249.95.

No. 31A247. Model XP60S. Special Each... **\$159.50**

## TRIUMPH COMPANION AMPLIFIER-SPEAKER UNIT

Identical in size and appearance to the "Triumph" tape recorder. Provides a complete stereo playback system. Sturdy, lightweight carrying case complete with wide-range audio amplifier, separate volume and tone controls, dual built-in speakers. Has 2 inputs for radio, phono, or microphone. Size 6 1/2" H, x 12 1/4" W, x 12 7/8" L. Shpg. wt. 5 lbs. List \$59.95.

No. 31A248. Model SS-61. Net Each... **\$37.50**





# EASTMAN KODACOLOR FILM

**COMPARE B-A's NEW LOW PRICES!**

**PRICES INCLUDE:**  
**FILM, DEVELOPING OF**  
**FILM AND GIANT POST-**  
**CARD SIZE (3 1/2 x 5)**  
**COLOR PRINTS**  
**\*SQUARE NEGATIVES ARE**  
**FINISHED JUMBO 3 1/2 x 3 1/2"**

- Factory Fresh - Original Unbroken Cartons.
- Top Quality Processing.
- Fast, Convenient "Direct Mail" Service.
- PLUS Exclusive 100% Picture Guarantee on Standard Rolls.

**EXCLUSIVE 100% ALL PICTURE GUARANTEE** . . . You're Guaranteed ALL pictures on a standard roll. If camera shoots 8 exposure film, you'll receive GIANT POSTCARD SIZE 3 1/2 x 5" prints. If camera shoots 12 exposures, you'll get JUMBO SIZE, 3 1/2 x 3 1/2" prints from every printable negative plus SPECIAL COUPONS good for free prints to make up the difference in case some don't turn out or a new FREE PROCESSING LABEL if the whole roll is blank.

**EASTMAN KODACOLOR FILM (Dual Purpose Film for Daylight or Flash)**

Stk. No.	Description	List Price	Net Each	3 Lts. Each	10 Lts. Each
60A247	*C120, 12 Exposure Roll	\$5.05	\$3.47	\$3.31	\$3.10
60A248	*C620, 12 Exposure Roll	5.05	3.47	3.31	3.10
60A315	C620, 8 Exposure Roll	4.37	2.91	2.77	2.60
60A249	*C127, 12 Exposure Roll	5.05	3.47	3.31	3.10
60A282	35MM - 20 Exp. & 2 1/4 x 3 1/2" Prints	6.15	4.33	4.12	3.86

## PREPAID PROCESSING LABELS FOR EASTMAN KODACOLOR

Each label good for developing and Giant Postcard Size Printing 3 1/2 x 5" (8 exposure roll) or 3 1/2 x 3 1/2" (12 exposure roll) of one roll. You get a FREE Coupon for every unprintable negative on a roll or a new Free processing Label if the whole roll is blank. All prints guaranteed on 35 MM Kodacolor too.

Stock No.	Description	List Price	Net Each	3 Lts. Each	10 Lts. Each
60A318	12 Exposure Kodacolor 620, 120 or 127	\$3.90	\$2.37	\$2.25	\$2.11
60A314	8 Exposure Kodacolor 620, 120 or 127	3.22	1.94	1.72	1.61
60A283	35 MM 20 Exposure & 2 1/4 x 3 1/2" Prints	4.30	2.58	2.45	2.30

# EASTMAN KODAK FILM

**WITHOUT PROCESSING**

**ALL FILM FACTORY FRESH! ORIGINAL UNBROKEN CARTONS!**

## 8MM KODACHROME MOVIE FILMS (Without Processing)

Stock No.	Eastman Type	Description	Each Roll	3 Lts. Each	10 Lts. Each
60A305	K459	8 MM 25' Roll Day Kodachrome	\$2.79	\$2.51	\$2.35
60A306	KA459	8 MM 25' Roll Indoor Kodachrome	2.79	2.51	2.35

## EASTMAN COLOR ROLL FILMS (Without Processing)

• KODACHROME • EKTACHROME • KODACOLOR

Stock No.	Description	List Price	Net Each	3 Lts. Each	10 Lts. Each
60A299	K135-20	35 MM Day Kodachrome, 20 Exp.	\$2.01	\$1.80	\$1.69
60A300	KF135-20	35 MM Flash Kodachrome, 20 Exp.	2.01	1.80	1.69
60A301	K135-36	35 MM Day Kodachrome, 36 Exp.	2.79	2.52	2.36
60A291	EH135-20	35 MM Day Hi-Speed Ekta, 20 Exp.	2.45	2.20	2.06
60A293	C620	620 Kodacolor for Day or Flash	1.13	1.05	1.01
60A294	C120	120 Kodacolor for Day or Flash	1.13	1.05	1.01
60A295	C127	127 Kodacolor for Day or Flash	1.13	1.05	1.01

## MOST POPULAR EASTMAN BLACK & WHITE ROLL FILMS

Stock No.	Description	List Price	Net Each	3 Lts. Each	10 Lts. Each
60A296	PX135-20	35 MM Plus X, 20 Exposures	.83	.69	.65
60A284	TX135-20	35 MM Tri X, 20 Exposures	.88	.72	.68
60A286	TX135-36	35 MM Tri X, 36 Exposures	1.13	.92	.86
60A285	FX135-20	35 MM Panatomic X, 20 Exp.	.88	.72	.68
60A288	VP620	620 Verichrome Pan	.54	.44	.41
60A289	VP120	120 Verichrome Pan	.54	.44	.41
60A290	VP127	127 Verichrome Pan	.54	.44	.41
60A276	TX120	120 Tri X	.64	.52	.49
60A277	TX127	127 Tri X	.64	.52	.49
60A278	FX620	620 Panatomic X	.64	.52	.49
60A279	FX120	120 Panatomic X	.64	.52	.49

# NEW KODACHROME II

Kodachrome is now available in a new and improved emulsion. Supplementing rather than replacing regular ASA 10 Daylight/16 Tungsten Kodachrome is this new ASA 25 Daylight/40 Tungsten Kodachrome II offering increased shadow detail and vastly improved color rendition of yellows, reds and greens, this new film amazingly is of even finer grain and higher resolution than regular Kodachrome. Of special interest to 8 MM movie makers—whose Kodachrome II films will now screen with near 16 MM (regular Kodachrome) quality—this newest of color films will also be welcomed by 35 MM fans because of its increased speed and superb quality.

## KODACHROME II ASA 25 DAYLIGHT/ASA 40 TUNGSTEN (Includes Processing)

Stk. No.	Description	List Price	Net Each	3 Lts. Each	10 Lts. Each
60A326	8 MM 25' Roll Daylight	\$5.10	\$4.33	\$4.12	\$3.86
60A327	8 MM 25' Roll Indoor	5.10	4.33	4.12	3.86
60A328	8 MM Magazine Daylight	6.00	5.39	5.13	4.81
60A329	8 MM Magazine Indoor	6.00	5.39	5.13	4.81
60A330	35 MM 20 Exp. Daylight	4.10	3.42	3.25	3.05
60A331	35 MM 36 Exp. Daylight	6.30	5.17	4.92	4.61

# EASTMAN KODACHROME FILM

**FACTORY FRESH!**  
**ORIGINAL UNBROKEN CARTONS**

**LIST PRICE \$4.70**  
**\$3.67**  
**8MM**  
 3 Lots, Each \$3.49  
 10 Lots, Each \$3.28



**LIST PRICE \$3.90**  
**\$2.93**  
**35 MM**  
**20 Exp.**  
 3 Lots, Each \$2.79  
 10 Lots, Each \$2.61

ALL SLIDES returned mounted—ready for projector or viewer.

**8 CONVENIENTLY LOCATED PROCESSING LABS**

- Dallas
- Houston
- Washington, D. C.
- Miami
- New York
- Cleveland
- Rochester, N. Y.
- Los Angeles



**PRICES INCLUDE PROCESSING**  
**FINER, FASTER SERVICE GUARANTEED!**

It takes more than price to be competitive—B-A not only offers substantial savings on Factory Fresh Kodachrome films but now for the first time you can have the assurance of the world's finest quality Kodachrome processing from one of the largest independent processors in the world, FOTOCHROME, INC.

Film for every purpose with top quality processing included in the one low price. Preserve the precious moments of growing children; capture the excitement of vacations and travels in full color for a lasting family record. After taking pictures simply mail the exposed film to the laboratory (PLEASE DO NOT MAIL FILM TO B-A COMPANY) . . . your priceless photos are on the way back to you in less time than it would take in any other way, completely processed at no additional charge. Handy self-addressed mailing bag and label are supplied with each roll of film. Guaranteed, finest top quality processing with the latest electronic equipment.

## EASTMAN KODACHROME COLOR MOVIE FILM

Stock No.	Description	List Price	Net Each	3 Lots Each	10 Lots Each
60A197	8 MM Daylight, 25' Roll	\$4.70	\$3.67	\$3.49	\$3.28
60A198	8 MM Indoor, 25' Roll	4.70	3.67	3.49	3.28
60A203	8 MM Daylight, 25' Mag.	5.65	4.49	4.28	4.01
60A196	8 MM Indoor, 25' Mag.	5.65	4.49	4.28	4.01
60A194	16 MM Daylight, 50' Mag.	8.85	7.46	7.10	6.66
60A195	16 MM Indoor, 50' Mag.	8.85	7.46	7.10	6.66
60A192	16 MM Daylight, 100' Roll	13.10	10.78	10.26	9.63
60A193	16MM Indoor, 100' Roll	13.10	10.78	10.26	9.63

## EASTMAN KODACHROME 35 MM COLOR FILM

Stock No.	Description	List Price	Net Each	3 Lots Each	10 Lots Each
60A199	Daylight, 20 Exposures	\$3.90	\$2.93	\$2.79	\$2.61
60A200	Flash & Indoor, 20 Exposures	3.90	2.93	2.79	2.61
60A202	Daylight, 36 Exposures	5.90	4.35	4.15	3.89
60A201	Flash & Indoor, 36 Exposures	5.90	4.35	4.15	3.89

## EASTMAN EKTACHROME COLOR FILM (Regular & Hi-Speed)

Stock No.	Description	List Price	Net Each	3 Lots Each	10 Lots Each
60A210	35 MM Daylight, 20 Exp.	\$4.10	\$3.19	\$3.04	\$2.85
60A211	35 MM Flash & Indoor, 20 Exp.	4.10	3.19	3.04	2.85
60A224	*35 MM Hi-Speed Daylight, 20 Exp.	4.35	3.43	3.27	3.06
60A225	*35 MM Flash & Indoor Hi-Speed Type B, 20 Exposure	4.35	3.43	3.27	3.06
60A212	620 Size, Daylight	3.20	2.37	2.25	2.11
60A213	620 Size, Flash & Indoor	3.20	2.37	2.25	2.11
60A214	120 Size, Daylight	3.20	2.37	2.25	2.11
60A215	120 Size, Flash & Indoor	3.20	2.37	2.25	2.11
60A216	127 Size, Daylight	3.20	2.37	2.25	2.11
60A217	127 Size, Flash & Indoor	3.20	2.37	2.25	2.11

\*Brand New Hi-Speed Ektachrome. Daylight (ASA 160), Type B (ASA 125)

# COMPARE B-A's NEW LOW PRICES!

## B-A OFFERS HUGE SAVINGS ON KODACHROME PROCESSING

FOR REGULAR KODACHROME, KODACHROME II, EKTACHROME & ANSCOCHROME  
 All film listed above includes processing; however if Kodachrome or Ektachrome has been purchased less processing from B-A or any place else—you may buy the prepaid process mailers listed below and save \$\$\$.

## PREPAID PROCESSING LABELS FOR KODACHROME FILM

Each Label represents prepaid processing for one roll.

Stock No.	Description	Processing List Per Roll	Net Each	3 Lots Each	10 Lots Each
60A205	8 MM, 25' Roll Labels	\$1.85	\$1.05	\$0.98	\$0.93
60A206	8 MM Magazine Labels	1.50	.60	.53	.45
60A207	16 MM, 100' Roll Labels	4.50	2.52	2.40	2.25
60A208	16 MM Magazine Labels	1.85	.46	.40	.35
60A209	35 MM—20 Exp. Labels	1.85	1.05	.98	.93
60A204	35 MM—36 Exp. Labels	3.05	1.71	1.63	1.53

## PREPAID PROCESSING MAILERS FOR EKTACHROME OR ANSCOCHROME

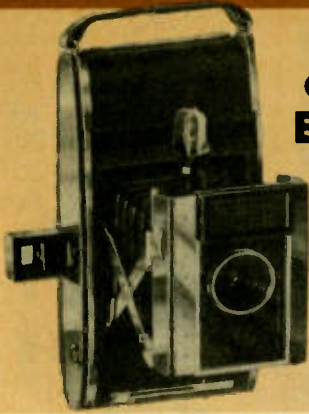
Each Mailer represents prepaid processing for one roll

60A209	*35 MM—20 Exp. Labels	\$1.85	\$1.05	\$0.98	\$0.93
60A319	620, 120 or 127 Roll Labels	1.85	1.05	.98	.93

\*For Processing either Regular or Hi-Speed Ektachrome



# POLAROID LAND CAMERAS AND FILM



## NEW POLAROID J66 COMPLETELY AUTOMATIC ELECTRIC EYE CAMERA

# \$79.94

**NO MONEY DOWN ON EASY TERMS**

**JUMBO 3 1/4 x 4 1/4" PICTURES  
IN 10 SECONDS!**

If you can aim this Camera you've got it made! This new J66 is the simplest Land Camera ever designed—yet it takes the same large pictures 3 1/4 x 4 1/4" as the most expensive Polaroid ever made—the J66 is fully automatic, no settings to make—simply aim and shoot and get perfect pictures every time—in only 10 seconds. Has built-in AG-1 Flashgun. Shpg. wt. 8 lbs. No. 37C71. Mfg. List \$93.50. J66 Camera Only. Net Each..... **\$79.94**

**THE J66 COMPLETE OUTFIT**—Includes Camera, Fitted top-grain cowhide case, 2 type 47 picture rolls, 12 AG-1 bulbs. Shpg. wt. 10 lbs. No. 37C91. J66 Outfit. Mfg. List \$110.45. Net Each..... **\$95.59**

## MANSFIELD HOLIDAY M-1000 8MM MOVIE PROJECTOR

**\*RATED  
"BEST BUY"  
By B-A's own  
Photo Dept.**

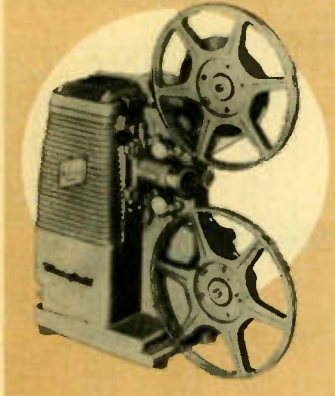
MFG. LIST \$49.95  
**\$35.95**

- 500 Watt Projection Lamp.
- 400 Ft. Real Capacity.
- Coated 3 1/4" f1.6 Lens for wide Angle Viewing.
- Swing out gate for easy loading and cleaning.
- All aluminum die cast construction.
- High intensity blower for uniform cooling.
- Marx film system.
- Lifetime lubrication with oilite bearings in all moving parts.

Memorable events of a lifetime projected in vivid realism by this superb new 8mm style, quality and price leader. Its powerful illumination and precise optical system results in crisp, brilliantly detailed movie screenings that everyone will enjoy. At last a quality projector at a down to earth price! Wt. 8 lbs. List \$49.95.

\*B-A Guarantees the "Holiday M-1000" to be absolutely the best 8mm Projector listing under \$70.00 available. Mansfield Nationally Advertised Price of \$49.95 in itself represents an amazingly good value, however... at an additional 25% Savings this Projector must be Top Rated as a "Best Buy." Backed by Mansfield's lifetime guarantee on all parts. No. 37A436. Net..... **\$35.95**

Carrying Case. Wt. 3 lbs. No. 37A437. List \$7.95. Net..... **\$5.96**



## 8MM ACTION EDITOR AND SPLICER



### BAIA CHALLENGER

**FEATURED SLIP-IN LOADING  
PROTECTS AGAINST FILM  
SCRATCH!**

MFG. LIST \$34.95  
**\$23.30**

One of the finest quality, most efficient, easy to use editors made. Film slips in without any threading whatsoever. Turn one knob and film is locked permanently in focus and frame. Film travel is very smooth without skipping, flickering or wear. Bala design puts emulsion side up for easiest splicing. Folding reels have 800 ft. capacity. All metal construction. Take-up rewind is geared for rapid rewind of film. Comes complete with new desirable dry splicer. Has on-off switch. Operates on 110 volts AC-DC. Wt. 8 lbs. Mfg. list \$34.95. No. 11A763. Complete in Carry-Carton. Net Each..... **\$23.30**



**\$3.99**  
Batteries Incl.  
For  
35 MM  
127 Square  
And  
Supor Slides

### BATTERY-OPERATED SLIDE VIEWER

B-A GUARANTEES this viewer to be equal in quality and optical performance to viewers selling from \$6.95 to \$9.95. Simply insert slide in top—built-in switch turns light on when slide is pushed down—viewer rests either flat or up at a 45° angle for group viewing. Uses standard C type flashlight batteries No. 11A465. Complete with Batteries. Net..... **\$3.99**

199A



MFG. LIST \$2.29  
**\$1.81**  
EACH  
6 LOTS  
TYPE 47

## POLAROID LAND PICTURE ROLLS

**FOR FINISHED PICTURES  
IN 10 SECONDS...  
AT LOWEST COST**

Stock No.	Type ASA Speed	Recommended For	Mfg. List	Net Each	3 @ Each	6 @ Each
60B173	47-3000	J66 & All except 80, 80A, & 80B	\$2.29	\$2.01	\$1.89	\$1.81
60B172	42-200	All Models exc. J66, 80, 80A, 80B	2.14	1.88	1.76	1.69
60B171	37-3000	Models 80, 80A and 80B	1.79	1.57	1.48	1.42
60B170	32-400	Models 80, 80A and 80B	1.64	1.44	1.35	1.30

## POLAROID LAND CAMERA KITS

**THE 900 COMPLETE OUTFIT**—Camera, Fitted Case, Winklight, 2 #47 Rolls. Shpg. wt. 12 lbs. No. 37C92. Complete Outfit. Mfg. List \$199.95. Net Each..... **\$162.95**

**THE 850 COMPLETE OUTFIT**—Camera, Fitted Case, Winklight, 2 #47 Rolls. Shpg. wt. 12 lbs. No. 37C93. Complete Outfit. Mfg. List \$179.95. Net Each..... **\$148.88**

**NEWEST J33 OUTFIT**—Makes 2 1/4 x 3 1/4" pictures in 10 seconds. You get: Camera, Case, 1 Roll 37 film and 6 AG-1 Flashbulbs. Shpg. wt. 7 lbs. No. 37C72. J33 Outfit. Mfg. List \$87.90. Net Each..... **\$76.97**

## OUR FINEST EXPOSURE METER

### NEW GOSSEN "PILOT"

**THIS EXTREMELY ACCURATE METER  
WILL MORE THAN PAY FOR ITSELF  
IN FILM NO LONGER WASTED!**

**MEASURES DIRECT**  
• INCIDENT • MOVIES  
• POLAROID • EVS

Supersensitive, from Gossen works of Western Germany, renowned manufacturer of the world's finest meters.

Includes Moulded Ever-ready Case and Carrying Strap

**\$13.56**  
MFG. LIST \$17.90



ASA RANGE 6-6400

Has instant flip-thumb-lever that slides a built-in screen over photocell immediately adapting to incident use.

B-A Guarantees this Meter to be as fine in quality of workmanship and equal to the light sensitivity of any photoelectric type basic meter selling under \$50.00. Shpg. wt. 8 oz.

No. 37A306. Meter, Case & Strap. Net..... **\$13.56**

No. 11A781. Adaptor, "Pilot" to accessory shoe of camera. Each..... **49c**

### KALIMAR A-1 PHOTOELECTRIC EXPOSURE METER COMPLETE WITH PLUG-IN 64X BOOSTER

MFG. LIST \$11.95  
**\$8.97**

Has ASA 3 to 3200 sensitivity scale—Time scale 60 seconds to 1/1000th—Lens reading F:1 to F:32—Polaroid and LVS—Movies 8 to 64 frames per second—measures reflected or incident light. Complete with genuine Leather Eveready Case and 16" chrome carrying chain, "Kalimar 64X" sensitivity Booster with leather case, instruction booklet, registration and guarantee.

Meter & Case Plus Booster & Case. \$8.97  
No. 11B428. Net.....



### QUICKSET/WHITEHALL ELEVATOR TRIPOD

Made by Quickset, foremost manufacturer of quality professional tripods.

Rock-solid camera support eliminating hard to look at bumpy effect in home movies—no more blurred "stills" caused by camera movement. Loaded with professional features all combining for better reproduction of most cherished occasions. Including: All precision machined gearing, smooth running; no slip or jam leg locks—loosen or tighten with only a quarter turn; elevator column carried in precision bearings—locks rigid at any height. Made of high strength aircraft aluminum with lifetime finish—all parts protected against wear and corrosion. Lightweight, just 2 1/4 lbs. A must for sharpest pictures! No. 36B147. Special Net Each..... **\$12.88**



Nationally Advertised at \$21.95 List  
**\$12.88**

Extended Height 60-in. Closes to 21 1/4-in.

**QUICKSET/WHITEHALL "DREXEL" ELEVATOR TRIPOD**  
For those desiring a little heavier duty tripod than average needs require, this model is excellent. Smooth pan head swings freely and locks instantly. Other specs: height extended 67 1/2"—telescoped 24 3/4"—crank operated elevator column 1/8" dia., 13" rise—Deluxe finish black anodize with chrome accent. 3 section legs 1/8", 3/4", 5/8" dia. Wt. 3 1/2 lbs. No. 36C164. Mfg. list \$24.95. Net Each..... **\$17.88**



# EXCLUSIVE MANSFIELD 8 MM ZOOM REFLEX MOVIE CAMERA



YOU LOOK THRU THE LENS

NO MONEY DOWN  
MFG. LIST \$99.95  
**\$72.88**

**ZOOMS TO THRILLING CLOSE-UPS**

- Built-in Automatic Electric Eye Meter—indicates correct lens setting.
- Focusing eyepiece.
- Fast F/1.8 Zoom Focusing Lens—color corrected and hard coated.
- Whisper-quiet motor.
- No Parallax worries—you get just what you see.
- Trigger-action pistol grip included.

For sheer movie-making excitement this new Mansfield 8 MM Zoom Camera can't be equalled! Through-the-lens viewing shows the actual scene as you ZOOM in from wide angle to telephoto shots! You get exactly what you see... no chopped-off heads or feet as with other non-reflex cameras. Fast drop-in spool loading. Focusing eyepiece adjusts to any eyesight condition. Ultra smart styling and built-in ruggedness. This very fine camera lists for less than 2/3rds the price of most 8 MM Zoom Cameras—and it provides pictures every bit as good—no reason to pay more. B-A's net price is \$72.88 (\$27.07 less than mfg. list). A Wonderful Value—Backed by B-A's Guarantee: Satisfaction or your money back. Shpg. wt. 4 lbs.  
No. 37A7. Net Each..... **\$72.88**

# MANSFIELD ULTRA ZOOM HOLIDAY 8 MM MOVIE PROJECTOR



**\$58.36**

MFG. LIST \$79.95

**AT HALF THE PRICE YOU'D EXPECT TO PAY FOR A ZOOM PROJECTOR WITH ALL THESE FEATURES!**

- Advanced Ultra-Zoom F 1.5 Lens.
- 500 Watt Edge-to-edge Illumination.
- Forward, still or reverse action at will.
- 3-way switch for lamp and motor.

This year's outstanding 8 MM projector. Provides new, at-ease viewing pleasure—instant film action "Zooming" fills the screen in any average size room—or gives a giant close-up of any part of the picture without moving the projector. Film gate swings out for speedy loading. Exclusive, quiet, turbo-blower cooling. PLUS long life DFA lamp. Complete with self-enclosed case. Shpg. wt. 14 lbs.  
No. 37A6. Model 307..... **\$58.36**  
As above but with Automatic film threading feature.  
No. 37A451. Net..... **\$71.96**



## ACME-LITE PROJEK-TABLE

**PORTABLE ELECTRIFIED STAND FOR SLIDE & MOVIE PROJECTOR PLUS 101 USES FOR HOME, SCHOOL OR OFFICE**

Ideal for bedside table for lamp, vaporizer, coffee and snack table, radio or portable TV, tape recorders, movie editors, record players, electric typewriter, electric appliances, etc.

Discover how enjoyable picture projection can be with all these conveniences at your finger tips: switch controlled viewer window for previewing slides; service-lite for working in dark, three surface outlets for connecting projector room lamp, tape recorder, etc. Projek-Table opens on self-leveling tripod legs to 30" height and closes in a jiffy storing in only 9" of floor space. All steel construction with 15 x 17" scuff-proof vinyl plastic covered top. Beautifully finished beige matches the finest decor. Shpg. wt. 15 lbs. (Via express).  
No. 40A374. Mfg. list \$21.95 **\$13.95**

## COMPLETELY NEW AND IMPROVED ILLUMINATION FOR INDOOR MOVIES

**ACME-LITE Q-BEAM VACUUM-SEALED QUARTZ MOV-E-LITE**

Want indoor movies bright as all outdoors—everytime? The new Q-Beam is your answer. Here's why: Q-Beam is so compact, so lightweight it's only a handful. So powerful it outshines multiple light bars and inefficient sealed tungsten lamps. Its brilliant, vacuum-sealed GE uniflood lamp literally bathes your subject in packaged sunlight. You get smoother, softer pictorial effects; eliminate double shadows, glare and underexposure.

For bounce-light effects just touch a special cool Finger Grip to fix the lamp position. When not in use the unique Q-Beam hinged camera mount folds alongside the handle. Its amazing replaceable DXK lamp has a life of 16 hours, four times that of conventional lamps, and brilliance and color remain constant without blackening. 40° beam spread. Fits any camera. Operates on regular 110 V. AC current and no special fuses are needed. Has 12' power cord. Made of cool-to-the-touch heavy duty styrene. Shpg. wt. 3 lbs. UL approved.  
No. 32B245. Mfg. list \$22.95. Net **\$15.95**  
**DELUXE TAILORED SHOULDER CASE.** Scuff-proof durable styrene molded to exact shape of Q-Beam. Wt. 1 lb.  
No. 32B246. Mfg. list \$6.95. Net **\$5.21**

# COMPARE B-A's LOWER PRICES SYLVANIA BLUE DOT FLASHBULBS



FOR BLACK AND WHITE AND ALL COLOR FILM

BUY IN STANDARD FACTORY CASES SAVE MORE \$\$\$!

**SYLVANIA CLEAR FLASHBULBS.** Recommended for all Black and White Films and every popular type INDOOR Color Film plus Kodacolor. Bulb shapes and bases are illustrated above. M5B same as M5, etc. "Bantam 8" (not illus.) has same base as "Press 25" but is only 1/2" in diameter. Some as column below shows comparable bulbs of other manufacturers. Try the new unbelievable Miniature M5 and M25 "Zirconium" filled flashbulbs. Equivalent in Power to Bulbs 4X LARGER. They measure only 1/3" diameter. \*Each carton contains 12 flashbulbs.

Stock No	Bulb Type	Class	Lumen Seconds	Color Temp. K	Same As	Ctn. List	Per Ctn.	3 Ctns. @ Ea.	Case of 144 For
60A54	AG-1	—	7,000	3800° K	AG-1	\$1.32	\$1.02	\$0.91	\$ 9.79
11B508	M-5	M	16,000	3800° K	M-5	1.80	1.40	1.24	13.34
11B506	M-25	—	16,000	3800° K	M-25	1.80	1.40	1.24	13.34
11A513	M-2	—	7,200	3800° K	M-2	1.56	1.20	1.07	11.57
11A523	Bant. 8	M	7,000	3800° K	8	1.50	1.16	1.03	11.12
11A514	SF	F	5,000	3400° K	SM	2.16	1.67	1.48	16.02
11A515	Press 25	M	20,000	3800° K	5	1.80	1.40	1.24	13.34
11A512	FP-26	FP	19,000	3800° K	6	2.16	1.67	1.48	16.02

**SYLVANIA BLUE FLASHBULBS. For DAYLIGHT TYPE COLOR FILMS**

Stock No.	Bulb Type	Class	Lumen Seconds	Color Temp. K	Same As	Ctn. List	Per Ctn.	3 Ctns. @ Ea.	Case of 144 For
60A55	AG-1B	—	4,000	6000° K	AG-1B	\$1.56	\$1.20	\$1.07	\$11.57
11B509	M-5B	M	8,500	6000° K	M-5B	2.16	1.67	1.48	16.02
11B507	M-25B	—	8,500	6000° K	M-25B	2.16	1.67	1.48	16.02
11B511	M-2B	—	6,000	5100° K	M-2B	1.80	1.40	1.24	13.34
11A519	25B	M	9,000	6000° K	5B	2.16	1.67	1.48	16.02
11A521	FP26B	FP	8,500	6000° K	6B	2.52	1.95	1.73	18.68

## SYLVANIA REFLECTOR SUPERFLOODS

For both Movies and Stills. Perfect for all Black and White and Popular Indoor Color Films. Screw base for standard 115 V. AC sockets. All lamps have a color temp of 3400° except R32 (3200°K) which provides softer skin tones.

Stock No.	Type	Watts	Angle	Life	Size In.	List Each	2 For	6 For	12 For
11B410	DAN	200	25°	4 hours	2 3/8 x 3 3/4	\$1.25	\$1.96	\$5.22	\$9.27
11B522	EBR	375	25°	4 hours	3 3/4 x 5 1/4	1.15	1.78	4.74	8.50
11A622	BEP	300	30°	4 hours	3 3/4 x 5 1/4	.93	1.44	3.84	6.91
11A537	R34	375	25°	4 hours	4 1/4 x 6 1/4	1.25	1.96	5.22	9.71
11A530	R32	375	25°	15 hours	4 x 6 1/2	2.20	3.40	9.06	16.32

## NEW CERAMIC "BLUE TOP"

### SYLVANIA PROJECTION LAMPS

Exact replacement for all slide and movie projectors. All prices include Federal Tax. Wattage equals number prefix in 3rd column. For example, 1st line CEM is 100 watts, etc.

Stock No.	ASA CODE	Type Number	List Each	Net Each	3 Lots Each	6 Lots Each
11A477	CEM	100T8/10BSC	\$1.90	\$1.47	\$1.37	\$1.30
11A478	CEL	100T8/10BDC	2.00	1.55	1.44	1.37
11A553	DFA	150T12TFR	5.25	4.06	3.79	3.60
11A528	CEW	150T8/71	2.30	1.78	1.66	1.58
11B411	BEH	150T10TF	2.65	2.05	1.91	1.82
11B412	CAR	150T10TF1	2.90	2.24	2.09	1.99
11B414	DCA	150T12TFR/LV	5.25	4.06	3.79	3.60
11A482	CGW	200T8/113	2.40	1.85	1.73	1.65
11A484	CMV	300T8 1/2/25C	4.00	3.09	2.88	2.75
11A524	CLS	300T8 1/2/11	3.30	2.55	2.38	2.27
11A485	CLX	300T8 1/2/12	3.40	2.63	2.45	2.33
11A486	CYC	300T10SC	3.40	2.63	2.45	2.33
11A526	CXK	300T10P	4.60	3.55	3.32	3.16
11A773	CWD	300T10TF1	3.75	2.90	2.70	2.57
11A487	DGA	300T12TF	4.05	3.13	2.92	2.78
11B415	CRA	300T10TF3	4.30	3.32	3.10	2.95
11B416	CAL	300T10TF4	4.00	3.09	2.88	2.75
11A488	EDK	500T10/25C	4.40	3.40	3.17	3.02
11A492	DAK	500T10F	4.70	3.63	3.39	3.23
11A527	CZX	500T10P	4.95	3.82	3.57	3.40
11A774	CZB	500T10TF2	4.95	3.82	3.57	3.40
11A775	CZA	500T10TF1	4.95	3.82	3.57	3.40
11A525	DDB	750T12P	5.35	4.13	3.86	3.67
11A539	DEJ	750T12/3LR	5.95	4.60	4.29	4.08
11A475	DGH	750T12	8.60	6.64	6.20	5.90
11A490	DFD	1M/T12P	5.75	4.44	4.15	3.95
11B510	DFK	1M/T12/3LR	6.55	5.06	4.72	4.50
11B417	DFY	1M/T12/5LR	7.05	5.45	5.08	4.84

## MICO SLIDE TRAYS

1000's SOLD NATIONALLY FOR \$1.00 EACH

Universal Design—fits Viewlex, TDC, Bell & Howell Robomatic, American Optical and Keystone Projectors. For all 2x2 slides (35 mm and super). Holds 30 slides in all types of mounts. Each is indexed with engraved numbers. **NON-JAMMING** and **NON-WARPING**—special block unbreakable plastic prevents warping regardless of time, temperature and use. Guaranteed for life. Wt. 8 oz. Net..... **59c** Each..... **39c** Each In 12 Lots.

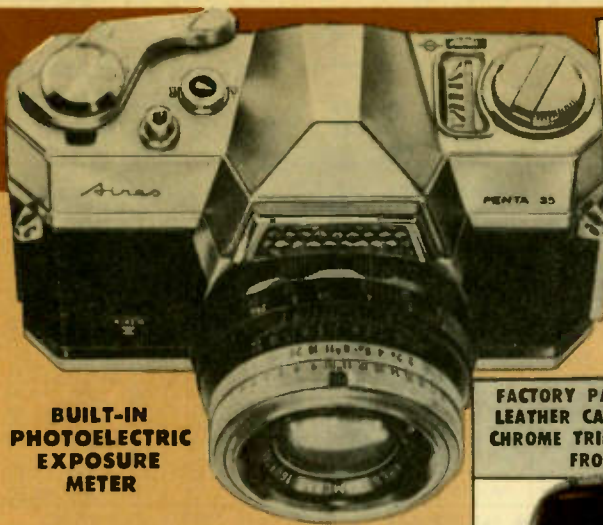
## EXTRA AIRQUIPT MAGAZINES

For any projector equipped with an "Airquipt Changer" List price \$2.25.  
11A748. 6 @ \$1.83 24 @ \$1.71 48 @ \$1.54  
Net Ea. .... \$1.83 Ea. .... \$1.71 Ea. .... \$1.54





**HERE IT IS! OUR VERY BEST CAMERA....OUR VERY BEST BUY!**



MFG. LIST \$123.95  
**\$89<sup>88</sup>**  
 NO MONEY DOWN

**NEW AIRES PENTA  
 F:2 LM  
 35 MM CAMERA**

**PENTA-PRISM 35 MM LENS REFLEX**

- Accepts standard 20 or 36 exposure 35MM black and white or color film.
- SOMM F:2 H-Coral six element lens, amber coated and color corrected.
- Seikoshi SLV shutter, 11 click-set shutter-speeds, 1, 1/2, 1/4, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500 and "B." If desired, shutter speed and lens aperture can be set independently of meter.
- Fully synchronized M-X-V shutter. M for popular flashbulbs, X for electronic flash and V for built-in delayed action timer.
- Split-Image Rangefinder In Through-The-Lens Focusing Penta-Prism Viewfinder. You get what you see with no parallax problems.
- Automatic diaphragm allows full-aperture viewing and focusing. It stops down to the desired pre-set opening automatically and returns to full opening when film is advanced for the next exposure.

**YOU MUST BE  
 SATISFIED  
 OR YOUR  
 MONEY  
 BACK!**

**FACTORY PACKAGED EVEREADY  
 LEATHER CARRYING CASE WITH  
 CHROME TRIM AND DETACHABLE  
 FRONT STRAP**



**BUILT-IN  
 PHOTOELECTRIC  
 EXPOSURE  
 METER**

**PROVIDES FINEST QUALITY  
 PICTURES...OUTSIDE AND  
 INSIDE—EVEN WITHOUT  
 FLASH BULBS!**

Every conceivable professional feature—yet so simple to use: Photographer merely aims camera at subject, looks on top of camera at number indicated by meter, then sets ring on front of camera to the same number—your lens and shutter are automatically set at the proper combination for perfect picture taking. Sensitive meter is centered in Penta-Prism housing above lens for truest possible light reading. This new "Aires Penta F:2 LM" has additional features too numerous to mention in this limited space—but if you want the very best pictures obtainable—don't think for a minute that a more expensive camera will do a better job—because it wouldn't. There is no reason to pay more—order now and see for yourself. B-A Guarantees complete satisfaction or your money cheerfully refunded. B-A's net price saves you \$34.07 from the manufacturer's Nationally Advertised List. Complete with case and auxiliary adaptor ring. Tele. and W.A. lenses available. Shpg. wt. 4 lbs. **\$89.88**  
 No. 37A3. Camera, Case and Adaptor Ring. Net.....

**NEW... SELF-OPERATING 35 MM SLIDE PROJECTOR  
 AT A DOWN-TO-EARTH PRICE!**

MFG. LIST \$79.95  
**\$57<sup>60</sup>**

**MANSFIELD HOLIDAY "500"  
 ROBOT  
 PROJECTOR**



**FOR  
 ALL  
 2 x 2  
 COLOR  
 SLIDES**

**MORE FEATURES FOR THE MONEY  
 THAN ANY OTHER PROJECTOR**

**REMOTE AUTOMATIC TIMING CONTROL**—Just set time for any interval from 5 to 60 seconds—then sit back and enjoy the show as the Holiday "500" advances, shows and replaces slides all by itself. Remote control allows you to alter timing, advance or hold slides on screen as long as desired—from as far as 12 feet away—choice of manual control if desired.  
**500-WATT PICTURE BRILLIANCE**—New 500-watt proximity reflector lamp provides up to 25% more picture brilliance than comparable projectors. Lens is F3.5, 4" focal length, 3 element, coated anastigmat. Precision rack and pinion focusing.  
**POWERFUL BLOWER COOLING SYSTEM**—Prevents overheating, preheats slide to prevent "popping" out of focus.  
**45-SLIDE PROJECTION TRAY**—No special inserts or mounts needed—just drop in cardboard-mounted slides and you're ready to go. Holds 45 slides.  
 Mansfield Model 416 Holiday "500." Operates on 105 to 120 volts AC with 10 ft. power cord. Complete with remote timer and one "45" tray. All metal construction beautifully finished in black with chrome and gold trim. **\$57.60**  
 No. 37B85. Complete shpg. wt. 15 lbs. Net.....  
 No. 37B86. Carry Case for "500." Each.....\$7.95  
 No. 37C90. Projector & Case. Special Each.....\$62.93  
 No. 11B744. Extra "45" Trays 12 Lots  
 List \$1.45. Net Each.....\$1.25 Each.....\$1.10

**RADIANT PROJECTION SCREEN**

**\$8<sup>97</sup>** MFG. LIST \$14.95

**FUNGUS RESISTANT  
 40x40" SIZE—INSTANTLY  
 CONVERTS TO OBLONG FOR  
 SLIDE OR MOVIES**

High quality, brilliant glass-beaded screen that assures sharpest photographic detail. Built-in carrying handle. Weight 9 lbs. List \$14.95. No. 40C104. Size 40x40". Net Each. **\$8.97**

**ALL NEW KALIMAR TRANSISTORIZED  
 AC OR BATTERY-OPERATED PM540**



**ELECTRONIC FLASH  
 OPERATES ON 4 ORDINARY D-SIZE FLASH-  
 LIGHT CELLS OR REGULAR AC CURRENT**

MFG. LIST PRICE \$39.95

**\$29<sup>95</sup>**

**ONLY \$19.95** When Ordered With Aires Camera Above

**PERFECT FOR FILLING IN SHADOWS OUTDOORS....  
 OR AS AN ONLY LIGHT SOURCE INDOORS**

Look at these specs: Output = 54 watt seconds—color temperature = 6000° K (Balanced for daylight color films)—recycling time 8-10 seconds - 150 flashes per battery set - 1/600th second flash duration. PM540 transistorized electronic flash can be used with any camera synchronized for electronic flash (your shutter must be marked "X"). Operates on ordinary 110 AC household current or just 4 D-size flash batteries. Exposure calculator quickly shows correct lens openings at various distances. Open-flash button for testing and for bleeding unit. Multi-flash pictures may be taken by connecting two or more units together using all battery or all AC or their combination. Ready lamp light when unit is charged and ready for next flash. Packaged with Battery Case—Plus All These Accessories at No Extra Cost: Power cord, Synchro cord, AC Line Cord, Camera Bracket, Camera Accessory Clip and Battery Case Shoulder Strap. Mfg. List \$39.95 **\$29.95**  
 No. 37A19. Kalimar PM540 Complete as described. Each.....  
 When Ordered in Combination with Aires F:2LM, B-A Stk. No. 37A3 listed at top of page Your Cost for Electronic Flash Only.....\$19.95  
 No. 21B79. Burgess Battery (PM540 above requires 4) Net Each.....14

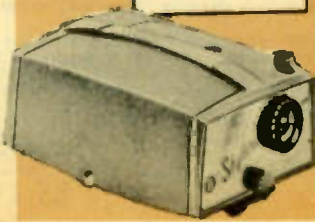
MFG. LIST \$44.95

**\$24<sup>95</sup>**

**MANSFIELD AUTOMATIC  
 35MM SLIDE PROJECTOR**

Hurry, hurry for the best buy ever on a popular 35 MM Projector. B-A sold several hundred at \$29.95. Now only a limited quantity remains for a lucky few at this reduced clearance price. Features true focus 300 watt bulb—turbo blower cooled, 4" F3.5 color corrected coated lens, Eastman Kodak presto-matic changer for showing up to 36 2x2" color slides automatically, storage compartment for over 100 slides. Includes Mansfield Lifetime Guarantee on all parts.

UL approved. Shpg. wt. 11 lbs. Mfg. List \$44.95. No. 37A51. While They Last... **\$24.95**





**IF YOU WANT A SUPERIOR CAMERA AT A BARGAIN PRICE—THIS IS IT!**

# MINOLTA \*AL 35MM CAMERA

MFG. LIST \$99.50

**\$66<sup>66</sup>**  
NO MONEY DOWN

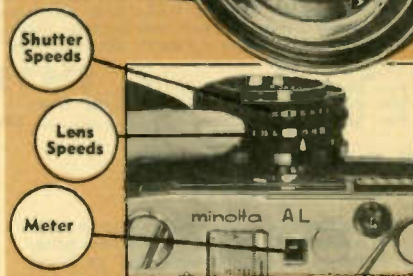
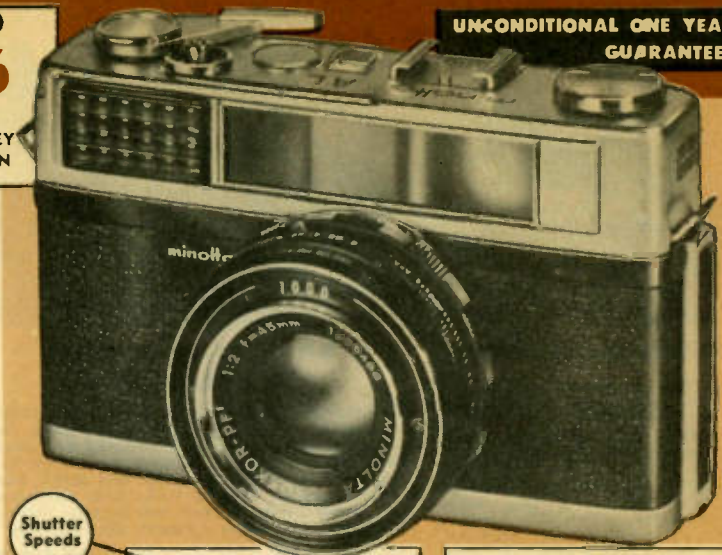
**UNCONDITIONAL ONE YEAR GUARANTEE**

\* AUTOMATIC PHOTOELECTRIC LIGHTMETER coupled to shutter with manual override.

## THESE GREAT NEW FEATURES GUARANTEE A LIFETIME OF PHOTOGRAPHIC SATISFACTION

- Accepts standard 20 or 36 exposure 35mm black & white or color film.
- Fast Rokkor 45mm F2 lens. Fully coated and corrected; detent action F/ stops to F22. This lens is world famous for needle-sharp performance.
- Newest "Optiper Citizen MLT-1000" shutter boasting MXV sync. (M for regular flashbulbs, X for electronic flash and V for delayed action.) Speeds: 1/1000, 1/500, 1/250, 1/125, 1/60, 1/30, 1/15, 1/8, 1/4, 1/2, 1 sec. and B (all these speeds having detent action).
- EV5 or LV5 Settings 2 to 19. With lens openings and shutter speeds cross-coupled with manual override if desired.
- Parallax compensated Viewfinder-Rangefinder in single bright-lined window totally cross-coupled to lens. Viewfinder automatically zero's in on subject whether 3 feet or at infinity—wherever rangefinder is focused.
- Exposure Meter. Built-in and cross-coupled to shutter. ASA selector 10 to 800, a wide-range enough for any picture needs.
- Ratchet Winding Lever. Advances film and cocks shutter simultaneously in one single stroke.
- Rewind Crank flush to camera top—unfolding for rapid or slow rewind.
- Film Counter—Resets to starting point when back is opened.
- Accepts standard cable release, standard shoe accessories, standard tripods and popular PC flash contact.

This Camera is especially recommended for those wanting a fast-handling all around excellent 35mm camera—ideal for sports, available light, and general vacation color shots or for that matter any occasion demanding the finest optical performance and mechanical perfection. B-A is so extremely proud of this special offering that we are Guaranteeing this Camera unconditionally for one year—that's right unconditionally which means if for any reason you are dissatisfied with the performance or even the looks of this Minolta AL—money cheerfully refunded anytime within one year. Camera, complete with Deluxe Eveready Leather Carrying Case and instruction booklet. Mfg. List \$99.50. **\$66.66**  
No. 37C99. Shpg. wt. 4 lbs. Special.....



## EMPIRE FINE IMPORTED BINOCULARS



### MARVELOUS IN QUALITY AND PERFORMANCE

All Empire Binoculars are double-strength, all-weather construction. Precision ground, hard-coated lenses. Pockaged with Deluxe Plush-Lined Genuine Leather Carrying Case (with shoulder strap). \*Comes with special lightweight lined leather case. Prices include Federal Excise Tax.

#### ① MINIATURE PRISMATIC 7x18 BINOCULAR

All the power, brilliance, and field coverage of highest quality full size binoculars—yet just 1/5th their bulk and weight—measures 2 1/2" H. by 3 1/2" W. Shpg. wt. 1 lb. Mfg. List \$34.50. No. 60A185. **Center Focus. Net Each..... \$17.25**

#### ② 7x35 BINOCULARS

New, rugged glasses that bring you front-seat viewing for all sporting events. Lightweight, only 18 oz. Field of view 400 ft. at 1000 yds. Ht. 5 1/2". Shpg. wt. 5 lbs. No. 60A228. **Center Focus. List Price \$42.35. Net Ea.... \$22.44**

#### ③ 7x50 BINOCULAR

These large glasses offer big value and best results. Unsurpassed for outdoor use especially at dawn or dusk. Field of view 385 ft. at 1000 yds. Ht. 7". Shpg. wt. 4 lbs. No. 60A231. **Center Focus. List Price \$51.45. Net Ea.... \$26.97**  
No. 60A229. **Individual Focus. List Price \$42.35. Net Ea. \$23.17**

#### ④ 7x35 WIDE-ANGLE B&L TYPE BINOCULARS

First choice of Binocular users, everywhere! Field of view is an amazing 522 ft. at 1000 yds.—yet these are only 5" high and weigh only 31 ozs. Center focus. wt. 5 lbs. No. 60A230. **List \$64.45. Ea.... \$31.69**

## JASON BRILLIANT 4-INCH REFLECTING TELESCOPE



DISCOVER FOR YOURSELF THE EXCITING MYSTERIES OF THE HEAVENS

MFG. LIST \$120.00

**\$64<sup>88</sup>**

NO MONEY DOWN

**OBSERVE WONDERS OF THE WORLD WITH THIS PRECISION REFLECTOR**

Jason 300x "Universal." This astronomical reflector is the same type as the one at Mt. Palomar and the country's largest observatories. Powerful, 6 ranges of power from 45x to 300x, 3 super coated lenses plus 2x Barlow lens and large 4" optically ground and polished mirror combine to give you the ultimate for clear, powerful, brilliant observation. Solar and lunar lenses included. 5 x 24 finder scope. Big floor tripod and accessory tray. Focal length 900 mm. Shpg. wt. 35 lbs. (Via Express) **\$64.88**  
No. 40B207. Mfg. List \$120.00. Special.....

## ALL NEW EMPIRE ZOOM BINOCULARS



7X 10X 12X  
**PRECISION 7X TO 12X ZOOM**

**\$37<sup>96</sup>**

MFG. LIST \$65.95



WITH GENUINE LEATHER CASE

This is the most versatile binocular ever designed. Zooms from 7X for general viewing to 12X for detailed close up. At the turn of your fingers: 7X, 8X, 9X, 10X, 11X and 12X. COMBINES the advantages of a 7, 8 or 9 power binocular for general viewing, fast action sports and sightseeing, with the advantages of a 10 to 12 power instrument for spotting targets, marine markings and buoys. Images are bright, sharp and clear at all power ranges, a result of EMPIRE'S quality controlled optical engineering and 35 MM premium coated objective lens system. Center focusing. Excellent field of view. Mt. 6". Shpg. wt. 3 lbs. Import from EMPIRE. Mfg. List (Includes F.E.T.) \$65.95. No. 60A19. **Net (Includes F.E.T.)..... \$37.96**

## JASON 50 x 50 IMAGE-ERECTING TELESCOPE

NO LOWER PRICE ANYWHERE

**THIS IS A HONEY OF AN INSTRUMENT!**

FULL 50X MAGNIFICATION  
FINEST QUALITY COATED  
PRECISION OPTICS

### USE IT FOR

- Moonwatching
- Terrestrial Objects
- Spotting Scope
- Tracking Satellites
- Bird Watching . . . Etc.



MFG. LIST \$37.95

**\$18<sup>94</sup>**

Scan the heavens and earth at will. Prismatic eyepiece provides easy, exact focusing . . . AND . . . you see objects RIGHT SIDE UP . . . extra large 50 MM lens allows additional light through optical system—making night time viewing a real pleasure. Complete with sturdy metal tripod. (Length 22"). No. 37A9. Mfg. List \$37.95. Shpg. wt. 4 lbs. Special..... **\$18.94 199D**



# MODERN DESIGN INTERCOMS AT LOWEST COST



## WIRELESS 2-STATION

Just plug each unit in 115 volt AC or DC outlet, turn on and presto . . . two-way intercommunication at lowest cost ever. Works anywhere—between rooms, apartments, offices, nearby homes, adjacent buildings—also perfect as baby listener or for sick rooms. Press-to-talk switch with constant listening position. UL approved. Size only 8 1/4 x 3 3/4 x 4 1/2" H. Shpg. wt. 8 lbs. No. 36B203. 2-Station System..... **\$39.95**



## BATTERY POWERED ALL TRANSISTOR

Four transistor battery-powered for portability! Move from room-to-room or out-of-doors. No electrical plug-in. Simply connected by 2-wire cable (50' included). Master has 3-position lever switch for standby, talk and listen, also volume control. Remote works from distances, has "beep" signal switch for buzzing master even when off. Ivory cabinets, 6 1/2 x 4 1/2 x 4 1/2".

Shpg. wt. 6 lbs. No. 36A20. (Less Batteries) Net..... **\$24.95**  
No. 36B25. Set of 4 Penlight Cells (AA) Per Set..... 56c



## EASY-TO-WIRE 2-STATION

Master plugs into 115 V. DC or AC (50-60 cy.) connects to remote through 2 cond. cable (50 ft.) furnished. Remote remains open, no switch to operate, so Master can hear at all times. Master has volume control, with on-off switch, separate press-to-talk switch and 6 ft. AC cord. Ivory all metal cabinets. UL approved Wt. 7 lbs. No. 36B122. E-Z Talk Complete System..... **\$14.35**



## WIRELESS NURSE

NEW EARS FOR THE HOME

MFG. LIST \$19.80

**\$13.50**

• "Listen-in" over any radio . . . No connecting wires needed.

Compact little unit picks up and transmits sound loud and clear through any radio by tuning in on unused frequency between 1300 and 1750 KC. No installation required—just place unit in nursery, sickroom, etc.—any place from which sound pickup is desired. Plugs into 115 V. 60 cy. AC or DC. No other wiring necessary. Attractive blue enamel. Size only 8 1/4 x 3 3/4 x 4 1/2" H. Shpg. wt. 4 lbs. UL approved. No. 36B168. Net Each..... **\$13.50**

## FAMOUS SCHICK ELECTRIC SHAVER AT FANTASTIC LOW COST!



REG. \$17.50 LIST  
**\$7.99**

Exclusive advanced design by the inventors of electric shaving

Sensational value, full-quality electric razor at a spectacular B-A Special Purchase price. Designed to handle every kind of beard and skin. Has the new exclusive Schick fast action shaving head with built-in whisker guides that gently press the skin down, pop up whiskers for close, clean, non-irritating shaves; new "Magna-Matic" motor for quiet non-radio interfering power and constant speed, 110 V. AC only . . . and a host of other fine features including the very tops in handsome styling. Shpg. wt. 2 lbs. Brand new, perfect. Standard factory warranty. With plaid waterproof pouch.

No. 60A186. **\$7.99** 4 Lots, **\$7.50**  
SPECIAL..... Each

## 24-HOUR WORLD CLOCK WITH UNIQUE SOUTH POLAR PROJECTION MAP



**\$8.47**

Beautiful Chrome Finish

• 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 cy. AC. UL approved. Wt. 1 1/2 lb. No. 37B282. Net Each (Tax Included)..... **\$8.47**

## QUALITY-BUILT ATTACHE CASE

**\$4.98**

COMPARE AT OVER \$10.00

CHOICE OF GINGER OR PALOMINO TAN

TIMELY B-A SPECIAL PURCHASE MAKES POSSIBLE THIS EXCITING OFFER



DIVIDER MAKES HANDY WRITING SURFACE!

Sturdy all wood frame, yet lightweight for easy toting with convenient easy-grip carrying handle. Handsome, rich, leather-like scuff-resistance vinyl covering of lasting durability and finest professional appearance. Ideal for carrying and keeping important papers, documents, order pads, books, etc.; Perfect as a sample case, fine as a caddy for tubes, parts and small tools—plus hundreds of other applications. Compact, well proportioned and roomy. Size 17" x 11 1/2" x 4 1/4". Nickel plated lugs. Choice of Color: Ginger or Palomino Tan, please specify preference. Shpg. wt. 4 lbs. Your complete satisfaction guaranteed. No. 36B222. Each..... **\$4.98**

## LIGHT SENSITIVE PHOTO EYE

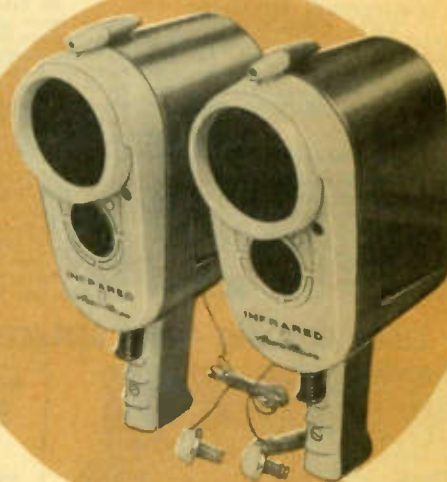
TURN LIGHT ON AT DUSK AND OFF AT SUNRISE



Just plug lamp or other light into standard outlet on rear of "Photo-eye". Light sensitive photo cell does the rest. Automatically turns light on when it gets dark, off when it gets light again. Wonderful for house protection, store displays, etc. Handles up to 300 watts, or will handle heavier loads with external power relay. Neat black bakelite case, size only 3 3/8" L x 1 3/8" W x 2 3/4" H. Rubber suction feet holds to any surface. Complete with 6 ft. cord for 117 V. 60 cy AC. No. 17A405. Special Import Value..... **\$4.95**

## NEW! INFRARED ASTRO-PHONE NO WIRES—SENDS VOICES 100'S OF YARDS ON BEAM OF INVISIBLE LIGHT!

USES NEW SPACE AGE PRINCIPLE



\$29.95 LIST  
**\$24.50** PAIR

• HOUSE-TO-HOUSE • CAR-TO-CAR • BOAT-TO-SHORE

Simply aim and talk! Hold two-way "walkie-talkie" conversations anywhere within line of sight . . . indoors or out . . . day or night. Talk in secret . . . through glass . . . around corners with mirrors. Each phone sends and receives simultaneously. All-transistor amplifiers ready for instant use without warmup. Telephone like clarity from high quality earset. Housings are high-impact styrene, designer-styled in attractive red and aqua with gray trim, approx. 3 1/2" x 10 1/2" x 6 1/2" overall. Powered by three (D size) flashlight batteries (not included). No. 37B87. Per Pair..... **\$24.50**  
No. 37B88. Battery kit for above..... 84c

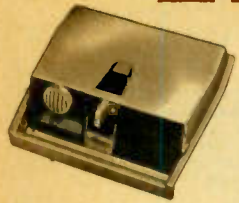


# PORTABLE TRANSISTORIZED TAPE RECORDER

**NEW! EXCITING!  
BUDGET PRICED!**

MFG. LIST \$29.95

**\$21<sup>97</sup>**



Truly portable, weighs less than 2 lbs. . . . records anything, plays anywhere. Battery powered—no electrical plug-in needed. Simplified single control foolproof operation . . . wonderful for young people whether for fun or learning—memory work, language courses, speech training, etc. Mom or Dad might even want to borrow it for personal correspondence (tapes are mailable). Erases old recordings automatically while recording—tapes can be used over and over again or kept indefinitely. Supplied with sensitive crystal microphone, 150' tape, take-up reel and instructions. Has built-in Alnico V speaker for playback. High impact plastic carrying case with molded in handle. Size only 8 1/4 x 9 1/4 x 3 1/8". Shpg. wt. 3 lbs. Mfg. list \$29.95.

No. 32A293. Less Batteries. Each **\$21.97**  
No. 32A294. Battery Kit (Eveready 216 and 2 "D" Flashlight Cells) . . . 97c  
11A551. Extra Taps. 6 For . . . \$2.70

# ALL TRANSISTOR PERSONAL PORTABLE RADIOS

MFG. LIST \$9.95

**\$7<sup>35</sup>**

**NO GROUND!  
NO AERIAL!  
PRIVATE  
LISTENING MODEL**

MFG. LIST \$14.95

**\$10<sup>85</sup>**

**BUILT-IN  
PM SPEAKER  
POCKET  
SIZE**



Tiny . . . easily fits into purse or shirt pocket. Weight only 5 ozs. Truly fabulous! Offers fine listening pleasure, modern styling at lowest cost. Efficient 3-transistor plus diode reflex circuit assures ample volume through high quality earphone. Volume control permits adjusting volume to desired level. Featherweight, unbreakable plastic case measures only 2 1/4" W x 3 3/4" L x 1" thick. Operates over 500 hours on a single self-contained battery (Eveready 216).  
No. 60A187. All-Transistor Radio Complete with Earphone. **\$7.35** (Less Battery) Each . . .  
No. 21B141. Battery for above. . . 69c

A really big performing pocket-sized transistor radio at lowest cost! Special reflex circuit employs 3 transistors to provide fine tone quality through Alnico V speaker. Magnetic earphone included plugs in for personal listening. Volume control allows adjusting volume to desired level. Smartly styled high-impact plastic case measures 4 1/4" x 2 1/2" x 1 1/4", weighs only 11 ozs. Inexpensive to operate, uses one 9 volt battery (Eveready 216).  
No. 60A16. All-Transistor Radio Complete with Earphone. **\$10.85** (Less Battery) Each . . .  
No. 21B141. Battery for Above. Each . . . 69c

# BARGAIN PRICED 110 V. AC SIGNAL BUZZER



**39c**

FRACTION OF ORIGINAL COST

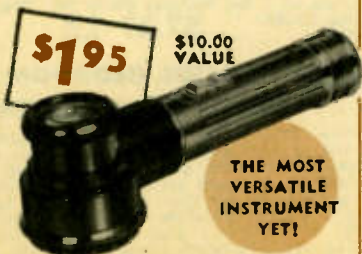
Produces loud buzzer tone. Can be used in place of bells, low voltage buzzer, etc. for call systems, alarms, warning devices on appliances and power equipment plus dozens of other useful applications. A real sweet find for the experimenter, a real money saver for the quantity user. Small 1 1/4 x 3/4 x 7/8" with 7" wire leads.  
No. 17A71. **39c** 10 @ **35c**  
Net Each . . . 39c Each . . . 35c

# HANDY ILLUMINATED MAGNIFIER

- Finest Import Quality.
- 5X Magnification with 2" Field.

Magnifies work 5 times giving fully illuminated clear view. Field of vision is 2" at 1 1/8" working distance. Unlimited usage for home, shop, and industry. Ideal for inspection of meter movements, fine soldering, printed circuits, spark plugs, documents, fabrics, etc. Perfect for hobbyist, experimenter, serviceman, photographer, doctors, laboratories and countless others. Uses two size C flashlight batteries. 7" long.

17B565. Less Batteries. Shpg. wt. 1 lb. Net Each. **\$1.95**  
21A2. Flashlight Battery. Ea. 14c



**\$1.95**

\$10.00 VALUE

**THE MOST VERSATILE INSTRUMENT YET!**

**A MUST FOR SUB-MINIATURE WORK, COUNTLESS OTHER USES**

# BATTERY-OPERATED TELEPHONES

3 POPULAR STYLES FOR DEPENDABLE 2-WAY COMMUNICATIONS

## NEW MODERN TELEPHONE

SET

**\$6<sup>88</sup>** PAIR

**DIAL NUMBER...  
PHONE RINGS!**

LICENSED BY

**Western Electric**

MADE IN U.S.A. (U.S. PAT. 2,811,100)

• Famous "Princess Styling as developed by Western Electric



Pick Up Phone—Dial Lights



Talk and hear—loud and clear—anywhere . . . indoors or out with this exciting new phone set. Provides exceptional voice transmission for hundreds of uses—perfect for room to room, house to garage, farm use, etc. Unique dial automatically lights when receiver is lifted. Dial signal bell at other end rings until phone is answered. Made of tough high-impact styrene. Complete with 25 ft. cable and simple instructions. Shpg. wt. 3 lbs.  
No. 37A449. Less Batteries. **\$6.88**

Per Pair . . . \$6.88  
No. 37A450. Battery Kit. (4 "D" Flashlight Cells) . . . 56c

## HAND PHONE SET WITH SIGNAL BUZZERS

Powered by self-contained flashlight batteries (935 Eveready or equivalent) and operated over two-conductor wire for distances up to 1 mile with exceptionally fine speech reception, comparable to that of any ordinary telephone. Each phone is equipped with built-in push-button buzzer.

Ideal for TV installers, construction gangs, portable communication systems in factories, on the farm, in homes, for emergency uses, etc. So simple in operation it can also be used by children for play. Molded of break-resistant high impact styrene. Complete with 25 ft. cable. Shpg. wt. 2 lbs.

No. 37A382. Less Batteries. Per Pair. . . **\$3.78**  
No. 37A383. Battery Kit. Each. **28c**  
No. 2B200. Weatherproof 2 cond. telephone wire for either phone set. 100 Ft. For . . . **95c**



**INCLUDES 50 FEET OF 3-CONDUCTOR TELEPHONE WIRE**

## DIAL PHONE SET BELL RINGS WHEN PHONE IS DIALED!

Nationally advertised Brumberger phones of high-impact black styrene. Provides amazing results for the surprising low cost. Has appearance of regular telephones with excellent voice reception. Convenient to use. Just pick up receiver, dial and signal bell rings at other end until phone is answered. Fine for house to garage, house to house, room to room—1001 applications. Complete with 25 ft. cable and simple instructions. Shpg. wt. 4 lbs. Less Batteries.  
No. 37B195. Per Pair. . . **\$5.97**  
No. 21B171. Battery Kit. Each **56c**



**BARGAIN PRICED \$5<sup>97</sup> Pair**

## BRUMBERGER MODEL 290 PROJECT-A-SCOPE

**ABSOLUTELY AMAZING \$6<sup>40</sup>**

**PROJECTS GIANT PICTURES FROM MAGAZINES, STAMPS, MAPS, DRAWINGS, ETC., IN COLOR OR IN BLACK AND WHITE WITHOUT FILM OR NEGATIVE**

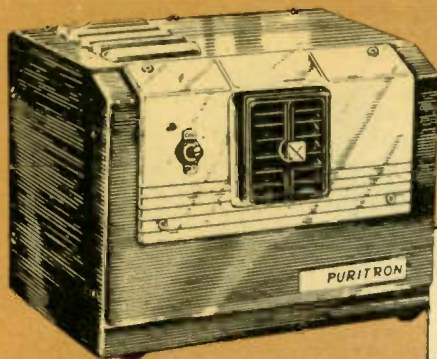
Amazingly versatile! Delightfully simple! Adjustable, focusing lenses. Place over anything flat—magazines, books, photos, drawings, comics, coins, stamps, maps, etc. for brilliant, giant enlargements projected in glowing true-to-life color or black and white on wall or screen. Lots of fun for everyone—young and old—for hobby, play and profession. Artists, collectors, lecturers, demonstrators, etc. will find it exceptionally useful. Made of hi-impact polypropylene. 110 V. AC-DC. UL approved. Uses ordinary 60 watt bulb not supplied, 12x8x4 1/2". Shpg. wt. 2 lbs.

No. 37A445. **\$6.40** 2 Lots Each . . . **\$5.70**  
Net Each . . . 201





# THE AMAZING ELECTRONIC AIR PURIFIER



## PURITRON

**NATIONALLY  
ADVERTISED  
& ACCLAIMED**

MFG. LIST \$39.95

**\$26<sup>97</sup>**

**FOR USE IN WORKSHOPS, OFFICES, LABS AND HOMES  
ESPECIALLY HELPFUL IN BEDROOMS AND KITCHENS**

**How Does PURITRON Operate?** PURITRON operational success is based on a new principle of air purification. Air is pulled into the machine, over a series of ultraviolet tubes (3-OZ4W GE Ozone Tubes), and through an impregnated filter, then back into the room. Odors, smoke, dusts, and pollen are removed. Constant re-circulation of the air makes for maximum efficiency in air purification.

**What Does It Cost to Operate?** PURITRON operates on standard 110 volt AC 60 cycle alternating current. Draws only 1.5 Amps. It costs approximately one cent for three hours of continuous operation. Since its current usage is so low, it will operate satisfactorily in older houses with even the most modest of wiring facilities and can be plugged into any outlet with no danger of overloading any facilities.

**How Safe? PURITRON** bears the Underwriters' label and has been found thoroughly safe electrically. It has been tested by E.T.L. for environmental safety and has been proven safe for use anywhere.

**Aid for Allergies.** Since the air is cleaned so thoroughly, airborne irritants which normally trigger asthma, sinus, and allergic reactions, are reduced. PURITRON thus brings relief to sufferers.

**Better Than a Kitchen Exhaust Fan.** Because PURITRON is so inexpensive . . . because no grease is allowed to accumulate . . . because it is portable, kitchen odors, smoke and dust are eliminated when and where necessary.

**Requires No Installation.** PURITRON weighs only 12 lbs. and because of its low current consumption may be plugged in anywhere and carried from room to room wherever needed. There is absolutely no extra wiring or installation necessary.

**Sturdy All Metal Cabinet** finished in neutral gray with chrome trim.

In addition to being used in thousands of homes nationally—PURITRON is currently being used in leading hospitals, doctors and dentist offices throughout the United States, and industrial users include the following: Pan American Airways, Westinghouse, U. S. Steel, Bethlehem Steel, DuPont, Dow Chemical, Sperry Rand, General Motors, The Armed Forces, Atomic Energy Installations and various Government Agencies.

**B-A Guarantees PURITRON to satisfy or Money Back.**

No. 37A81. Model F-20. (Measures 7 1/2" H x 9 1/2" W x 7" deep) For 15' x 15' Areas. Shpg. wt. 12 lbs. List \$39.95. Net Each..... **\$26.97**

No. 37A83. Model 800. Double size (Measures 7 1/2" H x 19" W x 7" deep) For 25' x 25' Areas. Shpg. wt. 20 lbs. List \$69.95. Net Each..... **\$46.63**

No. 37A244. "Executive" Model F-40. Tan Leathertone. (7 1/2" H. x 9 1/2" W. x 7" D.). For 20' x 15' Areas. Shpg. wt. 13 lbs. List \$49.95. Net Each..... **\$33.56**

No. 37A245. "Director" Model 900. Tan Leathertone. (7 1/2" H. x 19" W. x 7" D.). For 30' x 25' Areas. Shpg. wt. 20 lbs. List \$79.95. Net Each..... **\$52.46**

**Arvin**

**AUTOMATIC-THERMOSTAT CONTROLLED ELECTRIC HEATER**

**3 INSTANT HEATS** MFG. LIST \$34.95  
**\$24<sup>89</sup>**

Newest Ribbon Elements

Your room is always comfortable, never too hot, never too cold with this Deluxe Automatic Heater. Selector switch for choice of three thermostatically controlled heats—1000 watts/3000 BTU; 1320 watts/4500 BTU or 1650 watts/5600 BTU. Fan forced air over ribbon elements distributes heated air room wide. Exclusive Touch-N-Off safety control shuts heater off if overturned. Brass plated reflector and grill highlights modern slim design. Separate on-off switch. White enamel finish. 17 3/8" high, 17" wide, 4 3/4" deep. Wt. 14 lbs. For 115 volt 60 cy. AC. Complete with heavy duty cord and AC plug. U/L approved.

No. 34A305. Mfg. List \$34.95. Model 31H13. Net Each..... **\$24.89**

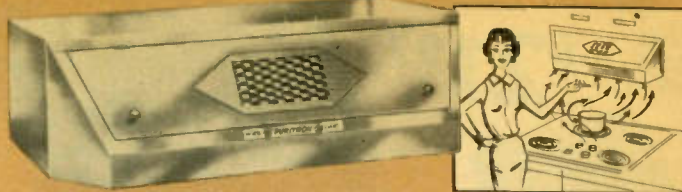
**NEW SUPERMATIC INSTANT HEATER**



**\$11<sup>91</sup>**

With Automatic Thermostat. Newest type ribbon element instantly gives heat with warm red glow. Adjust automatic control to desired temperature and heater will quietly warm the room without further attention. Turns off and on automatically as room temperature changes. Large polished chrome reflector concentrates heat in the direction you desire. Large, quiet fan provides rapid heat circulation. No radio or TV interference. Safety switch stops current immediately if heater is turned over. Absolutely child-safe, case is always cool to the touch. Tiny fingers cannot penetrate fine-mesh grille. Fully guaranteed for one year. Size 13 1/8" x 13 x 6 1/2". 1320 watts at 110 volts AC. Shpg. wt. 11 lbs. No. 36A346 Mfg. list \$17.95. Net Each..... **\$11.91**

# NEW PURITRON ELECTRONIC KITCHEN RANGE HOODS



LIST PRICE \$99.95

**\$72<sup>17</sup>**

- Removes smoke, grease, odors.
- No expensive installation . . . Just hang on the wall—that's all!
- No outside wall vents . . . no walls to break through.
- Noiseless.

Works even with the windows shut—electronically. This new Puritron Electronic Range Hood actually "inhales" grease, pulls cooking smoke and odors out of the air—in seconds. Works perfectly over electric or gas ranges. Superfine washable aluminum filter and baffled strainers trap irritants, then air passes before 6 wonder-working tubes that actually dissipate irritants—purify and recirculate air. Just think of it . . . **No More Greasy Walls, No More Smoky, Smelly Kitchens! Puritron Guarantees It!** Each unit below has a built-in single 60 watt lumiline fluorescent fixture with switch—complete with lamp. Complete with mounting hardware and instructions—installs in seconds. Operates on standard 110 volt AC 60 cycles.

Model 2030. STAINLESS STEEL (Measures 30" L x 15" W x 8" D). No. 40B208. Shpg. wt. 18 lbs. List \$94.95. Net Each..... **\$68.56**

Model 2036. STAINLESS STEEL (Measures 36" L x 15" W x 8" D). No. 40A358. Shpg. wt. 23 lbs. List \$99.95. Net Each..... **\$72.17**

Model 2042. STAINLESS STEEL (Measures 42" L x 15" W x 8" D). No. 40B209. Shpg. wt. 28 lbs. List \$114.95. Net Each..... **\$82.99**

Model 1030L. (Measures 30" L x 15" W x 8" D.) Shpg. wt. 20 lbs. List \$79.95. No. 40A352—APPLIANCE WHITE. YOUR CHOICE NET EACH..... **\$57.73**

Model 1036L. (Measures 36" L x 15" W x 8" D.) Shpg. wt. 23 lbs. List \$89.95. No. 40A360—APPLIANCE WHITE YOUR CHOICE NET EACH..... **\$64.93**

Model 1042L. (Measures 42" L x 15" W x 8" D.) Shpg. wt. 28 lbs. List \$104.95. No. 40A363—APPLIANCE WHITE YOUR CHOICE NET EACH..... **\$75.78**

## REVOLUTIONARY NEW BATHROOM PURITRON

**VENTILATES ANY BATHROOM ELECTRONICALLY WITHOUT WINDOW, EXHAUST FAN OR VENTS**

Push the button; all odors vanish into this electronic miracle. Quietly. Quickly. Permanently. Developed just for bathroom odors, it even works on diaper pails and pets. Vitalizes bathroom air to a wonderful clean-smelling freshness. No bigger than a table radio, it comes all ready to plug-in. Let it stand, hang it, mount it. White finish. 110-115 V. AC. With 6' power cord and plug. Shpg. wt. 7 lbs.

No. 37A94. Mfg. List \$29.95. Net Each..... **\$21.67**



**Sessions Electric Clocks**

FOR • SHOP • HOME • OFFICE

① "Director" Glont 13 1/2-inch dia. Hammered Blue-Gray enamel finished metal Case has Big 12 3/4-inch white Dial with contrasting Black numerals, hands, and sweep second hand. Wt. 5 lbs. List \$14.25.

37A262. Model 88950. 3 @ \$9.58 Each..... **\$9.12**  
Incl. Excise Tax. Ea.



## EXCITINGLY NEW & PRACTICAL KITCHEN CLOCK "LIMELITE" PANELESCENT ELECTRIC CLOCK

Set in a lustrous beaded frame. By day, its dial features large graceful black numerals and black hands, easy to see anywhere. Hobnail border adds a colonial accent. By night, its PANELESCENT dial emits a steady diffused light—enabling one to see the table, chairs, refrigerator, etc.—light also discourages prowlers when you're away. Lighted dial costs less than 1c per year to operate. 5 3/8" H, 6 3/8" W and 2" deep. Specify B-A Stk. No. and color. White, Red, Yellow, Turquoise or Suntan. Shpg. wt. 2 lbs. Includes excise tax. Mfg. List \$9.88. No. 37C66. 3 @ \$7.27 Each..... **\$6.86**



## MOST USEFUL BEDROOM CLOCK EVER DESIGNED "MOON GLOW" PANELESCENT ELECTRIC ALARM CLOCK

New SYLVANIA Panelescent dial face lights up with a soft glow and can be read easily from across the room, also acts as a night light. Also features a sweep second hand. Panelescent dial operates for less than 1c per year, no bulbs to burn out. Case is off-white dura-plastic, 3 1/8" H. x 2 1/4" D. with charcoal gray background for dial. Wt. 1 1/4 lbs. Includes excise tax. Mfg. list \$7.68. No. 37A11 3 @ \$5.63 Each..... **\$5.38**





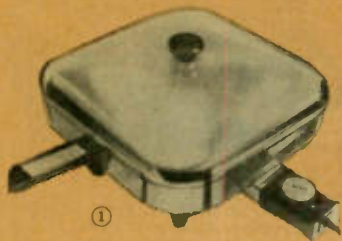
# B-A ACROSS THE BOARD SALE OF BRAND NAME APPLIANCES

**SATISFACTION GUARANTEED  
OR YOUR MONEY BACK**

**NATIONALLY  
ADVERTISED  
LIST PRICES  
FROM \$15.95  
TO \$19.95**

**CHOICE OF  
ANY  
APPLIANCE  
LISTED HERE**

**\$9<sup>99</sup>**



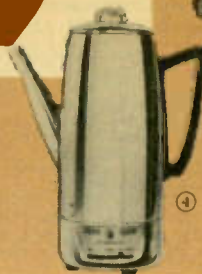
(1) Merit 100% Immersible 12" Fry-Skillet with Lid and Probe. Wt. 6 lbs.  
No. 34A111. Special. **\$9.99**



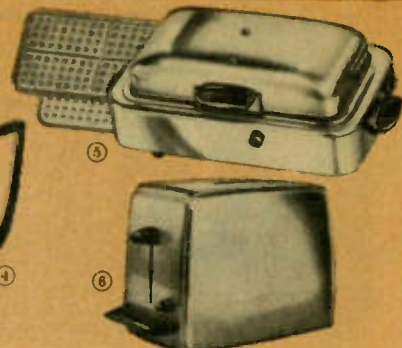
(2) "Magic Maid" by Son-Chief. Exclusive coiled cord. Huge 35 sq. inch ironing area. Largest tank capacity... over 8 oz. Jet-action vents for smooth steam—"no spotting." 1000 watt element.  
No. 31A139. Wt. 5 lbs. **\$9.99**



(3) Iona Deluxe 3-Speed Hand Mixer. White, double beater with ejector.  
No. 31A302. Wt. 3 lbs. Special. **\$9.99**



(4) Merit 2-15 Cup Automatic Percolator. Rod type heating element. Flavor selector and card. Wt. 6 lbs.  
No. 34A110. **\$9.99**



(5) Superlectric Automatic Waffle & Sandwich Grill. Light on when done. With interchangeable grids. Wt. 10 lbs.  
No. 37A79. Special. **\$9.99**



(6) LASKO Automatic Pop-Up Toaster—compensating thermostat assures uniform color. Gives years of service.  
No. 34A115. Special Each. **\$9.99**

## CHOICE NATIONALLY ADVERTISED APPLIANCES

(1) MAGIC MAID. Super size 13 x 13 1/2" automatic grill & waffle. With reversible grids—opens flat like a griddle too. Wt. 11 lbs.  
No. 36A345. Mfg. list \$21.95. Net Each. **\$14.63**

(2) MAGIC HOSTESS ELECTRIC ICE CRUSHER. White with chrome. Holds full tray of cubes. Dial-your-ice selector. With cord and Recipe Book.  
No. 31A122. Shpg. wt. 11 lbs. List \$29.95. Net Each. **\$19.97**

(3) OSTER ELECTRIC KNIFE & SCISSOR SHARPENER. White. With switch. Keeps edge of any knife. Plus separate scissors slot. Wt. 6 lbs.  
No. 37A219. Mfg. List \$17.95. New Model 518-01. Net Each. **\$12.97**

(4) SUPERLECTRIC ELECTRIC 3-QT. CORN POPPER. With clear lid  
No. 36A74. Wt. 3 lbs. List \$5.50. Net Each. **\$3.69**

(5) HIGHLANDER "SCOTTY" TOASTER-BROILER with Automatic Heat Control. A handy appliance that's a real joy to the budget-minded housewife. Wonderful for breakfasts, buffets, and snacks. Thermostatic heat control, cool-touch handles, removable grill rack and two-position tray are just a few of Scotty's many features. Will not mar table top... cooks anywhere. Size 10 1/2 x 9 x 4 1/2". Finished in gleaming chrome. Has 6 ft. cord and plug. UL approved. Model SO-7T. Shpg. wt. 6 lbs.  
No. 34C230. Mfg. List \$9.95. Each. **\$7.47** 3 Lots **\$6.97**

(6) IONA 2-SPEED ELECTRIC BLENDER. Large 38 oz. Pyrex type container. Heavy duty motor. "Good Housekeeping" seal.  
No. 36A68. Shpg. wt. 11 lbs. List \$29.95. Special Each. **\$16.66**

(7) BVI Model N-550 AUTOMATIC ELECTRIC CAN OPENER. Opens any size can—one touch lever... locks, pierces, opens and shuts off.  
No. 36A344  
Mfg. list \$19.95. Special. **\$10.97**

(8) OSTER CHROME AIRJET ELECTRIC HAIR DRYER. Complete with hood. Shockproof—tilts at any angle. Fuse protected against burn-out.  
No. 37A218. Shpg. wt. 5 lbs. List price \$21.95. Net Each. **\$15.97**



## NEW Shetland AUTOMATIC DISPENSING MODEL T-39 FLOORSMITH RUG CLEANING FLOOR POLISHER SCRUBBER-WAXER-BUFFER



**GUARANTEED 3 YEARS NO MONEY DOWN** MFG. LIST \$59.95 **\$43.29**

Shetland's finest, Model T-39 Floorsmith offers a completely automatic method of floor and rug care. Self-contained automatic dispenser is rust and break-proof and translucent for easy see-through convenience. Easily removed for filling with wax, shampoo, or scrubbing solution. Self-storing, self-wringing spreader sponge assures easier scrubbing and waxing coverage. Built-in finger-tip trigger automatically dispenses all liquids. Complete with 2 polishing brushes, 2 scrubbing brushes, 2 lambswool bonnets, reversible steelwool pads, rug cleaning unit and sample of Shetland rug cleaning shampoo. Powerful heavy duty motor drives brushes at 600 RPM. 3 Year Guarantee, UL approved, has Good Housekeeping seal of approval. PLUS: Free \$2.49 Upholstery Kit. Shpg. wt. 20 lbs. No. 40A375. Model T-39 "Floorsmith." **\$43.29** Net Each.



**GUARANTEED 2 YEARS** **SHETLAND 104 SUPER SPECIAL ELECTRIC AUTOMATIC DISPENSING SCRUBBER-WAXER-BUFFER**

Features finger-tip control for economical wax dispensing. Gentle floating action brushes adjust automatically to every rug thickness. Anyone can shampoo any 9x12' rug with professional results in less than an hour, at a cost of less than 50c—this Shetland actually pays for itself in one round of rug-cleaning. Complete with polishing brushes, felt buffing pads, scrubbing and scouring pads, rug cleaning unit and automatic liquid dispenser. 110 V. AC-DC. Wt. 17 lbs. No. 40A84. **\$24.97** Model 104. Special.

## TROY VACUUM CLEANER WITH 8 DELUXE ATTACHMENTS

### DUSTMASTER PORTAMAID WITH SUPER SUCTION



**B-A SUPER SPECIAL \$19<sup>97</sup>**

Powerful — light as a handbag, weighs only 3 1/2 lbs. yet does everything a full size cleaner can do. Carry it like a shoulder bag — with no lifting or tugging around a heavy appliance. Super-jet suction power from high-speed motor surges out and devours dirt. Sturdy unbreakable construction with dual purpose empty-out or disposable bag. Comes complete with 8 attachments: Dusting Brush, Crevice Attachment, 2-Piece Extension Wand, Shoulder strap, Revolving Service Brush, Utility Service Tool, Flexible Hose Attachment and Filter Bag. **EXTRA PLUS FEATURES:** Sure grip handle, large push-button off-on switch, 15 ft. power cord wraps around specially designed handle for neat storage, leg rest for standing unit upright, special hang-up device. PLUS One Year Written Guarantee. UL approved. Shpg. wt. 10 lbs. No. 37A82. Complete Outfit. Net Each. **\$19.97** No. 37A53. Pkg. of 6 Filter Bags. Per Pkg. **76c**

COMPARE AT TWICE THE PRICE





# KitchenAid FOOD MIXERS

**WORLD'S FINEST. GIVE GENERATIONS OF DEPENDABLE SERVICE**

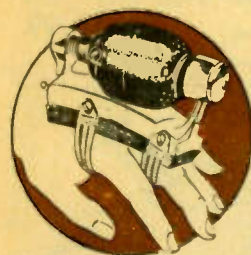
## SUPER-POWER MODEL K5-A

Deluxe, Extra Power and Extra Capacity (5-quart bowl). 1000's in use in commercial kitchens and large homes. 1/6th H.P. motor is self-lubricating. 10 definite-step speed control has intermediate speeds for every mixing need PLUS planetary beater action. Built-in power unit for many attachments. Equipped with 5 qt. tinned steel mixing bowl, wire loop beater, flat beater and pastry knife. Cast base is 11x12", total height 17". For 115 volt AC or DC. Wt. 35 lbs. List \$159.50 (Stocked in White only).

No. 31A311. \$113.17 3 Lots, \$106.10  
Net Each..... Each.....



**NEW! KITCHEN-AID MODEL 4C.** (Now with larger 4 qt. capacity). Full 1/8 H.P. motor, electrical governor controlled, 10 definite speeds for every need. Easy to read up-front mixing guide and motor speed control. Has recessed easy-hold hand grip. Cast base 8 7/8" x 13 7/8", overall height 13 3/8". Complete with 4 qt. pyrex bowl and planetary beater. 110 volt AC-DC. Wt. 26 lbs. Mfg. List \$74.50.  
No. 31A308. Model 4-C (Stocked in White only). Net Each..... \$54.83

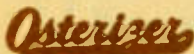


## Oster STIM-U-LAX JUNIOR ELECTRIC MASSAGER

MFG. LIST \$32.95 An outstanding value for general home massage. Its soothing, relaxing benefits will delight every member of the family. Not too vigorous, not too light. Black crackle enamel finish, long life Neoprene hand pad.

Highly polished aluminum base. Complete with booklet on massage, fully illustrated with directions for use. Shpg. wt. 3 lbs. Mfg. List \$32.95.  
No. 37A217. Model 4-01. Net Each..... \$23.99

**OSTER "SCIENTIFIC" MODEL 1-01—A PROFESSIONAL INSTRUMENT** Massage instrument for heavy-duty massage service wherever professional quality and performance are preferred. Universal motor construction with maximum eccentric stroke... delivers a more vigorous massage action. Durable lightweight polished aluminum housing and base. Shpg. wt. 4 lbs.  
No. 37A48. Model 1-01. Mfg. List \$46.95. Net Each..... \$34.16



## ORIGINAL 2-SPEED LIQUEFIER-BLENDER

\*EXCLUSIVE FEATURES NO OTHER BLENDER CAN MATCH

MFG. LIST \$52.95 **GIANT 40 OZ. CAPACITY**  
**\$38.54** Whips up favorite party drinks—blends smooth dips, spreads, souces, dressings.

Chops up fresh foods, purees foods for baby, diets. Utilizes leftovers... even grinds coffee. Refreshes frozen juices—makes beautiful drinks from fresh fruits and vegetables. \*EXCLUSIVE FEATURES: • Threaded cap fits standard canning jars. • Container opens at both ends. • Removable blades for thorough cleaning. • Tapered cutting well for continuous feeding. • Seal-tite Neoprene cover with removable full-ounce measuring cap for adding ingredients while operating. Powerful 1/4 H.P. motor. Shpg. wt. 16 lbs. Mfg. List \$52.95.

No. 34A202. Deluxe Chrome Model 403. Net Each..... \$38.54

**STANDARD WHITE OSTERIZER.** Single speed Model 234-01. Boasts the same \*EXCLUSIVE FEATURES as above but with single speed and white enamel finish. Shpg. wt. 13 lbs. Mfg. List \$29.95.  
No. 34A203. Model 234-01. Net Each..... \$23.86



## Oster COLD MIST WITH HUMID-I-MASK FASTER RESPIRATORY RELIEF

MFG. LIST \$39.95 **\$28.95** PORTABLE MODEL 240-06

Scientifically eases the discomfort of colds. For soothing and clearing clogged nasal passages, the COLD-MIST generates cool, finely atomized moisture that is now advocated by medical authorities.

Safe relief for children. COLD-MIST cannot burn or shock even on direct contact—use safely around the clock.

The Humid-I-Mask may be used to concentrate soothing COLD-MIST directly to nose and throat for immediate relief. A head strap adjusts mask comfortably... leaves hands free... and may be sterilized in boiling water to permit use by all family members.

Safe, easy to operate. Pour in 4 1/2 quarts tap water... plug in... enjoy 8 to 10 hours relief. When COLD-MIST runs dry, it continues to circulate air without damage to unit. Completely portable... move it where most needed.

Economical. Uses just 1/10 the electricity of hot type humidifiers.

Specs: Impact-type Polystyrene housing. Fully enclosed die-cast motor, permanently lubricated. 6 ft. cord with plug. 110-120 volts, 60 cycles AC, 55 watts. HUMID-I-MASK molded of tough Polypropylene. Shpg. wt. 11 lbs.

No. 37A50. Model 240-06. Mfg. List \$39.95. Net Each..... \$28.95

## Norelco EXCITING ALL NEW SPEEDSHAVER

Model SC7860

MFG. LIST \$29.95

**\$18.72**

FEATURING THE AMAZING NEW "FLOATING HEAD" ACTION



The greatest advance in shaving history, Norelco's exclusive floating heads follow every contour of your face, completely outdates all other ways to shave. Self sharpening rotary blades are larger than ever for speedier, smoother shaving. A newly designed motor automatically adjusts its speed to the load placed upon it. Two ingenious new pop-open side vents enable you to blow through the opening and clear out whisker dust instantly. Entire head is easily removed for brushout cleaning. Can be used on 110 or 220 volt AC or DC. With special adaptor plug included that lets you use it anywhere in the world. Complete with cord and handsome metal travel case. List \$29.95.

No. 60A29. \$18.72 2 @ \$17.97  
Net Each..... Each.....  
No. 60A30. Replacement Heads for Model SC7860. Net Each..... \$3.15  
No. 60A140. Heads for SC7830 & SC7900. Net Each..... \$2.25

## NORELCO SPORTSMAN Ideal For Anyone, Anyplace

2 flashlight batteries power shaver for 3 weeks of normal shaving.

Flip-top head for easy cleaning of twin shaving heads with self-sharpening rotary blades. Quick recoil cord pulls out for use, recoils automatically at touch of a button. Blue and white case has battery compartment, mirror in lid. Ideal for outdoorsmen, servicemen, anyone who travels. Shpg. wt. 2 lbs. Less Batteries.

No. 60A18. Model SC7930. Net \$12.97 2 Lots \$11.97  
Each..... Each.....  
No. 21A1 Batteries for above. (Requires 2). Net Each..... 14c

MFG. LIST \$29.95

**\$12.97**

ONE YEAR WARRANTY

Norelco Model SC7930



## ELECTRIC CAN-OPENER & KNIFE SHARPENER

CUTTING MECHANISM GUARANTEED 10 YEARS!

Worth twice the price—both appliances self-contained in one handy unit selling for no more than the cost of each separately.

Opens cans, quick and safe—place can under cutter, lever locks it in place and starts mechanism. Includes magnetic lid lifter. Sharpens knives factory "keen." Easy to clean. Beautiful baked enamel and chrome. Finger-tip switch operates both opener and sharpener. With easy-grip handle, AC cord and rubber feet. Size 7" H, 8 1/2" L, 5" W. Wt. 6 1/2 lbs.

31A168 Special Each..... \$18.88

MFG. LIST \$29.95

**\$18.88**

Our Finest Opener



## TOP QUALITY REGAL WARE AT B-A'S LOW, LOW PRICES!

### ALL-AUTOMATIC PERCOLATOR URNS

HOME LODGE OFFICE CLUB CHURCH CAFES

Simply pour in cold water... add coffee... and plug it in! It starts to "perk" automatically... stops perking and light signals when coffee is done... then keeps the coffee serving hot. Finest aluminum with Tomlinson faucet, bakelite handles and knob. Operates on 110-120 volt AC. Choice of 40 or 84-cup capacity. Glass gauge and switch on 84-cup size.

No. 34A317. #7000. 84-Cup Size. \$26.56  
Wt. 11 lbs. Mfg. List \$41.95. Net Each.....  
No. 34A316. #7006. 40-Cup Size. \$16.87  
Wt. 6 lbs. Mfg. List \$29.95. Net Each.....

MFG. LIST \$41.95

**\$26.56**

MFG. LIST \$34.95

**\$24.59**

FINEST QUALITY

## NEW KNAPP-MONARCH FAMILY-SIZE REDI-OVEN

For cooking complete meals—automatically with controlled heat. • Bake-A-Matic timer. • "Dial-A-Recipe" Control. Holds 3 lb. roasts—meat and vegetable dishes—8" pies—up to 3 TV dinners at a time. Set timer—bell rings when time has lapsed. Chrome exterior, porcelain interior. 6X10X14" long. 1150 watts, 10 amps AC only. 6' detachable cord, cooking and baking pan. Wt. 11 lbs.

31A279 Each..... \$24.59 2 @ \$23.42

K-M REDI-BAKER. Ideal for two people. Similar to above only smaller in size, 13 1/2 x 7 x 5 1/2". With cooking and baking trays. Mfg. List \$24.95.  
No. 31B240. Wt. 8 lbs. \$17.84 2 @ \$16.97  
Net Each..... Each.....





# Dormeyer ELECTRIC APPLIANCES THAT SERVE YOU WELL

## ① DORMEYER "COFFEE-WELL"

Bru-Vue handle shows from the outside the exact level of coffee or water. Signals when ready, holds proper temperature. Brew switch permits re-heating without re-percolating. 10-cup capacity. Shimmering Silver-Smith aluminum. No-drip spout for easy pouring. 110-120 V. AC. 6-ft. cord. Shpg. wt. 4 lbs. No. 34A191. Model CP-10-BU. Mfg. List \$20.95. Net Each..... **\$15.72**

② "COFFEE-CENTER" Auto. brews 10-40 cups. Chrome. Wt. 6 lbs. No. 34A318. Model CP-40CH. Mfg. List \$39.95. Net Each..... **\$29.63**

## ③ NEW DELUXE "SILVER STAR" MIXER EASILY DETACHED HEAD FOR PORTABLE USE

With Meat Grinder Attachments. Grinds meats, vegetables, nutmeats. Mixes egg whites to bread dough with 10 governor controlled speeds. Automatic bowl size indicator adjusts beater to any size bowl—gets all batter into action. Has chrome mixer head, two stainless steel bowls, beater release. New Phenolic scratch-proof base. 110/120 V. AC/DC. With recipe book. Wt. 16½ lbs. Mfg. List \$59.95. No. 34A195. Model SM-12-CH. Net Each..... **\$44.92**

## ④ DORMEYER AUTOMATIC POP-UP TOASTER

Toasts exactly to your taste—in any shade from light through dark. Set lighted Selecto-Matic 5-shade Color Guide—toast pops up perfect, every time. Wide wells hold muffins, rolls, etc. Hinged crumb tray. Chrome finish. 110-120 V. AC. Shpg. wt. 5 lbs. No. 34A193. Model TR-5-CH. Mfg. List \$20.95. Net Each..... **\$14.09**

## ⑤ DORMEYER 4-SLICE TOASTER

For families of three or more—this is terrific. Toasts 1 to 4 slices to perfection. Illuminated Selecto-Matic 5-shade color range-guide. Sparkling chrome with wide wells, double hinge tray. Ebony trim. 110-120 V. AC. UL listed. Shpg. wt. 8 lbs. No. 34A197. Model TR-6-CH. Mfg. List \$24.95. Net Each..... **\$16.22**

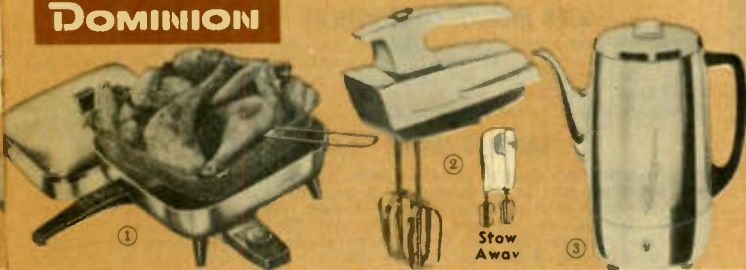
## ⑥ DORMEYER "FRI-WAY" ELECTRIC SKILLET

Fries, cooks, braises, bakes, stews and casseroles. Automatically controlled heat reduces food shrinkage—perfect results always. Detach Dormo-Stat control and submerge skillet completely under water for washing. Size: 12" square, in forged aluminum. With probe, high-dome vented cover, recipe book. 1150 watts, 110-120 V. AC. Wt. 6½ lbs. No. 36B210. Model SK-1-BU. Mfg. List \$24.95. Net Each..... **\$17.24**

### OTHER DORMEYER APPLIANCES

Stk. No.	Mfg. No.	Description	Weight	List	Net Eo.
34A196	HM-5	Portable 3-Speed Mixer	3½ lbs.	\$14.95	\$10.21
37B159	KS-2	Knife & Scissors Sharpener	4 lbs.	12.95	9.09

## DOMINION



① FULLY IMMERSIBLE ELECTRIC AUTOMATIC 12" FRY SKILLET Fries, bakes, stews, grills, braises, deep fries, casseroles, chafes. Temperature control to 420° with indicator light. 2½" deep aluminum 12" square design, 4-qt. Molded handle and assist handle on opposite side, no-mar feet. "Cast-in" rod type 1150 watt element. With high-dome vented lid, frying basket, plug-in thermostat control and recipe book. No. 36B209. Model 2256. Wt. 11 lbs. Mfg. List \$23.95. Net Each..... **\$16.74**

## ② NEW DOMINION "STOW AWAY" HAND MIXER

Only self-storing mixer. Beaters store in fins, removable cord wraps around handle. Push button releases large chrome beaters. Perfectly balanced. Lightweight—only 2½ lbs. Powerful 3-speed motor. Mixing speed guide. Sits back on wide heel rest; won't tip over. 110/120 V. AC/DC. No. 36A347. Model 1905. Mfg. List \$17.95. Net Each..... **\$12.04**

## ③ DOMINION FULLY IMMERSIBLE 4 TO 10 CUP COFFEE MAKER

Completely immersible—handle and all. Brews either regular or instant coffee. Accurate, pre-set thermostat. 110-120 V. AC. Indicator jewel; cup markings. Styled in polished aluminum, no drip spout. Wt. 3½ lbs. No. 36A348. Model 1610. Mfg. List \$16.95. Net Each..... **\$11.55**



SILVER STAR MIXER  
MFG. LIST \$59.95  
**\$44.92**

ALL ARE  
 APPROVED

## Remington LEKTRONIC SHAVER

6 DIAMOND HONED CUTTERS PLUS ADJUSTABLE ROLLER COMBS

MFG. LIST \$35.95

**\$23.37** NO POWER CORDS TO TIE YOU DOWN



Lets you shave anywhere in the world—charges on any AC power from 90 to 250 volts... at home, office, camp, auto, boat, with utmost convenience... ideal for everyday use, for travelers and sportsmen, too.

Secret of Lektronic is the rechargeable, built-in nickel cadmium battery, gives a week of shaves from one charge on 115 V. AC. With travel case.

No. 60A52. Wt. 3 lbs. Mfg. List \$35.95. Net Each..... **\$23.37**

ROLL-A-MATIC 659. Exclusive Roller Combs RISE for light beards and tender skin, LOWER for heavier, week-long beards, sideburns or mustache. 6 diamond-honed cutters. Instant cleaning. With cord, brush, travel case. No. 60B169. Wt. 2 lbs. Mfg. List \$26.95. Net Each..... **\$17.46**

AUTO-HOME ROLL-A-MATIC. Above features plus... works in car, boat, plane, train or home—anywhere 12 volt DC or 110 AC. With adaptor plug for 12 volt auto lighter socket. No. 60A166. Wt. 2 lbs. Mfg. List \$28.95. Net Each..... **\$18.66**

LADY REMINGTON. Adjusts for legs and underarms with adjustable roller combs. So safe—it can't chafe, can't nick or scrape. Petite—yet it shaves fastest, cleanest with 4 times as much shaving area. No. 60A164. Orchid. Wt. 2 lbs. Mfg. List \$18.50. Net Each..... **\$11.64**

### REPLACEMENT HEADS

No. 60A56. L22 For Roll-A-Matics & Rollectrics. Each..... **\$4.41**

No. 60A139. L9 For 60 Deluxe & World Wide. Each..... **\$4.41**

## NEW PRESTO 12-INCH "COOK 'N SERV" BUFFET FRY SKILLET

MORE VARIABLE HEAT THAN ANY OTHER FRY SKILLET

**\$17.88**

MFG. LIST \$28.70

FULLY SUBMERSIBLE

Complete with detachable control master and 12" vented dome cover. Featuring new popular left and right buffet handles for easier carrying and storing. Permanent mold construction... guaranteed never to warp. Provides more variable heat than any other skillet—as high as 1350 watts at the turn of a dial. 115 volts AC. Mfg. List \$28.70. No. 34A17-3. Skillet, Control & Cover, Special. **\$17.88**



## ① PRESTO SUBMERSIBLE STAINLESS STEEL COFFEEMAKER

Dripless spout, "Gold Anodized" coffee basket is easier to fill and clean. Presto makes coffee the one right way... light shows when to serve and is held at perfect serving temperature. 500 watts, 115 volts AC. With cord and measure. 2 to 9 cups. Wt. 5 lbs. Mfg. List \$24.95. No. 36A131. Model KK01. Net..... **\$16.84**

## ② PRESTO STEAM-DRY IRON

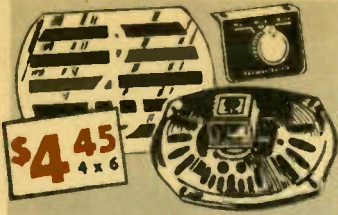
Has stainless steel 9 oz. water tank for 40 minutes steaming. More steam vents—21—more ironing surface than any other iron. Temperature control for all fabrics; switch for steam or dry! Beautifully styled, one piece construction. 115 V. AC... 1200 watts, wt. 5 lbs. Mfg. List \$16.95. No. 36A97. Model LM01. Net..... **\$11.53**

## ③ PRESTO STAINLESS STEEL PRESSURE COOKERS

No. 36A349. Model C601. 6-Qt. Mfg. List \$26.95. Dealer Net..... **\$17.97**  
No. 36B197. Model C401. 4-Qt. Mfg. List \$22.95. Dealer Net..... **\$15.30**



## AUTO REAR SEAT SPEAKER KITS



### FEATURES POPULAR NEW VARI-CONTROL

Permits control of volume on both front and rear speakers, allowing mixing as desired, or either speaker can be operated alone.

Includes control, indicator dial, knob, mtg. hardware, wire and instructions.

**\$4.45**  
4x6

### SUPER DELUXE KITS IN THREE POPULAR SIZES

All three kits consist of top make, finest quality oval PM speaker with extra heavy Alnico V Magnet, vari-control kit, chrome-finished grille with flocked screen, all necessary mtg. hardware, and instructions. Determine kit needed by size of opening or available space in automobile rear deck. Shpg. wt. 3 lbs.

4x6" KIT	5x7" KIT	6x9" KIT
Magnet wt. 1.47 oz. Speaker mtg. ctrs. 3 5/8 x 4 5/8. List \$9.95. No. 36B47. Complete.... <b>\$4.45</b>	Magnet wt. 1.47 oz. Speaker mtg. ctrs. 4 3/8 x 4 3/8. List \$11.95. No. 36B48. Complete.... <b>\$4.95</b>	Magnet wt. 2.15 oz. Speaker mtg. ctrs. 4 3/4 x 6 5/8. List \$13.95. No. 36C71. Complete.... <b>\$5.95</b>

LIST \$15.95  
**\$7.97**

TRUE FIDELITY  
LISTENING  
PLEASURE ON  
THE ROAD

### "PRESENCE" REAR SEAT SPEAKER KIT

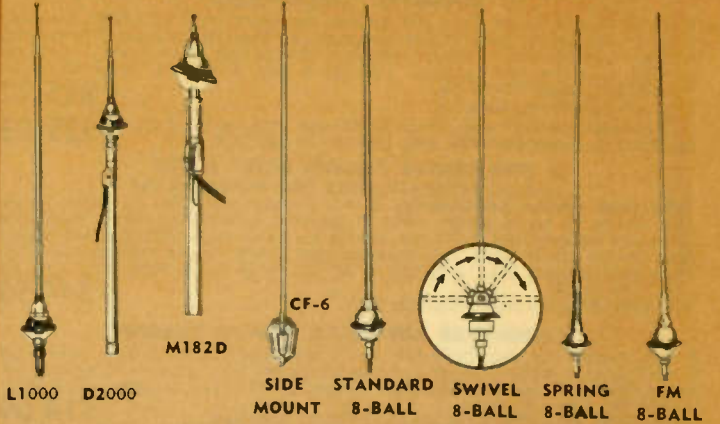
Here's better sound for in-the-car listening pleasure! Features a powerful, high quality, heavy-duty (3.16 oz. Alnico V) twin-cone 6x9" PM speaker. High fidelity in design with inner cone utilized to reinforce the high frequency tone providing a more balanced and wider frequency range.

Kit complete with deluxe chrome-finished grille with flocked screen, popular vari-control (permits mixing volume as desired of front and rear speakers), all necessary mounting hardware and instructions. Shpg. wt. 4 lbs. List \$15.95.

No. 36B69. Complete Kit..... **\$7.97**

POPULAR  
VARI  
CONTROL

## WARD PRODUCTS AUTO RADIO ANTENNAS KNOWN WORLD WIDE FOR FINE QUALITY



Triple chrome-plated brass tubing. Completely waterproof, rattle-proof construction. Low loss Elektron lead cables.

### "LOCK-MATIC" SERIES

Highest "Q" ever gives better reception. Superb waterproof construction and polystyrene insulation provide lasting high efficiency.

Automatic triple-lock hardware is positive and foolproof. Positions itself automatically, holds antenna permanently in desired position. Installs in seconds by one man from the outside. So strong that usual shield tube braces for disappearing types are unnecessary. Fits all cars, even the new '62 models.

L1000 and D2000 have 54" low loss lead cables. M1825, recommended for foreign, sports and American compact cars, has 48" cable.

Stk. No.	Ward Type	Description and Size	Wt. Lbs.	Mfg. List	Net Each
38A37	L-1000	Universal 3-Sept. 22 to 56"	2	\$4.65	\$2.72
38A38	D-2000	Disappearing 3-Sept. 1 to 45"	2	6.15	3.60
38A123	M-182 D	Disappearing 3-Sept. 1 to 25 3/4"	2	3.50	2.06

### SIDE MOUNT CONTINENTAL "FLEX-ANGLE"

Perfect fit and styling for Volkswagen and other foreign cars. Also suited for cab mount on trucks, etc. Sturdy stanchion mounts easily, adjusts and locks antenna vertically. 36" lead cable. Wt. 2 lbs. Mfg. List \$5.95.

No. 38A39. Type CF-6  
3-Section 22 to 56". Net Each..... **\$3.50**

### FAMOUS WARD "8-BALL" SERIES

Top favorite, top quality antennas with the genuine Ward Products rattle-free 8-ball mount. Smart appearing on any car. Sections telescope smoothly, have phosphor bronze contacts for permanent high efficiency. Very easy to install. TCF-3C fits top cowl or fender; new SB-100 Swivel 8-Ball fits every car, tilts through 180° for any surface angle from horizontal to vertical. New DS-8 Spring 8-Ball will absorb shocks without breaking. High tensile stainless steel and brass construction. All have 54" low loss lead cable.

Stk. No.	Ward Type	Description and Size	Wt. Lbs.	Mfg. List	Net Each
38A48	TCF-3C	Standard 3-Sept. 22 to 56"	2 1/4	\$4.40	\$2.00
38A72	SB-100	Swivel Type 3-Sept. 22 to 56"	2 1/4	5.20	2.97
38A73	DS-8	Spring Type 3-Sept. 22 to 56"	2 1/4	7.95	4.67

### FM FIBREGLASS 8-BALL ANTENNA

Operates the new FM auto radio tuners at top high efficiency, provides the full fidelity of FM even in low loss signal areas. Made of ever-lasting fibreglass, pre-cut at the factory to 31 inches. Never needs adjustment. Has 54" low loss lead cable. Mfg. list \$5.95. Wt. 2 lbs.

No. 38A74. Type FM-100. Net Each..... **\$3.50**

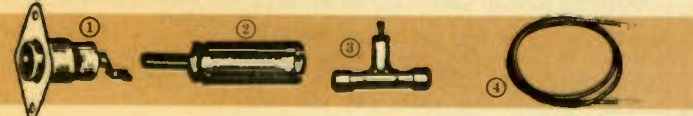
### UNIVERSAL REPLACEMENT ANTENNA MASTS



① Standard Telescoping Mast. Fastest and easiest way yet devised for replacing broken antennas. No need to re-mount a complete new installation. Bell shaped collar slips onto stub of broken mast and fastens with set screws. 3 sections, telescoping 24" to 57". Shpg. wt. 1 lb.  
No. 38B44. Net Each..... **\$1.32**

② Flex-O-Rod Replacement Mast. Spring supported 1 piece rod flexes when antenna strikes any object. Prevents damage so often incurred by leaning against antenna while servicing car. Fastens to broken antenna stub with set screws. Length 26". Shpg. wt. 1 lb.  
No. 38A125. Net Each..... **\$1.43**

### AUTO ANTENNA CONNECTORS AND LEADS



① Flange Mounted Receptacle. Fits standard pin plugs like ②, or male end of ③.  
12A1404. Each... 14c 10 For... \$1.29  
② Male Cable Plug. Standard type most often used. Mates with ① or female end of ③.  
12A1406. Each... 12c 10 For... \$1.08  
③ "T" Connector for Dual Antennas. Male pin plug internally connected to two female pin type sockets. Mates with ① and ②.  
18B1133. Each... 69c 10, Each... 59c

④ Universal Lead Cable. Handy 54" replacement cable. Fully shielded, highest quality. Has 3 sizes of nuts to mate connector on most any make antenna. Standard automotive pin plug on set end. Wt. 8 oz.  
No. 38A124. Net Each..... **\$1.09**  
Extension Leads Finest Coax Type  
No. 37A248. 12" Ext. Each... \$0.48  
No. 37A249. 24" Ext. Each... .63  
No. 37A250. 36" Ext. Each... .80  
No. 37A385. 12 Ft. Ext. Each... 2.21  
No. 37A386. 15 Ft. Ext. Each... 2.93

### AUTOMATIC "GLO-DROP" RESISTOR

ADAPTS 6 VOLT AUTO RADIOS  
FOR USE IN 12 VOLT CARS

High wattage Globar type resistor in ventilated, protective metal enclosure. Drops output to 6 or 7 volts under 4 to 20 amp normal current conditions. Enables use of 6 volt equipment from 12 volt source.  
No. 17B424. Workman GD1. Net Each..... **\$2.65**

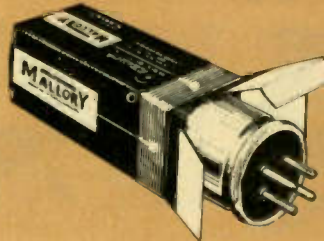
**\$2.65**

LOWER POWER TYPE FOR ACCESSORIES (Without enclosure)



Stk. No.	Amps	Watts	Net Each
17C421	2, 4 or 6	50	\$1.94
17C426	7 to 8	50	1.47

### MALLORY REPLACEMENT VIBRATORS



Quiet operating, long-lasting, "the standard of the industry".

If you are unable to identify the vibrator needed or do not have your Mallory Vibrator Guide — then order by stating year, make and model of set. B-A will select the replacement for you. \*Indicates Auto Radio Receiver type, priced including Fed. Excise Tax. Others are communications vibrators, not taxed.

MALLORY VIBRATOR GUIDE  
No. 19A26. Each 15c or Free with Order for Vibrators.

Please Order by "group" Stock No. 19A9 and Mallory Type Number

Mallory No.	Replaces Type	Rated Volts	Mfg. List	Net Each	Mallory No.	Replaces Type	Rated Volts	Mfg. List	Net Each
*294		6	\$4.90	\$3.02	*W1601	W859	4	\$4.90	\$3.02
*509P		6	4.15	2.56	*G1602	G883	12	4.70	2.90
*825S	825C	6	6.90	4.26	*1604	1100	6	4.90	3.02
*870		6	4.90	3.02	1701		6/12	9.60	5.64
*903M		6	3.60	2.22	G1801	G4549	12	8.55	5.03
1501	4501	6	6.35	3.73	G1801S	G725C	12	9.95	5.85
G1501	G4501	12	6.90	4.06	G1803C	G567C	12	9.95	5.85
1513	4513	6/12	6.90	4.06	1807	4548	6	7.70	4.53
1514	4514	6	6.90	4.06	G1807	G4548	12	8.55	5.03
*1601	859	6	4.70	2.90	1808	4546	6	7.70	4.53
G1601	G859	12	4.70	2.76	1813		6	7.70	4.53



Automatic

# TRANSISTOR AUTO RADIOS



MFG. LIST \$69.95

**\$46<sup>17</sup>**



**CUSTOM STYLED TO MATCH INSTRUMENT PANEL OF YOUR CAR**

**QUALITY FEATURES**

- Full range Tone control.
- Volumonitor Electronic level control.
- Tuned RF Stage for extreme sensitivity and selectivity.
- Easily installed, no Cables, no Brackets.



MFG. LIST \$59.95

**\$38<sup>82</sup>**



Finest Radio Performance Imaginable . . . with powerful chassis incorporating 7 high gain tuned circuits including tuned RF stage. Provides exceptional sensitivity and selectivity. Also features full AVC and full range tone control.

More Economical and Trouble-Free Operation . . . transistors and low voltage tubes assure longer life, increased efficiency and less than 1/2 the normal battery drain.

Instant operation at the flick of a switch.

Custom Appearance Like Factory Installed Radios . . . and at a tremendous savings. Custom fit behind dash in space provided by car maker.

Easy to install. Separate concert-quality speaker included.

## PUSH-BUTTON TUNING

Stk. No.	Make Car	Year	Mfg. List	Net Ea.	3 @ Ea.
32A142	Chevrolet	59-60	\$69.95	\$48.27	\$45.97
32A199	Chevrolet	61	69.95	48.27	45.97
32A143	Corvaire	60-61	69.95	51.42	48.97
32A170	Comet	60-61	69.95	46.17	43.97
32A144	Dodge	60-61	69.95	46.17	43.97
32A145	Ford	60-61	69.95	46.17	43.97
32A146	Falcon	60-61	69.95	46.17	43.97
32A201	Plymouth	61	69.95	46.17	43.97
32C32	Pontiac	61	69.95	51.42	48.97
32A172	Rambler	60-61	69.95	48.27	45.97
31A167	Volkswagen	58-61	59.95	44.07	41.97

BA will have 1962 models available when released by the manufacturer. Send us your orders for shipment at the earliest date.

## MANUAL TUNING

Stk. No.	Make Car	Year	Mfg. List	Net Ea.	3 @ Ea.
32C33	Chevrolet Truck	60-61	\$59.95	\$38.82	\$36.97
32A135	Chevrolet	59-60	59.95	38.82	36.97
32A198	Chevrolet	61	59.95	38.82	36.97
32A136	Corvaire	60-61	59.95	38.82	36.97
32A171	Comet	60-61	59.95	38.82	36.97
32C35	Renault Daup.	59-61	59.95	38.82	37.07
32A137	Ford	60-61	59.95	38.82	36.97
32A138	Falcon	60-61	59.95	38.82	36.97
32A141	Lark	59-60	59.95	38.82	36.97
32A193	Lark	61	59.95	38.82	36.97
32A194	Plymouth	61	59.95	38.82	36.97
32A197	Valiant	61	59.95	38.82	36.97
31A166	Volkswagen	58-61	47.95	34.75	33.57

## POWERFUL ATR TRUCK "KARADIO"

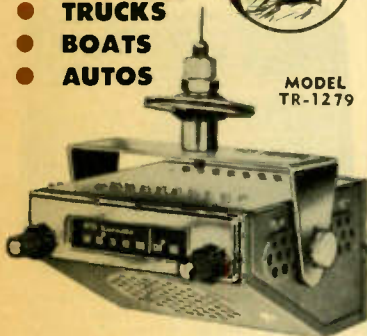
LIST \$59.95

**\$41<sup>96</sup>**

- TRUCKS
- BOATS
- AUTOS



MODEL TR-1279



Compact, self-contained, airplane-style radio especially engineered for trucks, boats and other vehicles where overhead mounting is advantageous. Installs quickly and easily in cab roof of any make or model (just drill one hole . . . connect one wire). Yoke-type swivel bracket holds radio securely at any required angle. 33" stainless steel flexible antenna mounts out of the way above cab roof on same stud holding radio. Lock-nut assembly assures watertight, trouble-free installation.

Powerful 6 tube superhet utilizing dual purpose tubes for 8 tube performance. Pulls in distant stations for finest "over the road" reception. Large easy to read dial. Automatic volume control (AVC), tone control. Large built-in PM speaker. Radio size: 7" deep, 4" high, 6 1/2" wide. Shpg. wt. 10 1/2 lbs. Complete ready to install with antenna List \$59.95.

No. 32A262. 12-V. Net Eoch **\$41.96**

Automatic

# TRANSISTOR UNIVERSAL RADIOS

**NEW! COMPACT!**

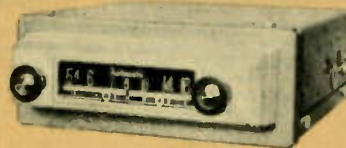
**FOR**

- AUTO
- TRUCK
- BOAT

IN-DASH OR UNDER-DASH MOUNTING

MFG. LIST \$39.95

**\$28<sup>95</sup>** Each 3 Lots



### COMPACT IN-DASH MODEL

Unlimited installation applications and one-piece construction. Exclusive design permits handsome custom mounting in most vehicles without extra mounting plates. Has removable escutcheon assembly to cover and completely trim dash cutout. Fine for under dash installation, too. Speaker self-contained. Size 7" L, 6 1/2" W, 2 1/2" H. Reversible polarity for negative or positive battery ground. Mfg. List \$39.95.

No. 31B83. Model R-61. 12-Volt No. 31A185. Model MU-60. 6-Volt

Choice Net Ea. **\$30.40** 3 @ Each **\$28.95**

MFG. LIST \$44.95

**\$33<sup>04</sup>**



### UNDER DASH MODEL

Designed for neat installation in all American and foreign cars, trucks, boats. Fits flush under dash, out of the way. Finished front requires no trim plate. Otherwise same one piece construction as model at left. Only 7" L, 6 1/2" W, 2 1/2" H. Has self-contained speaker. Can also be mounted in dash if desired. Reversible polarity for negative or positive battery ground. Mfg. List \$44.95.

No. 32C46. Model NU-26. 12 V. No. 32C76. Model UM-43. 6 V.

Choice Net Ea. **\$33.04** 3 @ Each **\$31.47**

MFG. LIST \$49.95

**\$37<sup>76</sup>**



COMES WITH WHIP ANTENNA

### ROOF TYPE, TURRET MOUNTING

Fits trucks, station wagons, boats. Slim silhouette requires minimum space for roof mounting. Turret requires only one mounting hole, allows easy positioning to contour of roof. Whip antenna, supplied, attaches to top of mount. 7" L, 6 1/2" W, 2 1/2" H. Mfg. List \$49.95.

No. 32C78. Model TUN-5. 12 V. Neg. Ground Polarity.

No. 32C79. Model TUP-6. 12 V. Pos. Ground Polarity.

Choice Net Ea. **\$37.76** 3 @ Each **\$35.96**



**B-A SPECIAL  
PURCHASE VALUES**

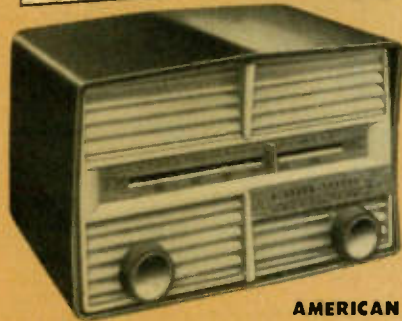
# ENJOY FM AT EXTRAORDINARY SAVINGS

MFG. LIST \$39.95  
**\$22.95**

**SAVE  
OVER  
40%**

MFG. LIST \$49.95  
**\$28.88**

**COLUMBIA  
6-TUBE FM-AM**



AMERICAN MADE



**COLUMBIA TRIUMPH III  
9 TRANSISTOR PORTABLE  
•FM •AM •SHORTWAVE**

**NO MONEY  
DOWN ON  
EASY TERMS**

MFG. LIST \$99.95  
**\$69.50**



## BLONDER-TONGUE FM RADIO

Unusual fine quality all American made with permeability tuner for matchless drift-free performance. 6 tubes including rectifier, super-sensitive built-in antenna plus extra stage of amplification gives powerful, sensitive (5 microvolts), noise-free operation far beyond the capabilities of the usual small FM set. Exceptionally good tone provided by special audio design which places wide-range speaker in proper position for full 360° sound dispersion.

Modern plastic cabinet in popular sandalwood. Size 8 3/8" W, 5 3/8" H, 6 7/8" D. 117 V. AC-DC. Shpg. wt. 4 lbs. Mfg. List \$39.95. No. 36A40. **\$22.95** 6 Lots **\$21.95** Special Each..... Each.....

## COLUMBIA 6 TUBE FM-AM

No finer value... exceptional in performance and appearance. Extra sensitive, extra selective with 6 tubes including rectifier. Has built-in antenna plus provision for external FM antenna in fringe areas where needed. 5-Inch speaker—larger than in most table radios—reproduces beautiful concert quality tone. Convenient, accurate slide-ruler tuning with large easy-to-read dial. Handsome modern cabinet in turquoise.

Highest quality import made for CBS Columbia. Size 13" L, 5" D, 6 3/4" H. 110-120 V. AC-DC. Shpg. wt. 5 lbs. Mfg. List \$49.95. **\$28.88** No. 30A285. Special Each.....

Absolutely terrific! Offers unusually fine entertainment to carry along anywhere. Listen to beautiful FM music from the large 4" concert quality speaker... news and sports coverages on AM—or tune in SW (1.5-3.5 megacycles) for aircraft and marine weather broadcasts. Advanced circuit with 9 transistors, and 3 diodes, push-button band selection, bass and treble tone control. Built-in disappearing, telescoping antenna to pull-in both distant and nearby stations with clearest reception.

Handsome rich black leather-grained case with chrome trim. Perfect compact size 9" W, 6 1/2" H, 3 1/2" D. Wt. 4 lbs. Mfg. list \$99.95. No. 30A277. Model C-615B. (Less Batteries). Net Each **\$69.50** No. 30A288. Battery Kit (6-935 Flashlight).....84c

**GREATLY  
IMPROVES FM  
RECEPTION**

**99¢**

## INDOOR FOLDED DIPOLE FM ANTENNA

Made of 300 ohm line with molded center connector. For installation in attic, flat under carpet, along baseboard, behind equipment, etc. No. 38A84. Net Each.....99c

## EXTRAORDINARY GRANCO FM TUNER MODEL T-300

**\$19.95**

**JUST PLUG IT IN...FOR  
SUPERB FM RADIO**



Never before at this low price an FM tuner to compare! Embodies the famous Granco coaxial tuner for super-selective FM reception even in fringe areas.

Complete with shielded interconnecting cable and plug for easily attaching to phono or tuner jack of any amplifier, phonograph, TV or tape recorder. Tuner FM: 88-108 MC. Sensitivity 5 microvolts for 20 db quieting. Freq. response 20 to 15,000 cps. Tubes: 12DT8 and 2-12BA6 plus two diodes and selenium rectifiers. Has sensitive built-in antenna. Neat, compact cabinet measures only 6 1/4" wide, 4" deep and 4 1/2" high. 105-120 V. AC-DC. Shpg. wt. 5 lbs. Blue or Ebony. No. 36A63. **\$19.95** 6 Lots **\$18.95** Net Each..... Each.....

## 9 TRANSISTOR 3 DIODE FM-AM PORTABLE

**SUPERIOR QUALITY AT  
TREMENDOUS SAVINGS**

**NO  
MONEY  
DOWN  
ON EASY  
TERMS**

IMPORT SAVINGS  
**\$59.50**

**ANTENNA TELESCOPES TO  
30 IN. FOR PULLING IN  
ALL STATIONS CLEARLY**



As sheer a delight to listen to as it is to look at! The last word in portability, looks and performance. Now—at lowest price ever—enjoy magnificent noise-free high fidelity FM plus AM broadcasts wherever you go. Compact portable battery-powered by 6 inexpensive flashlight (935) cells. Really powerful for exceptional long-range reception using 9 transistors and 3 diodes. Disappearing antenna for sharpness and clearest fidelity. Unusually fine vibrant tone provided by large 4" concert quality speaker teamed with push-pull audio output. Perfectly proportioned all wood cabinet in handsome rich tan leather grained covering with contrasting gold-tone trim. Size 9" W, 6 1/2" H, 3 1/2" D. Wt. 4 lbs. Expertly made West German import at tremendous savings. No. 36A354. (Less Batteries). Net Each **\$59.50** No. 30A288. Battery Kit.....84c

## BIG 50% SAVINGS ON HIGH FIDELITY FM TUNER



AMERICAN MADE

**NOW  
ONLY  
\$34.95**  
\$69.95  
VALUE

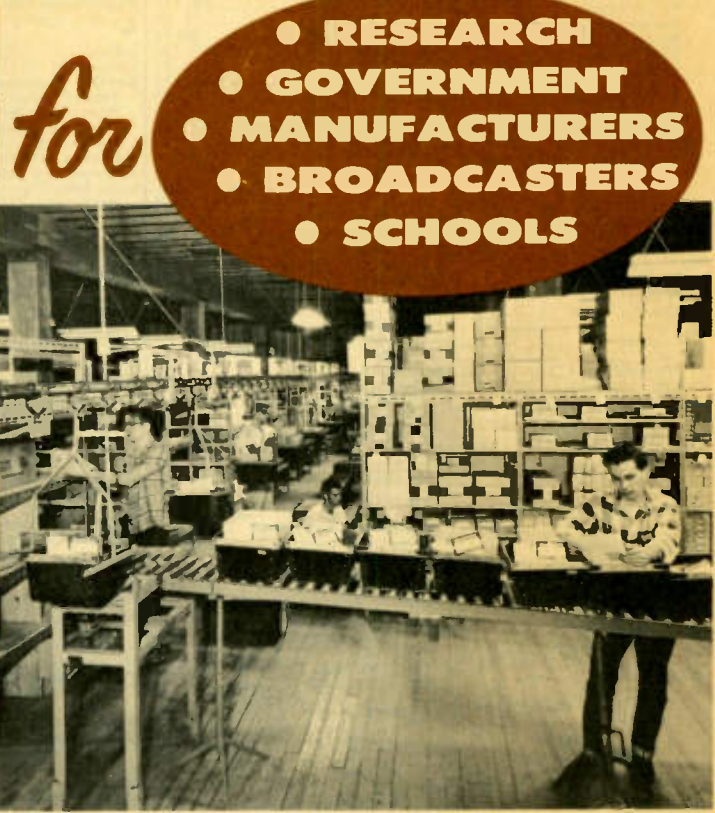
A truly exceptional value made possible by B-A's special purchase of the factories entire inventory. Just plug-in to hi-fi system, console, tape recorder—and even TV for finest FM broadcast reception. Quality built for performance to suit the most discriminating listener. Wide band, high sensitivity design with ratio detector and limiter for distortion-free, noise-free operation. Automatic frequency control (AFC) with defeat switch keeps all stations—near or far—accurately tuned and locked-in. Extremely sensitive (3 microvolt) for fine reception in FM fringe areas. Precision vernier tuning for easier, more accurate station selection 88-108 MC. Handsome, convenient low-boy styling for table, bookcase or custom mounting in cabinet. Size 4 1/2" H, 14 1/2" W, 6 3/4" D. Beautiful brushed brass with soft-back lighted dial and matching function control. Complete with cable and plug for connecting to amplifier. 110-120 V. 60 cy. AC. Shpg. wt. 8 lbs. No. 31A206. (Less Top Cover). Net Each **\$34.95** No. 31A208. Top Cover. Net.....\$4.95





# INDUSTRIAL Division

**YOUR COMPLETE SOURCE OF ELECTRONIC COMPONENTS**



*for*

- RESEARCH
- GOVERNMENT
- MANUFACTURERS
- BROADCASTERS
- SCHOOLS

Over 30,000 items in stock—hundreds not available from any other catalog. We have shown only a small section of our large modern facilities.

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## HANDY INDUSTRIAL INDEX

Acro .....	57	Clarostat .....	45	Guardian .....	52, 53	National Co. ....	68-72, 119	Standard Electrical Prod.....	40
Advance Relays .....	53, 55	Clevite .....	34	Hallcrafters .....	119, 120, 122, 123	National Electronics .....	33	Superior Electric .....	41
Aerovox .....	48-50, 89	Collins .....	121	Hammarlund .....	71, 119	Nutone .....	88, 104	Superior Inst. ....	138
Akro-Mils .....	151	Condenser Products .....	50	Heeger (LMB) .....	73	Ohmite .....	44, 46, 72	Supreme Publications .....	129
Alpha Wire .....	63	Continental Carbon .....	45	Hexacon .....	144	Perma Power 32, 42, 86, 140, 148		Switchcraft .....	11, 58, 65, 69, 117
American Beauty .....	144	Contrals Co. ....	55	Hickok .....	137	Pomona .....	68	Telex .....	126
Amperex .....	33	Cornell Dubilier .....	48-50, 82	Illinois Bronze .....	142	Potter & Brumfield .....	54	Terado .....	86
American Pamcar (AMP) 64, 149		Dialco .....	59, 60	Intermatic Timer .....	58	Pyramid Inst. (Amprobe Div.) .....	63	Thomas & Betts .....	64
Amperite .....	45, 55	Drake Mfg. ....	60, 89	International Rectifier .....	36	Quam .....	112	Thor-Speedway .....	87
Ampex .....	25	Drake Electric .....	144	IRC .....	45, 47, 181	Raytheon .....	32, 33, 41, 184	Times Wire .....	139, 155, 157, 159
Amphenol 45, 61, 68, 70, 83, 117		Dyma .....	151	Jerald .....	85	RCA .....	27, 31, 33, 98, 133, 135	Transitron .....	34
Arrow Fastener Co. ....	141, 150	Eastman Kodak .....	199	E. F. Johnson.....	65, 66, 71, 72	Reeves Soundcraft .....	27	Triad .....	37
Arrow Hart & H. ....	57	Eby .....	32, 42, 65, 67, 69	118, 123, 127		Rider Publications .....	127-129	Trimm .....	126
Astatic .....	28, 29, 115	Electronic Inst. Co. ....		J B T Instruments.....	135	Rohn .....	82	Triplett Inst. Co.....	134, 136
Atlas Sound .....	116	86, 96, 98, 118, 122, 124		Kepco .....	73	Sams, Haward W. Publications		Turner .....	115
ATR .....	86	Electronic Measurements 98, 137		Kester Solder .....	78, 145	32, 132, 133		Union Carbide (Eveready) .....	87
Belden .....	61-63, 83, 105, 115	Eimac .....	33, 72	Klein Tools .....	146, 148	Sarkes Tarzlan .....	35	Ungar Electric Tools Inc. ....	143, 148
B & K .....	32, 138	Electra Voice .....	28, 110, 113, 116	Kraeuter Tools .....	147, 150	Sencore .....	137, 140	University .....	110
Blonder-Tongue .....	85	Elgin National Watch Co. 53, 55		Littelfuse .....	142	Shure .....	9, 28, 114	Utica .....	147, 149
Bogen .....	104, 106, 107	Eric Resistor .....	51	LMB (Heeger Inc.) .....	73	Shurite .....	135	Waldam .....	64, 68
Borg .....	71, 73-75, 123	Fanuc .....	105, 106, 200	Leviton .....	57, 58	Sigma Inst. Co. ....	55, 89	Weller Electric .....	145
Bud .....	45	GC Electronics .....	32, 64, 73, 77, 78, 140, 141, 148, 149	Lowell Mfg. Co. ....	112	Signal Indicator .....	59, 60	Wen Products Inc. ....	144, 155, 157, 159
Burgess .....	87	General Electric .....	31-33, 60, 130, 133	Mallory 46, 48-50, 56, 69, 87, 206		Simpson Electric .....	134, 136	Westinghouse Electric.....	31, 33
Burgess Vibrocrafters 153, 157		General Instruments .....	36	Masco .....	105, 200	Skil .....	158	Winegard .....	79, 85
Cambridge .....	72	Gonsel .....	121-123	Millen .....	60, 69-72, 123	Smith, H. H. ....	65, 69, 77	Weston .....	135, 137
Cannon C. F. ....	126	Goodall Electric .....	49-50	Miller J W .....	42, 43, 72	Sola Electric .....	40, 41	Warner .....	89
Cannon Electric .....	117	Grayhill .....	58	Minnesota Mining & Mfg. Co. ....	27, 142	Sonotone (Battery) .....	88	X-Acta .....	153, 160
Carling .....	57	Greenlee Tool .....	150	Mueller Electric .....	65, 83	Sprague .....	48, 49, 51, 124, 138	Xcelite Inc. ....	147, 148, 160
Centralab .....	47, 50, 51, 56, 57			Mullard .....	8, 33	Stancor .....	37-40, 42		
Channel-Lock .....	46								
Cinch Jones .....	66-69, 77, 84, 123								



# INDEX

**A** Acoustic Insulation 10  
Albums, Record 12, 13, 190, 191  
**ALIGNMENT TOOLS** 140  
**AMATEUR EQUIPMENT**  
Antennas 124, 125  
Chassis, Racks & Panels 73-75  
Clocks 123, 200  
Code Lesson Records 127  
Condensers & Coils 50, 71, 123, 124  
Converters 103, 122  
Crystals & Sockets 123  
Filters, TVI 123  
Frequency & Grid Dip Meters 124  
Keys 123, 127  
Phone Patch 123  
Receivers 103, 119, 120  
Relays 55, 171  
Towers 82  
Transformers & Chokes 38, 39, 72  
Transmitters 120, 121, 122  
Tubes 31, 33  
Ammeters 63, 134, 135, 137  
**AMPLIFIERS, Hi-Fi & Stereo** 3, 3A, 5, 5A, 92-95, 192, 212  
Cabinets & Cases 75, 111  
Phono 102, 175  
Public Address 107, 108  
Recording 24, 197  
**ANTENNAS**  
Auto 206  
Citizens Band 125  
Coils 43, 183, 184  
Couplers 82, 83  
FM 81, 208  
Insulators 82, 83  
Kit 80, 101  
Mobile 125  
Relays 55  
Rotators 82  
TV 79-81  
Towers & Masts 82  
Transmitting 124  
Wire 61, 83  
**APPLIANCES, ELECTRIC** 202-205  
Appliance Testers 97, 138  
Assortments 44, 59, 76, 77, 178-180  
Auto Radios 207  
Accessories 206  
Antennas 206  
Automatic Testers 139  
**B** Baffles, Speaker 94, 102, 111, 112, 194  
Ballast Tubes 45  
Bargain Section 161-179  
**BATTERIES & PLUGS** 86-88, 185  
Chargers 86  
Clips 65, 86  
Eliminators 86  
Holders 86  
Tester 135, 137  
Binding Posts 69  
Binoculars 190  
Blowers 74, 170  
Books & Manuals 32, 33, 128-133, 184  
Boosters, TV Antenna 85  
**C CABINETS** 73-75  
Parts Bins 77, 151, 152, 178  
Relay Rack 74  
Speaker 73, 111, 112  
**CABLE & WIRE** 61-63, 82, 83, 105, 174  
Clamps 77  
Coaxial 61  
Connectors 61, 64-68, 83, 117  
Intercom & Mike 61, 62, 110  
Speaker 111, 62  
Test Lead 62, 140  
Cameras & Accessories 199A, 199B, 199C, 199D  
Capacitors 48-51, 71, 167, 180, 184  
Cartridges, Phono 9  
Mike 28, 175, 183, 193  
Cases, Plastic 114, 115  
Cement & Chemicals 73, 78, 142, 160  
Changers, Record 2, 7, 8, 107, 195  
**CHASSIS, Bases** 75  
Cradles 141, 150  
Punches 141, 150  
**CHOKES, Filter** 39, 40, 183  
RF 72  
Transmitting 39, 72  
Circle Cutter 150  
**CITIZEN'S RADIO Equip.** 103, 116, 118, 123, 188  
Antennas 125  
Clips, Battery & Fuse 59, 65, 86  
Clocks, Electric 123, 200, 202  
Coaxial Cable & Connectors 61, 183  
Code Practice Sets 102, 127  
Keys & Records 127, 172  
**COIL, Farms** 72, 167  
Dope 73  
RF, IF & Osc. 42, 43

Transmitting 72, 123  
TV Winders 42, 43  
**COMMUNICATIONS**  
Receivers 103, 119, 120  
Transmitters 122  
**CONDENSERS** 43, 48-51, 180, 184  
Ceramic 51, 71, 164, 180  
Electrolytic 48, 49, 165, 180  
Mica 50  
Motor Starting 49  
Mylar Tubular 49, 50, 164  
Oil Filled 50, 165  
Padders & Trimmer 51, 71  
Tantalum 50  
Testers 95, 98, 136, 138  
Variable 43, 71, 167, 184  
**CONNECTORS**, Cable 61, 67, 68, 183  
Fahnestock 65  
Microphones 68, 117  
Speaker 11, 68  
Converters, Power 86, 98  
Radio 102, 103, 122  
Television 85  
**CORDS, AC Line** 63, 89, 174  
Microphone 115  
Resistance 45  
TV Cheater 42, 182  
Coupling, Shaft 70, 71  
**CRYSTALS, Cartridge** 28, 175, 183, 193  
Detector, Sets & Kits 101  
Diodes 34, 112, 184  
Transmitting 123, 172  
**D** Decals 70  
Desk Lamps 90  
Detectors, Crystal 101  
**DIALS** 45, 70, 167  
Knobs & Accessories 46, 70, 71, 73  
Lights 60  
Megaphone 106, 195  
Meters, Panel 134, 135, 174, 185  
Exposure 199A  
**MICROPHONE** 101, 113-116, 185, 187, 188  
Cable 61, 62, 115, 117, 174  
Connectors 117  
Mixer 117, 188, 189  
Stands, Accessories 115-117  
Microspots & Microdials 45  
Mirrors, TV 141  
Mixers, Electric 203-205  
Mobile PA Systems 106, 107, 109  
Mobile Radio Equip. 103, 118, 121, 122  
Multiplex Adaptors 3, 9, 92  
Motors 29, 176  
Musical Instrument Pickup 189  
N Needles 29, 30  
Neon Lamps 60, 182  
Noise Filters 89, 123, 124, 182  
Nut Drivers 148, 160  
**Oscillators, Test** 96-97  
Code Practice 127  
Coils 42, 43  
Oscilloscope 96, 98, 135  
P. A. Systems 107, 109  
Paint, Lacquer & Varnish 78, 142  
Panels 75  
Panel Lamps & Assemblies 60, 182  
Panel Meters 134, 135, 174, 185  
Parts Bins 77, 151, 152, 178  
Peg Board 156  
Phone Patch 123  
Phones 127, 172, 201  
Soundpowered 106  
Phone Tips, Jacks, Plugs 65, 69  
**PHONO**  
Amplifiers 102, 175  
Arms 8, 29, 175  
Accessories 9-11, 28-30, 175, 193  
Cartridges & Pickups 9, 28, 175, 193  
Motors 29, 175  
Pre-Amp 9, 195  
Records 12, 13, 190, 191  
**PHONOGRAPHS** 14, 15, 19  
Photo Cell Equip. 32, 89, 171, 200  
Photo Flash Bulbs, Floods 199B  
Photo Equipment 199-199D  
Picture Tubes 32, 182  
Brightener 32, 42, 182  
Rejuvenators 32  
Testers 32, 97, 137  
Pillow Speaker 126, 176  
Pilot Bulbs & Sockets 60  
Spray 142  
Plugs, Electrical 68, 89  
Radio 65-69, 88, 185  
Polystyrene, Sheets & Tubing 73  
**PORTABLE Radios** 18, 102, 201, 211  
Phonos 14-15, 19  
Recorders 19-21, 198, 201  
Potentiometers 46, 47, 161, 185  
Pouch, Tool 146  
Powerstats 41  
Power Tools 139, 153-159  
Drills 139, 155, 158  
Grinders, Bench 156  
Encoder 157  
Paint Sprayer 157  
Sanders 157, 158  
Saws 158, 159

**KEYS, Code** 123, 127, 172  
Kitchen Aid Food Mixers 204  
**KITS, Alignment** 92-95, 102  
Amplifier 81, 101  
Antenna 81, 101  
Educational 99-101  
Hardware 76, 77  
Hi-Fi & Stereo 91-95  
Marking 151, 153, 160  
Polish & Sanding 154  
Printed Circuit 73, 78  
Power Supply 103, 162, 163  
Radio & Phono Osc. 101, 102  
Rear Seat Speaker 206  
Record Player 175  
Resistor 44, 180  
Test Instruments 96-99  
Transmitter 120, 122  
Tuner 91, 92, 94, 95  
Knives 149, 153, 160  
Knobs & Dials 70, 71, 167  
Kodachrome Film 199  
**"L", "LA" & "LL" Pads** 10, 46, 67, 177  
Labels 26, 63, 70  
Lamp Cord 62, 174  
**LAMPS, Fluorescent Desk** 90  
Neon & Panel 60, 182  
Photo-Flash & Flood 199B  
Projector, Movie 199B  
Light Fixtures 90  
Lightning Arrestors 83, 124  
Lubricants & Lubricants 78, 142  
Lugs, Soldering 66  
Solderless 64  
**M Magnet Wire** 63  
Magnifiers 141, 160, 201  
Magnetizer 148  
Manuals, Service 128-133  
Marking Tools 149, 151, 153, 160  
Masts & Towers 82  
Megaphone 106, 195  
**METERS, Panel** 134, 135, 174, 185  
Exposure 199A  
**MICROPHONE** 101, 113-116, 185, 187, 188  
Cable 61, 62, 115, 117, 174  
Connectors 117  
Mixer 117, 188, 189  
Stands, Accessories 115-117  
Microspots & Microdials 45  
Mirrors, TV 141  
Mixers, Electric 203-205  
Mobile PA Systems 106, 107, 109  
Mobile Radio Equip. 103, 118, 121, 122  
Multiplex Adaptors 3, 9, 92  
Motors 29, 176  
Musical Instrument Pickup 189  
N Needles 29, 30  
Neon Lamps 60, 182  
Noise Filters 89, 123, 124, 182  
Nut Drivers 148, 160  
**Oscillators, Test** 96-97  
Code Practice 127  
Coils 42, 43  
Oscilloscope 96, 98, 135  
P. A. Systems 107, 109  
Paint, Lacquer & Varnish 78, 142  
Panels 75  
Panel Lamps & Assemblies 60, 182  
Panel Meters 134, 135, 174, 185  
Parts Bins 77, 151, 152, 178  
Peg Board 156  
Phone Patch 123  
Phones 127, 172, 201  
Soundpowered 106  
Phone Tips, Jacks, Plugs 65, 69  
**PHONO**  
Amplifiers 102, 175  
Arms 8, 29, 175  
Accessories 9-11, 28-30, 175, 193  
Cartridges & Pickups 9, 28, 175, 193  
Motors 29, 175  
Pre-Amp 9, 195  
Records 12, 13, 190, 191  
**PHONOGRAPHS** 14, 15, 19  
Photo Cell Equip. 32, 89, 171, 200  
Photo Flash Bulbs, Floods 199B  
Photo Equipment 199-199D  
Picture Tubes 32, 182  
Brightener 32, 42, 182  
Rejuvenators 32  
Testers 32, 97, 137  
Pillow Speaker 126, 176  
Pilot Bulbs & Sockets 60  
Spray 142  
Plugs, Electrical 68, 89  
Radio 65-69, 88, 185  
Polystyrene, Sheets & Tubing 73  
**PORTABLE Radios** 18, 102, 201, 211  
Phonos 14-15, 19  
Recorders 19-21, 198, 201  
Potentiometers 46, 47, 161, 185  
Pouch, Tool 146  
Powerstats 41  
Power Tools 139, 153-159  
Drills 139, 155, 158  
Grinders, Bench 156  
Encoder 157  
Paint Sprayer 157  
Sanders 157, 158  
Saws 158, 159

**Power Supplies** 86, 103, 162, 163  
Pre-Amplifiers 9, 93, 195  
Projectors & Accessories 199A, 199B, 199C, 205  
**Printed Circuit Kits & Accessories** 73, 78  
Probes & Prods 96, 140  
Public Address Systems 106, 107, 109  
Puritron Air Purifiers 202  
**R** Rabbit Ear Antennas 80, 81  
Radio Kits 101-103  
**RADIO SETS** 16-19, 102, 201, 211  
AM-FM 16, 208  
Auto 16, 207  
Clock 16, 19  
Communications 103, 119, 122  
Table 16, 17, 208, 211  
Transistor, Portable 18, 102, 201, 208, 211  
Tuners 91, 92, 94, 95, 192, 208  
Reamers 150, 160  
Rear Seat Speakers 206  
**RECORDS, Accessories** 11, 30  
Albums 12, 13, 190, 191  
Blanks 29  
Changers & Accessories 2, 7, 107, 195  
Code Lessons 127  
Stereo 12, 13  
Test 10, 30  
**RECORDERS, Tape** 19-22, 25, 196-198, 201  
Recording Accessories 28-30  
Disc & Needles 29, 30  
Tape 27, 161, 189  
**RECTIFIERS, Dry Disc** 36, 182  
Instrument 135  
Selenium 36, 182  
Silicon 34, 36, 182  
Tube 31, 32, 181  
Relays 52-53, 171  
Relay Racks & Panels 74, 75  
**RESISTORS** 44, 45, 181, 206  
Glo-Bar 45, 206  
Kits 44, 45, 182  
Line Cords 45  
Precision 45  
RF Chokes & Coils 43, 72  
Rheostat, Power 46  
Rules & Gauges 2, 30, 133, 149, 154, 193  
**S** Sanders 157, 158  
Saws 158, 159  
Scotch Tape, Cellulose 142  
Electrical 63  
Recording 27  
Screwdrivers 147, 148, 156, 160  
Semi-Conductors 33-36, 184  
Service Aids 42, 73, 78, 133, 140, 142  
Shafts & Fittings 46, 47, 70, 71  
Shavers, Electric 200, 204, 205  
Shields, Tube 69  
Short-Wave Receivers 119, 120  
Signal Generators 96, 97, 138  
Tracers 97, 98, 138  
Skiller, Electric 203, 205  
Slide Rules 133  
**SOCKETS, Crystal** 123  
Electrical 68, 89  
Jones 67, 69  
Pilot Lamp 60  
Tube & Transistor 66-69, 166, 184  
**SOLDER** 78, 145  
Aids 141, 144  
Guns, Irons & Tips 143-145, 148  
Lugs 66  
Solderless Hand Tool 64, 149  
Solderless Terminals 64  
Solenoids 53, 55, 171  
Sound-Powered Phones 106  
Spacers, Brass & Insulated 77  
Spaghetti Tubing 63, 73, 179  
**SPEAKERS** 4, 6, 110, 112, 180, 185, 194, 195  
Baffles & Enclosures 3C, 94, 102, 111, 112, 194  
Crossover Networks 4, 176  
Grilles 112, 180  
P. A. Trumpets 126-176  
Pillow 126-176  
Transformers 38, 183  
Spray Paint 142  
Sprayers 157  
Stapler & Staples 141, 150  
**STEREO, Amplifiers** 3, 3A, 5, 5A, 92, 95, 192, 212  
Arms & Cartridges 8, 9, 28  
Accessories 9-11  
Record Changers 2, 7, 195  
Recorders 20, 22, 25, 196-199  
Recordings 12, 13  
Systems 3A, 3B, 3C  
Tapes 23, 196  
Tuners 3, 5, 92, 192  
Suppressors, Noise 125  
**SWITCHES** 46, 47, 56-58, 88, 168, 169, 180  
Antenna, Coax 55, 80  
Plates 56, 57, 70  
**SWITCH CLOCKS, Electric** 58  
"T" Pads 11, 46, 47  
**T** Tapes, Decks 24, 25, 94, 196  
Recording 27, 161, 189

**Recorder & Player** 19-22, 25, 196-199  
Accessories 26, 189  
Scotch, Electrical 63, 142  
Stereophonic, Recorded 23, 196  
Transparent & Marking 142  
Taps & Dies 148, 154  
Telegraph Keys 123, 127, 172  
Telephone Pickups 106, 189  
Telescopes 199D  
**TELEVISION**  
Antenna 79-81  
Antenna Accessories 82-85  
Boosters 85  
Components 42, 51  
Converters 85  
Distribution Systems 85  
Filters 84, 123  
Picture Tubes 32, 182  
Picture Tube Testers 32, 97, 137  
Rotators 82  
Towers & Masts 82  
Twin Lead 83  
Wall Plates 84  
Terminals, Soldering 66  
Solderless 64  
Terminal Strips 66  
**Test Equipment** 32, 86, 96-99, 135-139, 186  
Automotive Testers 139  
Amprobes 63  
B & K 32, 138  
Doss 138  
EICO Kits 86, 96-98  
EMC 98, 99, 137  
Hickok 137  
RCA 98, 135  
Seco 86  
Sencare 137  
Simpson 136  
Sprague 138  
Superior 138  
Triplet 136  
Weston 137  
Test Leads & Prods 140  
Test Light 141  
Timers 58, 169  
Time Delay Tubes & Relays 55  
Tip Jacks 203, 205  
Toasters, Electric 47, 64, 139-160  
Tools 144, 156  
Torches 144, 156  
**TRANSFORMERS** 37-42, 114, 162-163, 183, 185  
Audio 37, 38, 163, 185  
Filament 39, 163, 183  
IF, Ant & RF 42, 43, 183, 184  
Isolation 40, 162, 183  
Mike & Line 38, 114  
Modulation 37, 114  
Power 37, 39, 40, 42, 162, 183  
Powerstats 41  
Speaker 37, 38, 183  
TV 40, 42  
Voltage Regulator 40, 41  
Vibrator 39, 163  
Transistor 37, 39, 183, 185  
Transcription Players 106  
Transistors & Accessories 33-35, 67, 184  
Amplifiers 107, 175  
Converter 98  
Heat Sinks & Sockets 67  
Mike Mixer 117  
Radios 18, 102, 201, 208, 211  
Testers 32, 136-138  
Transmitting Equipment 121-124  
Tripod 199A  
Truck, TV 141  
Tubes, Ballast 32, 42, 182  
Brightener 32, 42, 182  
Caddy 32, 152, 181  
Cathode Ray 33  
Industrial 33  
Matched Pair 38  
Picture 32, 182  
Receiving 32, 161, 181  
Shields & Sockets 66-69, 166  
Special Purpose 8, 33  
Testers 97, 137, 138  
Time Delay 55  
Transmitting 33, 172  
Tubing 63, 73  
Tuners, AM-FM 3, 92, 94, 95, 192  
Turntables 8, 191, 212  
Tweeters 148  
**V** Vacuum Cleaners 203  
Vacuum Tube Voltmeter 96, 98, 135, 136, 138, 186  
Variable Condensers 43, 71, 167  
**VIBRATORS** 183, 206  
Vibro-Tools 153  
Viewers, Slide 199A  
Vises 152  
Voltage Regulators 40, 41, 45  
Voltmeters, Pocket 136, 186  
Volt-Ohm-Milliameters 96-98, 135-138, 186  
Volume Controls 10, 11, 46, 47, 177, 181, 185  
**W WIRE** 11, 61-63, 82, 83, 89, 105, 140, 172, 174, 177  
Gauges & Strippers 63, 141, 149, 160  
Wrenches 139, 148  
**Z** Zener Diodes 34, 36



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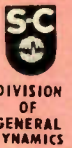
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