ALLIED RADIO

* * * * CORPORATION * * * *

833 WEST JACKSON BLVD . CHICAGO ILLINOIS



Everything in Pladio for 42

PAGES 198-199

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We honestly don't know where you can get a greater AC-DC value! Here's your best 'find' in an ideal 'extra' radio—for use on AC or DC—with all the performing ability, the tone quality and the handsome looks you want—at an amazingly low price that makes it the AC-DC "Buy" for 1942! Buy several—for bedroom, kitchen, living-room or den—don't miss this great value!

Built-in Loop Aerial. Here's the set you can carry and play anywhere. Has an efficient built-in loop aerial—no outside aerial or ground is needed—just plug in and play! Operates with equal efficiency from 105-125 voits, 40-60 cycles AC or from DC current (works on 220 volts also with adapter listed below).

Easy to Tune. You'll like tuning the easy-to-read illuminated Airplane Dial. Covers 540 to 1680 KC to bring you powerful standard Broadcast band reception and some police calls. Dial is handsomely calibrated both in kilocycles and meters for easy tuning. You'll log station after station without any effort.

1942 Superhet Circuit. The RCA and Hazeltine licensed circuit of the Knight 5 (with rectifier) gives you the equivalent of seven tube power and efficiency. Multi-purpose tubes are included, as follows: 12SA7GT is Osc.-Mod. (dual-purpose); 12SK7GT is IF; 12SQ7GT is Det.-AVC-1st Audio (triple-purpose); 50L6GT is Beam Power Output; 35Z5GT is Rect. This new 1942 circuit is designed for unusual tone and power results—you'll be amazed at the performing quality—it's rare in a radio of this compact size and low price!

For Extra Dependability, you get full Automatic Volume Control—keeps volume uniform on all programs; prevents fading. The surprising Beam Power Output is ably handled by the Electro-Dynamic Speaker and reproduced as just about the smoothest, most natural tone you've ever heard in a compact radio. There's also connection for outside aerial whenever longer-distance reception is desired. You get surprising "extra" value in this outstanding "extra" radio.

1942 Plastic Design. You'll be proud to own the Knight 5 because it will blend in with any room in your home. Available in your choice of either Walnut or Ivory, the Knight 5 features a charming plastic design, with softly-rounded contours, interesting step-back grille effect and beautifully framed dial escutcheon. Size: 9" long, 5¾" high, 5¼" deep.

Knight AC-DC 5 Complete. The Knight 5 Tube AC-DC Superhet is offered complete with tubes, as illustrated and described above. For operation from 105-125 volts, 40-60 cycles AC or DC. Shpg. wt., 6 lbs.

D-101. Walnut.

Value, \$14.95.

NET EACH, \$7.95. YOUR PRICE, LOTS OF 3, EACH... 7/5

D-100. Ivory. Value, \$16.95.

NET EACH, \$8.75. YOUR PRICE, LOTS OF 3, EACH....

\$825

49-580. 220 Volt Adapter for above set. NET...... 60c



YOU GET ALL THESE FINE FEATURES:

- Superhet Circuit
- Dynamic Speaker
- Full AVC Action
- Big Airplane Dial
- Built-in Loop Aerial
- 1942 Plastic Beauty

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Knight 6 TUBE 2 BAND AC-DC SUPERHET

Here's the "Super-Six" for 1942—the radio that's 'way ahead of the field no matter how you judge it! Yes, here's more radio for your money—more in cabinet beauty and up-to-the-minute styling—more in performance (two band reception at the price you'd ordinarily pay for just one band)—more in tone quality and power—more value all around! Prove this exceptional value for yourself on our 15 Day Trial and Money-Back Guarantee—see page 11. Just check these features:

Foreign Reception. You get extra value, extra entertainment with the wide, two-band range of the Knight 6 (with rectifier). Thrill to dependable Short-Wave foreign reception on the 5.7 to 18.3 MC range—get world news in the making—every day! And know the pleasure of powerful, true-toned reception of all American and Canadian standard Broadcast stations, on 535 to 1650 KC. You can tune easily on either band with the big Slide-Rule Dial that's set at "Eye-Line" vision angle—the finest new dial development in radio for 1942. Whether you tune Short Wave or regular Broadcast, you've got a real listening treat coming every time!

Plays Anywhere. The Knight 6 works equally well from 105-125 volts, 40-60 cycles AC or from DC (can also be used from 220 volts with adapter listed below). The new high-gain loop aerial—built right into the cabinet—gives you dependable reception. Just plug in and play—no fuss, no bother. (There's also provision for outside aerial connection whenever shortwave or stronger Broadcast reception is desired.) Nothing has been overlooked to give you outstanding radio convenience.

Brilliant 1.942 Circuit. You get just about the finest and latest engineering developments in the RCA and Hazeltine licensed circuit of the Knight 6. Newest type tubes give you actual 7-tube power and efficiency. 12SA7GT is Conv.; 12SK7GT is 1F; 12SQ7GT is Det.-AVC; 12SQ7GT is 1st Audio; 35L6GT is Power-Output; 35Z5GT is Rect. Note the use of the multi-purpose tube for extra power and efficiency. There's a big advantage in the power and tone quality of the "Super-Six" you'll not find in ordinary six tube models even at higher prices.

Extra Value Features. The Knight 6 has full Automatic Volume Control to prevent fading and to keep volume uniform on all stations. The large Beam Power output is handled beautifully by the newest six-inch oval Dynamic Speaker that delivers about the best tone you've ever heard in a radio at this price. We're really proud about this quality of tone that will never fail to please you no matter what program you tune. Add to this fine tonal performance the extra entertainment of the 2-Band range, the easy-tuning Slide-Rule Dial, the convenience of the built-in Loop—and you can see for yourself that here's a radio value that can't be matched anywhere today at the price.

Advanced Styling. Here's the latest note in 1942 radio styling—the new Continental-type table model—with a streamlined beauty that's hard to beat. You've really got to see it to appreciate its beautiful design and finish. Top and front are of choice walnut veneers; sides are of selected, walnut-finished hardwood. The distinctive speaker grille treatment adds unusual grace and beauty to the design. The entire cabinet is hand-rubbed to a lustrous finish. Size: 13" wide, 69%" deep, 8½" high. Here's a table model cabinet you'll be proud to place anywhere in your home.

Knight 6 AC-DC Complete. The Knight 6 Tube AC-DC 2 Band Superhet comes complete with tubes in the table model cabinet illustrated and described above. For 105-125 volts, 40-60 cycles AC or DC. One of the outstanding radio values for 1942! Shpg. wt., 10 lbs.

Di-106. Value, \$29.95.

NET PRICE EACH, \$15.75.

YOUR PRICE, LOTS OF 3, EACH

49-581. 220 Volt Adapter for operating set from 220 volts AC or DC. NET 60c.



Enjoy Foreign recept tion on the **Knight 6** 2 Band Range, Hear World events direct!



Built-in Loop Aerial eliminates need for aerial or ground. Just plug in and play!



Thrill to superb tone quality, brilliantly reproduced on whatever program you tune!



Knight 5 TUBE AC-DC SUPER

You'd never guess that so little could buy so much—that this charming **Knight** 5 Tube (with rectifier) AC-DC Superhet can be yours for only \$11.95. For cabinet beauty, for easy tuning, for richness of tone, here is your perfect "companion" radio—and for value, for extra features, for built-in quality, here is 1942's outstanding buy! 1942's outstanding buy!

Plays Anywhere. You can operate the Knight 5 with the same efficiency from 110-120 volts, 40-60 cycles AC or DC, or (with adapter listed below) from 220 volts. New loop antenna—built right into the cabinet—adds to convenient portability. No trailing wires—no need to anchor your set to one spot. All you do is plus in anywhere and close! All you do is plug in anywhere and play!

Easy to Tune. You'll enjoy tuning the Knight 5. Reception range covers 550 to 1700 KC for all standard Broadcast programs and for Police calls. Handsome 6"x1½" full-view Slide-Rule dial, slanted for easy vision, has large, clear markings.

easy vision, has large, clear markings.

RCA and Hazeltine Licensed Superhet. A powerful circuit of modern design. Tubes used are: 12SA7GT as Osc.-Mod. (dual-purpose); 12SK7GT as I.F.; 12SQ7GT as Det.-AVC-1st Audio (triple-purpose); 50L6GT as Beam Power Output; 35Z5GT Rectifier. And all these extra features: full Automatic Volume Control for uniform volume; big Beam Power Output for better reproduction of all programs; full five-inch Electro-Dynamic speaker for crisp, clear tone—bringing you every program in a thrillingly lifelike way—for lasting enjoyment.

Modern Continental Styling. The latest in beautiful, practical cabinet design. Note the smooth-flowing lines, the new Continental-type styling with top-tuning Slide-Rule Dial and handsome speaker grille. Of rich walnut veneers on hardwood. Size: 11½" x 6½" x 6".

Knight 5 Complete with tubes, presented in table cabinet shown at left. For operation from 110-120 volts, 40-60 cycles AC or DC. Shpg. wt., 9 lbs.

D-102. Value, \$19.95. NET PRICE EACH, \$11.95. NET, LOTS OF 3, EACH

49-580, 220 Volt Adapter, 1 lb., NET., 60c



BIG SAVINGS ON AC-DC MODELS

Now!—a completely new note in compact radio styling! Here's a compact master-piece—a gleaming maple-finished cabinet housing a remarkable new **Knight** AC-DC Superhet that gives you splendid reception, convenient versatility, and rich, vibrant tone quality. This new 5-tube (with rectifier) receiver gives you more for your money in every way—in beauty, in performance, in quality. And it's way ahead with the latest features! You get all this at a price you can't beat anywhere today:

Built-in Loop Antenna. You can play

a price you can't beat anywhere today:

Built-in Loop Antenna. You can play
the Knight 5 just about anywhere. It has
an efficient, built-in loop aerial for perfect
reception—no more trailing antenna and
ground wires. And it operates with equal
efficiency from 105-125 volts, 40-60 cycles
AC, from 105-125 volts DC, and (with
adapter listed at right) from 220 volts.
Here's your perfect "companion" radio.
Take it, play it, enjoy it almost anywhere.

Always Easy to Tune. The big three-inch square Airplane dial is simplicity itself to tune. Range covers 538 to 1680 KC for all standard Broadcast programs and many Police calls. Dial is dual-calibrated in kilocycles and meters.

Powerful Superhet. An efficient RCA and Hazeltine licensed Superhet circuit incorporates the newest desirable features for more power and better tone. Employs latest tubes as follows: 12SA7GT as Osc.-Mod. (dual-purpose), 12SK7GT as I.F.; 12SQ7GT as Det.-AVC-1st Audio (triple-purpose); 50L6GT as Power Output; 35Z5GT Rectifier. You get better than conventional 5-tube performance from the multi-purpose tubes. And you get all these features, too: full Automatic Volume Control for uniform volume level; big Electro-Dynamic speaker for true-toned reproduction of every program; Beam Power Output for bigger volume without distortion. Powerful Superhet. An efficient RCA and for bigger volume without distortion.

New Maple Finish. Here's real beauty of a new, distinctive kind. The Knight 5 is presented in a beautiful cabinet of solid hardwood, finished in a gleaming maple color. Perfect for Early American settings, but built to harmonize with any interior. The ideal set for bedroom, den, breakfast room, or kitchen. Makes the perfect "extra" radio for your home. Measures: 10¾" wide, 6¾" high, 5¾" deep.

Knight 5 Complete. The Knight 5 Tube AC-DC Superhet is offered complete with tubes in maple-finished cabinet shown above. For 105-125 volts, 40-60 cycles AC or DC. Shpg. wt., 7 lbs.

D-103. Value, \$17.95. NET EACH, \$10.45.

LOTS OF 3, EACH..... 49-580. 220 Volt Adapter. Wt., 1



Knight 5 TUBE AC-DC SUPERHET

Our choice for one of 1942's supreme radio values . . . your choice for beautiful styling, powerful performance, thrilling tone . . . everybody's choice for a wonderful compact "companion" radio—that's the new Knight Super-Five, And this 5-tube (with rectifier) AC-DC Superhet is packed with features you'd never expect in a set priced so low. Here's the radio everyone will want to own. Check its features yourself:

Built-in Loop Antenna. The almost-magical built-in aerial that brings you dependable reception without annoying antenna and ground wires to trail on the floor. Just plug in and play—anywhere, anytime. There's nothing like it for convenience.

Plays Anywhere. Here's the handiest set you've seen. Plays with equal efficiency from 110-120 volts, 40-60 cycles AC, 110-120 volts DC, or (with adapter listed below) from 220 volts. You can move the Super-Five from room to room—play it anywhere.

Powerful Reception. The Knight Super-Five tunes 5.35-1720 KC for strong, dependable reception of all standard Broadcast programs and Police Calls. For extra tuning ease there's a big Slide-Rule dial, full 6¼" long, tilted to the right angle for easy vision. Dial is brilliantly illuminated and has large, clear calibrations for easy reading.

RCA Licensed. An ultra-efficient Superhet circuit—1942's finest—with radio's newest and best features. Uses latest tubes as follows: 12SA7 as Osc.-Mod. (dual-purpose); 12SK7 as I.F.; 12SQ7 as Det.-AVC-1st Audio (triple-purpose); 35L6GT as Power Output; 35Z5GT Rectifier. The use of two multi-purpose tubes gives you extra power, extra efficiency, comparable to many ordinary 6 and 7 tube radios.

Extra-Value Features. You get full Automatic Volume Control to maintain steady, unvarying volume on all programs; big Power Output for better reproduction; latest Dynamic speaker for richer, clearer tone; provision for attaching outside aerial.

Handsome Plastic Continental Cabinet. It's beautiful—it's practical! The rich plastic-molded cabinet will look right at home in any setting. The tuning dial is cleverly placed for better vision; the speaker has larger baffle area for better tone. And the smooth, neat lines, the rounded top, the unique speaker grille are splendid extra touches. Available in rich Walnut or warm Ivory. Measures: 10% wide, 7" high, 6% deep.

Superb Tone Quality. You'll enjoy every program you hear with the Knight Super-Five. Whether it's voice or music—a dramatic sketch or a popular orchestra—every note, every sound, is brought to you in a wonderfully life-like way. The Knight 5 has been built to give you the tone quality you'll like.

The Knight Super-Five is offered complete with tubes in the plastic-molded cabinet shown above—available in Ivory or Walnut. One of the finest AC-DC values of the season. For 110-120 volts, 40-60 cycles AC or DC. Shpg. wt., 8 lbs.

Walnut, NET EACH, \$10.75. LOTS OF 3, EACH...

\$10³⁵

Ivory. NET EACH, \$11.75. LOTS OF 3, EACH \$1135

49-580, 220 Volt Adapter for above, Wt., 1 lb. NET 60c



To thousands of wise radio buyers everywhere, ALLIED RADIO is the one single, dependable source of supply for everything in radio. Our constant aim to do business according to the highest standards of reliability—in quality, in service, in full value for your money—has made ALLIED famous throughout the nation as "Radio's Leading Supply House." You will find that ALLIED lives up to its reputation—that you can depend on ALLIED in every way.

Radio is and has always been the 100% interest of the entire ALLIED organization. Since our very earliest days we have special-ized in radio and radio alone. Thus we have built up a vast organization of special skills and interests in the radio field . . . with all our efforts directed to the single purpose of serv-ing you better. You can be confident—as we are—that all of your radio needs will always be better cared for when you depend on ALUED's expert staff of radio specialists.

Whatever your particular radio In-Whatever your particular radio Interests may be—Public Address, Amateur Radio, Radio Servicing, Experimenting or Set-Building, Radio Receivers, Industrial Radio Equipment—ALIIED, "Radio's Leading Supply House," is ready to serve you. Follow the lead of thousands of satisfied radio buyers—make ALIIED your First Choice—your dependable source of supply, too.



Row after row, shelf after shelf, the tremendous ALLIED stock-rooms are completely stocked with vast stores of the more than 15,000 quality radio items listed in this catalog. Our fresh, clean stocks—available in quantities, ready for immediate shipment—mean dependable service for you. You needn't warry about your source of supply. You always get what you want when you order from ALLIED.



The huge ALLIED inventories of radio equipment are never allowed to become depleted. Our alert staff of buyers see to it that our stocks are always complete. This means that whether in an emergency or on a routine order—whether your order is large or small—you can be sure that ALUED will deliver the goods. Furthermore, we are in constant touch with the leading radio manufacturers, and can supply all the newest products promptly.



ALLIED radio stocks are actually a roll-call of all the foremost brands in radio. Throughout this catalog in radio. Inroughout this catalog you will see the names and trademarks of the most respected, most reliable manufacturers of quality radio equipment. Here is further assurance for you of ALUED's complete dependability—assurance that you will always get the finest.



prices always assure you of fullest value for your money. You get more, save more, profit more on every purchase. You obtain the full benefits of our efficient way of doing business. You get extra savings because of our economical merchandising methods, our vast purchasing power, our lower overhead costs.



You will find dozens of outstanding radio Tou will find dozens of outstanding radio values on every page of this catalog. But you will also want to shop with especial care through pages 187-195—our Feature Value and Special Bargain section. Here you will see an extensive selection of all types of popular radio equipment, top-notch in quality, yet priced to give you truly remarkable savings.



Our high standards of quality mean that you can buy with complete confidence. We not only purchase our merchandise from the best manufacturers—but we also make our own exhaustive tests for per-formance and dependability. Our standards are your best protection.

YOU CAN DEPEND ON ALLIED FOR EVERYTHING IN RADIO

Through all the years, from the very first days of the radio industry, through thick and thin, ALLIED RADIO has always held fast to certain fundamental, time-tested ways of doing business . . . to these clear, basic principles:

FIRST—Our high standards of quality must never be relaxed. Everything you buy from us must satisfy you fully.

SECOND—Our low prices must always give you fullest value for your money—must enable you to get more, save more, profit more on every purchase.

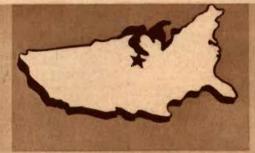
THIRD—Our stocks must always be complete, our service fast and reliable.

On these two pages, in picture and story, we have tried to show you what ALLIED's way of doing business means to you. We honestly believe that it will pay you to do all of your radio buying at ALLIED.

We shall continue to serve you to your complete satisfaction—to fill your orders completely, promptly, and at the lowest possible prices—so that now, as always, you can depend on ALLIED for Everything in Radio.



Our service lives up to its reputation for promptness and care. The most modern methods of safety-first packing are employed to assure the arrival in perfect condition of the equipment you order. On every shipment we save you time and trouble because we insist on speed plus accuracy. Here is further evidence of ALLIED's leadership. Here is still another way in which you benefit by making ALLIED your complete Radio Buying Headquarters.



Because we are located at the very heart of America's transportation system, we can give you much faster service. And because every department of our organization—stock, shipping, engineering, correspondence—is centralized in one great building—we can ship your whole order from one central location without delay. ALUED saves you time when time counts! Thus you'll find that it will pay you to consolidate your purchases—to do all of your radio buying from ALUED — America's Foremost Radio Supply House.



We use the most modern methods of transportation and communication—airplane, rail-road, truck transport, telegraph, telephone—all to serve you faster and better. Distance is no obstacle when you do your radio buying at ALUED. In every part of America—from coast to coast, from border to border—ALUED customers get full satisfaction from ALUED's fast service because they know that ALUED brings them what they want when they want it.



Write to us for authoritative advice and helpful suggestions on your radio buying problems. Our trained staff of intelligent, friendly correspondents answers all your inquiries promptly—in a helpful, personal way. You'll always like our personal service.



It's always easy to order from your ALLIED Catalog. For instant reference to any item in this catalog, see the complete easy-to-use index on pages 198-199. For complete, simplified How-to-Order information, including shipping suggestions, express and parcel post tables, etc., turn to page 197.

GUARANTEE

WE GUARANTEE 100% VALUE IN PRICE, QUALITY, AND SERVICE. Every item in our catalog is guaranteed to conform exactly to the description and illustration. We guarantee that our merchandise conforms to the standards of the Radio Manufacturers' Association and will perform in the manner intended for such apparatus. Whatever you buy from us must satisfy you in every way—or you may return it at once for exchange, repair, or refund, as you wish.

-ALLIED RADIO CORPORATION



Tunes 3 Bands



Built-in Aerial



With Tone Control



Knight 6 TUBE 3 BAND AC-DC

Here's our idea of the kind of radio value you've always wanted—the lowest-priced Six Tube (with rectifier) 3-Band Radio of this or any other season! Here are "expensive set" features, too! Spread-band tuning for better all-wave coverage! Noise-reducing RF circuit! New cabinet beauty, too—and it's all yours at a price that's gentle on your budget!

Foreign Programs Direct are a big thrill with this Knight 6 Superhet. Tunes 540 to 1650 KC for all standard Broadcasts; covers 5.25 to 10.25 MC and 11.5 to 16 MC for Foreign Short Wave, police, amateur, and aviation signals. The wonderful new spread-band feature s-p-r-e-a-d-s stations farther apart for easier Short-Wave tuning.

Plays Anywhere—works from 110-120 volts, 40-60 cycles AC, or from 110-120 volts DC. Includes built-in high-gain loop aerial. Just plug in and play perfectly! (Also has outside aerial connection for Short-Wave and long-distance reception.)

1942 Superhet Circuit is RCA and Hazeltine licensed. Uses the following tubes: 6SA7, 2-6SK7, 6SQ7, 25L6, 25Z6 Rect. New noise-reducing RF circuit increases sensitivity, reduces background noise. Automatic Volume Control keeps volume uniform on all programs and prevents fading.

Lifelike Tone is the feature that will impress you most in the Knight 6. The unusual power of the Beam Power output stage is beautifully handled by a special 5½-inch full-toned Electro-Dynamic Speaker. Variable Tone Control is provided, so that you yourself may emphasize bass or treble exactly as you prefer.

1942 Styling is reflected in the beautiful cabinet of the Knight 6. It is fashioned of selected walnut veneers, hand-rubbed to a lustrous finish. The lattice treatment of the speaker grille is an effective new style note. Size: 19½" long, 10½" high, 10" deep. Complete with tubes. For 110-120 volts AC, 40-60 cycles, or 110-120 volts DC. Shpg. wt., 17 lbs.

D-109. Value, \$38.95.

NET PRICE EACH, \$21.95 NET PRICE, LOTS OF 3, EACH.

\$2095

49-581, 220 Volt Adapter. NET60c





Knight 7 TUBE 2 BAND AC-DC

You've seldom seen such beauty, so many fine new features, such value as you get in this Two Band Knight 7 (with rectifier). Know all the thrills of Foreign reception, the convenience of AC-DC versatility and Automatic Tuning, the enjoyment of golden tone—everything you want in a radio—at an amazingly low price!

Foreign Reception. The Knight 7 tunes 8.9 to 12.1 MC to bring you all the important Foreign Short Wave programs. Covers 540 to 1720 KC for powerful coverage of all American and Canadian standard Broadcast stations.

Plays Anywhere. Plays with equal efficiency from 105-125 volts, 50-60 cycles AC, or 105-125 volts DC. Has built-in loop aerial—all you do is just plug in and play. (Also has outside aerial connection.)

Tune Favorite Stations just by pressing a button. Fast and accurate every time. For regular tuning, the 8-inch top-tuning "Eye-line" Slidé-Rule Dial makes it easy to log your programs on either band.

Power Plus! Up-to-the-minute tube types are used in the RCA and Hazeltine licensed circuit as follows: 6SA7 Osc.-Conv. (dual-purpose); 6SK7 IF; 6SQ7 Det.-AVC (dual-purpose); 6SQ7 1st Audio; 2-25L6GT as Push-Pull Output; 25Z6GT as Rect, AVC keeps volume uniform; prevents fading.

Glorious Tone with rich depth and glowing reality is assured on every program you tune. The Knight 7 insures this tonal achievement by coupling the big push-pull power output of the circuit with a 6-inch oval-shaped Electro-Dynamic Speaker of new design, noted for its fidelity of re-

production. Variable Tone Control is also provided to let you select any degree of treble or bass emphasis you may desire.

Handsome is the word for the 1942 table model cabinet of the Knight 7. Note the new continental-type style now all the vogue in radio. See the rich walnut veneer woods used throughout. Check the fine proportions; size: 16" long, 103%" high, 7" deep. The Knight 7 is offered complete with tubes, for operation from 105-125 volts AC, 50-60 cycles, or 105-125 volts DC. Shpg. wt., 17 lbs.

D-110. Value, \$38.95. NET EACH, \$21.95. NET, LOTS OF 3, EACH.....

\$2095

49-581, 220 Volt Adapter . . . NET 60c



Knight 6 TUBE 2 BAND AC-DC SUPERHET

Compare the performance—compare the appearance—compare the price—and we know you'll agree the "Headliner" offers you more for your money than any other radio in its class! Here's dependable Foreign reception! Here's versatile operation from AC or DC with six tubes that work like seven! Here's the kind of plastic beauty that will grace any room in your home! It's no wonder, then, that we've named this **Knight 6** (with rectifier) our "Headliner" Value for 1942!

Foreign Reception! A true Two-Band Radio at the price you'd generally pay for just a one-band set. You get not only full coverage of American and Canadian standard Broadcasts on 535 to 1660 KC, but thrilling reception of news and entertainment direct from abroad! The Foreign Band covers 5.7 to 18.3 MC (right down to 16.5 meters)! And it's easy to tune either band with the big, fully-illuminated Airplane vernier dial that's clearly calibrated.

High-Efficiency Loop Aerial is built right into the "Headliner" for up-to-theminute convenience. No more aerial or ground troubles. You just plug in and play! There's connection provision also for outside aerial when you tune Short Wave or long-distance domestic stations.

Plays Anywhere! The "Headliner" works with equal efficiency from 110-120 volts, 40-60 cycles AC or 110-120 volts DC (can also be used from 220 volts with adapter listed below). Connect it anywhere; play it anywhere. You won't want to be without this thrilling radio companion once you hear it!

Superhet Power—the kind you get only from the finest RCA and Hazeltine licensed circuit—is yours in the "Headliner." You get exceptional sensitivity and full 2 watts output from six full-working tubes (including rectifier) used as follows: 12SA7GT as Converter; 12SK7GT as IF; 12SQ7GT as Det.-AVC (dual-purpose); 12SQ7GT as 1st Audio; 35L6GT as Output; 35Z5 as Rect.

And for "Extras" the "Headliner" has Automatic Volume Control to keep the volume uniform on all programs; a 5½-inch full-response Electro-Dynamic Speaker delivers natural, lifelike tone that compares with costlier models; Beam Power Output for remarkable reserve power, far in excess of what you will normally use; smooth Wave-Band Switch for changing from Foreign to domestic band; 5 Tuned Circuits for increased sensitivity.

A Style Sensation—that's the best way to describe the "Headliner." It will add charm to the finest room. Has a streamlined plastic-molded design, with simple classic lines and attractive recessed speaker grille. Available in a choice of soft Ivory or gleaming Walnut. Size: 10¾" long, 7¾" high, 5½" deep. Comes complete with tubes, exactly as described above. For 110-120 volts, 40-60 cycles AC or 110-120 Volts DC. Shpg. wt., 8 lbs.

D-107. Walnut. Value, \$21.50.

NET EACH, \$11.95.

YOUR PRICE, LOTS OF 3, EACH \$1135 D-108. Ivory. Value, \$23.50.

NET EACH, \$12.85.

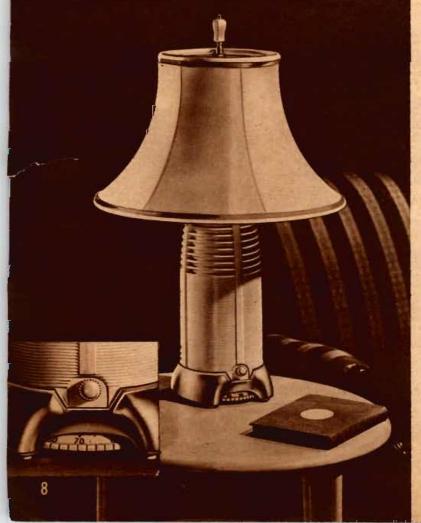
YOUR PRICE, LOTS OF 3, EACH......

49-581. 220 Volt Adapter for above sets. NET..................................60c





HOVEL NEW RADIO-LAMPS



Knight RADIO-BED LAMP

Say good-bye to sheep-counting at night! Let this clever Knight Bed Lamp-Radio lull you to sleep with soft slumber music—and wake you up in the morning with a brisk musical salute to start the day right. Combined with this unique personal radio is a built-in bed lamp, scientifically designed to be kind to your eyes. What's more, ingenious cabinet design lets you use this new instrument as a regular table model set, too—with the dial in proper position for easy tuning. Here's the latest radio sensation for everyone—and a boon companion for stay-abeds.

Enjoyable Reception. You can tune the entire Broadcast Band from 540 to 1680 KC for complete coverage of your favorite stations. The five-tube (with rectifier) Superhet radio operates with equal efficiency from 110-120 volts, 40-60 cycles, AC or DC. Just plug into any outlet.

Latest Features Built-In. There's a built-in Loop Antenna—no more fuss with trailing aerial or ground wires. There's a full-sized five-inch Dynamic speaker to give you wonderful tone quality on every program. There's a big 3" x 2" Airplane dial illuminated for easy tuning. And for real reading ease and comfort there's a built-in bed lamp of the latest high-power tubular type with plastic diffusing lens. You couldn't ask for greater luxury!

A Table Model Radio, Too! The handsome one-piece molded plastic cabinet is a marvel of modern design. For headboard use it has two handy non-marring, rubber-covered hooks. Dial is at bottom of cabinet, easily accessible while you lie at rest. For table use, simply turn the cabinet on its side, and all controls are on front face, equally easy to tune. You can shift the set to either position in an instant. Cabinet is offered in a choice of deep-toned walnut or rich ivory. Size: 9½" wide, 5½" deep, 7½" high.

Superhet Circuit. The powerful RCA licensed Superhet circuit uses latest tube types: 12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT. Full Automatic Volume Control prevents fading or blasting. Beam Power Output gives you sufficient power for all programs.

Knight Bed Lamp Radio Complete with tubes and bed lamp bulb, in cabinet at left above. For 110-120 volts, 40-60 cycles AC or DC. Shpg. wt., 8 lbs.

\$1220

Knight RADIO-LAMP

Here's a practical, brand-new innovation that delights everyone—that's made a big hit everywhere! Here, in a wonderful combination of beautiful styling that will add rich charm to any room—is a modern **Table Lamp** that makes reading easier, more pleasant—**plus** a superbly-toned powerful Radio Receiver—all in one strikingly-beautiful, streamlined compact unit! And the cost is scarcely more than you'd pay for a quality Table Lamp alone!

The Luxury Lamp. Designed for better light, for better sight. Beautifully styled to grace the finest home interiors. The base is molded of beautiful cream-color bakelite in smooth rhythmic lines, set off by a rich, gold-colored base trim. The lamp shade, with its graceful contour, is of rich cream-color rayon. Shade diameter is 16 inches. Overall lamp height is 21%"; base, 5½" diameter. Lamp with 6-inch reflector bowl has a three-way switch offering selective lighting of 50, 100 or 150 watts.

The Superhet Radio. There's luxuriously convenient radio entertainment waiting for you in the precision-built 5-Tube Radio (including rectifier) incorporated in the novel Knight Lamp—Radio Combination. You can read your book or newspaper under the scientifically correct light and enjoy your favorite programs at the same time. You'll be amazed at the splendid power and tonal fidelity.

Works Anywhere. Both Lamp and Radio operate on 110-220 volts AC (40-60 cycles) or on DC current. That means you can plug in anywhere and enjoy fine light and perfect radio reception. You'll like the efficient Loop aerial that's built right into the receiver—it does away with aerial and ground; all you have to do is plug in and play.

Powerful Superhet Circuit. You get full band coverage of all standard American and Canadian Broadcast plus Police Calls, from 535 to 1720 KC. The cleverly-engineered RCA licensed circuit uses the following tubes: 12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT—each a full-working tube. Other features include: Automatic Volume Control to keep volume uniform on all programs; latest Dynamic Speaker with adequate baffle for clear, faithful tone quality; easy-to-tune rotor dial built into lamp base.

Radio-Lamp Complete. We offer this sensational Knight Radio-Lamp Combination complete with tubes, as illustrated and described. For 110-120 volts, 40-60 cycles AC or DC. (Sold less light bulb.) Shpg. wt., 12 lbs.

D-120, NET PRICE EACH, \$17.52. NET, LOTS OF 3, EACH.....

\$1617



Knight 8-TUBE 3 BAND AC-DC SUPERHET

Let this new **Knight** All-Wave Superhet demonstrate to you what modern radio at its best can be! For here is a deluxe instrument, especially designed to incorporate the newest and best features for wonderful distance-reach, rich and faithful tone quality, and splendid world-wide reception. Try it yourself on our liberal Trial and Money-Back Guarantee offer (see page 11)—we know you'll agree with every claim we make for it.

Foreign Reception. Hear the news first-hand by overseas Short Wave! Never has the news been so important! And you'll thrill to the way in which the **Knight** 8 Tube (with rectifiers) AC-DC Superhet brings you the world's programs. Tunes three full wave-bands covering all major radio channels: 2.25 to 7.2 MC and 7.5 to 24 MC for Short Wave reception of foreign and domestic programs, Amateur, Aviation, and Police signals; and 535 to 1650 KC for powerful reception of American and Canadian standard Broadcast programs. The big 63/4" long Slide-Rule dial is clearly calibrated and exceptionally easy to read and tune.

RF on All Wave Bands. A feature of the finest radio receivers—tuned RF on all wave bands adds substantially to tuning range and distance reach. Increases sensitivity tremendously—brings in stations with remarkable freedom from noise and distortion.

AC or DC Operation. The Knight 8 operates with equal efficiency from 110-120 volts, 40-60 cycles AC, 110-120 volts DC, or (with adapter listed below) from 220 volts.

New Rotatable Loop Aerial—built right in. Convenient knob on instrument panel permits you to rotate antenna loop to proper position for best sensitivity on Broadcast band. Receiver also has provision for outside aerial for stronger Short Wave reception.

Outstanding Superhet Design. Licensed by RCA and Hazeltine. Uses following ultraefficient tubes. 6SK7GT as R.F.; 6SK7GT as I.F.; 6SA7GT (dual-purpose) as Osc.-Mod.;
6J5 as AVC; 6SQ7GT as Det.-1st Audio (dual-purpose); 25L6GT as Power Output; 2—
25Z6GT Rectifiers. Multi-purpose tubes mean extra power and efficiency.

Extra-Value Features. Here's positive proof of what we mean by "more for your money." There's a rugged 3-gang tuning condenser for greater stability of operation and finer selectivity. Full Automatic Volume Control maintains steady volume level. There's connection for Television, Frequency Modulation or record player unit,

More Features For Better Tone. A full 8-inch Electro-Dynamic speaker reproduces every sound with the rich tonal depth characteristic of the better radios. Bass Compensation and Bass Booster build up the bass response to provide perfect tonal balance, And variable Tone Control lets you select bass or treble emphasis as you desire.

Beautiful Table Cabinet. Here's wonderful "eye-appeal"—a full-sized table cabinet of select walnut veneers on hardwood. Note the richness of detail—the handsome speaker grille, the smooth contrasting grain effect. Size: 22½" wide, 11¼" high, 10½" deep.

Set Complete. Supplied complete with tubes in the table cabinet shown above. For 110-120 volts, 40-60 cycles, AC or DC. Shpg. wt., 28 lbs.

D-111. Value, \$67.50.

NET PRICE EACH, \$33.85.
NET PRICE, LOTS OF 3, EACH......

49-581. 220 Volt Adapter for above. Wt., 1 lb. NET 60c

\$3195

JUST CHECK THESE 1942 FEATURES!

Foreign Reception. Keep up with the news as it happens! Hear it first—and hear it direct. TRF on all bands means better radio reception for you.

Rotatable Loop Aerial. Built right in. Just plug set into nearest outlet and play at once. Rotating feature provides for greater sensitivity and better signal pickup.

Superior Tone.
Bass Compensation and Bass
Boost for correct
tonal response.
Personal Tone
Control, too. And
a big Electro-Dynamic Speaker!



Knight is the Radio for Your Money!



PROVE IT YOURSELF WITH OUR 15 DAY TRIAL AND MONEY-BACK GUARANTEE

When you buy your new 1942 radio, you want to be sure that you are getting the most for your money . . . the most in performance, beauty, features . . . the most in value. * That is why we ask you to make this simple test: * Check the features of any 1942 KNIGHT RADIO. * Check its tuning range, tube complement, speaker size, power-output, appearance. * Check its price against any other set in the same class. * We know you'll find more quality, more honest value in KNIGHT every time. We know you'll decide on KNIGHT. * Our fifteen-day trial will prove to you that KNIGHT RADIOS satisfy . . . that on every count KNIGHT gives you most for your money. * Order your own 1942 KNIGHT now for complete and lasting radio enjoyment. See it! Hear it! Try it yourself! YOU be the judge.



Painstaking craftsmanship . . . richness of detail . . . harmony of design . . . all this contributes to the distinguished styling of every new 1942 KNIGHT Radio.



KNIGHT Radios possess a wonderful richness of tone quality that will be a source of deep and lasting pleasure to every KNIGHT owner. You get the most for your money in tone quality in KNIGHT Radios.



KNIGHT Radios have all the newest features for finest efficiency... for recreating broadcast studio performance. You get more for your money in KNIGHT.

(Note: You save, no matter whether you buy one KNIGHT Radio at the single-set price or three at our special lots-of-three prices. The lots-of-three price applies on orders made at any one time, for any three sets—whether of the same model or assorted—to bring you bigger savings.)

15 DAY TRIAL AND MONEY-BACK GUARANTEE

Order any KNIGHT RADIO on our regular terms. Try It out under your own operating conditions. Check it in all ways. And then, if within 15 days—for any reason—you are not fully satisfied with your choice, you may return the set to us, and we will promptly refund your full purchase price, less transportation charges. This powerful Guarantee is further supplemented by the regular Radio Manufacturers' Association Guarantee against defect in materials and workmanship.

ALLIED RADIO CORPORATION





reign Reception keep with these stirring times get your news direct from road—with the powerful and Knight 71





olden tone! You'll glory olden tone! You'll like Personal Tone Control gives you the tone em-ls you desire.

Knight 7 TUBE 2 BAND AC SUPERHET

- Foreign Reception

- 6" Dynamic Speaker With RF Stage Phono, F-M Connect 3½ Watts Output Slide-Rule Dial Ready for Television · Phono, F-M Connection
- With Tone Control 31/2 Watts Output

We've looked everywhere, and we can't find another 7 Tube Radio that offers you so much quality, so many features, such all-around value! Just name your 1942 radio wish, and here it is—rich concert-hall tone, beautiful styling, and wonderful operating features—plus Foreign reception—all at a price you've never believed possible! We want you to be the judge—try this **Knight 7** (including rectifier) on our 15 Day Trial and Money-Back Guarantee (see page 11). You'll agree it's a "Best Buy"!

Foreign Reception direct, with thrilling power and clarity, is yours with the Knight 7. It's the kind of radio you want to own in these stirring times! Two full tuning bands give you coverage of all important channels. The giant 6"x4" Slide-Rule Dial is easy to tune, covering the following ranges: 4.8 to 18.3 MC for all important overseas programs and general Foreign and domestic Short Wave; 535-1650 KC for regular Broadcast reception of all American and Canadian stations from coast-to-coast.

RF on Both Bands. An exclusive deluxe feature found only in radios selling at much higher prices. Gives you greatly increased sensitivity and a real power wallop. Reaches out farther—brings in more stations—and at the same time cuts out interfering noises. Makes possible consistently dependable reception on both bands. It's a feature you'll applaud.

High-Gain Loop Aerial is built right into the Knight 7. You don't need to connect aerial or ground for strong regular broadcast reception. Just plug in and play! You'll like this perfected 1942 convenience feature. (There's also provision for connecting outside aerial when you want better Short-Wave results or longer-distance reception.)

RCA and Hazeltine Licensed Superhet circuit—the finest used in any 1942 7-Tube radio—incorporates the following efficient tube types: 6SK7 as RF; 6SA7 as Osc.-Mod. (dual-purpose); 6SK7 as IF; 6SQ7 as Det.-1st Audio (dual-purpose); 6SQ7 as AVC; 6V6GT as Output; 80 as Rect. Multi-purpose tubes add the equivalent of nine tube power and efficiency. Automatic Volume Control keeps volume uniform on all programs; prevents fading. Has provision for connecting Television or Frequency Modulation adapters; same connection may be used for attaching a Record Player.

You'll Thrill to the tone quality of this Knight 7. The circuit develops an undistorted output of 3 full watts, which is flawlessly reproduced by the 6-inch Electro-Dynamic Speaker. There's a real listening treat in store for you. You'll be amazed at the way this Knight 7 makes each program sound just like the original—full, rich, true-to-life. And don't forget the Personal Tone Control that lets you choose the bass or treble emphasis you want.

You'll Like the distinctive, rich lines of the Knight 7 table model cabinet. You'll like its beautifullymatched walnut veneer woods, its charming lattice treatment of the speaker grille, and its lustrous hand-rubbed finish. You'll like its fine proportions, too; size: 19½" long, 10½" high, 10" deep.

Knight 7 Table Model Complete. The Knight 7 Tube 2 Band AC is offered as described, complete with tubes in the beautiful new table model cabinet illustrated. For 105-130 volts, 50-60 cycles, AC. Shpg. wt., 24 lbs.

D-125. Value, \$44.50.

NET PRICE EACH, \$23.95. NET PRICE, LOTS OF 3, EACH.....





Knight 7 TUBE AUTOMATIC PHONO-RADIO

We present the Knight 7 in a magnificent new Automatic Phonograph-Radio Combination that is your key to a whole world of pleasure from radio or records—at an amazingly low price! Automatic Record Changer: Enjoy forty minutes of continuous record entertainment without leaving your favorite chair! Changer plays up to twelve 10-inch or ten 12-inch records at a single loading. Features gentle-action; includes new featherweight Crystal pickup with lifetime needle. Powerful 2 Band Radio—has all the features described on page 12: 2 Band Range; RF Stage; Loop Aerial; 3 Watts Output; Tone Control; Television—FM provision, etc. Incorporates a heavy-duty 10-inch Concert Dynamic Speaker for flawless reproduction of both radio and records. Handsome Modern Console—gracefully proportioned, beautifully finished; has hinged lid; size: 32" high, 26½" wide, 15" deep. Complete with tubes and lifetime needle. For 105-130 volts, 60 cycles AC. Shpg. wt., 62 lbs.

D-185. Value, \$89.50.

NET EACH, \$47.50. LOTS OF 3, EACH. We present the Knight 7 in a magnificent new Automatic Phonograph-

WITH RECORDER. Same as above but with additional mechanism built-in for making your own quality home recordings. Includes Radio, Record Changer-Recorder mechanism; Shure Crystal microphone and stand; steel record-cutting needle and six-6½" recording blanks. Shpg. wt., 78 lbs.

D-186. Value, \$129.50.

NET EACH, \$69.50. LOTS OF 3, EACH

Knight 7 TUBE CHAIRSIDE MODEL

Here is the last word in radio comfort, beauty and convenience—the Knight 7 in a luxurious new Chair-side Model. Placed next to easy chair or sofa, this new model makes the ideal radio for sheer comfort, convenience and beauty. It is magnificently styled and flawlessly built. All surfaces are of select walnut veneers, richly finished in a high-lustre. Speaker grille is simply but beautifully designed, with proper baffle area for best acoustical results. The Chairside cabinet measures. 16" wide. 24" high, 22" deep. The Knight 7 2 Band AC chassis housed in the Chairside Model has all of the fine features described on page 12, but includes special 10" Dynamic Speaker. Has 2 Band Range, Built-in Loop Aerial; RF on Both Bands; 3 Watts Output; Tone Control, AVC, F-M and Television Connection. Slide-Rule Dial, etc. A high-quality 1942 model that combines real convenience and the last word in radio luxury with the best radio performance you could ask for, at a surprisingly low price that will please you. The Knight 7 Tube 2 Band Chairside Radio is offered complete, as illustrated and described above. For operation from 105-130 volts, 60 cycles AC, Shpg. wt., 40 lbs. A rare value in a remarkably efficient and convenient 1942 radio receiver.

D-180. Value, \$57.50.

D-180. Value, \$57.50. NET PRICE EACH, \$29.95. YOUR NET PRICE, LOTS OF 3, EACH..... \$2845

Knight FM RADIO ADAPTER

Permits you to receive Frequency Modulation (FM) programs, when used with an amplifier or with the audio system and speaker of your present radio set. Recomended for use only with a good quality receiver and speaker. Tunes 41.2 to 50.4 MC to cover the FM band. Brings you radio's newest miracle—static-free, high-fidelity radio reception. Tuning is accomplished by means of a large Slide-Rule Dial, aided by an Electric Tuning Eye for absolute accuracy. The FM Adapter uses eight new type tubes (including rectifier and tuning eye); has 3-gang tuning condenser and sensitive RF stage. Adapter is easy to connect; plugs right into the phono connection of your present receiver. FM programs are reproduced through the audio system and speaker of your radio. Comes complete in attractive walnut veneer cabinet; size; 12¾ long, 7¼ high, 6¾ deep. For 110-120 volts, 40-60 cycles AC. Complete with tubes, Shpg. wt., 12 lbs.

D-136. YOUR NET PRICE....

(Note: To receive FM, there must be a Frequency Modulation radio broadcasting station within 35 miles of you.)





Knight 8 TUBE 2 BAND AC SUPERHET

- Push-Button Tuning Phono, FM Connection Tone Control 8" Dynamic Speak RF On Both Bands Ready For Television Full-Acting AVC 3½ Watts Output

- · RF On Both Bands

Here's a value-giving 8 Tube Radio (with rectifier and Electric Eye) you can't equal anywhere at the price! On every count, this **Knight 8** scores with the latest features—Foreign Reception—Automatic Tuning—Built-in Loop—beautiful tone, big power, and splendid appearance. It's your 8 Tube "Buy" for 1942—a value you won't duplicate anywhere at our low price!

Foreign Reception Direct gives you never-ending listening thrills. The Knight 8 tunes 4.8 to 18.5 MC to bring you overseas Short Wave. Covers 535 to 1700 KC for regular Broadcast reception of all American and Canadian stations from coast-to-coast. You get all the extra enjoyment of full two band radio reception at no more than the price you'd pay elsewhere for an ordinary one-band receiver.

Push-Button Tuning. Tune any six of your favorite stations automatically just by touching a button. It's delightfully easy—brings your station in right on the head each time! Manual tuning is easy, too, with the big 6"x4" Airplane Dial. The Electric Eye helps tune in stations perfectly; when dark sector of eye is narrowest you know your program is tuned in with precision for maximum enjoyment.

Built-in Loop Aerial. Forget about aerial and ground wires with the high-gain built-in loop aerial. Just place the set where you want it; plug in and play! There's nothing like it for wonderful convenience. (Also has outside aerial provision for S-W and long-distance tuning.)

1942 Superhet Circuit. Fully licensed by the famous RCA and Hazeltine laboratories, the Knight 8 uses these newest tubes: 6SK7 as RF; 6SA7 as Osc.-Mod. (dual-purpose); 6SK7 as IF; 6SQ7 as Det.-1st Audio (dual-purpose); 6J5 as AVC; 6V6GT as Output; 80 as Rect.; 6U5 as Electric Eye.

All These "Plus" Features. Ready for Television and Frequency Modulation when they come—has plug-in provision for Television and F-M adapters; same connection may be used for attaching Record Player. RF Stage on both bands multiplies sensitivity amazingly—increases distance-reach, reduces noise. (It's the kind of feature you'll find only in the very finest modern receivers.) Incorporates full-acting Automatic Volume Control to prevent fading and to keep volume uniform on all programs.

Glorious Tone Quality. Because the power output is better than 3 watts undistorted (more than you'll get in most eight tube sets) and because a splendid new type of 8-inch Electro-Dynamic Speaker is employed, tonal reproduction is superbly realistic and full-bodied. You'll never grow tired of Knight 8 tonal performance. And you'll like the personal Tone Control that gives you regulation from deepest bass to highest treble in accordance with your desires.

1942 Table Model. The choicest of walnut veneers have been selected for this beautiful table model cabinet. The design reflects an unusual beauty achieved by graceful proportions and enhanced by contrasting graining and the simple but attractive grille. The cabinet is hand-rubbed to a rich, lustrous piano finish and is designed to enhance any room in your home. Size: 21" long, 10" deep, 1034" high.

Knight 8 Table Model Complete. The Knight 8 is offered as described above, complete with tubes, in beautiful table model cabinet. For 110-120 volts, 60 cycles, AC. Shpg. wt., 26 lbs.

D-126. Value, \$52.50.

NET PRICE, EACH, \$27.85. NET PRICE, LOTS OF 3, EACH.....



With Personal Tone Control



Built-in High Gain Loop Aerial



Enjoy The Thrill Of Powerful Foreign Reception





The Knight 9 is offered as described above, complete with tubes in beautiful table model cabinet. For 110-120 volts, 50-60 cycles AC. Shpg. wt., 32 lbs.

D-127. Value, \$69.95.

NET PRICE EACH, \$33.85.
NET PRICE, LOTS OF 3, EACH.....

\$3195



9 TUBE CONSOLE AUTOMATIC PHONO-RADIO

Here's the last word in Deluxe Complete Home Entertainment, yet the price is modest for the quality you get. Enjoy radio or records beautifully reproduced with all the living reality of the broadcast and recording studio. Enjoy the luxury of the newest Automatic Record Changer that gives you more than fifty minutes of uninterrupted playing (takes fourteen 10" or ten 12" records at a single loading); features gentle-action and the new featherweight Crystal pickup with lifetime needle. 9 Tube Radio is same as described on page 16—has 3 Band Range, Push-Button Tuning, Built-in Aerial, Tone Control, 6 Watts Output, and special 12-inch Concert Dynamic Speaker. The gorgeous walnut console is splendidly proportioned and beautifully finished. Has hinged lid. Size: 36" high, 17" deep, 31" wide. The Knight 9 Console Phono-Radio comes complete as described, with Radio, Record Changer, tubes and lifetime needle. For operation from 110 volts, 60 cycles AC. Shpg. wt., 89 lbs.

D-189. Value, \$139.50. NET EACH, \$74.50. NET, LOTS OF 3, EACH ...

WITH RECORDER. Same as above, but has additional mechanism built in for making your own home recordings. Includes Radio, Record-Changer-Recorder mechanism; Shure Crystal microphone and stand; steel record-cutting needle and six 6½-inch recording blanks. For 110 volts, 60 cycles AC. Shpg.wt., 94 lbs.

D-190. Value, \$174.50. NET EACH, \$94.50. LOTS OF 3, EACH

9 TUBE CHAIRSIDE PHONO-RADIO

We're proud of this outstanding value in a luxurious new Chairside Model that combines the Deluxe 1942 Knight 9 Tube Radio with the latest type Automatic Record Changer Phonograph Both radio and phonograph controls are easily accessible on the top surface of the handsome chairside cabinet which measures just 25½" high, 17½" wide and 27" deep. Fashioned of choice walnut veneers, it has a built-in shelf for storing your record albums, and an attractive speaker grille opening. The Automatic Record Changer is of the new gentle-action type; has feather-weight Crystal pickup with lifetime needle, Plays fourteen 10" or ten 12" records at a single loading for more than fifty minutes of uninterrupted entertainment. 9 Tube Radio has all of the fine features described on page 16—3 Band Range, Push-Button Tuning, Built-in Aerial, 6 Watts Output, 8" Dynamic Speaker, etc. Here you have the luxurious convenience of chairside design with the finest achievements in modestly-priced radio and automatic phonograph performance. The Knight Chairside Phono-Radio comes complete with 9 Tube Radio, Automatic Changer and lifetime needle, as illustrated. For 110-120 volts, 60 cycles AC. Shpg. wt., 73 lbs.

D-191. Value, \$117.50.

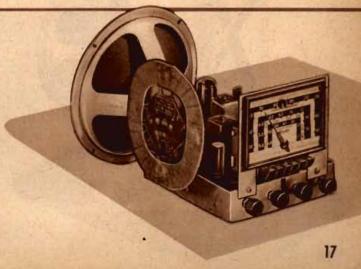
D-191. Value, \$117.50. NET EACH, \$62.50. NET, LOTS OF 3, EACH

Knight 9 TUBE RADIO CHASSIS

The Knight 9 Tube 3 Band Radio is also available in chassis form only, as illustrated at right. Makes a wonderful 1942 replacement for obsolete radios. Has all of the remarkable features described on page 16: World-wide 3-Band Reception; bullt-in Loop Aerial; Push-Button Tuning; Television, Phono and F-M Connection; Tone Control; AVC; 6 Watts Push-Pull Output; Airplane Dial, Electric Eye, RF Stage, etc. Size: 8½" wide x 9" deep x 8" high. Comes complete with tubes, special heavy-duty 12-inch Dynamic Speaker, escutcheon and knobs. A remarkable value in a fine replacement chassis—your opportunity to own a superb 1942 radio at an unusually low price! Ideal for installation in custom-built cabinets and furniture, or for cabinets now housing an obsolete radio. Includes instructions and everything necessary for easy, proper installation. For operation from 110-120 volts, 50-60 cycles, A.C. Shpg. wt., 25 lbs.

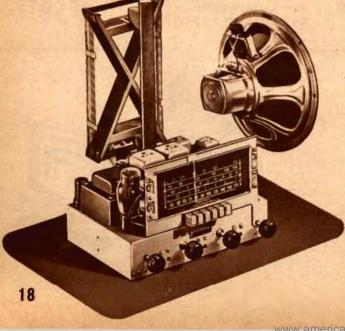
D-149. Value, \$47.50.

D-149. Value, \$47.50. NET PRICE, EACH, \$25.75. NET PRICE, LOTS OF 3, EACH



Knight's FINEST CONSOLE MODEL RADIO...





Knight 12 TUBE 5 BAND CHASSIS

To meet the widespread demand for a custom-type replacement radio chassis, the Knight 12 is also made available in deluxe chassis form, with matching Concert-Dynamic Speaker, as illustrated at left. Makes an ideal radio replacement for an obsolete receiver in a fine cabinet that you are reluctant to discard. Interior decorators and architects will find the Knight 12 chassis well-suited to custom-installation requirements, and easy to install in concealed locations, in custom furniture, etc.

Custom Quality. The Knight 12 chassis has all of the remarkable features described on page 19: 5-Band Reception; S-p-r-e-a-d Band Tuning; Loop Aerial; Push-Button Tuning; Giant Slide-Rule Dial; RF on all Bands; 10 Watts undistorted Output; Automatic Volume Expansion; Bass Compensation; Tone Control; Automatic Volume Control; 3 Gang Condenser; Television, FM. Phono Connection; 12-inch Concert Electro-Dynamic Speaker, etc. The chassis is ruggedly constructed, reflecting superb craftsmanship in every radio and mechanical detail; measures 12%" long, 8½" deep, 8½" high.

Chassis Complete. The Knight 12 Tube 5 Band Chassis is supplied complete with tubes, 12-inch Dynamic Speaker, built-in loop aerial, dial, escutcheons, push-buttons, and knobs. For 110-120 volts, 50-60 cycles AC, Shpg. wt., 32 lbs.

D-150. Value, \$74.50.
NET PRICE EACH, \$39.95.
NET PRICE, LOTS OF 3, EACH.

\$3795

BEAUTIFUL... SUPER-POWERFUL...

Knight 12 TUBE 5-BAND AC SUPERHET

- World-Wide Range
 Bullt-in Loop Aerial
 Volume Expander
 Bass Compensation

- Push-Button Tuning
 RF On All Bands
 With Tone Control
 Big Slide-Rule Dial
- Ready for Television, FM
- 12" Dynamic Speaker
 Giant 10 Watts Output
 Spread-Band Tuning

Here is our finest **Knight** Radio for 1942! By any standard of quality, by any measurement of value, this **Knight 12** (with rectifier) is radio at its deluxe best—priced to give you the most for your money. Here's cabinet beauty in the custom class! Here's the super-power and coverage to bring you the programs of all the world! Here's unsurpassed magnificence of tone! And here's every worthwhile and important feature for 1942!

Tune All the World! Five full tuning bands give you complete coverage of all the world's important radio stations. Covers the following ranges: (1) Regular American and Canadian Broadcast band, 540-1712 KC; (2) domestic Short-Wave, Police, Amateur, Ships and Airplane band, 3.0-9.0 MC; (3) general Short-Wave coverage, 8.5-23.5 MC; (4) S-p-r-e-a-d band for night-time European and South American reception, 9.4-9.8 MC; (5) S-p-r-e-a-d band for afternoon European and South American reception, 11.0-12 MC.

S-p-r-e-a-d Band Tuning. A wonderful tuning feature that provides twenty times more space between dial calibrations, giving important Foreign bands a wide tuning range. S-p-r-e-a-d-s out the tuning area on the dial so you can log foreign stations just like locals.

Push-Button Tuning. Tune any six of your favorite stations automatically—just by pushing a button. It's easy to set; works accurately. You'll also like the convenience of the manually-tuned giant 7½"x3½" Slide-Rule Dial that shows all the tuning ranges clearly.

Bullt-in Loop Aerial of the newest design does away with outside aerial and ground wires, Works on both Broadcast and Short Wave. Loop can be directionally "tuned" to each station for perfect reception by rotating to position where reception is strongest. (Connection is also provided for external aerial for stronger Short-Wave and longer-distance reception.)

1942 Super Circuit. RCA and Hazeltine licensed, with the latest tube types teamed up powerfully as follows: 6SK7 as TRF; 6SA7 as 1st Det.; 6J5 as Osc.; 6SK7 as 1st IF; 6SK7 as 2nd IF; 6SQ7 as 2nd Det.; 6SQ7 as Driver; 2-6V6GT as Push-Pull Power Output; 6SQ7 as AVE; 6SK7 as AVE; 5U4 as Rect.

Every 1942 Deluxe Feature is built into the Knight 12. RF on all bands means enormously increased sensitivity and reduced background noise. Double-tuned IF's assure consistently dependable reception on all five bands. (These are custom-built set features.) Automatic Volume Control prevents fading, keeps volume uniform on all programs; rubber-floated 3-gang tuning condenser gives sharper selectivity. And the **Knight 12** is ready for whatever tomorrow will bring. Has provision for connecting Television or FM Adapter. Same provision also accommodates Record Player attachment.

Concert-Hall Tone, glorious in its faithful quality, capturing every overtone, every variation of the harmonic register—is apparent always in Knight 12 reception. Develops an amazing undistorted output of 10 full watts. This giant volume is beautifully handled by the 12-inch Concert Electro-Dynamic Speaker which is especially designed for the most faithful reproduction. For added enjoyment there is Personal Tone Control.

Automatic Volume Expansion, (AVE) and Automatic Bass Compensation (ABC) are sensational built-in features of the Knight 12 circuit. AVE automatically restores the proper contrast between loud and soft passages on all musical programs (this contrast is partially lost in transmission). ABC automatically emphasizes the bass notes on low volume and subdues them for proper contrast on loud volume. AVE and ABC are important refinements, working automatically in the receiver circuit, to reproduce tone with a reality that has never before been attainable at such a low price.

Magnificent Console. The Knight 12 is handsomely presented in a new console that is truly a furniture masterpiece. Selected walnut veneers are featured; front face is softly curved at ends; instrument panel is pleasingly slanted; the speaker grille is attractively styled and forms a perfect baffle area. The entire console is richly finished and beautifully hand-rubbed. Measures 36¼" high, 31¾" wide, 13¾" deep.

The Knight 12 Tube 5 Band AC Superhet is offered complete with tubes in the console illustrated at the left. For operation on 110-120 volts, 50-60 cycles AC, Shpg. wt., 82 lbs.

\$**59**95



Tunes All The World On Five Full Bands



With The New Built-In Rotatable Loop Aerial



p-r-e-a-d Bands for Easy Foreign Tuning



Push-Button Tuning For Favorite Stations



12' Dynamic Speaker AVE and ABC Control



Knight 14 TUBE FM-AM CONSOLE

The newest and latest in radio—a deluxe 4 Band Console model that tunes not only all Standard broadcasts but the sensational new "three-dimensional" high-fidelity Frequency Modulation programs as well! It's tomorrow's radio, here for you today!

4 Full Bands. The Knight 14 (with rectifier and Electric Eye) tunes the new "staticless" Frequency Modulation broadcasts on 41 to 50 MC. Tunes all standard Broadcast American stations on 540 to 1720 KC. Covers all the important Foreign and domestic Short-Wave channels on 2.7 to 7.5 and 7 to 22 MC.

Mighty 14 Tube Circuit. Licensed by RCA, Hazeltine and Armstrong—incorporates every new feature and advantage. Uses: 2-6U6GT, 65J5, 2-6H6, 65K7, 6SA7, 2-6AC7, 6SU7, 2-6SF5, 6U5, 5Y3G. Includes: built-in loop aerial for Broadcast. Short-Wave and FM reception; push-button tuning for any 6 favorite stations; giant Slide-Rule Dial; RF Stage on Broadcast band; Double-tuned IF's; 2 Tone Controls—one for bass and one for treble; AVC; 3 Gang Condenser; Phono and Television attachment provision; provision for outside antenna for stronger reception, etc.

High-Fidelity! Power output of the special Inverse-Feedback circuit is more than seven watts undistorted. It is reproduced as high-fidelity tone by a special 12-inch Hi-Fi Dynamic Speaker with a frequency response of up to 10,000 CPS. You'll thrill to the vivid reality of regular Broadcast programs; you'll never case to marvel at the noise-free "three-dimensional" quality of FM tone! The unique Dual Tone Control permits accentuating high or low tones as desired. One control actually boosts the base on low volume, the other controls the upper register. Mixing the two controls obtains the exact tonal response suited to the program you are tuning.

The Knight 14 FM-AM Receiver is offered in beautiful Console as illustrated (same as 12 Tube Console—see full description above) complete with tubes. For 105-125 volts, 50-60 cycles AC. Shpg. wt., 87 lbs.

D-182, Value, \$157.50. NET EACH, \$84.50. NET, LOTS OF 3, EACH.....

(Note: To receive FM programs there must be an FM station within 35 miles of you.)

ENJOY RADIO OR RECORDS!



LATEST AUTOMATIC CHANGER

Know the luxury of record entertainment played by the finest of new Automatic Changers. Gentle-acting, silent, dependable, it plays fourteen 10" or ten 12" records at a single loading—for more than fifty minutes of continuous, supremely enjoyable entertainment from your favorite records

You get higher-fidelity reproduction, less noise, longer record life, with the new low-pressure Crystal pickup that's equipped with the finest type of lifetime playback needle.









Push-Button Tuning of Your Favorite Stations



Latest Built-in Rotatable Loop Aerial



Band S-p-r-e-a-d Tuning for Easy Short Wave Logging



12" Dynamic Speaker For Wide-Fidelity Reproduction

HERE'S THE DELUXE COMBINATION OF THIS OR ANY OTHER SEASON!



Knight 12 TUBE AUTOMATIC PHONO-RADIO

- 5 Full Wave Bands Push-Button Tuning
- 12" Dynamic Speaker
 With Tone Control

- Built-in Loop Aerial
- RF On All Bands 10 Watts Output Volume Expander
 - Bass Compensation

This—the finest 12 tube instrument of them all—is your key to the whole wide world of musical pleasures. Name your entertainment! Radio? Super-powerful as never before, with the thrill of world-wide 5 band reception. Records? As you have never dreamed they could be played—luxuriously, effortlessly—by an Automatic Record Changer that is more gentle than human hands. And when this **Knight** plays, you hear both records and broadcasts reproduced with stirring realism, with a fidelity of tone that seems to bring the original rendition right into your home. All this is yours . . . all this and the beauty of a distinguished console you'll be proud to own!

Thrilling Foreign Reception. Five full wave-bands—packed with entertainment and excitement—are at your command in the Knight 12 (including rectifier). The mighty Superhet circuit of the Knight 12 s-p-r-e-a-d-s out the important Short-Wave bands for the most dependable, easiest-to-tune reception you've ever experienced. Tunes 3.0-9.0 MC for domestic Short-Wave, police, amateur, ship and aviation signals; 8.5-23.5 MC for general Foreign Short-Wave; 9.4-9.8 MC Spread band for night-time European and South American reception; 11.0-12.0 MC Spread band for afternoon European and South American reception. Tunes coast-to-coast American and Canadian standard Broadcast reception from 540 to 1720 KC. Here's complete mastery of everything important that's broadcast in the world of radio today—yours to enjoy now and through the years.

Automatic Push-Button Tuning. Tune any six of your favorite Broadcast stations just by touching a button. Operates quickly—unerringly—every time. In addition, there's a beautiful big 7½"x3½" Slide-Rule Dial for easy manual tuning—shows each band clearly. There's no greater tuning ease and convenience in all radio!

Radio's Finest Superhet. Powerful, dependable, deluxe 1942—that's the RCA and Hazeltine licensed Superhet circuit used in the Knight 12. Uses the latest type tubes as follows: 6SK7 as RF; 6SA7 as 1st Det.; 6J5 as Osc.; 6SK7 as 1st IF; 6SK7 as 2nd IF; 6SQ7 as 2nd Det.; 6SQ7 as Driver; 2-6V6GT as Push-Pull Power Output; 6SQ7 as AVE; 6SK7 as AVE; 5U4 as Rect. Here's one of radio's finest and most powerful circuits.

All These Features: New high-gain built-in Loop Aerial that can be "tuned" by rotation for best results; RF on all bands for enormously increased sensitivity and reduced background noise; Double-tuned IF's for consistently dependable reception on all five bands; Automatic Volume Control to prevent fading and to keep volume uniform; 3 Gang Tuning Condenser for sharpest selectivity; provision for attaching Television or FM adapter.

DeLuxe Record Changer plays fourteen 10-inch or ten 12-inch records at a single loading. Relax and enjoy more than fifty minutes of uninterrupted entertainment! Any record may be rejected by pressing a button; last record repeats until phono is shut off. Has smooth acting precision-built motor; new featherweight Crystal pickup with lifetime needle gives maximum record life and finest tone quality.

Every Tonal Shading is mirrored by the Knight 12—every note, every subtle nuance from radio or records, is re-created for you with all the vital realism of the studio performance. This superb tonal performance is made possible by a special 12-inch Electro-Dynamic Speaker which handles the giant 10 watts output of the circuit with amazing fidelity. Tone Control is included so that you can emphasize bass or treble at will. AVE and ABC (see below) provide properly balanced tone on every program.

Automatic Volume Expansion (AVE), and Automatic Bass Compensation (ABC)—broadcast studio equipment features—are built into the Knight 12. AVE automatically restores the proper contrast between loud and soft passages on both radio and records. ABC automatically emphasizes the bass notes on low volume and subdues them for proper balance on loud volume. These features work automatically to achieve high-fidelity reproduction of the original performance.

Gorgeous Console Cabinet. A beautiful creation of the most skilled design and careful craftsmanship. Superbly built of finest walnut veneers with convenient hinged lid, handsomely shaped grille, and smoothly rounded end panels. Rubbed to a gleaming piano finish. Measures: 36" high, 36" wide, 171/4" deep. It is a console for lovers of good furniture—an instrument for lovers of fine music.

Combination Complete. The Knight 12 is supplied complete with Automatic Record Changer and life time needle, built-in Loop Aerial, 12-inch Dynamic Speaker and tubes. For operation from 110-120 volts, 60 cycles AC. Shpg. wt., 114 lbs.

D-195. Value, \$165.00.

NET PRICE EACH, \$92.50.

NET PRICE, LOTS OF 3, EACH



Knight 12 TUBE COMBINATION WITH RECORDER

The **Knight 12** as described above is also available with Home Recorder mechanism added for making your own quality records. You can have a world of extra entertainment making records of music and voices over the microphone, recording programs off-the-air, using the mike for Home Broadcasting. Includes: **Knight 12** Tube AC Radio complete; Automatic Record Changer-Recorder mechanism; Shure Crystal microphone, stand and cord; steel record-cutting needle, lifetime playback needle, and six 6½-inch recording blanks. With complete instructions. For operation from 110-120 volts, 60 cycles AC. Shpg. wt., 119 lbs.

D-196. Value, \$200.00.

NET PRICE EACH, \$112.50. NET, LOTS OF 3, EACH.....



Custom-Style INSTRUMENTS

Here is Knight's supreme achievement in musical performance and breath-taking beauty instru-ments to bring inspiration and infinite enjoyment to those who appreciate the finest things in life . . .



HIGH-FIDELITY

Know the keen enjoyment of both radio and records reproduced with a stirring sense of tonal reality that is made possible only by high-fidelity components, matched flawlessly to bring you the purest, finest tone you've ever heard! Enjoy High Fidelity at its finest in these Deluxe Instruments!



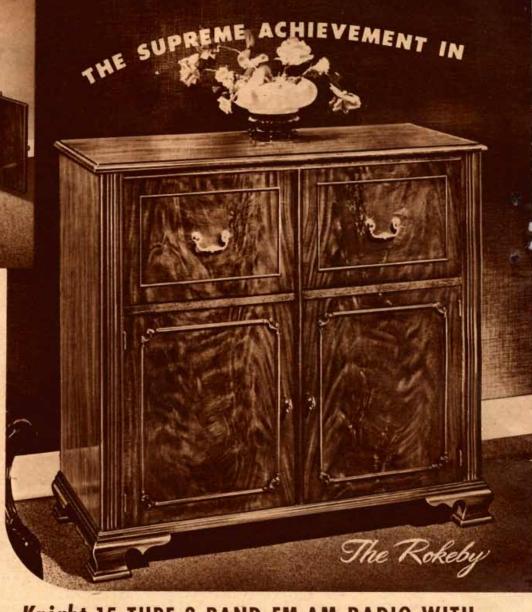
TUNE FM AND AM

It is fitting that the Knight 15—the Radio of Tomorrow—should tune not only standard Broadcast and Foreign and domestic Short Wave, but the marvelous new Frequency Modulation (FM) programs as well. Now you can have the thrill of this new type of high-fidelity, staticless reception!



AUTOMATIC CHANGER

Enjoy the luxurious pleasure of matchless record entertainment with-out interruption! Know the delightful convenience of the superb Garrard Automatic Record Mixer-Changer!



Knight 15 TUBE 3 BAND FM-AM RADIO WITH

Tunes "Staticless" FM Tunes Standard Broadcast

• High-Fidelity Amplifier • 12" High-Fidelity Speaker

• DeLuxe Phono Changer • 10 Watts Power Output

Here are the finest **Knight** instruments ever built—the custom-crafted, precision-made **Knight 15** (with rectifier and Electric Eye)—yours to enjoy for a lifetime! Here is all of the elegance of the richest period furniture; here is not only powerful High-Fidelity reception of all standard Broadcast and Short Wave programs, not only magnificent Automatic Changer Phonograph entertainment—but brilliant reception of the sensational new Frequency Modulation programs as well! Frequency Modulation (FM) is the newest marvel of radio—a thrilling new kind of high-fidelity broadcasting that eliminates static, that's miraculously clear and lifelike. FM stations are springing up all over the country; soon, many Here are the finest Knight instruments ever springing up all over the country; soon, many sections will enjoy this "staticless" high-fidelity reception. Buy now for the future—invest in the most complete and luxurious Home Entertainment instrument you have ever seen or heard.

Regular Broadcast and New FM ranges are covered by the Custom Knight 15. Tunes 540 to 1650 KC for standard Broadcast (AM)

reception. Covers 4.8 to 17 MC for important reception. Covers 4.8 to 17 MC for important Foreign Short Wave Broadcasts, including the new 60 meter South American band. Frequency modulation is tuned on 40 to 50 MC. The big Slide-Rule Dial shows each range clearly; Electric Eye is incorporated for precision tuning on all bands. Push-button automatic tuning is provided for any six favorite stations. Incorporates new high-gain built-in Loop Aerial which operates effectively on each band. operates effectively on each band.

High-Fidelity Tuner. The Knight 15 incorporates two separate chassis—the Tuner and the Amplifier. The Superhet Tuner is of high-fidelity design, fully licensed under RCA, Hazeltine, and Armstrong patents. Uses the following tubes: 6SG7 as RF; 6AB7 as Mod.; 6J5 as OSC.; 2-6SG7 as IF's; 2-6SJ7 as Limiters; 6H6 as Discriminator; 2-6SR7 as 1st and 2nd Audio; 6SR7 as Inverter; 6U5 as Electric Tuning Eye. RF Stage on all bands increases sensitivity enormously for powerful, noise-free reception. Full Automatic Volume Control keeps volume uniform on all programs. Control keeps volume uniform on all programs.

"The Rokeby" FM-AM PHONO-RADIO COMBINATION

The Custom Knight 15 is available in the "Rokeby" Chippendale Console model as illustrated directly above). Scrupulously faithful to authentic Chippendale details, the "Rokeby" is custom crafted of choicely grained mahogany veneers, in a rich panel-design effect, with handsome hardware trims and lovely beaded overlays. The cabinet finish is characteristic of the very finest furniture money can buy. Record Changer and Radio Dial are easily accessible behind the upper panels; space for record album storage and speaker grille opening are behind the two lower panels. Cabinet size: 40' wide, 38' high, 18' deep. The "Rokeby" comes complete with 15 Tube 3 Band FM-AM Radio, Garrard RC-30 Record Changer, 12' Speaker and tubes. For operation from 105-125 volts, 60 cycles AC.

D-199. Value \$495.00

YOUR NET PRICE, EACH



HIGH-FIDELITY AUTOMATIC PHONOGRAPH

- Push-Button Tuning Dual Tone Controls

- Custom Cabinets
 Built-in Loop Aerial
- RF On All Bands Full-Action AVC

High-Fidelity Amplifier. The custom-built audio amplifier of the Knight 15 is designed for high-fidelity reproduction of both radio and record entertainment. Uses 2-6K 6GT as mighty push-pull Output Stage; 5Z3 as Rect. Giant power output is 10 full watts, velvety-clear and undistorted (15 watts maximum). The use of Dual Tone Controls, one for bass and one for treble, provides perfect acoustic balance.

Deluxe Garrard RC-30 Mixer-Changer. This world-famous Automatic Record Changer is yet another indication of the custom-quality built into the Knight 15. Plays eight 10" and 12" records in any combination with no adjustment necessary; gives you the luxurious thrill of uninterrupted entertainment. Has featherweight Crystal pickup (needle pressure only one ounce) and lifetime needle. Frequency response is 30 to 10,000 CPS for true high-fidelity reproduction.

The Glory of Knight Tone as you hear it over these masterpiece instruments, transports you into the broadcast studio, into the record-

ing studio! Each note is vibrant with reality, each tonal shading is translated with thrilling fidelity. Here are the instruments that satisfy the most sensitive and critical ear! It cannot the most sensitive and critical ear! It cannot be otherwise, for here is custom quality, here are high-fidelity components—Hi-Fi Tuner and Amplifier—coupled with a new 12-inch High-Fidelity Dynamic Speaker with specially treated center cone—for a frequency response up to 12,000 CPS! Yes! you'll thrill to the clear tone of standard Broadcast, the staticless purity of FM, the full-throated beauty of your favorite recordings! Yours will be the enjoyment of the ultimate in Phono-Radio tone quality when you possess the Knight 15 is

Custom-Built Cabinets. The Knight 15 is available in a choice of two superbly-styled mahogany Chippendale cabinets (detailed descriptions below). They are authentic in their period design, hand-crafted in every detail, and fashioned of choice woods—to do full justice to the fine instruments they house—and to bring an enduring beauty into your home.



DELUXE DUAL CHASSIS

Quality-built throughout, the heart of the Knight 15 is the Dual Chassis mechanism for both radio and record entertainment. This view shows the separate High-Fidelity Tuner and Amplifier chassis, as well as the High-Fidelity 12-inch Concert Dynamic Speaker. Here is truly one of the very fine expressions of custom radio quality. Here is built-for-a-lifetime dependability, quality, and performance!

"The Kensington" FM-AM PHONO-RADIO COMBINATION

Here is the magnificent Knight 15 in the "Kensington" Chippendale Chest model (shown directly above). Authentic in its period design, it features choice swirt-grained mahogany veneers throughout, exquisitely hand-finished. Beautifully proportioned design is characteristic of finest Eighteenth Century cabinetry—with custom quality in every detail. Record Changer is mounted in paneled drawer that slides forward on roller bearings; Radio Dial is accessible behind upper right-hand panel. Generous record album space is provided behind hinged lower left-hand panel; speaker opening is behind hinged lower right-hand panel. Cabinet size: 40" wide, 38" high, 18" deep, The "Kensington" is supplied complete with 15 Tube 3 Band FM-AM Radio, Garrard RC-30 Record Changer, 12" Speaker and tubes. For 105-125 volts, 60 cycles AC. Shpg. wt., 1751bs.

D-198. Value, \$495.00.

YOUR NET PRICE, EACH.....



Knight 14 TUBE FM-AM PHONO-RADIO

Those who are satisfied only with the best will recognize at once the superlative achievement represented by this distinguished new **Knight** musical instrument. A Radio-Phonograph masterpiece with Automatic Record Changer . . . a High-Fidelity FM receiver . . . a powerful 14-tube All-Wave AM Superhet Radio . . . a magnificent, richly-designed console cabinet. You've seldom seen a comparable instrument at any price, and now **ALLIED** brings it to you in all its glory at a price that represents a very modest-investment for years of undiminished pleasure.

FM—The New Radio Miracle. Radio of the future is here now with Frequency Modulation as brought to you by the Knight 14. Static and noise interference are gone forever. Frequency Modulation programs are tuned on the 41-50 MC wave-band and are reproduced with complete high-fidelity by the magnificent audio system built into the Knight 14.

Foreign Reception. In addition to FM, the Knight 14 tunes three full bands: 2.7-7.5 and 7.0-22 MC for Short Wave foreign and domestic programs. 540-1720 KC for regular standard Broadcast (AM) programs. The giant Slide-Rule dial and Electric Eye assure accurate tuning.

Automatic Push-Button Tuning. At the touch of a button you can tune any of six of your favorite Broadcast stations. Buttons are quickly and easily adjusted; once set, they require no further attention.

RF on Broadcast Band. The secret of ultra-sensitive radio reception. Gives you unchallenged mastery of every point on the dial with extra sensitivity and power.

High-Fidelity Circuit. The Armstrong licensed FM circuit and RCA licensed Superhet circuit of the Knight 14 (with rectifier and tuning eye) have been engineered for true high-fidelity. Fourteen newest tube types are employed: 6SJ5, 2—6U6GT, 6SK7, 6SA7, 2—6AC7, 6SJ7, 2—6H6, 2—6SF5, 6U5, 5Y3G. The audio circuit delivers full 6 watts undistorted Push-Pull output (10 watts max.) "Custom set" circuit features include: Inverse Feedback, 3-gang heavy-duty condenser, Automatic Volume Control, dual Tone Control, built-in loop aerial operating on all bands, Television connection, etc.

Finest Automatic-Changing Phonograph. For recorded entertainment at its very best, the Knight 14 includes deluxe record-playing equipment. The automatic changer accommodates fourteen 10" or ten 12" records for fifty minutes of uninterrupted music. The new lightweight Crystal pickup assures longer record life, with a wide-range response.

Brilliant Tone Quality. The splendid new 12" High-Fidelity FM Dynamic speaker with wide-range response up to 10,000 CPS, the mighty Push-Pull Power Output, and such features as dual Tone Control (separate control of bass and treble registers), Bass Compensation, and Bass Boost, give you an acoustically correct tonal balance for every program you must hear for yourself to believe.

Luxurious Console. Tastefully designed and carefully executed in beautifully-grained walnut veneers. Its graceful proportions and lustrous finish, its quiet but impressive dignity, fittingly complement the radio masterpiece it houses. Size: 36" wide, 36" high, 17½" deep.

Knight 14 Tube Combination Complete with tubes. In cabinet shown above. For 105-125 volts, 60 cycles AC. Shpg. wt., 119 lbs.

D-197. Value, \$197.50. NET PRICE, EACH, \$117.50.
NET PRICE, LOTS OF 3, EACH

\$112⁵⁰

COMPLETE HOME ENTERTAINMENT

HIGH-FIDELITY
FM-AM AUTOMATIC
PHONO-RADIO



Enjoy an uninterrupted program of recorded music—the fine Automatic Record Changer of the Knight 14 does all the work for you. There's nothing like it for playing convenience.



The giant 7' x 2½'s Slide-Rule dial has separate, clearly legible scales for easy tuning of AM, FM, and Short Wave stations. There's Push-Button Tuning, too, for extra ease and convenience.



Enjoy high-fidelity tone from the special Hi-Fi FM Dynamic speaker with remarkable wide-range response up to 10,000 CPS. Know the luxury of superb tonal quality!



Built-in loop aerial works on all bands for splendid reception without trailing antenna and ground wires. Plug in and play! It's still another "extra value" 1942 feature.



Knight 8 TUBE PHONO-RADIO WITH RECORDER

Your Complete Home Entertainer—a wonderful new instrument bringing everything you could ask for in radio and recording! Combines (1) A powerful Superhet radio for splendid reception; (2) A superb Home Recorder to make your own records; (3) A high-grade Electric Phonograph to play all recordings; (4) A Home Broadcaster—complete with a fine quality Crystal Microphone; (5) New beauty of styling in a handsome table cabinet.

Make Records at Home! It's simplicity itself. Just set the recording head on a blank disc (up to 10" size) and you're ready to cut your own records. Features quality Magnetic recording head, heavy-duty turntable, rugged rim-drive motor. Electric Eye indicator monitors recording level. The Crystal Microphone enables you to record music or voice with excellent fidelity. You can also record favorite programs right off-the-air.

Great Superhet Receiver. Tunes 550-1650 KC, for all standard Broadcast programs. Features: mighty five watts undistorted Push-Pull output (7 watts max.)—more than ample power for every need; built-in loop aerial; 6" x 3½" Slide-Rule dial; Automatic Volume Control; Electric Tuning Eye; new 6" Electro-Dynamic speaker for rich, full-bodied tone. RCA and Hazeltine licensed Superhet circuit uses latest tubes: 12SA7GT, 12SK7GT, 2—12SQ7GT, 2—35L6GT, 35Z6, 6U5.

Fine Record Player. For delightful reproduction of all recordings, the **Knight 8** (with rectifier and tuning eye) Combination uses the high-quality recording motor-turntable unit and a light-weight Crystal pickup; powerful Push-Pull Output and big Dynamic speaker combine to give you amazing record-reproducing fidelity.

Handsome Table Cabinet. Of richly-grained walnut veneers on hardwood. Lid closes on both 10" and 12" records. Size: 17½" x 11½" x 13½". Supplied complete with tubes and with Crystal Microphone, recording needle, six blank discs, playback needle, and instructions. For 105-125 volts, 60 cycles AC. Shpg. wt., 40 lbs.

D-176. NET PRICE, EACH, \$47.50. NET PRICE, LOTS OF 3, EACH......

\$4585

Knight 6 TUBE PORTABLE PHONO-RADIO-RECORDER

Dozens of new thrills are in store for you in this remarkable new instrument! For here is Complete Home Entertainment at a price that will astound you! Make your own records through the Microphone . . . Take Recordings off-the-air . . . Play all phonograph records . . . Make your own Home Broadcasts . . . Enjoy powerful radio reception. Get all this at a price you'd ordinarily pay for a good table model radio alone. You've never seen such value before!

Make Your Own Records! Anyone can do it! Just set the recording head on the blank disc (up to 10" size) and cut your own quality records. Make home recordings over the Crystal microphone supplied; make recordings of your favorite radio programs. It's simple as ABC with the efficient, simplified recording mechanism. Consists of a heavy-duty rim-driven motor with 10-inch weighted turntable. Has quality magnetic cutting head with automatic switching arrangement. Head has adjustment to cut any coated home recording blanks properly. A neon level indicator shows visually the proper sound level for recording.

The Radio Receiver. Tunes 535-1720 KC for all American and Canadian Standard Broadcast and police calls. Features: built-in loop—no aerial, no ground needed; big 3½" x 3½" Airplane Dial; AVC to keep volume uniform; 3 watts output—plenty of power for every purpose; 5-inch Electro-Dynamic Speaker for superb tonal results. RCA licensed Superhet uses: 6A8GT Converter, 6K7GT IF Amp., 2—6Q7GT as Microphone Amp. and Diode, 6K6GT Power Output, 6X5GT Rectifier.

The Record Player. You get a perfect-playing phonograph in the Knight 6 (with rectifier) Combination. The extra-heavy turntable, designed for recording purposes, assures uniform speed and smoothness not found in ordinary home phonographs. The 1½-ounce Crystal pickup reproduces all records with rare fidelity.

Beautiful Portable Model. You'll like the practical portable carrying case. It is sturdily built and covered in brown alligator-grain simulated leather. Has strong carrying handle. Size: 17½" x 15½" x 1½". The Knight 6 Combination comes complete as described, including tubes, Crystal microphone, steel recording needle, six 6½-inch double-side blank recording discs, lifetime playback needle, and instructions. For 110-120 volts, 60 cycles AC. Shpg. wt., 41 lbs.

D-174.

NET PRICE, EACH, \$46.50. NET, LOTS OF 3, EACH \$4485







Knight 5 TUBE PHONO-RADIO

Radio plus recorded entertainment is yours at truly low cost in this new Knight 5 Tube (with rectifier) Radio-Phonograph. Thrill to the crisp, clear reproduction of your favorite radio programs; enjoy the exciting reproduction of your favorite recordings. The Knight 5 brings you both—together with beautiful styling and newest radio-phono features—at a price far lower than you'd expect.

phono reatures—at a price far flower than you'd expect.

Splendid Phono Performance. For enjoyable reproduction of all 10" and 12" recordings, the Knight 5 incorporates finest quality phono components. The powerful, silent 78 RPM self-starting motor is equipped with a heavy 9" turntable. The newest light-weight Crystal pickup (needle pressure only 1½ oz.) provides better performance and assures longer record life. Includes quick-action phono-radio switch, needle cup, and pickup arm-rest.

phono-radio switch, needle cup, and pickup arm-rest. Powerful Superhet Circuit. The radio portion of the Knight 5 Tube Phono-Radio incorporates an efficiently-engineered, sensitive Superhet circuit licensed by RCA. Tunes the entire Broadcast band from 535 to 1720 KC, bringing you outstanding reception of all standard Broadcast programs plus upper channel Police Calls. Extravalue circuit features include: full Automatic Volume Control for uniform volume level on all programs; heavyduty 5-inch Dynamic speaker for rich, lifelike tone quality; big 4" square illuminated Airplane dial for easy tuning. Latest efficient tubes are employed as follows: 12A8GT as Conv.-Osc. (dual-purpose); 12K7GT as IF Amp.; 12Q7GT as triple-purpose Diode Det.-AVC-1st Audio; 35L6GT as Power Output; and 35Z5GT Rectifier.

Built-in Loop Aerial. No more trailing aerial or ground wires. Built-in Loop provides splendid signal pickup, yet enables you to place the **Knight 5** anywhere in the room. Just plug into the nearest electric outlet and play!

Table Model Complete. You'll be proud of the lovely table cabinet which houses the **Knight 5.** Select, richly-grained walnut veneers are employed in a neat, tasteful design. Hinged lid closes over all records. Size: 145%"x 11½"x10". Supplied complete with tubes. For 110-120 volts, 60 cycles AC. Shpg. wt., 22 lbs.

D-170

NET PRICE, EACH, \$22.75. NET, LOTS OF 3, EACH..... \$2185

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Knight LOW-COST PHONO-RADIO

Value-plus is the keynote of this popular **Knight** 5 Tube (with rectifier) Phono-Radio. Value such as you've seldom seen—a quality instrument bringing you splendid radio and phonograph performance at a smashing low price! Plus-features for better operation and extra convenience. Here's the value leader for complete home entertainment.

Thrilling Phono Performance. You'll marvel at the way in which the Knight 5 brings you splendid reproduction of all 10" and 12" recordings—popular or symphonic. Rugged, self-starting 78 RPM motor is smooth-operating and silent. Has lightweight Crystal pickup (only 1½ oz. needle pressure), needle-cup and pickup arm-rest.

Powerful Superhet. For sensitive, selective reception over the complete Broadcast band and upper Police channels. Tunes 535 to 1720 KC. RCA licensed, the Superhet circuit features Automatic Volume Control; new heavy-duty Dynamic speaker; built-in Loop Aerial—no trailing aerial or ground wires; latest tube types: 12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT.

Complete in Plastic Cabinet. A truly streamlined beauty—its smooth lines, striking speaker grille, neat molded controls will highlight any setting. Size: 9¾"x 12¾"x6½". Supplied complete with tubes in Ivory or Walnut cabinet as illustrated at left center. For 110-120 volts, 60 cycles AC. Shpg. wt., 15 lbs.

D-171. Walnut Model. NET EACH, \$17.25. NET, LOTS OF 3, EACH.....

\$1660

D-172. Ivory Model. NET EACH, \$18.50. NET, LOTS OF 3, EACH.....

\$1775

Knight PORTABLE PHONO-RADIO

For complete radio and record entertainment with the added convenience of easy portability, the **Knight** 5 Tube (with rectifier) Low-Cost Phono-Radio, described directly above, is also offered in the striking portable case pictured at left. Covered in handsome, airplane-luggage cloth with grey tweed effect and contrasting top and side bands. Control panel has protective lid; hinged top will close over 10" or 12" records. Size: 13"x15"x8½"

Complete Radio and Phonograph. Includes all features of model described above: Superhet circuit, AVC, new Dynamic speaker, Crystal pickup, etc. Supplied complete with tubes. For 110-120 volts, 60 cycles AC. Shpg. wt., 17 lbs.

D-173.

NET PRICE, EACH, \$23.25. NET, LOTS OF 3, EACH..... \$2235



THE Knight "DUET" WITH AUTOMATIC CHANGER

The perfect instrument for deluxe record reproduction. A complete phonograph with built-in Seeburg Automatic Record Chang-er, 2.5 watt Amplifier, and lightweight Pickup-all in a handsome walnut cabinet.

Seeburg Record Changer. This famous changer gives you uninterrupted recorded entertainment for almost an hour. Plays 14-10' or 10-12' records at a single loading. Self-starting motor is constant-speed 78 RPM type. For wide-range tone quality and longer record life, a light-weight Crystal Pickup is used (needle pressure only I oz.). A 4000-play raremetal needle is included.

Special Amplifier. For full-volume and wide-range response, the "Duet" includes a built-in 3-tube amplifier. Employs Inverse Feedback circuit and provides full 2.5 watts output, capably handled by the 5' Dynamic Speaker.

Handsome Cabinet. You'll like the striking simplicity of design. Constructed of choice walnut veneers on hardwood, rubbed to a lustrous finish. Plays all records with lid closed. Size: 17½ wide, 14½ deep, 10½ high.

The "Duet," complete with tubes, record changer, and long-playing needle. For 110-120 volts, 60 cycles AC. Shpg. wt., 40 lbs.

96-280. NET EACH, \$32.75. NET, LOTS OF 3, EACH....

THE Knight "CLASSIC" WITH LIGHTWEIGHT PICKUP

An amazingly low-priced, completely self-contained Record Player and Amplifier combined. New lightweight Crystal Pickup assures better record reproduction with less wear. Check these quality features:

Deluxe Amplifier. The 3-tube Inverse Feedback amplifier develops exceptional fidelity and volume. Uses specially-matched 5-inch Dynamic Speaker to bring out the full beauty of tone from each record.

fone from each record.

Finest Components. The new Astatic offsethead Crystal Pickup has a needle pressure of only 1 oz. for splendid reproduction and longer record life. Latest 78 RPM constant-speed rimdrive self-starting motor with 9-inch turntable plays both 10- and 12-inch records. A 4000-play rare metal needle is also supplied. With volume control, automatic stop, etc.

control, automatic stop, etc.

Attractive Cabinet. A very handsome table cabinet of choice walnut veneers, hand-rubbed to a rich finish. Plays all records with lid closed. Cabinet measures: 14½° wide, 12½° deep, 9¼° high. You'll be proud to own it.

Knight "Classic" Complete. One of our most popular record player-amplifiers. Complete with tubes and long-playing needle. For 110-120 volts, 60 cycles AC. Shpg. wt., 19 lbs. 96-281.

NET EACH, \$20.25.
NET, LOTS OF 3, EACH....

THE Knight "MUSICALE" WITH AUTOMATIC CHANGER

A smashing feature value! A completely self-contained Record Player with Auto-matic Changer and Amplifier housed in an attractive walnut grain metal case.

Automatic Record Changer. Almost an hour of uninterrupted entertainment while you lounge in your chair! Plays 12-10' or 10-12' records at a single loading. Features: 78 RPM constant-speed motor, feather-weight pickup with long-playing needle, single adjustment.

Beam Power Amplifier. An efficiently designed three-tube amplifier with strong Beam Power Output. Has matched six-inch oval Electro-Dynamic speaker. Includes volume control and full-range tone control.

Modern Case. Completely contained in a neat, walnut-grained open-face cabinet with monk's cloth grille. 12' long, 9' high, 11' deep.

Knight "Musicale" Complete with tubes, record-changer, and long-playing needle. For 110 volts, 60 cycles AC. Shpg. wt., 16 lbs.

96-370. NET EACH, \$21.95. NET, LOTS OF 3, EACH.

96-371. WIRELESS AUTOMATIC RECORD PLAYER. Similar to above, but less amplifier. Has two-tube wireless unit; plays through any radio set without direct connection. 12 lbs. NET...... \$18.50



NEW PORTABLE AMPLIFIED ELECTRIC PHONOGRAPHS

PHONOLA MODEL 100-K

A modestly-priced, compact portable elec-tric phonograph with built-in amplifier. Excellent for tourists, campers, students, etc. Incorporates latest features for enjoy-able and dependable record reproduction.

Built-In Amplifier. The efficiently-designed 2-tube amplifier furnishes a power output of 1.8 watts. Has matched 4-inch speaker with fine tonal response.

Phone Components. The rim-drive 78 RPM constant-speed motor with 9-inch turntable provides splendid facilities for playing all 10-inch and 12-inch records. Crystal pickup in balanced tone arm assures good quality reproduction and low record wear. Has combination on-off switch and volume control; built-in needle-cup with cover.

Smart Luggage-Type Case. An exceptionally handsome portable case; finished in maroon straw-grain fabric. With sturdy carrying handle. Plays 10-inch records with lid closed. Size: 171/2*111/4*x51/2*. Carrying weight only 10 lbs.

Phonola Portable Complete. With tubes For 110-120 volts, 60 cycles AC. Wt., 121/2 lbs.

96-355. NET EACH, \$16.72. NET, LOTS OF 3, EACH.....

KNIGHT DELUXE PHONO

A wonderful new Record Player and Amplifier with unusually generous Power Output and new Automatic start-and-stop feature.

Beam Power Amplifier. Uses 12Q7GT. 50L6GT and a 3525GT rectifier to furnish splendid 4 watts undistorted output. Has matched Dynamic speaker to handle the full output without distortion.

output without distortion.

Automatic Start-and-Stop. A brand new feature! Motor starts automatically when tone arm is placed in record groove, and stops automatically when record is through. Lightweight Crystal Pickup fitted with rare-metal tipped 1000-play needle. Heavy-duty motor is constant-speed, 78 RPM synchronous type. Accommodates all 10 and 12-inch records, Handsome Carrying Case. A richly-finished Portable case you'll be proud to carry. Covered with weatherproof simulated tan leather. Lid has storage space for 12 records. Size: 15' wide, 13'/2' deep, 8' high. Plays all records with lid closed. Carrying weight, only 14'/2 lbs. Knight Deluxe Complete. Supplied complete with tubes and needle. For 110 volts, 60 cycles AC. Shpg. wt., 18 lbs.

96-380. NET EACH, \$17.75. NET, LOTS OF 3, EACH....

KNIGHT SUPER PHONO

One of the very finest Portable Electric Record Player and Amplifier units we know of—and priced far lower than what you'd expect to pay. Note the deluxe features!

expect to pay. Note the deluxe features!

Built-in Amplifier. A powerful two-tube amplifier coupled to a full 6½ inch Electro-Dynamic speaker furnishes actual auditorium volume and pure, undistorted tone quality. Has generous baffle area for finest response.

Deluxe Components. The die-cast, straightarm Crystal Pickup is exceptionally light in weight for longer record life. Has built-in pilot light for greater convenience. Powerful self-starting 78 RPM induction-type motor is equipped with automatic stop. Plays all 10-and 12-inch records with lid closed. Includes variable volume control, tone control, pickup arm-rest, and needle-cup.

Luxurious Case. A beautifully proportioned

Luxurious Case. A beautifully proportioned Portable case with simulated leather covering in Sun Tan Saddle color. Has slide-out drawer for record storage. Size: 16½'x15½'x7½' Carrying weight, only 13 lbs.

Knight Super complete with tubes. For 110 volts, 60 cycles AC. Shpg. wt., 15 lbs.

96-385. NET EACH, \$18.95. \$1795 LOTS OF 3, EACH.....

OUR GREATEST FARM RADIO VALUE



Knight 4 TUBE 1.4 VOLT FARM RADIO

• 6" Dynamic Speaker • Full-Acting A.V.C.

Full-View Airplane Dial
 1942 Superhet Circuit

• 750-850 Hour Pack Tunes Police Calls

Because we've been offering the best values in Farm Radios right from the early days, we've got a real reputation to uphold. We're staking that fine reputation on this new **Knight 4** Tube Farm Radio because we honestly feel that it's the lowest-priced quality Farm Radio and the best value you'll be able to discover anywhere! It has what you want—it's a "Ben Franklin" for thrift—it's a powerful, dependable performer even in remote locations—it's just about the most handsome Farm Radio you've ever laid eyes on! Just check these value facts:

Economy Leader. Low initial cost—low upkeep—that's what you get in this Knight 4.
"A" drain is only .25 amperes; "B" drain is only 11 milliamperes. The single-unit dry "AB"
power pack that fits right inside the cabinet, is guaranteed to last for at least 750 hours (in
most cases works up to 850 hours actually) before requiring replacement. You get a full season
of radio enjoyment—with the set playing every day—at a cost of less than two cents a day! Now that's real Farm Radio economy and a performance record that's hard to beat

Latest Superhet Circuit. You've got a real radio thrill coming when you tune this Knight

4. Covers the full 535-1720 KC range powerfully, to bring you all American and Canadian
standard Broadcast programs, as well as the popular 1712 KC Police Channel. The Superhet
circuit is licensed by RCA; uses the following tubes: 1A7GT as Conv.-Osc. (dual-purpose);
1N5GT as IF; 1H5GT as Det.-AVC-1st Audio (triple-purpose); 1Q5GT as Power Output.
The secret of the better power and performance of the Knight 4 is in the use of the multipurpose tubes which deliver five and six tube set results.

Remarkably Life-like Tone. There's a full 6" Dynamic Speaker of the latest design used in the Knight 4. Has extra-heavy construction; makes a world of difference in the tone quality. Reproduces every program with a natural depth of tone that will delight you always.

Additional Features. Automatic Volume Control is incorporated to prevent fading and to keep volume steady on all programs. Tuning is delightfully easy with the entirely new type of giant Airplane Dial that's clearly calibrated in kilocycles. There's an "on-off" indicator included that shows you when the set is in operation.

Striking Cabinet Design. Good-taste is written all over the fine cabinet we've chosen to house the Knight 4. Choice walnut veneers are used throughout. Ends are softly rounded; speaker grille opening is simple but beautiful; dial escutcheon is walnut plastic molded. The cabinet is generously proportioned and has space for conveniently holding the complete "AB" power pack. The cabinet measures: 18½" long, 10½" deep, 9½" high.

Knight 4 Complete. The Knight 4 Tube 1.4 Volt Superhet is offered complete with tubes as described above, but less "AB" pack. Shpg. wt., 13 lbs,

28

D-140. Value, \$24.95. NET PRICE EACH D-141. As above, but complete with 750-850 hour "AB" pack. Wt., 34 lbs.

80-836. Replacement 750-850 hour "AB" pack. 1534"x7"x41/4". 21 lbs. NET \$3.67

(When High-line comes, electrify with Porta-Power, described at right.)

PLAY BATTERY SETS FROM A-C CURRENT with PORTA-POWER

Here is a new type of Power Unit that will double the utility of any 1.4 volt, 2-3 volt, or 6 volt Farm Radio. Permits you to play any of these sets direct from 110 volts AC. Easy to connect; just plug in and play. If the high lines have come into your locality, or if you have moved to where AC current is available, you'll want one of these Porta-Power units to replace your radio batteries with AC. Works with real efficiency and dependability.

FOR 1.4 VOLT SETS

TYPE U

Permits you to operate any 1.4 (or 1.5) volt midget or portable radio from 105-125 volt, 50-60 cycle current. Eliminates batteries entirely. For use with sets having up to 5 tubes. Fits right into battery compartment. Size is only 2 'x31/2'x6'. Has sockets for every type of battery plug. Insert battery plug into Porta-Power and play radio from 105-125 volts AC. Has copper suffice rectifier for "A" current; type 6P5GT tube for "B" current. Supplied with 6-foot AC cord, plug and "on-off" switch. Slapg. wt., 4 lbs. \$441 NET.

HEAVY-DUTY MODEL

TYPE L

FOR 2-3

Porta-Power for 2, 2.5 or 3-volt radios, using from 4 to 8 tubes. Eliminates all "A", "B" and "C" batteries. Works from 105-125 volts, 50-60 cycles AC. Delivers: 67.5, 90, 112.5 and 135 volts of "B" from 4.5 to 22.5 adjustable "C". Split "C" is obtained from external resistors. Just plug in and play any 2, 2, 5 or 3-volt radio receiver from 105-125 volts AC. Size: 61/6"x4"x51/6". With 6-foot cord, plug, and "on-off" switch. Shpg. wt., 6 lbs. 80-172.

TYPE P

This Porta-Power unit

FOR 6 **VOLT SETS**

This Porta-Power unit converts practically any 4 to 10 tube 6-volt battery radio for operation direct from 105-125 volts, 50-60 cycles AC. Delivers two separate 6 volts at 1.5 amperes each. May be connected in series for 12 volts, or in parallel for 3 amperes. Exceptionally quiet in operation. Supplied with cord, plug and switch. If you now have AC current, you can put your 6 Volt Radio to work again inexpensively, with this fine efficient power adapter unit. Size: 3¾°x5½°x6¾°. \$820 Shpg, wt., 8 lbs.

PLAYS ON BATTERIES OR FROM AC-DC CURRENT!



Knight 6 TUBE 1.4 VOLT-110 VOLT AC-DC SUPER

- 3-Way Operation Full-Acting A.V.C.
- Sensitive RF Stage
 3 Gang Condenser
- Big Airplane Dial
 5" Dynamic Speaker

Here's the Farm Radio that's built with an eye to the future! Works from self-contained batteries, from 110-125 volts AC, or from 110-125 volts DC. It's the new 1942 type of Farm Radio that you can't beat anywhere for powerful reception in any location, for dependable, thrifty operation, for life-like tone quality! You get all this—plus three-way operation at no more than the cost of an ordinary battery radio!

Three-Way Operation. You can operate the Knight 6 from its self-contained batteries; plug it into any 110-125 volt, 40-60 cycles, AC outlet; operate it from 110-125 volts DC. Either way, it's just as powerful, just as economical to operate. Here is a Farm Radio that's designed for the future. If you move to the city, or if the high line comes your way, just plug it into the light socket and enjoy the same fine reception you get on battery operation!

Unusually Powerful Circuit. The Knight 6 (with rectifier) features RF stage-an expensive set feature—for extra sensitivity in tuning distant stations. Reception is enjoyable even in remote localities where ordinary Farm Radios are unsatisfactory. The cleverly-engineered RCA and Hazeltine licensed Superhet circuit uses newest 1.4 volt low-drain tubes as follows: 1H5GT as Det.-AVC-1st Audio; 1A7GT as Conv.-Osc.; 1N5GT as IF; 1N5GT as RF; 3Q5GT as Output; 35Z5GT as Rectifier. The multi-purpose tubes develop the power and efficiency of many 7- and 8-tube sets.

Long Distance Range. Tuning range covers the entire standard American Broadcast band. Tunes 540 to 1650 KC. Tuning is unusually simple with the attractive big Airplane Dial; calibrations are extra large for easy logging. Full Automatic Volume Control maintains constant, unvarying volume level on all stations; prevents annoying fading or blasting. A heavyduty, rubber-mounted 3-gang condenser provides fine sensitivity and selectivity.

Thrifty to Operate. On either batteries or AC-DC, the Knight 6 is a "current-miser." The battery pack is good for approximately 650-700 hours of service before requiring replacement. You'll appreciate this amazing economy. Inexpensive battery pack is easily obtainable.

Splendid Tone. You'll enjoy unusual fidelity and richness of tone as programs are recreated through the Beam Power circuit and reproduced by the special 5-inch Dynamic Speaker. Here's tone quality that matches the finest city radio performance. You'll get a real listening thrill out of this exceptionally true-toned Farm Radio.

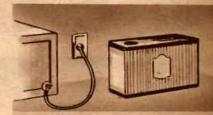
Charming Table Cabinet. The Knight 6 is fittingly presented in one of the outstanding Farm Radio designs of the year. Generously proportioned, it is fashioned of select, walnut veneers, with contrasting grain effect, and a beautiful lattice grill treatment. Cabinet has space to hold "AB" pack. Size: 19½" long, 10" deep, 10" high.

Set Complete. The Knight 6 Tube Farm Radio in table model cabinet is offered complete with tubes as illustrated and described. For 1.4 volt battery operation, or 110-125 volts, 40-60 cycles AC, or 110-125 volts DC. Less Batteries. Shpg. wt., 15 lbs.

D-145. Value, \$37.50. *
NET PRICE EACH. D-146. As above, but with 650-700 hour Battery Pack. Shpg. wt., 36 lbs. NET PRICE EACH. \$25.45

80-836. Replacement Battery Pack for above set. NET \$3.67.





You're set for the future with this Knight 6! Enjoy it now from its economical self-contained battery pack,—then, when the high line comes, just plug in and operate it dependably from electric socket!



Special 3-gang tuning condens-er means greater sensitivity and fine selectivity.

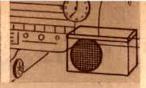
heavy-duty dy-namic speaker assures faithful



Tuning control unit mounts neatly against lower edge of dash.



Speaker-Audio unit fits behind dash grille pro-vided in new cars.



Speaker-Audio unit fits on fire-wall in older cars less dash grille.







Knight 5-TUBE AUTO RADIO

All the pleasures of dependable radio reception while you drive—the luxury and convenience of Custom-Type Speaker Installation—and the features of a quality-built set are now within the range of every car owner. Here for the first time in the low-priced field is the Auto Radio you've been waiting for!

Custom Speaker Installation. The Knight 5 (with rectifier) is a cleverly designed two-unit instrument. The speaker and audio amplifier are combined in a compact steel case designed to fit behind the dashboard speaker grille provided in most newer model cars. The tuning unit and dial are housed in a second compact unit that mounts neatly against the lower edge of the car dash panel. The two units are connected by an inconspicuous cable.

Fits All Popular Cars. The Speaker unit is equipped with special mounting brackets for concealed installation behind the dash speaker grille in practically all cars made since 1939. Fits perfectly in Chevrolet—1940, '41, '42; Ford—1939, '40, '41, '42; Plymouth—1939-42; Dodge—1939-42; Pontiac—1939-42; Buick—1937-42; Studebaker—1940-42; Chrysler—1939-42; etc. In older cars the speaker may be mounted on the firewall for an equally attractive installation.

All-Electric Radio. The Superhet circuit of the RCA licensed Knight 5 has a built-in dependable vibrator power supply for all-electric operation. Uses latest tube types: 6SA7, 6SK7, 6SK7, 6K6GT, 6XSGT. Tuning range is 535-1650 KC for powerful coverage of all standard Broadcast programs.

Newst Aute Radio Features. The Knight 5 is unusually easy to tune; the big illuminated Slide-Rule Dial is clearly calibrated, and the molded tuning and volume control knobs are always easily within reach. Other valuable features include; full Automatic Volume Control; full 1.6 watts undistorted output; rugged 5' Electro-Dynamic speaker; low battery drain; suppressorless operation.

Smart, Modern Design. The Tuning Unit has an attractive front face of moided grey Tenite with matching moided knobs and a sturdy metal body; size: 6½ x 3½ x 3½ x 3½. Speaker unit is in a grey finished metal case, only 7 x 5 x 3%. The Knight 5 is supplied complete with tubes and mounting brackets. Shpg. wt., 9½ lbs.

D-130. NET EACH, \$16.75. NET, LOTS OF 3, EACH

7-TUBE DELUXE AUTO RADIO

The pace-setter for value!-A 7-tube Deluxe Superhet (with rectiner), giving you custom-type installation, push-button tuning, bigger power output, and 1942's newest features.

One Push-Button Automatic Tuning. Automatic tun-ing of any of five predetermined stations all from a single button. Just press Selector button until you have de-sired program. Regular manual tuning, too.

Fits Any Car. The 6' removable Dynamic speaker unit mounts behind dash grille in newer cars or may be left in receiver case for single-unit mounting in older cars. Tuning mechanism mounts in car panel space or at edge of dash.

Deluxe Superhet. Amazing RCA licensed Superhet circuit with expensive set features: 6 watts undistorted pushpull output; flat AVC; local-distance sensitivity switch; Tone Control; three-circuit permeability tuning system. Tubes are: 3—6SK7, 6SA7, 6K6G, 6SQ7, 6N7G.

Knight Deluxe 7, complete with tubes, in neat metal case, 11' x 8½' x 7¾', with removable speaker, tuning mechanism, and hardware. Requires either of tuning control heads below. Shpg. wt., 23 lbs.

D-132. Value, \$56.50. NET EACH, \$29.95. \$2845

SPECIAL CONTROL MOUNTING KITS

p-260. Universal Control. For mounting tuning mechanism to lower edge of dash instrument panel. 2 lbs.

D-261. Custom Control. For mounting tuning mechanism in panel of cars equipped with radio control compartment. Specify make, model, and year of car. 2 lbs. \$1.47

Knight 6-TUBE AUTO RADIO

Push-button tuning plus splendid performance and enjoyable tone quality—all at the lowest price in the field for a quality-built Auto Radio. That's the Knight 6 Tube Auto Radio—the set for every car, the set you can afford.

Push-Button Tuning. A distinct contribution to greater safety on the road and to greater convenience in tuning. Just press a button for any of five favorite stations. You can also tune stations manually by means of the big new 5' long Slide-Rule dial.

Easy to Install. The Knight 6 will fit any make and model automobile. Single unit construction makes installation exceptionally simple. Entire unit mounts neatly to lower edge of dashboard panel.

All-Electric Operation. The Knight 6 Tube Auto Radio (with rectifier) is built for all-electric operation; has an efficient built-in vibrator supply. RCA and Hazeline licensed Superhet circuit uses latest tubes: 2—6K7GT, 6A8GT, 6Q7GT, 6K6GT, 6X5GT, No suppressors required.

Latest Auto Radio Features. Tuning range covers 535-1550 KC for powerful reception of all standard Broadcast programs. Features: Full Automatic-Volume Control, 2 watts undistorted output; Electro-Dynamic speaker; RF stage for added sensitivity; low-drain operation.

Compact Design. The Knight 6 is completely contained in a rugged metal case finished in grey; measures: 12' deep, 6'/4' wide, 5'/4' high. Supplied complete with tubes. Shpg. wt., 14 lbs.

D-131. Value, \$29.95. NET EACH, \$18.95.\$1795

picnics, and in any room at home or in the office. Wonderful three-way operation from batteries, from 110 volts AC, from 110 volts DC—that's what you get, together with a host of worthwhile new features, in this new Knight 5 Tube (with rectifier) 3-Way Portable Padio-and at the wear's lowest price for Portable Radio-and at the year's lowest price for a quality-built set of this type.

Plays Perfectly Anywhere. The Knight 5 operates with equal efficiency from the self-contained batteries or from 110 volts AC or DC. When there's electric current available, just plug in and play. In the country, just switch to battery power supply. Everything is built in—including a dependable loop aerial.

ndid Radio Reception. Tunes 540-1630 KC for coverage of the complete standard Broadcast Knight 5 is easy to tune, too—because the e dial is clearly and legibly calibrated.

mical Operation. Performance on batteries is as powerful and enjoyable as when you plug in on ctric current, yet battery drain is held down to the inimum. Batteries will give you about 150-200 hours of service before replacement is necessary.

Newest Superhet. Low-drain tubes are employed in an RCA licensed Superhet circuit. Uses: 1A7GT as Osc.-Conv.; 1N5GT as I.F.; 1H5GT as Det.-AVC-1st Audio; 1T5GT as Output; 117Z4GT Rectifier. The multi-purpose tubes add to powerful performance. Other value-giving circuit features include: full Automatic Volume Control; an efficient new five-inch Dynamic speaker for finest tone quality; smooth-acting switch for quick shift from battery to AC or DC operation.

Attractive Styling. A handsome luggage-type case you'll be proud to take anywhere. Covered in rich, beautiful two-tone brown and tan leatherette. With beautiful two-tone brown and tan leatherette. With carrying handle and personal identification tag. Size: 13"x9\forall"\tau5\forall'". Carrying weight, only 14 lbs. The **Knight** 5 Tube 3-Way Portable is supplied complete with tubes and batteries in open-face carrying case shown at right above. For operation from 105-125 volts, 50-60 cycles, AC or DC, or from batteries. Shpg. wt., 16 lbs.

D-160. Value \$26.50. NET PRICE EACH, \$17.35. NET, LOTS OF 3, EACH......

80-821. Extra Battery Kit, 6 lbs. NET \$2.41

Knight 7-TUBE 2-BAND PORTABLE

Meet the leader! The finest portable radio made—giving you not only powerful 3-Way performance from batteries, AC, or DC, but, in addition, the thrill of 2-Band reception—Short Wave as well as standard Broadcast! Note our low price, too—it's actually lower than what is often asked for 1-band portables.

Three-Way Operation. You can operate the Knight 7 (with rectifier) from its self-contained batteries, from 110 volts AC, from 110 volts DC. All three ways you get splendid radio reception. The Knight 7 is economical, too. The batteries supplied will furnish up to 200 hours of entertainment before replacement.

Everything Built-In. No aerial, no ground, no complicated connections to worry about. The efficient built-in loop aerial picks up programs with fine sensitivity.

2 Band Range. Here's a Portable that tunes more than just the Broadcast band. Covers 5.8-18 MC to bring you the added thrill of Short Wave reception. And, of course, you get strong standard Broadcast reception on the 540-1650 KC range.

New 3-Way Circuit. The cleverly designed RCA and Hazeltine licensed Superhet circuit brings you the latest advances in Portable design. New tube types are used: 1A7, 2—1N5, 1H5, 3Q5, 50L6, 35Z5.

RF Stage on both bands results in many times the sensitivity of ordinary portables. A three-gang condenser (found only in expensive radios) contributes to razor-edge tuning selectivity. Automatic Volume Control keeps volume uniform on all programs.

Sparkling Tone Quality. You'll get more enjoyment out of your favorite programs because the new 54-inch Dynamic Speaker affords exceptional depth of tone.

Deluxe Case is finished in two-tone brown and tan leatherette. Has a sturdy carrying handle and protective slide-away lid; with leather identification tag. Size is only 14" wide, 10" high, 634" deep. Carrying weight is 16 lbs. Supplied complete with tubes and batteries. For operation from 105-125 volts, 50-60 cycles AC, or 105-125 volts DC or from batteries supplied Chapter at 10 lbs. plied. Shpg. wt., 19 lbs.

D-165. Retail Value. \$44.95 NET PRICE EACH, \$26.75.www.america.





PLAY IT-ENJOY IT ANYWHERE!



6-TUBE 3-WAY PORTABLE

rtainment wherever ably versatile new odel. It's the radio tube (with rectifier) es you won't find in amazingly low price. richly true-toned, il to look at. Here's on-the-go!

omplete radio enterme! Use the **Knight**e, on 105-125 volts,
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nsed. The powerful tes the newest feates the newest fea-engineering labora-in tubes as follows: F; 1A7GT as triple-1H5GT as triple-Audio; 3Q5GT as citifier. You get the ad 8-tube sets with Splendid Radio Reception. Tunes the complete standard Broadcast band from 540 to 1650 KC—powerfully and dependably. Has a big 4-inch square clock-type dial (dual-calibrated in kilocycles and meters) for easy station-logging. Other "expensive-set" features include: a rugged 3-gang tuning condenser for finest selectivity; full Automatic Volume Control for uniform, non-fading volume level; convenient electric current-battery switch.

A Real "Battery Miser." Here's a real economizer! The low-drain tubes give you longer battery life and save you money. The battery pack furnishes 200-250 hours of service before replacement is needed. Here's the kind of portable radio economy you'll like.

"Home Radio" Tone Quality. You'd imagine you were listening to a fine table model home radio receiver when you hear the Knight 6. The big 5½" PM Dynamic speaker easily handles full volume on every type of program, giving you rich, faithful reproduction. You'll admire the tone wherever this portable plays.

Attractive Luggage-Type Case. The Knight 6 resembles a fine piece of expensive luggage. The handsome leatherette-covered carrying case has a rich two-tone brown and tan finish. Has protective drop-front lid and personal leather name tag. Size: 12¾" x 9¾" x 6½". Carrying weight (with batteries), only 15 lbs. For battery operation or for 105-125 volts, 50-60 cycles AC or DC. Complete with tubes and batteries. Shpg. wt., 17 lbs.

D-162. Value, \$34.95.

NET EACH, \$21.95.

NET. LOTS OF 3WWW.campericant



Play It—Enjoy It Out-of-Doors



Knight 5-TUBE PORTABLE

Radio wherever you go—powerful, dependable, enjoyable radio reception when you travel, in camp, on picnics, and in any room at home or in the office. Wonderful three-way operation from batteries, from 110 volts AC, from 110 volts DC—that's what you get, together with a host of worthwhile new features, in this new **Knight 5** Tube (with rectifier) 3-Way Portable Radio—and at the year's lowest price for a quality-built set of this type.

Plays Perfectly Anywhere. The Knight 5 operates with equal efficiency from the self-contained batteries or from 110 volts AC or DC. When there's electric current available, just plug in and play. In the country, just switch to battery power supply. Everything is built in—including a dependable loop aerial.

Splendid Radio Reception. Tunes 540-1630 KC for powerful coverage of the complete standard Broadcast band. The Knight 5 is easy to tune, too—because the big Airplane dial is clearly and legibly calibrated.

Economical Operation. Performance on batteries is just as powerful and enjoyable as when you plug in on electric current, yet battery drain is held down to the minimum. Batteries will give you about 150-200 hours of service before replacement is necessary.

Newest Superhet. Low-drain tubes are employed in Newest Superhet. Low-drain tubes are employed in an RCA licensed Superhet circuit. Uses: 1A7GT as Osc.-Conv.; 1N5GT as I.F.; 1H5GT as Det.-AVC-1st Audio; 1T5GT as Output; 117Z4GT Rectifier. The multi-purpose tubes add to powerful performance. Other value-giving circuit features include: full Automatic Volume Control; an efficient new five-inch Dynamic speaker for finest tone quality; smooth-acting switch for quick shift from battery to AC or DC operation.

Attractive Styling. A handsome luggage-type case you'll be proud to take anywhere. Covered in rich, beautiful two-tone brown and tan leatherette. With carrying handle and personal identification tag. Size: 13*x9½*x5½*. Carrying weight, only 14 lbs. The Knight 5 Tube 3-Way Portable is supplied complete with tubes and batteries in open-face carrying case shown at right above. For operation from 105-125 volts, 50-60 cycles, AC or DC, or from batteries. Shpg. wt., 16 lbs.

D-160, Value \$26.50. NET PRICE EACH, \$17.35. NET, LOTS OF 3, EACH

80-821. Extra Battery Kit, 6 lbs. NET \$2,41

Knight 7-TUBE 2-BAND PORTABLE

Meet the leader! The finest portable radio made—giving you not only powerful 3-Way performance from batteries, AC, or DC, but, in addition, the thrill of 2-Band reception—Short Wave as well as standard Broadcast! Note our low price, too—it's actually lower than what is often asked for 1-band portables.

Three-Way Operation. You can operate the Knight 7 (with rectifier) from its self-contained batteries, from 110 volts AC, from 110 volts DC. All three ways you get splendid radio reception. The Knight 7 is economical, too. The batteries supplied will furnish up to 200 hours of entertainment before replacement.

Everything Built-In. No aerial, no ground, no complicated connections to worry about. The efficient built-in loop aerial picks up programs with fine sensitivity.

2 Band Range. Here's a Portable that tunes more than just the Broadcast band. Covers 5.8-18 MC to bring you the added thrill of Short Wave reception. And, of course, you get strong standard Broadcast reception on the 540-1650 KC range.

New 3-Way Circuit. The cleverly designed RCA and Hazeltine licensed Superhet circuit brings you the latest advances in Portable design. New tube types are used: 1A7, 2—1N5, 1H5, 3Q5, 50L6, 35Z5.

RF Stage on both bands results in many times the sensitivity of ordinary portables. A three-gang condenser (found only in expensive radios) contributes to razor-edge tuning selectivity. Automatic Volume Control keeps volume uniform on all programs.

Sparkling Tone Quality. You'll get more enjoyment out of your favorite programs because the new 54-inch Dynamic Speaker affords exceptional depth of tone.

Deluxe Case is finished in two-tone brown and tan leatherette. Has a sturdy carrying handle and protective slide-away lid; with leather identification tag. Size is only 14" wide, 10" high, 634" deep. Carrying weight is 16 lbs. Supplied complete with tubes and batteries. For operation from 105-125 volts, 50-60 cycles AC, or 105-125 volts DC or from batteries supplied. Shpg. wt., 19 lbs.

D-165. Retail Value, \$44.95 NET PRICE EACH, \$26.75. NET PRICE, LOTS OF 3, EACH.....

80-832. Extra Battery Kit. 9 lbs. NET\$2.77





Illustrated at left, Identical to Model
D-160 described at left, but in deluxe
case with protective drop lid. Case is
handsome two-tone brown and tan
leatherette-covered. Operates from
batteries, AC or DC. Includes builtin loop, AVC, 5° Speaker; latest
Superhet circuit. See description at
left for circuit details. Shipping wt.,
21 lbs. A superb Portable value.

D-161. Value, \$29.95. NET EACH, \$19.45. NET, LOTS OF 3, EACH. . \$1845

NEW 3-WAY PORTABLES



New DELUXE 3-IN-I PORTABLE



PLAY IT-ENJOY IT ANYWHERE!



Play If From Batteries



Play It From AC or DC Outlet

Knight 6-TUBE 3-WAY PORTABLE

Enjoy perfect radio entertainment wherever you go with this remarkably versatile new Knight 3-way Portable model. It's the radio for everyone—a' deluxe 6-tube (with rectifier) Superhet with extra features you won't find in any other portable at our amazingly low price. It's economical to operate, richly true-toned, easy to carry; and beautiful to look at. Here's the best buy for America-on-the-go!

Three-Way Operation. Complete radio entertainment anywhere—anytime! Use the Knight 6 at home or in the office, on 105-125 volts, 50-60 cycles AC or DC. Enjoy equally fine reception in the country, in camps, on trips, anywhere outdoors, from the self-contained battery power supply. From electric current or from batteries—either way—it's just as efficient, just as economical to operate. For extra convenience there's the Loop Aerial—built right into the cabinet for splendid program pickup.

Powerful Tuned R.F., Stage. A wonderful feature—usually found only in the most expensive home radios, the T.R.F. stage of the Knight 6 circuit affords extra selectivity and sensitivity in tuning distant stations. Now you can get dependable performance in remote locations where ordinary portables fail.

RCA and Hazeltine Licensed. The powerful Superhet circuit incorporates the newest features from radio's foremost engineering laboratories. Uses newest low-drain tubes as follows: 1N5GT as RF; 1N5GT as IF; 1A7GT as triple-purpose Conv.-Osc.-Det.; 1H5GT as triple-purpose 2nd Det.-AVC-1st Audio; 3Q5GT as Power Output; 35Z5GT Rectifier. You get the performance of many 7- and 8-tube sets with the multi-purpose tubes used in the Knight 6. Every tube employed contributes to better, more powerful reception with greater economy.

Splendid Radio Reception. Tunes the complete standard Broadcast band from 540 to 1650 KC—powerfully and dependably. Has a big 4-inch square clock-type dial (dual-calibrated in kilocycles and meters) for easy station-logging. Other "expensive-set" features include: a rugged 3-gang tuning condenser for finest selectivity; full Automatic Volume Control for—uniform, non-fading volume level; convenient electric current-battery switch.

A Real "Battery Miser." Here's a real economizer! The low-drain tubes give you longer battery life and save you money. The battery pack furnishes 200-250 hours of service before replacement is needed. Here's the kind of portable radio economy you'll like.

"Home Radio" Tone Quality. You'd imagine you were listening to a fine table model home radio receiver when you hear the Knight 6. The big 5½" PM Dynamic speaker easily handles full volume on every type of program, giving you rich, faithful reproduction. You'll admire the tone wherever this portable plays.

Attractive Luggage-Type Case. The Knight 6 resembles a fine piece of expensive luggage. The handsome leatherette-covered carrying case has a rich two-tone brown and tan finish. Has protective drop-front lid and personal leather name tag. Size: 12¾″ x 9¾″ x 6½″. Carrying weight (with batteries), only 15 lbs. For battery operation or for 105-125 volts, 50-60 cycles AC or DC. Complete with tubes and batteries. Shpg. wt., 17 lbs.

D-162. Value, \$34.95.

NET EACH, \$21.95. NET, LOTS OF 3, EACH

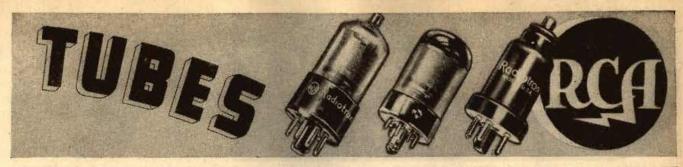
\$2085



Play It—Enjoy It Out-of-Doors



Play It Indoors Have Fun Anywhere



	Stock No.	List		EACH	Tuna	Stock No.	List		EACH	Type	Stock No.	List		EACH
Туре		and the same	1-14	15-UP	Туре			1-14	15-UP	Туре	1	7000	1-14	15-UP
12J5GT	6-244			\$0.47	*25L6	6-285			\$0.77	50			\$1.24	
12J7GT	6-245		.57	.52	25L6G_	6-286	1.25	.67	.62	50L6GT	6-326	1.05 1.05	.57	,52 ,52
12K7GT	6-246	.95	.51	.47	25L6GT	6-287	1.05	.57	.52	50Y6GT	6-328	1.25	.67	.62
12K8	6-247	1.55	.84	.77	25N6G 25Y5	6-288	2.30	1.24		50Z7G 53	6-320	1.55	.84	.77
12Q7GT *12SA7	6-249	.85	.46	.42	25Z5	6-289	.95	.51	.47	55	6-331	1,05	.57	.52
12SA7GT	6-251	1.25	.51 .67	.62		100000000000000000000000000000000000000			711577.4	56	6-332	.75	,40	.37
12SC7	6-252	1.25	.67	.62	*25Z6	6-291	1.25	.67	.62	57	6-333	.85	.46	
12SF5	6-253	1.05	.57	.52	25Z6G	6-292	.95	.51	.47	58	6-334	.85	.46	.42
12SF5GT	6-254	1.05	.57	.52	25Z6GT 26	6-293 6-294	.70	.51	.47	59	6-335			
12SF7	6-255		.67	.62	27	6-295	.65	.35		70L7GT	6-337	1.90	1.03	.95
125G7	6-256		.67	.62	30	6-296	.95	.51		71A	6-338	.85	.46	
125J7	6-257	1.05	57	52	31	6-297	.95	.51		75	6-339		.43	.40
12SJ7GT	6-258		.57	.52	32	6-298	1.25	.67		76	6-340		.46	
*125K7	6-259	.95	.51	47	32L7GT	6-299		1.03		77	6-341		.46	
12SK7GT	6-260			.52	33	6-300		.67		78	6-342	.85	.46	
12SN7GT	6-261	1.25	.67	.62	The second second second second	6-301	-		.62	79	6-343	1.55	.84	.77
*12507	6-262	.95		.47	34 35	6-301	1.25	.67 .51		80	6-344	.65	.35	.32
12507GT	6-263			.52	135A5(LT)	6-303		.67		81	6-345		1.03	
*12SR7	6-264	1,25	.67	.62	35L6GT	6-304	.95	.51	47	82	6-346			
12Z3	6-265	.95	.51	.47	†35Z3(LT)	6-305		.67		83	6-347			
14A7/12B7	6-266	1.90	1.03	.95	35Z4GT	6-306		.40		83V	6-348		1.03	
15	6-268				35Z5GT	6-307	.80	.43		84/6Z4	6-349	1.05	.57	.52
*1851	6-269		2,10		36	6-309		.51		85	6-350			
19	6-270	1.25		.62	37	6-310		.43		89	6-351	.95	.51	.47
20	6-271	2.80		1.40	38	6-311	1.05	.57		112A	6-355	.95	.51	.47
22	6-272	2.30	1.24	1.15	39/44	6-312	.95	.51	.47	117L7GT	6-356			
24A	6-273	.85			40	6-313	1.55	.84	.77	117N7G1				
*25A6	6-274	1.90			41	6-314				117P7GT	6-358	2.30	1.24	1.15
25A6G	6-275			.52	42	6-315				117Z6GT	6-359			
25A6GT	6-276			.52	43	6-316		.57	.52	183/483	6-360			
25A7G	6-277				45	6-317	.75	.40	.37	485	6-361			
25A7GT	6-278				‡45Z3	6-318		.57		874	6-817		1.50	
25AC5GT	6-280				45Z5GT	6-319				884	6-813		2.00	
25B5	6-281			1.15	46	6-320				885	6-814		2.00	
25B6G	6-282				47	6-321				886	6-365	2.80	1.51	1.40
25B8GT	6-283				48	6-322		1.51		VOLTAG	E DEC	AIII	TOP 1	IIRES
25C6G	6-284	1.90	1.03	.95	49	6-323	1.25	.67	.62	CTOLIAG	- ME	OF COA	JOK I	OBE2

* Indicates Metal Type.

† Indicates Loktal Type.

Miniature Type. 6-536. Type VR105/30. EACH \$1.25

BOOST YOUR PROFITS WITH THESE RCA SALES AIDS



Advertise—let your customers know you stock the preferred RCA Tubes. With your very next tube order ask for your FREE copy of the RCA Sales Aid Catalog. Shows all the materials available and tells you how to secure them. Ask for RCA Sales Aid Catalog 37-055.

Fig. A. RCA Service Engineer's Pencil. Barrel has standard resistor color-code guide. Non-metallic screwdriver beneath the cap. FREE with order for 90 RCA tubes, or sold separately. Shpg. wt., 6 oz. \$1.85

Three-color Pencil. Automatically changes to color lead desired. Resistor color code guide on barrel. FREE with order for 115 RCA tubes. Sold separately. \$2.35

Fig. C. Decalcomania. An attractive three-color decalcomania transfer sticker for window of your store or car. FREE with order for RCA tubes. Ask for 37-056.

Fig. D. Price Cards. Shows prices for all RCA tubes. Also includes complete interchangeable tabulation for obsolete types and brands. FREE with order for RCA tubes. Ask for 37-057.

Fig. E. Dummy Carton. Exact duplicates in color and size of the famous RCA Radiotron sealed tube carton. 25 of these cartons are offered FREE with your order for 10 RCA tubes. Ask for 37-058.

Fig. E. Giant Illuminated Carton. Add brilliance to your window or counter display. Giant 18" carton is exact replica in red and black of the famous RCA Radiotron Sealed Tube Carton. Mounted on heavy black 8½" square base. Translucent sides brilliantly illuminated by 60 watt lamp which is included. With your next order for 75 RCA Tubes, ask for your FREE Giant Illuminated Carton. Also sold separately. Wt., 8 lbs. \$1.50

Fig. G. Tube Test Stickers. Roll of 2000, 1¼" x ½". Imprinted with your name, address, and city. Records condition of tubes for future reference. Space provided for condition of tube, date sold or date tested. Processed to prevent charring. Your next order for 50 RCA Radiotron Tubes entitles you to FREE roll of Tube Test Stickers. Also sold separately. Wt., I lb. 37-577. NET.

RCA PUBLICATIONS TUBE MANUAL

RC-14. A new, revised manual containing full technical specifications for RCA receiving tubes. Brought up to the minute to cover the very latest tube types. Includes circuit diagrams, a concise discussion of vacuum tube theory and applications, as special section on resistance-coupled amplifier operating conditions, and other technical information. Invaluable to radio servicemen and experimenters. This important book should be in your radio library. 225 pages. Free with order for 25 RCA tubes. Wt., 1 lb. 25c

CHARACTERISTICS CHART

A handy chart in pamphlet form. Shows the electrical characteristics and pin arrangement of all RCA receiving tabes. Starts with the earliest type 00-A, and covers all tubes manufactured since then. This characteristics chart is the latest edition.



37-059. FREE with order for RCA tubes.

SERVICEMAN'S CASE

Compact, sturdy case for carrying tools, tubes, wire, parts, etc. Designed to hold pliers and screwdrivers on inside of lid. Compartment for soldering iron and heavy tools. A really invaluable piece of serviceman's equipment that you can get without cost because it's FREE with purchase of 200 RCA tubes. Also sold separately. Wt., 5 lbs. 78-102.

RAYTHEON RADIO TUBES



THE COMPLETE QUALITY LINE

RAYTHEON is the famous quality line of tubes—built by the largest exclusive tube manufacturer n the world. RAYTHEON is the complete line of tubes—offering an efficiently engineered, carefully constructed receiving type tube for every purpose. The Raytheon lineludes standard glass, all-metal, octal glass, GT type, loktal, resistance tubes; and panel bulbs. ALLIED regularly carries huge, fresh stocks of the complete Raytheon line, and is ready to provide you with instant service; all new types are added to our stock as soon as they are released.

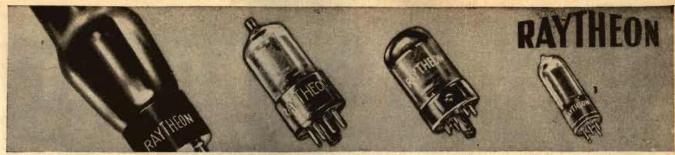
37-115. Latest Raytheon Data Chart—FREE on Request.

GUARANTEED FOR SIX MONTHS

Every Raytheon tube is fully guaranteed against any electrical or mechanical defect for a period of six months from date of purchase. We will immediately replace any tube that does not give you completely efficient and satisfactory performance. (This offer, of course, does not apply to burned-out or broken tubes.) Note our attractive extra discount in the listings on these two pages for tubes purchased in quantities of 15 or more. This discount applies whether you order Raytheon tubes of one type or of assorted types, Build up your order to 15 or more tubes for bigger savings. Shpg. wt.: I tube—8 oz.; additional tubes, 4 oz. each.

Time	Stock	List	NET	EACH	Туре	Stock	List	NET	EACH	Tune	Stock	List	NET	EACH
Туре	No.	List	1-14	15-UP	Туре	No.	List	1-14	15-UP	Туре	No.	LIST	1-14	15-UP
00A 01A 0A4G *0Z4 0Z4G 1A4P 1A4T 1A5GT/G	4-000 4-001 4-002 4-003 4-004 4-005 4-006 4-008 4-009 4-010	1.55 1.05 1.25	.46 1.03 .84 .84 .84 .57	\$1.15 .42 .95 .77 .77 .77 .77 .52 .62	3A8GT 3Q5GT/G ‡3S4 4A6G *5T4 5U4G 5V4G *5W4 5W4GT/G 5X4G	4-068 4-070 4-071 4-072 4-073 4-074 4-075 4-076 4-077 4-078	\$2.30 1.55 1.55 2.15 1.90 .95 1.55 1.05	\$1.24 .84 .84 1.16 1.03 .51 .84 .57	.77 .77 1.07 .95 .47 .77 .52	*6H6 6H6G 6H6GT *6J5 6J5GT/G *6J7 6J7GT 6J7GT 6J8G	4-135 4-136 4-137 4-138 4-140 4-141 4-142 4-143 4-144	\$1.05 1.05 1.05 .85 .85 1.25 1.05 1.05	\$0.57 .57 .57 .46 .46 .67 .57 .57	\$0.52 .52 .52 .42 .42 .62 .52 .52
1A7G 1A7GT 1B4/951 1B5/25S 1B7G 1C5G 1C5GT	4-011 4-012 4-013 4-014 4-016 4-017	1.25 1.25 1.25 1.55	.84 .67 .67 .67 .67 .84	.62 .62 .62 .62 .77	573G 574G 574G 5Z3 *5Z4 6A3 6A4/LA	4-079 4-080 4-081 4-082 4-083 4-084	1.05 .70 1.05 1.25	.57 .35 .38 .57 .67	.52 .32 .35 .52 .62	6K5G 6K6GT/G *6K7 6K7G 6K7GT *6K8	4-145 4-147 4-148 4-149 4-150 4-151 4-152	1.05 .95 1.05 1.05 .95 1.25 1.25	.57 .51 .57 .57 .51 .67	.52 .47 .52 .52 .47 .62
1C6 1C7G 1D5GP 1D5GT 1D7G 1D8GT	4-018 4-019 4-020 4-021 4-022 4-023	1.25 1.25 1.25 1.25 1.55	.67 .67 .67 .67 .84 1.03	.62 .62 .62 .62 .77	6A5G 6A6 6A7 *6A8 6A8G	4-085 4-086 4-087 4-089 4-090	2.80 1.55 .95 1.25 .95	.84 1.51 .84 .51 .67 .51	1.40 .77 .47 .62 .47	6K8G1 6L5G *6L6 6L6G *6L7 6L7G	4-153 4-154 4-155 4-156 4-157 4-158	1.25 1.90 1.90 1.55 1.55	.67 1.03 1.03 .84 .84	.62 .52 .95 .95
1E4G 1E5GP 1E7G 1F4 1F5G 1F6 1F7GH	4-024 4-025 4-026 4-027 4-028 4-029 4-030	1.25 1.25 1.55	.67 .84 1.24 .67 .67 .84	.62 .77 1.15 .62 .62 .77	6AB5/ 6N5 *6AB7/ 1853 6AC5G 6AC5GT *6AC7/	4-092 4-093 4-094 4-095 4-096	1.55 1.90 1.25 1.05	.84 1.03 .67 .57	.77 .95 .62 .52	6N6G *6N7 6N7G 6P5G 6P5GT 6P7G	4-160 4-161 4-162 4-163 4-164 4-165	2.30 1.55 1.55 2.30 .75 2.30	.84 .84 .84 .43 .40	.77 1.15 .77 .77 .40 .37 1.15
1G4G 1G4GT 1G5G 1G6G 1G6GT 1H4G	4-031 4-032 4-033 4-034 4-035 4-036	1.25 1.05 1.25 1.55 1.55	.67 .57 .67 .84 .84	.62 .52 .62 .77 .77	1852 6AD6G 6AD7G 6AE5G 6AE5GT 6AE6G	4-097 4-098 4-099 4-100 4-101	1.25	1.24 .84 .84 .89 .67	1.15 .77 .77 .82 .62 .62	*607 607G 607GT *6R7 6R7G 6R7GT *6S7	4-166 4-167 4-168 4-169 4-170 4-171 4-172	1.25 .85 .85 1.55 1.05 .85 1.55	.67 .46 .46 .84 .57 .46	.62 .42 .42 .77 .52 .42 .77
1H5G 1H5GT 1H6G 1J5G 1J6G	4-037 4-038 4-039 4-040 4-041	1.05 1.25 1.90 1.25	.67 .57 .67 1.03 .67	.62 .52 .62 .95 .62	6AE7GT 6AF5G 6AF6G *6AG7 6AL6G	4-102 4-103 4-104 4-105 4-106	1.25 1.55 2.30	.67 .67 .84 1.24 3.67	.62 .62 .77 1.15 3.40	*6SA7 6SA7GT/G *6SC7 6SC7GT *6SF5	4-173 4-174 4-175 4-176 4-177 4-178	.95 1.05 1.25 1.25	.84 .51 .57 .67 .67	.47 .52 .62
†1LA4 †1LA6 †1LB4 †1LH5 †1N5G 1N5GT	4-042 4-043 4-044 4-045 4-046 4-047 4-048	2.30 2.30 2.30 2.30 1.55 1.25	1.24 1.24 1.24 1.24 1.24 .84 .67	1.15 1.15 1.15 1.15 1.15 .77 .62	684G 685 686G 687 *688 688G *6C5	4-108 4-109 4-110 4-112 4-113 4-114	1.90 1.05 1.25 1.90 1.25 1.05	1.03 1.03 .57 .67 1.03 .67 .57	.95 .95 .52 .62 .95 .62	6SF5GT *6SJ7 6SJ7GT *6SK7 6SK7GT/G	4-179 4-182 4-183 4-184 4-185	.95 1.05 1.05 .95 1.05	.51 .57 .57 .51 .57	.47 .47 .52 .52 .47 .52
1N6G 1P5GT 1Q5GT/G 11R5 11S4	4-049 4-050 4-052 4-053 4-054	1.55 1.55 1.55 1.55	.67 .84 .84 .84	.62 .77 .77	605G 605GT 606 608G	4-115 4-116 4-117 4-119 4-120		.51 .51 .84	.47 .47 .47 .77	*6SQ7 6SQ7GT/G *6SR7 6T5 6T7G/ 6Q6G	4-189 4-191 4-192	1.05 1.25	.57 .57 .67	.62
155 1T4 1T5GT 1V	4-055 4-056 4-057 4-058	1.55 1.55 1.55 .95	.84 .84 .84		6D8G 6E5 6E6 *6F5 6F5G 6F5GT	4-122 4-123 4-124 4-126 4-127 4-128	1.05 1.90 1.05 1.05	.57 1.03 .57 .57	.52 .95 .52	6U5/6G5 6U6GT 6U7G *6V6 6V6GT/G	4-193 4-194 4-195 4-196 4-198	1.25 .95	1.03	.95
2A4G 2A5 2A6 2A7 2B7	4-060 4-061 4-062 4-063 4-064	2.30 .95 .95 1.05 1.25	1.24 .51 .51 .57	1.15 .47 .47 .52 .62	*6F6 6F6G 6F7 6F8G	4-129 4-130 4-131 4-132	1.05 .85 1.55	.57 .46 .84	.52 .42 .77	6V7G 6W5G 6W7G 6X5 6X5GT/G	4-199 4-200 4-201 4-202 4-204	1.25 1.90 1.55 1.55	.67 1.03 .84 .84	.62 .95 .77 .77
2E5 2X2/879	4-065	2.30	1.24		6G6G 6H4GT	4-133	1.90	1.03	.95	6Y6G 6Y7G		1.55	.8.4	.77

*—Indicates Metal Tube. †—Indicates Loktal Tube. †—Indicates Miniature Tube. G—Indicates Glass Octal. GT/G—Indicates Bantam Octal; Replaces Equivalent G or GT Types.



			Ki						
Туре	Stock No.	List	NET		Туре	Stock No.	List	NET	EACH
677.0			1-14	15-UP	051.007.0	97.00	64.05	1-14	15-UP
6Z7G 6ZY5G	4-209		\$1.03 .67	\$0.95 .62	25L6GT/G 25Y5	4-287	\$1.05 2.30	\$0.57 1.24	\$0.52 1.15
†7A4	4-211	1.25	.67	.62	25Z5 *25Z6	4-290	.95 1.25	.51 .67	.62
†7A5	4-212	1.25	.67	.62	25Z6GT/G	4-293	.95	.51	.47
†7A6 †7A7	4-213		.67 .67	.62 .62	26 27	4-294 4-295	.70 .65	.38	.35
†7A8	4-215	1.25	.67	.62	30	4-296	.95	.51	.47
†784 †785	4-216	1.25	.67 .67	.62	31 32	4-297 4-298	.95 1,25	.51 .67	.47
†7B6 †7B7	4-218		.67 .67	.62 .62	32L7GT	4-299	1.90	1.03	.95
†7B8	4-220		.67	.62	33 34	4-300	1.25 1.25	.67 .67	.62
†7C5	4-221	1.25	.67	.62	35/51	4-302 4-303	.95	.51	.62
†7C6	4-222	1.25	.67	.62	†35A5 35L6GT/		1.25	.67	.62
†7C7 †7E6	4-224	1.25	.67 .67	.62	G †35Z3	4-304	.95 1,25	.51 .67	.62
†7E7 †7F7	4-225		.84 .84	77	35Z4GT	4-306	.75	.40	.37
†7G7/		400	1.03	- Carlo	35Z5GT/	4-307	310	100	-
1232 †7H7	4-227		1.03	.95 .95	35Z6G	4-308	.80 1.25	.43 .67	.40 .62
737	4-229	1.90	1.03	.95	36 37	4-309	.95 .80	.51 .43	.47
†7L7	4-230		1.03		38	4-311	1.05	.57	.52
7N7 7Q7	4-231		1.03	.95 .62	39/44	4-312	.95	.51	.47
†7R7	4-233	1.90	1.03	.95	40	4-313 4-314	1.55 .80	.84	.77
†7Y4 10	4-234	2.80	.67 1.51	1.40	42 43	4-315	.80 1.05	.43 .57	.40 .52
12A 12A5	4-236		.51 1.24	1.15	45	4-317	.75	.40	.37
12A7	4-238		1.03		45Z5GT 46	4-319	1.05 1.05	.57 .57	.52
12ASGT	4-239	.95	.51	.47	47 48	4-321	1.05 2.80	.57 1.51	1.40
12B8GT	4-240	1.55	.84	.77	49	4-323	1.25	.67	.62
*12C8 12F5GT	4-241	.95	1.03 .51	.47	50	4-324	2.30	1.24	1.15
12J5GT 12J7GT	4-244	.95	.51 .57	.47	50C6G 50L6GT	4-325	1.90 1.05	1.03 .57	.95
12K7GT	4-246	.95	.51	.47	50Y6GT/	4-327	1.05	.57	,52
12K8GT 12Q7GT	4-248		.67		50Z7G	4-328	1.25	.67	.62
*12SA7	4-250	.95	.51	.47	52 53	4-329 4-330	2.80 1.55	1.51 .84	1.40
12SA7GT/G	4-251		.67	.62	55 56	4-331	1.05 .75	.57 .40	.52 .37
*12SC7 *12SF5	4-252		.67 .57		57	4-333	.85	.46	.42
12SF5GT		1.05	,57	.52	58 59	4-334 4-335	.85 1.55	.46 .84	.42
*125J7 125J7GT	4-258	1.05	.57	.52	70A7GT	4-336	2.30	1.24	1.15
*125K7 125K7GT/G	4-259		.51	.47	70L7GT	4-337 4-338	1.90 .85	1.03 .46	.95
*12SQ7 12SQ7GT/G	4-262	.95	.51	.47	75 76	4-339 4-340	.80 .85	.43 .46	.40
123Q141/4	4-263	1.05	- Neonas		77	4-341	.85	.46	.42
*125R7 12Z3	4-264			.62 .47	78 79	4-342	.85 1.55	.46 .84	
†14A7/	1				80	4-344	.65	.35	.32
12B7 †14H7	4-266	1.90	1.03		81 82	4-345 4-346	1.90 1.25	1.03 .67	.62
15 19	4-268	1.90	1.03	.95	83 83V	4-347	1.25	.67 1.03	.62 .95
20	4-271	2.80	1.51	1.40	84/6Z4	4-349	1.05	.57	.52
22 24A	4-272			1.15	85 89	4-350 4-351	.85 .95	.46 .51	.47
25		1			V99 X99	4-352 4-353	2.80 2.80	1.51 1.51	1.40
*25A6 25A6G	4-274	1.05	.57	.52	117L7GT/				
25A6GT 25A7G	4-276		.57	.52	117M7GT	4-356	2.30	1.24	1.15
25A7GT	4-278	1.55	.84	.77	117Z6GT	4-359 4-813		.84	.77
25AC5G 25AC5GT		1.55	.84	.77	884 885	4-814		2.00	2.00
2586G 2588GT	4-282		1.03	.95	950 *1851	4-366	1.90	2.10	.95 2.10
25C6G	4-284	1.90	1.03	.95	XXD	4-370	1.55	.84	.77
*25L6	4-285	1.55	.84	.77	XXL	4-371	1.55	.84	-11

*-Metal Tube.

†-Loktal Tube.

GT/G-Bantam Octal; Replaces Equivalent GT or G Types.

G Glass Octal.

SPECIAL SOUND TUBES

Precision constructed tubes selected for Amplifier Equipment. Reduce hum, microphonics and noise pickup in high gain amplifier circuits.

Туре	Stock No.	List		EACH 15-UP
SS-5U4G	4-500	\$1.25	\$0.67	\$0.62
SS-5V4G	4-501	1.90	1.03	.95
SS-SY3G	4-502	.95	.51	.47
SS-6C5G	4-503	1.25	.67	.62
SS-6C8G	4-504	1.90	1.03	.95
SS-6F6G	4-505	1.05	.57	.52
SS-6F8G	4-506	1.55	.84	.77
SS-6J7G	4-507	1.25	.67	.62
SS-6J7GT	4-508	1.25	.67	.62
SS-6K6G	4-509	1.25	.67	.62
SS-6L6G	4-510	2.30	1.24	1.15
SS-6L7G	4-511	1.90	1.03	
SS-6N6G	4-512	2.80	1.51	1.40
SS-6N7G	4-513	1.90	1.03	.95
SS-6V6G	4-514	1.55	.84	.77
SS-6X5G	4-515	1.25	.67	.62
SS-83	4-516	1.55	.84	.77

SPARTON TUBES

					-	
1029/4020	A 769	21 00	4	03	20	OF
1070/4070	4-302	31.30	DT	.03	PU.	
193/493	4-760	1 00	4	03	CONTRACT H	0 5
182B/482B 183/483 485	4-300	1.70	-	.03		
485	4-361	1 90	4	03	100	0 5
700	4-207	2.30	-	.03		8.3

SPECIAL GASEOUS RECTIFIERS

BA	4-525	\$6.55	\$3.54	\$3.27
BH	4-526	3.70	2.00	1.85
BR	4-527	2.70	\$3.54 2.00 1.46	1.35

VOLTAGE REGULATORS

VR90-30	4-535	\$2.30	\$1.24	\$1.15
VR90-30 VR105-30	4-536	2.30	1.24	1.15
VR150-30	4-537	2.30	1.24	1.15

RAYTHEON RESISTANCE TUBES

Туре	No.	Туре	No.	Туре	No.
*1A1	4-550	BK49C	4-560	L55D	4-570
*1B1	4-551	K49D		M73B	4-571
42A	4-552	149B	4-562	165R	4-572
K42B	4-553	L49C	4-563	165R4	4-573
BK42B	4-554	L49D	4-564	185R	4-574
L42B	4-555	K55B	4-565	185R4	4-575
L42C	4-556	K55C	4-566	185 R8	4-576
49A	4-557	K55D	4-567	NB2	4-577
K49B	4-558	L55B	4-568	NB8	4-578
K49C	4-559	1.55C	4-569		

List, 85c. Lots	of 15,	EACH.	.42c	46c
These two typ	es list	at \$1.25		670

RAYTHEON PANEL BULBS

No.	Type	Volts	Amps.	EA.	10 FOR
52-705	R40	6-8	.15	. 9c	\$0.54
	R40A*	6-8	.15	9c	.54
52-706		2.5	.50	9c	.54
52-707		3.2	.50	12c	.71
52-708	R43*	2.5	.50	9c	.54
52-709	R44*	6-8	.25	9c	.54
52-710	R45*	3.2	.50	12c	.71
52-711	R46	6-8	.25	9c	.54
52-713	R48	2.0	.06	15c	.88
52-714	R49*	2.0	06	15c	.88
52-738	R49A*	2.1	.12	18c	1.06
52-715	R50+	6-8	.20	10c	.59
	R292	2.9	.17	12c	.71
52-743	R292A*	2.9	.17	12c	.71
	AUT	TOMO	IVE TY	PES	
E2-710	DELLA	1 6 0	1 20	7-	1 24

52-716 | R51†* | 6-8 | .20 | 7C | .41 | 52-720 | R55†* | 6-8 | .40 | 7C | .41 | *Miniature bayonet base; all others screw base. †Small round bulb.

HEARING-AID TUBES

Miniature tubes, 1% high by .550 dia. Fil. Voltage 1.25 at .033 amps. †Metal Shell Base, 5 prong. Fits Amphenol socket below. *Standard Octal. Removable Base. Leads in glass envelope may be wired into circuit.

Press CITA	Crobe n	ady De will	THE C	ii cuit.
Typet	No.	Type* CK501X	No.	EACH
CK501	4-585	CK501X	4-590	
CK502	4-586	CK502X	4-591	\$3.00
CK503	4-587	CK503X	4-592	3.00
CK504	4-588	CK504X	4-593	
CKEDE	1-E90	CKEREY	A-59A	



KNIGHT FAMOUS FOR

NO FINER TUBES MADE

Knight Radio Tubes are RCA Licensed, embodying latest developments in vacuum tube design. Knight tubes are unsurpassed for dependable construction, superior performance and long life—low priced to undersell competition. Knight tubes are factory-tested; encased in attractive tamper-proof cartons. The Knight line includes octal base, miniature, all-glass, all-metal, and GT octal base types. For greater economy buy Knight tubes in quantities of 15 or more.

GUARANTEED FOR SIX MONTHS

Knight tubes are guaranteed against electrical or mechanical defect for six months. Knight tubes must give you complete satisfaction and efficient performance! We will promptly replace any tube that does not operate properly. (Burned-out or broken tubes are not replaceable.) This line guarantee helps sell more Knight tubes, assures customer satisfaction. For larger savings buy Knight tubes in quantities of 15 or more. Av. shpg. wt.: 1 tube—8 oz.; additional tubes, 4 oz. each.

	Stock		NET	EACH	T. 38.	Stock	1 104	NET	EACH	Tuesday.	Stock	1 1-4	NET	EACH
Туре	No.	List	1-14	15-UP	Туре	No.	List	1-14	15-UP	Туре	No.	List	1-14	15-UF
DA4G		\$1.90	\$0.84		1T5GT				\$0.62	6D6			\$0.41	
0Z4	9-003	1.55	.64	.58	1V	9-058	.95	.43	.39	6D8G	9-122	1.55	.69	.6:
OZ4G	9-004	1.55	.64	.58	2A3	9-059	1.90			6E5	9-123	1.05	.48	.4:
LA4P	9-005	1.55	.69	.62	2A4G	9-060	2.80		.99	*6F5	9-126	1.05	.48	.4:
LA5G	9-007	1.55	.48	.43	2A5	9-061	.95	.43	.39	6F5G	9-127	1.05	.48	.4:
LA6	9-009	1.25	.58	.52	2A6	9-062	.95		.39	6F5GT	9-128	.95	.43	.39
LA7G_	9-010	1.55	.62	.56	2A7	9-063	1.05	.48	.43	*6F6	9-129	1.05	.48	.4
LA7GT	9-011	1.25	.58	.52	2X2/879	9-067	2.30	1.01	.91	6F6G	9-130	.85	.39	.3
B4P	9-012	1.25	.56	.50	3A8GT	9-068			.91	6F7	9-131	1.55	.69	.6
B5/25S	9-013	1.25	.58	.52	3Q5GT	9-070	1.55	.69	.62	6F8G	9-132	1.25	.58	.5
LB7GT	9-015	1.25	.58	.52	‡354	9-071	1.55	.69	.62	6G6G	9-133	1.25	.58	.5
C5GT/G	9-017	1.25	.58	.52	5U4G	9-074	.95	.43	.39	*6H6	9-135	1.05	.48	.4
LC6	9-018	1.25	.58	.52	5V4G	9-075	1.55	.69	.62	6H6G	9-136	1.05	.48	.4
C7G	9-019	1.25	.58	.52	*5W4	9-076	1.05	.48	.43	6H6GT	9-137	1.05	.48	.4
D5GP	9-020	1.25	.58	.52	5W4GT	9-077	.85	.39	.35	*6J5	9-138	.85	.39	.3
D7G	9-022	1.55	.69	.62	5Y3G	9-079	.65	.30	.27	6J5G	9-139	.95	.43	.3
DSGT	9-023	1.90	.86	.78	5Y4G **	9-080	.70	.32	.29	6J5GT	9-140	.85	.39	.3
E7G	9-026	2.30	1.01	.91	5Z3	9-081	1.05	.44	.40	*6J7	9-141	1.25	.56	.5
F4	9-027	1.25	.58	.52	*5Z4	9-082	1.25	.58	.52	6J7G	9-142	1.05	.48	.4
F5G	9-028	1.25	.58	.52	6A3	9-083	1.90	.85	.77	6J7GT	9-143	1.05	.48	.4
F6	9-029	1.55	.69	.62	6A6	9-086	1.55	.69	.62	618G	9-144	1.55	.69	.6
LF7GV	9-030	1.55	.69	.62	6A7	9-087	.95	.43	.39	_ 3025 200 200 200			111	-
G4G	9-031	1.25	.58	.52	*6A8	9-089	1.25	.58	.52	6K5G	9-145	1.05	.48	.4
GGG	9-034	1.55	.69	.62	6A8G	9-090	.95	.41	.37	6K6G	9-146	1.05	.48	.4
H4G	9-036	.95	.41	.37	6ABGT	9-091	.95		.39	6K6GT	9-147	.95	.40	.3
H5G	9-037	1.25	.53	.48	6AB5/6N5	9-092			.53	*6K7	9-148	1.05	.48	.4
H5GT	9-038	1.05	.48	.43	*6AB7/1853	9-093			.64	6K7G	9-149	1.05	.48	.4
H6G	9-039	1.25	.58	.52	6AC5G	9-094	1.25		.47	6K7GT	9-150	.95	.41	.3
Jee	9-041	1.25	.58	.52	6AC5GT	9-095		.52	.47	*6K8	9-151	1.25	.58	.5
LA4	9-042	2.30	1.01	.91	*6AC7/1852	9-096			.91	6K8GT	9-153	1.25	.58	.5
LAG	9-043	2.30	1.01	.91	6AESGT	9-100		.58	.52	6L5G	9-154	1.05	.48	.4
LB4	9-044	2.30	1.01	.91	6AF6G	9-104			.60	*6L6	9-155	1.90	.84	.7
LH4	9-045	2.30	1.01	.91	684G	9-107	1.90		.77	6L6G	9-156	1.90	.84	.7
	9-046	2.30	1.01	.91	6B5	9-108			:77	*6L7	9-157	1.55	.69	.6
LN5	9-047	1.55	.62	.56	6B7	9-110		.58	.52	6L7G	9-158	1.55	.69	.6
N5G N5GT	9-048	1.25	.58	.52	*6B8	9-112	1.90	.84	.76	*6N7	9-161	1.55	.69	.6
PSGT	9-048	1.55	.69	.62	6B8G	9-113		.58	.52	6N7G	9-162	1.55	.69	.6
PSGI	9-052	1.55	.69	.62	*605	9-114	1.05	.48	.43	6P5GT	9-164	.75	.37	.3
Q5GT	9-052	1.55			6C5G	9-114	.95	.43	.39	*6Q7	9-166	1,25	.58	.5
R5		1.55	.62	.56	6C5GT	9-116			.41	607G	9-167	Annual State of the Owner, where the owner, which is the owner, which is the owner, where the owner, which is the owner, where the	.39	F about the second
54	9-054		.69	.62	606	9-117	.95		.39	607GT	9-163	.85		
LSS		1.55	.62	.56	6C8G	9-119				*6R7	9-169	.85	.37	.3
174	9-056	1,55	.62	.56	OUBU	3-113	T'22	.09	.02	ONI	3-703	1.55	.64	.5

*Metal Type. †Loktal Type. G-Octal Glass Type. GT-Small Octal Glass Type. ‡Miniature Type.



NET EACH 35c ots of 1

LOTS OF 15
ASSORTED
EACH
31c

"KNIGHT" BALLAST RESISTORS

Exact duplicate, top-notch quality metal shell ballast tubes for replacement in AC-DC sets. Identical to originals in electrical characteristics and base connections. Will operate efficiently by maintaining normal voltage across primary of power transformer within allowable limits. Requires no rewiring; simply remove old defective ballast tubes and replace with proper Knight Preferred Ballast. Types are listed numerically and cover those most commonly used. Low prices mean extra Profits to Dealers. Av. shpg. wt., 1 tube—8 oz.; additional tubes, 4 oz. each.

*These tubes have glass envelopes.

No.	Туре	Replaces	No.	Туре	Replaces
9-800	K23B	BK23B	9-820	K55CP	K55CP, K55CPR
9-801	K36B	BK36B	9-821	L55B	2VR-215, BL55B, L55BG
9-802	K42B	BK42B, K42BG	9-822	L55C	L55, 5.5C
9-803	K42C	BK42C, 95K2	9-823	1.55S1	1,5551
9-804	K42D	BK42D	9-824	1,5552	1,5552
9-805	1.428	L42B, BL42B, L42BG	9-825	M55B	BM55B
9-806	1.42C	L40C, 69-2037, BL42C	9-826	K70B	K70B
9-807	M42B	BM42B, M42BG	9-827	K74B	K72B, K73B
9-808	KZ49B	50B2, 50B2MG	9-828	K74C	K74C, K72C, K73C
9-809	K49B	BK49B, W-43357, 135K1	9-829	K80B	K79B, K78B
9-810	KZ49C	50A2MG	9-830	K87B	K90B, K86B
9-811	K49C	BK49C, K49CB	9-831	K92B	K90B, K85B
	K49D	BK49D, 334A		*100-70	100-70
9-812					
9-813	L49B	2UR224, 69, 2033, L49BG	9-833		100-77
9-814	L49C	L49-5.5C	9-834		K105A
9-815	L49CJ	100-37 (Glass or metal)	9-835		165R4
9-816	L49D	3CR-241	9-836		200R
9-817	M49B	8593; BM 49B, M49BG		*250R	250R
9-818	K55B	BK55B, 3613, 55KB	9-838	#320R4	320R4
0.810	15556	ESSC BESSC ESSCC	The sales of	Contract of the same	

JFD ADJUSTABLE BALLAST KIT



Handy kit of adjustable AC-DC ballasts designed to replace more than 2700 different types of ballast tubes now in use. Kit contains 2 type "A," 2 type "B," and 1 type "C" tubes, tools, and booklet.



FREE REPLACEMENT GUIDE WITH KIT

Kit includes new revised 80-page Belt and Ballast Book. Gives all replacement information for 2700 ballasts and valuable technical data. Shpt. wt., 2 lbs.
9-875. Ballast Tube Kit. NET \$2.94

REPLACEMENT TUBES FOR ABOVE

Individual replacement tubes for above kit. Keep your stock complete. Wt., 8 oz. each.

9-885. Ballast A. 9-886. Ballast B. 9-887. Ballast C. NET S9c

HIGH QUALIT



Туре	Stock	List	NET	EACH	Туре	Stock	List	NET	EACH	Туре	Stock	List	NET	EACH
. The	No.	FISE	1-14	15-UP	1366	No.	List	1-14	15-UP	- 1300	No.		1-14	15-UP
6R7G	9-170			\$0.43	12A5	9-237		\$1.01		31	9-297			\$0.37
*657	9-172		.69	.62	12A7	9-238	1.90	.84	.76	32	9-298	1.25	.56	.50
657G	9-173		.69		12ASGT	9-239	.95	.43		32L7GT	9-299	1.90		.76
*6SA7	9-174	.95	.41	.37	12B8GT	9-240	1.55	.69	.62	33	9-300	1.25		.50
*6SC7	9-176	1.25	.56	.50	*1208	9-241	1.90	.84	.76	34	9-301	1.25		.50
*6SF5	9-178	.95			12F5GT	9-242	.95	.43	.39	35/51	9-302	.95 1.25		.37
*6SJ7	9-182	1.05	.48	.43	12J5GT 12J7GT	9-244	1.05	,48	.39	†35A5 (LT) 35L6GT/G	9-304	.95		.39
*65K7	9-184	.95		.37	12K7GT	9-246	.95	.41	.37	†35Z3 (LT)	9-305	1,25	.52	.47
6SK7GT	9-185	1.05			1207GT	9-249	.85	.37	.33	35Z4GT	9-306	.75		.30
*65Q7	9-187	.95		.34	*12SA7	9-250	.95	.41	.37	35Z5GT/G	9-307	.80		
65Q7GT	9-188	1.05			125A7GT	9-251	1.25	.56	.50	36	9-309	.95	.41	1.37
*65R7 6T7G	9-169			.42	*125C7	9-252	1.25	.56	.50	37	9-310	.80		
6U5/6G5	9-192			.52	*125F5	9-253	1.05	.48		38	9-311	1.05		.42
6U7G	9-195	.95			12SF5GT	9-254	1.05	.48		39/44	9-312	.95		.37
*6V6	9-196				*12SJ7	9-257	1.05	.48		41	9-314	.80		
6V6G	9-197	1.25		.46	12SJ7GT	9-258	1.05	.48		42	9-315	.80		
6V6GT	9-198				*125K7	9-259	.95	.41	.37	43	9-316	1.05		.42
*6X5	9-202	1.55			12SK7GT	9-260	1.05	.48		45Z5GT	9-319	1.05		
6X5G	9-203	1,05	.41	.37	*12SQ7	9-262	.95				The second	The second	110,000	
6X5GT/G	9-204	.95		.37	12SQ7GT	9-263	1.05	.48		46	9-320	1.05		
6Z7G	9-209	1.90		.76	12Z3	9-265	.95	.43		49	9-323	1.25		.48
6ZY5G	9-210	1.25			19	9-270	1.25	.56	.50	50	9-324	2.30		
†7A4	9-211	1.25			24A *25A6	9-273	1,90	.84		SOLEGT	9-326	1.05		.42
†7A5	9-212	1.25	.52	.47	25A6G	9-275	1.05	.48		56	9-332	.75		.30
†7A6	9-213	1.25	.52		25A6GT	9-276	1.05	.48		57	9-333	.85	.39	.35
†7A7 (LM)	9-214	1.25	.52	.47	25A7G	9-277	1.55	.69		58	9-334	.85		.35
†7A8	9-215	1.25	.52		25A7GT	9-278	1.55	.69		59	9-335	1.55	,69	.62
†7B4	9-216	1.25	.52	.47	25B5	9-281	2.30	.99		70L7GT	9-337	1.90	.84	.76
†785 (LT) †786 (LM)	9-217	1.25	.52 .52	.47	25B8GT	9-283	1.90	.84	.76	71A	9-338	.85		.35
7B7	9-219	1.25	.52	.47	*25L6	9-285	1.55	.69	.62	75	9-339	.80		.31
788 (LM)	9-220	1.25	.52	.47	25L6G	9-286	1.25	,50		76	9-340	.85		.34
			- Systems		25L6GT/G	9-287	1.05	.47	.43	77	9-341	.85		.34
†7C5 (LT)	9-221	1.25	.52	.47	25Z5	9-290	.95	.43	.37	78	9-342	.85		.34
†7C6	9-222	1.25	.52	.47	*25Z6	9-291	1.25	.56	.50	80	9-344	,65		.24
†7C7	9-223	1.25	.52	.47	25Z6G	9-292	.95	.38		81 83	9-345	1.90		
7E6	9-224	1.25	.52	.47	25Z6GT	9-293	.95	.38		84/6Z4	9-349	1.05	.36	.42
†7E7	9-225	1.55 1.55	.69 .69	.62 .62	*1852	9-096	2.30	1.01	.91	85	9-350	.85		.35
7G7/1232	9-226	1.90	.84	.76	*1853	9-093	1.90	.71	.64	89	9-351	.95		
707	9-232	1.25	,52	.47	26	9-294	.70	.30		117L7GT		2.30		.89
†7Y4	9-234	1.25	.52	.47	27	9-295	.65	.28	.25	117N7GT/G		2.30		
10	9-235	2.80	1,25	1.12	30	9-296	.95	.41	.37	117Z6GT		1.55		.62
						-			Total Control					

*Metal Type. †Loktal Type. G-Octal Glass Type. GT-Small Octal Glass Type.



HYTRON BANTAM JR. MINIATURE TUBES

Tiny 1.4 volt tubes only 2\%6" high. Highly-sensitive and compact bantam tubes for hearing-aid amplifiers and experimental circuits, etc. Low "B" drain. With sockets. Have extra resistor to permit use in 70 ma. circuits. Shpg. wt., 6 oz.

No.	50 Ma. Fil.	Use	NET
5-000	HY113-HY123	Triode	\$1.75
5-001	HY115-HY145	Pentode	2.50
5-002	HY125-HY155	Pentode	2.50



CLAROSTAT METAL TUBE RESISTORS

Octal base resistors replace tubes starting with letters BK. BL, K. L, M. Operate regardless of pilot lamp combination, or if lamp burns out. Not affected by line voltage variations; Ideal for replacement work. Wt., 8 oz.

Stock No.	Numbers	End-Letter	NET EACH
5-200	10-23	A,B,C,D	59c
5-201	23-55	A,B,C,D	
5-202	23-55	F,G,H	
5-203	60-92	A,B,C,D	
5-204	60-92	F,G,H	
5-205	92-105	A,B,C,D	

37-535. Plug-in Resistor Manual. 15c



GENUINE G-E MAZDA PILOT AND FLASHLIGHT BULBS

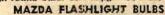
General Electric Mazda clear pilot light bulbs. Famous the world over for their quality dependability, and long life. Standard bead coloring. Type 40. Brown bead; types 41, 43, 50, 51, and 55, White bead; types 42 and 45, Green bead; types 44 and 46, Blue bead; types 48 and 49, Pink bead. Cheaper than foreign-made bulbs in the long run. *Indicates miniature bayonet base. †Indicates small round bulb. Av. shpg. wt., 3 oz.

RADIO PILOT LIGHT BULBS

Stock No.	No.	Volts	Amps	EACH	of 10
52-306	41	2.5	.50	\$0.09	\$0.54
52-308	43*	2.5	.50	.09	.54
52-307	42	3.2	.35	.12	.71
52-305	40	6-8	.15	.09	.54
52-315	50†	6-8	.20	.10	.59
52-316	51*†	6-8	1.0	.07	.41
52-320	55*†	6-8	.40	.07	.41
52-313	48	2.0	.06	.15	.88
52-314	49*	2.0	.06	.15	.88
52-309	44*	6-8	.25	.09	.54
52-311	46	6-8	.25	-09	-54
52-310	45*	3.2	.35	.12	.71
52-312	47*	6-8	.15	.09	.54

G-E TYPE S6 115 VOLT

PILOT LAMPS Rated 1500 hrs. av. use. Candelabra base; clear finish; 1½, 40z. 15c. 52-349. 6 Watt. NET... 25c. TYPE C7. As above, but cone shaped; 2½, length. 7 watts. Wt., 40z. 52-355. Clear. 52-356. White. 52-357. Red. EACH... 10c.



Stock No.	Lamp No.	Cell	Volts	Amp.	NET Each	Box of 10
52-331	223	2 2 3	2.2	0.35	\$0.09	\$0.54
52-334	233	2	2.3	0.27	.09	.54
52-300	13	3	3.8	0.30	.09	.54
52-301	14	2	2.5	0.30	.09	.54
52-302	31	5	6.2	0.30	.10	.59
52-327	136	1	1.3	0.60	.10	.59
52-339	248	2	2.4	0.80	.10	.59
52-342	605	5	6.0	0.50	.10	.59
52-325		1	1.1	0.22	.09	.54
52-330	222	2	2.2	0.25	.09	.54
52-344		2	2.4	0.50	.13	.76
52-345		1251223	3.6	0.50	.13	.76
52-328		2	1.93	0.45	.15	.90

TUBULAR 120 VOLT 4-WATT PILOT LAMP

New long-life 4-watt tubular candelabra-base pilot lamp. Crystal clear finish. Conforms to exacting U.S. Government specifications. Ideal for use behind small panel openings, clials, etc. Has the appearance of a radio pilot lamp. Size: ½' in diameter; ½' in length. Shpg. wt., 4 ez. 36c





NEON LAMPS-LINE CORDS-REGULATORS



GENERAL ELECTRIC NEON GLOW LAMPS

T-2 TINY NEON LAMP





T-2 UNDER-PANEL MOUNTING

or ½, bole in panel. 1½ long; depth, with terminals, 1½, Wt. 3 oz. 52-382. 10 FOR \$1.08. EACH...., 12c.

T-2 WITH SWITCHBOARD LAMP BASE



PANEL MOUNTING

With bakelite body for panels up to 1/6" thick; 1/2" dia. mounting hole. .2 meg. resistor built-in. 2" behind panel. 1/4" in front. Wt., 7 oz. 59c

STANDARD AC-DC LINE CORD RESISTORS



Stock No.	Ohms	Stock No.	Ohms	
49-510	360	49-517	220	NET
49-511	350	49-518	200	EACH
49-512	330	49-519	180	20
49-513	310	49-520	160	300
49-514	290	49-521	150	10 for
49-515	280	49-522	135	52.70
/10 E1C	250	110000000000000000000000000000000000000	The state of	,

UNIVERSAL AC-DC LINE CORD



Consists of 6 resistance values up to 330 ohms.

foot cord. Shog. wt., 1 lb.

Select proper resistance required and clip off remaining leads. 6-

"MAKE-UR-OWN" RESISTANCE CORDS

Now vesistance cords can be tailor-made to meet any requirement. Consist of color-coded line cord wires with asbestos-covered resistance wire. Simply divide total resistance needed by 30 or 60 to determine length in feet needed.

	30 Ohms P	er Ft.	60 Ohms Per Ft. Stock No. NET 49-571 200 49-572 900		
Length	Stock No.	NET	Stock No.	NET	
5 Feet	49-561	20c	49-571	20c	
25 Feet	49-562	90c	49-572	90c	

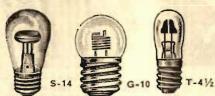
220-110 VOLT AC-DC LINE CORD



Permits operation of any 110 Volt AC-DC receiver from 220 Volt line. With plug and receptacle attached. Shpg. wt., I lh.

49-580. For sets using .15 amp. tubes.

49-581.10 NET EACH. For sets using .3 amp. tubes.



Low wattage, neon-filled lamps that glow a bright orange red. Innumerable applications: as signals on test equipment, ignition or panel-board indicators, fuse indicators, stroboscopic illuminants, on electric ranges and portable radio sets, as night lights, in coin-operated machines, on fire alarm boxes, etc. Average useful life, 3000 hours. Non-heat-producing; not affected by vibration. For 105-125 volts AC or DC. Average shpg. wt., 4 oz.

EXTRA 10% DISCOUNT IN LOTS OF 10 EDISON TYPE BASE

No.	Type	Finish	Watts	EACH
52-800 52-801 52-802 52-803 52-804 52-805 52-806	G10 G10 G10 S14 S14 S14 S14	Clear Clear Clear Clear Orange Red Clear	1 (210-250V.)	36c 36c 36c 45c 49c 49c

CANDELABRA BASE

52-807 T4½ 52-808 G10 G10	Clear 1/2 Clear 1	36c 41c 41c
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ARGON GLOW LAMPS

G-E RESISTORLESS TYPE

A neon type unit for use in voltage regulators, test instruments, noise silencers, and any high frequency equipment. There is no resistor in base of lamp. Can be matched to any test panel or instrument. Ideal panel indicator light. Has double contact bayonet base. Wt., 4 oz.

Stock No.	Type	Finish	Watts	EACH
52-812 52-813 52-814 52-815	T4½ G10 G10 S14	Clear Clear Clear Clear	(2)	41c 49c

PORCELAIN SOCKETS



For econ lamps. Edison base types are for stan-dard bulbs. Handy screw terminals. *Metal shell over hard rubber. Shpg. wt., 8 oz.

-		~	
Stock No.	Base	Mount	EACH
52-850 52-851 52-852 52-853*	Edison Edison Candelabra Bayonet	Cleat Sub-panel Sub-panel Sub-panel	11c 16c 28c 21c

See page 165 for panel mounting sockets for candelabra base bulbs.

GENUINE G.E.



The well-known, efficient G.E. Tungar Bulbs. Used in many standard chargers. Replace Rectigon bulbs of same rating. Shpg. wt., 2 lbs.

Stock No.	G.E.Type	Amps.	Fig.	EACH
9-900	277465	2	A	\$2.94
9-901	195528	2	В	2.94
9-902	289881	0.5	C	2.94
9-903	189048	6	D	3.67
9-904	189049	6	D	3.67
9-905	217283	15	D	7.35

MALLORY BIAS CELLS

Designed principally to bias first audio tubes in high gain amplifiers. Eliminate necessity of using high capacity cathode bypass condensers. Illustration shows single bias cell in No. 9-955 holder listed below. May also be used to furnish initial bias for RF, IF, and AVC circuits. Size, only 1½ by %. Noiseless, non-reactive at audio frequencies. Provide a no-current potential of 1 or 1¼ volt ± 10%. Cells may be used in series for higher voltages. Eliminate distortion. Will last indefinitely if not overloaded. Holders below permit easy mounting. Shpg. wt., 3 oz. 9-950. 1 Volt Type.

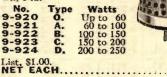
9-950. 1 Volt Type. 9-951. 14 Volt Type. EACH...... 18c 37-023. Mallory circular. Complete data on Mallory bias cells. FREE ON REQUEST.

BIAS CELL HOLDERS
For mounting Mallory bias cells above. Have convenient terminals. Av. shpg. wt., 3 oz.

Stock No.	Туре	For	EACH
9-955	GBIIA	1 cell	6c
9-956	GB11B	1 cell	9c
9-957	GB12	2 cells	12c
9-958	GB13	3 cells	15c
9-959	GB14	4 cells	21c

VOLTAGE REGULATORS CLAROSTAT LINE VOLTAGE REGULATOR

Adjusts line voltage for all 110 Volt radios. Protects against fluctuating voltages. Keeps set voltage constant even with line voltage increase to 140 volts. Plugs into wall outlet; set cord plugs into regulator. Shpg. wt., 1 lb.





59c

986

CLAROSTAT REPLACEMENT LINE BALLASTS

Exact duplicates for sets indicated. Maintain normal volcage for line fluctuations from 90 to 135 volts. (Other ballasts can be supplied for almost any radio. When ordering, send in detective ballast and deposit for fast service.) Shpg. wt., 1 lb.



List \$1.75. NET EACH.....

UNIVERSAL RESISTOVOLT

An automatic voltage regulator. Maintains a constant potential of 110 or 220 Volts, AC or DC, preventing tube burnouts, and assuring more stable performance. Easy to install—just plug in between line cord and wall outlet.

Shpg. wt. 1 lb.

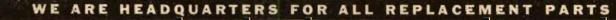
9-970. Heavy-Duty for sets from 5 to 9 tubes. NET EACH... 56c

CONTINENTAL VOLTACON

A versatile new plug-in type voltage regulator that protects any radio from over-voltage. Adjusts to any of three positions covering voltage ranges between 115-120 volts, 120-125 volts, 125-130 volts. Adjustment is quickly made by turning barrel of unit; no further attention is required after initial adjustment is made. For use with any 4 to 10 tuber adio, drawing not more than 100 watts. Shpg. wt., 1 lb.

9-980. NET.







ALITY TEST EOUIPM

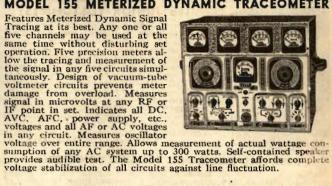
188X FM-AM UNIVERSAL SIGNAL GENERATOR



MODEL 177X SIGNAL GENERATOR

84-102. Model 177X. Same as the Model 188X but less the db meter. With crystal. CASH PRICE. \$62.03
Time Payments: \$12.40 down, \$6.83 monthly for 8 months.

MODEL 155 METERIZED DYNAMIC TRACEOMETER



FOR RAPID SERVICING OF FM-AM AND TELEVISION RECEIVERS

The RF-IF section covers 100 to 1800 KC. Ranges are: 0-5,000-25,000-100,000 microvolts and 0-5-2.5-10-25 volts. Oscillator section covers 600 to 1700 KC, 1.7-5-15 MC: voltage ranges are: 0-.3-1.5-7.5-30.0 and 150 volts. The DC voltmeter section ranges are: 0-2.5-5-25-50-250 and 500 volts with a zero-center. Input impedance is 18 megohms. The AF section covers 0-.1-1-5-10-50-100 and 500 volts at an input impedance of 2 megohms. The RF-IF, Oscillator and AF sections have jacks for oscilloscope or phone monitoring. A 5-amper fuse on front panel protects entire instrument, including the wattmeter. With 4 special low-capacity shielded leads and complete, detailed operating instructions, 13*x16*x10*. Wt. 50 lbs. For 110 V., 60 cycles AC. \$126.42

Time Payments: \$25.28 down, \$13.91 monthly for 8 months.

510X DYNAMIC MUTUAL CON-DUCTANCE TUBE-SET TESTER



A desirable com-bination of a combination of a complete set tester and tube tester all in one instrument. The Model 510X indicates Dynamic Mutual Conductance in micromhos as well as "Replace-? - B a d' ' on a large, easily read 5-inch meter with multi-colored multi-colored scales. Tests all receiving tubes, including those

\$14.34 down, \$7.89 monthly for 8 months.

MODEL 202 ELECTRONIC AC-DC **VOLT-OHM-MILLIAMMETER**



Here is a new instru-ment having features which make it indis-pensable for the serv-icing of present-day complex circuits. Makes all AC, DC, AF, and most re-sistance measure-ments while the set is in operation withments while the set is in operation with-out disturbing the most delicately bal-anced circuit. Circuit design of the instru-ment provides pro-tection against acci-dental overloads, scriminator voltages

530 DYNAMIC MUTUAL CONDUCTANCE TUBE TESTER





mutural Conductance type. Two scales are provided, one reading micromhos and the other, a direct-read in g. "Good-?-Replace" scale. Mutual conductance scale has three ranges: 03.000, 0-6.000, and 0-15,-000 micromhos. Poor tubes which pass when tested in the ordinary emission type tube testers, are easily detected in the Model 530. The instrument has a 4-inch square meter with multi-colored illuminated dial. Tests all tubes, including those rated at 117 volts, as well as octal, loktal, miniatures, gas rectifiers, grid-controlled rectifiers, magic eyes, battery tubes, pilot lights and ballasts. Tests for shorts with tube hot or cold. Also tests gas content of a tube. Sensitive noise test. Calibrated line indication. Line voltage adjustment from 96 to 130 volts. Convenient roll-type tube chart with directive arrows permits rapid setting of controls. Counter Model, 14*x16*x6*, Portable Model, 144/x13*x6*. For 110 V., 60 cycles. Complete operating instructions supplied. Less 83 and 5W4 tubes. Wt., 22 lbs. 84-104. Counter Model. \$58.80 CASH PRICE

\$11.76 down, \$6.47 monthly for 8 menths.

OTHER FINE HICKOK TEST INSTRUMENTS

We can supply all HICKOK INSTRUMENTS. Complete HICKOK literature, 37-060, and time payment blanks will be mailed on request. Send deposit and references with order on time payment purchases.

84-108. Model 19X. Crystal Controlled Microvolt Generator. Range, 100 KC to 120 MC. 400 cycle, 1 volt output. Built-in. VTVM. 30 lbs. \$94.08 \$18.80 dn., \$10.35 mo. for 8 mo.

84-109. Model 110. AC-DC Vacuum Tube Voltmeter. 0-1.5-3-15-75-150-750-7,500 V. DC; also 0-1.5-3-50-150 V. AC. Shipping wt. 21 lbs. \$64.68 \$12.94 dn., \$7.12 mo. for 8 mo.

84-110. Model 133. Radio set and dry battery tester. V.O.M. with sensitivity of 25,000 ohms per volt. Wt. 9 lbs. \$48.51 \$25,70 dn., \$5.34 mo. for 8 mo.

84-111. Model 210S. Jumbo zero current, volt-ohm-milliammeter. Infinite ohms per volt. Size: 13"x16"x7". 35 lbs. \$67.91 CASH...
\$13.58 dn., \$7.47 mo. for 8 mo.

84-112. Model 900. All-purpose

84-113. Model 4955S. Accurate V.O.M. AC and DC sensitivity of 1000 ohms per volt. Zero to 10 megs. Size: 7*x4½*x3½*. Shpg. wt., 5 lbs. \$29.69 \$5.94 dn., \$3.27 mo. for 8 mo.

MODEL RFO-5 3 INCH OSCILLOGRAPH

An ideal instrument for the laboratory or the service shop. It offers complete visual analysis of a signal from the antenna post to the voice coil of a receiver or amplifier. This is made possible by sensitive amplifiers and a built-in demodulator. Stage by stage measurements for gain, the localizing of distortion and hum are easily made. A calibrated screen allows quantitative measurements of voltage gain. Visual type VTVM reads .2 to 1,000 V., AC.

FOR FM, AM AND TELEVISION



The RFO-5 has a self-contained frequency modulated oscillator, 100 to 900 KC sweep (basic frequency, 23 MC) and a 10-30 KC sweep (basic frequency, 1000 KC). The wide band oscillator can be modulated externally by a phono pickup, mike or AF oscillator to provide a frequency modulated transmitter for checking FM receivers. No external oscillator is required as the 2nd harmonic of 23 MC falls in the center of the 42-50 MC FM band. Has return trace eliminator, fuse protection, pilot light and phasing control. Size, 11"x13"x15"/4". For 110 V., 60 cycles. 50 lbs. 84-114.

CASH PRICE

Time Payments: \$20.40 down. \$11.23 mantible of the second control of the se

STO2.02 ISH PRICE Time Payments: \$20.40 down, \$11.23 monthly for 8 months.



R.C.A. TEST EQUIPMENT



165 JUNIOR VOLTOHMYST

The Model 165 Junior Voltohmyst is a pushpull electronic voltmeter and ohmmeter suitable for use in the laboratory, service shop, and in many industrial applications. It is light in weight and extremely easy to operate. The rugged meter has been designed to withstand great mechanical shock and is provided with complete overload protection for DC voltage and resistance measurements. It is capable of providing highly accurate readings despite fluctuations in line voltages. Accuracy is also maintained when tubes are changed. Another feature of the Junior Voltohmyst is its extremely high input resistance held constant at 11,000,000 ohms. The Model 165 Junior Voltohmyst is a push-

PUSH-PULL ELECTRONIC VOLTMETER-OHMMETER

160-B 5-INCH OSCILLOGRAPH

This fine instrument incorporates all of RCA's skill and vast experience in the manufacturing of oscillograph equipment. Incorporates the famous RCA type 5BP1/1802-P15-inch cathode-ray tube which produces a large, clear trace on its screen. This is a decided advantage when detailed observations of phenomena must be studied. Controls of the Model 160-B, including intensity and spot centering, are all conveniently located on the front panel of the instrument. While designed for general purpose work, the 160-B may also be used for engine-pressure measurements, and many similar industrial and laboratory testing applications.

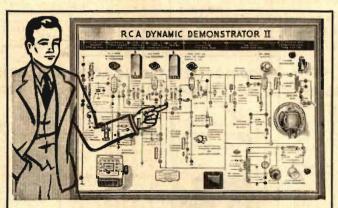


WIDE RANGE SENSITIVE AMPLIFIERS



155-A 3" OSCILLOGRAPH

RCA's finest general-purpose 3-inch oscillograph. A precision instrument designed to meet present-day requirements and applications. Greater portability is achieved through reduced size and weight. All controls mounted on front panel for convenient operation. Ideal for alignment, hum, distortion, and wave-form measurements. Amplifier response, flat from 20 to 90,000 cycles. Amplifier gain is 40. Timing axis, 15-22,900 cycles. Sensitivity without amplifier, 20 volts RMS per inch deflection; with amplifier, 5 volt RMS per inch deflection. Uses an improved type RCA 3AP1-906-PI cathode ray tube with Aquadag coating and a mediumpersistence screen. Produces large, clear image. Cabinet has a bluegray baked lacquer finish. Size: 15"x8"x14". Beautiful etched finish front panel. Streamlined carrying handle. Power consumption, 50 watts. Complete with tuber. For 110 volts, 50-60 cycles. Shpg. wt., 32 lbs. Wt. 32 lbs. CASH \$72.50 \$14.50 down,\$7.98 mo. for8 mos.



RCA DYNAMIC DEMONSTRATOR II

RCA DYNAMIC DEMONSTRATOR II

The RCA Dynamic Demonstrator II, when used with modern test instruments, permits both qualitative and quantitative analysis of radio circuit conditions. It is the perfect demonstrator for teaching radio in Technical High Schools, Vocational Schools, and Colleges. It permits a visual and/or audible demonstration of the operation of a radio receiver. A signal can be checked in the various stages from the antenna to the loudspeaker. Dramatically shows modern signal tracing methods for locating stage so urce of hum, noise and distortion. All of this can be accomplished with practically no effect on the signal itself. Dynamic gain measurements are reaching made. Permits checking of parts and leads for presence or absence of signal. Enables the instructor to clearly demonstrate the proper method of circuit alignment, oscillator tracking, etc. The Demonstrator is a 5 tube modern superheterodyne receiver in operating condition. Vital parts of the set are arranged in functional sequence in conjunction with the large schematic diagram on the face of the board. Prin jacks for voltage readings, etc., are brought out at various operating points. The circuit uses 1—6SA7, 1—6SK7, 1—6FG7, 1—6FGG, and 1—5V3G. Size: 41°x29°x12°. For 110 V., 60 cycles. Shpg., wt., 30 lbs.

98-560. Model 172.

NET CASH.

Terms: \$15.00 down, \$8.25 monthly for 8 months.

Terms: \$15.00 down, \$8.25 monthly for 8 months. Write for RCA Technical Bulletin IP-4017. 37-051. FREE.



158-D 5" OSCILLOGRAPH

\$32.00down,\$17.60mo.for8mos,



MODEL 161 SIGNALYST

The Model 161 Signalyst is a modern precision signal generator designed to meet present day requirements as well as the future demands of television, facsimile, FM, etc. The instrument provides accurate fundamental frequencies from 100 KC to 120 MC which are covered in 10 bands. Circuit consists of an oscillator stage, a buffer-impodulator stage, and an output meterimedulator stage, and an output metericonsists of an oscillator stage, a buffer modulator stage, and an output meterimedulator stage, and an output meterimedulator stage, and an output meterimedulator stage, and an output in metericonsists of an oscillator stage, a buffer metering of output in minimizes stray leakage. Built-in deterodyne detector permits crystal calibration for extreme accuracy of dial settings. Internal 400 cycle modulation and 400 cycle output are available. The built-in meter in conjunction with the ladder-type actemator provides direct reading of output in microvofts. Regulates plate and screen voltage supplies provide excellent stability. The beautiful brush chrome metal case measures 9¼ x8²x14² and has a convenient leather carrying handle. Panel is in brush and bright chrome. Complete with tubes. For 105-125 volts, 50-60 cycles. Shpg. wt., 24 lbs.

\$107.50 \$107.50 84-024. NET CASH

Terms: \$21.50 down, \$11.83 monthly for 8 months

171 STATION ALLOCATOR

The 171 Station Allocator is an oscillator which has been especially designed to facilitate the re-setting of buttons on push-button operated radios. The 8 buttons on the Allocator may be set up to tune any frequency between 405 and 1700 EC. Tuning is accomplished with adjustable magnetite core inductors wound on polystyrene forms and fixed condensers asing polystyrene dielectric. This type of constructions gives remarkably stable operation and reduces frequency drift to a minimum—an absolute necessity in order to obtain uniformly accurate frequency settings every bime.



FOR AC OR BATTERY OPERATION

The Allocator may be operated from self-contained batteries or from 115 V., 60 cycle lines. This makes the unit particularly well suited for resetting push-buttons in auto sets when AC is not available. A switch on the Allocator provides either CW or 400 cycle modulated output. Modulation is obtained through a neon-lump which also serves as pilot light. High and low outputs are available on separate pin-jacks. Steel case with carrying handles measures \$\frac{5}{188}\langle \cdot \frac{3}{18}\langle \cdot \cdot

84-026. Battery Kit for above. NET.....\$3.03

OUR PRICES ARE ALWAYS LOWER—WE WILL NOT BE UNDERSOLD

EQUIPMEN A. TE





154 AUDIO OSCILLATOR

COVERS FROM 30 TO 15,000 CYCLES

Output frequency coverage of the Model 154 is 30 to 15,000 cycles, ±1 db. from 30 to 10,000 cycles and down 2 db. at 15,000 cycles. Output impedances, 250, 500, and 5,000 ohms. Output voltage, 5.2 volts at 250 ohm load to 37.5 volts at no load. Power output is 125 milliwatts. Hum level, —60 db. below maximum output. Distortion less than 5% RMS over entire range. The attractive gray wrinkle finished cabined with special snap handle measures 9½" high x 13½" long x 6½" wide. Supplied complete with RCA tubes. For 110-120 volts, 50-60 cycle operation. Has fuse protection. Shpg. wt., 19 lbs. \$57.50 84-034. NET CASH.....

Terms: \$11.50 down, \$6.33 monthly for 8 months.

167A TEST OSCILLATOR

The Model 167A is one of the finest test oscillators ever offered. This dependable instrument, with its wide frequency range and its unusually high output, has been especially designed to meet every requirement in the servicing of receivers. The giant 6½-inch dial, over 50 inches in length, is easy to read and has a calibration accuracy of 2%. The high-frequency range alone utilizes a 10-inch scale. Included with the Model 167A is a 36-inch, low-capacity output cable to permit connection of the instrument to any desired point in the receiver or amplifier under test. High stability and maintenance of calibration accuracy are achieved through proper shielding, metal-type tubes and a correctly engineered



SIX-BANDS FROM 100 TO 30,000 KC

The RF range of the Model 167A is from 100 KC to 30,000 KC and is covered in 6 bands—all fundamental frequencies. Harmonics of the last band may be used for ultra high-frequency work. The audio modulation frequency is 400 cycles. An output of 8 volts is available for testing audio circuits, loudspeakers, etc. Maximum RF output on low range is .01 volt; medium range, .25 volt; and high range, 1 volt. Minimum signal is 2 microvolts. Output impedances are 10, 750, and 4,000 ohms. Blue-gray, wrinkle lacquer-finished metal cabinet, 133/459/4x6/2. With special snap handle and large, soft rubber feet. With tubes. For 110-120 V., 50-60 cycles. Shpg. wt., 16 lbs.

84-028. NET



MODEL 9572 CRYSTAL CALIBRATOR

CRYSTAL CALIBRATOR
The RCA Model 9572 is a crystalcontrolled oscillator producing
two modes of oscillation, one at
100 KC, the other at 1,000 KC.
Switch permits selection of either
frequency. In the 100 KC position the Model 9572 produces a
wide range of strong, reliable harmonics from 100 KC to 20,000
KC in 100 KC steps. In the 1,000
KC position, harmonics are produced from 1,000 KC to 50,000
KC in 1,000 KC steps. Accuracy
is guaranteed to be within .05%.
Temperature coefficient is 20
cycles/1,000 KC/OC. Calibrating temperature furnished with
each individual unit. This instrument provides an ideal means for
determining the frequency accuracy of test oscillators, for
checking and calibrating the frequencies of receivers and transmitters, etc. With one RCA 955
acorn tube. Size is only 5½°x
2½°x2½°. For 110-120 volts,
50-60 cycles. Shpg. wt., 2 lbs.
84-039.

STHER BCA TE

TRACES THE SIGNAL FROM THE ANTENNA RIGHT TO THE SPEAKER



MODEL 162 RCA-RIDER CHANALYST

One of the most remarkable instruments ever devised. Based on the new signal tracing method of set analysis. Will make it possible for you to service receivers with greater speed and accuracy. Customers will react favorably to the speedy and accurate service you can offer them. You'll get repeat jobs. You'll get new jobs. The first test instrument that gives true dynamic and functional testing of radio receivers. Tests each circuit while the receiver is operating—all without interfering with the performance of the receiver. Traces the signal from antenna to loudspeaker. Greater profits will quickly pay for it on ALLIED'S time payment plan. 12 tubes; RF-IF channel covers 95 KC to 1700 KC in 3 bands; oscillator channel coverage to 15 MC; AF channel, resistance-capacity coupled. Each channel employs Cathode-ray tuning eye. Has wattage indicator and wide range, zero center reading, electronic voltmeter. 4 ranges, 0 to 500 volts. Voltmeter input impedance, 11,000,000 ohms. Checks each tube; measures line wattage; makes gain-per-stage measurements; checks operating voltages; measures oscillator frequency in superhets; checks condensers; localizes distortion, noise and intermittents, etc. Complete with all tubes and shielded cables with special probe handles. Case measures 10½/"x16"x9". For 105-125 volts, 50-60 cycle. Shpg. wt., 28 lbs.

84-029. NET CASH.

84-029. NET CASH ... Terms: \$21.50 down, \$11.83 monthly for 8 months.

84-030. AF Adapter for Chanalyst. Permits more accurate measurement of AF gain in receivers having high plate circuit hum level. It filters out the 60 and 120 cycle hum without materially attenuating the 400 cycle AF test signal. It is for use between AF cables and the input jack of the Chanalyst. 8 oz. NET...\$1.75



164 CHANALYST CONVERTER FOR UHF TRACING

FOR UHF TRACING

This Model 164 Converter in conjunction with the Chanalyst described at left permits signal tracing to be extended into the ultra high-frequency ranges. These ranges include Television, Frequency Modulation and Facsimile. One of the features of this Converter is a new type of probe. Its capacity is one-half of one micromicro-farad, and it will not appreciably load or detune even high frequency circuits. This permits signal tracing in the UHF spectrum without upsetting the electrical condition of the circuit being tested. The Converter tuning range is 1600 KC to 80 MC. covered by 4 bands. Uses 270° dial scales with accuracy of ±1%. Polystyrene coil forms and air trimmers insure stability of operation. Metal cabinet finished to match Chanalyst. Size: 101/6"x 9/½"x9%4". With tubes and cables. For 117 V., 60 cycles. Shpg. wt., 18 lbs..

18 lbs. 84-032. CASH \$55.00 \$11.00 down, \$6.05 mo. for 8 mos.

OTHER RCA TEST INSTRUMENTS

New test equipment, including new tube testers and a Senior Voltohmyst, will be announced by RCA after publication of this catalog. We will be able to supply any of these new instruments as soon as they are available following announcement in the National Trade Magazines. The listing below is only representative of other RCA test equipment for Industrial, Government, and Service requirements. ALLIED can supply all RCA test instruments. For additional information on RCA test units write for free descriptive literature, 37-052. Most RCA test equipment is available on easy time payment terms. On time payment orders please send a 20% deposit; include three credit references and employment information. Forms for your signature will be forwarded promptly.

34-035. Model 157 Crystal Calibrator. A crystal-controlled oscillator supplying fundamentals at 250 and 2,000 KC. Accuracy, .05%. Ideal for calibration work, etc. 5½x2½x2½x².2 lbs.

Terms \$9.30 down, \$5.12 monthly for 8 months.

84-037. Model 159 Oscillator. For visual RF and IF alignment

84-037. Model 159 Oscillator. For visual RF and IF alignment work in television receivers. Covers a frequency range of 7.5 to 15 MC and 43 to 91 MC. 91/4x137/4x61/2". 21 lbs.

\$130.00

Terms: \$26.00 down, \$14.30 monthly for 8 months.

84-038. Model 9558 Frequency Modulator. For use with an oscillator and oscillograph to align receivers visually. \$27.50 \$27.50

170 AUDIO CHANALYST

The Model 170 is an audio version of the famous RCA-Rider Chanalyst described above. It is indispensable for use in matching up a new sound installation or locating trouble in an existing system. Permits a complete analysis of amplifier operating conditions. A speaker is provided for listening tests and can be used as a sound source for microphone testing. The Model 170 measures noise and hum levels, resistance and impedance, operating levels, gain, AF (AC) and DC voltage, and microphone output. Has one high and one low gain amplifier channel, flat from 20 to 10,000 cycles, each with an electronic even an oscillator channel offers outputs at 60, 150, 400, 1000, 2500, 5000, and 10,000 cycles. Electronic 8-range volumeter to 1000 volts with D scale from —20 to +49 DB. Ohmmeter reads to 400 megohms in 4 ranges. Measures impedance to 400,000 ohms. Size: 12¹½6x9½x18½″. For 110-120 V., 60 cycles. Shpg. wt., 40 lbs. \$225.00

Terms: \$45.00 down, \$24.75 menthly for 8 months.



Terms: \$45.00 down, \$24.75 monthly for 8 months. 37-053. RCA Technical Bulletin Number 1P-4054-Sent FREE

RIPLET Quality, TEST EQUIPMENT



MODEL 1213 DYNAMIC TUBE TESTER

A new Tube Tester by Triplett which carries the "Red Dot" Lifetime guarantee. A unique feature of the 1213 is the hinged card index tube chart. It permits a rapid and convenient means for locating the various tube types. Sections of the chart can be quickly changed when new tubes are added, thus keeping them in their proper order. New tube listings for each section will be mailed promptly to registered owners.

will be mailed promptly to registered owners.

MAKES TELEVISION TUBE TESTS

The Model 1213 tests all Loctals, Bantam Jr. high voltage including the 117 V, series, Single End types, Octal, Magic Eyes, Pilot Lamps, Ballasts, Metal, Glass, MG, Gas Rectifiers, voltages are available from 1.1 to 110 volts making the instrument obsolescence-proof. It has a fully balanced circuit with leakage test for cathode-heater and inter-elements (with short test between any two elements), provisions for checking open filaments, hot leakage check, and separate tests of full-wave rectifiers. Bad tubes are easily identified and rejected. Has 3" Triplett "Red Dot" Lifetime guaranteed meter with a "Good-?-Bad" scale. A separate meter is used for line voltage control. The attractive case of the Model 1213 is finished in brown, tan and red with silver markings. Has sturdy snap-on case cover. For 115 volts, 60 cycles AC. Shpg. wt., 14 lbs.

**23.72*

WIDE-RANGE VOLT-OHM-MILLIAMMETERS

MODEL 1200-A 2,000 OHMS PER VOLT

MODEL 1200-A 2,000 OHMS PER VOLT
A compact universal AC-DC V-O-M featuring
a Triplett "Red Dot" Lifetime guaranteed instrument. Twin meters in single case have separate AC and DC movements. DC meter
reads: 0-10-50-250-500-1000 volts at 2000 ohms
per volt; 0-1-10-50-250 ma.; 0-1500 ohms-1.53 meg. Has an additional "Back-up" low-ohm
scale of 0-500 ohms with 15 ohm center scale
reading. AC meter reads: 0-10-50-250-500-1000
volts. Voltage scales are direct reading. Sturdy
metal case with brown suede enamel finish.
Size, 7½ x 6½ x 55½ ". With leads and batteries. Wt., 12 lbs.
\$23.56



MODEL 1200-C—5,000 OHMS PER VOLT Same as Model 1200-A, but with these extra ranges: 0-5000 V. AC and DC; 0-250 microamps, and 0-10 amps. DC; 0-1-10-25 amps, AC, and 0-7.5 megohms in place of the 0-3 megohm scale. Wt., 13 lbs. \$35.28

MODEL 1200-E—25,000 OHMS PER VOLT
Similar to Model 1200-A, but with these extra ranges: 0-2500 V. AC and DC; 0-50 microamps, and 0-10 amps, DC. Resistance ranges are: 0-1,000-40,000 ohms, 0-4-40 megohms. Shpg. wt., 13 lbs.

84-553. NET.

HANDY POCKET-SIZE **VOLT-OHM-MILLIAMMETERS**





Model 666-H

Model 666-S

NEW MODEL 666-S

NEW MODEL 666-S

A modern-styled, compact instrument that provides the answer to all requirements for a low-cost V-O-M. It incorporates the testing capabilities of larger, more costly equipment. Uses a Triplett "Red Dot" Lifetime guaranteed meter with a compensated copper-oxide rectifier for AC measurements. Ranges are: 0-2-5-10-50-250-1,000-5,000 V. DC at 10,000 ohms per volt; 3-700 microanaps. 0-1-10-160 ma., 0-1-10 amps. DC; 0-400-40,000 ohms. D-4 megohnns; 0-2-5-10-50-250-1,000-5,000 V. AC at 1,000 ohms per volt. Self-contained battery. Panel and dial markings are in white and red to distinguish between AC, DC and ohms scales. Black modded case and panel, 3½6" x 5½6" x 2½6". With battery and test leads. Shpg. wt., 4 lbs. 84-554. NET.

STANDARD MODEL 666-H

A new and improved instrument built around a 3' sensitive, accurate "Red Dot" Lifetime guaranteed meter. Provides the following scales: 0-10-50-250-1,000-5,000 V. AC-DC at 1,000 ohms per volt; 0-10-100-500 W. AC-DC at 1,000 ohms Scales are in three colors to facilitate reading. Higher resistance readings may be obtained with external battery. A compensated copper-oxide rectifier assures accurate AC voltage readings. Complete with battery and specially instalated test leads with chips, tested at 11,000 volts. Black molded case and panel. Size: 31/6*x5/*x216. Shpg. wt., 4 lbs. \$15.65

MODEL 666-1000 VOLTS

MODEL 686—1000 VOLTS
Similar to Model 666-H above but has following ranges: 0-10-50-250-500-1,000 V. DC
at 1,000 ohms per volt; 0-1-10-50-250 ma.
DC; 0-300-250,000 ohms; 0-10-50-25-0500-1,000 V. AC. With provisions for higher resistance readings by means of external batteries. Size and appearance same as Model 666-H. Complete with battery, test leads, and accessories. Wt., 4 lbs. \$15.09

CARRYING CASE

84-560. Attractive leather carrying case with handle for the above instruments. Holds tester and accessories. 2 lbs. \$3.06

LIFETIME GUARANTEE "LOOK

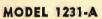
The "Red Dot" on Triplett test FOR equipment is your positive guarantee that the measuring instru-THE ment will give you a lifetime of service. All Triplett Instruments RED are built to give the very high-DOT" est standards of performance.

SIGNAL GENERATORS

MODEL 1232-A

6 bands cover from 115 KC to 30.5 MC. Calibrated coils as-sure accuracy. The large 180° dial openlarge 180° drai open-ing improves read-ability. Scale length is over 50°. Triple shielding minimizes leakage. Perfect at-tenuation. 400 cycle audio note available. The 7½ x6½ x5½ metal case is finished





Same as above but for battery operation. Uses 1—22½ volt and 3—floshlight cells which can be obtained anywhere. Size and appearance identical with the Model 1232-A. With batteries and accessories. Ideal for portable use. Shpg. wt., 15 lbs.

84-566. MET.

\$29.66 \$29.66



1632 SIGNAL GENERATOR

A new wide-range Signal Generator featuring high accuracy and stability. Provides continuous fundamental coverage on 10 bands from 100 KC to 128 MC. A meter is incorporated for measuring input into the multiplier and attenuator. Ideal for making stage gain measurements. Has heterodyne detector for checking calibration. The output is fed through a coexial cuble to minimize losses. Has a regulator tabe and air-trimwer capacitors. Provides the following outputs: internal modulated, unmodulated, AF and provision for external modulation. Metal case, 15° x 9" x 6½". For 115 V., 60 cycles AC. Shpg. wt., 31 lbs. 84-567. NET. \$17.22 down, \$9.47 monthly for 8 months.

MODEL 1200-F AUTOMATIC **VOLT-OHM-MILLIAMMETER**

The Model 1200-F is a push-button operated, auto-matic V-O-M promatic V-O-M providing maximum speed and minimum switching. Only one button need be pressed for any range. The self-locking buttons are colorcoded for the various scales. Devarious scales. various scales. De-pressing one but-ton releases any other. The Model



other. The Model 1200-F provides the following ranges: 0-10-50-250-500-1,000 V. DC at 25,000 ohms per volt; 0-10-50-250-500-1,000 V. AC at 1,000 ohms per volt; 0-50 microamperes, 0-1-10-50-250 ma. DC; 0-1,000-300,000 ohms and 0-3-30 megohms. A built-in condenser permits autual readings using the AC scales. and 0-3-30 megohms. A built-in condenser permits output readings using the AC scales. Meter is a 4" Triplett "Red Dot" Lifetime guaranteed instrument. The plug-in rectifier simplifies replacement in case of accidental damage. The attractive metal case with rich brown suede enamel finish measures 7½"x6½"x5½"s. Snap-on cover has elastic strap inside for carrying accessories and instructions. Three-tone panel in brown, tan and red. Supplied complete with all accessories including batteries, Shpg. wt., 13 lbs.

ULTRA-SENSITIVE VOLT-OHM-MILLIAMMETER

MODEL 1600-E



A new impressive tester with a DC sensitivity of 25,000 ohras per volt. It is furnished in two styles—for panel mounting or for portable use. Ranges are: 0-10-50-250-1,000 V. DC at 25-000 ohras per volt; 0-50 microamperes DC; 0-1-10-50-250-500 ma. DC; 0-1-10-50-250-500 ma. DC; 0-10-50-250-500 ma. DC; 0-10-50-500 ma.

84.-572. Illustrated. As above, less case. 13 lbs. NET... \$22.64

RADIO HEADQUARTERS FOR DEALERS AND SERVICEMEN

RIPLETT Quality, TEST EQUIPMENT

MODEL 1183 COMBINATION TESTER



The Model 1183 is one of the most versatile test instruments on the market today. It combines in one compact carrying case a Volt-Ohm-Milliammeter, a modern up-to-date Tube Checker and a Free-Point Tester. The Volt-Ohm-Milliammeter section provides the following ranges; 0-10-50-250-500-1,000 V. DC at 10,000 ohms per volt; 0-1-10-50-250 ma. DC; 0-100 v. DC at 10,000 ohms per volt; 0-1-10-50-250-500-1,000 V. AC; Dot' Lifetime guaranteed instrument. Tests all present-day tubes in cluding Loktal, Miniature and Bantam Jr. A neon bulb shows the slightest inter-element shorts and leakages while cathode is hot. The flexible lever-type tube switching gives individual control for each tube prong. Speed roll chart can be spun from one end to the other in less than 4 seconds. The Free-Point Tester makes all series and parallel meter connections. Has sockets for all present day tubes. Plug adapters for Loktal, Bantam Jr., and Miniatures are not supplied. See page 56. The metal case measures 14½ "x 7½" x 4½" x 1½" x 1½\$53.74

84-507. NET CASH PRICE Time Payments: \$10.74 down, \$5.92 monthly for 8 months.

MODELS 1613 & 1612 TUBE TESTERS

The 1613 has a 7" meter, Features the "Red Dot" Lifetime guarantee. Full assurance against obsolessence is made possible by a filament transformer variable in steps from 1.1 to 110 volts. Has a fully balanced RMA tube testing circuit with leakage test for cathode to heater, or between any two elements. Checks for open filaments. Separate tests for multisection tubes. Will not pass tubes which do not operate properly in a radio set or amplifier. Provides for Loktal, "S," Miniatures, Bantam Jr., and Magic-Eye tubes, 117 V. series, ballasts, gas rectifiers, and pilot lamps, as well as the older types of tubes. Has a noise-test phone jack and a separate line voltage meter. The illuminated roll chart provides maximum simplicity of operation. It can be spun from one end to the other in less than four seconds. Heavymetal case has a baked silver-gray suede enamel finish. Size is 15½ x 11½ x 6½". For 115 volts, 60 cycles AC. Shpg. wt., 42 lbs. \$ 37,57





Same as the Model 1613 described above, but less cover and carrying handle. Streamlined heavy-metal case with silver-gray enamel finish. Size 151/4" x 111/6" x 6". For 115 volts, 60 cycles. Wt., 38 lbs. \$32.18

1672 VIBRATOR TESTER



The Model 1672 through its rotary switches offers many anti-obsolescence features. It is designed to thoroughly check all 6-volt vibrators. Dial has 3 scales: 0-10 V. showing input to vibrator, a "Good-Bad" merit scale, and a 0-100 scale for checking output of vibrator under standard input conditions. The new roll chart assures fast operation. Instrument is fused. Metal case with rich brown suede electro-enamel finish measures 14½" x 7½" x 4½". Operates from 6 volt storage battery (not supplied). With accessories including clips. Shpg. wt., 21 lbs. \$32.18

MODEL 1280 HIGH VOLTAGE TESTER



An ideal instrument for testing high voltages such as those encountered in television receivers, transmitters, etc. Every precaution has been taken to safegnard the operator of this tester. Metal contacts and instrument parts are removed a minimum of one inch from possible contact with sides of the case. The Model 1280 will measure 0-2,500-10,000 V. DC at 25,000 ohms per volt. The same ranges are available in AC at a sensitivity of 5,000 ohms per volt. Also measures 0-50-500-5,000 ohms per volt. Also measures 0-50-500-5,000 ohmicroamperes DC. Tester incorporates a Triplett "Red Dot" Lifetime Guaranteed 4" instrument. Red cuamel finish. 7% x6½ x5½". Has snap-on cover. Accessories include a set of insulated test leads tested at 25,000 volts. Slops, wt., 10 lbs. \$33.98

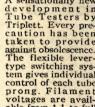
INSTRUMENT CURRENT TRANSFORMER



A TRIPLETT TESTER FOR EVERY PURPOSE

We can supply all Triplett test equipment units. Write for free catalog, 37-080, describing complete Triplett line. Time payment terms are available on Triplett units over \$40.00. See page 46 for additional Triplett test and appliance equipment.

LEVER SWITCHING TUBE TESTER **MODEL 1620**

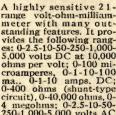


58.16 down, \$4.49 monthly for 8 months.

MODEL 1621 TUBE TESTER

Similar to the Model 1620 described above. Has a 4" square Triplett "Red Dot" meter. Size: 12½" x 7" x 10". Wt. 27 lbs. Less carrying case. For 110 volts, 60 cycles AC. \$37.57 84-515. Carrying case for 1621....\$5.39

625-T PORTABLE VOLT-OHM-MILLIAMMETER



MILLIAMMETER

A highly sensitive 21-range volt-ohm-milliammeter with many outstanding features. It provides the following ranges: 0-2.5-10-50-250-1,000-5,000 volts DC at 10,000 ohms per volt; 0-100 microamperes, 0-1-10-100 ma. 0-1-10 amps. DC; 0-400 ohms (shunt-type circuit), 0-40,000 ohms, 0-4 megohms; 0-2.5-10-50-250-1,000-5,000 volts AC at 1,000 ohms per volt. The attractively designed black molded case and panel afford complete protection for high voltage testing. Has a "Red Dot" Lifetime guaranteed meter with scales over 4½ long in contrasting colors for AC and DC markings. Size of case is 6x5½x 2½". Convenient handle. Complete with all accessories. Shpg. wt., 7 lbs. \$21.56

HANDY "LITTLE TRIPLETTS"



\$970 EACH



Matched units with 3" Lifetime Guaranteed "Red Dot" meters. Red molded cases. In single units or in combination for every servicing or electrical analyzing problem. 3\(\frac{4}{6}\xstrm{x}\) x 5\(\frac{7}{6}\xstrm{x}\) x 2\(\frac{1}{6}\xstrm{x}\). Ivory panels. Shpg. wt., 4 lbs.

84-520. MODEL 670. Fig. A. An AC Ammeter. This handy little tester has wide uses in countless fields. Self-contained current transformer permits measurements on the following ranges: 0-1-2.5-5-10-25 amperes AC. For operation on 60 cycles AC only.

84-521. MODEL 671. Fig. B. An AC Milliammeter invaluable for radio service, laboratory or experimental work. It permits complete AC milliamperes measurements to be made on eight ranges. The ranges are: 0-5-10-25-50-100-250-500-1,000 milliamperes AC.

84-522. MODEL 672. Fig. B. An AC Voltmeter particularly adapted for testing electrical appliances, motors, etc. The three ranges are: 0-150-300-750 volts AC. These three ranges are those most used in AC voltage measurement work in shop or field.

84-523. MODEL 673. Fig. B. Rectifier-type AC Voltmeter. Ideal for use where limited power is available. Also fine for out-put measurement work. The eight ranges are: 0-5-10-25-50-100-250-500-1,000 volts AC.

84-524. MODEL 674. Fig. A. A DC Ammeter. Self-contained shunts. No external shunts are required with this meter. The five ranges are: 0-1-2.5-5-10-25 amperes DC.

84-525. MODEL 675. Fig. B. A DC Milliammeter covering all needs in radio servicing and other fields. Ranges are: 0-1-5-10-25-100-250-500-1,000 ma. DC.

84-526. MODEL 676. Fig. B. A DC Microammeter. Has self-contained shunts for 5 DC ranges. Can be used for 20,000 ohms per volt work by using external resistors. 0-50-100-250-500-1,000 microamperes DC.

84-527. MODEL 677. Fig. B. A 10-range DC Voltmeter. 1,000 ohms per volt. All resistors are self-contained. Ranges: 0-1-2.5-5-10-25-50-100-250-500-1,000 Volts DC.

84-528, MODEL 678, Fig. B. An Ohmmeter with self-contained batteries. Ranges: 0-1,000-10,000 ohms; 0-.1-1-I0 megohms.

NET EACH INSTRUMENT..... \$9.70

.\$2.71

EQUIPME

432A DIRECT-READING TUBE TESTER



84-701. Model 432-C. As above but less tool compartment\$19.26

860 "Big Boy" VOLT-OHM-MILLIAMMETER

A sensational new AC-DC Volt-Ohm-Milliammeter engineered in keeping with today's demands for professional-type test equipment. In spite of its many outstanding features, the Model 860 is priced exceptionally low. It incorporates a Triplett 7-inch "Red Dot" Lifetime guaranteed meter with long, easy-to-read 6-inch scales. The D'Arsonval movement is equipped with two genuine sapphire jewel bearings. DC voltage sensitivity is 5,000 ohms per volt. The Model 860 provides 16 ranges as follows: 0-10-50-250-500-1,000 volts DC at 5,000 ohms per volt; 0-1-10-100 ma. DC; 0-1,500 ohms (shunttype circuit); 0-750,000 ohms; 0-7.5-15 megohms; 0-10-50-250-1,000 volts AC at 1,000 ohms per volt. A bar type pointer knob permits convenient selection of the various AC, DC, and resistance ranges. Has a knob-operated control for zero adjustment on the resistance ranges. A special chart supplied with the instrument permits decibel readings against AC volts to be made. Ranges are from —20 to +55. Tester has an up-to-the-minute three-tone metal case with maroon with the instrument permits decibel readings and up-to-the-minute three-tone metal case with maroon datery for 1,500 ohms range. With brackets to permit addition internally of 1—22½ volt battery for 750,000 ohm and 7.5 megohm ranges, or 2—22½ volt batteries which will permit readings on all ranges including 0-15 megohms. See below for batteries. Shpg. wt., 18 lbs. \$ 19.26 84-702, NET.



80-510. No. 4156 Burgess 221/2 volt battery. NET EACH 64c



432A-742 TUBE TESTER AND VOLT-OHM-MILLIAMMETER



An outstanding quality test instrument at a price within the reach of everyone. It combines the Model 432-A direct-reading Tube Tester (described above) with an accurate high an accurate research of the Volt-Ohm-Milliammeter section of the Volt-Ohm-Milliammeter section are: 0-10-50-250-500 V., DC at 1,000 ohms per volt; 0-1-10-100 ma. DC; 0-500 (with 25 ohms at center scale)—100,000 ohms; 0-1.5 megohms and 0-10-50-250-500-2,500 V. AC. The ohmmeter circuit is battery-operated (batteries not supplied) and provides highly accurate resistance measurement scales. Has zero adjustment. Black leatherette-covered case, suitable for both counter and portable use. Removable hinged cover and large compartment for test leads, etc. Silver and black panel. Uses 1—1½ V. Burgess No. 1 and 1—22½ V. Burgess No. 4156. Size 13° x 10½° x 7°. For 110-125 V., 60 cycles AC. Shpg. wt., 20 lbs. Less batteries.

557 BATTERY-OPERATED SIGNAL GENERATOR



A battery operated direct-reading all-wave Signal Generator covering from 110 KC to 20,000 KC in 5 bands on fundamentals. Unexcelled for field servicing and a valuable service shop bench instrument. Individually calibrated plug-in type coils, set a new standard for obtaining laboratory accuracy at low cost. Instrument is completely shielded against all static and magnetic fields. Strong signals, both modulated and unmodulated, are available. Perfect attenuation and stability are outstanding features. Free from frequency drift due to output attenuation or battery voltage changes. Black leatherette case 12*x6½*x5½*. With coils, tubes, batteries and instructions. Shog. vt., 12 lbs... \$20.37 Wt., 12 lbs. 84-708. NET \$20.37

POCKET VOLT-OHM-**MILLIAMMETERS**





MODEL 739 AC-DC

MODEL 739 AC-DC

The Model 739 is a pocket-type volt-olummilliarmneter with AC and DC ranges. It uses a precision Triplett 3-inch square "Red Dot"
Lifetime guaranteed meter. Movement has two high-quality sapphire jewel bearings. Ranges are: 0-15-150-750-1,500 volts DC with a sensitivity of 1,000 olums per volt; 0-500 olums (shunt-type circuit); center of scale reads 25 olums; 0-500,000 olums (series-type circuit) olumn; 0-15-15-150 ma. DC; 0-15-150-750-1,500 volts AC. External batteries may be used for higher resistance measurements. The sturdy molded case with round corners is 3½ x 5½ x 2½". Modernistic silver and black panel. All accessories, including test leads, alligator clips, battery, are furnished. Wt., 5 lbs. \$ 10.67

MODEL 738 DC

A pocket volt-ohm-milliammeter for DC volt-A pocket volt-ohm-milliammeter for DC voltage, current, and resistance measurements. Uses a 3" Triplett "Red Dot" Lifetime guaranteed meter. Reads; 0-15-150-750-1,500 volts DC at 1,000 ohms per voit; 0-1.5-15-150 ma. DC; 0-500-500,000 ohms. Pocket size molded black case with rounded corners, measures 3½6" x 5½" x 2½". Modernistic silver and black panel. With test leads, alligator clips, and battery. Shpg. wt., 5 lbs. \$8.08

POCKET DC VOLT-OHMMETERS





watt-voltmeter to test power consumption of radio receivers, electric iceboxes, household appliances, and motors under actual operating conditions. The tester contains a watt-meter and a voltmeter of the twin instrument type. Line voltage and wattage may be read simultaneously. Wattmeter ranges are 1500 watts at 220 volts and 750 watts at 110 volts. Current rating of the Model 2000 is 7.5 amperes. The dual voltmeter scale provides readings of 0-130 and 0-260 volts AC. Tester has two toggle switches, one to control the two voltmeter scale readings, and the other to protect the wattmeter during the starting period of the motor load. Leather carrying case; 6½*x4½*x3½*. 6 lbs. \$20.84 **MODEL 2001**

84-505. Same as Model 2000 but has switch to permit use with any current trans-former having a 5 amp. secondary for higher wattmeter readings. NET.....\$22,28

MODEL 2002

84-506. Same as Model 2000 but reads to

MODEL 511



MODEL 510

Similar to the Model 511 described above but has scales reading 0-300 V. DC and 0-10,000 ohms. Black wood case only 25% x2 ½ x2 x. With self-contained 3-volt battery for ohmmeter circuit and test leads. 3 lbs. \$2.44

84-707. NET.....\$28.96

TRIPLETT APPLIANCE TESTERS **2000 DUAL**

TESTER

Combination watt-voltmeter

1270A CIRCUIT ANALYZER



The Model 1270A is an advanced electri-cal circuit analyzer that measures the

cal circuit analyzer that measures the wattage consumption, am peres and line voltage of all household appliances and small motors. Ideal for refrigerators, washers, radios, ironers, etc. Low scale smallest of appliances. Ranges of the Model 1270A are: 0-20-500-1.000-2.000-4.000 watts AC; 0-260 ma., 0-6.5-13-26 amperes AC, and 0-130-260 V. AC. Instrument is fused to prevent damage from accidental overload. The Model 1270A axes a 4" square Triplett "Red Dot" Lifetime guaranteed Dynamometer type meter. Black suede enameled metal case measures 7½" x 6½" x 5½". With a detachable strap handle and removable cover. For 2 or 3 wire, 60 cycle AC. For testing 3-wire 220 volt systems, use 84-516 set of two 3-wire male and female connector cables listed below. With leads for 2-wire circuits. Shpg. wt., 14 lbs. 3-wire male and listed below. W Shpg. wt., 14 lbs.

84-501. NET......\$32.18 84-516. Pair of 3 wire male and female connector cables, 4 lbs, PER SET. \$8.62

WE ARE HEADQUARTERS FOR ALL REPLACEMENT PARTS



PRECISION TEST EQUIPM

SERIES EY-10 VACUUM-TUBE MULTI-RANGE

V.O.M. AND SET TESTERS



V.O.M. AND SET TESTERS

This instrument presents a new departure in test equipment. It is a multi-range, electronic volt-ohm-decibel-milliammeter plus a vacuum tube voltmeter. 7" bakelite cased meter-provides complete testing functions of eight separate units. Features high accuracy and simplicity of operation. The 8 zero-center reading V.T.V.M. ranges are: 0±3, ±6, ±12, ±60, ±300, ±600, ±1,200 and ±6,000 volts DC. Input resistance over 13 megohms up to ±600 volts and over 13 megohms on ±1,200 volts and over 14 megohms on ±1,200 volts and over 15 megohms on ±1,200 volts and over 17 megohms on ±1,200 volts and over 18 megohms on ±1,200 volts and over 19 megohms on ±1,200 volts and over 19 megohms on ±1,200 volts and volt range. Resistance ranges are: 0-2,000-200,000 ohms; 0-2-20-200-2,000 megohms. DC. and —26 to +70 db. in 8 ranges. Has 6 circuit probing, zero-center v.T.V.M. ranges: 0±3, ±6, ±12, ±60, ±300, ±600 volts DC through a special coaxial cable test probe. With tubes, probes, battery, etc. Size: 12 x 10½ x 6°. For 115 V., 60 cycles. Shpg. wt., 20 lbs. 44-400. EV-10-MCP. In heavy gauge metal case. 48.95

Terms: \$9.79 down, \$5.39 monthly for 8 months.

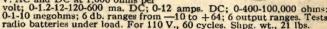
84-417. EV-10-P. As above in portable wood case. CASH...\$52.87 Terms: \$10.57 down, \$5.82 monthly for 8 months.

920 MUTUAL CONDUCTANCE TUBE AND MULTI-RANGE SET TESTERS

RANGE SET TESTERS

A Dynamic Mutual Conductance
Tube Tester plus a V.O.M. and 33
range Set Tester. Uses a large
4%" square meter; 400 microamperes full scale sensitivity.
Tests all Loktals, Bantam Jr.,
"S," Television amplifiers, Regular octals (MG, G, and Metals),
Glass miniature, Hearing aid,
Button-type 7 pin, and Ballast
tubes. Tests miniature screw base
and bayonet type pilot lights. Accommodates all filament voltages
from 1.4 to 120 volts. Sensitive
Neon indicator will detect shorts
and leakages. Built-in double
window roller tube chart. Ranges
are: 0-12-60-300-600-1,200-3,000
V. AC and DC at 1,000 ohms per
volt; 0-1.2-12-120-600 ma. DC; 0-12 amps. DC; 0-400-100,000 ohms;
0-1-10 megohms; 6 db. ranges from —10 to +64; 6 output ranges. Tests
radio batteries under load. For 110 V., 60 cycles. Shpg. wt., 21 lbs.

84-407. 920P. Portable, Hardwood case, 12x13x6".



84-407. 920P. Portable. Hardwood case, 12x13x6". 84-408. 920C. Counter Type. Size, 16x12x8". 22 lbs. \$58.75

Terms: \$11.75 down, \$6.47 monthly for 8 months.



844 VOLT-OHM-DECIBEL-MILLIAMMETER-34 RANGES



845 41-RANGE TESTERS

SERIES 856 44-RANGE SUPER-SENSITIVE TESTERS

WE CAN SUPPLY ALL "Precision" PRODUCTS Send for Complete Precision literature. 37-105. Precision Catalog—Sent FREE

E200 SIGNAL GENERATOR



A Precision Signal Generator covering from 90 KC to 88 MC in 6 bands. Direct-reading full-vision dial, 6½" dia. A vernier permits reading to 1 part in 1,000. Designed for Servicing by Signal Substitution, the E200 supplies AVC voltage which is adjustable to the actual AVC voltage developed by the receiver. A switch provides 4 outputs, unmodulated RF, 400 cycle 0.100% modulated RF, external modulated RF, and 400 cycle audio. Has calibrated RF attenuator. In black ripple steel case. Size, 12" x 10½" x 6". With tubes, Co-axial cable, and a book describing the method of Servicing by Signal Substitution. For 115 V., 60 cycles. 20 lbs. \$39.15 \$7.83 down, \$4.31 monthly for 8 months.

SERIES 832 31-RANGE AC-DC TESTER

SERIES 834, TO 6,000 VOLTS



SERIES 910 DYNAMIC MUTUAL CONDUCTANCE TUBE TESTERS

The 910 employs an exclusive circuit which effectively tests all receiving tubes. The automatic push-button system affords extreme flexibility for non-obsolescent tube analysis and ability to accommodate future tube releases. Dual selector switches locate terminals of all filaments. Uses 3° square meter. Accommodates all filaments. Uses 3° square meter. Accommodates all filament voltages from 1.4 to 120 volts. Accurately tests all Loctal, Bantam Jr., "S, Television amplifiers, Octals (MG, G, and M). Spray shield and Glass types. Roll-type tube chart. Hardwood case. Size: 12° x 13° x 6°. For 115 V., 60 cycles. Shpg. wt., 20 lbs. 84-412. 910P. Portable. 84-413. 910C. Counter. \$37.19 \$7.44 down, \$4.09 monthly for 8 months. \$4-414. Model 910MCP. In open portable-

84-414. Model 910MCP. In open portable-type metal case as illustrated below. Size: 12" x 10½" x 6". 19 lbs. \$33.27

912 TUBE TESTER WITH 45/8" METER

A dynamic mutual conductance tube tester with many outstanding features. Uses a large 4½ square meter. The 912 tests all tubes with filaments from 1.4 to 117 volts. The flexible automatic push-button system and the dual free-point filament terminal selection assures of

040+0 1000000

point filament terminal selection assures obsolescent-free operation. A sensitive neon bulb checks cathode and inter-element leakage and shorts. Tests all portable radio batteries under load. Line voltage adjustment is read directly on meter. The double window roller tube chart provides speedy reference. In open portable metal case, 12 x 10½ x 6". For 115 V., 60 cycles. 19 lbs.

84-416. MODEL 912-MCP. \$37.19 CASH PRICE. \$7.44 down, \$4.09 monthly for 8 months. 84-415. MODEL 912P. Same as 912MCP but in hardwood portable case with cover. 12 x 13 x 6". Shpg. wt.. 19 lbs. \$41.11

58.22 down, \$4.53 monthly for 8 months.



DEPENDABLE TEST EQUIPMENT



MODEL 411 SUPERTESTER

The Dependable Model 411 is one of the most versatile instruments ever produced. It is ideal for television and radio servicing, ham work and general industrial use. Outstanding features are: bakelite jacks providing a large safety margin when measuring high voltages; high current ranges, both A.C. and D.C. for motor work; low ohmmeter range for voice coils; high resistance contacts, etc., and high ohmmeter ranges for checking leaky condensers. Uses a 3" square meter with a sensitivity of 5,000 ohms per volt. Ranges are: 0-10-100-250-1,000-5,000 volts A.C. and D.C.; 0-200 microamps D.C.; 0-10-100 ma., D.C.; 0-400-40,000-4,000,000 ohms; -10 to +69 db. in 5 steps; 0-1-10-25 amps. A.C. Output meter ranges same as A.C. volts. Center reading on low ohm range is 5 ohms. With batteries. Wood case measures 71/6" x 51/2" x 31/2". Wt., 3 lbs.

84-200. MODEL 411. NET... 17.49

84-201. MODEL 411P. Same as Model 411 but in a portable hinged-cover, \$19.35 solid walnut case. NET.....

414P UNIVERSAL MULTITESTER



The Series 414 is a multi-range tester of-fering many unique advantages. The 4½° D'Arsonval meter has a 450 microam-pere movement. A new system for AC measurements pro-vides higher accuracy

new system for AC measurements provides higher accuracy and greater sensitivity than is obtainable with copper oxide rectifiers. The rectifier in the Model 414P is more sensitive, simpler to replace, and more economical. It is not subject to the frequency, wave form and temperature errors inherent in copper-oxide rectifiers. AC scales coincide with the DC scales and so prevent crowding. An outstanding advantage of the 414 is its use as a direct-reading capacity meter. Ranges are: 0-03-3-3-300 mid, in 5 ranges. 5 ohnmeter ranges provide readings from 0 to 15 megohms. Center of low ohm scale reads 2.5 ohms. 5 AC and DC voltage scales from 0 to 5,000 volts. Sensitivity is 2,000 ohms per volt. Six DC current ranges read up to 25 amperes. Also reads inductance from 25 to 1,000 millihenries, and from 25 to 10,000 millihenries, and from 25 to 10,000 millihenries, and meter are fused. For 115 V., 60 cycles. Shpg. wt. 9 lbs., 84-202. Model 414P. Portable model. Size: 9¼° x 12½° x 6°. Solid maple \$25.97

84-203. Model 414. Open face bench type. Size: 9½" x 9¼" x 5½". \$23.47



432 TROUBLE SHOOTER

Here is an instrument that is priced lower than any other type of D'Arsonval volt-ohmmilliammeter. The 432 has the following ranges: 0-5-50-500-1,000 volts D.C. at 1,000 ohms per volt; 0-500-50,000-500,000 ohms with self-contained batteries; and 0-1-10 ma. DC. Center scale reading of low-range ohmmeter circuit is 10 ohms. Not necessary to use test prods for zero-adjusting the 3 ohmmeter ranges. Has an attractive etched panel and a hard wood case with natural finish. 6'x3"x2½". Wt., 3 lbs. \$6.61

84-204. NET....



802 TUBE AND SET TESTER

A high-grade instrument combining an ultramodern tube tester and a V.O.M. The 4½' rectangular D'Arsonval meter with sapphire jewels has extra-long multiple scales in 3 colors. Tube tester section tests all old and new tubes, including miniatures, according to RMA standards and provides filament voltages up to full line voltage; tests all ballasts; hot inter-element short and leakage tests on each individual element; continuous line voltage regulation from 103 to 135 volts; a noise and hum test and individual tests of multi-purpose tubes. Meter protected by fuse. Unique AC voltage measurements have linear scales to coincide with DC ranges. Self contained power supply. The V.O.M. ranges are: 0-10-50-500-1,000 V. DC at 1,000 ohms per volt; 0-1-10-100-1,000 ma., DC; 0-10 amps. DC; 0-500-5,000 ohms; 0-1-10 megohms; 0-10-50-500-1,000 V. AC; —8 to +55 db, in 4 ranges and 4 output ranges, same as the AC volt scales. Low ohm scale reads 5 ohms center. Also checks condenser leakage. Panel in frosted silver, black and blue. Case with hinged cover; 12" x 12½" x 6". Power line is doubly fused. For 115 V., 60 cycles. With test leads. Wt., 12 lbs.

\$29.35 84-205. NET PRICE..... \$29.35

802A TUBE TESTER AND PLUG-IN SET ANALYZER

The Model 802A is a combination tube tester and plug-in set analyzer. It incorporates all of the desirable features of the Model 802 described above plus a plug-in type analyzer unit which is built into the cover of the instrument. The plug-in set analyzer permits voltage, current and resistance measurements to be made at the terminals of the sockets in the receiver. Most measurements can be made while the



at the terminals of the sockets in the receiver. Most measurements can be made while the receiver and circuits are in operating condition. It is not necessary to remove the chassis from the cabinet. The Model 802A is supplied with all accessories, including latch lock adapters, rectifier tube, batteries, test leads, etc. Size: 12 x 12½ x 6". For 115 V., 60 cycles. Shpg. wt., 13 lbs.

\$40.67 84-206. CASH PRICE \$8.13 down, \$4.48 monthly for 8 months.



433 SPEED MULTIMETER

A Dependable Multimeter in extremely compact form. Uses a 3" square meter with a guaranteed accuracy within 2%. Has long, easy-reading scales. Exceptionally low price without sacrifice of high quality. Ohnmeter shorting switch allows convenient zero ohms adjustment. Makes it unnecessary to short test leads. Ranges are: 0-5-50-500-1,000 V. DC at 1,000 ohms per volt; 0-1 ma. DC; back up low ohm scale, 0-500 ohms; conventional, 0-500,000 ohms. The instrument is housed in a handsome hardwood case, 6" x 3" x 23's". Weighs only 21 ounces. Beautifully etched front panel with frosted silver finish. With self-contained battery. Shipping weight, 2 lbs.

86.81 84-207. NET.



446 AC-DC MULTITESTER

The 446 is the equivalent of 25 separate units housed in a single case of convenient size. The 3-inch square D'Arsonval meter with bakelite case has a sensitivity of 1,000 ohms per volt. Ranges are as follows: 0-5-50-250-500-2,500 volts DC; 0-1-10-100-1,000 ma. DC, 0-10 amps. DC; 0-10-100-500-1,000 volts AC; 0-500-100-000 ohms, 0-1 megohm; —8 to +15, +12 to +35, +26 to +49, +32 to +55 db., and 4 output ranges same as the AC volts. Easily read scales on the multi-colored dial. The low range ohmmeter scale is of the low-drain back-up type .nd reads as low as .1 ohm. Center of the scale reads 10 ohms, making it ideal for measuring voice coils, shorted turns, poor contact resistance, etc. A selector switch on the attractively finished front panel provides convenient operation. Case measures 3" x 8½" x 5". Comes with self-contained batteries for ohmmeter ranges. Shpg. wt., 4 lbs. \$10.73

446P AC-DC MULTITESTER

Same as above, but in portable solid walnut case with hinged cover and latch. Set of high-quality test probes included. Case has compartment for test prods, pliers, screwdrivers, etc. Instrument also has a convenient carrying handle. Overall dimensions of case: 8½" x 6½" x 4½". Shpg. wt., 4½ lbs. \$12.25 84-209. NET.....

413 AC-DC POCKET MULTITESTER





413P MULTITESTER

Identical to the Model 413 described above except that it is supplied with a hand-rubbed, piano finish, solid walnut case, with hinged cover and latch. Has compartment for test leads which are furnished.

84-211. NET.....



456 AC-DC UNIVERSAL TROUBLE SHOOTER

The 456 is "tops" in a miniature AC-DC V.O.M. The accurate D'Arsonval meter has a sensitivity of 1,000 ohms per volt. Accuracy guaranteed within 2%. Ranges are: 0.5-50-500-1,000 V. DC; 0-1-10 ma. DC; 0-5,000-500,000 ohms; 0-5-50-500-1,000 V. AC, and —12 to +8, +8 to +28, +28 to +48, and +34 to +54 db. With self-contained battery for all ohmmeter ranges. Has special ohmmeter shorting switch which eliminates the necessity of shorting test lead prods when making zero adjustments. In hardwood case, 6" x 3" x 2½". Shpg. wt., 3 lbs.

84-212. NET.....

456P TROUBLE SHOOTER

Same as the Model 456 described above except housed in a portable hinged-cover case of solid walnut, hand-rubbed. Size of case is 6½" x 3½" x 4½". Shpg. wt., 3½ lbs. 84-213. NET.

COMPLETE INDEX SEE PAGES FOR 198-199

CITY PRODUCTS DEPENDABLE. TEST EQUIPMENT



661 ELECTRONIC MULTITESTER

The Model 661 is an electronic AC-DC vacuum tube voltmeter, ohimmeter and capacity meter, offered at the price of a voltmeter alone. This instrument permits you to make tests on any AM, FM, television, or amplifier circuit while the circuit is "hot." You can make these tests without disturbing circuit constants. A D'Arsonval type meter provides clear, quick readings on the 4½" scale. Meter is accurate to 2% of full scale and multiplier resistors to within 1%. Circuit used affords maximum protection against burnout of meter. Ranges of the 661 are: 0-6-30-150-600-1,500-6,000 volts DC, sensitivity on high ranges is 160 megohms—low ranges, 16 megohms; 0-6-30-150-600-1,500-6,000 volts AC; sensitivity on high ranges, 16 megohms with input capacity of only .0005 mfd.; 0-1,000-10,000-10,000 ohns, 0-1-10-100-1,000 megohms; 0-001-01-01-1-1-10-100-1,000 megohms; 0-001-01-1-1-1-10-100-1,000 megohms; 0-001-01-01-1-1-10-100-1,000 megohms; o-001-01-1-1-10-100-1,000 megohms; o-001-01-01-1-1-10-100-1,000 megohms; o-001-01-01-1-1-10-100-1,000 megohms; o-001-01-01-1-1-10-100-1,000 megohms; o-101-01-100-1,000 megohms; o-101-01-1-1-10-100-1,000 megohms; o-101-01-1,000 megohms;



702 SIGNAL GENERATOR

Continuously variable from 95 KC to 25 MC in 5 bands on fundamentals and to 100 MC on the panel. Tuning is direct or by planetary drive. Output unmodulated or modulated 30% at 400 cycles. Automatic shorting of coils not in use prevents dead spots. 400 cycle supply is available for external use, 6 volt maximum. Has provisions for applying external modulation from outside sweep circuit for oscilloscope work. Excellent shielding by leaded steel case and chassis. Leakage eliminated by separate shielding of coil assembly, attenuator and RF circuits. Attenuation in approximate microvolts by five step ladder-type attenuator, 1 to 500.000. Power supply is electrostatically shielded and thoroughly filtered which eliminates feedback through the line. Doubly fused. Size, 8" x 11½" x 5". For operation on 115 V., 50-60 cycles. Shpg. wt., 15 lbs. \$24.94

415 COIN-MACHINE TESTER



Here is an instrument specifically designed to meet the requirements of coin machine servicing. It quickly and economically tests the electrical circuits of pinball games, "juke" boxes, phonographs, and other coin machine devices and accessories. 3" D'Arsonval type meter. Tests for opens, shorts, socket voltages, AC and DC supply voltages; coils, resistors, chokes, and transformers, condenser leakage, etc. Jacks are provided for headphone testing. Switch selects desired range. Attractive hardwood case, 6" x 3" x 2½. Shope, wt., 3 lbs. \$10.24



803 TUBE TESTER AND V-O-M

A combination tube tester and V-O-M in one compact, portable unit. It employs the famous Dynoptimum circuit for testing all types of receiving tubes and provides for filament voltages up to 117 volts. Has hot inter-element short and leakage tests for individual tube elements. Checks at standard RMA plate voltages and loads. Also has provisions for testing ballast tubes. The 4½" D'Arsonval meter with sapphire bearings has extra-long multiple scales in three colors. Meter is fuse protected. The V-O-M provides the following ranges: 0-10-50-500-1,000 V. DC at 1,000 ohms per volt; 0-1-10-100-1,000 ma., 0-10 amps. DC; 0-500-5,000 ohms; 0-10 megohms; 0-10-50-500-1,000 V. AC; -8 to +55 db. in 4 ranges and 4 output ranges. Has provision for checking condenser leakage. Medium and low ohms ranges are battery-operated. High ranges have self-contained power supply. Case with compartment, 14¼" x 13" x 6". With test leads, 115 V., 60 cycles. Wt., 13 lbs. \$35.23 \$4-217. NET CASH. \$7.05 down, \$5.00 monthly for 6 months.

803A TUBE-SET TESTER

\$9.31 down, \$5.12 monthly for 8 months.

MODEL 506C ANALYZER UNIT



84-219. Model 506. Same as Model 506C described above but less case. NET.\$11.42

417 APPLIANCE TESTER



The Model 417 measures voltage, current, and watts on either AC or DC. All measurements are on 4 easily read scales. Ranges of the Model 417 are as follows: 0-250 volts AC or DC; 0-30-120-600-3,000 watts at 120 volts AC or DC; 0-60-240-1,200-6,000 watts at 240 volts AC or DC; 0-15-25 amperes AC or DC. With power-factor classification chart and correction curves for power-factor Size, 6" x 3" x 23%. \$10.54

and line voltage. Size, 6" : Shpg. wt., 3 lbs. 84-221. NET..... **84-222.** Model 417P. Portable in hinged cover case. 6" x 4½" x 4". 3 lbs.....**\$11.71**

WE CAN SUPPLY ALL "Dependable" PROD-UCTS. Send for Complete Literature. 37-049. RCP Literature—Sent FREE



MODEL 309C TUBE TESTER

A new Dynoptimum Tube Checker providing reliable performance at low cost. 3" square D'Arsonval meter. Tests metal, M.G., glass, gas rectifiers, octal, loctal, single ended, bantam jr, and miniature tubes. Gives filament voltages up to full line voltage. Tests are made under RMA specified plate voltages and loads; considered the finest co-relative test. Provision for audibly checking noisy tubes. A Neon indicator is used for hot inter-element shorts and leakages. Line voltage is adjustable from 105 to 135 volts and is indicated directly on meter, assuring accurate readings. Size 9"x12"x5". For 115 V. 60 cycles. Shpg. wt., 10 lbs.

84-223. Model 309C. \$17.59

84-224. Model 309P. Portable Model. Size, 111/4"x12"x7". 12 lbs. NET...\$19.55 new Dynoptimum Tube Checker providing



MODEL 310P

The famous Dynoptimum Tube Tester combined with the Rolindex Chart in one convenient instrument. Tube tester characteristics are identical with Model 309 listed above. A free tube setting and information service will be supplied for one year to all registered owners. Neon lamp indicates shorts and leakages; jewel light indicates "on" or "off." Line voltage is indicated directly on the 3° square meter. Size 13½ "x13"x4". Shps. wt., 12 lbs.

84-225. Portable-Counter \$25.43

84-226. Identical with above except with

84-226. Identical with above, except with 4½" rectangular meter. 14 lbs. NET \$27.39

MODEL 310C COUNTER TESTER

Sloping front, 3" meter and Rolindex chart, Includes free new tube listing service. Size, 11½"x13½"x1½". \$23.47

84-228. As above but with 41/2" meter. NET\$25.43

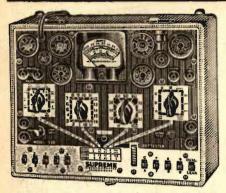
MODEL 313C

A push-button operated tube tester and merchandiser which will enhance any sales counter. The 9" rectangular meter is highly impressive and attractive. Incorporates all the fine features of the Model 310, described above, including the speedy Rollindex tube chart. Full tube data service with one new roll chart is supplied free for one year. Beautifully finished case measures 11" x 18½" x 7½". For 105-135 volts, 60 cycles. Shpg. wt., 18 lbs. \$32.29

84-230. Model 313P. Same as the Model 313C above except in combination portable-counter case with compartment for tubes, tools, etc. Leatherette finish. Size: 12" x 18½" x 9. Shpg. wt., 20 lbs. NET....\$35.23

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.

Est Equipment UPREME



589 TUBE AND BATTERY TESTER

The 589 Supreme Tester provides a complete test of all of the newest as well as all of the older type tubes. Each tube is tested under proper load and correct anode potential. 3 meter with direct-reading scales. The Supreme 589 also checks all 1.5, 4.5, 6, 45 and 90 volt portable radio batteries. Brown luggage-type case with removable cover. Size is 11½ x 9½ x 5½. For 115 V., 60 cycles AC. Shg. wt., 12 lbs. wt. 12 lbs. 84-800. NET CASH. \$32.83 \$4.00 down, \$4.10 monthly for 8 months.

589 IN METAL CABINET

84-801. Model 589. With 7" meter in metal cabinet. Wt., 14 lbs. NET.... \$43.07 \$5.00 down, \$4.33 monthly for 10 months. 84-802. Model 589. With 9" meter in metal cabinet. Wt., 14 lbs. NET... \$46.01 \$55.00 down, \$4.66 monthly for 10 months.

MODEL 589 AND 599 TESTERS

Quality instruments by Supreme incorporating exclusive engineering and design features that anticipate tube and circuit characteristics for years to come. You can buy these instruments with full confidence that they cannot become obsolete. Only Supreme provides the filament Varivolt system; allows the selection of any filament voltage from 34 to highest value used. Supreme continues the "double floating" filament return selector circuit which re-connects all sockets for possible future tube base changes. Tube tester in both instruments provides a sensitive leakage test of all tubes, present and future.

MODEL 599 TUBE AND SET TESTER

Terms: \$5.00 down, \$4.29 monthly for 10 months.

MODEL 599 IN METAL CABINET

84-806. Model 599. With 7" meter in metal cabinet for counter or shop use. Wt., 20 lbs. CASH PRICE....\$53.85
Terms: \$6.00 down, \$4.54 monthly for 12 months.

84-807. Model 599. With 9" meter in metal cabinet for counter or shop use. Wt., 20 lbs. CASH PRICE......\$56.59
Terms: \$7.00 down, \$4.71 monthly for 12 months.



METAL CABINETS

METAL CABINETS

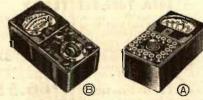
Models 589 and 599 testers are also available in attractive metal cases with 7° or 9° illuminated meters. They may be used in either a vertical or horizontal position by simply reversing the instrument panel. The large meter scales are easily read 4 or 5 feet away from the instrument. Both large meter models have two neon lamps; one has the recommended RMA 200,000 ohm sensitivity; the other has a sensitivity of 2,000,000 ohms which is useful for checking inter-element leakages in tubes where exceptionally low noise and hum level is necessary, such as in highgain audio amplifiers, etc.



MODEL 504A PORTABLE LAB.

MODEL 504A PORTABLE LAB.

A portable testing laboratory combining an up-to-date Tube Tester with a 29-range Multimeter. Push-button selector system. The 504A provides correct filament voltages from ½ to full line voltage. Improved circuit accurately tests all types of tubes. A neon lamp provides two leakage tests. 4" square meter has "Good-?-Bad" scale. The Multi-meter reads 0-5-25-100-250-500-1,000-2,500 volts DC at 1,000 chms per volt; 0-500 microamps., 2.5-10-50-250 ma., and 0-1-10 amperes DC; 0-5-10-50-250-1,000 volts AC; 0-5-10-50-250-\$8.00 down, \$5.98 monthly for 12 months.



POCKET MULTIMETERS

POCKET MULTIMETERS

MODEL 542. Fig. A. Here is an extremely compact, portable pocket laboratory at a very low price. Has a knife-edged pointer to reduce parallax to a minimum. The 3' square meter has an accurate 200 microampere movement with a sensitivity of 5,000 ohms per volt. The 24 ranges of the instrument are as follows: 0-3-6-30-150 ma., DC; 0-6-150-300-1,500 volts DC; 0-2,000-20,000-200,000 ohms and 0-2 megohms; 0-6-30-150-600 volts AC; 4 decibel ranges from —6 to +50, and 4 output ranges which are the same as the AC volt scales. All of the ohmmeter ranges, including the 0-2 megohm range, are operated by self-contained batteries. The durable black molded bakelite case has attractive metal panel. Size only 3' x53/4' x27/4'; weighs only 23 ounces. Supplied complete with self-contained batteries. Wt., 2 lbs. \$17.59

MODEL 543. Fig. B. A compact instrument at a remarkably low price. It uses a full size 3" one mil meter with a sensitivity of 1,006 ohms one mil meter with a sensitivity of 1,00% onms per volt. A single rotary type switch provides the following ranges: 0-15-150-600-3,000 V. DC; 0-6-60-600 ma., DC; 0-15-150-600-3,000 V. AC and 0-2,000-200,000 ohms. Complete with self-contained batteries. Case measures 3"x53/4"x2%". Sing. wt. 2 lbs. \$13.47 B4-816. NET...



MODEL 592 SET TESTER

Double weter sensitivity. Meter movement is 40 microamperes, providing a sensitivity of 25,000 ohms per volt. Also provides voltage tests at 1,000 ohms per volt. 4" square precision meter. Larger wire on moving coil and larger hair springs provide maximum protection. Test prods remain in one pair of pin jacks for all readings except the high amperage range which is provided with special heavy-duty binding posts. Speedy, dependable operation is obtained by the use of 14 push-button switches; simply push one hutton on each side of meter, and any one of 46 ranges is instantly available. Button switches are of the self-locking industrial type. Forty-six ranges are as follows: 0.70-700 microamps., 0.7-35-140-350 ma.; 0.14-14 amps. DC; 0-3.5-7-35-140-350 ma.; 0-1.4-14 amps. DC; 0-3.5-7-35-140-350-700-1,400 volts DC at 25,000 ohms per volt; 0 to 500-5,000-50,000-500,000 ohms, 0-5-50 megohms, all frem self-contained battery supplied with instrument; 0-7-35-140-350-700-1,400 volts AC; 6 Output ranges.—10 to +46 db. Size, 7½*x9*x6½°. Wt., 10 lbs. \$47.53 \$6.00 down, \$4.74 monthly for 10 months.



MODEL 547 MULTIMETER

Incorporates the most convenient method of range and circuit selection. Has a large 7" illuminated meter. The 36 ranges are 0.6-30-150-300-600-3,000 V. DC at 1,000 chms per wolg; 0.6-30-150-300-600 ma. DC; 0.6-30-150-300-600 ma. DC; 0.6-30-150-300-600 ma. DC; 0.6-30-150-300-600 ma. DC; 0.6-30-150-301-600 ma. DC; 0.6-30-150-300-600 ma. DC; 0.6-30-150-600 ma. DC; 0.6-30-15

Terms: \$5.00 down, \$4.87 monthly for 8 months.

826. Same as above but in metal case. CASH...... \$
Terms: \$5.00 down, \$4.53 monthly for 8 months. .\$36.75

549 ELECTRONIC VOLTMETER

84-830. A 28-range volt-ohm-mill iammeter. Reads to 6,000 V. DC; 500 V. AC; 1,000 megohm; 15 amps DC. Has high input impedance of 15,000,000 ohms on DC volts. Center-reading voltage scales. Oak case. \$45.81 \$5.00 down, \$4.64 monthly for 10 months.

84-331. Model 549 Effectionic Voltmeter. Same as 84-830 but in attractive metal case. Wt., 101bs. CASH\$43.07 \$5.00 down, \$4.33 monthly for 10 months.



ALLIED can supply all Supreme test units. This equipment is available on convenient time payments. Write for application blank.

Send deposit with order for quick service.

37-077. Literature on Supreme Instruments—Sent FREE.

LOWEST PRICES-HIGHEST QUALITY-BEST SERVICE

est Equipmen REM



MODEL 562 AUDOLYZER

MODEL 562 AUDOLYZER

The Supreme Audolyzer is the fastest low-priced dynamic test instrument on the market. This new tester actually allows you to hear the demodulated signal from a station or test oscillator at consecutive points as it passes through the receiver. It not only determines the presence or absence of the signal in any part of the set, but it also indicates the quality of the signal, whether it is distorted, whether there is hum, etc. In none of these tests is the receiver de-tuned by the application of the probe. Consists of a high-gain tuned amplifier, covering all RF, IF, and SW frequencies in 5 bands, 100 KC to 15 MC. This enables you to determine the unknown frequency,—oscillator, RF, or IF, to which any circuit is tuned. Complete with demodulator, audio system, and built-in speaker. Also contains a vacuum tube voltmeter with ranges of 0-1-3-10-30-100-300 and 1,000 volts DC, with an input impedance of 15 megohms. Also reads 0-200-2,000-200,000 ohms, and 0-2-20 megohms. Meter is centerreading type, eliminating the necessity of shifting test leads for polarity changes. Leaky, shorted or open condensers can quickly be located without unsoldering them from the circuit. Vacuum tube voltmeter permits gain measurements to be made. AVC and AFC circuit. Vacuum tube voltmeter permits gain measurements to be made. AVC and AFC circuits are readily checked while set is operating. Size, 17% x 9½ x 12². For 115 V., 60 cycles AC. Shpg, wt., 32 lbs. 885.75 \$10.00 down, \$7.19 monthly for 12 months.

\$10.00 down, \$7.19 monthly for 12 months.

DYNAMIC SIGNAL TRACERS



MODEL 561 OSCILLATOR

MODEL 561 OSCILLATOR

The Model 561 offers five types of signal outputs: (1) Variable audio from 15 to 15,000 cycles; (2) Unmodulated RF from 65 KC to 20.5 MC on fundamentals and to over 60 MC on harmonics; (3) Variable audio modulated RF over same range; (4) Frequency modulated RF for visual alignment with a scope; (5) Means for varying the percentage of audio modulation from 0 to 80%. Response is flat ±1 db. from 30 to 10,000 cycles, and down 2 db. at 15 and 15,000 cycles. Power output is 150 milliwatts, and the open circuit voltage is 35 volts. Output controllable from 0 to maximum. Harmonic distortion is less than 5% over entire range. Push-buttons permit selecting 50-500-5,000 or 50,000 ohms output impedances. The 5 RF oscillator ranges are selected by push-buttons. Air-dielectric trimmers and iron-core inductors permit accurate calibration at both ends of each band within ½ of 1% at all frequencies. 6° illuminated dials with shadow-type indicators eliminate parallax. Ladder-type attenuator is variable from ½ to 100,000 microvolts. Has built-in vacuum tube voltmeter. The attractive case measures 17% °x 9¼ °x 12°. For 115 V., 60 cycles AC. Shpg. wt., 33 lbs.

84-836. NET CASH. \$11.00 down, \$7.65 monthly for 12 months.



MODEL 560A VEDOLYZER

A new technique developed by Supreme for dynamic trouble diagnosing. Actually shows wave-form of the signal at any stage of its journey through any receiver. Tests are made where application of ordinary test equipment would be useless. Checks actual operating and signal voltages without disturbing receiver circuits. Easily and accurately determines AVC and AFC performance, oscillator feedback and injection voltages, RF signal and DC operating grid voltages, location, amplitude and frequency of hum. The Vedolyzer contains (1) A broad-band amplifier with a band width from 20 cycles to 2.5 MC. Works into either internal scope or both scope and internal vacuum tube voltmeter. (2) 3" RF and AF oscilloscope with all circuits and controls necessary to measure modulation factor and distortion and view RF and AF wave forms. (3) Balanced bridge vacuum tube voltmeter with the following ranges: 0-2-6-20-600-200-000-0,000 V. DC. 0-3-9-30-9030-900-3,000 V. AC; Ohms, 0-1,000-10,000; 0-1,1-10-100-1,000 megohms. Has decimal-type meter scales. All of the above ranges are selected by means of pushbuttons. (4) Wave analyzer and frequency meter from 65 KC to 6.5 MC. (5) Multiple probe output for checking stages simultaneously. For 115 V., 60 cycles AC. Size, 17% v 13" x 12% v 13" x 12% v 139 v 155.00 down, \$11.69 monthly for 12 months

\$15.00 down, \$11.69 monthly for 12 months



546 3" OSCILLOSCOPE

A real necessity in every up-to-date service shop and laboratory. The use of a cathode-ray tube having a 3" screen provides a more practical instrument than one using a smaller tube. Intermittent operation of a set, hum, sensitivity, over load, wave form distortion, etc., are quickly and easily checked. Visual alignment of RF and IF stages, checking the demodulation characteristics of second detectors and stage-by-stage gain measurements are but a few of the uses. Ideal for use with "signal tracing" instruments. All necessary controls are conveniently grouped on the front panel of the instrument. Sensitive, wide range linear amplifiers produce undistorted output. Supplied complete with instructions. For 115 V., 60 cycles AC.

Size, 12½*x13½*x1½*. Shpg. wt., 24 lbs.

*70.07

Terms: \$8.00 down, \$5.89 monthly for 12 months.

Terms: \$8.00 down, \$5.89 monthly for 12 months.

MODEL 571 OSCILLATOR

MODEL 571 OSCILLATOR

The 571 Signal Generator features extreme accuracy and stability. High "Q" coils plus airdicectric condensers reduce error to less than ½ of 1%. Five bands cover from 65 KC to 20.5 MC on fundamentals. Accurate harmonics are available up to 60 MC. All five fundamental ranges are used on two basic scales. An illuminated dial with a hairline eliminates parallax. Two modulation output levels, 30% and 75% at 400 cycles. RF output on all bands can be controlled from 1 V. to .5 microvolt through a double shielded attenuator. Output may be modulated externally by a phono-pickup or a Frequency Modulator. Oak case, 10½" x 8½" x 8½" as 8½%. Black metal panel with silver and red trim. Completely equipped with tubes, accessories and detailed instructions. For 115 V., 60 cycles AC. Shpg. wt., 19 lbs. \$43.07

Terms: \$5.00 down, \$4.33 monthly for 10 months.



FAMOUS DU MONT CATHODE-RAY EQUIPMENT



MODEL 164 3" OSCILLOGRAPH

Designed for radio service and laboratory use. It has also found great application in field work

application in field work due to its small size, light weight, and low power consumption. Uses a standard 3' tube with a green, mediumpersistence screen. Has separate vertical (V) and horizontal (H) amplifiers. Input impedance V is 1 meg.; H is .8 meg. Frequency range, both V and H, 15 to 30,000 cycles. Sensitivity of V is .28 RMS volt/inch. H is .4 RMS volt/inch. Sweep, 15 to 30,000 cycles. With tubes. Black, wrinkle-finished case, 11½ x 7½ x 13'. For 115 V., 40-60 cycles. Shpg. wt., 25 lbs.

84-750. NET.

168 5" OSCILLOGRAPH.

The Type 168 5-inch oscillograph has a two-stage vertical amplifier. Single stage horizontal amplifier. Connection may be made to vertical plates direct or through one or two stages. Large 5' screen and removable calibrated scale allow accurate quantitative measurements. Two independent power supplies. Sweep circuit range from 15 to 30,000 cycles per second. Size: 151/4 x 8 x 14". For 115 V. 40-60 cycles. With tubes. Wt., 40 lbs. \$124.95 84-751. NET.....



MODEL 208 5" OSCILLOGRAPH

OSCILLOGRAPH

A 5" instrument incorporating many desirable features and improvements. Intensifier type tube insures good trace brilliance. The sensitive wide frequency range amplifiers present a constant input impedance to signals of all frequencies. Cathode-loaded input circuit permits undistorted frequency response regardless of attenuator setting. Input impedance vertical (V) and horizontal (H) amplifiers is 2 megohins with 15 mmfd. load to signal source. Frequency range, V and H, is 2 to 100,000 cycles. Voltage gain, V, is 2,000; H is 43. Sensitivity of V is .01 RMS volt/inch; H is .5 RMS volt/inch. Sweep circuit, from 2 to 50,000 cycles. With all tubes. Size: 14¼ x 81¾6 x 19½". For 115 V., 40-60 cycles. Shpg. wt., 67 lbs. \$164.39

175A 5" OSCILLOGRAPH

Similar to the Model 208 above, but with controls added to the sawtooth oscillator to permit single-sweep control of the horizontal deflection. This makes instrument ideal for the study of non-recurrent transient signals. With tubes. Size: 17 x 12 x 23 1/4". For 115 V., 40-60 cycles. Shpg. wt., 69 lbs. \$226.38

185 ELECTRONIC **SWITCH**

The Model 185 Electronic Switch is an extremely valuable supplementary instrument for use with cathoderay oscillographs. It has been designed for simultaneous studies of such signals as input and output signals as input and output signals of amplifiers, of both phases of push-pull amplifiers, for voltage and current measurements in AC circuits, etc. The 185 consists of 2 amplifiers in parallel, alternately biased to cut-off by a square-wave generator whose frequency may be varied over wide limits. A balance control permits 2 signals to be superimposed for direct comparison or separated for individual study. Switching rate is continuously variable from 6 to 2,000 times per second. There is no phase distortion from low frequency limit to 25,000 cycles per second. Voltage gain is 15 times for both amplifiers. Supplied complete with all tubes. Black wrinkle-finished metal cabines with convenient carrying handle measures 11½ x 7½ x 13°. For use on 115 V., 40-60 cycles lines. Slapping wt., 23 lbs.

84-754. NET.

We can supply all Du Mont cathode-ray equipment. Literature on request. Please men-tion instruments in which you are interested.

EST EQUIPMEN Nodern T

MILLION POPULAR-PRICED TEST EQUIPMENT



DD TUBE & CONDENSER TESTER

The Model DD tests all tubes including the latest Loktal, "S," Bantam Jr., and "hearing-aid" peanut types. The filament switch covers from 1.4 to 110 volts with spare positions for future tubes. The exact condition of the tube under test is clearly indicated on the English-reading "Good-Bad" scale of the accurate D'Arsonval meter. A sensitive neon bulb is used for checking shorts and leakages up to two megohms with tube hot. Tests bypass and electrolytic condensers for shorts and leakage. Also provides for continuity checks, All test circuits are insulated from line. A separate control is used for line voltage adjustments. The Model DD is built to precision standards. Size is 9" x 9" x 5". Has carrying handle and removable cover. With full instructions. For 105-125 V., 60 cycles. Instrument is fused. Shpg. wt., 12 lbs.



MODEL Q SIGNAL GENERATOR

Covers 55 KC to 30 MC in 6 bands on fundamentals and to 90 MC on harmonics. Over 40° of full-vision, easy-reading scales. Provisions for external, internal (40% at 400 cycles), or no modulation. Output from zero to approximately 100,000 microvolts. Has dual attenuators. Separate audio output is available. With tubes. Size: 10 x 10 x 7°. For 115 V., 60 cycles. Wt., 12 lbs. \$24.95

MODEL SG SIGNAL GENERATOR

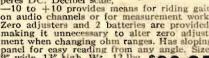
Has same range and outputs as Model Q above. Heavy chassis construction with welded joints. Individual coils and air-trimmers for greatest accuracy. Attentuation does not affect frequency. Size: 16½ x 9½ x 8¾. For 115 V., 50-60 cycles. Wt., 20 lbs. \$38.95

"J" VACUUM TUBE VOLTMETER



A vacuum tube voltmeter with zero-center and zero left voltage scales. Ranges: 0-3-15-30-120-300-600-1.200-3,000. Input impedance, 10 megohms on all ranges. Zero center scales permit positive and negative voltage readings with same prod. Ideal for FM alignment. Ohnmeter reades: 0-1,000-10-,000 ohms; 0-10-100-1,000 megohms. Reads as low as .i ohm. One zero setting and no leads to short on any range. AC volts: 0-6-60-120-300-600-1,200-3,000 at 1,500 ohms per volt, also measures—15 to +6 db. Rugged 4½" meter with 2% accuracy. With tubes, shielded lead and special prod. Size, 7½" x 7" x 10". For 115 V., 60 cycles. Wt., 10 lbs. \$34.95

Designed to provide the Serviceman a large accurate meter for shop use. Alnico permanent magnet in giant 8½" meter provides life-long ruggedness and accuracy. Ranges are: 0.6-120-300-1,200-3,000 V. AC at 800 ohms per volt; and DC at 1,000 ohms per volt; 0.500-500,000 ohms, 0-1-3-30-300-600 ma., and 0-12 Amperes DC. Decibel scale, —10 to +10 provides means for riding gain on audio channels or for measurement work. Zero adjusters and 2 batteries are provided, making it unnecessary to alter zero adjusterment when changing ohm ranges. Has sloping panel for easy reading from any angle. Size, 9" wide, 13" high. Wt., 12 lbs. \$23.95



MODEL GM MULTIMETER



A sensitive high grade moving vane type meter is used with a 2" dial. Ranges are: 0-15-150-450 V. AC or DC; 0-15 ma, AC and DC, and 0-20,000-100,000 ohms. Provision has also been made to measure capacity of condensers from .01 to 20 mfd. Separate rheostat for ohmmeter zero adjustment. Ranges selected by tipplug. No batteries required. Black bakelite case with removable metal back measures 1½"x2½"x3½". With 30" test leads. For 115 V. AC or DC. Wt. 1 lb. \$6.31. "272" PRECISION **VOLT-OHMMETER**





LOW-PRICED POCKET TEST INSTRUMENTS

VOLT-OHMMETERS

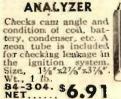
Fig. A. MODEL 271 SIMPLEX. An exceptionally compact, pocket-size test unit, Scale is marked 0-3, 0-30, 0-300 volts, DC, and 0-10,000 ohms. Attractively finished black bakelite case, 15/8"x27/8"x37/8". Meter is of the magnetic vane type having a two-inch dial. Has pin jacks for quick selection of desired scale. Self-contained batteries included. With 30-inch polarized test leads and instructions. Shpg. wt., 1 lb. \$3.12, 84-300. NET

Fig. B. MODEL 10-N-300. Ranges are: 0-300 V. DC and 0-10,000 ohms. Magnetic vane type meter with 2" dial. Ranges selected by means of jacks and a plug. Hardwood case. Size: 2½4"x2½"x1½". Uses 2 self-contained dry cells. With 24" leads and batteries. Wt. 1 lb. \$2.49

"363" UNIVERSAL AC-DC V.O.M.

(B)

AUTO IGNITION





MIDGET PYROMETER

Ideal for determining temperatures of lead and tinning pots, small ovens, hot compounds, etc. Ranges: 0-700-2000 degrees F. A jack and plug changes range. Millivoltmeter has 2's scale. 2% accuracy. Meter hand-compensated for room temperature. A weld-ed iron constantan thermocouple extends approx. 12" from case. 15%"x2%"x37%". Shpg. wt. 1 lb. 84-305. MET

Shpg. wt., 1 lb. 84-305. NET.

MODEL Z POCKET MULTIMETER



The Model Z is a multi-range pocket-size test instrument. Meets the needs of the serviceman for a complete tester of sturdy construction. High degree of accuracy. Self-contained battery. Ranges: 0-6-120-300-1.200-3.000 V. DC at 1.000 ohms per volt; 0-6-300-3.000 V. DC at 1.000 ohms per volt; 0-1-30-300 ma. DC: 0-2.000-500,000 ohms; —10 to +12 decibels. Zero ohmmeter adjuster same for both ohmmeter scales. Single rotary switch selects all ranges except 3,000 V. AC and DC. Metal case with art panel. Size, 2° x 3½° x 6°. Supplied complete with self-contained battery. Shipping weight, 5 lbs.

\$9.45

84-906. As above, but im portable case with hinged cover, 4 x 6 x 3°. With handle and compartment for test leads, etc. NET..................\$10.95

RTL "300" CIRCUIT TESTER



A 46 range push-

A 46 range push-button controlled V.O.M. and V.T. V.M. Ranges on 7" meter are: 0-12-36-120-300-600-1.200 V. DC at 5,000 oh ms per volt on 4.000 oh ms per volt; 0-6,000 V. DC and A.C. at 1,000 oh ms per volt; 0-3-30-120-300 ma., 0-12-12-30 amp. DC; 0-100-10,000 oh ms; 0-1-1-10 inegs.; 6 outputs; 6 DB and 6VU. Also 2 V.T.V.M. ranges, 0-19-20 V. DC. Case 13½ x 1½ x 5½ finished in grey wrinkle with carrying handle. Panel is 3 tone grey, white and red. Accuracy within 2% on DC scales, 4% on AC. For 115 V., 60 cycles. With test leads. Less batteries. 10 lbs. \$39.25

\$7.85 down, \$4.32 monthly for 8 months. 84-931. Battery Kit for above \$1.50

CARRON SIGNAL GENERATOR





type precision signal generator i e a tu r i n g "metered ont-put." Covers a range from 60 KC to 45 MC in six s te ps on fundamentals. A built-in meter indicates the signal intensity applied to the receiver directly in microvolt. Output may be varied from a fraction of a microvolt to one volt. The low attenuator output resistance minimizes errors. KF output has 400 cycle 30% internal modulation, external modulation to 50%. Dial has 6½ feet of space for each sange. In grey wrinklefinish case with beautiful grey, brown and gold panel. Size: 9° x 9° x 7° For Ui V., 60 cycles. Complete with tubes. Shpg. wt., 15 lbs. 84-490. NET. -490. \$43.12



nstruments



SPRAGUE DELUXE TEL-OHMIKE

\$7.99 down, \$4.39 monthly for 8 months.

STANDARD TEL-OHMIKE

AEROVOX 95 LC CHECKER

Measures condensers and inductance under actual operating conditions. Paralleled capacitors may be checked individually. Open, shorted, or intermittent capacitors are easily spotted. The 6-band built-in oscillator covers from 60 KC to 26 MC. Permits aligning RF and IF circuits. Case size, 10½" x 7½". With tubes and accessories. For 115 volt, AC or DC. 8 lbs. 84-150. NET.



75 BRIDGE



POPULAR SOLAR CAPACITOR ANALYZERS

QCA QUICK CHECK

Measures capacity, indicates leakage, RF impedance, power factor, plus dynamic checking for opens, shorts and intermittents in condensers while set is operating—condensers do not have to be disconnected from circuit. Capacity measurements are made by the Wien Bridge method. Three ranges cover .0002 to 70 mfd. Has built-in oscillator and power supply for testing condensers under actual working conditions. Unit may also be used as a continuity meter. Supplied complete with tubes and test leads, ready to operate. Case size, 5½" x 6½" x 4½" high. For 115 V., 60 cycles. Shpg. wt., 8 lbs. 84-173. Model QCA.

MODEL CE **EXAM-ETER**



Performs all functions of the QCA model described at left and incorporates many added features. Built in vacuum tube voltmeter reads 0-600 volts DC in 3 ranges and 0-30 volts AC. Has variable DC voltage supply from 0 to 550 volts. Measures capacities from .00001 to 2000 mfd.; resistance up to 10,000 megohins. Measurements are read directly on scale. The Model CE gives the complete story of a condenser at a glance, eliminates all guess work. Supplied with tubes, test leads and instruction manual. Size: 8½" x 11½" x 5½". For 115 V., 60 cycle. Wt., 15 lbs. 84-170. Model CE. 39.10 \$7.82 down, \$4.30 monthly, for 8 months

SOLAR CB CAPACITY ANALYZER

...\$27.93



CORNELL-DUBILIER CAPACITOR ANALYZERS



MODEL **BF-50**

This instrument quickly and accurately measures important characteristics of all types of condensers. Range from .00001 to 240 mfd. Will determine the exact condition of all paper. mica. and

act condition of all paper, mica, and electrolytic condensers, including AC motor starting types. Employs a Wien bridge. For 115 volts, 50-60 cycles. With test leads. Less tubes; requires 12A7 and 6E5. Size: 6½ x 12" x 9½. Shg. wt. 10 lbs. \$24.40

MODEL BN BRIDGE



An ultra-compact condenser bridge for Service men and Technicians. Quickly and accurately measures capacity of paper, mica, electrolytic, and air condensers from .00001 mfd. to 50 mfd. This instrument indicates by means of a visual eye tube the power factor of electrolytic condensers. Also has many other uses such as continuity meter or check test on defective condensers for opens, shorts, high, low power factor, etc. Wahnut bakelite case. Size 31/6 x 5 x 3 x Less tubes (12A7 and 6AF6G). For 115 volt, 60 cycles AC. Shpg. wt., 3 lbs.

ACCURATE CAPACITOR DECADES

Provide accurate standards over a wide range of capacity. Ideal for Servicemen, Lab Technicians, Schools, etc. Have 600 V. DC—220 V. AC rating. May be used individually or in groups of two or three decades. They all incorporate high-quality capacitor standards. Each decade is furnished with an accurate calibration chart giving exact capacity values for all scale markings, extending use to more precise measurements. Capacity tolerance is within ±5%. Average shop, wt., 4 lbs.

Stock No. 84-452. 84-453. 84-454. Model CDA-5 CDB-5 CDC-5

Ranges in Mfd. NET \$5.29 0ft to 1.0 mfd. in .0001 mfd. steps. \$5.29 1.0 to 10 mfd. in 1.0 mfd. steps. 9.40



RADEX POCKETRACER SIGNAL GENERATOR



An extremely useful, compact in-strument designed for quick an-alysis of circuit difficulties. Work-

MORRISON SIGNAL TRACER



Can be used with any good amplifier for tracing the signal through any radio receiver. Quickly shows where signal stops or becomes weak. Locates noisy or defective parts from antenna to voice coil of speaker. Contains tube and volume control. With leads which attach to any audio amplifier employing 6.3 volt tubes. Complete, less amplifier. Size, 6½" long, 1½" diameter. With instructions. Wt. 11b. 78-040.

CARRON AUDIO BEAT FREQUENCY OSCILLATOR

This instrument is indispensable for providing overall fidelity checks on audio amphifiers and receivers, determination of modulation capabilities, checking for speaker rattle, etc. Covers from 20 to 16,000 cycles per second. Has sinusoidal wave form with maximum distortion under 2%. Output flat within 1.8'db. over range. Has a 5-volt RMS output into a 100,000 ohm load. Grey wrinkle finish metal cabinet 7" x 7" x 9". Full-vision dial. Has built-in 60-cycle calibrator. Uses 2—6SJ7. 2—6C5, 1—5Z4, 1—6U5. Complete with tubes. For 115 V., 60 cycles. W/t., 10 lbs.



\$27.45

KIT OF PARTS FOR ABOVE

83-201. Kit contains oscillator unit, filter, variable condenser, driller chassis, panel and cabinet, hardware, etc. Wt., 9 lbs. NET...\$11.27 83-202. Tubes and Parts. Contains resistors, condensers, transformer, sockets, 2-6SJ7, 2-6CS, 1-5Z4, 1-6U5 tubes. NET.....\$11.93 37-100. Descriptive literature covering above - Sent FREE.

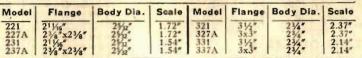
RIPLET PANEL METERS ACCESSORIES

321-221 DC 331-231 AC

TRIPLETT PRECISION PANEL METERS

A very popular line of accurate and fully dependable meters, offered in a variety of sizes and ranges. DC meters have rugged D'Arsonval movement, fully protected against vibration, and accurate within 2%. Polished sapphire bearings set in adjustable screws.

Every Triplett Meter features a metal dial finished in white enamel, with large, easily-read scales in black. Zero adjusting screw accessible from front of meters. In molded bakelite cases. Av. shpg. wt., 1½ lbs. 37-081. Triplett Meter literature, FREE on request.





227A-327A DC 237A-337A AC

DC MILLIAMMETERS

METER

321	327 A	EACH	Ma.	221	227A	EACH
66-100 66-101	66-120 66-121	\$5.04	0-1 0-1.5	66-150 66-151	66-170 66-171	\$4.16
66-102 66-103 66-104	66-122 66-123 66-124		0-5 0-10 0-15	66-152 66-153 66-154	66-172 66-173 66-174	
66-105 66-106 66-107	66-125 66-126 66-127	84 14	0-25 0-50 0-100	66-155 66-156 66-157	66-175 66-176 66-177	52.02
66-108 66-109 66-110	66-128 66-129 66-130	\$4.16	0-150 0-200 0-250	66-158 66-159 66-160	66-178 66-179 66-180	\$3.23
66-111 66-112 66-113	66-131 66-132 66-133		0-300 0-500 0-750	66-161 66-162 66-163	66-181 66-182 66-183	

AC VOLTMETERS

331	337A	EACH	Volts	231	237 A	EACH
66-200 66-201 66-202	66-220 66-221 66-222	\$4 16	0-5 0-10 0-15	66-250 66-251 66-252	66-270 66-271 66-272	\$2.02
66-203 66-204 66-205	66-223 66-224 66-225	\$4.16	0-25 0-50 0-100	66-253 66-254 66-255	66-273 66-274 66-275	\$3.23
66-206 66-207	66-226 66-227	\$5.04 5.94	0-150 0-300	66-256 66-257	66-276 66-277	\$4.16 5.23
66-208	66-228	7.90	0-500	66-258	66-278	7.18

AC AMMETERS

331	337A	EACH	Amps.	231	237A	EACH
66-300 66-301 66-302 66-303 66-304	66-320 66-321 66-322 66-323 66-324	\$4.16	0-1 0-2 0-3 0-5 0-10	66-340 66-341 66-342 66-343 66-344	66-351 66-352 66-353	\$3.23
66-305 66-306 66-307	66-325 66-326 66-327	\$5.04 6.47 8.98	0-25 0-50 0-75	66-345 66-346	66-355 66-356	\$4.16 5.59

DC VOLTMETERS (125 Ohms Per Volt)

321	327A	Volts	EACH
66-370	66-400	0-5	U/ - 15.6
66-371	66-401	0-10	
66-372	66-402	0-15	11.22 50 1
66-373	66-403	0-25	SA TE
66-374	66-404	0-50	\$4.16
66-375	66-405	0-100	4.4.4.4.
66-376	56-406	0-150	
66-377	66-407	0-250	\$5.04
66-378	66-408	0-300	5.94
66-379	66-409	0-500	6.66
(10	000 Ohn	ns Per	Volt)
321	327A	Volts	EACH

1	DC	A	ММ	ET	ER:	5
	337	A	Am	ps.	1	AC

		Amps.	EACH
	66-450		
66-441	66-451	0-5	0.0
66-442	66-452	0-10	Tr. 1100
66-443	66-453	0-25	\$4.16
66-444	66-454	20-0-20	2
66-445	66-455	30-0-30	1 3
AC	MILI	LIAMM	ETERS
331	337A	Ma.	EACH

66-420 66-430 0-10 \$5.94 66-421 66-422 66-423 66-431 66-432 66-433 0-150 0-300 0-500

variety

1	331	337A	Ma.	EACH
1	66-470	66-490	0-10	\$4.86
ľ	66-471	66-491	0-15	37
		66-492	0-50	0
		66-493	0-100	\$4.16
		66-494	0-250	
1	66-475	66-495	0-500	L

TRIPLETT 7-INCH AC-DC FOUNDATION KIT



An accurately-built 7-inch

An accurately-built 7-inch foundation instrument having 25,000 ohms-per-volt DC sensitivity when used with the 66-505 kit below. Dial scale reads: 0-10-50-250 microamperes, 0-1-10-50-250 ma. DC; 0 to 500 ohms (backup circuit), 0-20,000-200,000 ohms; 0-2 meg. resitance scale; AC scale reads 0-10-50-250-1,000 volts at 1,000 ohms per volt. Black dial scale, markings in color. Wt., 3 lbs. 65-500.

TYPE 726. NET.

TYPE 426. Has white dial scale. Readings as

TYPE 426, Has white dial scale. Readings as above. 4"square. Wt., 3lbs. \$12.05

ESSENTIAL PARTS KIT

Consists of all the parts necessary to build a complete AC-DC Volt-Ohm-Milliammeter with either of the meters listed above. Also includes black metal cabinet and test leads. With diagrams, Wt., 5 lbs. \$12.05

PORTABLE FRAME

FOR 3" METERS

CONTINENTAL CARBON TYPE A PRECISION RESISTORS



A new type one-watt carbon resistor, impregnated, and hermetically sealed in glass. For high resistance voltmeter multipliers and circuits requiring real stability. 1½ x/4 dia.

SPECIFY VALUES DESIRED

Ohms	Ohms	Ohms	Ohms	Ohms
100	*4450	10000	75000	400000
200	*4950	13500	85000	450000
400	5000	15000	900:00	490000
500	5500	20000	100000	500000
1000	*5950	25000	150000	600000
*1450	*7450	30000	200000	750000
2000	8500	40000	240000	800000
*2950	*8950	50000	250000	900000
3500	*9950	60000	300000	1000000
4000		6710151		

*These units allow for the 50 ohms internal resistance of the millianmeter.

1-960. Accuracy within 2%. EA... 296 1-980. Accuracy within 5%. EACH.180

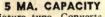
constructing extra-sensitive test apparatus, meters, etc. Sleeve-protected spool prevents wire from raveling or tangling. Convenient small quantities and wide varineet all needs. Shpg. wt., 8 oz., per spool.

RESISTANCE WIRE

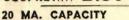
ON HANDY SPOOLS

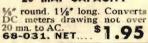
High-grade alloy wire for use in

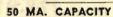
COPPER-OXIDE RECTIFIERS

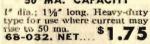














CONANT RECTIFIERS

Type B. Full-wave rectifier. Input M volts R.M.S.; output 5 ma. Size, 4"x4"x3%; 6 02. \$2.06

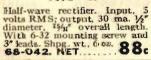


TYPE "M"

Miniature full-wave rectifier for converting DC meters for AC use. Input 10 volts RMS; output 30 ma 6 oz. \$2.06



TYPE "H"





UNIVERSAL





Metal frame for mounting 3" meters with 23/4" bodies. Baked black enamel finish. Completely drilled. Binding posts on top for connecting test leads. Overall height 3/4"; width, 4"; depth at base, 31/4". Less meter.

ALDEN TUBE LEAKAGE



54

For 4, 5, 6 and 7 prons tubes. Will indicate any leakage as high as I megohm. Operates from AC line. Has jacks for using as a continuity tester. With neon lamp, grid lead, cord and plug. Wt., 2 lbs. 78-070.

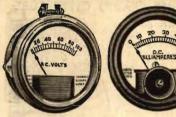
NET \$2.06

Size 16 18 20 22 24 26 28 30 32 34 36 38 40

EACH SPOOL 31c

RADIO HEADQUARTERS FOR DEALERS AND SERVICEMEN

AND METER Eadrite PANEL METERS ACCESSORIES



Standard Type

Zero Adjustment

READRITE PANEL METERS

MODEL 55

Efficient and low-priced. Accuracy within 5%. DC meters are polarized vane, solenoid type. Require 2½ mounting hole. Have
easy-reading white dial and nickel-finish
metal shell. Clamp included to hold meter
tight against panel. Standard terminals
protrude from rear of case. 2½ dia. rim.
For outside flange mounting use No. 65A
flange ring below. Av. shpg. wt., 1 lb.

Here is an important addition to the line of Readrite meters. Model 95 is housed in a black lacquer-finished square case. Measures 2%6"x25%". Wrinkle, nickel, and chrome finishes are also available on special order. Meters require a 2%6" diameter hole for mounting. 37-803. Readrite Meter literature-SENT FREE

MODEL 95



Less Zero Adi.

DC VOLTMETERS

		0 1	MOD	EL 55		MOD	EL 95
			ut Zero tment		Zero		ut Zero tment
Volte	Resist. Ohms	Stock No.	NET Each	Stock No.	NET Each	Stock No.	NET Each
0-1 0-3 3-0-3 0-5	18 135 250 310	67-000 67-001 67-002 67-003	65.	67-050 67-051 67-052 67-053	82.	67-100 67-101 67-102 67-103	88
0-6 0-8 0-10 0-15 0-25	550 850 1475 2700 1625	67-004 67-005 67-006 67-007 67-008	65c 82c 65c	67-054 67-055 67-056 67-057 67-058	82c \$1.00	67-104 67-105 67-106 67-107 67-108	88. \$1.06
0-25 0-50 0-50	7720 3250 15440	67-009 67-010 67-011	\$1.79 .82 2.12	67-059 67-060 67-061	1.97	67-109 67-110 67-111	2.03 1.06 2.35
0-100 0-100 0-150 0-150	6500 30888 9750 46320	67-012 67-013 67-014 67-015	2.12 1.15 2.12	67-062 67-063 67-064 67-065	2.29	67-112 67-113 67-114 67-115	1.21 2.35 1.38 2.35
0-300 0-500 0-750 0-8-160	92640 154400 231600 16200	67-016 67-017 67-018 67-019	2.12 2.91 3.56 1.47	67-066 67-067 67-068 67-069	2.29 3.73 1.65	67-116 67-117 67-118 67-119	2.35 3.15 3.79 1.71
0-60-300 0-15-60- 300-600	92640 180000	67-020 67-021	2.91 3.56	67-070 67-071	345 B	67-120 67-121	3.15

DC AMMETERS

Amps.	Туре	Stock No.	NET Each	Stock No.	NET Each	Stock No.	NET Each
0-1 0-3 0-5 0-10	380 336 381 338	67-130 67-131 67-132 67-133	65 c	67-150 67-151 67-152 67-153	82.	67-180 67-181 67-182 67-183	88
0-25 0-50	382 383	67-134 67-135	\$0.97	67-154 67-155	\$1.15	67-184 67-185	\$1.2
1-0-1 3-0-3 6-0-6 10-0-10 20-0-20	101 303 606 110 220	67-136 67-137 67-138 67-139 67-140	65.	67-156 67-157 67-158 67-159 67-160	82.	67-186 67-187 67-188 67-189 67-190	88.
30-0-30 50-0-50	330 550	67-141 67-142	\$1.29		\$1.47	67-191 67-192	\$1.53

DC MILLIAMMETERS

		MODEL 55				MODEL 95		
		Less Z	ero Adj.	With Z	ero Adj.	Less Z	ero Adj.	
Ma.	Resist.	Stock No.	NET Each	Stock No.	NET Each	Stock No.	NET Each	
0-5 0-10 0-15 0-25	2160 700 295 85	67-200 67-201 67-202 67-203	\$1.47 1.29 .65	67-220 67-221 67-222 67-223	\$1.65 1.47 .82 .82	67-250 67-251 67-252 67-253	\$1.71 1.53 .88 .88	
0-50 0-100 0-150 0-200	22 6.6 4.4 2.6	67-204 67-205 67-206 67-207	65.	67-224 67-225 67-226 67-227	82.	67-254 67-255 67-256 67-257	88.	
0-300 0-400 0-20-100 0-15-150	.8 .46 175-30 305-24	67-208 67-209 67-210 67-211	\$0.65 1.29 1.29	67-228 67-229 67-230 67-231	\$0.82 1.47 1.47	67-258 67-259 67-260 67-261	\$0.88 1.53 1.53	

AC VOLTMETERS*

MO	DEL 5	5	MODEL 95		
Volts	No.	Each	No.	Each	
0-4	67-270	\$1.79	67-300	\$2.03	
0-6	67-271	1.79	67-301	2.03	
0-10	67-272	1.79	67-302	2.03	
0-15	67-273	1.79	67-303	2.03	
0-150	67-274	2.91	67-304	3.15	
0-300	67-275	3.56	67-305	3.79	
0-600	67-276	4.20	67-306	4.44	
0-750	67-277		67-307	5.26	
0-10-140	67-278		67-308	3.15	

PLUG-IN LINE TYPE 0-150|67-280|\$2.91|.....

AC AMMETERS*

M	ODEL	MODEL 95			
Amps.	No.	Each	No. Each		
0-1 0-3 0-5 0-10	67-320 67-321 67-322 67-323		67-330 67-331 67-332 67-333	\$2.03	
0-50	67-324	\$2.44	67-334	\$2.68	

*Readrite AC meters are of the double-vane repulsion type.

ı	N	ODEL	MOD	EL 95	
ı	Ma.	No.	Each	No.	Each
	0-25 0-50 0-100 0-250 0-500	67-350 67-351 67-352 67-353 67-354	\$1.79	67-360 67-361 67-362 67-363 67-364	\$2.03

AC MILLIAMMETERS*

65A FLANGE

Converts any Readrite Model 55 meterto flange mounting. 4 oz.

67-380. 9c

INDUCTION AMMETER

Indicates automobile starter current. 400-0-400 amp. DC. Wt., 1 lb. 67-385.





RESISTANCE METER

MODEL 501



Direct reading: 0-10,000 ohms, 0-4½ volts. Measures resistance and checks continuity in radio and electrical circuits. Requires 3 small flashlight cells. 10 oz. 97c

ACCESSORY KIT

Portable kit for above consists of service test leads, flashlight cells, and meter cabinet. For lab. or servicing. Wt., 2 lbs. \$1.44

RESISTORS

No. 503 Resistor. 1150 ohms resistance to increase No. 501 ohmmeter reading to 60,000 ohms when used with 22½ V. battery. 67-391. NET.

No. 504 Resistor, 2,300 ohms, center-tapped, for use with 45 V. "B" to increase reading of No. 501 ohmmeter to 100,000 ohms. 67-392. With tip jacks. 4 oz. \$1.47

OUTPUT METER MODEL 575

Indicates output voltages for correct alignment of RF and IF stages. Ranges: 0-5, 0-50 volts. Has copperoxide rectifier. In 4½, black metal case. 4 lbs. 67-390-\$5.35

METER DIAL SCALES



For converting 0-1 ma. metters to multimeters. Upper scales are in ohms. H1C is for AC-DC volts, ma. H2C bas DC volts, ma., and also backup ohms scale. H3C is for DC volts-ma. All scales are: 0-50-250-1000. H4C is DC volts-ma. scale: 0-150-300-600. Wt., 2 oz.

Meter	3 C 2
Triplett 321	61
Weston 301	61
Jewell 88	61
Meter	Sca
Triplett 321	61
Weston 301	61
Jewell 88	61

ale H1C 8-000 8-001 8-002 Scale H2C 68-003 68-004 68-005 8-006 8-007 Scale H4C 68-009 68-010 68-011 EACH......19c

MALLORY PANEL LIGHT



Excellent for lighting panel-type meters. Requires single ½" mounting hole. Uses min. screw base bulb. Wt., 5 oz. 38c

UNIVERSAL OUTPUT-METER 4 22 ---ADAPTER



KNIGHT TUBE TESTER MODERNIZER KIT

Modernize your old tube tester! Provides these filament voltages: 25—30—35—50—70—85—117. Only two wires connect to tube checker. Amphenol voltage selector switch mounts on panel or in spare socket hole. Transformer, 3½ x 1½ x 1½, mounts under panel or in tool compartment. For 105-117 volts, 60 cycle. Wt., 1½ lbs. \$1.55

TUBE CHECKER TRANSFORMER

For building or modernizing tube checkers, Provides the following voltages: 1½, 2, 2, 5, 3, 5, 63, 7,5, 12.5, 25, 30, 35, 50, 70, 85, 117. Size: 3½ x 2½ x 2½ Operates from 105-117 volts, 50-60 cycle. Wt., 2 lbs. \$7.49

BEEDE 701 DC MILLIAMMETER

Rugged D'Arsonval type moving coil meters of high quality. Accuracy within 2%. Flush-mounting type housed in 2%" metal case with 31%" diameter flange. Use natural sapphire jewel bearings; zero pointer adjustment on meter face. 68-051 is centër-reading type. Shpg. wt., 2 lbs.

68-050. 0-1 Ma. NET 68-051. 1-0-1 Ma. EACH. \$3.88

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.

KNIGHT METER KITS-ADAPT

KNIGHT-"RADIO CITY" METER KITS



3" 1000 OHM-PER-VOLT METER

High grade 1 ma. foundation meter of the D'Arsonval type. 1,000 ohms per volt. In 3" square bakelite case. Has easy-to-read calibrations and scales. Scales are: 0.5-50-250-500-20.500 volts DC; 0-10-100-500-1,000 volts AC; 0-1-10-100-1,000 ma. DC; 0-1-10 amps. DC; 0-500-100,000-1,000,000 ohms; —8 to +15; +12 to 35, +26 to +49, and +32 to +55 db. With operating instructions and wiring diagrams. An easily-assembled high-quality unit. Shps. wt., 1 lb. \$3.23



PARTS. KIT FOR DC RANGES

68-201. Includes all necessary parts: Drilled metal panel—715/16x4%, switch, 13 jacks, rheostat, 2 knobs, 12 resistors (6 wire wound), 3—1½ volt batteries, solder. With instructions and diagrams. 2 lbs. \$3.09

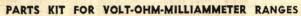
PARTS KIT FOR AC RANGES

68-202. Makes complete AC-DC meter when used with DC kit. Complete assembly designed to fit in case, 68-210 below. Includes all necessary parts: copper oxide rectifier, jack, bracket, knobs, resistors, rheostat, \$1.57 diagrams, etc. 8 oz. NET.

41/2" 5000 OHM-PER-YOLT METER KIT



A foundation meter with a sensitivity of 200 microamperes. The 4½" size permits easy reading on the 3-color multirange scale. D'Arsonval movement on two sapphire bearings. Accuracy is within 2%. Scales read: 0-10-100-250-1,000-5,000 V. DC at 5,000 obms per volt; 0-200 microamps DC; 0-10-100-1,000 mms; 0-10-100-250-1,000-5,000 V. AC; 0-500 ma. AC; 0-2.5-5-25 amps AC. 7½ volt battery for the 4 megohm range supplied with kit below. Meter will also read to 40 megohms with 67½ volt battery (space in case for latter). A chart is supplied showing how to obtain direct measurement of condenser capacities and inductance in henries. Less batteries, panel, resistors, case, etc. Shpg. wt., 1½ lbs. \$7.30



Complete kit of parts for constructing instrument illustrated with above ranges when used with 68-203 meter. Includes a drilled etched metal panel 8" x 10"; 2 batteries, 1—4½ volt, 1—3 volt. Individually calibrated multipliers, wire-wound shunts, selector switch, ohmmeter zero adjust rheostat, rectifier, jacks, knobs, brackets, etc. Use case 68-211 listed below. Instructions and diagrams included. Less 67½ volt battery. Wt., 2 lbs.

89.55



INSTRUMENT CASES FOR ABOVE

Upen face hardwood case for housing meters, test equipment, etc. Panel size, $41/2 \times 8^{3}$; $81/2 \times 5 \times 3^{1}/4^{2}$ overall. Walnut finish, Rubber bumper feet. Less panel. Shpg. wt., 11/2 lbs.

Walnut finished case. Takes 8x10° panel. over-all, 10½x8½x4¼4¼°. Sturdy leather handle; rubber feet. Shpg. wt., 3 lbs. 68-211. \$7,7



AMPHENOL UNWIRED ADAPTERS LOKTAL

Kit of 5 adapters to test any loktal tube except 7E7 or 7F7 or any tube checker. Convert loktals to series. Socket tops

counterparts in octal series. Socket tops coded black, green, gray, blue and yellow. Unvired. Spig. wt. 1 lb. \$1.47

61-521. Same adapters as above but wired. With instructions. Wt., 1 lb. \$2.94

FOR SINGLE-ENDED TUBES

For testing single-ended tubes (control grid at base). Consists of 5 unwired adapters with instructions. Spog. wt., 1 lb. \$1.47'

61-523. Same as above completely wired With instructions. Wt., 1 lb. \$2.94 \$2.94

SPECIAL LOKITAL ADAPTERS

Special adapters for 7 E7 and 7F7 loktal tube base. Wired. With instructions. Wt., 4 oz.

61-530. For 7E7 tube. EACH. 59c

UNIVERSAL TYPE

A new type of adapter. The top coasists of a standard bakelite socket. Any top and any bottom with 61-575 or 61-576 shell will make the adapter you need. The adapter shell is brass, finished in black. It is 11/67 long. Both the top socket and bottom plug may be easily snapped into shell adapter after wiring. Shpg. wt., 6 oz.



	SOCKET (Top)
40-054.	4 Holes EACH
40-055.	5 Holes. 6 12 62
40-056.	6 Holes
40-057.	7S
40-058.	8 Octal 80
40-060.	Loktal
	For Hytron Bantam Jr 150
61-557.	For RCA Miniatures 150
	PLUG (Bottom)
61-570.	4 Prong

	PLUG (BOTTOMI)
61-570.	4 Prong. EACH
61-571.	5 Prong EACH
61-572.	6 Prong. 61
61-573.	7S 020
61-574.	8 Octail80
	Adapter Shell90
	Same as above but; with side hole
for bringing	g out leads

ADAPTERS FOR PHONES-SPEAKER-MIKE & PHONO

FOR SPEAKER AND PHONES Adapter slips under power jube; speaker or phones connect to screw terminals. For PM or Magnetic speaker, headset, or both.

61-585. Fo	r all 4 prong tubes	EACH
	r all 6 prong tube	
61-587. For	all & prong tabes	700
Note: For nus	b-pull tubes use t	wo adanters.

A complete group of adapters enabling you to add extension speaker, headphones, record player, or home microphone to almost any radio. Easily installed in tube socket; will not affect normal operation of radio. Consist of coupler in molded bakelite base, shielded wire, and hardware. Supplied complete with easy-to-follow instructions. There is a type below for practically any need. Shpg. wt., each, 8 oz. FOR MIKE AND PHONO

Adapts radio for connection of phonograph player or pickup as well as "Home Broadcaster" type microphones.

61-600.	5	Prong)	NET EACH
61-601.	6	Prong	
61-603.	8	Prong	72c

KNIGHT-"RADIO CITY" TUBE-

TESTER KIT

An accurate, reliable foundation meter which, with the parts kit listed below, may easily be assembled as a professional type tube tester. Offers an exceptional opportunity for instruction in radio classes in schools and colleges, NYA vocational classes, and Government schools. Also ideal for the engineer or serviceman who wants to save money. The 3" square meter with D'Arsonval movement is accurate within 2%, Calibrated for direct reading: "Good-?-Bad," and alsohas 50-division uniform calibration for reference. With parts kit below will test metal, M. G., glass, gas rectifiers, octal, loktal, miniature tubes, etc. Neon indicator is used for shorts and leakages. Wiring diagram included. Shpg. wt., 3 lbs. \$3.23

COMPLETE KIT OF PARTS

Contains fabricated panel, power and shunt rheostats, sockets, jacks, knobs, transformers, selector switches, resistors, neon light, rectifier tube, control grid cap with lead, mounting bracket, line cord and plug. With detailed wiring diagram, tube test data, and instructions. Shpg. wt. 8 lbs.

68-216. NET.

SLOPING COUNTER CASE FOR ABOVE

68-220. An attractive sloping front counter case to accommodate the complete tube tester when assembled. Of heavy wood, finished in black fabrikoid. Size: 9"x12"x3". \$ 1.76

PORTABLE CASE FOR ABOVE

68-221. Combination portable and counter type case with removable hinged cover and compartment for spare tubes and tools. Fabrikoid covered; 11½"x12"x7".\$3.77 Shpg. wt., 4 lbs. NET....

BUD ANALYZER PLUG AND ADAPTERS

This molded bakelite analyzer plug with small-base adapter kit brings your present kit brings your present analyzer up-to-date. Consists of: 8 prong plug; cable plug and socket; 9 wire cable; dual grid stud; and 61-620-1-2-3-4 acapters below. Wt., 3 bs.

61-610. \$6.47

61-611. Analyzer plug only.
Small 8 prong octal base plug which plugs into adapters.
Dual grid studs.
Wt., 1 lb. NET... \$1.18

61-612. 8 prong analyzer plug, as described above, with 5 feet of 9 wire cable attached. Wt. 2 lbs. \$3.23



ADAPTERS ONLY

Stock No.	Prongs	
61-620.	8 to 4	1
61-621.	8 to 5	NET EACH
61-622.	8 to 6	40
61-623.	8 to 71	68.
61-624.	8 to 75	200
61-625.	8 to Loktal. NET	68c
61-626.	8 to Bantam Jr.	NET 59c

PHONO ADAPTERS & SWITCH

Enable you to connect any record-player or pickup to radio sets not having phono pickup connection. Shpg.wt., 8 oz.

6:1-650. For sets using 5 prong tube (without grid cap on top) as detector or first audio such as 27, 37, 56, 76, etc.

61-651. For sets using a glass or metal type 6H6 as the second detector stage.

61-652. For sets using metal or metal-glass octal base first audio amplifier tubes such as the 6C5, 6J5, etc.

61-653. For screen grid cap tubes, such as the 24A, 6J7, 6R7, 6Q7, 6F5, etc. 79c



EPLACEMENT VIBRATORS

FAMOUS EXACT DUPLICATE VIBRATORS

This listing shows complete line of Mallory 6, 12, 32, and 110 volt vibrators. For use in auto and home radio sets. Order your vibrator by type number if original is a Mallory. If your model is not shown, order your vibrator from ALLIED giving make, model number, and tube lineup of set, and type number of original vibrator.

Mallory No.	Stock No.	List Price	NET	Mallory No.	Stock No.	List Price	NET EACH	Mallory No.	Stock No.	List Price	NET
4-4	56-000	\$1.75	\$1.03	G253	56-035	\$6.00	53.53	508P	56-073	\$2.50	\$1.47
201	56-001	6.50	3.82	253T	56-036	3.95	2.32	509P	56-074	2.50	1.47
F204	56-002	6.75	3.97	253Y	56-037	2.95	1.73	510P	56-075	3.00	1.76
205	56-003	6.50	3.82	264	56-038	4.95	2.91	514	56-076	4.95	2.91
210	56-004	7.50	4.41	270B	56-039	5.95	3.50	716	56-077	4.95	2.91
F211	56-005	7.50	4.41	271HD	56-040	5.95	3.50	722A	56-078	4.95	2.91
220B	56-006	4.00	2.35	271	56-041	5.95	3.50	725	56-079	5.50	3.23
F220C	56-007	5.00	2.94	273C	56-042	5.50	3.23	G725	56-080	6.50	3,82
221	56-008	3.95	2.32	273D	56-043	5.50	3.23	728A	56-081	4.95	2.91
F221	56-009	4.45	2.62	275	56-041	5.95	3.50	742	56-082	4.95	2.91
222	56-010	5.50	3.23	275XS	56-045	7.50	4.41	743	56-083	4.95	2.91
223	56-011	5.95	3.50	277S	56-046	5.95	3.50	744	56-084	3.95	2.32
F223	56-012	5.95	3.50	285XS	56-047	7.00	4.12	745	56-107	12.00	7.06
224	56-013	7.00	4.12	P285Y	56-048	4.95	2.91	G745	56-108	15.00	8.82
225	56-014	5.95	3.50	2865	56-049	5.50	3.23	M745	56-109	15.00	8.82
226	56-015	5.95	3.50	G286S	56-050	7.50	4.41	825	56-085	4.50	2.65
230	56-016	7.50	4.41	289Y	56-051	4.95	2.91	826	56-110	3.95	2.32
231	56-017	7.25	4.26	F290	56-052	5.50	3.23	F826	56-086	4.95	2.91
235	56-018	5.95	3.50	292	56-053	3.45	2.03	G826	56-111	4.95	2.91
H240	56-019	6.50	3.82	294	56-054	2.95	1.73	839	56-087	3.45	2.03
245	56-020	4.95	2.91	294SW	56-056	2.95	1.73	850	56-088	2.95	1,73
245A	56-021	4.95	2.91	F294	56-057	4.45	2.62	G850	56-089	3.95	2.32
245C	56-022	4.95	2.91	296	56-058	2.95	1.73	852/294C	56-055	2.95	1.73
245SW	56-023	4.95	2.91	297	56-059	3.95	2.32	853	56-091	2.95	1.73
G245	56-105	5.95	3.50	F297	56-060	4.95	2.91	854	56-092	2.95	1.73
W245	56-024	4.95	2.91	299	56-061	3.95	2.32	860	56-093	2.95	1.73
W245A	56-025	4.95	2.91	302S	56-062	6.50	3.82	863	56-094	2.95	1.73
246	56-026	4.95	2.91	3115	56-063	7.50	4.41	866	56-095	2.95	1.73
246A	56-027	4.95	2.91	F312	56-064	7.50	4.41	868	56-096	2.95	1.73
W246	56-028	4.95	2.91	500P	56-065	2.50	1.47	869	56-097	2.95	1.73
247	56-029	4.95	2.91	501P	56-066	2.50	1.47	901 M	56-098	2.50	1.47
F247	56-030	5.50	3.23	F502P	56-067	5.95	3.50	902 M	56-099	2.50	1.47
248	56-031	4.95	2.91	503	56-068	3.95	2.32	903M	56-100	2.50	1.47
249	56-032	4.95	2.91	504	56-069	3.95	2.32	951P	56-101	5.25	3.09
G249	56-106	5.95	3.50	505P	56-070	2.50	1.47	952W	56-102	4.95	2.91
F251	56-033	4.45	2.62	506P	56-071	3.95	2.32	953W	56-103	4.95	2.91
253	56-034	3,95	2.32	507P	56-072		1.47	954	56-104	4.95	2.91



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See the new Mallory Encyclopedia
for aid in selecting the proper
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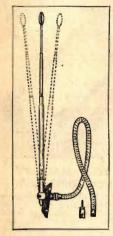
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Name and Model or Part Number	Mallory No.	Name and Model or Part Number	Mallory No.	Name and Model or Part Number	Mallory No.	Name and Model or Part Number	Mallory No.
AIRLINE	3/10	EMERSON	12.	L'TATRO (Cont.) R. S. Q 5636; O. P.		SEARS-ROEBUCK	(Cont.)
6U, 62-118, 62-166	253	965, 667	296	R. S. Q 5636; O. P.		7149 (6 prong)	296
102	299	965, 667 678, 101F7, 34F7	222	4626; M 4616 (2nd	25222.	Part No. 9600	249
8/	292	0A	253Y	Ser.)	285XS	Part No. 14840, 5113.	246
62-199, 5Y (25Y1)	286S	ERLA-SENTINEL		AQ-BQ69, SP-TP67.	744	6303	742
62-202, 62-236,	Therese	10M, 10MF, 11M, 100X, 144X, 197X,	WASH TO THE	MAJESTIC	100	SIMPLEX	
62-242, 62-263	294	100X, 144X, 197X,		66. 116. 116A, 118.		T (Early)	292
ARVIN		144XE, 5500 600, 602, 603	294	118P, 40-18805	220B	T (Early) T (Late), GB, PB	245C
15, 25, 35, 45 1st Ser	296	600, 602, 603	292	MOTOROLA	1750/455	TA	248
10A, 15, 16, 20A.		FADA		Part No. 48A3333	902M	SPARTON	1 2
20B, 25, 30A, 30B,		101, 102, 104, 104B	221	Part No. 48K12312.	903M	Part No. B5417,	
35, 45 2nd Series	292	166 Motoset	253Y	34, 35, 45, 50, 60, 65,	E 6 8 9 10	B5392	292
7, 17, 18, 27, 28, 33, 37, 38, 39, 42, 44C.	201	Part No. 90.63	294	80 90 Part No.		10	292
37, 38, 39, 42, 44C	294	FIRESTONE		80, 90, Part No. 2404, 3316, 48A3333B,		STEWART-WARNER	100000
	2	54, 64, RI31, R133,		48A 3333B	150	Part No. 83371,	292
617B, 627B, 527B	2:45	1314, R1332	294	48K11026	901M	Part No. 83800,	- 1000
Part No. 17-14747	850	R1431, R143, R178	294SW	55, 55A	231	84904, 84995,	204
ATWATER KENT	Toronto	S7407-9	742	56T, 56Y	246	R189	2853
666 776	296	THE RESERVE AND ADDRESS OF THE PARTY OF THE		77	230	R143, R160, R178,	1334.54
126, 136, 237Q, 416,		FORD	nann	44	235	1431 1601-9 1781	2945V
446, 467Q, 556	294	Majestic 40-18805	220B	44. Part No. 1784	253T	R132, R1322	289Y
AUDIOLA		Part No. 38-5036	500P	Dual 6, Twin 8	253	UNITED MOTORS	
C6, 64, 74	294	Part No. 41-3170	505P	496BT1	246A	BUICK-OLDS-	1
23S7, 33S6-7 (2nd)	292	Part No. 41-3398	508P	Super 6, 44A, 66, 77A	270B	PONTIAC	1 - 1
43, 67, 73, 4B, 6C	246	6F1, 6F1D, 6MF49O	850	61, 88	3025	Part No. 5030661	Name of Street
BELMONT		G. E.	DO.C	PHILCO	0020	Part No. 5039661, 5041245	273C
Part No. 126-1, 126-6	294	B40, C41, B52	271*		500P	Part No. 5041376	273D
660 (Vibrator only)	220B	C60	253	Part No. 38-5036		Part No. 7235951,	
Part No. 142-1, 142-1	299	N51, FA60-1, FA80.	248	Part No. 41-3170D	501P F502P	7238525	716
BOSCH	100.000	C61	224	Part No. 38-5640	505P	Part No. 5053699	221
140A, 45A, 45C, 160.	271	D72, N-60, M58, M60	294	Part No. 41-3170		Part No. 5035120	222
Part No. V1-951	253 Y	USI, USS	246	Part No. 41-3315-3	506P 507P	Part No. 1213671.	
150 (1st Series)	210	4SR1A2, (M1-7630)		Part No. 41-3186		11213732, 8638	863
150 (2nd Series)	271	GA62, JA64		Part No. 41-3398 Part No. 83-0017.	508P	Part No. 7237244.	1
178, 736-7-8, 838	294	GRUNOW		83-0025, 83-0026	509P	7238829	868
79C	253		294		510P	Part No. 5050673	852
189HB, 189HR	249	614, 618, 5AB, 508-9		Part No. 41-3367 Part No. 41-3222	951P	Part No. 1213446	249
600	245	625	273D	Part No. 41-3222		Part No. 5054500,	-
CHEVROLET		Part No. 35211	245		P285Y	7232741	514
Part No. 1207758	221	KNIGHT		RCA-VICTOR	T. S. of Street	Part No. 1214832	742
Part No. 5037916	222	F9451, F9541, F9551.		AR-4229	271*	WELLS-GARDNER	1
Part No. 5039661,	the second second	G9515, G9517.	1	BC6-6, BT6-5	245A	6U, 6S, 26S1, 26U1	253
5041245	273C:	G9599, G9881, G9882, T. A9782-3-4, A9820, A9880, B10550, U6,	TO LABOR	Part No. 12236	249	V6Z2, Z6Z1, 06Z	292
Part No. 5040000	294	G9882, T	292	M34, M105, M116 Part No. 7857	271*	072, 072A, 06W, 06X	
Part No. 5041376	273D	A9782-3-4, A9820,	1	Part No. 7857	2865	Part No. 19A25	294
Part No. 5050673	852	A9880, B10550, U6.		M109, H6, M70	294	Part No. 19A30,	1000
F1 . 37- 10100C	(C) 1 (A)	B10575, E10786, E10882-3-4-5-6-7	and the same	M123	224	19A33, P19A30,	
7239124	369	E10882-3-4-5-6-7	294	Part No. 12817	W245A	P19A26	248
7239124 Part No. 7239439,		A9728-9-0, A9776-7-8		Part No. 13688 AVR10, AVR15 (6V),	850	25V1 (5V)	2865
	839	A9861-2-3-4-5-6.		AVR10, AVR15 (6V),	ALCOHOL:	25Y1 (5Y) 5C6, C6, C6A, C6B	952W
CROSLEY	1 Table 10	A10508, B10545-6-	-	M1-7815, EG45A	743	ZENITH	
5A1, 98, 99, 102, 103	223	7-8-9, B10553, L.7		Part No. 30666	728A	Part No. 190-1, 190-2	292
4A1, 5A3, A155, 6B1,	247	X6. Z4. Z5. 6P	245C	Part No. 14309	722A	Part No. P7142-1	296
4A1, 5A3, A155, 6B1. Part No. G7-38000	273C	A9811-12, H9817	285XS	Part No. 7780	253	Part No. 190-5, 190-6	
Part No. G6-38000	853	Part No. P1414	850	Part No. 11140	G286S	190-16 78-141	246
6615, 435, 546, 636	246	Part No. N1236	264	AVR8A, AVR8B	G249	190-16, 78-141 Part No. 190-7, 190-9	294
Part No. G10-38000	850	Part No. 3069, 3698.	. 245A	RC-9, M1-7814	725	Part No. 190-4,	200
DELCO	1000	Part No. F4	. 246	SEARS-ROEBUCK		190-13, 190-14	853
2035 4036	221	Part No. 480	. 245	7128; 101.582, 101.594	ALC: NO SECOND	Part No. 190-11,	10.0.1
2035, 4036	221	Part No. 1381	F251	chassis	294		850
4037, 4038,	ZEZ	And the control of th	1000000			230 10	0,50
626 7 8 0 634 5						Part No 100-9	
626-7-8-9, 634-5 630-1-2-3, 631 A	273C 294	6A, J665, J465, H465		7117, 1859A, 1859	271	Part No. 190-8	W240

AUTO RADIO AERIALS 🎉

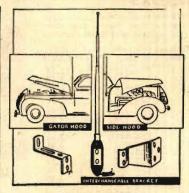
ICA LIFETIME RUSTPROOF AUTO AERIALS



ROCKER AERIALS

A new adjustable swived type aerial. For installation on modern streamlined car. Angle easily adjusted. Weatherproof concealed mounting mechanism. Easy to install; requires drilling of only two small holes. Has 30° shielded cable and universal plug-in attachment. Comes assembled, ready for mounting.

97-000. 2-Section. Extends 23" to 49". Shpg. wt., 2 lbs. \$2.35 97-001.3-Section. Extends 23½" to 72". Shpg. wt., 2 lbs. \$2.65



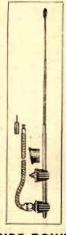
UNI-MOUNT UNDERHOOD TYPE

Constructed of the finest Admiralty Brass with triple-chrome plating. Guaranteed rust-proof for life of car. Equipped with "static discharge" ball tip. Noiscless, rattleproof construction. Dual brackets of special design permit either underhood or alligator-type mounting. Easily installed without drilling holes in body of car.

97-005. The "WASP." 2-section telescopic. Extends from 23" to 49". With dual brackets and 36" shielded, low-loss lead-in. Shpg. \$1.91

97-006. The "CLIPPER." 3-section telescopic. Extends from 23½ to 72". Dual mounting brackets; shielded 36" lead-in. Wt., \$2.62 2 lbs. NET

97-007. The "NEW YORKER." 3-section telescopic. Extends 31½ to 96". With dual mounting brackets and shielded, 36" low-loss lead-\$2.94 in. Wt., 2½ lbs. NET

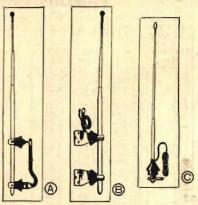


SIDE COWL

Made of Admiralty Brass with triple-chrome plat-ing. Rustproof. 36" shielded cable. Wt., 2 lbs.

97-010. "CHANCEL-LOR." 3-section. 20" to \$2.32 NET..... 97-011. "COMMO-DORE." 3-section. 23½" to 72". \$2.62 97-012. PRESI-DENT." 3-section. 31 1/2" to 96". \$2.94 97-013. "COUNSEL-OR." 4-section. 32" to

KNIGHT AUTO AERIALS



SIDE COWL AERIALS-FIG. A

Mount on side cowl of car. Triple-chrome plat-ing prevents rusting. Spring contacts on all telescopic joints eliminate rattling. Bakelite insulators. 36' shielded lead-ins. Av. wt., 2 lbs.

UNDERHOOD COWL AERIALS—B

Telescopic; of heavy Admiralty Brass and stainless steel. Triple-chrome plated and rust-proof. The 97-105 model has a single mounting bracket; other two models have two brackets. Low-loss lead-in. Av. shpg. wt., 2 lbs.

97-105.	3-section. Extends from \$1.98
97-106.	3-section. Extends from 231/2" to
72". NET.	\$2.29
97-107.	3-section. Extends from 31 1/2" to
96". NET.	\$2.55

HINGE-TYPE AERIALS-FIG. C

Triple-chrome plated over heavy brass and stainless steel. Telescopic. Rustproof and rattleproof. Mount directly on hinge-pin of car door. No drilling. With heavy-duty lead-in cables. Gives high signal pickup. Wt., 2 lbs.

97-110. 2-section. 25" to 48". 36" \$1.59

ICA DELUXE SIGNAL GAINER

Adjustable imped-ance matching unit. Connects between car anterna and receiver. Has pointer knob and calibrated dial for best signal-to-noise ratio. Wt., 1 lb-



AERIAL BOOSTER COILS

This efficient booster coil connects in series with aerial leadin and materially increases signal strength. Easily installed. Shpg. wt., 3 oz.
46-205. For any type auto set.

46-200. NET.....



\$1.15

46-206. For Motorola sets, with special fittings. EACH....

VIBRATOR CONDENSERS

Working voltage, 1600 DC. Conservatively rated. Types marked * have one lead. Shpg. wt., 4 oz.

lead. St	npg,	wt., 4	oz.	07 1600
No. 10-610 10-611 10-612 10-613 10-614 10-615 10-616 10-617 10-618	AAA* ABBB	Mrd. .01 .02 .007 .01 .02 .01 .02 .005 .007	Size 1/16x//5x//4" 1/16x//5x//4" 1/16x//5x//4" 1/2	

FENDER MOUNT CONCEALED AERIAL





58

Specially designed to fit any of the new model streamlined cars. Fittings are constructed so that they may be adapted to any fender contour of any type car and are fully concealed underneath fender. Antenna and lead fittings are permanently weatherproof and secure. Ruggedly constructed of Admiralty Brass tubing with triple chrome plating. Guaranteed to be rust-proof. Comes completely assembled. Easy to install. Equipped with 48" shielded lo-loss lead, mounting clamps, and brackets. Lead is weatherproofed. Shpg. wt., 2 lbs. 97-020. 3-Section. Extends from 3" to 50". NET. \$3.50

DISAPPEARING COWL TYPE AERIALS

NET....

Disappears out of sight between side of cowl and kick pad of car. Manually operated. Easily and quickly installed. Single hole mount only ½" in diameter. Made of Admiralty Brass tubing, triple-chrome plated. Noiseless, rattleproof, and rust-proof. Will not interfere with vision. Has "static discharge" ball on top. Equipped with 36" length of shielded, low-loss leadin. Has universal plug attachment. Fittings will match those of all late cars. Wt., 2 lbs. 97-025. "REGAL." 2-section. Extends 3" to 50". NET... \$2.94

97-026. "DE LUXE." 3-section. Extends \$3.23

SHIELDED AERIAL LEAD-IN



No. 20 conductor, low-loss, copper-shielded cable.

	5 Foot L	ength	25 Foot	Length
Dia.	No.	NET	No.	NET
1/2"	49-401	24c 35c	49-402 49-412	\$1.05
	-			

SHIELDED LOOM For effective shielding.

Inside	5 Foot L	ength	25 Foot	Length
Dia.	No.			NET
3/16" 5/4-"	49-421	27c	49-422 49-432	\$1.18

ASSEMBLED LEAD-IN CABLES

Flexible cable, shielded loom protected, covered overall with black processed braid.

No. Length	Type of Terminals	NET
49-450. 2 Ft.	Male Connector & Gnd. 1	Lead 35c
	Male & Female Connect	
	Male Bayonet, Lug End	
	Male & Female Connect	
	With Chrysler Fittings.	
49-455. 6 Ft.	Male Connector & Gnd.	Lead 590

PLUGS, JACKS, ADAPTERS



Convenient fittings for terminating auto radio antenna lead-in cables. Av. wt., 1 oz.

FOR MOTOROLA—Fig. A
46-210. Pin Plug. NET.
46-211. Shielded Jack. NET...... 13c

LEAD-IN A DAPTERS—Fig. B
46-215. For Philco, Moterola, etc. 15c
46-216. For Buick Sets. NET. 21c
46-217. Fig. C. Lead-in adapter to convert
Motorola lead to Delco fittings. NET... 15c

COPPER SHIELDING

Flexible copper shielding for interference circuits, auto wiring, etc. Av. wt. per ft., 4 oz.

Dia.	5 Foot Length	25 Foot Length StockNo. NET
Open	Stock No. NET	Stock No. NET
1/4"	49-351 12c	49-352 \$0.45
3/16"	49-371 18C	49-372 .70
3/4"	49-381 25c	49-382 1.05

AUTO AERIALS AND ACCESSORIES

LATEST WARD AUTO RADIO AERIALS FLEX-ANGLE-FITS **COWL AND FENDER**

Model E3-68. New type aerials which fit cowl and fender contours. which fit cowl and fender contours. Sturdy, two-bolt single-mount type for easy installation. Simple nut attachment at the base enables antenna to be adjusted through a range of 16° overall so that a vertical antenna can be used with any cowl or fender shape. It's complete with 48° standard waterproof High Q lead and positive-contact Ward "UNI-PLUG" for connecting with all radios. Three sections extend 65°. Requires a minimum of time, tools and labor to install. The Flex-Angle Aerial is ideal for use with all autos, such as Buick. Pontiac, Oldsmobile, Chrysler, Plymouth, etc. Shpg. wt. 2 lbs. \$2.50

97-201. Model E4-90. 4-section, 90' long. NET \$3.20



New and easy-to-mount auto acrial properly fits all modern cars. Lower part concealed by fender. Automatically adjustable for upper and under surfaces. A minute-man installation that eliminates laborious hand fitting. Supplied with 48" double water-proof lead and bayonet adapter. Three chrome-plated type collapsible sections. Concealed lengths: 97-202, 15¼"; 97-203, 18½". For use on all cars, such as Pontiac, Chrysler, Buick, Oldsmobile, Plymouth, etc. Wt., 2¼ lbs. Model OB3-45. 3-section, 45"

Model OB3-45. 3-section, 45" 97-202. maximum length. \$3.09

DELUXE CERAMIC SIDE COWL TYPE

Patented side cowl antennas in 3 and 4 section models using new low-loss ceramic stanchions. Easily mounted on Torpedo and Chrysler bodies with special conversion parts supplied at no extra cost. Scientifically designed for highest signal-to-noise ratio. Shielded lower stanchon minimized. no extra cost. Scientifically designa-for highest signal-to-noise ratio. Shielded lower stancheon minimizes interference. "UNI-PLUG" fits all Motorola and bayonet connectors. With 36" waterproof cable.

97-204. Model 5XXL. 3-section. Extends to 63". Wt. 2 lbs. \$2.20 NET.

97-205. 8XL. 3-sec. Extends 371/2" to 93". Wt., 2 lbs......\$2.50 97-206.151L. 4-sec. Extends 293/4" to 100". Wt., 2 lbs. \$2.91

STANDARD BAKELITE

97-207. Same as 97-204 above, but with molded bakelite stanchions. Has 36' water-proof cable; bayonet adapter. 3-\$1.79 sec. extend to 63''. 2 lbs. NET....\$1.206.

TRI-MOUNT TYPE COWL ANTENNA

97-210. TD3-68. 3 sections extend to 65". 2 lbs. NET....\$2.09 S6-500. Special Alligator Bracket. For Oldsmobile. Shpg. wt., 4 oz. NET... 9c S6-501. Special Underhood Bracket. For Ford and Mercury. Wt., 4 oz. NET... 9c



KNIGHT AUTO RADIO SUPPRESSOR UNITS

For use on any automobile engine. Will cut out practically all ignition interference. Wt., 6 oz. Stock No. Description



WIRE-WOUND SUPPRESSORS

DISTRIBUTOR SUPPRESSOR

.33. T



SUPER DISTRIBUTOR FILTER

Ignition noise filter. Mounts in distributor lead of car. Shpg. wt., 8 oz. \$1.47

FRONT WHEEL NOISE SUPPRESSOR

Eliminates static noise of car's front wheels. Easily installed.

56-680. PAIR. . . . 10c
56-681. With plate for hub cap attachment. PAIR . . 18c



ANTENNA CONNECTOR

For Auto Radio Sets. Terminates Ant. leads. 4. 41-741. Package of 12.

FUSE HOLDERS

- JUSE-12-41-735. Cadmium-plated type separable metal container. Used extensively for auto sets. Takes 1° or 1½° fuse. Measures 2½° x¾° 5. Wt., 4 oz. EACH. 41-736. Package of 12..... .50c 41-790. Large size replacement type fuse holder. Measures 2½"x½". Takes 3AG 12c standard fuses. Wt., 4 oz. EACH. 41-791, Package of 12 \$1.29

(Annuality annuality

CABLE AND HOUSING

Exact cable and housing used by leading fac-tories. Housing Parkerized to prevent rust.

CABLE ONLY (A)

.1310*	.150"	Lgth.	NET
56-700	56-710	18"	\$0.28
56-701	56-711	24"	.35
56-702	56-712 56-713	30"	.43
56-703	THE REPORT OF	36"	.51
H	ousing of	ALY (B)	
56-720	56-730	18"	\$0.28
56-721	56-731	24"	.35
56-722	56-732	3()"	.43
56-723	56-733	36"	.51

AUTO RADIO FILTERS MOTOR NOISE FILTER

CAPACITORS

Metal-cased com-pact by-pass con-densers designed for installation on all sources of inter-

ference, such as generators, ammeters, horns, etci. to eliminate troublesome noise. Use I mid. directly on generator, ½ mid. on ammeter, horn, etc.: ¼ mid. on small accessories.

Stock No.	Mfd.	Size	Ea.	10 For
56-510		5/8"x13/8"		\$1.26
56-511 56-512		5/8"x21/8" 1" x21/8"	22c 24c	2.16
56-512		114"x216"	24c	2.

DOME LIGHT FILTER

56-515* 1/2 15/6"x3" 29c \$2.61 56-516t 1/2 7/6"x2" 24c 2.16 †Condenser only. Choke and condenser.



FORD V-8 CONDENSERS

Especially designed to fit the Ford V-8 dis-tributor-head. Special bracket for distributor head bolts. Eliminates interference. Wt., 8 oz.

-520. Fig. A. For 1934-36. 521. Fig. B. For 1937-41. EACH. 19c



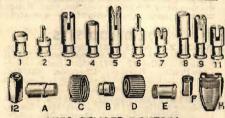
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Eliminates line noises such as hum, hash, or ripple entering auto set through "A" line or other leads. Especially required for auto sets without built-in filters. In metal

case. 2x13/4x7/6". Wt., 8 oz. 56-525, NET 82.

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Exact duplicates for most auto radios. Match old fitting with illustrations and refer to list below for correct item. For .130" cables.

Stock No.	Type	NET	Stoc	kNo.	Type	WET
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56-601	2 3		56-		12	11c
56-602	3		56-			7c
56-603	4 5		56-			6c
56-604	5	7c	56-	613	C	6c
56-605	6 7		56-		DE	6c
56-606			56-			6c
56-607	8	6c	56-6	316	F	6c
56-608	9	11c		1	- 100	
56-617.	Type	e II.	For	Moto	rola.	.130".
56-618.	Type	e H.	For	Moto	rola.	.150°.
NET EAC	H	150	Utolut			.29c

UTO RADIO ACCESSORIES

STAR AND CROWE CUSTOM-MATCHED PLATES



Standard matching auto dash panels. These are panel kits only, consisting of panel, preassembly plates, knobs and all necessary hardware, less cables. Used with control mechanism listed to the right, they will make complete control mounting kits to match your dash. NOTE: Order CROWE panels with CROWE accessories and STAR panels with CROWE, and tube lineup of set when ordering. Average shpg. wt., 10 oz.

STAR	De la Constantina del Constantina de la Constantina del Constantina de la Constantin	CROWE	STAR	THE PARTY OF THE P	CROWE
Stock No.	Car Model and Year	Stock No.	Stock No.	Car Model and Year	Stock No.
57-000	Buick 1938	57-400	57-107	Nash 1939	57-502
57-001	Buick 1939		57-108	Nash 1940	57-503
57-002	Buick 1940		57-109	Nash 1941	57-504
57-003	Buick 1941	57-403	57-115	Oldsmobile '36	57-515
57-010	Chevrolet 1936	57-410	57-116	Oldsmobile '37	57-516
57-011	Chevrolet 1937	57-411	57-117	Oldsmobile '39	57-517
57-012	Chevrolet 1938		57-118	Oldsmobile 1940	57-518
57-013	Chevrolet 1939	57-413	57-119	Oldsmobile 1941	57-519
57-014	Chevrolet Std. 1940	57-414		Olds, '41 late (wood	
57-015	Chev. Deluxe 1940	57-414		grain panel inset)	57-520
57-016	Chevrolet 1941	57-415	57-130	Packard 1939	57-530
57-030	Chrysler 1939	57-425	57-131	Packard 6 and 8 1940	******
57-031	Chrysler 1940	57-426	57-132	Packard 1941	57-531
57-032	Chrysler 1941	57-427	57-133	Packard Clipper 1941	57-532
57-040	De Soto 1939	57-435	57-140	Plymouth Deluxe '36	57-540
57-041	De Soto 1940	57-436	57-141	Plymouth Deluxe '37	57-541
57-042	De Soto 1941	57-437	57-142	Plymouth 1938	57-542
57-050	Dodge 1936	57-445	57-143	Plymouth Std. '39	57-543
57-051	Dodge 1937	57-446	57-144	Plymouth Deluxe 1939	57-544
57-052	Dodge 1938	57-447	57-145	Plymouth Std. 1940	57-545
57-053	Dodge 1939	57-448	57-146	Plymouth Deluxe 1940.	57-546
57-054	Dodge 1940	57-449	57-147	Plymouth Std. &	
57-055	Dodge 1941	57-450		Deluxe 1941	57-547
57-065	Ford Deluxe Early '36	57-460	57-148	Plymouth Spec.	
57-066	Ford Deluxe Late '36	57-461 57-462	57-160	Deluxe 1941	57-548 57-560
57-068	Ford Std. '37 Ford Deluxe '37	57-463	57-161	Pontiac 1937	57-561
57-069	Ford 1938	57-464	57-162	Pontiac 1939	57-562
57-070	Ford Std. '39	57-465	57-163	Pontiac 1940	57-563
57-072	Ford Deluxe '39		57-164	Pontiac 1941	57-564
57-071	Ford Std. 1940	57-466	57-175	Studebaker Pres. '39	57-575
57-073	Ford Deluxe 1940	57-467	57-176	Studebaker Comm. '39	57-576
57-074	Ford 1941	57-468	57-177	Studebaker Pres, and	
57-085	Hudson 112, 118 '39	57-480		Comm. 1940	57-577
57-086	Hudson 1940	57-481	57-178	Studebaker Champ, '40,	57-578
57-087	Hudson 1941	57-482	57-179	Studebaker 1941	57-579
57-095	Mercury 1939	57-490	57-185	Terraplane 1937	57-590
57-096	Mercury 1940	57-491	57-186	Terraplane 1938	57-591
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57-652	10 to 1	710-T1	
57-653	12 to 1	712-T1	1.03
57-654	16 to 1	716-T1	
57-655	20 to 1	720-T1	

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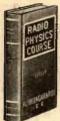
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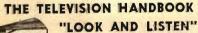
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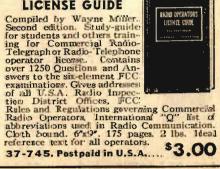
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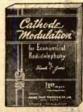
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You don't have to be an expert to get proper P.A. results with KNIGHT Sound Equipment! Anyone who can tune an ordinary radio set can operate any KNIGHT Sound System. Everything is designed for quick connection; microphones and speakers have plugs attached; complete easy-to-understand instructions are furnished. Thousands of satisfied users applied the convenience and easy operation of KNIGHT Public Address Systems.

KNIGHT Portable Sound Systems are really portable. We mean, that for their output, they're more compact in size and considerably lighter in weight than most Public Address equipment. And they're smarter-looking, too. We've pioneered the Portable P.A. System (look at the new "Bantam"—page 69—for example). In KNIGHT P. A. Portables, you get (1) the very last word in easy-carrying, (2) easy setting-up, and (3) easy operation.

IT'S EASY FOR ANYONE TO SELECT THE PROPER Knight SOUND SYSTEM!

HOW TO SELECT YOUR PA COMPONENTS

HOW TO SELECT YOUR AMPLIFIER



The amplifier is the heart of any sound system. You need know only three things about its selection: (1) The usable power output available; (2) Frequency response—the ability to reproduce the tonal range; (3) The degree of accommodation for mikes, phonos and speakers, and the type of control facilities. To determine how much power you need, refer to the chart at bottom of page. Every well-designed amplifier delivers a certain amount of usable power, comparatively free from distortion. It will also deliver a larger (peak) output, but this is only useful on occasional passages. Make sure the amplifier you use has the right amount of usable power. With regard to frequency response, for average requirements, a tonal range of 70 to 7000 cycles per second is acceptable. Anything wider will give you better than average results. Your requirements will determine how many mikes, phonos, speakers, etc., you will need. Make sure the amplifier you select provides adequately for your requirements.

HOW TO SELECT YOUR SPEAKERS & BAFFLES



Just refer to chart at bottom of page for the recommended size and number of speakers you will need for any given installation. Generally it is better to use more than the minimum number of speakers specified to do the job, because you get better spread and adequate sound coverage. The Chart also indicates proper baffle choice. Three types are generally used: (Fig. A) Flat type, for widest sound spread; cases, inclined wall baffles and boards are in this group; (Fig. B) projector type, for directing sound farther out along a narrower channel; (Fig. C) trumpet type, for focusing sound in a narrow far-reaching beam. For maximum results, choose the type of baffle that best answers your need.

HOW TO SELECT MICROPHONES

All the modern microphones we offer are satisfactory for average use, and you don't have to worry too much about the type you pick. But there are some particular advantages in different types of mikes that you ought to know about. At the present time there are four general types of microphones that are widely used. They are the new Uni-Directional types which incorporate the one-direction pickup principle, and the Crystal, Dynamic, and Velocity types. (Complete descriptions of leading makes of each of these microphone types will be found on pages 93-96.)

Uni-Directional Micro-

Uni-Directional Micro-phones. These are the finest new type mikes for PA use. Because they pick up sound from one direction only, they give excellent results where excessive feedback (howling) or your acoustics are encounor poor acoustics are encoun-tered. Uni-Directionals are available in Crystal, Dynamic and Dynamic-Velocity types.

and Dynamic-Velocity types.

Standard Crystal & Dynamic Mikes. These types pick up sound from all directions and give good results where feedback and room acoustics are not critical problems. The Dynamic type is considered somewhat more rugged and is well-adapted for outdoor and portable work. Crystal mikes are, however, widely used with satisfaction for most general PA work.

Velocity Mikes. This type is

for most general PA work.

Velocity Mikes. This type is bi-directional, picking up sound from front and back only (they are dead at sides). They give better results than standard Crystal and Dynamic types where excessive feedback and poor room acoustics are encountered. However, the Velocity mike is not as effective locity mike is not as effective as the Uni-Directional type in reducing feedback.



Uni-Direct.



Crystal



Dynamic



Velocity

HOW TO USE THE CHART

It's easy to use the chart that's shown at bottom of this page. To quickly determine the KNIGHT Sound System best suited for your needs: (1) Measure the length and the width of the area you desire to cover. (2) Multiply these two figures to determine the total number of square feet to be covered. (3) Locate on the chart in the column headed "Applications" the use for which your system is intended. (4) Run your finger across until you reach the column including the square foot area obtained in Step 2. (5) The system you need is that indicated at the top of the appropriate column. It's easy to use the chart that's shown at botpropriate column.

Example: Suppose you want a KNIGHT Sound System for a ballroom measuring 100 feet long and 50 feet wide. This is a total of 5,000 square feet (100 x 50=5,000). Reference to the chart shows that you require a 14 or 15 watt system with 2-12" speakers in wall baffles. If the location happens to be unusually noisy, order the next larger system—the 20 watt unit shown in the next column.

NOTE A. If you know how many persons will be present and do not wish to measure the area, allow about 6 square feet per person.

B. If your location includes a balcony, or if you wish to place extension speakers in adjacent rooms, add these areas to the main area for the total.

C. If your system is to cover a number of applications, choose the system required for the largest area. A larger system will easily cover smaller areas, but the re-verse is not true.

D. If you wish to cover two applications simultaneously—e.g., school auditorium and the athletic field—first find the size of the system required to handle the auditorium alone; then find the size required for the field. Be sure to choose a system having a power output equivalent to the sum of both (or use two separate amplifiers).

THIS CHART SHOWS YOU HOW TO CHOOSE THE RIGHT SYSTEM..

You don't have to feel any hesitation about ordering the Public Address equipment you need. We've taken the mystery out of PA selection for you. If you study the easy-to-understand chart below, and read the simple facts we give above about all the essential PA components, you'll be able easily to choose the right Sound System that will best serve all of your Public Address requirements.

ALLIED'S engineers are always ready to help you. If your requirements are specialized and are not covered by the chart, write to our Sound Engineering Division, giving complete details and (if possible) enclose a rough sketch. Competent advice and price quotations based on careful study of your needs, will reach you promptly. Don't hesitate to write to us on any type of Public Address problem.

Applications _	7 Watts (See p. 68)		14-18 Watts (See pages 70, 71, 76)		20-30 Watts (See pages 69, 72, 77)		60 Watts (See pages 74-75)					
	Area sq. ft.	Spkr.	Baffle	Area sq. ft.	Spkr.	Baffle	Area sq. ft.	Spkr.	Baffle	Area sq. ft.	Spkr.	Baffle
Armories and Barracks	1000 to 2900	1-8*	Wall	2900 to 7200	2-12*	Wall	7200 to 14,000	2-12*	Proj.	14,000 to 39,000	2-4 Knight Trumpets	
uditoriums k Banquet lalls	1000 to 4000	1-8*	Wall	4000 to 7800	2-12*	Wall	7800 to 20,000	2-12*	Wall	20,000 to 66,000	4-12* Proj.	
Ballrooms & Dance Halls	1000 to 2900	1-8"	Wall	2900 to 6600	2-12*	Wall	6600 to 14,000	2-12*	Proj.	14,000 to 39,000	4-12"	Proj.
Carnivals & Fairs				1000 to 3600	2-12*	Proj.	3600 to 8000	2-12*	Proj.	8000 to 50,000	2-4 Knight Trumpets	
hurches	1000 to 2900	1-8*	Wall	2900 to 7800	4-8'	Wall	7800 to 20,000	8-8"	Wall			
actory aging Noisy)	500 to 1150	1-8"	Proj.	1150 to 2400	2-12*	Proj.	2400 to 6500	2-4 12*	Proj.	6500 to 12,500	2-4 Knight Trumpets	
uneral arlors	500 to 1150	1-12"	Bass Reflex	1150 to 3000	1-12"	Bass Reflex	3000 to 6500	2-12"	Bass Reflex	6500 to 12,500	4-12"	Bass Reflex
Night Clubs & Taverns	1000 to 2900	1-8'	Wall	. 2900 to 7200	2-12*	Wall	7200 to 14,000	2-12*	Wall			
Outdoor Adv. k Meetings	22/10-0			1500 to 4800	2-12*	Proj.	4800 to 10,000	2-12*	Proj.	10,000 to 66,000	2-4 Knight Trumpets	
Roller Skating Rinks							2000 to 6000	2-4	Proj.	6000 to 39,000	2-4 Knight Trumpets	
tadiums, Athletic Fields, Race Fracks	Areas given are those of Grandstand or Bleachers.				3000 to 8000	2-12' 2 Trumi	Proj.	oj. 8000 to 4-6 Knight Trumpets				
store & Office Paging, Classrooms	1000 to 4000	1-8"	Wall	4000 to 7800	2-12"	Wall	7800 to 20,000	2-12"	Proj.	20,000 to 50,000	4-12"	Proj.

Knight 7 WATT De Luxe SYSTEMS







COVERS UP TO 700 PERSONS COVERS UP TO 4000 SQ. FEET





DEMONSTRATORS





RESTAURANTS

AUCTIONEERS

Choice of Mikes: In place of mike shown, you can have your choice of 99-332 V-1 Velocity or 99-334 Knight 631 Dynamic, at \$4,00 additional. See pages 91 to 93 for descriptions.

- With Inverse Feedback
- Universal Mike-Phone Input
- Bass-Treble Tone Control Beam Power Output Stage Built-in Field Supply

- Fully Fused for Protection Illuminated Control Panel
- With Mike-Phone Fader

7 WATT "Little Giant" PORTABLE

Here's your "Best Buy" in a compact and versatile Portable Sound System! You get more for your money in quality, features, and service. Prove it to yourself—try this top-notch system for 15 days (see page 66), and get the kind of PA satisfaction you want!

Easy to Use. Just set it up and use it in a jiffy! You don't have to be an expert to get perfect results.

Universal input. Takes any high-impedance microphone or phono. Has microphone-phono fader; controls volume, and fades from mike to phono as you want it.

Inverse Feedback. Permits you to work system at higher output with better quality and less distortion.

Tone Control. You can emphasize bass or treble to suit yourself. Helps reduce feedback.

Illuminated Panel. Used only in quality equipment. Fully lighted slant panel gives you easy visibility anywhere.

All These "Plus" Features. Has socket provision for extra PM or magnetic speaker or headphones. You can't make a wrong connection because both mike and speaker receptacles are polarized. Amplifier is fuse-protected.

Complete Portable System. Comes complete in compact single-unit portable case, 13½ x 13½ x 10½ . Carrying weight, 31 lbs. Includes: Knight 7-watt amplifier, with tubes; Shure Crystal microphone on desk stand, with 25-foot cable and plug; 8-inch Dynamic speaker with 30-foot cable and plug. For operation on 110-120 volts, 60 cycles AC. Shpg. wt., 36 lbs. \$2650

93-020. Extra 8' Speaker, transformer, 30' cord and plug, in portable case. Shpg. wt., 10 lbs. NET,....\$8.45
For 25 cycle operation (all 7 Watt Systems), add \$6,00

AMPLIFIER SPECIFICATIONS

Output: Full 7 watts usable power (12 watts peak); hum is inaudible (67 db. below rated output); Output Impedance: 4000-4500 ohms direct from plate of tube; supplies field excitation to one 1235 ohm speaker; Input Channels: Two on fader (one for mike, one for phono); Tone Control: for bass and treble; Gain: on microphone, 100 db., on phono, 70 db.; Frequency Response: 70-7000 CPS; Tubes: 1-6SC7, 1-6L6G, 1-5Y3G; Line Drain: 70 watts; Fused: for operation from 110-120 volts, 60 cycles AC. Size: 10' x 8%' x 6%'. E.R.P.I. Licensed.



Knight 7 WATT DeLuxe ALL-PURPOSE SYSTEMS

If you're looking for a dependable PA System to take care of those smaller, permanent installations, you'll be right with these "Little Giant" Systems. Don't take our word for it. Our 15 Day Trial Offer gives you a chance to prove it for yourself. System 93-014 is ideal for permanent installations. System 93-015 is offered less baffle, to work with present baffle equipment or with baffle of your own choice.

Complete All-Purpose System. Includes: 1-Knight 7 Watt Amplifier with tubes; 1-Shure Crystal Microphone, 25-foot cable and plug on desk stand; 8' Speaker with 30-foot cable and plug; wall baffle; complete operating instructions. For 110-120 V., 60 cycles AC. Shpg. wt., 34 lbs.

93-014.

NET PRICE.

\$2415

93-015. Basic System. Same as above but less baffle. Wt., 321bs. \$22.65

93-021. Extra 8' Speaker with 30-foot cable, plug and transformer, Shpg. wt., 6 lbs. NET\$4.50 For Floor Stand (94-000, page 93) in place of Desk Stand, add \$2.60



7 WATT AMPLIFIER ONLY

The Knight 7 Watt "Little Giant" amplifier is also available separately, with all features as described at left. Makes an ideal nucleus for assembling your own sound system, or a fine replacement for obsolete amplifiers. Comes complete with protective steel cover and handle. Has streamline base with slant-protected illuminated instrument panel. Has wiring diagram on base plate. Two-tone grey-crackle finish. Size: 10' x 8'/x x 6'/4'. Less tubes. Shpg. wt. 12 lbs. 93-011.

Sensational NEW 20 WATT "Bantam" PORTABLE





COVERS UP TO 2.000 PERSONS COVERS UP TO 12,000 SQ. FEET





LECTURES







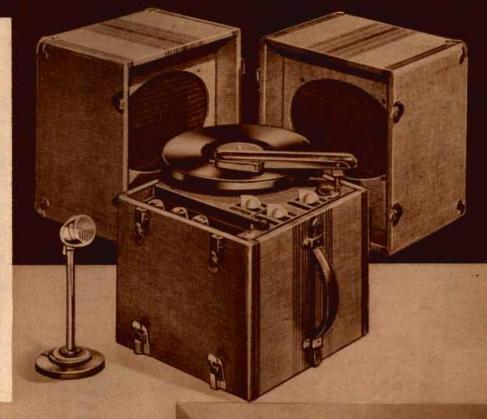


SCHOOLS

CHURCHES HOTELS STORES

ORCHESTRAS

NIGHT CLUBS TAVERNS CLUBS **EVANGELISTS**



- Only 24' x 101/4' x 101/4 Three Input Channels
- With Tone Control
- **Built-in Phono**
- **Dual Phone Input**
- Inverse Feedback
- **Universal Input**
- **Elliptical Speakers**

Complete 20 Watt

EASY TERMS-15 DAY TRIAL See Details on Page 66

They said it couldn't be done—but here it is—the very first moderate-powered Sound System in the tompact portable form everyone in PA has wanted for years! It's new, it's complete, it's ingenious. See for yourself has wanted for years: It's new, it's complete, it's ingemous, see for yourself the thought, the hard-headed research that has gone into the design of the 20 Watt "Bantam" to make it the first truly practical portable on the market. Look at the illustrations—notice the simplicity of the design; see how the weight balance is perfectly distributed; note the clever hinges we've developed to eliminate speaker case rattling. We've worked out every detail for you so that you will find the "Bantam" the most practical portable you've ever used—easy to carry, easy to transport, easy to set up and use.

You've Wanted the "Bantam" For These Uses. Sound Men—here's the perfect Rental System—all the power you need for most jobs—yet in a new portable form that's easy to transport, that sets up anywhere in a few minutes, and saves you time and money. Schools—there's never been anything like the "Bantam" for convenience; transfer it in a jiffy from classroom to classroom; use it in auditorium or gym; it's unbelievably flexible and practical, yet it has all the power you need. Orchestras—here's quality, plus a portability you'll appreciate; takes up less space than a suitcase in a car, no bigger than a small instrument case. Lecturers, Demonstrators—here's the logical PA System for your needs—easiest to carry, quickest to set up and use.

Amplifier Specifications: The specially-designed amplifier unit with phono top is housed in the compact center section of the case. Amplifier has 20 watts usable power output (26 watts peak); hum is inaudible (55 db. below rated output). Output impedance, 4 and 8 ohms; supplies field excitation for the two 2500 ohm speakers included in the system. Has three input channels: one for high-gain mike with individual control; two for phonograph, with fader. Includes bass-treble tone control. Gain on microphone is 127 db., on phono 70 db. Frequency response is 50-10,000 CPS. Tubes used are: 1—66J7, 1—6SC7, 2—6L6, 1—5T4. Line Drain is 160 watts. Fully fused; for 110-120 wolts, 60 cycles AC. E.R.P.I. licensed.

Inverse Feedback. You get greater output and better tone quality. You can work the system at higher output levels because distortion and hum are cut down.

3 Input Channels. Use high-impedance mike along with any two phono pickups. You control mike and one pickup separately. Phonos are on fader.

Bass-Treble Control. Gives you the tone emphasis you want on mike and phono; reduces feedback. Turn knob to right for high notes, to left for low notes.

Bullt-in Phone. The "Bantam" includes built-in phone; has gear-drive G.I. 78 RPM motor and new low-pressure Shure Crystal pickup. New Elliptical Speakers. Latest type elliptical-shaped Dynamic Speakers make it possible to achieve exceptional case compactness and wide-fidelity tone.

Complete "Bantam" Portable. Includes: 1—Knight 20 Watt Amplifier, with tubes and built-in phono; 1—Shure Crystal PA Microphone with 25-foot cable on desk stand; 2—10' Elliptical Speakers with 25 foot cables and plugs attached; complete instructions. Entire system is housed in a compact, beautiful case, finished in brown air-luggage cloth; size is only 24' long, 10'4' high, 56495 93-080. NET CASH PRICE
Terms: \$12.99 down, \$7.15 monthly for 8 months.

If Floor Stand is desired in place of Desk Stand on above system, add \$2.60

AN EXCLUSIVE Knight TRIUMPH! MOST COMPACT PA EVER BUILT!



COMPACT AS A SUITCASE

The entire "Bantam" System, when assembled as one case, contains everything necessary for operation—yet it measures only 24" long, 10¼" wide, and 10¼" deep—actually smaller than an ordinary suitcase. You'll find the "Bantam" easy to carry because of its functional proportions and perfect weight distribution; it's easy to transport by car; takes up minimum space.



Knight 14 WATT De Luxe SYSTEMS WITH



JUST CHECK THESE FEATURES:

- Inverse Feedback
- 2 Input Channels
- Universal Input With Series Mixer
- Bass-Treble Control
- . Beam Power Output
- Safused Speaker
- Speaker Selector
- **Illuminated Panel**
- Optional Phone Top **Dual Output Sockets**
- · Fused For Safety

Knight 14 WATT PORTABLE SYSTEM



Here's the kind of Portable PA System you'd Here's the kind of Portable PA System you'd plan for yourself—with all the features and built-in performance you need—at the price you want to pay. The power rating is 14 usuble watts and that means you get 14 watts without a sign of "cracking up." This popular power rating covers hundreds of important PA uses (see chart on page 67). The features are practical, and you'll actually use them on the job. The price will give you the biggest surprise-because it's low for the quality you get—but because it's low for the quality you get—but our 15 Day Trial Offer will convince you that you're getting a supreme PA value.

Easy to Set Up and Uss. The 14 Watt Portable is as easy to operate as any ordinary radio set. You don't have to be an expert to get perfect results. It sets up in just a few minutes because it's really designed for convenient portability and easy operation; anyone can get the right operating results every time. There's nothing to add—nothing more to buy—the 14 Watt Portable is complete!

Inverse Feedback. An "expensive-equipment" feature. Gives you greater output, better tone quality. You can work the system at higher output levels because distortion and hum are cut down to a minimum. It's a feature you'll appreciate.

Amplifier, less tubes and phono top

2 Input Channels. You can use any high-impedance Crystal, Dynamic, or Velocity mike, along with any phono pickup. Each input channel has separate control, and both channels may be mixed or blended as desired.

Bass-Treble Control. Gives you the tone emphasis you want, on both mike and phono. Helps cut down feedback. Easy to use: turn knob to right for high notes; to left for low notes.

Universal Output. Amplifier has built-in output transformer with a wide range of output impedances. You can use any variety and number of extra speakers. Line tap permits use of speakers at greater distances.

Speaker Selector. You can match additional dynamic speakers of any make instantly by adjusting the special output selector. No guesswork—you just set where volume and quality are best—it's as simple as that!

Safused Speaker. An exclusive Knight feature. Speaker supplied with System is specially fused for protection against overload. Absolutely prevents any electrical damage to the speaker.

Illuminated Panel. Another exclusive Knight feature that's a real practical help. Panel is slanted for easy control and inset for protection. It is fully flood-lighted so you can operate even in dark places.

Optional Phono Top. Originated by Knight. You can buy the system with matched built-in phono top; has rim-drive 78 RPM motor, 9' turn-table, new Shure offset-head Low Pressure Crystal pickup, switch, arm-rest, needle-cup. Say goodbye to trailing wires, extra phono cases, etc.

And These "Plus" Features. More for your money, and here's the proof: Grip-tite receptacle prevents accidental mike plug removal; Dual Output Receptacles—six contact type—for positive connection. Fuse—protects the amplifier; AC input is tapped for line voltage adjustment to safeguard output level; has diagram on base plate.

COMPLETE 14 WATT PORTABLE SYSTEM

Complete System includes: 1—Knight 14 Watt Amplifier with tubes (less phono top); 1—Shure PA Crystal Microphone with 25-foot cable, on desk stand; 1—12' Safused Dynamic Speaker with 30-foot cable and plug; complete instructions. All components fit in compact split-carrying case. 22½' x 19¾' x 15'. Weight is only 53 lbs. For 110 volts, 60 cycles AC. Less phono top. Shpg. wt., 63 lbs.

93-034. NET CASH PRICE.

Terms: \$8.65 down, \$4.76 monthly for 8 months.

THE FEATURES YOU WANT - At Low Cost:



COVERS UP TO 6500 SQ. FEET



PAGING



TAVERNS



RENTALS

Restaurants Clubs • Lodges Hotels • Stores



Knight 14 WATT ALL-PURPOSE SYSTEMS

Here is a choice of fine moderate-powered Sound Systems for permanent types of installations.

The 93-035 System includes inclined wall baffle which is easy to mount and which gives better tone quality and proper coverage. This system is easy to install, attractive in appearance to fit any surroundings—and will give dependable results under the toughest conditions.

The 93-036 System is offered in basic form, less the baffle, for installations where baffle equipment is already available or where another type of baffle is desired. (See note at right). For optional accessory equipment, such as phono top, additional speakers, microphone floor stand, etc., see the listing at bottom left of this page.

With Wall Baffle. Includes: Knight 14 Watt amplifier with tubes (less phono top); Shure Crystal PA Mike with 25-foot cable, on desk stand; 12° Dynamic Speaker in Standard Wall Baffle, 30-foot cable and plus. For 110 volts 60 cycles AC. Shpg. wt., 55 lbs. 93-035. NET PRICE....

93-036. Same as above but without the wall baffle. (See note below.) Shpg. wt., 50 lbs. \$36.25

NOTE: To determine the proper baffle for your particular installation, see the detailed explanation on baffle selection that appears on page 67.

AMPLIFIER SPECIFICATIONS

Amplifies Specifications
Output: Full 14 watts usable power (18 watts peak); hum is inaudible (55 db. below rated output); Output Impedance: 4, 6, 8, 500 ohms on selector; designed for PM or for self-excited Dynamic Speakers; Input Channels: Two, one for mike, one for phono, on individual controls; Tone Control: for bass and treble; Gain: on microphone, 125 db., on phono, 75 db.; Frequency Response: 60-8000 CPS; Tubes: 1-6817, 1-68C7, 2-6V6G (Beam Power), 1-5Y3G; Line Drain: 75 watts; Fused: fully fused for operation from 110-120 voits, 60 cycles AC; Amplifier Size: 161/4" x 101/4" x 93/6.
E.R.P.I. Licensed.

OPTIONAL EQUIPMENT FOR ALL 14 WATT SYSTEMS

93-045. Phono Top for 14 Watt Systems. For 110 volts, 60 cycles AC. Shpg. wt., 11 lbs. NET ... \$7.75
93-040. Extra 12' Speaker with 30-foot cord and plug. Shpg. wt., 12 lbs. NET ... \$7.75
93-041. Extra 12' Speaker in standard wall baffle, 30-foot cord and plug. Shpg. wt., 15 lbs. NET ... \$9.65 93-042, Extra 12' Speaker in Economy All-Steel Projector with mounting bracket, 30-foot cord and plug. Shpg. wt., 20 lbs. NET. \$14.95 NOTE: For Floor Stand (94-000, page 93) in place of Desk Stand, add \$2.60.

CHOICE OF MICROPHONES

The Shure Crystal Microphone shown with the systems on these pages will meet most needs. You can, however, have your choice of \$9-332 V-1 Velocity, or \$9-334 Knight 631 Dynamic at \$4.90 additional. To determine choice of mike which will best fit your own needs, see detailed mike selection explanation on page 67. For complete description of above microphones, see pages 91-93.



Knight 14 WATT DELUXE AMPLIFIER

Control for the kind of tone emphasis you want; High-Gain-125 db. on mike, 75 db. on phono; Frequency Response—60 to 8000 CPS, with negligible locations; Handsome Appearance—smart-looking streamlined two-tone grey steel case, with structure even in dark locations; Handsome Appearance—smart-looking streamlined two-tone plate are easily removable for quick access to tubes and components. All controls and input-output receptacles are located for quick, easy accessibility. Handsome half some plate are easily removable for quick access to tubes and components. All controls and input-output receptacles are located for quick, easy accessibility. Has diagram on base plate. Dimensions: 16½ long, 10½ high, 9¾ deep.

For 110 volts, 60 cycles AC. Less tubes. Shpg. wt., 25 lbs.

93-030. Amplifier as described above, but with RCA tubes. Shpg. wt., 27 lbs. NET PRICE.

\$22.85

Knight 30 WATT De Luxe SYSTEMS-



ALL THESE 1942 PA FEATURES:

- Illuminated Panel
- Safused Speakers 3 Input Channels
- Inverse Feedback
- Universal Mike Input
- **Optional Phono Top**
- Bass-Treble Control Silencer Mike Jacks
- Speaker Selector Beam Power Tubes

- Fuse-Protected
- Take-Down Stand

Knight 30 WATT PORTABLE SYSTEM

"What type of Sound System do you need to fill 90% of your PA Requirements?" That's the question we asked thousands of PA users. And here's the answer—we've developed for you the most popular of all Sound Systems—the Knight 30 Watt Portable! You get far-reaching power punch. You get the right kind of tone quality. And you've been looking for just the features this system has. We want you to check and compare. We know you'll agree that here's the answer to 90% of your PA needs!

3 Input Channels. Only the most costly amplifiers have this feature. You can use any two high-impedance microphones and any high-impedance phono pick-up. And you have perfect control of each channel because there's a three-position mixer circuit with three individual controls that give you any degree of blending or mixing you may require.

Stabilized Inverse Feedback. An important feature you'll be quick to appreciate. Gives you greater power with less hum and noise—and that means remarkably improved tone quality. Found only in the better type of amplifier equipment, Inverse Feedback multiplies power and efficiency.

Bass-Treble Control. Gives the right kind of tonal emphasis—turn to right for high notes, to left for low. Minimizes feedback, too; compensates for varying acoustical conditions, Not just an ordinary tone control, but a real asset to you in your PA applications. You'll notice the difference in performance!

Simple to Operate. You don't have to be an expert to set up and operate this portable system. It's so easy to use, so fool-proof in operation, that anyone can get satisfactory results. The 30 Watt System is completely housed in a split-carrying case of compact and handsome design. Measures only 22½'x 19¾'x 15'. Carrying weight is only 55 lbs. complete. Whether indoors or outdoors, you'll find the 30 Watt Portable easy to set up in a jiffy!

Amplifier, less tubes, meter & phono

15 DAY FREE TRIAL EASY PAYMENT TERMS See Page 66 For Details

Safused Speakers. Exclusive with Knight. Speakers are specially fused for protection against overload. Absolutely prevents any electrical damage to the speakers. It's a safety-first speaker feature found in no other system on the market—more proof of Knight extra value.

Optional Phono Top. A real advantage. You can buy the 30 Watt System with built-in phono top—no extra cases, no trailing wires to fuss with. Includes: rim-drive 78 RPM motor, 9' turntable, new Shure Low Pressure Crystal pickup, switch, arm-rest, needle-cup and plug-in connections. The optional phono top is another Knight "First."

Extra-Value Features. You get the advantages of a special Universal Output Selector, which permits instant matching to additional speakers or line. There's no guessing or figuring; just set where tone and volume sound best. Silencer jacks check hum when mike is removed. Six-contact speaker sockets make connection easy; have safety jumpers which automatically turn off amplifier when speaker plugs are removed. Amplifier is protected by fuse; AC input is tapped to assure full output even when line voltage varies. Wiring diagram appears inside amplifier base.

Lighted, Slant-Protected Panel. Another Knight "First"—never before incorporated in equipment selling at this price. You asked for it and here it is—a fully illuminated instrument panel, slant-tilted but set-in for protection—to give you wonderfully easy operating control anywhere. No more guessing; no more fumbling in the dark.

15 Day Trial. Prove the quality of the Knight 30 Watt Deluxe System to yourself. Take advantage of our 15 Day Trial Offer (see Page 66) and judge for yourself. We know you'll agree that there isn't a finer PA value on the market today.

COMPLETE 30 WATT PORTABLE SYSTEM

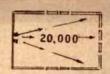
Complete System includes: 1—Knight 30 Watt Deluxe amplifier with tubes; 1—Shure Crystal PA Microphone with Take-down Mike Stand (can be used as short or tall Floor Stand or as Banquet Stand) and 25-foot cable and plug; 2—12' Safused Dynamic Speakers with 30-foot cables and plugs; and operating instructions. Less phono top and V.I. meter. Entirely self-contained in portable carrying case as illustrated. For 110 volts, 60 cycles, AC. Shpg. wt., 70 lbs.

93-134. YOUR CASH PRICE COMPLETE.....

Time Payment Terms: \$12.99 down, \$7.15 monthly for 8 months.

(See other 30 Watt Systems on next, page. Also complete listings of accessories, including phono top, V.I. meter, etc.)

AMERICA'S PUBLIC ADDRESS FAVORITES



COVERS UP TO 20,000 SQ. FEET





SCHOOLS



THEATRES

STORES FACTORIES



Knight 30 WATT ALL PURPOSE SYSTEMS

To meet varying requirements, we offer a choice of 30 Watt Systems below, in combinations to meet practically any need. Each system includes all of the fine features described on the opposite page.

System with Wall Baffles. Includes: Knight 30 Watt Amplifier with tubes, less phono top and V.I. meter; 1—Shure Crystal Microphone on 94-000 floor stand with 25-foot cable and plug; 2—12-inch Safused Dynamic Speakers in wall baffles with 30-foot cables and plugs; complete instructions. A splendid choice in an all-purpose PA System. For 110 volts, 60 cycles, AC. \$625 Shpg. wt., 68 lbs.

93-135, NET CASH PRICE.

Terms: \$12.45 down, \$6.85 monthly for 8 months.

System Less Baffles. Same as 93-135, but does not include the wall baffles. Shpg. wt., 58 lbs. 557.50

System with All-Steel Projectors. Same as 92-136, but with 2—All-Steel Projectors and brackets added. Shpg. wt., 70 lbs. \$71.50
(See Baffle Selection Explanation on Page 67.)

OPTIONAL ACCESSORIES

85-000. V.I. Meter. Shpg. wt., 2 lbs. NET. \$4.75 93-210. Monitor Speaker. Wt., 1 lb. NET. \$4.25



30 WATT AMPLIFIER ONLY

If you're looking for a quality high-power replacement Amplifier for use with your present equipment, you can make no better choice than this popular Knight full 30 Watt Amplifier. You get real, usable features, plenty of versatility, dependable power and the kind of tone quality you need. Has all the features described on page 72. Housed in an all-steel case, in two-tone grey crackle. Has lighted, slant-protected control panel. Top cover is easily removable. For 110 volts, 60 cycles AC. (Optional equipment such as phono top, V.I. meter, etc. may be selected from complete listings above.) Less phono top and tubes. Shpg. wt., 29 bs.

93-131, MET PRICE.

93-130. Amplifier, as above, but with RCA tubes. Shpg. wt., 31 lbs. NET......\$33.75 For 110 Volt, 25 cycle operation, add, \$10.00.

AMPLIFIER SPECIFICATIONS

Output: Full 30 watts usable power (35 watts peak); hum is inaudible (55 db. below rated output); Output Impedance: 4, 6, 8, and 500 ohms on selector; designed for use with PM or self-excited Dynamic Speakers; Imput Channels: Three, two for high-gain mikes, one for phono, on individual controls; Tone Centrol: for bass and treble; Gain: on microphone, 128 db., on phono, 80 db.; Frequency Response: 50-10,000 CPS. Tubes: 2-68/7, 2-68/7, 2-61/66, 1-5U46; Line Drain: 185 watts; Fused: fully fused for operation from 110-120 volts, 60 cycles AC: Amplifier Size 16/4' x 10/4' x 9½'. E.R.P.I. Licensed.

CHOICE OF MIKES: The microphones shown with the systems on these pages will meet most needs. You can, however, have your choice of \$9-332 V-1 Velocity, or \$9-334 Knight 631 Dynamic at \$4.00 additional. To determine choice of mike which will best fit your own needs, see detailed mike explanation on page 67. For complete descriptions of above microphones, see pages 91-93.

THE 30 WATT "JIFFY" RENTAL SYSTEM

Here's a system that solves the toughest of all PA installation problems! No more speaker installation worries! Just walk in with this Portable System, and set it up in a jiffy. Don't worry about putting up speakers. The ingenious fold-down speaker triped stands (see illustration tripod stands (see illustration at right) take care of it for you. Just mount the speaker cases on them and place wher-ever you want them. Stands can be extended from 46 to 78 inches; have adjustable swivels.

COMPLETE. "JIFFY" SYSTEM

COMPLETE. "JIFFY" SYSTEM
Includes: Knight 30 Watt Amplifier with Phono top and tubes (less V.I. meter); 2—12' Safused Dynamic Speakers; Shure "Uniplex" low-feedback microphone; take-down stand; compact portable case (22½' x 19¾' x 15' closed); and 2—tripod speaker stands as described. With all necessary cables and instructions. For 110 volts, 60 cycles AC. Shpg. wt., 90 lbs. 93-138.

NET CASH
PRICE.

59,755 down, 518.75 monthly

\$19.55 down, \$10.76 monthly for 8 months.



Knight 60 WATT De Luxe SYSTEMS-ALL





12,000 PERSONS



STADIUMS



SKATING RINKS

SCHOOLS THEATRES MORTUARIES

SEE OUR EASY TERMS 15 DAY TRIAL OFFER Full Details on Page 66

Amplifier, less tubes, meter & phono top

FEATURES

- New! Blased Power!
- * Inverse Feedback
- · Power Driver
- Speaker Selector 6 Input Channels
- 2 Tone Equalizers
- **Optional Phono** 2 Phono Inputs
- Silencer Inputs
- Safety Fused
- Lighted Panel
- **Master Control** " Universal Output

AMPLIFIER SPECIFICATIONS

Output: 60 watts usable power output (peak 90 watts); hum is inaudible (60 db. below rated output); Output Impedance: 2, 4, 6, 8, 250 and 500 ohms on selector; designed for PM or self-excited Dynamic Speakers; Imput Channels: Six, four for high-impedance mikes, two on taders; for phono Yane Controls atternator-type, one for treble, one for bass; Gain: on mike, 130 db., on phono, 80 db.; Frequency Response: 40-10,000 CPS; Tubes: 4-6517, 2-6SN7GT. 1-6J5, 1-6F6, 2-6L6G, 1-83, 2-5U4G; Line Drain: 295 watts; Fused: dully fused for operation from 110-120 volts, 60 cycles AC; Amplifier Size: 19% x 14% x 11%. E.R.P.I. Licensed.

Knight 60 WATT DELUXE AMPLIFIER

Here's the "Niagara" of amplifiers-a full 60 Watt powerhouse with a tremendous output of sound that you can call on any time to deliver without ever a sign of "cracking up." Here's giant power for the biggest space-conquering job—yet you get velvety-clean, crisp reproduction!

New! Bias Power Circuit! Here's a new milestone in PA engineering—pioneered by Knight—proved in the field! For the first time in PA, the tremendous power potentiality of the 6L6G tube is fully realized. This is achieved by a new circuit development that provides a means for stabilizing the voltage applied to the 6L6G tubes. Thus, with two 6L6G tubes, you actually get the equivalent usable high-power formerly obtained with four tubes. Get the tremendous proof of Bias Power performance. Our 15 Day Trial will convince you!

Inverse Feedback. Gives you greater output—better tone quality. You can work the system at higher volume levels because distortion and hum are cut way down.

Power Driver. Assures you of gigantic reserve power to permit operation at peak levels with minimum distortion. You can actually hear the difference!

6 Input Channels. You can use any four high-impedance mikes along with any two phono pickups. Two of the microphone channels have individual controls; the remaining two are each combined on a single fader control with one each of the phono channels. Allows mixing and fading action as desired.

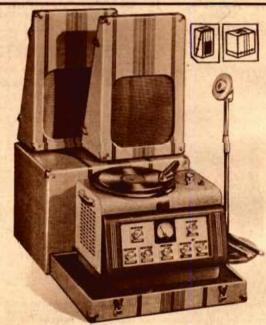
Dual Tone Controls. Give the tonal emphasis you want; help cut down feedback. Separate controls for bass and treble. Bass control, turned to farthest left, makes speech crisper and clearer for fine outdoor results. Gives you truly flexible control.

Speaker Selector. Speaker selector switch is provided for quick matching of any number and variety of speakers. Just set where volume and tone are best.

Extra Features. Has professional-type slanted, fully-illuminated Control Panel Includes: Headphone Monitor Jacks; Silencer Jacks; Booster Outlet; Fused; diagram on base plate. Haudsome all-steel case, finished in two-tone grey. 60 Watt Amplifier Only. Amplifier only as described, but less Phono Top. V.I. Meter, and tubes. For 110 volts, 60 cycles AC. Shpg. wt., 65 lbs. \$7950 \$7250

93-180, Amplifier complete with RCA tubes. Shpg. wt., 68 lbs. NET.\$80.50

(For 110 volts, 25 cycles, add \$17.50.) See Opposite Page For Optional and Accessory Equipment.



60 WATT PORTABLE SYSTEM

Here's the best answer to your need for high-powered PA, in convenient portable form. You can fill the biggest requirements with this 60 Watt Portable System in a jiffy, because it's easy to get it out on the job, quick to set up, and simple to operate for satisfactory results anywhere in the field. You can own this outfit and make it pay for you now, because only a few dollars down buys this giant-power Portable System.

60 Watt Portable System Complete: Includes Knight 60 Watt Deluxe Amplifier with tubes (less phono top and V.I. meter); portable case for amplifier with compartment for cables—22% x 17½ x 17½; 1—Knight-Electro-Voice 631 Dynamic microphone with 25-foot cable and plug on take-down floor stand; 2—Knight Safused heavyduty 12 Dynamic Speakers with 30-foot cables and plugs in split carrying case—21 x 13½ x 10½. With instructions. For 110 volts, 60 cycles AC. Shpg.

12475

12475

\$24.95 down, \$13.73 monthly, for 8 months.

93-215. Extra Split-Speaker Case, complete with 2—12' Safused Dynamic Speakers, each with 30 foot cables and plugs. Recommended for larger coverage. Shpg. wt., 25 lbs. NET PRICE. \$22.95

THE POWER YOU'LL EVER NEED - At Low Cost!



COVERS UP TO 65,000 SQ. FEET





FACTORY PAGING

ORCHESTRAS SHIPYARDS AIRPORTS





60 WATT "STADIUM" SYSTEM

Here's the system you'll choose if you're looking Here's the system you'll choose if you're looking for an outfit to give you tremendous, penetrating coverage. The special All-Steel Trumpets supplied are designed to give you a powerful directional effect projecting sound over great distances. The 60 Watt "Stadium" System is recommended for the following applications which call for tremendous coverage: large stadiums, airports, high-power industrial paging; large skating rinks, circuses, bandshells, beaches, docks, freight yards, railway terminals, etc. Our 15 Day Trial Offer will convince you of the superiority and value of this super-powered 60 Watt "Stadium" System.

super-powered 60 Watt "Stadium" System.

60 Watt "Stadium" System Complete. Includes Knight 60 Watt Deluxe Amplifier with tubes (less phono top and V.I. meter—see accessory listing at right), 1—Knight-Electro-Voice Type 631 Dynamic Microphone with 25-foot cable and plug, on Floor Stand; 4—Kainer heavy-duty All-Steel Trumpets, each complete with 15 Watt Driver Units and mounting brackets, with 30-foot cables and plugs; instructions, For 110 volts, 60 cycles AC.

Shpg. wt., 215 lbs.

93-186. NET CASH PRICE.

\$18750

S37.50 down, \$20.63 monthly, for 8 months.

NOTE: For special-purpose, Industrial or Institu-tional hi-power installations, consult our Sound En-gineering Division. Recommendations will be sup-plied promptly; no charge or obligation for service.

Knight 60 WATT ALL-PURPOSE SYSTEMS

For larger, permanent installations, both indoors or outdoors, we offer a choice of 60 Watt Deluxe Systems as listed below. The 93-184 All-Purpose System, equipped with 4—12 inch Speakers in Kainer All-Steel Projectors, is ideal for covering large areas where sound must be projected over considerable distances or to overcome high noise levels. Recommended for skating rinks, armories, arenas, factories, warehouses, athletic fields, etc. The **93-185** Basic System, including 4—12 inch speakers without baffles, enables you to make use of your existing baffle equipment, to mount speakers in concealed custom installations, or to make any baffle choice you prefer (see page 97 for baffle selection).

Blased Power Circuit. This new Knight development assures you of huge power that is absolutely usable right up to its tremendous rated output without the least trace of "cracking up" as you turn up the volume.

Six Input Channels. Everything you could ask for: you can use any four high-impedance mikes and two phono pickups. Imagine it—here you have broadcast studio control of all six channels—only the most costly amplifiers have this feature.

Inverse Feedback. Another great feature that makes this system a "standout." Gives you greater output and better tone quality, because it cuts down hum and distortion.

Dual Tone Equalizers. Two separate controls permit desired variation of bass or treble tones—helps cut down feed-back—makes reproduction clearer and crisper.

Power Driver. Assures you of huge, usable reserve power for better reproduction on peaks. Another feature found only in the most expensive professional type amplifiers. Speaker Selector Switch. You can match additional speakers to the system instantly and easily. Just set where tone quality and volume are best—no bother, no guessing.

Safused Speakers. Speakers can't be damaged by accidental overload; they're fuse-protected. Have smooth response which reduces reflection and reverberation.

Extra Features: Headphone Monitor Jacks; Silencer Jacks; Booster Stage Outlet; diagram on base plate; Fused. Beautiful all-steel case, with illuminated panel.

Optional Equipment. Phono Top—matched to the amplifier—available at small extra cost. V.I. Meter or Monitor Speaker—use as optional units, one for visual checking of output, the other for listening test.

Complete 60 Watt System With Projectors. Includes: 1—Knight 60 Watt Deluxe Amplifier with tubes (less phono top and V.I. meter); 1—Knight-Electro-Voice 631 Dynamic Microphone with 25-foot cable and plug, on floor stand; 4—Knight Safused heavy-duty 12' Dynamic Speakers in Kainer Steel Projectors with mounts, with 30-foot cables and plugs attached; complete instructions.

For 110 volts, 60 cycles AC. Shipping weight, 205 lbs.

315750

93-184, NET CASH PRICE.

Terms: \$31.50 down, \$17.33 monthly for 8 months.

Complete 60 Watt System, Less Projectors. Same as 93-184, but does not include the All-Steel Projectors or mounts. Shpg. wt., 140 lbs. \$128.75 \$128.75

Terms: \$25.75 down, \$14.17 monthly for 8 months.

OPTIONAL ACCESSORY EQUIPMENT

93-187. Phono Top for above. With new low-pressure Shure Crystal pickup. For 110 volts, 60 cycles AC. Shpg. wt., 15 lbs. NET \$12.45 85-000. V.I. Meter for use with above. Shpg. wt., 2 lbs. NET \$4.75 93-210. Monitor Speaker for above. Shpg. wt., 2 lbs. NET \$4.25

CHOICE OF MICROPHONES

The microphones shown with the systems on these pages will answer most requirements. However, you may have your choice of 99-332 V-1 Velocity or 99-304 Astatic DN Dynamic at \$1.50 additional; or 99-400 Amperite Velocity or 99-355 Shure Uniplex Crystal at \$9.50 additional. (See page 67 for explanation on how to choose mike; see pages 91-93 for complete microphone descriptions.)

Knight 15-18 WATT De Luxe 6V.-110V. SYSTEMS







COVERS UP TO 4800 SQUARE FEET OUTDOORS 8000 SQ. FEET INDOORS





SOUND TRUCKS







CHURCHES

Also: Street Advertising Political Rallies • Schools Evangelists • Resorts

15 DAY TRIAL OFFER -EASY TERMS Just A Few Dollars Down Buys These Systems

• Inverse Feedback
• Illuminated Panel • Bass-Treble Control
• Safused Speakers
• Built-in Phono
• Stand-by Switch
• Locking Mike Socket

Knight 15-18 WATT **ALL-PURPOSE SYSTEMS**

We've gone "all-out" for Value in this popular low-priced Mobile Sound System! And you can prove it for yourself. Try out this System on our 15 Day Trial Offer (see page 66) and get real PA satisfaction—big usable output, handy operation, battle-ship ruggedness, and the kind of tone quality that spells "tops" in PA performance!

Compact, Complete. You get everything built-in-with phono included-ready to work from any 6 volt storage battery or from 110 volt AC line. Nothing like it for completeness!

Easy to Operate. It's easy to set up and use this Mobile Sound System. You don't need technical knowledge or previous PA experience. You can't make a wrong connection. All ac-cessories plug in simply. Just set it up and get perfect results right from the start!

Inverse Feedback. This important feature gives you greater output, better tone quality; reduces hum and distortion so you can operate at higher volume. It's a quality PA feature.

Safused Speakers. Fused so they can't be damaged by over-load. An exclusive Knight development that gives you absolute speaker protection at all times.

Two Input Channels. Amplifier takes any high-impedance mike in addition to the built-in phono pickup. Each channel has individual volume control permitting mixing or blending.

Bass-Treble Control. Gives you just the tonal emphasis you want; cuts down feedback; assures clearer speech with greater penetration for outdoor work. Not just a gadget—but a truly useful feature you'll appreciate.

Amplifier with phono top, less tubes.

Speaker Selector. Permits quick, accurate matching of additional speakers. Simply set selector where volume and tone quality are at their best. No guessing—no bother.

Stand-By Switch. Saves the battery, but keeps filaments ready for quick use. Adds extra hours of use from battery; a valuable economy feature you'll find useful in the field.

And These "Extras." Grip-tite Mike Socket; separately fused on 6 and 110 volts; change over from 6 Volts to 110 Volts just by changing power cables; lighted control panel same as in professional type equipment. Nothing has been overlooked; you get the most for your money.

Complete 15-18 Watt Mobile System. Includes 1—Knight 15-18 Watt 6 Volt-110 Volt Amplifier with tubes and built-in phono equipment; Shure Crystal PA Microphone with Desk Stand and 25 foot cable and plug; 2—12' Safused PM Dynamic Speakers with 30-foot cables and plugs; 2—All-Steel projectors; complete instructions. For 110 volts, 60 cycles AC, or 6 volts DC. Shpg. wt., 80 lbs. \$7095 93-052. NET CASH PRICE.....

Terms: \$15.99 down, \$8.80 monthly for 8 months.

93-053. Same as above, but \$69.95

CHOICE OF MICROPHONES

The Shure Crystal Microphone shown with above systems will fill most requirements adequately. However, in place of Shure Crystal mike shown with 15-18 Watt Systems above you may have your choice of 99-332 Velocity or 99-334 Knight 631 Dynamic at \$4.00 additional; or 99-400 Amperite Velocity or 99-355 Shure Uniplex Crystal at \$12.00 additional. For complete descriptions of above microphones, see pages 91 to 93. See page 67 for explanation on how to select proper microphone.

For 94-000 Floor Stand in place of Desk Stand shown above, add \$2.60.



15-18 WATT UNIVERSAL SYSTEM

Here's a system with which to cut yourself a real slice of profits. Rent it—sell it—operate it. 15-18 Watt Amplifier is same as described at left; with tubes and phono equipment. Accessories supplied include: Shure Crystal PA Mike with shoulder mount and 3-way stand, with 25 foot cable and plug; 4-12' Safused PM Dynamic Speakers; 2—Kainer steel projectors with mounting brackets; 1—car-top mounting platform for projectors; 1—Dual-speaker case (21' x 13'/4' x 10'/2' closed); 2—30 foot cords and plugs for speakers which mount in projectors; 2—100 foot cords and plugs for speakers which mount in dual case; complete instructions. For 6 volts DC or 110 volts AC, Shpg. wt., 135 lbs.

93-054. NET CASH PRICE..... \$112.95

\$22.59 down, \$12.43 monthly for 8 mos.

AMPLIFIER SPECIFICATIONS

AMPLIFIER SPECIFICATIONS
Output: Full 15 watts (6 volts), 18 watts (on AC)
usable power output (23 watts peak); hum is inaudible (60 db. below rated output); Output Impedance: 4, 6, 8, and 500 ohms on selector; designed for
PM Speakers; Inputs: Two, one for high impedance
mike, one for built-in phono with individual controls;
Tone Control: One bass-treble control; Galn: on
microphone, 125 db., on phono, 75 db.; Frequency
Response: 60-8000 CPS; Tubes: 1-6SJ7,
1-6SC7, 2-6L6G, 2-6X5G; Line Drain: AC120 watts, DC-19 Amps, total; Fused: fully fused
for operation on 6 volts DC, or 110 volts, 60 cycles
AC; Size: 16¾ x 11½ x 10¼ E.R.P.I. Licensed.



15-18 WATT AMPLIFIER ONLY

Use this Universal Amplifier to build yourself a truly all-purpose System that you can use anywhere. You don't have to lose those outdoor or rural jobs, because here you have an amplifier which operates with equal efficiency from 6 volts or from 110 volts. Amplifier has all features described above. Supplied in sturdy, streamlined steel case, in two-tone grey finish; chrome carrying handles. With phono top. For 6 volts DC or 110 volts, 60 cycles AC. Less tubes. Shog, wt., 30 lbs. \$49.95

93-050. Amplifier as above, but with RCA tubes. Shpg. wt., 32 lbs. NET......\$54.25

Knight 30 WATT De Luxe 6V.-110V. SYSTEMS





RINKS

COVERS UP TO 10,000 SQUARE FEET OUTDOOR 20,000 SQ. FEET INDOORS

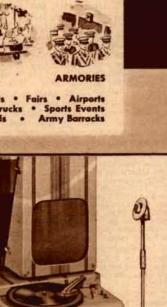


BAND SHELLS



PICNICS

Carnivals • Fairs • Airports Sound Trucks • Sports Events Shipyards • Army Barracks



30 WATT PORTABLE SYSTEMS

Here's the 30 Watt Mobile System in handy Portable form; comes in two compact cases—one for amplifier (with compartment for cables, etc.), 22½, x 17½, x 17½, the other a split-case for the speakers, 21, x 13½, x 10½, Includes: 1—Knight 30 Watt Amplifier complete with tubes and phono top; 2—12, Safused PM Speakers with 30 foot cables and plugs; two carrying cases; 1—Knight-Electro-Voice 631 Dynamic Microphone with 25 foot cable and plug; 1—take-down floor stand; instructions. Shpg. wt., 120 lbs. Less V. I. Meter. 93-160.

93-161. Special All-Duty System.
"Tops" for instant mobile installations or for quick indoor or outdoor set-ups. Includes all equipment described above, plus 2—95-231 Kainer Marine Horns with 15 watt driver units and mounts and 30 foot cords and plugs; car-top speaker platform; 100 foot cables on speakers in cases; and shoulder mike mount. Shpg. wt., 170 lbs.

NET CASH PRICE
\$162.50
\$32,50 down; \$17.88 monthly for 8 mos.



- Speaker Selector Safused Speakers Beam Power Tubes
- Amplifier, with Phono Top, less tubes and meter.
- Inverse Feedback
 Built-in Phone
 Stand-by Switch
 Remote Control
 Universal Output
 Silencer Jacks
 Lighted Panel

Knight 30 WATT ALL- PURPOSE SYSTEMS

This is the finest Mobile Sound System ever This is the finest Mobile Sound System ever offered at this price! It's engineered right and built-right for Mobile service. Don't confuse it with ordinary equipment that can't "take it." Check the features, the easy operation, the ruggedness, the quality of this system for yourself. Our 15 Day Trial Offer will convince you!

Works Anywhere. Work it from any 6 volt storage battery; run it from 110 volts, 60 cycles AC. Whichever way you use it, we guarantee full 30 watts output. And it's just child's-play to set up and operate.

Four Input Channels. You can use any two high-impedance mikes along with phono pick-up on amplifier and one additional phono pickup. You can control each mike separately. Phonos are operated by fader control, allowing you to blend as desired.

Inverse Feedback. Gives you greater output
—better tone quality. You can work the system
at higher output levels because distortion-and
hum are cut down to a minimum.

Dual Tone Controls. They give you the tonal emphasis you want; help cut down feedback. One control varies bass; the other varies treble. Bass control turned to farthest left makes speech reproduction crisper and clearer.

Speaker Selector Switch. Matches any additional speakers instantly—no guessing. Just set for best volume and tone quality.

6 Voits or 110 Voits in a Jiffy. You can change the System from 6 voits to 110 volts in an instant. Just change plugs at rear.

15 DAY TRIAL OFFER -EASY TERMS Just A Few Dollars Down Buys These Systems—See Page 66

Extra Features. Has illuminated Control Panel; Safused Speakers; stand-by Economizer Switch; Silencer Jacks check hum when mike plug is removed; six-contact Dual Speaker Outlets; Fused on 6 and 110 volts; diagram inside base plate; Headphone Monitor Jacks.

Compact Single Unit Design. Amplifier, high-grade single-speed motor, Low-Pressure Crystal pickup, 6 volt and 110 volt power supplies, and all controls and connecting receptacles are assembled in one compact modern steel case; size, 195% x 141/4 x 131/2.

Complete Deluxe Mobile System. Includes: 1—Knight 30 Watt Deluxe Amplifier with AC and battery cables; built-in phonograph motor and pickup; 6 volt and 110 volt power supplies, and tubes; 1—Knight Electro-Voice 631 Dynamic Microphone with 25-foot cord and plug with either desk stand or shoulder mount (specify choice); 2—Knight 12-inch Safused PM speakers with 30 foot cords and plugs; instructions. For 6 volts DC or 110 volts AC, 60 cycles. Shpg. wt., 90 lbs.

\$10275

\$20.55 down, \$11.31 monthly for 8 mos.

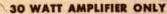
93-153. Same as 93-152, but with 2—Kainer steel projectors and mounting brackets (as in large illustration above) added. Shog. wt., 130 lbs. NET PRICE 523.35 down, \$12.85 monthly for 8

OPTIONAL ACCESSORIES

85-000, V. I. Meter. NET...... \$4.75 93-210. Monitor Speaker. NET... \$4.25 85-001. Remote Control. NET... \$5.95 93-220. Car-Top Platform. NET. \$4.41 For Floor instead of Desk Stand add. \$2.40

CHOICE OF MICROPHONES

You may have your alternate choice of 99-332 V-1 Velocity or 99-304 DN Dynamic at \$1.50 additional; or 99-400 Amperite or 99-355 Uniplex Crystal, at \$9.50 additional.





93-150. Amplifier as above, but with RCA tubes. Shpg. wt., 62 lbs. NET PRICE. \$79.65

AMPLIFIER SPECIFICATIONS

AMPLIFIER SPECIFICATIONS
Output: 30 watts usable (37 peak); hum is inaudible (60 db. below rated output); Output imp.: 2. 4. 6, 8, 250, and 500 ohms on selector switch; for PM Speakers; Input Channels: Four, two for high-impedance mikes, each with individual controls, two for phono on fader control; Tone Controls: Two, attenuator type, one for treble, one for bass; Gain: on microphone, 135 db., on phono, 80 db.; Response: 40—10,000 CPS; Tubes: 2—6SJ7, 1—6SA7, 1—6SC7, 2—6L6G, 2—6X5G, Drain: 140 watts AC, 24 Amps. DC; Stand-by Switch: saves battery. Size: 19½ x 14¼ 'x 13½'. E.R.P.I. Licensed.



POPULAR ORCHESTRA SYSTEM

We went out and talked to orchestra leaders, asked them what they were looking for in a Sound System. And here's the result of our research—a low-cost, dependable, and complete Portable Sound System that's "right in the groove." The same high-quality workmanship which went into the Knight PA System used by Glenn Miller's Orchestra, is yours at a popular price you' can afford. We've thought of everything any orchestra would want—and you'll find in this System the power, the versatility, the convenience you need. There's nothing to wrestle with—it sets up in a hurry—works right and does right by your outfit, both on voice and instruments. It's easy to carry, too—a feature you'll really appreciate. You get full 30 watts output—and that will take care of practically any size job—whether barn-dance, swanky ballroom, theatre, resort, bandshell, etc. And it will do real justice to your vocals, your ensembles, and your arrangements, because it's quality-designed for wide-range tonal reproduction.

Specifications: 30 Watt Deluxe Amplifier (see page 73) features: We went out and talked to orchestra leaders, asked them what

quality-designed for wide-range tonal reproduction.

Specifications: 30 Watt Deluxe Amplifier (see page 73) features: Inverse Feedback; has individual controls for each of the two microphones supplied—permits blending of vocalist and background. Includes: tone control; mike silencer jacks; line fuse; uses 2—6517, 2—6567, 2—61.66, 1—5U46. Two microphones supplied are: Electro-Voice V-1 Velocity type for best instrumental pickup; Electro-Voice 630 Dynamic—ideal for vocal work. Each mike has 25-foot cord and plug, and both mount on adjustable floor stands included. There are two 12-inch Dynamic speakers, with 30-foot cords and plugs. Speakers and amplifier mount in single, split-type portable case; 22½'x 19¾'x 15'.

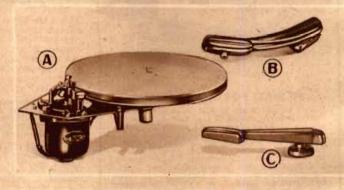
93-162. Complete 30 Watt Orchestra System with Amplifier and tubes, 2—12' Speakers, 2 Microphones, 2 Floor Stands and Portable Case as described above. With necessary cables and instructions. For 110 volts, 60 cycles AC.

Shipping weight, 78 lbs.

Terms: \$17.50 down, \$9.63 menthly, for 8 months.



HIGH-FIDELITY PHONOGRAPH



Knight 20 WATT HIGH-FIDELITY AMPLIFIER

It's here at last — America's finest deluxe truly high-fidelity Phonograph Amplifier—especially designed for those who are not satisfied with ordinary phonograph record reproduction. Designed solely for phonograph record reproduction, and intended for use only with high-quality accessory components, it is outstanding for its ability to impart to all recordings depth and faithfulness that are truly astounding. Developed for home use or for Schools, Recording Studios, Broadcast Stations, Theatres, Clubs, Dining Salons, etc.

Stations, Theatres, Clubs, Dining Salons, etc.

AMPLIFIER SPECIFICATIONS. The Knight 20 Watt Deluxe Phono Amplifier has every advanced feature for high-fidelity reproduction. Includes Inverse Feedback which imparts triode qualities to the 6L6G Beam Power output stage and yet preserves the well-known efficiency of the 6L6G tubes; improves tone quality and reduces hum and noise. Has continuously-variable Automatic Volume Expansion—this fine feature automatically builds up the louder passages to their true volume value, maintaining the correct balance between the loud and soft passages of the original recording. Bass and Troble Equalizers are incorporated; they actually add emphasis or attenuate highs and lows individually. Dual Phono Input on fader control permits the use of two turntables. Master Control reduces internal amplifier noise and hum. Output Impedance is 2, 4, 6, 8, 250 and 500 ohms to match any speaker. Hum Level is negligible: 60 db. below rated output. Gain is 80 db., sufficient for use with any type of high-impedance pickup. Frequency Response is high-fidelity—flat within ± 2 db., 30 to 12,000 CPS. Tubes used are: 1—61.7, 1—6H6, 1—6C8G, 2—6L6G, 1—5Z3, Amplifier size: 17¼' x 11½' x 9½'. Power drain is 165 watts.

93-101. High-Fidelity 20 Watt Phonograph Amplifier only. Less tubes, Shpg. wt., 30 lbs.

NET PRICE.

\$3175

93-100. Amplifier with RCA tubes. Shpg. wt., 32 lbs. NET.......\$36.25

IMPORTANT—To achieve High-Fidelity results, it is essential to match this Amplifier with High-Fidelity accessory components. See listings at right.

HIGH-FIDELITY MOTORS & PICKUPS

PRESTO MODEL 11-A DUAL-SPEED MOTOR. (Fig. A). A professional phonograph motor and turntable designed for constant-speed playback of either 78 or 33½ RPM records up to 16-inch size. Induction-type heavy-duty motor drives heavy, balanced 12-inch turntable through an exclusive rubber tire on turntable rim. Simple lever makes easy change from 78 to 33½ RPM. Mounted on brown metal base. Mounting space required is 14½ x 12½; 5' below panel. For 110 volts, 60 cycles AC. Shpg. wt., 20 lbs.

85-100. NET PRICE.

ASTATIC FP-38 HIGH-FIDELITY CRYSTAL PICKUP. (Fig. B). An excellent Low Pressure Crystal pickup of radically new design. Provides finest high-fidelity reproduction. Needle pressure is only one ounce; preserves record life. Includes permanent sapphire stylus; protective U-shaped guard prevents injury to stylus. High-fidelity response, 30-10,000 CPS. High-impedance type. Plays both 10 and 12-inch records. Statuary bronze finish. Shpg. wt., 2 lbs.

65-100. NET PRICE. \$9.70

BRUSH PL-25 HIGH-FIDELITY CRYSTAL PICKUP. (Fig. C). The finest high-fidelity Crystal pickup available. Has featherweight one-ounce needle pressure which minimizes record wear and needle scratch. Includes permanent sapphire point needle, especially polished and contoured to fit record grooves perfectly, resulting in minimum scratch and greater fidelity. Frequency response is 30 to 10,000 CPS. Has attractive statuary bronze finish. Tangent head type to assure correct needle tracking. Shpg. wt., 7 lbs.

65-000, NET PRICE

\$16.17

78





Knight 4 WATT PHONO AMPLIFIER

Now, for the first time, you can get a high-quality AC-DC amplifier around which to build your own record-reproducing unit at economical cost. Measures only 4' wide, 8' long, and 2' high, exclusive of tubes. Overall height with tubes inserted is only 6½'. Uses 1—6C8G, 2—25L6G, 1—25Z5 tubes, and 1 ballast. Will operate from any 110 volt, AC or DC outlet; produces full 4 watts output. Amplifier has input for high-impedance crystal pickup. Output is 3000-4000 ohms for operation with a PM Speaker having an output transformer. Has tone control, Less tubes, 3 lbs. \$585 93-000. NET PRICE.

93-005. Tube Kit for above amplifiers. NET ... \$2.47 82-022. Jensen 8' PM Speaker for use with above amplifiers. Shpg. wt., 4 lbs. Less transformer. NET...\$3.38

64-801. Output transformer to match above speaker or any speaker to phono amplifiers. NET.......\$1.03

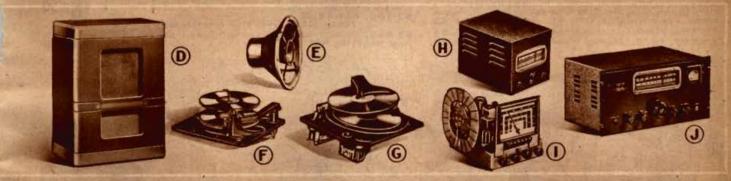
Knight VOLUME EXPANDER

Builds up the louder passages of recordings to their frue volume, maintaining a correct balance between the loud and soft passages of the original. Uses 1-6N7G, 1-6K7G, 1-6K7

83-321. Tube Kit \$2.06



THE BEST ... EQUIPMENT FOR THOSE WHO WANT



SPEAKERS AND RECORD CHANGERS

JENSEN MODEL BR BASS REFLEX ENCLOSURE (Fig. D). Especially designed for housing any high-fidelity 12-inch loudspeaker. Improves tonal performance; adds octaves to low frequency response and greatly improves middle and high frequencies. Cabinet is ruggedly constructed of heavy wood with attractive brown lacquer finish and decorative trim. Size: 30½ x 23½ x 12½ Shipped knocked-down; easy to assemble; with hardware. Shpg. wt. 47 lbs. \$15.58

JENSEN HIGH-FIDELITY MODEL JCP40 DUAL LOUDSPEAKER (Fig. E). A new speaker achievement—actually two speakers in one with built-in frequency dividing network. Especially developed for high-fidelity reproduction. The 12-inch PM "woofer" section handles the low frequencies; the cone type PM "tweeter" handles the highs. Frequency response, 50-10,000 CPS, with substantial contribution even in the 12,000 CPS region. Handles 8-10 watts of audio power. Voice-coil impedance, 6 ohms. Shpg. wt., 16 lbs. \$17.35

GARRARD RC-30 RECORD CHANGER (Fig. G). One of the finest Automatic Record Changers made. Plays up to eight 10' or 12' records inter-mixed, at 78 RPM. Includes high-fidelity type Crystal Pickup with one-ounce needle pressure and permanent sapphire-point needle for minimum record wear. Response of pickup is 30 to 7500 CPS. Size: 15' x 114' x 5½' above and below panel. For operation from 110-130 volts, 60 cycles AC. Shpg. wt., 20 lbs.

\$44.10

GENERAL INDUSTRIES C-125L RECORD CHANGER (Fig. F). A moderately-priced, dependable Automatic Changer suitable for high-fidelity work. Equipped with new low-pressure crystal pickup. Plays twelve 10° or ten 12′ records automatically at 78 RPM; lever changes from one size to the other. Response of pickup is 30 to 7,000 CPS. Size: 14′ x 14′; mechanism requires 5½° above and 3½° below base plate. For 110 volts, 60 cycles AC. Shpg. wt. 35 lbs. \$19.65

HIGH-FIDELITY RADIO TUNERS

MEISSNER AM TUNER (Fig. H). A high quality straight AM Tuner, Uses Tuned RF circuit having a total of four-tuned circuits to provide excellent sensitivity and selectivity, 5½ Slide-Rule dial. Tuning range covers standard broadcast band from 530 KC to 1500 KC. Ferrocart RF colls, Has AVC. Built-in power supply. Output impedance from low-gain coupling stage is 2500 and 10,000 ohms. Black wrinkle-finished steel cabinet. 8½ x 8½ x 12½ Tubes: 3-6K7, 1-6H6, 1-6F8C, 1-524, For 110V., 60 cycles AC, Less tubes. 11 lbs. 83-300. NET PRICE. \$37.25

KNIGHT 3 BAND TUNER CHASSIS (Fig. I). Tunes 3 full bands: 1.7-6 MC; 5.6-19 MC; 540-1650 KC. Includes: built-in loop antenna; push-button tuning; 6¼ x 4 dial; seven tube Superhet circuit (including rectifier); AVC; RF Stage, tuning eye, etc. Chassis type for mounting in your own cabinet; size; 8½ wide, 9 deep, 8½ high. Complete with tubes. \$28.75

97-531. As above, but in chassis form. NET \$69.50

79



Knight HEARING-AID SYSTEM

For use in churches, theatres, schools, lodges, etc., to bring new enjoyment to the hard-of-hearing, at remarkably low cost. Extremely sensitive; picks up all sound, whether voice or music, with absolute freedom from annoying hum, noise or buzz. Can be quickly installed anywhere by anyone from clear easy-to-follow instructions provided. Individual listeners may vary volume to suit their own requirements by means of small volume control boxes. 7 Watt Amplifier (full description on page 68) handles up to 50 earphone units of the crystal type. (See listings below.) Impossible to hook up wrong. Sound pickup unit (Fig. A) is special high sensitivity static-velocity type with 25 foot cord and plug. For 110 volts, 60 cycles, AC. 93-200. Knight Hearing-Aid System with tubes and instructions. (Select accessories below.) 25 lbs. \$26.75

85-015. Fig. 8. Hearing-Aid Volume Control Box. Permits adjustment of volume to individual requirements. 1½ × 2′ x 2½′. Has tip jacks for phone cord and 50,000 ohm volume control. Brown crystalline finish. 4 tt. cord. NET...\$1.65 59-155, Fig. C. Crystal Earphone with 5 ft. cord . . \$2,94

59-157, Fig. D. Lorgnette 'Phone with 5 ft. cord ...\$3.82

music, etc. Every church can afford the moderately priced "Ecclesia" System.

"Ecclesia" Specifications: Amplifier has 30 watts output (see page 73 for full description). Features two separate microphone inputs with individual controls; Inverse Feedback; lighted, slanted control panel; speaker selector, etc. A low-feedback Shure Uniplex Crystal microphone is supplied on desk stand for pulpit use; an Electro-Voice V-1 Velocity mike on floor stand is provided for choir use. Two 12' Knight Speakers are mounted in beautiful walnut-finished wall baffles.

"Ecclesia" System Complete. Includes: Knight 30 Watt Deluxe Amplifier with tubes; Shure Uniplex Crystal microphone and desk stand; Electro-Voice V-1 Velocity mike on floor stand—each with 25 foot cord; 2—12' Knight Speakers with 30 foot cords in walnut wall baffles. For 110 volts, 60 cycles AC. 18450

93-170. NET PRICE

Terms: 516.90 down, 59.30 monthly for 8 months.

Knight "ECCLESIA" CHIMES SYSTEM

Bring the spirit of your church into your community with this special "Ecclesia" System designed for powerful outdoor broadcast of chimes, organ music or choir. Makes an ideal memorial to perpetuate the memory of loved ones. This fine System will carry to your community, choir and solo music, organ recitals, chimes, and sermons; it can be used to create a festive atmosphere on church holidays, etc. In addition, with the accessories listed at right, it can also serve for sound reinforcement indoors, for church socials, for hearing-aid applications, etc.

Easy to Install and Operate. The "Ecclesia" Chimes System is designed for easy installation. Complete, clear instructions provided permit quick, simple installation by anyone. It's easy to operate, too; there's no special skill needed.

Fits Your Church Budget. The "Ecclesia" System eliminates the expense of costly chimes and carillons. At a truly budget-minded price, it places within the reach of even the smallest church, all the advantages, dignity and prestige of powerful church chimes broadcast as well as other useful sound reinforcement applications.

"Ecclesia" Chimes System Complete: Includes: Knight 60 Watt Amplifier (see Page 74) complete with tubes, phono top and built-in V. I. Meter; 4-Kainer Steel Trumpets and mounts with Jensen PAH-8 driver units and line transformers; 150 foot cable (one length); Shure Uniplex Crystal mike on floor stand; set of 5—12-inch two-sided chime recordings (specify choice from listing at right). For 110 volts, 60 cycles AC. Shyp. wt., 275 lbs. 93-195. NET CASH PRICE.

\$51.00 down, \$28.05 monthly for 8 months.

93-205, 12-inch Knight Speaker with 30 foot cord and plug, in walnut wall baffle. Recom-mended for use as indoor speaker with Chimes System. Shpg. wt., 101bs. NET PRICE \$11,50

93-250. Electro-Voice V-1 Velocity Mike with 25 foot cord and plug, on floor stand. Recommended as additional microphone for choir or general use. Shop. wt., 20 lbs. NET...\$14.75

(See listing at right for complete selection of beautiful chime recordings, especially suited for the "Ecclesia" System.)

SUNCO CHIMES RECORDS

Two-sided 78 RPM 12-inch acetate records; vibra-harp and chimes.

List of Titles

- 1. Rock of Ages-Lead Kindly Light
- 2. Evening Star-Goin' Home
- 3. Beautiful Isle of Somewhere-Whispering Hope
- 4. Abide With Me-Nearer My God to Thee
- 5. Sweet Hour of Prayer-Face to Face
- 6. End of a Perfect Day— Day is Dying in the West
- Stand Up, Stand Up for Jesus-How Firm a Foundation
- 8. Bell Ringing-Canterbury Chimes 9. Westminster Chimes-Doxology
- 10. Largo (Handel)-Wiegenlied

93-230. Specify Titles. NET, EACH

FOR THE CHURCH AND SCHOOL



Knight BASIC SCHOOL SYSTEM

Every school, large or small, can now afford its own Centralized Sound System. Here is the complete low-cost answer to the school demand for a dependable and versatile system that will provide adequate coverage and fine tone quality. (Lack of ready funds need not delay your purchase—for Easy Terms, see page 66.)

For Voice and Record Transmission. This 30 Watt School System permits the transmission of speech and recordings to any individual speaker or to any group of speakers at will. Selection of desired speakers is made by means of a compact switch box, containing twenty-five switches, each controlling a separate speaker. Permits the relaying of educational talks and programs, of emergency calls, musical and educational recordings, etc. Installation and operation are simple. Practical for any size school.

Use Up To 25 Speakers. The Knight Basic School System is built around the Deluxe 30 Watt Amplifier (full description on page 73) which is capable of driving up to 25 dynamic speakers. Affords coverage of class-rooms, auditorium, gymnasium, studyhall, cafeteria, etc. Unusually flexible and versatile.

Basic School System. Includes: 1—Knight 30 Watt Amplifier with built-in Phono Top and RCA tubes; Shure Crystal Microphone with 25 foot cable and plug, on desk stand equipped with switch; 1—8' Dynamic Speaker in wall baffle with volume control for monitor use to check program broadcasts at point of control; special 25-position Selector Switch Box. With instructions. (See below for accessories.)

Shpg. wt. 65 lbs.

93-171. NET CASH PRICE.
Terms: \$16.35 down, \$9.00 monthly for 8 months.

ADDITIONAL SCHOOL SYSTEM EQUIPMENT

93-206. Standard 8-inch Dynamic Room Speaker, in wall baffle as illustrated above. Use one of these speakers in each Classroom, Study-Hall or wherever program coverage is desired. Wt., 8 lbs. NET.........\$4.95 47-591. Special 2-conductor speaker connecting cable. 100 Feet \$2.18

Knight SCHOLASTIC RECORDER

Progressive educational institutions have been quick to grasp the advantages of Recording Equipment as an aid to learning; ideal for speech correction work, in musical and language instruction, in dramatic work, etc. The low-cost Knight Scholastic Recorder makes possible the ownership of this quality equipment by any school.



This low-priced complete Dual-Speed Recorder is actually three instruments in one: (1) an easily-operated Recorder; (2) an efficient Record Player; (3) a complete 3 watt Public Address System. Enables your students to make their own records of speech, singing, etc., or to take educational programs "off the air." Plays back the recordings you make, as well as all commercial 10' or 12' records. Employs crystal cutting head and low-pressure crystal playback pickup. Cuts records up to 10' in diameter, outside to inside, grooving 110 lines per inch. Equipped with powerful dual-speed induction motor, with internal rim drive; cuts at either 78 or 33½ RPM.

The Knight Scholastic Recorder is supplied complete, ready for operation. Has Shure Crystal microphone with desk stand. An efficient 6' Electro-dynamic speaker is mounted at front of case. Amplifier uses five tubes. Has selector switch for instant shift from "Recording" to "Playback" or "PA"; Volume control and on-off switch; Tone Control; and separate motor switch. In airplane luggage cloth case; size: 16' x 16' x 14' high. With tubes. For 110 volts, 60 cycles AC. Shog. wt., 40 lbs.

96-210, Knight Recorder Complete.

THE Knight "SOLO KING"

Amplify your musical instruments—get distinctive new musical effects and wide-penetrating coverage with these "Solo King" Systems. Help to put new pep into swing arrangements, to bring up feature passages, for fades, overtones, treble endings, etc. Tiny Contact Pickups (Fig. A) may be attached to your own string or reed instrument with adhesive tape or special clamp (see page 93). Special Electric Guitar comes complete with its own built-in pickup. Has provision for easy attachment to system.

14 WATT BASIC "SOLO KING" SYSTEM

Consists of: 14 Watt High-Gain Amplifier, 12-inch Speaker with 30 foot cable and plug, housed in a compact portable case, 22/z' x 19½' x 15'. (See complete amplifier description on pages 70-71.) Case has space to accommodate an additional speaker. System includes Foot-Pedal Volume Control (Fig. B) which leaves your hands free to play, yet allows you to produce tremolos, fading effects, etc. System is designed for easy operation; no technical knowledge is required. Includes complete instructions. For 110 volts, 60 cycles AC. \$4595 With tubes. Less Contact Pickup. (See accessories below.) Shpg. wt., 59 lbs. \$4595 93-037. NET CASH PRICE

TERMS: \$9.19 down, \$5.06 monthly for 8 months.

7 WATT BASIC "SOLO KING" SYSTEM

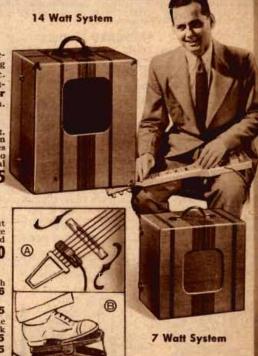
An ideal Economy "Solo-King" System for small orchestras and soloists. Has good output and surprisingly fine tone quality. Consists of **Knight** 7 Watt amplifier and tubes (see page 68); foot-pedal volume control and 25 foot cable and plug; one 8' Speaker with 30 foot cord and plug; all in a single carrying case 13¼' x 13¼' x 10½', Wt. 32 lbs.

93-016. NET PRICE.

\$28.50

"SOLO KING" ACCESSORIES

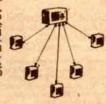
85-800. Amperite SKH Kontak Pickup with 15 foot cable and plug, for use with above systems. (See page 93 for description.) Shpg. wt., 2 lbs. NET PRICE.....\$7.06 B5-850, Knight Centact Mike with 15 foot cord and plug. (See page 93.) Shpg. wt., 2 lbs. NET PRICE. \$5.85 2 lbs. NET PRICE. \$5.85 85-050, Standard Electric Guitar. Illustrated above. Has 19' scale. Comes complete with built-in high impedance magnetic Pickup unit. Has 7½ foot cord and plug for quick attachment to PA system. Shpg. wt., 5 lbs. NET PRICE. \$10.75 85-051. Carrying Case for above Guitar. Shpg. wt., 5 lbs. NET PRICE. \$1.95 85-055, Finger-Pick Set for Guitars. Shpg. wt., 2 lbs. NET PRICE......85C 85-056. Instruction Book for Electric Guitars, Shpg. wt., 1 lb. NET PRICE 750





AUTOMATIC • DEPENDABLE • INSTANTANEOUS SYSTEMS FOR EVERY PURPOSE MASTER SELECTIVE SYSTEMS — FILL 90% OF ALL INTERCOM REQUIREMENTS

Your intercommunication problems can now be solved—dependably, economically—with the Knight Master Selective Systems. Master Selective systems consist of one Master Station and as many Sub-Station units as are required, up to a total of five or ten. You can build up your system progressively—beginning with the Master Station and one Sub-Station, and adding other Sub-Stations as the need develops. Master Station may call any Sub-Station individually, for completely private conversation, or may call all Sub-Stations simultaneously for paging, general announcements, etc. Sub-Stations may call Master Station but not each other. Operate with full efficiency with as much as 2,000 feet of cable on each Sub-Station.

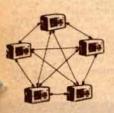


Master Selective Systems feature: Silent Operation—shuts out all sounds from Sub-Station locations when system is not in use: Far-Reaching Power—voice will carry clearly 25 to 50 feet from Sub-Station unit. Person called at Sub-Station may answer from same distance without leaving his work as there are no switches to operate when answering calls. Volume easily adjusted from a whisper to full room volume. Remarkable Economy—complete system can be operated for only 15 to 20 cents per month for electric current. Operate Anywhere—work from 110-115 volts AC or DC. Handsome Design—All Master Station units are housed in rich walnut-finished cabinets; Standard Sub-Stations have metal cabinets; deluxe Sub-Stations have walnut cabinets.

STANDARD MODELS

Standard models have 1-watt output; person at Sub-Stations may answer from distance up to 25 feet. Handles one to five Sub-Stations. Master Station in roll-top walnut-finished cabinet, 9½" x 8" x 5½"; Sub-Stations in metal cabinets, 7" x 5½" x 3½".

95-800. Standard Master Station. Shpg. wt., 12 lbs. Complete with tubes and instructions; less cable.



SUPER-SELECTIVE SYSTEMS

Here is an unusually versatile, low-cost intercommunication system offering complete privacy of conversation and flexibility to meet all kinds of requirements in industry, offices, institutions, etc. Consists entirely of Master Station units so that several separate two-way conversations may be carried on simultaneously without cross-talk. Up to 2000 feet of cable may be used between stations, Any station may talk to any other station at will. Silencing feature Variable volume controls permit regulation from a whisper to full room volume. Housed in handsome walnut-finished cabinets: Standard Models are 9½" x 8" x 5½"; Deluxe Models are 12" x 6" x 5½". For operation from 110-115 volts AC or DC.

STANDARD MODELS

The standard models of the Super-Selective Systems have 1 watt power output. From two to five Station units may be used. In systems using five units, two separate two-way conversations may be held sim-ultaneously without cross talk. Shpg. wt., 12 lbs. each unit.

95-825. Standard Super-Selective Unit. Complete with tubes. NET EACH 49-602. Connecting Cable for 95-825 units. PER 10 FEET 60c 95-830. 10 STATION SUPER-SELECTIVE UNIT. Identical with above, but for any number of stations from two to ten. \$20.95 Shpg. wt., 13 lbs. NET EACH. 49-603. Connecting Cable for 95-830 units. PER 10 FEET 90c

DELUXE MODELS

DELUXE MODELS

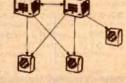
2½ watts output. Handles up to 10 Sub-Stations. Picks up voice 50' from Sub-Station. Master Station in walnut-finished cabinet, 12" x 6" x 5½"; Sub-Stations in walnut-finished cabinets, 7½" x 6" x 4".

95-816. As above but with privacy earphone. Lifting earphone automatically disconnects loudspeaker. Shpg. wt., 15 lbs. \$36.50

95-817. Deluxe Sub-Station Unit. Shpg. wt., 6 lbs. NET \$8.95

COMBINATION SYSTEMS

Affords the ultimate in flexibility. Consists of Master Stations and Sub-Stations in any combination desired. Master Stations may call any other Master or Sub-Station; Sub-Stations may answer but cannot originate calls. All Masters may have Sub-Stations in common, or any Master may have individual Sub-Stations. Diagram illustrates typical installation: two Masters have two Sub-Stations in common, and one Master has its own Sub-Station; first Master cannot listen-in to the single Sub-Station at right. Standard Master station units have walnut cabinets, 9½ x 8½ x 5½. Sub-Stations have metal cabinets, 7" x 5½, x 3½." Deluxe units are all in walnut cabinets; Master units, size: 12" x 6" x 5½,"; Sub-Station units, size: 7½ x 6" x 4". For operation from 110 volts AC or DC.



STANDARD MODELS

95-860. 10 STATION COMBINATION UNIT. Identical to 95-850 but any combination of 10 units may be used. Sub-\$23.50 Stations and cable listed above. Shpg. wt., 13 lbs. NET.... \$23.50 49-612. Cable for interconnecting 95-860 Masters. PER10 FT. 98c

DELUXE MODELS

Deluxe units have 21/4 watts output. Up to ten units may be used, in any combination of Masters and Sub-Stations.

95-865. Deluxe 10-Station Master Unit. 15 lbs. NET. . \$31.75

49-611. Cable for connecting Sub-Stations to Master. 10 FT

HOW TO ORDER CABLE. (A) For Master-Selective Systems and Sub-Stations of Combination Type Systems: Measure from Master to each Sub-Station, including distance above floor, walls, partitions, etc. Combine distances to all Sub-Stations to determine total cable needed. (B) For Super-Selective Systems and Master-Stations of Combination Type Systems: Measure from first Master to second, second to third, etc.





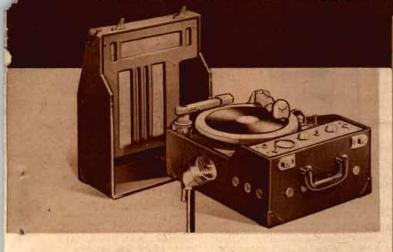
Knight Intercommunication Systems are ideal for use in stores, offices, warehouses, garages, factories, homes, schools, hospitals, etc. We can supply Knight Systems covering 20, 30, 40, 50, or more stations in any of the types described above, and shall be glad to quote prices on complete systems to meet your requirements.





INSTITUTIONS

COMPLETE PORTABLE RECORDER SYSTEMS



PRESTO MODEL K DUAL-SPEED RECORDER

A high-quality recorder, record player, and public address system complete in a single carrying case. Exceptionally light and compact Contains many features usually found only in most expensive units. Ideally suited to the requirements of schools and private instructors in speech, music, dramatics, law, etc. Excellent for use in sales training and for recording business conferences. Will record for 15 minutes continuously on a 13½ disc. Also records on 6, 8, 10 and 12 inch discs. Recording speeds, 33½ and 78 RPM. Cuts outside in or inside out at 112 lines per inch. Can be connected to any home radio for recording complete programs. Will play back all types of commercial records and home or professional recordings up to 13½ dia. As a PA system will serve audiences up to about 500 people. Amplifier frequency response is flat-within 2 db from 50 to 8,000 cycles. Has equalizer for 33½ RPM recording. Response of magnetic cutting head and magnetic playback unit, 80 to 5,000 CPS. 12 heavy cast metal, rubber-tired turntable is rim-driven by metal pulley mounted directly on shaft of heavy-duty constant-speed motor. Turntable speed held constant to within 4%. Carrying case in dark grey leatherette. Size: 19½ x 15½ x 14*. For 110 V., 60 cycle AC operation. Tubes: 3—6SQ7, 1—6N7, 2—45's, 1—80 rectifier. Shpg. wt., 59 lbs.

96-000. With tubes, less mike and stand.

85-900. Shure crystal mike, 25' cable, plug, and floor stand for above, Mike response, 30 to 10,000 CPS. In satin chrome case. Floor stand adjustable from 35' to 68'. Base is in grey crackle with red enamel trim. Combined shpg. wt., 18 lbs.

We can supply all Presto equipment, including professional recorders such as Models Y, 75-A, C, 6-D, etc. Write for information and professional discounts. State your needs in full for a prompt reply. 37-110. Presto Recording Equipment Catalog—FREE



KNIGHT DUAL-SPEED RECORDER

A new, high-quality, dual-speed deluxe recorder. Actually three instruments in one: (1) an easily operated recorder; (2) an efficient record player; (3) a complete Public Address system. An ideal unit for use in schools, in the home, for business conferences, etc. Plays back your own recordings as well as all standard 10° or 12° commercial records. Employs crystal cutting head and 1½ oz. crystal playback pickup. Cuts records up to 10° in diameter, outside to inside, grooving 110 lines per inch. Record driving pin automatically retracts when playing commercial records. Dynamically balanced, weighted turntable rim-driven at 78 and 33½ RPM by powerful constant-speed motor. The Knight Portable Recorder is supplied complete with Shure crystal microphone, desk stand, 6° electro-dynamic speaker, and tubes. Uses: 1—617GT pre-amplifier; 1—607GT driver; 1—686GT output; 1—5W4 rectifier; 1—607G driver; 1—686GT output; 1—5W4 rectifier; 1—605 electric-eye volume indicator. Has selector switch for "Recording," "Playback," or "PA." Housed in a durable case finished in striped airplane luggage cloth; size: 16° x 16° x 10¾°. For 110 volts, 60 cycles AC. Shpg. weight, 40 lbs.

SINGIF SPEED MODEL

SINGLE SPEED MODEL



WILCOX-GAY PORTABLE RECORDERS

DUAL-SPEED "RECORDIO PRO"

A combination radio, recorder, phonograph and PA system for schools, churches, business houses, recording studios, etc. Consists of a master unit and one or more turntable units. Use of two turntable units permits continuous recording or playback. Master unit contains: (1) 6-watt amplifier; (2) 2-band radio receiver; (3) Special 12" elliptical electro-dynamic speaker; and (4) Tone equalizer for 33½, RPM recordings. Turntable unit consists of a 10" dynamically balanced turntable rim-driven at 33½ and 78 RPM; 1½ oz. crystal pickup; crystal recording head with cutting depth adjustment. Records on plastic or acetate discs up to 10" dia. Manually plays all type records up to 12" dia. For 110V., 60 cycles. 96-316. Fig. A. Turntable A-102. In

96-316. Fig. A. Turntable A-102. In sturdy airplane luggage case. 16½ x 9½ x 16°. With connecting cables. Shipping weight, 26 lbs. \$40.00

96-315. Fig. B. Master Unit A-101. In sturdy airplane luggage case, 19½ x 16½ x 10½ overall. Tubes: 1-617; 2-6K7; 1-6A8; 2-6Q7; 2-6K6; 5W4 rectifier; and 1-6U5-6G5 tuning indicator. With tubes, crystal microphone, "hand-table" stand and 12 ft. shielded cable. \$85.00

MODEL A-103 DUAL-SPEED



KNIGHT STANDARD RECORDER

AND PLAYBACK UNIT

Here's a really low-cost instrument for complete home entertainment that makes recordings, plays records, or works as a portable PA system! Designed for easy portability, it plays all phonograph records up to 12°; records on discs up to 10° in diameter. 2 watt recording amplifier uses: 1—12,7GT, 1—12Q7GT, 1—50L6GT, 1—35Z5GT, and 1—6N5 electric-eye Volume Indicator. Self-Starting motor with dynamically balanced, weighted, rimdriven turntable maintains constant 78 RPM speed. Anyone can operate the Knight standard portable recorder; no technical knowledge is required. Recording mechanism is simple in design and foolproof. Lowering magnetic-type recording feed mechanism which instantly disengages when head is raised again. Recording feed is set at 110 lines per mch, working from outside in. Adjustments for arm height, cutting depth and needle angle are conveniently located on recording arm. 1½ oz. low-pressure crystal playback pickup assures excellent reproduction with a minimum of record scratch and greatly increased record life. Amplifier has volume control, tone control and selector switch for "Record," "Playback," or "PA"; speaker is high-quality 5° PM dynamic type. Housed in a handsome portable case, 18½° x 16¾° x 13°. Supplied with latest home-recording crystal microphone on desk stand with 7-foot cord; can be used as hand mike. For 110 volt, 60 cycle AC. Wt., 30 lbs.

96-220. NET.....

83

COMPLETE SELECTION OF RECORDING BLANKS



Here is the largest selection of nationally famous recording discs available today. We specialize in this field, and our large stock of high quality discs is complete and fast-moving—assuring you of fresh discs and prompt service always. Buy in quantities and save more.

HIGHEST QUALITY PROFESSIONAL BLANKS

The finest professional recording blanks made today, designed especially for the exacting requirements of commercial recording studios, broadcast stations, and other professional users. The new glass-base and steel-base blanks, developed and perfected since the diversion of aluminum to National Defense needs, are especially recommended. All aluminum discs are listed subject to prior sale.

FAMOUS PRESTO DISCS "GREEN SEAL"

Aluminum base, coated on both sides with a special Presto "Q" material. A mirror smooth surface permits clean cutting with low surface noise. 051" thickness overall. Assure excellent frequency response on all recordings.

No.	Dia.	Wt.	NET
69-000	8"	6 oz.	\$0.40
69-001		10 oz.	.55
69-002		10 oz.	.80

"GLASS BASE" TYPES

Glass base gives exceptionally smooth surface. "Q" coating on both sides. Discs give crisp, quiet cut. .105" thick overall. Shipped express only.

The second second second		and the second	Street of the second
69-005	12" 16"	2 lbs. 3 lbs.	\$1.25

OVERSIZE "GREEN SEAL"

For making master records in processing. Discs 1½*-1½* larger than standard size records. Aluminum base. Smoothly coated on both sides.

69-010 69-011 69-012	111/2"	2 lbs. 2 lbs.	\$.25
69-012	171/4"	3 lbs.	13	3.00

"ORANGE SEAL" STEEL BASE

Steel base .036" thick with smooth Presto "Q" coating on both sides. Will not buckle. Overall thickness, .046". For high-grade professional recording

Write for counts to			Dia-	
69-020 69-021 69-022	10*	10 oz. 10 oz. 12 oz. 12 oz.	550	

GOULD-MOODY GLASS BASE DISCS

Newly perfected glass base discs, mir-ror-smooth on both sides. For highest quality professional use; very low

		Bertilds.	ALC: UNKNOWN	NAME AND ADDRESS OF	STATE OF THE PARTY.		-
69-0	51	12"	12 lt	18.	150	.9	3
69-0	52	16"	3 It	s.	1	.8	6

NEW AUDIODISCS "RED LABEL" GLASS BASE

Made especially for professional recording requirements. Glass base with exceptionally smooth coating on both sides providing for superior frequency response and minimum of surface noise. Single-hole drilled. Shipped express only.

No.	Dia.	Wt.	NET
69-070	10"	11/2 lbs.	\$1.00
69-071	16"	1½ lbs. 2 lbs. 3 lbs.	2.50

"YELLOW LABEL" DISCS

An extensive line of general-purpose recording discs, especially suitable for studio and school use. Smooth coating on both sides over glass or steel base, as indicated. Fine quality discs; single-hole drilled. †Glass base, others steel.

69-080	6"	10 oz. \$0.	40
69-081	8"	14 oz.	55
69-082	10"	1 lb.	80
69-090	110"	1 1/2 lbs.	80
69-083	12"	11/2 lbs. 1.	00
69-091	†12"	2 lbs. 1.	00
69-092	116*	3 lbs. 2.	00

"BLUE LABEL" DISCS

Smoothly coated aluminum base discs. Long-lived; low needle scratch; coated both sides. .024"-.027" thick.

69-100	6"	8 oz. 1	25c
	8"		25c 35c
69-101	0	10 oz.	300
69-102	10*	10 oz.	50c
		12 oz.	
69-103	12"	12 02.	85c

Write for Audiodisc quantity dis-counts to schools, studios, etc.

SHIPPING CONTAINERS FOR GLASS BASE DISCS

Specially constructed containers assuring safety in transit of valuable transcriptions on glass base discs. Each container holds one to three discs. Shipping wt., 2 lbs.

No.	Containerfor	Net
96-800	12" discs	390
96-801	12" discs	390
	VIEW WILLIAM PROPERTY	Contract of the last of the la

SEMI-PROFESSIONAL RECORDING BLANKS

Especially suited for recording programs "off-the-air," performances of speech and music students, etc. For use with all types of recorders. Especially recommended for better home recordings. Recording time in minutes, 110 lines per inch at 78 RPM: 6"—1½, 6½"—2, 8"—3, 10"—4½, 12"—5½. Very attractively priced.

PAPER BASE PRESTO "MONOGRAM"

High-quality double-faced discs with an even coating of Presto "Q" material on paper base. Thickness, .05".

No.	Dia.	Wt.	NET
69-030	6"	4 oz.	\$0.20
69-031	8"	6 oz.	.35
69-032	10"	6 oz.	.50
69-033	12"	8 oz.	.70
69-034	16"	10 oz.	1.50
Write for I	Presto (quantity	prices.

*RECORDISC "ORANGE LABEL" Cellulose nitrate coating on processed

paper bond base. Donoie-raced.				
69-110	8"	5 oz.	9c	
69-111		8 oz.	13c	
69-112		10 oz.	20c	

*RECORDISCS ALLOY BASE "BLUE LABEL"

Nitrate coating on heavy alloy metal base. Mirror-smooth coating on both sides. Excellent quality low-cost discs.

No.	Dia.	Wt.	NET
69-120	61/2"	10 oz.	16c
69-121	10"	12 oz.	16c 23c 33c
69-123	12"	1 lb.	56c

KNIGHT HEAVY-DUTY

High-grade steel base discs, nitrate costed on both sides. Splendid frequency nitrate

responde, re	sourc very	muc cutti	rgo.
69-130 69-131 69-132 69-133	10"	10 oz. 12 oz. 14 oz. 1 lb.	14c 21c 29c 50c
The state of the s		The second second	

*FREE ALBUMS WITH RECORDISC PURCHASES

With every purchase of ten Recordisc blanks listed above and at right, we offer a free album containing ten pockets for convenient storage. Has durable cardboard cover and heavy kraft pockets. Specify stock number of size wanted.

96-810. For 6½ discs. 96-811. For 8 discs. 96-812. For 10 discs.

SPECIALS FOR HOME RECORDING



HOME RECORDING DISCS

Quality discs especially selected for home recording. Assure good frequency response, low surface noise. These discs are ideal for use on all types of home recording instruments.

FLEXIBLE BASE DISCS

KNIGHT

Bond base, non-inflam-mable, coated both sides. Of fine quality. Under-writers' approved. Include labels. Av. shipping weight, 2 lbs. per pkg.

		Quan.	
69-150 69-151 69-152 69-153	10"	Pkg. of 6 Pkg. of 6 Pkg. of 6 Pkg. of 6	.88

*RECORDISC "YELLOW LABEL" BLANKS

Flat paper base coated both sides with Underwriters' approved slow-burningcompound. Smooth surface assures good response. *Free album with each purchase of 2 packages; as press here of 2 packages; see note be-

WILCOX-GAY Double-faced, non-inflammable paper-base discs for excellent quality home recordings. With labels. Av. shpg. wt., 2 lbs. per pkg.

No.	Dia.	Quan.	NET
69-160	61/2"	Pkg. of 6	\$0.60
69-162	10"	Pkg. of 6 Pkg. of 6 Pkg. of 6	1.50
Write	or a	tractive ove discs	quantity

low. Av. wt., 2 lbs. per pkg.

No.	Dia.	Quan.	NET
69-170 69-171	61/2"	Pkg. of 6 Pkg. of 6 Pkg. of 6	39c 66c 98c

METAL BASE DISCS

The discs listed below consist of metal alloy bases smoothly coated on both sides to provide very quiet, clean cutting. HOWARD

Special lacquer coating on both sides of alloy metal base. Hardness processed; re-inforced edges. With 5-pocket album. Wt., 4 lbs. per pkg.

KNIGHT
Non-inflammable coating
on both sides of steel base,
6½" and 8" are .032" thick;
10"—.036". Excellent response. Av. shpg. wt., 12 oz.

	Size		
69-180 69-181 69-182	61/3° 10°	12c 18c 24c	11c 17c 23c

*RECORDISC "GREEN LABEL"

Heavy-gauge machined steel base smoothly coated with Underwriters' approved slow-burning compound. Double-faced. Carefully polished surface assures uni-form cutting. For excellent quality recordings. *Free

album with purchase of 10 records; see note bottom left.

No. Dia. Quan. NET 69-200 6½° Pkg.of5 \$1.00 69-201 8° Pkg.of5 2.00

No.	Dia.	Wt.	NET
No. 69-210 69-211 69-212	6½" 8" 10"	10 oz. 12 oz. 14 oz.	13c 19c 26c

RECORDING AND PLAYBACK NEEDLES
Carefully selected cutting and playback needles for home recording. Assure excellent recording and reproduction. See
opposite page for illustrations and further details.

CUTTING NEEDLES

Knight flat-shank steel needles. Special alloy steel polished to razor-sharp edge. Cut all coated blanks with reduced surface noise. 65-900. 65-803. Pkg. of 5 in pro-tective cover. 590

EACH \$1.18

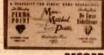
PLAYBACK NEEDLES

"Walce" Sapphire Needle. A shadowgraphed needle which will play more than 2500 discs. Does not wear discs; provides excellent fre-quency response.

Knight Steel Needles. Quality steel playback needles designed especially for use with average type of home recording disc. Tested by shadowgraph process to assure perfect point.

65-826. Pkg. of 50. 7C 10 Pkgs. NET......63c

PERMO MICRO-MATCHED POINTS



Cutting stylus good for 400 6" discs; playback needle good for 4,000 plays. Platinum-metals points.

65-811. Per set of 2....\$1.79

RECORD MAILING ENVELOPES

Heavy envelopes with cardboard inserts, flap, sealing string. Provide for safety of valuable discs in transit.

65-500.	For 6" disc. Shpg. wt., 2 lbs. 12	For 39c
65-501.	For 8" disc. Shpg. wt., 3 lbs. 12	For 49c
65-502.	For 10° disc. Shpg. wt., 5 lbs. 1	2 For 59c
65-503.	For 12" disc. Shpg. wt., 5 lbs. 1	2 For 79c

RECORD LABELS

Neatly styled gummed record labels; have blank spaces for filling in title, date and recorder. Fit all discs.



RECORDING NEEDLES

HOW TO SELECT THE PROPER RECORD-CUTTING NEEDLE

RECORD-CUTTING NEEDLE

Sapphires—These needles have the finest and hardest point. They are of the low friction type and take an extremely fine polish. Give 5 hours of service; can be resharpened. Sapphires are the most economical type to use. Stellite—These needles are constructed of a hard metal alloy. They cut about as well as sapphire and can be resharpened also, Give 2 hours of cutting service. Steel—Recommended where cost is a major consideration. While cut is not as sharp and quiet as obtained from sapphire, steel needles are satisfactory for many purposes. Cannot be resharpened. Give cutting service of 20 minutes.

SAPPHIRE CUTTING NEEDLES-FIG. A

65-800. KNIGHT. Precision-ground and polished, high-quality sapphire cutting needles. Have long life and excellent fidelity. For all acetate or other coated type discs.

\$3.25

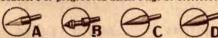
65-850. PRESTO. Finest quality, sharpest recording needles available. Accurately ground and polished. For use on acetate and similar discs. \$6.00

We resharpen sapphire needles at \$1.95 each. STELLITE & ALLOY CUTTING NEEDLES-FIG. B

A fine quality metal recording needle made of a special high tensile alloy called stellite. Cuts all coated blanks with a minimum of surface noise.
65-801. Can be resharpened for 50c, EACH. \$1.00 65-802. Cannot be resharpened.

STEEL CUTTING NEEDLES-FIG. C

65-804. RECOTON. Diamond-dust-polished steel needle. Twice the life of most steel needles. 950 65-851. PRESTO. Long shank for use in Professional 1-B head. PKG. OF 3, NET ... \$1.00 65-852. PRESTO. Short flat shank for all other heads. PKG. OF 3, NET ... \$1.00 65-880. RCA Victor Steel Home Recording 250 Needles. For pregrooved discs. Pkg. of 8....... 250



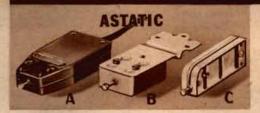
PLAYBACK NEEDLES FOR COATED DISCS

RECORD-MAKING ACCESSORIES

69-900. Cutting Lubricant. For use on disc before cutting. Reduces surface noise. For acetate or 290 aluminum discs. 4-oz. bottle. NET.
69-901. Record Permertiser. Use on disc after cutting. Preserves record. 4 oz. NET... 290

RECORD THREAD REMOVER







A high-quality, wide-range magnetic cutting head with many new features. Ideal for home recording. Operates directly from voice coil output circuit of any radio or amplifier with power input of 1/4 to 1/2 watt. Impedance, 10 ohms at 400 cycles; DC resistance, 4 ohms. Response, 30 to 7000 CPS. Records on practically all recording materials. Accommodates steel, alloy, or sapphire cutting needle. Fits directly into General Industries recording mechanism. Has 2 tapped holes for adaptation to other mountings. 36° lexible leads. Length, overall, 3½°; length less screw, 3½°. Shpgweight, 8 oz.
65-300, Model 44A.
\$6.76



Records and plays back from any radio or amplifier with output of 3 watts or more. Install on turntable, and radio or mike programs can be recorded and played back instantly. For use with pregrooved records only. Employs "Alnico" steel magnet. Needle pressure, 3 oz. Has splendid frequency response of 60 to 5500 CPS, 10,000 ohms impedance; for connection to plate of output stage for cutting, or direct to audio grid for playback. Length, 9°, Shpg. wt., 1 lb. \$2.95

GROOVE MAGNIFIER



3" square bakelite meter designed especially for monitoring purposes. For 8 and 500 ohm magnetic heads, or crystal cutters with transformers. Meter reads to +25-db. and to 200 V. Direct-reading scales indicate "too low." "recording level," "too high." Metal case, 4½" x 4½"s weter hole, 2½"s, wt., meter 2 lbs.; case, 1 lb.

85-002. Meter \$7.95 s6-390. Case 980

RECORDING BOOKS

37-640. FUN WITH A RECORDER. 30 amusing skits in radio script form. 1 lb. 70c

37-660. TECH-NIQUES OF RECORDING. By Goldsmith and Geisel. 16 chapters on the art of recording. Wt. 980 1 lb. NET. 980 37-641. HOW TO MAKE GOOD RECORDINGS. A complete handbook on modern techniques. Wt. 900 1 lb. NET. 900

GROOVE MICROSCOPE

KNIGHT RECORD-

METER

For use in determining quality and depth of record grooves and condition of needles. Easily adjustable focus. Magnifying power, 15 times. Illuminates disc surface by self-contained No. 1 battery and small bulb. Finished in black. With complete instructions. Shpg. wt., 1 lb. \$2.25





KNIGHT RECORDING UNIT

KNIGHT RECORDING UNIT
Designed for those who wish to assemble their
own Recorder-Phonograph instruments. The
Knight Recording Unit is ruggedly built; adjustments have been held to a minimum to insure simple, easy operation by anyone. Heavy
weighted turntable is rim-driven at 78 RPM
by a powerful self-starting motor. The highquality magnetic cutting head is adjustable
for depth of cut, needle angle, and arm height;
cuts 110 lines per inch from outside to inside.
Has positive worm and gear drive for the
cutting head. The Crystal playback pickup is
of the 1½ oz. low-pressure type for better
fidelity. Records on any disc up to 10°; will
play all phonograph records up to 12°. Operates
from any 6-8 ohm voice coil circuit supplying
3 watts power. Size: 13° x 12½°; 2½° above
board. 4½° below. Here's a really dependable,
complete recording mechanism at a very low
price. It's easy to operate and will provide
excellent recordings together with convenient
playback facilities. For 110 volts, 60 cycles AC.
Shpg. wt., 19 lbs.

\$13.75



PRESTO 11-A MOTOR

A professional dual-speed recording motor and turntable assembly for cus-A professional dual-speed recording motor and turatable assembly for custom-built radio-phonographs, centralized sound systems, portable transcription-playback units, sound effects reproducing equipment, or wherever a high-grade recording and playback unit is required. Operates at either 78 or 33½ RPM; has quick-action changeover feature. 12" turntable is rim-driven through exclusive rubber tire-drive; hand-machined for perfect dynamic balance. Motor is suspended in live rubber for quiet operation. Plays 16" transcriptions without "wows" or change of pitch due to drag of pickup. Maintains speel with accuracy within 4% at both 78 and 33½ RPM. Size overall: 14½" x 12½"; 1½" above motor board, 5" below. Brown enamel finish. For 110 V. 60 cycle AC. Shpg. wt., 18 lbs. 85-100.

BASIC RECORDING EQUIPMENT



GENERAL INDUSTRIES RECORDING AND PLAYBACK ASSEMBLIES

COMBINATION RECORD-CHANGER AND RECORDER

CHANGER AND RECORDER

Combination recorder and record-changer in a single basic unit. Operates at 78 RPM. Records on acetate and composition discs up to 10° in diameter. Plays all "home recorded" and commercial records up to 12° dia. manually. Changer handles twelve 10° or ten 12° records. Will change automatically any commercial record or "home recording" with center run-in grooves, and with or without lead-in grooves. Non-jamming record handling fingers. Has reject button and manual playing position. Only one lever to move when shifting from 10° to 12" records. Crystal-type recording head cuts at 110 lines per inch, working from outside-in. Has convenient depth-of-cut adjustment. Works with any good radio or amplifier having 3 watts output or more. Pickup is 1¼ oz. low pressure crystal type with response of 30-7000 CPS. Rim-driven 10° weighted turntable has retractable record driving pin. Induction motor is self-starting and dynamically balanced. Rubber-mounted. Base plate is 14x14". Mechanism extends 5% above, and 3½" below top of panel. Comes with on-off switch and all mounting hardware. For 110 V. 60 cycle AC operation. Brown iridescent finish. Shipping \$2700 self-101. Model GI-RC130L. NET

SINGLE-SPEED BASIC RECORDING UNIT

RECORDING UNIT

An ideal basic mechanism with which to assemble your own Recorder-Phonograph unit. Cuts records up to 10" dia. outside-in at 110 lines per inch. Plays records up to 12" dia. The cutter feed mechanism simply requires lowering the cutter arm over the record disc to start the recording operation. Cutting arm has adjustment for depth of cut. A retractable record driving pin on turntable permits playing standard records without further adjustment. The powerful 78 RPM induction type motor employs an internal rim-drive to the turntable. Motor is rubber insulated from base plate and turntable for quiet operation. Assembly includes; motor; 10" weighted turntable, dynamically balanced; cutting mechanism; crystal cutting head which will operate from any radio receiver or audio amplifier capable of supplying 3 watts of power; high impedance 1¼ oz. low pressure crystal pickup; cutter rest; base plate with formed down edges. Dimensions: 15" wide and 10" front to back; extends 2½" above base, 3" below. For 110 volts, 60 cycle AC operation.

Shpg. wt., 17 lbs.

96-103. Model GI-R70L. NET.

\$16.50

96-102. As above but has 2 oz. medium-pressure playback pickup. NET.....\$16.50

DUAL-SPEED BASIC RECORDING UNIT

A deluxe, dual speed, basic recording and play-back unit, especially suited for smartly styled custom-built installations. Operates at 33½ and 78 RPM. Records on all composition and acetate discs up to 10" in diameter. Plays back composition, acetate and commercial records up to 12" diameter. Crystal recording head cuts at 110 lines per inch from outside-in. Has convenient depth of cut adjustment in arm. Will work from any radio or amplifier having 3 watts output or more. Only necessary to lower cutting arm over record to start rehaving 3 watts output or more. Only necessary to lower cutting arm over record to start recording. Pickup is 1½ oz. low-pressure crystal type. Rim-drive dual speed motor is dynamically balanced for extra smooth running. 10° weighted turntable has retractable record drive-pin; no record slippage. Entire unit is shock mounted. Comes in attractive walnut grain finish on steel base plate with plastic trim on pickup and cutter arms. Base plate measures 15° W., by 11½ front to back. Mechanism extends 2½° above, and 3° below top of panel. Complete with speed-change dial and all mounting hardware. For 110 V., 60 cycles. Shpg. wt., 20 lbs. \$1950

96-105. Model GI-R90L. NET. 96-104. As above but has 2 oz. medium-pressure playback pickup. NET....\$19.50



KNIGHT 14 WATT RECORDING AMPLIFIER

96-201. Complete with tubes. NET\$26.48 85-002. Knight Recording V. I. Meter. NET.....\$7.95



RECORDING UNITS

Each includes cutter, carriage, drive mechanism, and feed screw. For any radio or amplifier with 3 watts or more. Record out-to-in at 100 lines per inch. Have chip-collector. Construction permits interchange of practically any cutting head. Response of each, 50-6500 CPS. Less motor.

12" Size. Wt., 8 Lbs. 96-152. Has Astatic \$37.00 X-29A crystal head.

96-150. Has M-41-8 Astatic 8 ohm magnetic head...\$37.00 96-151. Has M-41-500. 500 ohm mag. head.....\$37.00

16' Size. Wt., 11 Lbs. 96-155. Has Astatic \$44.50 X-29A Crystal.

96-153. Has M-41-8 Astatic 8 ohm magnetic head... \$44.50 96-154. Has M-41-500. 500 ohm mag, head.....\$44.50

PROFESSIONAL MOTORS

96-157. As above but has 16° balanced turntable. For motor board 23½° x 21½°. Extends 5° above and 7½° below mounting panel. Wt., 40 lbs. \$109.50



PRESTO 16 INCH **DUAL-SPEED MOTOR**

Heavy-duty type professional recording and playback motor. Used by leading broadcast stations, transcription makers, etc. Consists of a dynamically balanced 16° turntable rim-driven through a special rubber tire by a powerful synchronous motor at 78 or 33½ RPM. Both are assembled on a cast-metal base. Speed can be changed instantly by moving motor carriage to engage either section of drive pulley. Speed is maintained to an accuracy of .4%. Maximum noise level originating within turntable is 50 db, below maximum program level. Size of cast-metal base, 18½ x 20°. Extends 5° below, and 2½ above base. Can be used with Rek-O-Kut units listed at left or any similar recording assemblies. Wt., 55 lbs. \$155.00

WEBSTER-CHICAGO RECORD-CHANGER-RECORDERS



This unit will automatically play 12—10° or 10—12° commercial records or "home recordings" with center run-in grooves. Provides over an hour of continuous entertainment with one loading of 12° records. Rejects any record desired and permits optional playing of records manually. I oz. crystal cartridge insures long record life and high-fidelity reproduction. Positive action trip mechanism insures instant changeover as soon as needle reaches end of record. Push buttons provided for 10° to 12° changeover. Records on acetate or plastic discs up to 10°. Crystal cutter records outside-in at 98 lines per inch from

any radio or amplifier with 3 watts output or more. 10" turntable, worm-gear driven by constant speed motor, at 78 RPM. Brown enamel finish. Size, 15½" x 14½". Extends 5½" at 4½". Extends 5½" at 4½" at 4½". Extends 5½" at 4½", 60 cycle operation. Shpg. wt., 30 lbs. 96-090. NET. \$37.93

DELUXE MODEL

96-091. As above but plays 15 to 17 mixed 10" and 12" records. Size, 13½" x 17½". Shpg. wt., 35 lbs. \$55.86

AUTOMATIC RECORD CHANGERS With New Low Pressure Pickups



POPULAR SEEBURG RECORD CHANGER

A high quality Automatic Record Changer. Made by a leading manufacturer with a reputation for precision products. Will play fourteen 10" or ten 12" records automatically. Provides up to 50 minutes of continuous entertainment when loaded with 12" records. Repeats last record. Single control acts as onoff switch and rejects any record at will. Has positive trip mechanism. Tangent arm with 1½ oz. low pressure crystal pickup iš counterbalanced for minimum record wear and gives excellent frequency response. Smooth, gentleacting records selector blades cannot damage or harm records. The entire mechanism features precision machining throughout. Sturdy self-starting 78 RPM motor is designed for trouble-free service. Mounting base is 14" wide, 14" long, Mechanism extends 5½" above board, 3" below. For 110 volts, 60 cycles AC. Brownwrinkle finish. Shpg. wt., 26 lbs. 96-203.

GENERAL INDUSTRIES GI-C125L CHANGER

Exceptionally well-designed, positive and quiet in operation. Plays twelve 10° or ten 12° records automatically. Will furnish up to 50 minutes of uninterrupted entertainment when fully loaded with 12° records. Only a single lever to move when changing from one size record to another or to set for manual operation. Record handling fingers are of the nonjamming type; extend only to edge of record lead-in space, preventing marring of record. Records may be rejected by simply pressing "Reject" button. Tripping mechanism operated by either run-in or oscillating grooves. Means are provided for guiding pickup needle into the playing grooves on records without lead-in grooves. Sturdy base plate, 14° x 14° x ½°. Mechanism extends 5½6° above and 3½° below base. 1½ oz. low-pressure crystal pickup gives better tracking and less record wear. Pickup has excellent frequency response. With AC switch, but less cord. 78 RPM. 110 V., 60 cycles AC. Shpg. wt., 25 lbs.

96-100.

NET.

98-901. PORTABLE CASE. Sturdy airplane luggage type maroon stripe case for the G.I. Record Changer. With large record compartment, has carrying handle. Size, 15" x 15" x 13". Shipping weight, 15 lbs.

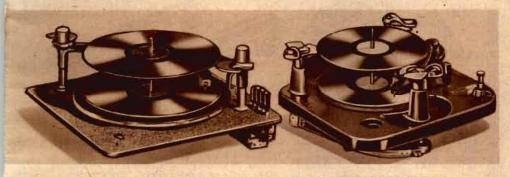
RCA MODEL 9932 RECORD CHANGER

One of the finest values ever offered those seeking a compact high-quality record changer. Handles all commercial records. Automatically plays ten 12" or twelve 10" records. Crystal pickup has permanent sapphire stylus. Truetracking tone arm counterbalanced to a maximum needle pressure of 2 oz. Has reject and manual playing provisions. Plays without attention for nearly one hour with a single loading of 12" records. Last record repeats until shut off. New feature permits removal of records from turntable without the necessity of turning record support levers. T irrable is driven at 78 RPM by powerful constant-speed type induction motor. Exclusive new safety clutch prevents possible damage to records or mechanism as the result of misoperation or playing of warped or faulty records. Size of mounting plate, 14% x 13% below mounting plate. For 115 V., 60 cycle AC operation. Shipping weight, 15 lbs.

96-130.

PS-900. PORTABLE CASE. Sturdy air-

98-900. PORTABLE CASE. Sturdy air-plane luggage-type maroon-striped case for 96-130 Changer. With large record compart-ment and motor board cut for above changer; has carrying handle. Shipping wt., 13 lbs. NET......\$7.95



RECORD CHANGERS WEBSTER-CHICAGO DELUXE CHANGER STANDARD CHANGER

96-081. Same as Model 5571 except 1 oz. pickup is equipped with permanent sapphire

98-903. Sturdy portable case for either model above, Wt., 15 lbs. NET.....\$8.45

The new Model 5591 Deluxe Record Changer offers the maximum in dependable versatility. Will play a 1½" stack of 10" and 12" records intermixed (15 to 17 records). A single loading of 12" records provides more than an hour of continuous entertainment. Mechanism stops automatically after last record has been played. Records can also be played manually, and any record rejected during automatic operation. I oz. counterbalanced tone arm contains crystal cartridge which takes any steel, alloy or sapphire needle. Insures long record life and permits high-quality reproduction with a minimum of scratch. Positive action tripmechanism insures instant changeover as soon as needle reaches end of record. Motor is heavy-duty, smooth-running, constant-speed type and drives balanced and weighted turntable at 78 RPM. Entire unit is rubbermounted for noise-free operation. Main mounting plate is of heavy die-cast construction, assuring complete rigidity. Construction is exceptionally compact and permits quick, easy installation in small space. Finished in hammered-bronze enamel. Size of mounting plate, 13½" x 17½". Mechanism extends 5½" above and 4½" below mounting plate. For 110 V., 60 cycle AC operation. Shpg. wt., 30 lbs.

96-083. Same as Model 5591 except 1 oz. occivum is equipmed with permanent samphire

96-083. Same as Model 5591 except 1 oz.

98-904. Sturdy airplane luggage type portable case for either changer above. Maroon striping. Compartment for storing records. With handle.



GARRARD DELUXE RC-30

PHONO ADAPTER

59-230. Will connect any changer or phonograph to any radio set not equipped with phono-input. Shpg. wt., 1 lb. NET......88C



LOW PRESSURE PICKUPS

These new crystal pickups feature basically different design resulting in truly new concepts of performance. Needle pressure is only one ounce. You get better reproduction with greatly decreased surface noise! Low needle pressure gives you greatly increased record life too! Preserves your valuable recordings.

SUPPLIED WITH SAPPHIRE STYLUS

The built-in permanent sapphire stylus does away with annoying needle changes. Special protective U-shaped guard and internal hold-down spring absorb shock and prevent damage to stylus. Functionally-curved offset arm assures low tracking error with balanced sidewall pressure. Model FP-8 frequency range is 30-5000 CPS with .85 V. output; supplied with LP-6 cartridge. Model FP-18 has range of 30-7000 CPS with .85 V. output, with LP-21 diecast metal cartridge. Model FP-38 has range of 30-10,000 CPS; output, .65 V. with LP-23 cartridge. For 10° and 12° records. Finish is rich maroon. High impedance. Length overall, .95%. Mounting center distance, 8°. With 24° shielded cable for easy connection. Shpg. wt., 2 lbs. 65-102. Model FP-38. EACH... \$9.70

SEMI-LOW PRESSURE PICKUP

A replaceable-needle type crystal pickup with many of the advantages of the low-pressure type pickups above. Needle pressure is only 1½ ounces with the lightest moving system possible to use with replaceable needles. Frequency range is 30-4500 CPS with output of .6 volts. Balanced arm with low tracking error results in lower surface noise and better reproduction. For 10° and 12° records. With L-40 cartridge. Shpg. wt., 1½ lbs. \$7.35 65-103. Model FL-48. NET.....\$7.35

MOBILE AB-8M

A crystal pickup designed for sound trucks, airplanes, cars, trains and other mobile units. Mechanically counter-balanced to prevent "groove-jumping." Has hinged head for rapid change of needle. Output, 2½ V. For 10 or 12" records. Needle pressure, 2½ oz. Has offset head for proper tracking. Length, 10½; mtg. center distance, 8". With locking arm rest and 2½ shielded cable. Black finish. 2½ lbs. \$7.35

MODEL AB-8

Crystal Pickup. With spring axial cushion to prevent effects of motor vibration. Response, 50 to 5000 CPS. Head is offset for proper tracking. Needle pressure, 2½ 02.; output, 2.5 V. With B-2 cartridge. For 10° or 12° records. Mtg. center distance, 8°. Brown finish. With 4 ft. cable and arm rest. Shipping wt., 2½ lbs. 65-105. NET \$5.88

STANDARD MODELS

Carefully balanced crystal pickups. Audio response, 60-5000 CPS. With ball-bearing swivel base. Needle pressure, 234 oz.; output, 2.5 V. Cushioned arm. B-2 cartridge. 4 ft. shielded cable and arm rest. 2½ lbs.

65-106. S-8. For 10" and 12" records. \$5.88

65-107. S-12. For 10" to 16" records, \$7.35



16" LOW PRESSURE

Low pressure, crystal pickup with permanent sapphire stylus. HP-16 output. 85 V; range, 30-7000 CPS. HP-36 output, .65 V.; range, 30-10,000 CPS. Needle pressure, only 1 oz. For records up to 16°. Length 15°. Mtg. ctrs., 12°. With 24° shielded cable and arm rest. Wt., 2 lbs. 65-108. HP-16. 65-109. HP-36. \$14.70

MODEL 07

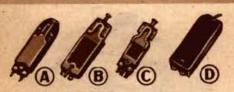
Die-cast arm with offset crystal head assures minimum tracking error and surface noise. Easy to load; vibration-proofed. For 10" to 12" records. Response 70 to 4500 CPS. Needle pressure, 2% oz.; output, 2.9 V. 4 ft. cable. Locking arm rest. M22 cartridge. Shpg. wt., 1½ lbs. 65-110.07. Black 65-111. U7S. Brown. EACH. \$3.82

ASTATIC TRU-TAN

Offset crystal head. Response, 50 to 7000 CPS. Arm pivots on ball-bearings. Rotating head facilitates needle loading. Pressure, 2½ oz.; output, 2.5 V. With B2 cartridge. Black finish. Shpg. wt., 3 lbs.

65-112. B-10. For 10° and 12" records. \$10.29

65-113. B-16. For rec-ords to 16'. NET. \$13.23



ASTATIC REPLACEMENT CARTRIDGES

Precision built. B type cartridges in bakelite housing. LP, L, and M cartridges in die-cast metal cases. **For record changers. Wt., 8 oz.

Stock No.	Model	Fig.	Used In	NET
65-150	LP-6	A	FP-8	\$4.70
65-151	LP-21	A	FP-18	4.70
65-152	LP-23	A	FP-38	4.70
65-153	L-40	A	FL-48	2.35
65-154	L-22	C	AL-8	2.94
65-155	L-25	B	FL-58	2.94
65-156	L-26	C	D9-SL8	2.35
65-157		C	0-7	2.94
65-158	B-2	D	S-8, S-12,	2.94
OG Sugar	BOAR I		B-10, B-16, AB-8, AB8M	1000000
65-159	B-4	D	**	2,94



UNIVERSAL CARTRIDGE

65-350. Fig. A. Shure Model W27C. Replaces bakelite encased crystal cartridges in any standard pickup. With parts for lug, screw, or pin terminals. 21/4" long, 3/4" wide, \$2.94

TONE EQUALIZER

65-121. Fig. B. Varies response characteristics of crystal pickup for bass, medium, or high. Size, 2" x ¾". Single hole mount. Wt., 1 lb. \$1.76

SCRATCH FILTER

65-120. Fig. C. For use with any magnetic or crystal pickup. Sealed metal case, 1 1/6 x 2 1/2 x 1/4. Wt.,



ASTATIC MODEL SL-8

A straight-arm crystal pickup particularly suited for playing lightly cut home recordings. Die-case and cushioned arm finished in statuary brown. Needle pressure, 2½ oz.; output, 1.4 V. across ½ megohm load. Response, 70-4500 CPS. For 10° and 12° records. With L-26 cartridge. Length, 9½°; height, 1¾°. Wt., 1½ lbs.

65-114. NET.

52.91

MODEL D9

A low-cost crystal pickup. With high-per-formance standards. Die-cast Tru-Tan arm; plays all 10-12' records. Response, 70-4500 CPS. Needle pressure, 2½ oz., output, 1.4 V. across ½ megohm load. Statuary brown finish. With locking arm rest. With L-26 cartridge. Length, 9½". 1½ lbs. \$2.91



KNIGHT AUTOMATIC RECORD CHANGER WITH LOW-PRESSURE PICKUP



A low-pressure, accurately balanced crystal pickup at a sensationally low price. Needle pressure is only 1½ ounces which greatly prolongs record life and reduces surface noise. Cartridge is set at a tangent for proper needle tracking. Frequency response is 40-4500 CPS. Crystal is of the high-impedance type with an output of .6 volts at 1000 CPS. Replaceable needle held in chuck by thumbscrew. Ideal for use with sapphire needles. Single hole mounting greatly simplifies installation. Length is only 8. Pivot and swivel mounting for easy needle loading. Handsomely finished in brown enamel. With 24 cable, Shpg. wt., 1½ lbs.

52.45



H-6 ONE OUNCE PICKUP

The Garrard H-6 Deluxe Crystal Pickup in-corporates every latest engineering improvement. Same as used in type RC-30 record changer. Arm is of all-metal construction, finished in lacquered brown. It is perfectly balanced and has jewelled mount and pivot. Special curve of arm provides true tangent position, insuring proper tracking and maximum fidelity of reproduction.

WITH PERMANENT SAPPHIRE NEEDLE

65-051. Same as 65-050 above in every respect except has exceptionally wide frequency response of 30 to 10,000 CPS. Shipping weight, 4 lbs.

CARTRIDGES

Shure Crystal Type. Will replace other flat type cartridges and give improved performance. Genuine Bimorph Crystals. 2½% L. ½% W. ½% D. Shpg. wt., 4 oz.

65-351. ModelW42AN for Shure 97AN and other make pickups with 1 oz. or more pressure. 1.4 V. output. Permanent sapphire stylus.

phire stylus. \$2.94

CRYSTAL PICKUPS

Crystal pickups of entirely new basic design. Have high output, low pressure. New bearing seats overcome "pinch" effect. Offset head corrects tracking error. The results are instantly recognizable in the superb realism of reproduction. Surface scratch is reduced to an absolute minimum, and record life is increased materially. Modern streamlined plastic arm in mahogany finish blends harmoniously with modern radio cabinets. Has playing radius of 7½", sufficient for records up to 12" dia. Overall length, 8½". Mounts in a single ½" or ½" hole. 14" shielded cable attached, ready for installation.

SHURE

Hi-Lo

65-303. Model 95A Semi-Le-Pressure Pickup. Same as Model 97A, above, but has 2 oz. needle pressure and 3 V. output at 1000 CPS. For use with any removable needle. Light weight moving system assures better performance and less record wear than with conventional pickups. Excellent for replacement of original equipment. Uses W40A cartridge (listed at left). With set screw, thumb screw and arm rest. Wt., 14 oz.



WEBSTER-RACINE PICKUPS

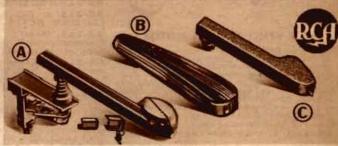
NEW SERIES AJT

65-401. Fig. A. 1½ oz. crystal pickup. Response 40-8500 CPS. Output .5 V. Brown bakelite arm. For 10"-12" records. With permometal replaceable needle. \$3.82

SERIES 82
65-406. Fig. 8. Modei X-52A-3-D. 2 oz. crystal pickup. 40 to
8500 CPS. Impedance at 1000
CPS. 80,000 ohms. Output 1.8 V.
for 10 and 12" records. \$2.23
Shpg. wt., 2 lbs. NET... \$3.23
65-415. Replacement crystal
for X-82 pickup. NET... \$2.32

MAGNETIC UNIT

65-403. Fig. C. Magnetic pick-up. Damped for excellent re-sponse. I V. output at 1000 CPS. Impedance, 18,000 ohms. \$4.70 Wt., 1½ lbs. NET ... \$4.70



RCA QUALITY PICKUPS

65-250. Fig. C. RCA 9891 Junior Crystal Pickup. Same as 9868 above, except finished in brown wrinkle. Wt., 1 1/4 lb. 65-265. Crystal replacement cartridge for above. NET....\$2.20



NEEDLE CUPS

46-800. Fig. A. Unbreakable needle cup of attractive
brown plastic. Fits 1½'
round hole. 6 oz.
NET. 56
12 For. 48c

46-801. Fig. B. Polished metal needle cup with spring hinge cover. For 1 1/4" hole. OC NET 00 12 For 77c

PHONO PICKUP CABLE Fig. C. Belden type 8431. Shielded cable, cotton braid 47-611. 10 FEET . 250 47-612. 25 Feet for 59c

For additional phono equip-ment including motors, phono pickups, record changers, needles, etc., see pages 84-90, 206-208.



MICRODYNE PICKUPS

New relay-action principle places resonance of moving system beyond audibility, eliminating harsh peaks. Exciter inertia is several hundred times less than moving armatures in other type units. Resultant clear, faithful reproduction is acclaimed by music lovers everywhere.

Microdyne D-27-E. For records up to 12' dia. Flat within ±3 db. to approx. 6600 cycles. Rising bass curve reaches about 9 db. at 50 cycles. Low vibratory momentum. Point pressure 1½ oz. Tip-jack connectors. Brown and gold finish. Length 12½'. High impedance. Wt., 2 lbs. \$10.88

65-481. Microdyne D-28-E. Same as D-27-E above except 14½ long. For records up to 16′ dia. High impedance. Tip-jack connectors. Wt., 2 lbs. \$17.35



MAGNETIC PICKUP

MAGNETIC PICKUP
The Webster-Chicago 5583
Pickup uses the very latest
type magnetic principle assuring results in brilliance of
tone and life-like reproduction not obtainable with
other types. The magnetic
structure utilizes newly developed alloys for improved
output level. It is practically independent of temperature or other climatic effects. The new tone arm obtains its free action in any
direction by means of a
jointed head mounting together with a swivel base.
High output impedance—
5000 ohms. Needle pressure
3 ounces. Output voltage
1.4V. Overall length of tone
arm 91/4. Equipped with
shielded cable 18 long.
Streamlined design. Shpg.
wt., 11b.
65-430. NET. \$4.41

65-430. NET ... \$4.41



BRUSH HI-FIDELITY PICKUPS

BRUSH HI-FIDELITY PICKUPS

By reason of extraordinary reduction in the inertia of the vibratory mechanism, these Brush pickups greatly extend the range of sound frequencies which may be satisfactorily reproduced. This, combined with the built-in, polished sapphire stylus and low 1 oz. pressure, all serve to greatly reduce record wear and background noise. The Brush pickups below will not only give finest-reproduction from the records of today, but will also reproduce the finest recordings that will become available tomorrow.

65-000. Fig. A. Model PL-25 Crystal Pickup. Wide response, flat within ±2.5 db. from 50-6000 cycles. Has slight rise to 10,000 CPS. Sapphire stylus. For 10*- \$16.17 12* records. Wt., 7 lbs. NET. \$16.17

65-020. High Impedance Equalizer for above. Wt., 1 lb. NET........\$1.47

65-001. Fig. B. Model PL-20 Crystal Pickup. Audio response, flat within ±2.5 db. from 30-6000 cycles. Has slight rise to 10,000 CPS. Sapphire stylus. For 10"-16" records. Wt., 8 lbs.



KNIGHT RIM-DRIVE MOTOR

A dependable motor at a sensationally low price. Suitable for all types of compact record playing equipment. The 9' turntable is rimdriven by a new 78 RPM constant-speed self-starting motor. Uniform speed is maintained even with variations in record drag, line voltage or operating temperature. Motor is shock-mounted to prevent vibration reaching the turntable; insures quiet operation. Dimensions are 4½" L. x 4½" W. x 2½" D. below plate. For 110 volts, 60 cycles. Wt., 7 lbs. 85-400.



RCA SYNCHRONOUS MOTOR

The same compact phono motor as used in RCA portable record players. Ideal for use in all types of portable record-playing equipment, for modernizing or wherever space is limited. Plays records up to 12". Synchronous type; manual-starting. Operates at 78 RPM from 105-125 volts, 60 cycles AC, without wows or mechanical vibration. Power consumption, 10 watts. With 7" turntable. Motor is only 7" in dia., 2½" D. Shpg. wt., 5 lbs.

85-450, RCA No, 33343. NET....\$3.50

NEW ALLIANCE MOTORS



MODEL 80 RIM-DRIVE MOTOR

MODEL 60 GEAR DRIVE MOTOR





Accurately checks 78 and 33½ RPM speed. Essential for best recording and playback results. 6° in dia. Use under light of 25, 50 or 60-cycle bulb. Wt., 6 oz. 76 69-510. NET.....76

GENERAL INDUSTRIES PHONO MOTORS





GREEN FLYER MOTORS SINGLE SPEED 78 RPM

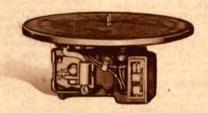
Model A. Heavy-duty 78 RPM motor. Silent, spiral-cut gears sealed in oil. With 10" turntable, mtg. plate, speed lever, and hardware. Size, 6\%" x 3\%" x 3\%" D. below plate. For 110 volts, 60 cycles. Shpg. wt., 10 lbs. \$85-200. List, \$14.60. NET\$8.76 85-201. Same as above, but with \$9.06 Model V. Identical to Model A above except with screw type speed regulator and less mounting plate. Motor size, 51% x 3% x 3% x 35% D. Shpg. wt., 8 lbs. \$7.65

2 SPEED 78-33 1/3 RPM

85-215. Universal Model N. 12" turntable and speed regulator. 9½" L. x 5½%" W. x 3¾" D. below plate. For 110 V. 50-60 cycles AC or 110 V. DC. Wt., 13 lbs. \$15.15

6 VOLT 2 SPEED MOTOR

Model R. Operates from 6 volts DC at 2.8 A. at 78 or 33½ RPM. Has 12" turntable. 8¾ x x 51¼ x 33½. Shpg. wt., 14 lbs. \$15.90 85-220. List, \$26.50. NET....\$15.90 Weighted 12" turntables can be supplied with any of above motors at \$1.80 extra.



HEAVY-DUTY "BLUE-FLYER"

85-226. Same as above but with standard 12" turntable. NET.........\$11.61

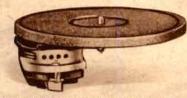
TURNTABLES ONLY

For use with all Green Flyer and Blue Flyer motors listed directly above.



CX AND KX GEAR DRIVE MOTOR

Model KX. Like Model CX above, but with 8" turntable and slightly smaller motor. \$4.86



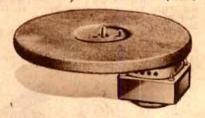
MODEL RX RIM-DRIVE MOTOR

A 78 RPM rim-driven, self-starting, induction motor. 8" turntable, Motor insulated for quiet operation. Will not overheat in closed case or cabinet. Drive pulley, idler, and turntable mounted in one plane for perfect alignment. 21% deep below mounting plate. For 110 volts, 60 cycles AC. Wt. 6 lbs.

85-260. NET. \$4.08

85-261. With 10" turntable. NET .. \$4.23

NEW MODEL LX RIM DRIVE



G.I. RM4 RECORDING MOTOR

G.I. RM4 RECORDING MOTOR

Newly developed rim-drive 78 RPM heavyduty motor with 10° weighted turntable, Excellent for use in recording or "constant-speed"
playback work. Turntable has retractable pin
for holding recording disc while being cut and
played back. Self-starting, dynamically balanced motor is rubber-insulated from both
mounting plate and turntable for quiet operation. Maintains constant speed even under
heavy "drag" imposed while recording, Oil-less
bronze bearings throughout. Drive pulley,
idler wheel, and turntable aligned in one plane.
Designed for steady and dependable operation.
Will not overheat in closed cases or cabinets.
Depth below plate, 21%,". With mounting
plate and hardware. For 110 volts, 60 cycles.
Shpg. wt., 151bs.

86.72

Knight PORTABLE PLAYER

This fine unit will bring you hours of enjoyable recorded entertainment at exceptionally low cost. Quickly and easily attached to any radio set or amplifier. Plays all 10- and 12-inch standard phonograph records. Has sturdy, self-starting 78 RPM motor. One ounce low-pressure crystal pickup reduces record wear; response, 40-6500 CPS. Additional features include volume control, pickup arm rest, and built-in needle cup. Attractive leatherette-covered case with hinged lid and carrying handle. Lid can be closed during playing operation. 15° wide, 12" deep, 6½" high. For 110 volts, 60 cycles AC. Shpg. wt., 10 lbs. 59.95

POPULAR CRYSTAL MIKES



ASTATIC T-3

ASTATIC T-3

An excellent wide-range crystal mike for general application in Recording, PA and Sound Installations, and Transmitting Equipment. Response is substantially uniform from 30 to 10,000 CPS, providing amplerange for most speech and musical requirements. Output level, -52 db. Tilting-head provides effective means of controlling acoustic feedback. Bullet-type case fitted with stand-type plug and connector, finished overall in polisned chrome. Has ½-27 thread. With 25-foot shielded cable. Less stand. Wt., 2 lbs. 99-300. List, \$25.00. \$14.70

Model GT-3. Same as above on "Grip-to-talk" desk stand, 81/4" high, with 8' cord. Wt., 5 lbs. 99-301. NET.... \$17.64

ASTATIC JT-3OTT

Semi-directional crystal type with fixed-angle head for optimum usefulness. Designed to provide good performance at low price. Used extensively for PA Work, Home Recording and Amateur Radio Stations. Has uniform response from 30 to 6000 CPS; ontput, —52 db. Internal suspension construction prevents pickup of extraneous vibrations and noises from case, stand, or floor. Housed in a compact, two-tone opalescent gray finished case, threaded %/"-27 to fit all stands. Equipped with 25-foot cable and concernic connector. Wood handle and interlocking metal base included; permit use as desk or hand microphone. Wt., 3 lbs.

99-302. List, \$15.50.59.11



SHURE CRYSTAL

Model 708A. Semi-directional type with smooth wide-range frequency response of 30-6000 CPS. Output, -49 db. Die-cast case finished in iridescent gray with chrome type trim. ½-27 thread. 7 foot cable and connector. Wt. 2½ lbs. \$10.29 99-363. NET. 99-364. As above but with 25 foot cable. NET ... \$11.17

SHURE 750-B HANDMIKE

"Military-type" crystal mike-fits palm of hand. Output, - 32.5 db. Die-cast case, iridescen gray finish. On-off thumb switch and 7 foot cable, Wt., 1 lb. 99-365.



ASTATIC N-30

Designed especially for modern PA work, the N-30 features exceptionally smooth response and faithful reproduction. Frequency response of 30-10,000 CPS is substantially flat and free from peaks. Output, level -52 db. below I volt per bar. Die-cast case with tilting swivel mount permits adjustment for either semi-directional or directional type pickup. Finished in bright chrome. Concentric cable connector provides means of quick interchange of cable. Case, 2" diam., 44% overall height. With 25-foot low-capacity shielded cable with locking connector and spring protector. Wt., 2 lbs.

SHURE UNI-DIRECTIONAL MIKES





These new Shure Uni-Directional Microphones are the effective solution to feedback problems for every type of microphone application. Dead at the rear; eliminate pickup of reverberation, audience and background noise. Overcome all types of troublesome room acoustics. Permit more volume. Allow closer placement of microphone and speakers. For all difficult PA installations; will improve PA results in low-ceiling rooms, rooms with tile or brick walls, etc.

"UNIPLEX" CRYSTAL

Model 730A. The lowest-priced true cardioid Uni-Directional microphone available. Gives excellent high quality reproduction, practically flat from 30 to 10,000 CPS. Output level is —63 db. at front; but at rear is down additional 15 db. Tilting head. Widely used in all difficult PA installations; in churches, low-ceiling rooms, night clubs, rooms with tile walls, etc. Wide-angle response from the front, but dead at the rear; makes microphone placement easy because feedback is reduced. Satin chrome finish. Head 3½ dia., 3½ deep. 25-ft. dual-shielded cable and connector. Wt., 4 lbs. List, \$35.50.

"UNIDYNE" DYNAMIC

Model 55C. Most effective solution to sound pickup problems in public address, broadcasting and recording. Smooth wide-angle response from the front, yet is dead at the rear. Covers 40 to 10,000 CPS. Output, -55 db. For indoor and outdoor use. Satin chrome finish. Head tilts through 90° angle. ½"-27 thread. Head size, 4½" high, 3½" wide, 3½" deep. High impedance model. With 25-ft. shielded cable, Includes internal transformer. Wt., 4½ lbs. List, \$49.50. \$29.11 Model 55A. As above, but for 35 to

Model 55A. As above, but for 35 to 50 ohm circuits. \$27.64

MODEL 555 "BROADCAST" UNIDYNE

Similar to the Unidyne above in appearance. Model 555A output into 50 ohms, —62.8 db. Model 555C output to load of 100,000 ohms or more, —55.5 db. Built-in transverse vibration isolation unit. Satin chrome tilting head. ½-27 thread. With 18" stub cable. Shpg. wt., 4½ lbs. 99-358. Model 555A for 35-50 ohm circuits. 99-359. Model 555C for high impedance circuits. EACH. \$30.81

ECONOMY CRYSTAL MIKES

Dependable crystal mikes. Ideal for use with Home Recorders, Window Demon-stration Sound Systems, Paging Sys-tems, Amateur Radio Transmitters, etc.

99-360. Shure Model 717A Hand-mike, Fig. A. Tenite plastic case, 2½. diam. x 6'. Smooth response. Output. -49.7 db. With 7ft. cord. Wt., 1 b. 55.85

99-361. Shure Model 707A. Fig. B. Iridescent gray diecast case, polished trim. Smooth response. Output, -49.7 db. Standard % 27 thread in handle. Diam., 21/6, 5" overall. With 7 foot cord. Wt., 2 lbs.

99-362, 707A with 25 ft. cord.\$6,76





SHURE CRYSTAL MICROPHONES

SHURE CRYSTAL MICROPHONES

Popular, high-quality crystal microphones at moderate cost. Have excellent response. Suitable for all general types of Public Address, Recording, and Amateur Radio Station Work.

Model 7A. (Fig. A) A new economy microphone having Shure quality. Smooth wide-range response from 30 to 10,000 CPS. Output, —53 db. This mike is ideal for low-price PA installations, paging and call-systems, etc. In a satin-chrome case, %-27 thread. Complete with 7 ft. cable Shpg. wt., 3 lbs.

99-350. NET.

99-350. NET.

99-351. As above, but with 25 ft. cable. NET.

\$10.58

Model 705A, "Recket" Mike. (Fig. B) Famous for its smooth wide-range, from 30 to 10,000 CPS. Tilting head easily aimed at source of sound. Output, —53 db. 25 ft. shielded cable with connector. Rich satin-chrome finish. %-27 thread. 3 lbs.

99-352. List, \$25.00. NET.

Model 70H, "Super-Level." (Fig. C) A superior microphone of the pressure-actuated type. Response 30-10,000 CPS. High dutput of —47 db. makes it ideal for all low-gain speech equipment for crisp reproduction. Chrome-finished case; with built-in cable connector. %-27 thread. With 7 ft. shielded cable. 2 lbs.

\$13.23

99-353. List, \$22.50. NET.



Fig. A. Electro-Voice V-2. Response is essentially flat from 35-11,000 CPS: output, —64 db. Housing and case design eliminates cavity resonance. Cradle mounting; ½°-27 thread. With 20-foot cable and on-off switch. Model V2 is a high quality, bi-directional microphone; excellent for use where wide smooth response, with low feedback is required. Shpg. wt., 4 lbs.

-330. High Impedance. -331. 50 Ohms, NET EACH.

\$22.05

Fig. B. Electro-Voice V-1. Combines high-quality performance and extremely compact size. Ideal for use with portable PA equipment to satisfy varying installation requirements. Cradle type suspension with built-in on-off switch. Response from 40 to 10,000 CPS. Output level, —65 db. 34-27 thread. With 20-foot cable and cable connector. Light gunmetal finish. Has built-in shock-absorber; reduces vibration effect. Shpg. wt., 4 lbs.

99-332. High Impedance. 99-333. 50 Ohms. NET EACH.



DYNAMIC MICROPHONES







KNIGHT-ELECTRO-VOICE 631

An unusually high-quality dynamic microphone built to ALLIED's specifications by Electro-Voice. Designed to give excellent performance with Knight Sound Systems, the Model 631 is also ideally suited for original or replacement equipment use in any type of Sound System installation. Head is housed in case guaranteed for life against flaws or defects. Head has fixed tilt of 22° for proper use by speakers or vocalists; magnet, 25% nickel. Diaphragm is made of high-tensile heat treated duralumin alloy that will not "crush" or damage, no matter how intense the sound pressure applied. Fitted with special acoustic baffle for use where directional pickup is desired; improves high-frequency response for crisp reproduction. Frequency response is 40 to 10,000 CPS; output level is —55 db. Light gunmetal finish. High impedance. With 25-foot shielded, rubber covered cable and connector. Has standard %-27 thread. Shpg. wt., 4 lbs.

ELECTRO-VOICE DYNAMIC MICROPHONES

MODEL 630

Response, 30 to 9,000 CPS, with a 5 db rise on upper frequencies. High impedance, Output. —55 db. Tilting head. Built-in on-off switch. Gunmetal finish. ½°-27 thread. With 20-foot cable. Shpg. wt. 4 lbs. \$16.17 99-336. As above, but in chrome......\$17.64

chrome. \$17.64
99-337. Model 630LL.
Same as 99-335. but can be used with up to 500-foot cable.
Connects to grid; no input transformer required. With 25-foot cable.

\$16.17 ot cable. \$16.17

MODEL 640

For finest performance. Response. 30-12,000 CPS; output. —52 db. High impedance. Has steel tilting cradle. Gun-metal finish. 5%-27 thread. With 20-foot cable and connector. Show wt and connector. Shpg. wt. 99-338. NET\$17.64

99-339. As above, but in chrome...\$19.11 99-340. Model 640 LL. Same as 99-338, but for use with up to 500-foot cable. Connects to grid. With 25-foot cable. NET...\$17.64

NEW CARDAK

NEW CARDAK

A dynamic mike designed to reduce feedback wherever used. Enables selection of correct directional response for every installation. Response variable from unidirectional, which eliminates sound from rear, to bi-directional, which eliminates sidewall reflected sound. Response flat from 30 to 10,000 CPS; output, —52 db. Tilt-type mount; 5/2-27 thread. On-off switch. Chrome finish, With 20-foot cable. Shpg. wt., 4 lbs. 99-341. High Impedance. 99-342. 50 Ohms.

NET S32.34

EACH.....\$32.34



ASTATIC DN

ASTATIC DN

A semi-directional, all-purpose dynamic microphone. Has "unitary" moving coil together with quality Alnico magnets; audio response is substantially flat from 50-7,000 CPS. Output, -55 db. Tilting head, permits semi- or non-directional positioning for best pickup. Ideal for PA use, recording, call systems, etc. Two-tone opalescent grey and chrome finish. With stand-type plug and connector, spring cable protector, and 25-foot shielded cable. Has ½-27 thread. Moving system is highly damped to prevent peaks. Shpg. wt., 2½ lbs.

99-304. High Impedance.\$13.23

99-305. 50 Ohms. NET ... \$11.76

DYNAMIC MIKES



American D3-1
An all-purpose dynamic typemicrophone. Suitable for all installations requiring high quality reproduction. Response, 40,8500 CPS. Output,—52 db. Semi-directional; with tilting bracket; ½-27 thread. Chrome finish. With 25 feet of shielded cable and locking type connector. Wt., 4 lbs.

AMERICAN D5-T

99-450. High Impedance. \$21.02 99-451. 50 Ohms. NET......\$17.79



AMPERITE PRESSURE-GRADIENT DYNAMIC

Uni-directional mike; reduces feedback. —55 db. Response, 40-10,000 CPS. 25-ft. cable and switch. Chrome finish. Wt., 3 lbs. 99-402. PGH. High NET EACH ... \$18.82

As above, but flat from 70 to 8,000 CPS, 12-ft. cable. 99-405. PGAL 200 Ohm. 99-404. PGAH. High Imp. NET EACH....\$14.70

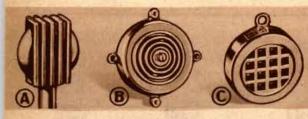


RCA AEROCRYSTAL

New lightweight, compact crystal microphone assuring excellent reproduction of voice and music. Wide range audio response, essentially flat from 30 to 10,000 CPS; output, —35 db. Moisture-proofed. Satin chrome finish. 1/8" pipe thread. 3/4"-27 adapter. 12' cable. Size: 25/8" x 3" x 33/8". Shipping weight, 21/4 lbs.

99-430. Model MI-6205. General Purpose Mike. \$8.70

99-431. Model MI-6202. As above but has speech range of 30 to 5,000 CPS. Brown case with chrome front grill. With 12-foot cable. Wt., 23/4 lbs. NET.\$8.10



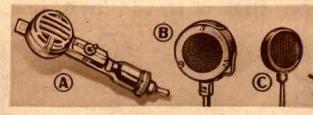
CARBON MICROPHONES

ELECTRO-VOICE

Fig. A. Double-button carbon mike in streamlined case. Impedance, 200 ohms per button. Excellent frequency response of 40 to 8,000 CPS. Unusually flat. Output. —42 db. Live rubber cushioning. Efficient floating type metal diaphragm insures long life. Gunmetal finish. ½".27 thread. With 6-foot cable. Shpg. wt., 2 lbs. \$4.70

UNIVERSAL LAPEL

Fig. C. Very high sensitivity, light weight, excellent voice response, and general com-pactness of design make this a perfect "watch model" mike. Suitable for use in intermike. Suitable for use in interoffice systems, detectaphones,
PA systems, small transmitters, experimental work, etc.
Single button type. Impedance, 200 ohms. Equipped
with new low hise carbon button and pure gold-spot-center
diaphragm. Enclosed in durable black bakelite case.
Only 1½ diameter, ½ thick.
Weighs 1½ oz. Output, —38
db. Has screw terminals at
rear for cable connection. No
larger than an average size
watch. A really remarkable
value in a surprisingly efficient lapel mike. Shipping
weight, ½ lb.
99-470. NET. ... \$1.76 99-470. NET \$1.76



SPECIAL PURPOSE MICROPHONES

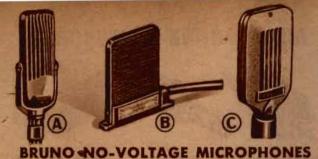
Fig. A. Universal Carbon Handi-Mike. Single button microphone, 200 ohms impedance. Output. —38 db. Close-talking type. Attractive balanced-grip, polished chrome body with on-off switch. 6-foot cable. Wt., 1½ lbs. \$5.00

Fig. B. Astatic Lapel Crystal Mike. For speakers, lecturers, etc. Light in weight and inconspicuous; has spring-clip to grip lapel. Response, 30 to 10,000 CPS; output, —62 db. Statuary bronze finish. 1½" dia., ¾" thick; net wt., 6 oz. With 25-foot cable. Shpg. wt., flb. \$14.70

Fig. C. Astatic Model 218. A concealed-placement crystal mike widely used in dictograph and detective work. 21/6" dia. x 7/6" deep; weighs only 7 oz. High impedance. Output, —46 db. Excellent response in speech frequencies. Finished in telephone black. 8-foot cable and spring clip. Wt., 11/4 lbs. \$13.23

Fig. D. Astatic Model VP Vibration Type. Inertia type pickup for production testing of moving and reciprocating machinery, motors, etc. Voltage output directly proportional to amplitude of motion. High-impedance. Response most efficient on frequencies up to 2,000 CPS. Output may be observed visually or audibly. Chrome-finished case, 2" dia., 11/6" deep; with 6" extension rod and 8-foot cable. Shpg. wt., 11/4 lbs.

\$14.70



New no-voltage microphones. The only high impedance mikes that can be used with up to 1000 ft. of cable without appreciable loss of high frequencies. All are Velocity type of very latest design.

Model WS. Fig. A. Covers large areas. Directional fins act as funnel for incoming sound waves. Ideal for theater work where performer is constantly changing position. Output, —45 db.; 80 to 12,000 CPS; size, 7° x 3½° x 2°. Silver crystalline finish. Less cable. ½°-27 threads. Shpg. wt., 4 lbs. 99-500. NET.

Model SS. Fig. B. Extremely compact. Only ½" thick, 2½ high, 2½" wide. Mount on sounding boards of musical instruments, conceal for detective work, use on desks for paging, wear on lapel for hearing aids and portable uses. Output, —55 db.; 80 to 8,000 CPS; weighs 4 oz. Gunmetal finish. 3 ft. cable and plug. \$0.73

Model HS. Fig. C. Hand or desk type. Permits close-talking with minimum pickup of extraneous noise. Output, —55 db.; 80 to 8,000 CPS. Silver crystalline finish. Size: 4 x 2 x 3/2. Rubber coupling fits any stand. With 10 ft. cable. Shpg. wt. 1 lb. \$5.17 99-502. NET.

41-910. 25-ft. cable with connector for above mikes. NET \$1.62



AMPERITE KONTAK MICROPHONES

For all string instruments such as guitar, violin, piano, or for wind instruments. Easily installed without tools. Any number up to five can be wired in parallel for complete manual control of orchestration. Output, —40 db.

DELUXE MODELS

Fig. C. Type KTH. Faithfully reproduces music over the entire usable range from 40 to 9,000 CPS. Used by many famous bands. Increases timbre, makes new effects possible. High-impedance. Low output, for high-gain amplifiers. 25-ft. cable. A professional unit. Wt., 2 lbs. 99-409.

\$12.94

STANDARD MODELS

Type KKH. Fig. B. Like 99-406
but with volume control. High hand volume control. High impedance 25-ft. cable.

99-408. NET.

\$10.58
99-410. NET.

\$16.46
41-900. Fig. A. Foot volume control for all models. 2 lbs. NET \$7.06
41-901. Kontak Clamp. Clamps Mike to String Inst. 4 oz. NET. 59c
41-902. Kontak Strap. For flat-top guitars. Wt., 4 oz. NET... 59c

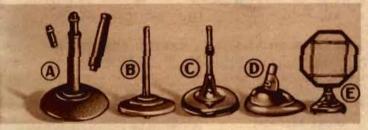
Fig. C. Frequency response 60 to 6,000 CPS. High impedance. SKH for use with high-gain amplifiers. KR output sufficient for direct use with most radio sets (after 1935) or with low-gain amplifiers. 15-ft. cable. Less volume control. Wt., 2 bs. 99-406. SKH. Low-output 99-407. KR. Hi-output \$7.06



ECONOMY MUSICAL INSTRUMENT MIKES

Fig. A. Can be used on any musical instrument. Easily mounted on body of instrument. Reproduces vibrations as instrument is played. Gives mellow, rounded tone. Will work with all amplifiers and most modern radio sets. Response, 80-5,000 CPS; output, -28 db. High impedance. With volume control and 15 foot cable. Size, 3" x 1" x 33/4". Shpg. wt., 1 lb. 99-520. NET. \$7.06

Fig. B. As above, but without built-in volume control. Quickly installed. Size, 115/6" x 1" x 33/4". Shpg. wt., 1 lb. \$5.29 94-025. Bridge Clamp. Shpg. wt., 4 oz. NET.................59c



DESK AND BANQUET MIKE STANDS

Popular mike stands for banquet table and executive's desk. Wide selection permits suiting personal preference. Attractively designed.

3 WAY MIKE STAND
Fig. A. Portable stand; converts
to 8' banquet stand, mike
handle, or desk stand. Has 6'
dia. grey crackle base, 4\fo/2 grey
crackle handle, and 2' chrome
plated stem. \fo/3'-27 thread.
Shpg. wt., 7 lbs.
94-010. NET.....\$2.29

10' DESK STAND
Fig. B. Stem is chrome finish; base is two-tone finish of grey crackle and baked red enamel. 36'-27 thread. 6 lbs. \$1.15

94-006. As above, but all chrome. Center step of base is black enamel. NET...\$1.59



SHOULDER MIKE CARRIER

A real necessity for all PA work where both hands must be free. Especially useful for switch-boards, mobile PA, etc. Durable wire ders. Weighs only 11 oz. Fits any mike; has %*-27 thread on flexible gooseneck. Black wrinkle finish. Fine for Mobile PA; permits the operator to talk while driving or read announcements from script, while on the move. 2 lbs. \$1.55

ADJUSTABLE BANQUET Fig. C. Extends 8½° to 12°. ½°-27 thread. 7½° dia. base. Chrome finish. 8 lbs. 94-007. NET. \$3.35 to 12".

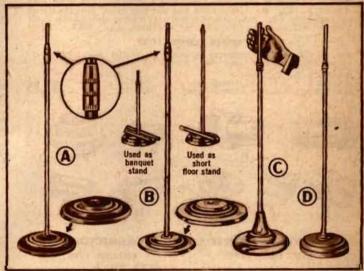
SHURE S36A DESK STAND

Fig. D. Fits Shure connector-type mikes; adapter plate and tubing for other makes. Irides-cent grey. Base: 2½" x 5" x 7". cent grey. Base: 21/2" x 5" x 7". Wt., 11/2 lbs. 94-035. NET..... \$2.06

FOR CARBON MIKE Fig. E. Octagonal ring, 5½° in dia. Black wrinkle finish. With 8 springs. Wt., 4 lbs. 94-008. NET.....\$1.47



Attaches to any floor mike stand, Moves horizontally or vertically; has universal adjustment, no locks to fumble with. Permits quick, definite positioning of mike anywhere within six footsphere. Shpg.wt., 3 lbs. \$4.41



QUALITY MICROPHONE FLOOR STANDS

Unusually attractive, exceptionally durable floor stands in an extensive selection to suit every need. Heavy bases prevent tipping. All models are easily adjustable; positive action adjustable lock clutch prevents extended section from slipping. All chrome parts highly polished. Available in 6 types.

STANDARD ADJUSTABLE

Fig. A. A very popular adjustable floor stand for use with any microphone with standard \(^4\sigma^2\cdot -27\) thread. Ruggedly bullt. Telescoping upper stem section is chrome finished; easily adjusted from 35° to 68°. Lower section is grey enameled. New "casy-grip," positive-action clutch. Heavy 8 lb., 10° diameter, three-step base is finished in grey crackle. Wt., 12 lbs. \$3.75

DELUXE ADJUSTABLE

NEW "TRIGGER-CLUTCH" **HEAVY-DUTY**

Fig. C. Ruggedly-built stand with new "trigger clutch." Slight pressure on trigger telescopes stand until trigger is released; for upward adjustment simply slide stem. Extends from 38" to 69". Heavy polished chrome stem and base. Heavy 18-lb. base, 10½" dia. \%"-27 thread. Shpg. wt. 21 lbs. \\$8.82

STANDARD 3-WAY TAKE DOWN

DE LUXE 3 WAY TAKE DOWN

LIGHTWEIGHT ADJUSTABLE

Fig. D. A lightweight stand ideal for portable recorders, PA systems, etc. Attractive baked enamel stem and base; with locking positive-acting clutch. Telescoping stem extends from 33° to 59°; standard 56°. 27 thread. Has 7 lb. base, 9° in diameter. Wt., 10 lbs. \$2.75

MICROPHONE CONNECTORS



SINGLE CONDUCTOR CONNECTORS CABLE TYPE CONNECTORS

Indestructible, pressure type, Machined-brass, chrome finish. Laminated bakelite insulation. ½"-27 threads. Average shipping wt., 3 oz.

41-955. Fig. A. Male with coupling threads. NET......24c 41-956. Fig. A. Same as 41-955, but spring contact. NET .. 29c 41-957. Fig. A. Same as 41-956, but shorting type. NET 29c 41-958. Fig. C. Female with coupling ring. NET 29c 41-920. Couples two cables both with 41-958 connectors; replaces costly plug-and-cable adapters. Both ends male, 5/2-27. NET . . . 420

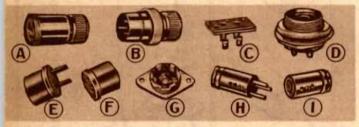
CHASSIS TYPE CONNECTORS

41-965. Fig. B. Male type single conductor chassis and mike connector. Non-shorting type. A built-in unit in many amplifiers and mikes. Takes 41-958 connector. Requires ½" mtg. hole. 3 oz. NET. 18c. 41-966. Fig. B. Same as 41-965 but has tempered heavy coil spring contact for all applications where most positive connection is desired. Requires ½" mtg. hole. Takes 41-958 connector. 3 oz. NET. 24c. 41-967. Fig. B. Like 41-966 but shorting type; grounds circuit automatically when mike plug is removed; prevents open circuit noise. Takes 41-958 connector. Requires ½" mtg. hole. 3 oz. NET..... 26c

TRIPLE CONNECTORS

Fig. F. Connect two mikes or speakers in parallel, Standard ½"-27 thread. Black enamel finish. Keep several on hand. Shpg. wt., 4 oz.

41-921. 3-female type. 41-922. 2-male and 1-female type. 41-923. 1-male and 2-female type.



TWO AND THREE CONTACT CONNECTORS HEAVY DUTY TYPE CHASSIS TYPE

Three contact type. Chrome-plated brass; spring cord pro-tector; %-27 threads. Wt., 3 oz. 41-970. A. Female. 41-971. B. Male. EACH. 590

MINIATURE TYPE

Bakelite plugs with metal shells; 3-contact. 11/6" dia. Wt., 2 oz. 41-973. I. Female. 41-974. H. Male. EACH. 180

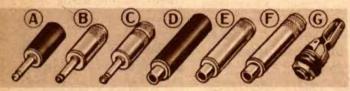
TWO CONTACT TYPE

Wafer type with standard tube prongs and metal shell. 2 oz. 41-980. E. Male. 41-981. F. Female. EACH 100

41-972. Fig. D. Female-type. Takes male plug. Fig. B. Mounts in 11/16" hole in any panel to 1/4" thick. Wt., 3 oz. NET. 290

41-975, Fig. G. Female chassis connector with mtg. plate; takes Fig. H. plug. Mtg. centers, 1¼". Requires ½" hole. Wt.. 186

41-982. Fig. C. Wafer bake-lite type with firmly imbedded contacts. Fits two-contact male connector 41-980 listed at left. 1½" long, ½" wide, with mount-ing holes. Wt., 3 oz.



MALLORY PLUGS AND EXTENSION JACKS

2-WAY PLUGS AND JACKS Bakelite insulation. Insulated tip. Cable type, Wt., 5 oz.

PLUGS

41-641. Fig. A. Type 75.29c Bakelite shell. NET. 41-640. Fig. B. Type 75N. Shielded nickel shell. NET 44c 41-937. Fig. C. Type 75A. Shielded nickel shell and built-in cable clamp. NET. 73c

JACKS

41-938. D. Type 100. 590 fiber shell; for 41-641 plug. 590 41-939. E. Type 100N. Nickel shell; for 41-640 plug. NET 73c 41-940. Fig. F. Type 100A. Nickel shell; cable clamp; for 41-937 plug. NET. \$1.03

3-WAY PLUGS AND JACKS Well-insulated; for 3-way circuit connection. Shpg. wt., 6 oz.

PLUG5
41-941. A. Type 76. Bakelite shell. NET.
41-942. Fig. C. Type 76A.
With shielded nickel shell and
built-in cable clamp. NET.
880

41-943. D. Type 101. With fiber shell; for 41-941 plug 880 NET 41-944. F. Type 101A. Nickel shell; has cable clamp for \$1.32 41-942 plug. NET.....\$1.32

MIDGET CHASSIS JACK
41-985. Fig. G. For 1/4" hole.
Phosphor bronze spring
contacts. Wt., 3 oz. NET... 28C

MICROPHONE ACCESSORIES





MICROPHONE TRANSFORMERS

EXTERNAL INPUT

Couples all low im-pedance microphones (up to 200 ohms) to high impedance amhigh impedance amplifier grid circuit. Response, 60-8000 CPS. Has special balanced winding. Fully shielded. Designed for high-gain work. Supplied complete with connecting leads Wt. 3 lbs. 41-915. S3.53

CABLE TYPE

Thordarson T14A76 transformer; offers a convenient method of connecting 200-250 ohm mikes to high impedance amplifiers. Connects in series with mike cable and amplifier input. Response, ±1.5 db. from 30 to 15,000 CPS. Overall dia. only 1°. Wt., 1 lb. 41-916. \$8.53

MIKE PRE-AMP.

Permits use of any high-impedance mike high-impedance mike with low-gain amplifiers or converts any radio into a PA system. U sees 1—35Z5GT and 1—12J7GT. Brown metal case, 4½" x 3½"x 7". With tubes For 110 V., 60 cycles. Shpg. wt., 4 lbs. 85-500. \$5.75

41-993. Mikeplug for above. 3 oz. 5c







MICROPHONE SWITCHES

Compact on-off switch; fits between any mike and stand h a v i n g ¾ * - 2 7 threads. Has slide-type switch. With cable-clamp. Knockout hole in back for cable, Chrome-plated case. Easily installed. A necessity for all types of PA work. Shpg. wt., I lb.
41-925. \$1.18

Type A83A. Plugin type switch for Shure connectormounting mikes listed on pp. 91-93. Easy to install. No wiring. Switched Off and On by bakelite knob. Pits all mike stands with ½"-27 thread. Ideal for PA or Communication system use. 2 lbs. 41-930 05 system use. 41-930 NET..... \$2.35

Compact, fully shielded, unbreak-able switch for in-stallation between stallation between microphone and mike connector. ½ *-27 thread. Push-to-Talk, release for stand-by; or slide switch forward for permanent connection. Polished chrome finish. 1 lb. 41-950.









MIKE STAND SWIVELS

Fig. A. Permits 90° tilt of mike. Chrome-finished. Shpg. wt., 8 oz. 41-926. Male has 1/4" pig female has 5/4"-27 to fit stand 41-927. %"-27 to %"-27. 530

SHOCK ABSORBER

41-951. Fig. B. Live rubber in chrome shell. %"-27 threads. 11%" x ¼" dia. 6 oz.

CARBON GRANULES

MICROPHONE SPRINGS

Fig. D. High quality tempered steel springs for mounting micro-phone in ring holder. Maximum flexibility without stretch. Shpg. 41-991. Set of 8. NET .. 170

MICROPHONE COVER



A universal type protective cover for all types of microphones. Made of finest oiled silk treated to withstand all kinds of weather conditions. Microphone may be used while cover is on. Complete mike protection against moisture, dust, etc. With drawstring. Size 4' x 6''. Shpg. wt., 6 oz.

41-995. NET. 296



MICROPHONE CABLES



MICROPHONE CABLE HIGH-IMPEDANCE

For crystal, dynamic and velocity mikes. Shielded, rubber-covered. Shpg. wt., 2 oz. per ft.

Single Conductor. 48-501. 25 ft. coll...\$1.15 48-502. 100 feet....\$4.25

Double Conductor 48-541, 25 ft. coll. . \$1.55 48-542, 100 feet. . . \$5.95

LENZ SUPER-FLEXIBLE

Tinsel-center conductor; unbreakable. Shieldef; rubber-covered. 49-161. 25 ft. coil...\$1.40 49-162. 100 feet...\$4.85

MIKE EXTENSIONS

A much needed accessory that every PA man will welcome, Adds additional length to any mike cable instantly to handle any installation. Consists of 25 foot length of shielded and rubber-covered high-impedance mike cable (48-501 at left) with the male and female connectors attached (41-955, 41-958 at upper left). Connectors have 3/6"-27 threads. Shpg. wt., 2 lbs. \$1.90

41-912. As above but 2-contact male and female connectors (41-980 and 41-981) at left above.

FINER BAFFLES FOR BETTER TONE QUALITY



DELUXE WOOD BAFFLES

Attractive wall baffles, finished in handsome hardwood walnut-veneer. Excellent for all indoor installations, for paging systems, school-rooms, stores, offices, auditoriums, etc. Have attractive, harmonizing gold grille cloth; grille opening is protected by trim reinforcing bars. Measures 16½° high, 14½° wide, and 6½° deep at base; 8½° deep at top. Built for 12° speakers. Acoustically correct and free from resonant rattles. Shpg. wt., 10 lbs. 93-500. For 12° speakers. NET. 34.25 93-501. For 8" speakers. 12" x 10½" x 5". Shpg. wt., 6 lbs. NET \$2.49

BAFFLE MOUNTING KIT

For use with all wall baffles. Permits quick, easy installations. Consists of two screw eyes and two special wall hooks. Wt., ½ lb. 45-845. NET......12c

DELUXE BAFFLES. Well designed baffles finished in attractive tan fabrikoid covering. Inclined front panel projects sound for correct coverage. Sturdily constructed of selected plywood to prevent rattles. Have very attractive black and gold grille cloth, With speaker mounting bolts. Average wt., 8 lbs.

93-510. For 12 spkrs. 17" H. x 14" W. x9" D. NET	S2.95
93-511. For 10" 14" H. x 12" W. x 7" D. NET.	spkrs.
93-512. For 8" 11" H. x 934" W. x 6" D. NET	spkrs.

STANDARD BAFFLES. Inclined face provides correct coverage over greatest area. Ruggedly built of strong plywood covered with durable dark brown leatherette fabrikoid. Rigid construction. With spkr. mtg. bolts. Wt., 6 lbs. 93-520. For 12" spkrs. 17" high x 13 ½" wide \$1.98
93-521. For 10" spkrs.

14'x12"x7". \$1.80
93-522. For 8" spkrs. 11" high x 93/4" wide x 6" \$1.55 deep. NET
93-523. For 6' spkrs. 9' high x 8' wide x \$1.35

ILLUMINATED ORGANETTE BAFFLE

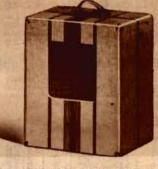
ORGANETTE BAFFLE

A sensational new illuminated bafile ideal for show-business—for theaters, night clubs, taverns, restaurants, etc. Wired to accommodate two standard 110 volt lamps which reflect light through handsome colored translucent plastic panels recessed in walls of cabinet. Grille bars of organ pipe design finished in brilliant gold lacquer. Rich acousticloth grille. Cabinet size: 17 wide, 15° high, 8° deep; finished in natural grain walnut. Accommodates all standard 12° cone speakers. With line cord and plug; less bulbs, Shpg. wt., 10 lbs.

93-530. NET....\$8.82

PORTABLE CARRYING CASES FOR EVERY NEED





DUAL SPEAKER CASE

DUAL SPEAKER CASE

Permits carrying two 12" speakers.
Case divides into separate units, serving as baffles when speakers are in use. Has airplane cloth covering and carrying handle. Speaker grilles backed with metal screen. Heavy plywood construction; snap-type trunk clasps; metal feet on bottom of each section. Extremely compact and portable. With speaker mounting bolts and cable wind-up brackets. Size inside closed, 20" x 12½" x 9½". Sipg. wt., 12 lbs.

93-600. NET...... \$6.25

SINGLE SPEAKER CASES

Speaker opening with grille cloth is backed with metal screen. Removable back has snap-type trunk clasps. Built of heavy plywood, Rubber feet. With spkr. mtg. bolts and cable bracket. Wt., 9 lbs.

93-601. For 12" speaker. 12¼" x 12¼" x 9½". \$4.10

93-602. For 8" speaker. 123/4" x 123/4" x 91/2". Will also carry Knight 7 watt amplifier or any similar sized unit.

SPEAKER-AMP. CASE

For housing complete PA system. Will accommodate Knight 14 to 30 watt Deluxe amplifiers and one or two 12-inch speakers. May also be used with other amplifiers having similar dimensions. Heavy plywood construction; both parts serve as speaker baffles. Speaker openings have cloth grille. Attractive airplane-luggage finish. With spkr. mtg. bolts and cable brackets. Carrying handle. Inside size: 21½" x 18½" x 14". Wt., 21 lbs. 93-603.

AMPLIFIER CASE

Cleverly designed case built to house any 1942 Knight Deluat amplifier. (Also suitable for other amplifiers of similar dimensions.) Has special "false bottom" compartment for carrying microphone, cable, speaker extension cords, etc. Heavy plywood with reinforced corners; covered in attractive airplane-luggage cloth. Inside measurements: 215% Lx 161% Hx 161% W; lid 14" H. An unusually practical case. Shpg. wt., 15 lbs. 93-604.



PHONOGRAPH CASES

Attractively designed cases for housing phonographs. Of sturdy plywood to withstand long, hard usage. 93-605 has storage compartment, with pull-out strap, to accommodate about 15 records. Blank motor board may easily be cut off tany motor. Handsome airplanelugage finish with tan tweed effect. Inside size: 16% x 13" x 91/4". Shipping weight, 14 lbs.

93-606. As above, but accommodates

93-606. As above, but accommodates two phono motors. Size: 361/2" x 123/2" x 9". Less record compartment. Shpg. wt., 15 lbs.



PORTABLE BAFFLE STANDS

Take the worry out of your Portable PA installations! Use these ingenious stands for quick speaker set-up. Locking-type swivel permits adjustment for proper coverage. Telescoping steel sections extend from 46° to 78°. Collapsible tripod base easily set to support light or heavy baffles, Black enamel finish. Less baffle, Average shpg. wt., 15 lbs, 93-300. For Kainer Projectors on page 97 and other baffles with ½° pipe-thread mounting hole.

93-301. For Economy Projectors on page 97.. \$6.85 93-302. For speaker cases listed above. NET .. \$6.85



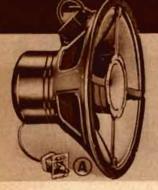
CAR TOP PLATFORM

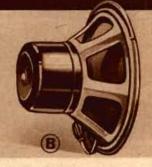
BAFFLE MOUNT

For use with Economy Projectors listed on p. 97. Saddle-top fastens to baffle; tilts to any angle. 12" high with cast mounting base 7" in dia. Black wrinkle finish. Heavy construc-tion. Wt., 8 lbs. 52.15

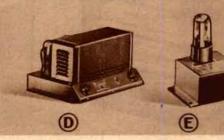


FAMOUS Jensen SPEAKERS









TYPE "J" COAXIAL HI-FI SPEAKERS—FIG. A

A new achievement in speaker design offering true high-fidelity reproduction. Each reproducer consists actually of two PM speakers with built-in frequency-dividing network. Especially recommended for FM receivers, high-quality phono equipment, full-range PA systems, and other uses where the absolute in high-fidelity is desired. For full frequency response, use with bass reflex cabinets below.

TYPE JHP-52-15 INCH

The 15° PM "Woofer" handles all frequencies from 50-5,000 CPS. 5½° PM "Tweeter" handles frequencies from 4,000-12,000 CPS. Range control switch lowers high-frequency cut-off in four steps. Handles 12-14 watts. Impedance, 500 ohms. Wt., 23lbs. \$29.11

TYPE JCP-40-12 INCH

Replaces any type of 12-inch speaker. Frequency response, 50 to 10,000 CPS. With cross-over network. Handles 8 to 10 watts. Impedance, 6 ohms. Ideal as replacement and modernizing unit where higher fidelity response is desired at a moderate price. Shpg. wt., 16 lbs. 82-052. NET... 17.35

TYPE JHP-50-15 INCH

Coaxial PM speaker with cross-over network. Range, 50-12,000 CPS. Handles 12-14 watts. Imp., 8 ohms, 20 lbs. 82-051. NET... \$22.64

COAXIAL ACCESSORIES

82-055. Q8P. H. F. PM Speaker as used in 15' coaxials. Range, 4000-15,000 CPS. 16 ohms imp. 5½' dia., 3½' deep. 57.64

82-057. H. F. Level Centrel. Connects to JHP-50 and JCP-40. Adjusts level of H. F. speaker. Wt., 1 lb. NET........\$2.35

82-058. A40-1 Network. Dividing network; cross over, 4,000 CPS. With H. F. range control switch. Wt., 10 lbs. NET. \$15.29

IMPORTANT INFORMATION ABOUT PM SPEAKERS As a result of the allocation of materials during the National Emergency, it may not be possible to maintain deliveries of PM type speakers. In the event the PM Speaker you order cannot be furnished, we will (A) ship an equivalent AC field coil speaker with field supply, COD for difference, or (B) hold your order until the PM is available. Please specify preference.

FIELD COIL DYNAMICS—Figs. B & C

Fully dustproofed. Excellent response. Less transformers (see below).

Stock	193101	Jan Jan		Field	Coil	Wt.	M Nassaulin
No. Mod	Model	Size	Watts	Res.	Watts	Lbs.	NET
+82-080	H5-S	5"	3	1800	2	2	\$1.76
*182-081	E6-RS	6"	5	2500	4	3	2.70
*82-082	E6-RS	6"	5	1800	4	3	2.70
82-083	C8-RS	8"	8	2500	8	0	6.03
182-084	C8-RS	8"	8	1250	8	6	6.03
82-085	C10-RS	10"	9	2500	8	7	6.32
182-086	C10-RS	10"	9	1250	8	7	6.32
82-000	B12-X	12"	121/4	2500	10	11	11.02
182-001	B12-X	12"	121/2	1250	10	-11	11.02
82-002	A-12	12"	15	2500	14	18	14.70
182-003	A-12	12"	15	5400	14	18	14.70
182-004	B15-X	15"	1.15	1250	10	16	12.35
182-005	A-15	15"	17	5400	14	21	15.88

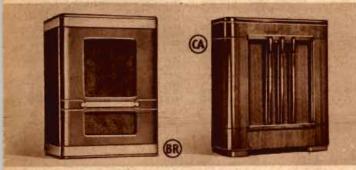
*4 ohm voice coils; others, 8 ohms. 1800 ohm fields tapped at 300 ohms. †Correct field resistance for FS-10 Field Supply listed below. †Correct field resistance for FS-1 and FS-4 Field Supplies below.

EXTENDED RANGE SPEAKERS

High fidelity speakers with a range to 10,000 CPS. Especially recommended for home and studiouse, in FM receivers, wide-range phonographs, monitoring units, etc. Also suited for all PA installations where extended frequency range is desired. For best results, use with type BR and CA bass reflex cabinets below.

Stock		1	Voice Coil		Field		Wt.	
No. Model	Size	Ohms	Watts	Res.	Watts		NET	
82-070		8"	6	5	PM	Type	4	\$6.76
*82-071	G8-RT	8"	6	5	1250	8	5	5.88
*82-072	G10-RT	10"	6	6	1250	8	6	6.17
82-073	PM12-CT	12"	6	7	PM	Type	7	9.41
*82-074		12"	6	7	1250	8	7	6.61

*Use FS-10 Field Supply Unit described at right.



BASS REFLEX ENCLOSURES

MODEL BR

The Bass-Reflex speaker enclosure has established new standards of speaker performance. Type BR units are ideally suited for use in the home, the studio, or for general PA applications. Specifically designed for use with Jensen loud-speakers, but can also be used with other speakers if desired. Will greatly improve middle and high frequency response and add octaves in the low frequency range. Beautifully finished in rich brown lacquer. Shipped in knocked-down form and can be easily assembled. All necessary hardware included.

MODEL CA

Model CA bass-reflex cabinets are the ultimate in speaker enclosure performance and appearance. Handsomely designed and finished, these cabinets are constructed throughout of genuine striped walnut. Provide full bass-reflex performance; improve middle, high and low frequency response of speaker. Excellent for use with the Jensen Coaxial Hi-Fi speakers above for high fidelity phono, radio or PA installations. Can be used also with any other speaker for better tonal performance. Shipped completely assembled.

Stock No.	Туре	Speaker Size	Enclosure Size	Lbs.	NET
95-001	B R81	8"	171/4"x233/6"x11"	35	\$11.11
95-002	BR101	10"	211/2"x28" x121/4"	38	13.82
95-000	BR121	12*	231/4"x301/4"x125/4"	47	15.58
95-003	BR151	15"	25" x33 1/4"x135/8"	60	18.23
95-004	BR181	18"	273/4"x36" x153/4"	80	26.93
95-005	CA-12	12*	271/4"x311/5"x12"	40	27.10
95-006	CA-15	15*	273/4"x311/4"x14"	44	31.90

PERMANENT MAGNET DYNAMICS—Figs. B, C

PM field assemblies of highly magnetized alloy; require no field voltage.

Stock No.	Model	Size	VC	Watts	Wt.Lbs.	NET
82-020	PM5FS	5*	4	2.5	1	\$ 1.88
82-021	PM6ES	6"	4	3.5	2	2.35
82-022	PM8DS	8"	4	5.	3	3.38
82-023	PM8C	8"	6	8.	4	5.88
82-024	PM10GS	10"	6	8.	5	4.70
82-025	PM12C	12"	6	10.	7	8.23
82-026	PM12GS	12"	6	9.	6	5.88
82-027	PM12B	12"	8	14.	13	16.76

AC OPERATED FIELD SUPPLIES

MODEL FS-10. Fig. E. Supplies 10 watts of field power to 1250 ohm field. With 1—11726GT tube. 3½' L. x 2½' W. x 4' H. Shpg. wt., 2½ lbs. \$2.50

MODEL FS-11. Will excite two 10 watt 1250 ohm fields in series. Also delivers 28 watts at 240 volts DC. With 1—80 tube. 6° L. x 4½° W. x 5½° H. Shipping weight, 6 lbs. 82-121. NET. ... \$6.17

MODEL FS-1. Delivers 45 watts DC at 300 volts. With fuse, terminal strips, and 1—523 tube. 10½" L. x 4½" W. x 7½" H. Shpg. wt., 18 lbs. \$21.27

MODEL FS-4. Fig. D. Delivers 120 watts output. DC output, 300 volts at 400 ma. at full load. 14½° L. x 10° W. x 7° H. With plugs, receptacles, and 2—523 tubes. Wt., 26 lbs. \$38,21



ADJUSTABLE MATCHING TRANSFORMERS

Permit accurate matching of one or more speakers to any output circuit or line. Have terminals with flexible lead for instant selection of proper impedance. Tube types tapped at 4500, 7000, 10,000 and 14,000 ohms, all CT. Line types are tapped at 500, 1000, 1500 and 2000 ohms. For single or multiple speaker use.

THE PERSON NAMED IN					The second second					
Stook No.	Type	Mtg.ctrs.	Watts	VC Ohms	Lbs.	NET				
For Jens	sen Spe	akers PMS	FS, PM	SES, PM60	, PMSE	S, H55				
64-800	Tube	21/2"	2.5-3.5	4	1	\$0.73				
South water	For	Jensen Sp	eakers E	GRS, PMS	DS					
64-801	Tube	23/8"	7	4	2	\$1.03				
64-802	Line	23/8"	7	4	2	1.17				
For Jensen Speakers PM8C, PM10C, PM12C, PM12G5										
64-803	Tube	211/16"	6-10	6, 1	2	1.65				
64-804	Line	211/16"	6-10	6	2	1.65				
For	Jensen	Speakers	C8R5, 0	C10RS, PA	H8, FA	B8				
64-805	Tube	213/6"	8	8	3	1.65				
64-806	Line	213/16"	8	8	3	1.65				
For Jensen	peaker	PM8CT,P	MIZCT.	GSRT,G10	RT,G1	RT, JCP40				
64-807	Tube	31/16"	7	6	2 .	2.20				
64-808	Line	31/16"	7	6	2	2.20				
Lander with	For J	ensen Spe	akers Pf	W10G5, G1	ORS					
64-809	Tube	213/2"	8	6	2	1.03				
64-810	Line	213/12"	8	6	2	1,17				
For Jensen	Speake				50, B15	X, PM12H				
1000000	250/2	The state of the s	A12PM,	PM15B						
64-811	Tube	31/4"	10-15	8	3	2.20				
64-812	Line	31/4"	10-15	8	3	2.20				
The second		And in case of the last of the	peakers	A15PM, A	15					
64-813	Tube	215/16"	17	8	4	3.53				
64-814	Line	215/6"	17	8	4	3.53				

HOW TO SELECT THE PROPER BAFFLE





FLAT BAFFLES Spread sound over the wid-est possible area. This group includes: flat boards, cases, wall type and reflex en-closures, and cabinets. See pages 95, 96, and 99.



PROJECTORS Direct the sound in a comparatively wide beam to a definite area. Tone is crisp. For athletic fields, paging, assembly halls, sound truck installations, etc.



TRUMPETS

Direct sound in narrow beam to the most distant point. For stadiums, race tracks, parks, sound trucks, etc. Gives crisper, clearer, more penetrating tone.

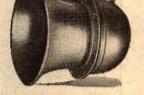


ECONOMY DELUXE BAFFLE FIG. A

Extremely rugged, 2-piece, 12" speaker baffle spun from 20 gauge alloy-metal. Has screened breather for efficient back-pressure release. "Air-Foam" insulated. Overall length, 20" Bell diameter, 17", with 11" flare. Malleable mounting bracket fixture is securely welded to baffle, and threaded for ½" pipe. No rivest to pull loose. Finished in baked grey cnamel. Supplied less bracket, and less speaker, Uses 95-207 crowfoot or 95-208 wall bracket, listed in extreme right hand column. Wt., 8 lbs. \$7.13

UNIVERSITY CHANDELIER FIG. B

The ideal baffle for uniform 360° coverage. Will accommodate any 12° speaker. Rubber-tire rims prevent resonant rattles and vibration. Rubber mounting for speaker. Ideal for use in churches, clubs, dance halls, auditoriums, etc. Completely weather-proofed for permanent outdoor installation. Radial water proof breather. Formed from durable spun alloy metal. Size, 29° high, with 25° dia bell. With suspension loop. Will replace 2 to 4 ordinary projectors. Wt., 25 lbs. \$22.64



ECONOMY PROJECTOR

81-580. Reducer ring for using 8-inch speaker in above baffle.

KAINER ALL-STEEL PROJECTORS

Extra rugged, all-steel projector baffles; for any 12" speaker, with or without matching transformer attached. Spun from 20-gauge steel in only two pieces. Has screened breather for proper back pressure release. "Air-Foam" insulation. Overall length, 20"; bell diameter, 17"; flare length, 11". Mounting bracket fixture is of malleable iron and is welded to baffle; threaded for ½" pipe. Baked grey wrinkle finish. Less bracket. See below. 8 lbs. \$7.91 95-206. Like 95-205, but with suspension eyerings instead of mounting fixture. 8 lbs.....\$7.68 95-207. Adjustable crowfoot bracket....\$1.62

PROJECTORS FOR 6" OR 8" SPEAKERS

Constructed as above, but for smaller speakers. Less bracket. Shpg. wt., average, 5 lbs. \$4.85.95-215: 6' Projector. 10' bell. NET. \$4.85.95-216. 8' Projector. 14' bell. NET. \$7.91 95-208. Fixed-angle wall-mounting bracket (as illustrated with smaller projector). NET65c

TRUMPET BAFFLES AND UNITS

DRIVER UNITS

81-540. Knight 15-watt 8" PM dynamic driver unit. \$6.59 82-100. Jensen PAH-8 15-watt 8" PM driver unit. 8 ohm VC. Shpg. wt., II lbs. NET. \$10.88 64-806. Line transformer for Jensen units. 2 lbs. NET. \$1.65

JENSEN PERI-DYNAMIC

95-030. Popular trumpet with "Peri-Dynamic" construction. Special design gives crispness to voice and music. No back-radiation. Made of heavy sheet steel. Mechanical vibration and feedback reduced to a minimum. Blue-gray lacquer finish. Harloops for overhead mounting. Overall length, 30°. Bell opening dia, 24½." Complete with Jensen PAH 8 driver unit, listed at left. Less stand. Wt., \$34.10
95-031. Same as above except with Jensen FAB-8 unit listed at left. Less stand. Wt., \$34.10

95-032. Adjustable cast-metal crowfoot stand. 51bs. NET \$2.94

KAINER TRUMPET

A rugged spun-steel trumpet for distant sound projection. Takes 3° units at left. Allows gradual expansion of sound-wave front, preventing disturbance from eddy currents. Bell diameter, 24°; llength of horn, 36° Made of heavy-gauge steel. Threaded for scandard 4' pipe. Baked grey enamel. Less bracket. 13 lbs.

95-220. Trump-\$99 31

95-220. Trump-\$22.31 95-221. Trumpet as above, with Knight 15-watt driver unit 81-540 at left. Less bracket. Shpg. wt. .18 lbs. \$27.55

95-222. Adjustable crowfoot bracket. 5 lbs. NET....\$1.94

WEATHERPROOF

wealherproof
Stardy spun-steel trumpet for
outdoor installations. Overall
length, 17¾"; height from
base, 27"; bell opening, 22¾"
diameter. For any 8' speaker. With adjustable mounting bracket, ½" pipe thread.
Grey finish. Weatherproof
construction permits operation in driving rain. Exceptionally rugged, yet surprisingly-light weight. Slpg. wt., 25 bs.

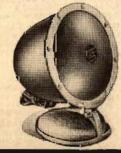
95-230. Trumpet. NET \$18.32

95-231. Trumpet as above, complete with Knight 8' PM driver unit 81-540 at left. Shops. wt., 33 lbs. \$23.56

BAFFLE COVERS

Quality weatherproof covers for protecting projectors or trumpets against rain, snow, dust, etc. Ideal for use indoors or outdoors, Made of durable waterproof cloth. Simply sho over bell opening when projector or trumpet is not in use. Supplied with handy draw string fastener, permitting cover to be fitted around bell. Very easy to install. Shpg. wt., 1 lb.

Stock No.	For	NET
81-800	10-16" bell	\$0.95
81-801	16-18' bell	1.00
81-802	20-241/2" bell	1.50

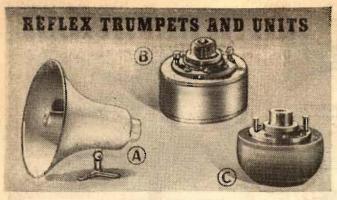


NEW JENSEN "SPEECH MASTERS"

A new PM reproducer designed for most effective speech reproduction. Uses famous Peri-Dynamic principle. Ideal for Intercommunicating and Public Address monitoring uses; for Short Wave listening; and for Amateur, Commercial, Police, and Aviation ase. Speech output, Swatts, Comes in desk and panel mounting types. Double dust proofed. Tilt base on desk types. 36" cord. Attractive hammered grey finish, with satin trim. 64" H., 5%" D., 5" Dia. Less transformer. 6 lbs. \$5.85.82-040. AP-10 Desk Type with 4 ohn voice coil. NET 82-041. AP-10 Desk Type with 45 ohm voice coil. NET. . \$5.85

82-042. AP-11. Same as 32-040 above, except less base and swivel but with eyelets for panel mounting. Requires 41% cutout. Extends 41% from front of panel to back of speaker. With screws and \$4.76 drilling template. Shpg. wt., 41bs. NEV

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.



REFLEX TRUMPETS

Offer all the advantages of "straight" trumpets, but reflex design reduces length to a minimum. Produce more sound for same wattage input and project sound in a narrow beam for most efficient coverage. Rubber rims eliminate resonance. *Indicates acoustic length.

JENSEN TYPE "H" HYPEX TRUMPETS. FIG. A

Steel construction; weatherproof. Baked gray lacquer finish. Physical length: H-20, 163%"; H-24, 201%". Less driver units and mounts.

Stock No.	Type	*Length	Bell	Cutoff	Wt.	NET		
95-020			203/4"	165CPS	181/4	\$15.88		
95-021	H-24	60"	243/4"	140CPS	213/4	19.40		
95-022. EA-6. Adjustable stand for above. Wt., 5 lbs \$2.94								

UTAH REFLEX TRUMPETS. FIG. A

Constructed of heavy-gauge steel, finished in baked-on art-enamel. Fully weatherproof. Physical length: 21D, 17°; 25D, 20°. Supplied with sturdy ratchet-lock mounts. Less driver units.

95-100 95-101			21"	140CPS 115CPS	16	\$14.41
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KAINER REFLEX TRUMPETS. FIG. A

Weatherproof steel trumpets. Grey hammerloid finish. Length: RT-21, 19"; RT-25, 20". With mounting brackets but less driver units.

95-201 RT-25 58" 25" 115CPS 20 21.98	95-200			21"	140CPS 115CPS	16	\$13.58
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DRIVER UNITS FOR ALL REFLEX TRUMPETS

For use with Kainer or Utah trumpets above (For Jensen trumpets, see annular units below). They feature higher conversion efficiency, uni-form frequency response, and low distortion at high power levels.

UNIVERSITY PM DRIVER UNITS. FIG. B

Exclusive rim-centering feature assures permanent alignment of voice coils; adds 20% to efficiency. Units factory guaranteed against breakdown for one year. 15 ohm voice coils.

Stock No.	Туре	Response	Watts	Wt.	NET
81-570	MD-8	80-5000 CPS	12	5	\$12.61
81-571	SAH	70-5000 CPS	25	7	19.40
81-572	PAH	60-5500 CPS	25	10	29.10

JENSEN "ANNULAR" DRIVER UNITS. FIG. B
Employ the exclusive Jensen "annular" principle in which the diaphragm is clamped at periphery and center. For use with Jensen Hypex
trumpets only. U-20 is PM type. UF-20 is 1250 ohm field coil type;
use with field supplies listed at right 16 ohm voice coils.

mar with neid	aupprica II	attigut 10 0	mu voice	Cons.	
82-110 82-111	U-20 UF-20	100-5000 CPS 100-5000 CPS	15	11	\$19.11

UTAH PM DRIVER UNIT. FIG. C

This new PM driver unit in conjunction with the reflex trumpets above offers maximum efficiency, wide frequency coverage and high power handling capacity. It is dustproof and weatherproof. 25-watt rating, 16-char voice coil. Shipping weight 12 lbs.

\$1-075. NET.

\$24.99 \$24.99



98

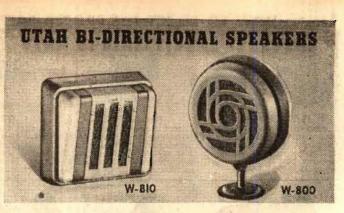
CINAUDAGRAPH SPEAKERS

CINAUDAGRAPH SPEAKERS

Well-know to all users of PA equipment. Can audagraph speakers have an enviable reputation for top performance under all conditions. Every step of assembly is under careful supervision of skilled artisats. All parts are fitted into fixtures of nicrometer accuracy. This painstaking adherence to closest tolerances, coupled with advanced design of cone and voice coil results in speakers with exceptionally high power handling capacity. The voice coils on the 10° and 12° models are wound on a specially treated "ACIM" form. Polyfibroms cones, moisture- and dust-proof construction, assure trouble-free operation. Voice coils, 6-8 ohms. "With built-in 110 V. AC field supply and tube.

Stock No.	Nitra. Type	Size	Norm.	Pea'k	Res. V		Sh. Wt.	NET
81-200	PM 6-7	61/2"	4	10	PM.	PM	21/2	\$ 2.50
81-210	RE6-B	61/2"	4	8	2500	5	3	1.91
81-201	PM8-9	8"	6	1.3	PM	PM	5 .	3.97
81-211	PE8-10A	8"	8	14	1000	9	6	4.12
81-202	PM10-10	10%"	7	14	PM	PM	6	5.00
81-203	PM10-12	101/4"	9	16	PN.	PM	7	5.88
81-212	PE10-12A	1014"	10	16	1000	10	7	5.29
81-204	PM12-18	12	15	23	PM	PM	12	16.17
81-205		1.50	1.5	23	PM	PM	20	17.64
81-213		18"	35	45		*	85	70.56

Matching transformers for above speakers. Output types are universal; line types are tapped at 500, 1000, 1500 okms. Av. wt., 2 Rose For Output NET Line NET For Output NET Line NET 4/4 Spkr 62-350 50,59 62-355 50.59 12 Spkr 62-353 51.62 62-358 1.88 62-356 .88 15 Spkr 62-354 2.06 62-359 2.06 10/4 Spkr 62-352 1.32 62-357 1.32 18 Spkr 62-318 4.41 62-319 4.41



Completely dustproofed, bi-directional PM speakers embodying the latest in speaker design. The back wave as well as the front wave is utilized in order to deliver perfect voice reproduction. These speakers are especially well suited for call and paging systems in schools, factories, institutions, etc. Cone resonance and response have been matched to the grey, molded, non-metallic case to give the ultimate in voice clarity. Low frequency response has been reduced to prevent voice distortion. The sturdy swivel base makes installation easy and permits speaker to be turned in any direction after mounting. Model W-800 has line transformer for connecting 1 to 8 speakers across a 250 or 500 ohm line. Model W-801 has transformer for 9 to 20 speakers. Will handle 8 watts normal, 12 watts peak. Shpg. wt., 6½ lbs.

81-052. Model W-810. Wall reproducer similar to the ones shown above except that the frequency response has been extended to reproduce the musical scale as well as voice. Case is of grey, molded, non-metallic material. Ideal as an additional speaker in the home, for coin-operated phonographs, etc. Handles 8 watts. Voice coil 6-8 ohms. \$7.35 Less output transformer. Shpg. wt., 4 lbs. NET

64-909. Universal line transformer for above. NET.76c

64-908. Universal output transformer for above. NET . . 76c



SPEAKER VOLUME CONTROLS

JENSEN "L" PADS. FIG. A

High Quality "L" Pads for use across speaker voice coils. Controls have an "off" and "on" position with gradual, smooth control of volume. Shafts 1" long. With knob and indicator plate. Handle up to 5 watts. For 6-ohm voice coil. Wt., 1 lb.

33-940. Type \$7276.

Type \$7411. As above but handles 15 watts. For 8 ohm VC. 33-941.

JENSEN LEVEL CONTROL. D

82-057. Type ST-606. A properly designed variable "L" pad for use with any speaker. Ideal for use as a remote volume control in any PA installation. 16 ohms, 15 cratts. With knob and 52 35 dial plate. NET.

UTAH "L" PADS, FIG. B

Heavy-duty pads to control volume in all high-level circuits. Wirewound. 15 watts. Mount in 1/16" hole. 1/4" shaft. Wt., 2 lbs.

Туре	Stock No.	Ohms
LA-8 LA-16	33-900 33-901	8
LA-500 LA-1000	33-902 33-903	500 1000
NET EACH		.\$1.91

ENCLOSED CONTROL. FIG. C

33-920. An enclosed speaker volume control designed for convenience of installation; essentially constant impelance. Controls volume in any speaker voice coil circuit. Rated at 10 watts. Includes indicator plate and knob. 3" round case. Wt., \$2.06



KNIGHT UNIVERSAL AC FIELD SUPPLIES

81-552. FIG. A. Strap mtg. Output, 13 watts (100 ma. at 130 V). Fits any 8" to 12" speaker with bolt on field pot. Strap is 12"x/8"; may be cut or bent to fit any speaker. Chassis is 4/4"x3 4"x2". For 110 volt, 50.60 cycles. With 6-foot cord and plug and 1—35ZSGT \$2.65 tube. Wt., 3 lbs. NET.

S1-551. FIG. B. Chassis type. Supplies 11.5 waits of filtered DC (up to 100 ma, at 115 voits). Has socket and plug for making necessary connections. Size overall, 4 1/2" high, 3 1/2" long, 2" wide. With 6-foot AC cord and plug and 1:—11724GT rectifier tube. For 110 volt. \$3.15 50-60 cycle operation. Shop. wt., 2 lbs. NET.

81-550. FIG. C. Chassis type. 20 watts (165 ma. at 123 volts). Can be used with 2 speakers, each requiring 10 watts. Has socket and plug. Size, 4½x4x2°. With 2—117Z4GT tubes, AC cord and \$4.25 plug. For 110 V., 50-60 cycles, 3 lbs. NET



SPEAKER EXTENSION CORDS

Handy accessory consists of 30-foot two-conductor rubber-covered extension cord fitted with two-prong male connector on one end, two-prong female connector on other end, Shog, wt., 3 lbs. \$1.10 \$1.10

49-551. For field coil dynamics. 30-toot 4-cond. cable, 6-prong male plug on one end—6-prong 72.10 socket on the other Wt. 3 lbs. NET

FOR COMPLETE INDEX SEE **PAGES 198-199**

Knight DYNAMIC PA SPEAKERS **(B)**

GUARANTEED FOR ONE FULL YEAR

Every Knight PA Speaker listed below is guaranteed for one year against defects in materials or workmanship. Any Knight Speaker which does not operate properly will be promptly replaced or repaired free of charge. (Guarantee does not cover burn-out from overload, damage by water, or abuse).

A' WORD ABOUT PM SPEAKERS

As a result of the allocation of materials during the National Emergency, it may not be possible to maintain deliveries of PM type speakers. In this field coil dynamic speaker, complete with field supply, or (B) hold your order until the PM speaker can be supplied. Specify preference when ordering.

8-INCH-5 WATTS

6.

Fig. C. An exceptional PM speaker 81-505. Same as above but with 6 watt 1235 ohm field. Used in Knight 7 w. systems. \$2.35 Less trans. 4 lbs. NET. . \$2.35

81-506. As above but with 6 watt 2500 ohm field. Use with 81-552 field supply. Less 2235 transformer. 4 lbs. NET... \$2.35 81-552. 13-watt—110 volt AC operated field supply for 81-506 above. With 35Z6GT \$2.65 tube. 2 lbs. NET......\$2.65 64-910. 500 ohm line trans. NET.... 61 c

64-911. Univ. plate trans. Wt., 1 lb. NET.....

12-INCH-13 WATTS

Fig. B. A heavy-duty PM speaker with remarkable power-handling capacity and excellent frequency response. For public address work and other uses demanding good response. Normal rating, 13 watts; peak, 20 watts. 20-ounce magnet; 6-8 ohm bakelized voice coil. Less output transformer. Wt., 6½ bs. 81-521.

64-913. Univ. plate. trans. 840 Wt., 1 lb. NET EACH...... 840

12-INCH-16 WATTS

Fig. B. PM Type. Extra efficiency and power capacity: normal rat

81-523. Similar to above but has 1500 ohm 9 watt field. Requires only the addition of the AC field supply listed below to substitute for any Permo-Dynamic speaker application. Less trans. Wt. 81/4 lbs. \$5.95

Wt. 8¼ lbs.

NET

81-552. Field supply designed for use with 81-523 field coil speaker above. Delivers 13 watts of excitation. Strap mounting type; fits on speaker. With 6 foot AC line cord and 35Z5GT rectifier tube. Wt., 2 lbs.

NET

2.4500 claration.

64-914. 500 ohm line trans. 64-915. Univ. plate \$1.11 trans. 2 lbs. EACH..... \$1.11

GIANT 12"-20 WATTS

Fig. A. PM Type. Built to provide life-like fidelity at high volume over the entire range. Normal rating, full 20 watts; peak, 30 watts. Has extra-heavy 4 lb. magnet; 8 ohm bakelized voice coil; specially treated come. Dustproof. Less output transformer. Wt. 13 lbs. \$16.20

81-525. NET

81-526. Similar to above but has 1240 ohm 10.3 watt field. Requires only the addition of the AC field supply listed below to substitute for any PM speaker application. Less trans. Wt., 13 59.27 lbs. NET



76c

NEW FIELD COIL DYNAMIC SPEAKERS

Require only the addition of the AC field supply at right to substitute for any PM speaker. All feature standard weather-resistant construction. 8 ohm voice coils. Supplied less output transformer. See listing below.

	Stock No.	Model	Size	Norma			eld Res.	Wt.	NET
ď	81-020	8AC30	8"	12	18	9	1500	71/4	\$ 5.14
	81-021	10AC12	10"	9	14	7.5	1950	61/4	3.53
	81-025	12AC12	12"	10	14 15 20	8	1950	6	4.12
	81-026		12"	13	20	7.2	2000	7	5.29
	81-027	12AC40	12"	16	24 32	100	1500	9	6.61
	81-028	12AC75	12"	21	32	10.3	1240	1 13	10.29

PERMO-DYNAMIC SPEAKERS
The last word in PM design. Highly sensitive and efficient. VC, 8 ohms;
6—8 ohms for models marked *. Less transformers. (See below.)

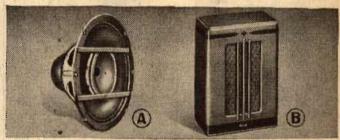
Stock No.	Model	Size	Watts	Magnet	Wt.	NET
81-000	*G8P	8"	10	20 oz.	41/2 Ibs.	\$ 5.44
81-001	H8P	8"	12	31 oz.	61/4 lbs.	7.94
81-010	*E12P	12"	13	20 oz.	61/2 lbs.	8.53
81-011	F12P	12"	16	31 oz.	81/4 lbs.	9.85
81-012	G12P	12"	17	46 oz.	93/4 lbs.	12.94
81-013	GS12P	12"	20	64 oz.	123/4 lbs.	18.67

FREQUENCY MODULATION PM SPEAKERS

8-ohm voice coils. Response to 9500 CPS. Less trans. P820 8" 10 20 oz. 4½ lbs. \$6.03 FP1020 10" 11 20 oz. 5½ lbs. 7.06 FP1220 12" 13 20 oz. 6½ lbs. 8.82 For FM use. 81-040 | FP820 81-041 | FP1020 81-042 | FP1220

ADJUSTABLE TRANSFORMERS
Universal plate and line transformers for Utah speakers. Line type are tapped at 500-1000-1500-2000 ohms; output type 2000-25,000 ohms.

Stock No.	Type	For Speakers	Shp.Wt.	NET
64-900	Line	G8P, 12AC12, 12AC20, 10AC12,		
64 001	0	E12P, FP series	1 lb.	\$1.03
64-901	Output	G8P, 12AC12, 12AC20, 10AC12, E12P, FP series	1 lb.	1.03
64-902	Line	H8P, 8AC30	11/2 lbs.	1.32
64-903	Output		1 1/2 lbs.	1.32
64-904	Line	F12P, G12P, 12AC40	1 1/2 lbs.	1.32
64-905	Output	F12P, G12P, 12AC40 GS12P, 12AC75	1 ½ lbs. 2 ¼ lbs.	1.32
64-907	Output		21/4 1bf.	1.62



UTAH "DUOTONE" 15" DUAL SPEAKER

BAFLEX ENCLOSURES

UTAH AC FIELD SUPPLY

A universal AC operated field supply, With 117 volt, 60 cycle AC input, the DC output is 12 watts at 105 ma. Small size permits mounting in speaker baffle. Less 50V6GT rectifier, line cord, and plug for field connection. Complete with Utah P9356 ballast tube. Size: 51/4" L x 41/4" W x 43/4" H. Shpg. wt., 2 lbs. \$2.79



KNIGHT SPECIAL VALUE 12-INCH AC FIELD-COIL DYNAMIC



MAGNETIC & DYNAMIC SPEAKERS



KNIGHT GUARANTEED DYNAMIC SPEAKERS

All Knight Speakers are guaranteed against any mechanical or electrical defects for one year from date of purchase. This guarantee is in addition to the standard R.M.A. guarantee. YOUR GUARANTEE

PM DYNAMIC SPEAKERS

High-quality permanent-magnet dynamic speakers with exceptional reproducing characteristics. Require no field current excitation. Excellent for replacement in AC, AC DC, auto, or battery sets, and for PA systems, call systems, etc. Less output transformers. (Although we are maintaining very large stocks, PM speakers may not be available throughout the National Emergency; we suggest the use of field coil speakers wherever possible.)

Stock No.	Size	Voice Coil	Watts	Shpg, Wt.	EACH
81-600	31/2"	3-5 Ohms	2.5	1 1/2 lbs.	\$1,68
81-601	5*	3-5 Ohms	3	2 lbs.	1.72
81-602	6"	3-5 Ohms	31/2	21/2 lbs.	1.85
81-603	6"	6-8 Ohms	4	3 Ibs.	1.96
81-604	8"	6-8 Ohms	7	4 Ibs.	2.42
81-605	10"	6-8 Ohms	9	5 lbs.	3.63
81-606	12"	6-8 Ohms	10	6 lbs.	4.32

UNIVERSAL OUTPUT TRANSFORMERS FOR ABOVE

62-300.	For 3½", 5", 6" models; 3-5 ohm VC. NET. 65C For 6" model; 6-8 ohm voice coil. NET. 65C For 8" model; 6-8 ohm voice coil. NET. 65C For 10" and 12" models; 6-8 ohm VC. NET. 84C
62-301.	For 6" model; 6-8 ohm voice coil. NET
62-302.	For 8" model; 6-8 ohm voice coil. NET65c
62-303.	For 10" and 12" models; 6-8 ohm VC. NET

KNIGHT MAGNETIC SPEAKERS



5", 6", AND 81/2" TYPES

81-612. 81/2". NET... 1.75



3-INCH MAGNETICS

For use in pocket-sized midget sets, intercom systems, and compact SW receivers. Rigid pressed-steel frame; full-sized magnet and coil. 23/8" mtg. centers. Small in size but very efficient. Wt., 11b.

81-614. With flange. \$1.05 81-613. Less mounting 98c



WOOD CABINET MODEL 81/2-INCH MAGNETIC

Handsome new walnut-finished wood cabinet with built-in speaker, ideal for extension use or for multiple speaker installations. The sturdy speaker is 8½° in diameter, 3½° deep. Has heavy pressedsteel frame, large magnet, and improved armature structure with 1000 ohms DC resistance to match most multiple speaker lines. Provides excellent frequency response. Attractive matching grille cloth. With 6 foot cord. Sppg. wt., 4 lbs.

93-705. Less Volume Control and On-Off Switch. \$3.05 | 93-706. With Volume Control and On-Off Switch. \$3.45

WALNUT CABINET ONLY

Speaker cabinet. 91/4x91/4x51/2", is also offered separately. Has grilles at both front and back. Will house 8" or 81/2" speaker. 2 lbs. \$1.40

KNIGHT "LIGHTWEIGHT PM" SPEAKERS



100

Especially suited for receivers using low-drain tubes. Ideal for replacing old magnetic speakers when used with the high-impedance transformers listed below. Provide excellent tone quality. Voice coil diameter, ½". Voice coil impedance, 3½ ohms. Supplied less output transformer. Shipping weight, 1 lb.

No.	Size	Weight	EACH
81-620 81-621	31/2"	1 ½ oz. 2 ½ oz.	\$1.05
81-622 81-623	4.	1 1/2 oz. 2 1/2 oz.	1:02
81-624	5"	11/2 oz.	1:13

62-324. 10,000 ohm output transformer for single 1C5G, 1G5G, 6A4, push-pull 6V6, 6F6, 36, 1114G, 41, or 42 tubes. Wt., 1 lb. NET..... 45c

FIELD COIL SPEAKERS

Knight Field Coil Speakers are accepted by discriminating servicemen for use as replacements or original equipment. Built of finest components to assure crisp tonal response and dependable service. With impedance matching chart. All Knight Field Coil types are equipped with universal transformers to match single or push-pull output tubes.

5-inch: ¾° voice coil. 3½ ohms imp. at 400 cycles. 2½° deep. 4 lbs. 6-inch: ½° voice coil. 3½ ohms imp. at 400 cycles. 2½° deep. 4½ lbs. 8½-inch: ½° voice coil. 3 ohms imp. at 400 cycles. 4½° deep. 4½ lbs. 12-inch: ½° voice coil. 8 watts undistorted output. 6° deep. 8 lbs.

NET EACH	\$1.65	\$2.05	\$2.85	\$4.50
2500 Ohms 3000 Ohms	81-652	81-656	81-660	81-663
1500 Ohms 1800 Ohms*		81-655	81-659	81-662
6 Volt 1000 Ohms	81-650 81-651	81-653 81-654	81-657 81-658	81-661
FIELD	5-INCH	6-INCH	81/2-INCH	12-1 NCH

*Tapped at 300 ohms.

KNIGHT AC-DC DYNAMICS



· 31/2-INCH DYNAMIC

Particularly adaptable for small AC - DC sets. Excellent frequency response. 3½ watts maximum input; 4-5 ohm voice coil. Wt., 2 lbs. Less output transformer. Use 62-310 listed at right.

81-680. 450 Ohm Field. 81-681. 2750 Ohm.\$ 1.08 NET EACH...... 1.08



5-INCH DYNAMIC

A very popular replacement type 5' speaker. Will fulfill the requirements of the majority of midget sets. Shpg. wt. 3 lbs.

81-682. 450 Ohm Field. 81-683. 2750 Ohm \$1.15 Field. NET EACH... \$1.15 62-310. Universal output transformer. Wt., 1 lb. NET. 59c

CINAUDAGRAPH SPEAKERS 2-INCH PERMAG

Model 2ZMP. This 2' P. M. speaker is the latest development in compact speaker design. Can be used as speaker and microphone in small inter-communication apparatus. Voice coil impedance is 3 to 4 ohms. A special voice coil to grid matching transformer is listed below. Shpg. wt., 1 ib. 81-220. Less output transformer.NET. 1.18



OTHER SIZES IN PM DYNAMICS

Stock No.	Model No.	Size	VC Imp.	Power Watts	Shpg. Wt.	NET
81-221 81-222 81-223	3ZMP 4ZMP 5OMP	31/2" 4 /8"	3-4 3-4 5	1 ½ 2 2 ½	8 oz. 10 oz. 1½ lbs.	

TRANSFORMERS FOR ABOVE SPEAKERS UNIVERSAL 500 OHM LINE

62-315. For 2", 31/2", 41/2", and 5" models. 3-5 ohm VC. 68c Wt., 1 lb. NET EACH... 68c Wt., 1 lb. NET EACH... 44c

62-317. Voice coil to grid for 2", 31/2", and 41/4" models. NET... 68c

NEW CINAUDAGRAPH MAGNETIC SPEAKERS

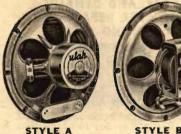
Efficiently designed, ruggedly constructed magnetic speakers. Balanced armature unit maintains perfect alignment under all operating conditions. Have heavy frames and large magnets. Thoroughly rustproof finish. Excellent frequency response makes these speakers especially desirable for battery and AC-DC sets, extension speaker units, multiple speaker installations in school sand institutions, etc. Will match most output tubes. DC resistance, 1000 ohms. \$1.18.

81-230.3½ Model. Wt., 11b. NET. 1.26.
81-231. 57 Model. Wt., 11b. NET. 1.26.
81-234. 8 Model. Wt., 2 lbs. NET. 1.53.



MAKE ALLIED YOUR RADIO SUPPLY HEADQUARTERS

YNAMIC JENSEN SPEAKER



4

STYLE B

GENUINE UTAH SPEAKERS

Years of speaker leadership are built into each Utah speaker. Utah engineers have been designing the finest quality speakers since the earliest days of Radio. Skilled workmanship and precision manufacturing have been successful in keeping the Utah line always out in front with the latest speaker developments and improvements. Only the finest of materials go into the manufacture of Utah speakers. Each component part is carefully tested in the Utah laboratories before assembly to insure you of the very finest reproduction obtainable from every speaker, regardless of cost. Every unit is backed by Utah's long experience and enviable reputation as world's leading pioneer radio speaker manufacturers.





STYLE C

STYLE D

PERMO-DYNAMIC SPEAKERS

STYLE A. The Utah Permo-Dynamic (PM) speakers listed below are especially designed for intercommunicators, portable and battery sets and PA or multiple speaker applications. Comprehensive listing allows choosing the proper speaker for any application. *Magnet weight.

Stock No.	Model No.	Size	V.C. Imp.	Normal Watts	Shpg. Wt.	NET
81-080 81-081	3P 5P	31/2"	3.5	2.5	1 lb. 2 lbs.	\$1.97
81-082	6P 8P	6"	6-8	4 7 (5)+	2 lbs.	2:50
81-083	ESP 10P	8"	6-8 6-8	7 (5 oz.)* 7 (7 oz.)*	3 lbs. 3 lbs.	3.38
81-085 81-086	10P 12P	10"	6-8 6-8	10	5 lbs. 6 lbs.	6.03

UNIVERSAL TRANSFORMERS FOR ABOVE

62-340.	For 31/2" and 5" speaker. Wt., 1/2 lb. 1 NET	74
62-341.	For 3½" and 5" speaker. Wt., ½ lb. \ NET For 6" and 8" speakers. Wt., ¾ lb. \ EACH	. / Oc
62-342.	For 10" and 12" speakers. Wt., 1 lb. NET	\$1.03

UTAH UNIVERSAL AUTO SPEAKERS

The speakers listed below cover all of the more important replacements used in auto radio receivers. Both PM and electro-dynamic models are included. Most electro-dynamic types do not have transformer mounting brackets, pin-jack terminals being used to conserve space.

81-081. 5-Inch PM Dynamic. Style A. 3.5 ohm VC. With transformer bracket, less transformer. Overall depth, 25%. Out-\$2.06 side dia., 5. Mounting hole centers, 3%. 2 lbs. NET....

81-130. 6-Inch PM Dynamic. Style A. 6-8 ohm VC. 7 oz. ring magnet. Less transformer but with bracket. Depth, 2¾". Outside dia., 6½". Mounting hole centers, 4½6". 2 lbs. NET.. \$2.94

81-102. 5-Inch Electro-Dynamic. Style B. 3 ohm VC, 6 ohm field. Transformer bracket, less transformer, 12" leads. Depth, 21/4". Dia, 5". Mtg. hole centers, 35/16". 2 lbs. NET.... \$1.62

81-131. 5-inch Electro-Dynamic. Style C. 3 ohm voice coil. 4 ohm field. Less transformer and mounting bracket. One side of field coil connected to speaker frame. Pin jack terminal. Depth. \$1.82.2½°. Outside dia., 5½°. Mtg. centers, 32½°. 2 lbs. NET...

81-132. 6-Inch Electro-Dynamic, Style B. 3 ohm VC, 4 ohm field. Less transformer and brkt. Field grounded to frame. \$2.50 Depth, 2²½". Dia., 6½". Mtg. centers, 4¾6". 3 lbs. NET...

81-133. 6-Inch Electro-Dynamic. Style C. Voice coil, 3 ohms; field, 4 ohms. Square mounting. One side of field grounded to frame. Pin-jack terminal. Less transformer and bracket. Depth, 221/2"\$2.47 Outside dia., 73/2". Mounting centers, 411/6", Wt., 3 lbs. NET

81-135. 7-Inch Electro-Dynamic. Style D. 3 ohm VC. 4 ohm field. Mounting holes on 72° radius. One side of field grounded to frame. No transformer or bracket. Pin-jack terminal. Depth, 3½". \$2.91 Dia., 7". Mtg. centers, 4½". 3 lbs. NET.....

81-136. 7½-Inch Electro-Dynamic. Style C. 3 ohm VC, 4 ohm field. One side of field grounded to frame. Less transformer and bracket. Drilled and tapped for ¼" No. 20 mounting bolt. Depth. \$3.09 3½". Dia., 7½". Mtg. center, 51½". 3 lbs. NET......

37-120. UTAH Replacement Speaker Catalog-Sent FREE.

MODEL Q FIELD-COIL SPEAKERS

STYLE B. The famous Utah "Q" line of speakers represents the highest quality speaker in the low price field. Ideal for replacement purposes or for original installations. A speaker can be chosen from the listing below to match 90% of the sets now in use. Universal output transformers supplied with all speakers except 4° and 5° models (*). 4° and 5° speaker transformers listed below. All "Q" speakers have 2½ ohm VC.

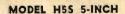
Stock No.	Model No.	Size in Inches	Field Ohms	Shpg. Wt. Lbs.	NET
81-100	Q330*	4	2750	2	\$1.62
81-101	Q345*	45555666688880	450	2	1.62 1.62 1.62 1.62
81-102	Q506*	5	6	2	1.62
81-103	Q530*	5	2750	2	1.62
81-104	Q518*	5	†1800	2 2	1.62
81-105	Q545*	5	450	2	1.62
81-106	Q610	6	1000	3	2.50
81-107	Q618	6	†1800	3	2.50
81-108	Q625	6	2500	3	2.50
81-109	Q810	8	1000	4	3.23
81-110	Q818	8	†1800	4	3.23
81-111	Q825	8	2500	4	3.23
81-112	Q1010	10	1000	6	4.41
81-113	Q1020	10	2000	6	4.41
81-114	Q1025	10	2500	6	4.41
81-115	Q1210	12	1000	7	5.14
81-116	Q1215	10 12 12	1500	7	5.14
81-117	Q1220	12	2000	7	5.14
81-118	Q1225	12	2500	7 .	5.14

*Select output transformer for 4" and 5" speakers from listing below. †Tapped at 300 ohms.

SINGLE TUBE OUTPUT TRANSFORMERS

JENSEN SERIES "S" DYNAMICS

Exceptionally good speakers for use as original equipment or for general replacement purposes. All speakers are completely dustproofed; supplied less transformer but with facilities permitting easy attachment. Standard RMA mounting dimensions. Weights are comparable with similar sizes above. *With transformer. †Tapped at 300 ohms.



82-154 2750 4	Stock No.	Field Ohms	VC Imp.	NET
00 455 4000 4 1 4-			4500*	\$2.23
	82-155	1000	4	\$1.76
82-156 6 Volt 4 82-157 1800+ 4			4	11.70

MODEL HAS A-INCH

MODEL HOS GILLON						
Stock No.	Field Ohms		NET EACH			
82-159	2750	4				
82-160		4	\$1 01			
82-161		4	\$1.91			
82-162	6 Volt	4	William Co.			



MODEL H45 4-INCH

Stock No	Field Ohms		EACH
82-150 82-151	1000	4	\$1.71
82-152	3000	4	

MODEL FRRS 8-INCH

NET	Stock No.	Field	VC Imp.	NET
\$1.91	82-163 82-164 82-165 82-166	†1800	4 4 4	\$2.50

64-816. Type ZP-1020. Output trans. Adj. pri. imp. 1 lb... 64-817. Type Z-2359. 500 ohm to VC. 1 lb... 64-818. Type Z-2355. 7000 ohm to VC. 1 lb... 64-819. Type Z-2362. 10,000 ohm c.t. to VC. 1 lb...



QUAM PM AND PERMANIC SPEAKERS PM JUNIOR SPEAKERS

A famous line of first quality speakers. Completely dustproofed. For use in battery, AC-DC, portable sets, auto sets, or small PA systems. Voice coils, 4 ohms at 400 cycles. Less transformer.

No.	Size	Magnet	Rating	Wt.	NET
81-300	4"	2 oz.	1.5 W.	2 lbs.	\$1.21
81-301	4"	4 oz.	2.5 W.	2 lbs.	1:44
81-302	5"	4 oz.	2.5 W.		1.47
81-303	61/2"	4 oz.	2.5 W.	3 lbs.	1.71
81-304	8	5 oz.	3.5 W.	3 lbs.	2.06

62-330. Universal Output Trans. for speakers above. NET 68c

PERMANIC SPEAKERS

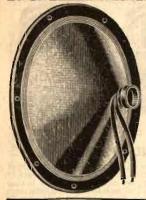
Moving armature type speakers with genuine Alnico magnets for long life. Suitable for use in portable, battery or AC-DC sets, intercom paging or call systems, and many similar applications. Require no field current and no output transformer. Use 500-ohn models for multiple speaker systems or on long lines. High impedance models match any output tube with plate impedance of 12000 to 25000 ohms. Avg. wt., 2 lbs.



Ohms	4"	NET	5"	NET	61/2"	NET
Ohms 12000-25 000 500	81-310 81-311	\$1.29	81-312 81-313	\$1.32	81-314 81-315	\$1.53

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL. 101

REPLACEMENT PARTS FOR SPEAKERS



CARRON EXACT DUPLICATE **QUALITY SPEAKER CONES**

Duplicate replacement cones accurately designed and carefully constructed to match the originals. One piece seamless material is used; noted for enduring and pleasing quality. An accurately wound voice coil is attached to each cone. Cones are precisely formed by patented process to secure excellent tonal quality and long life. Voice coils are also exact duplicates of the originals. For improved tone quality, replace your old speaker cone.

Approximate cost for cones not listed below: 4" to 6" cones—\$0.90; 7" to 9" cones—\$1.50; 10" to 12" cones—\$1.95; cones 13" and over—not to exceed \$2.75. Send in old cone with remittance. Name, size of speaker, numbers or letters stamped on speaker and cone will help us give you faster service. If entire speaker is sent in for cone installation, add 75c to above prices for all but 4" to 6" cones. Add 50c for 4" to 6" cones. This service includes at no extra charge, remagnetizing of PM's, if needed. Average shpg. wt. of cones, 2½ lbs.

P.M. AND DYNAMIC SPEAKER REPAIR AND CLEANING SERVICE



Repair your old speaker and bring back its original performance. Our speaker engineers will replace entire cone with a new one-piece genuine CARRON seamless cone, eliminate dust particles and other causes of hazy reception, align voice coil so it rides smoothly without rubbing and put speaker in A-1 working condition for small charges—outlined at left.

Stock No. 1

Set or Speaker No.

4" SPEAKER CONES

5" SPEAKER CONES

82-510. Airline 62-274, -350, -351, -352,

82-510. Airline 62-274, -350, -351, -352, -436.
82-511. Airline 62-518.
82-512. Airline 62-236. 62-263.
82-513. Arvin 467, 518.
82-510. Belmont 425, Pt. #114-108.
82-514. Belmont 580, Jensen F5R.
82-514. Belmont 666. 690.
82-515. Chevrolet 985426 (Magnavox 1D-1400).
82-515. Chevrolet 985426.
82-512. Chevrolet 985425.
82-513. Chevrolet 985425.
82-514. Chevrolet 985425.
82-515. Chevrolet 985533 (41045).
82-517. Chevrolet 985533 (41045).
82-511. Crosley 648, 718C.
82-511. Crosley 437, 517, 547, 5517.
82-521. Crosley A366, 515 (Magnavox.)
82-522. Crosley 516.
82-523. Crosley 516.
82-523. Crosley 515. 5515 (Utah).
82-521. Delco 640, 631A, 4099 (Magnavox 1D-76).
82-512. Delco 640, 631A (Operadio.)
82-514. Emerson 107, 111.
82-513. Kadette 21, 22, 23, 86.
82-510. Zenith 49-15.
82-514. Zenith 49-15.
82-515. Zenith 49-15.
82-524. Zenith 49-15.

6" SPEAKER CONES

82-535. Airline 62-173, -5, -6, -7,193, -6, -8, 229, 316.

82-535. Arvin 20, 25, 29, 15.

82-535. Belmont 667, 740, Pt. 114-62, 82-536. Belmont 777, Jensen F6R.

82-538. Cadillac C-8-56-52-53.

82-538. Cadillac C-8-56-52-53.

82-535. Chevrolet 985252, Operadio, 92-536, Jensen F6R.

82-539. Jensen PM6c, G6R.

82-539. Jensen PM6c, G6R.

82-540. Majestic G24, 116, Ford Auto.

82-536. Motorola 75.

82-541. Motorola 25F & 28D.

82-542. Motorola 944, 28-0-3P.

82-535. Sentinel 52A, 72A, 600, Operadio.

82-536. Sparton 537, 547, 518, 548, 558, 568, 577, 578.

82-535. Sentinel 52A, 72A, 600, Operadio.

82-535. Wells-Gardner 7J, 6D, Operadio.

82-537. Westinghouse WR209, WR211.

82-535. Zenith 49-81.

82-536. Zenith 49-143, 49-153. **82-535.** Airline 62-173, -5, -6, -7,193, -6, -8, 229, 316.

7" SPEAKER CONES

82-550. Motorola 400 Spkr. No. 50B18005. 82-551. Zenith 49AB341. \$1.03

8" SPEAKER CONES

8 SPEARER CONES

82-560. Airline 62-175, 62-176, 62-190.
82-561. Chevrolet 985283.
82-562. Chevrolet 985536.
82-563. Crosley M45. Model 262, 408, 425, 308, 318, 338, 348
82-564. General Electric A52, A55, A64, A65, A70, A83.
82-565. Jonsen PMSD, ESR.
82-565. Motorola 55, 8-50, 70
82-566. Motorola 500, 29B, 258,-59,-61,-64. (Cent'd. next column)

Stock No. | Set or Speaker No.

9" SPEAKER CONES

10" SPEAKER CONES

82-590. AK15142 Mod. 55, Speaker F4. 82-591. AK14374 Model 55, Speaker F2 82-592. Majestic G3, 90, 91, 93, 101-3. 82-593. Majestic G6-G7, 51, 52. \$ 1.47 ANY 10" CONE, NET.

12" SPEAKER CONES

12" SPEAKER CONES
82-600. G.E. E11. E26, E61, E68, E81, E86, E105, E115.
82-601. Grunow Spkr. 12A1, 12A2, 12A6, 12G4-1, 901-2, 1101, 1291, 1541.
82-602. Jensen D7, D8.
82-603. Jensen PM12C.
82-604. Jensen PM12GS.
82-605. Majestic G13B, G13C, 315, 353, 82-606. Oxford 12AMP, 12MS1, 12MS2.
82-607. Rola G12.
82-608. Utah No. 1220, CU29. \$ 1.70

FOR PHILCO SETS

Stock No.	Set Model or Speaker No.	Dia.	NET
82-620	Phileo TH-4	4	\$0.53
	Phileo TP4-12-25	4	.53
	Phileo AR 1 Phileo 39-6, 39-7	5	.53
	Philco C32, FT9,	3	.55
	Walter Control Control	51/8	.59
82-632	Philco Pt. No. 02861,	35	1
	48, 50, 80, 81	53/4	.59
	Phileo Pt. No.	-12	
	38-12 (121) Phileo Mod. C1608	2/8	.59 .59
	Phileo 1708-F1740	51/a 6 7	.65
	Philco AR 4	7	.65
	Philco Pt. No.	183	
36-3159,	Mod. 6, 7, 8, 9, 10,	447	
92-643	5, 19, 43, 47, 71, 89, 91 Philco Pt. No.	73/4	.59
	Mod. 34B, 38B, 60B.		
	B, 260B, 267B, 625B	71/2	.59
82-645	Philco 90, 46, 20, 21.	10000	
70, 470,	490, 650	85/8	.73
	Philco 87, 65, 95, 76, 15, 111, 90, 112	1077	.82
20, 11, 9	13, 111, 90, 112	10/8	.82
	EOD DCA SET	C	

OR RCA SETS

82-650 RCA 9TX3, R24	4 1	.59
82-651 RCA Pt. No. 9023.		
Mod. M34, M105		.59
82-652 RCA Pt. No. 8987.	1	
Mod. R28, R28P, RE40.		
RE40P, 100-1, 110-11, 114-15,		
M116, 300, 301		.59
82-653 RCA Pt. No. 9428.	Maria de la	
Mod. R37, R38, R38P, 112,	2000	
121, 122, 124, 126B, 241B,		
310, 320, ACR136, M123,		
M107, 118	61/2	.59
82-654 RCA-Victor R32.		1-1
RE49 saving	0	1 02

CENTERING SHIMS

Flexible celluloid spacers for centering and adjusting cone in pole slot of speaker. 4 shims each of the following sizes: 005; 0075; 010; 0125. In handy leather case. Shpg. wt., 5 oz. 35€ 43-105. NET

EXACT DUPLICATE FIELD COILS



No.	Set or Spkr.	Ohms	NET
61-800	Apex 26 (11/4x25/gx	11 500	\$1.35
61-801	1½") Apex 8A (15/6x21/4x	11,300	31.33
	1")	6,600	1.35
61-802	Phileo 20	3,100	1.18
61-803	Philco 86, 87, 66, 95,		Tar Daniel
	76, 96, 77	3.200	2.65
61-804	Phileo 70	3.600	1,18
61-805	Victor RE32, 45, 75	2.950	2.79
61-806	WestinghouseWR309,	July 100	1
	WR207	1,900	1.32

UNIVERSAL FIELD COILS

For AC-DC midget 5" and 6" speakers. 1" inside dia.; 2" outside dia. 1" high. Supplied with 3 gaskets for fitting any pole-piece. 61-815. 450 Ohm. 61-818. 2,000 Ohm. 61-815. 1,000 Ohm. 61-819. 2,500 Ohm. List, \$1.50. NET EACH 88c

FOR "TINY" SPEAKERS

Universal Field Coils for those "tiny" dynamics. ½" inside dia.; 1½" outside dia., ½" high. With gaskets and washers, fit any pole piece. Shops. wt. 1 lb. 61-825. 450 Ohm. 61-826. 1,000 Ohm. 61-826. 1,000 Ohm. 61-827. 1,500 Ohm. 61-830. 3,000 Ohm. List, \$1.00.

COILS FOR GENERAL REPLACEMENT

Service any type of speaker. Colls have 2 windings which may be connected in series or parallel to obtain the resistance values shown. Sizes: Type 1—inside dia. 13%, outside dia. 2½, length 13%; Type 2—inside dia. 11%, outside dia. 2½, length 1½, type 3—inside dia. 1½, outside dia. 1½, type 3—inside dia. 1½, outside dia. 2½, length 1½, type 4—inside dia. 1½, outside dia. 2*, length 1½, with instructions. Average shop. wt., 1½ lbs.

PARALLEL RESISTANCE RANGE

Ohms	Type 1 No.	Type 2 No.	Type 3	Type 4
375-460	61-835	61-845	61-855	61-865
560-690	61-836	61-846	61-856	61-866
675-825	61-837	61-847	61-857	61-867
900-1100	61-838	61-848	61-858	61-868
1125-1375	61-839	61-849	61-859	61-869

SERIES RESISTANCE RANGE

NET EACH			\$	1.82
2250-2750 2700-3300 3600-4400 4500-5500	61-836 61-837 61-838 61-839	61-846 61-847 61-848 61-849	61-856 61-857 61-858 61-859	61-866 61-867 61-868 61-869
1500-1800	61-835	61-845	61-855	61-865

SPEAKER CONE CEMENT

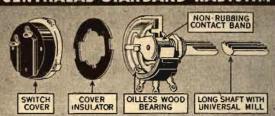
Cement speaker cones, paper rings and felts to speaker frames. Dries quickly; vibration-proof. 3 oz. tube. Shipping wt., 6 oz. 24c



102 OUR PRICES ARE ALWAYS LOWER-WE WILL NOT BE UNDERSOLD

UME CONTROLS





Centralab Radiohms use the famous patented wall-type resistor which hugs inner circumference of the black molded bakelite case. This exclusive non-rubbing contact band assures quiet, smooth rotation and long life. Case size: 1½" dia, and ½" deep. The ½" dia, and ½" deep. The ½" dia, and haft extends 3½" from case. It is milled full length for push-on or set screw type knobs. All controls are carbon type. See below for explanation of taper. Wt., less switch, 5 oz.; with switch, 7 oz. CRL type numbers given below are the new CRL numbers. You may order by these or by the old CRL numbers.

Cat. No. Less Switch	CRL No.	Max. Res. Ohms	Ta- per No.	Cat. No. With Switch	New CRL No.
27-200	A-100	500	1 1 1 1	27-230	B-100
27-201	A-101	1000		27-231	B-101
27-202	A-102	2000		27-232	B-102
27-203	A-103	3000		27-233	B-103
27-204	A-104	4000	1 6 1 1	27-234	B-104
27-205	AF-105	5000		27-235	BF-105
27-206	A-106	5000		27-236	B-106
27-207	AF-107	7500		27-237	BF-107
27-208	AF-108	10000		27-238	BF-108
27-209	AF-109	10000	3	27-239	BF-109
27-210	AF-110	10000	4	27-240	BF-110
27-211	A-111	10000	6	27-241	B-111
27-212	AF-112	15000	3	27-242	BF-112
27-213	AF-113	15000	4	27-243	BF-113
27-214	AF-114	20000	3	27-244	BF-114
27-215	AF-115	25000	1	27-245	BF-115
27-216	AF-116	25000	4	27-246	BF-116

EACH..... 59° SWITCH. 88°

New CRL No. Max. Ta-Res. per Ohms No. Cat. No. With Switch New CRL No. Switch AF-117 A-118 A-119 A-120 25000 50000 50000 75000 27-175 BF-117 27-176 B-118 27-177 B-119 27-178 B-120 27-150 27-151 27-152 27-153 AF-121 A-122 A-123 A-124 75000 100000 100000 150000 27-179 27-180 27-181 27-182 27-154 27-155 27-156 BF-121 B-122 B-123 B-124 27-157 200000 200000 250000 500000 27-183 27-184 27-185 27-186 A-125 AF-126 A-127 A-128 B-125 BF-126 B-127 B-128 27-158 27-159 27-160 27-161 27-162 27-163 27-164 27-165 27-166 A-129 A-130 A-131 A-132 A-133 A-134 500000 500000 750000 1 Meg. 2 Meg. 3 Meg. 27-187 27-188 27-189 27-190 B-129 B-130 B-131 B-132 466666

Cat. No.

TAPPED RADIOHMS

Standard units with taps for tone compensa-tion. Taper No. 10. See explanation below.

	agent and		man bear		
27-247	AT-135 AT-136 AT-137 AT-138	250000	10	27-260	BT-135
27-248	AT-136	500000	10	27-261	BT-136
27-249	AT-137	1 Meg.	10	27-262	BT-137
27-250	AT-138	2 Meg.	10	27-263	BT-138

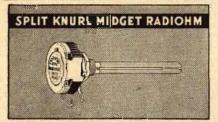
WITH SWITCH. LESS SWITCH. NET 886 EACH \$1.18

WIRE-WOUND RADIOHMS

Similar to above in design and size, but of wire-wound construction. These units have linear taper and are supplied less switch (see right above for switches). Rated at 3 watts.

CRL Type	Res. Ohms	CRL Type	Res. Ohms	CRL	Res. Ohms
V100	2	V114	40	V128	750
V 102	4	V116	50	VF129	1000
V104	6	V117		VF131	2000
V106	8	V118		VF133	3000
V108	10	V121	100	VF134	4000
V109	15	V123	200	VF135	5000
V110	20	V125	300	VF136	7500
V111	25	V126	400	VF137	10000
V112	30	V127	500		

27-100. Specify Type Number and Value when ordering the above controls. 59c



For radio receivers employing brass knurled shaft used with special push-on knob. Fixed shaft, 3½" long. For switch type, add the midget switch covers at right above. 27-143 tapped at 150 M; 27-144 at 300 M. Wt., 6 oz.

No.	Туре	Ohms	Kind	EACH
27-139	NK-139	250000	Plain	
27-140	NK-140	500000	Plain	FO
27-141	NK-141	1 Meg.	Plain	59c
27-142	NK-142	2 Meg.	Plain	511
27-143	NK-143	500000	Tapped	00.
27-144	NK-144	1 Meg.	Tapped	88c

STANDARD SWITCH COVERS

Underwriters' Approved. Bakelite insulated switch mounted on snap-on type plate. Convert any plain Radiohm to switch type.

	W	
	e Kind	NET
27-270. K10	SPST Standard	29c
27-271. KII	SPDT 3 Lugs	35c
27-272. K12	DPST 4 Lugs	35c
27-273. K16	SPDT Clockwise	
27-274. K17	SPST Dummy Lug	35c
27-275. K15	4Point (for Batt. Sets)	35c

TWIN VOLUME CONTROLS

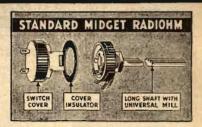
Many troublesome sets with single controls may be improved with No. 74-601 if the original control is in the "C" bias circuit, or with No. 74-602 for the screen grid circuit, or with No. 74-602 for the screen grid circuit. Back case wired in like original control; section nearest shaft is shunted from ant. to gnd. Other listings have same resistance in both sections. No. 6 taper. Case, 1\% x1\%' deep; shaft is 3x\%'. Well-built controls designed to give exceptionally fine service. Wt., 10 oz.

Stock	CRL	Ohms	Ohms
No.	Type	Front	Back
27-285.*	74-601	10,000	25,000
27-286.*	74-602	10,000	50,000
27-287.	4-010-804	500,000	500,000
27-288.	4-010-805	100,000	100,000
27-289.	4-010-807	250,000	250,000
NET			ST AT
EACH			\$1.47

EXPLANATION OF TAPERS

The taper or curve of a volume control is more important than its overall resistance. The explanation given below will help you to select the proper Centralab volume or tone control for use in any type receiver or amplifier circuit. The numbers shown correspond to the taper numbers given for the Centralab controls on this page and also on page 106. Refer to this explanation when ordering volume or tone controls, or ask us for the control you need. Always mention make, model number, and tube lineup of set or amplifier and how control is used. Standard applications of each taper are as follows: (1) Voltage divider with uniform resistance change. (3) Antenna and cathode bias control of one or two tubes, no bleeder current. (4) Antenna and cathode bias control of one or two tubes, or tone control. (10) Audio grid, antenna, or tone control. (10) Audio grid volume control tapped for tone compensation.

Refer to Page 106 for Additional Centralab Volume Control Listings



Bakelite case, 11/8" diameter. Metal shaft is 1/4" dia. x 33/8" long. For use with push-on or set-screw type knob. Ground-lug supplied. High-quality all-purpose controls. Wt., 4 oz.

Cat. No.	1000	Max.	Ta-	Cat. No.	Test in
Less	CRL	Res.	per	With	CRL
Switch	Туре	Ohms	No.	Switch	Type
27-000	NF106	5000	1	27-025	PF106
27-001	NF107	10000	ī	27-026	PF107
27-002	NF100	10000	3	27-027	PF100
27-003	NF108	10000	4	27-028	PF108
27-004	N109	10000	6	27-029	P109
27-005	NF110	15000	3	27-030	PF110
27-006	NF111	15000	4	27-031	PF111
27-037	NF112	20000	3	27-032	PF112
27-008	NF113	25000	ĭ	27-033	PF113
27-009	NF101	25000	1 3	27-034	PF101
27-010	N114	50000	ī	27-035	P114
27-011	N115	50000	6	27-036	P115
27-012	N116	100000	1	27-037	P116
27-013	N117	100000	6	27-038	P117
27-014	N102	250000	6	27-039	P102
27-015	N118	500000	ĭ	27-040	P118
27-016	N103	500000	6	27-041	P103
27-017	N104		6	27-042	P104
					-

Less Switch. 59c With Switch. 88c

TAPPED MIDGET RADIOHMS

Less	CRL	Max.	Tap.	With	
Switch	Type	Res.	Res.	Switch	
27-051 27-052 27-053 27-054	NT119 NT147 NT148 NT120 NT149 NT150	250M 250M 350M 500M 500M	75M 125M 75M 150M 250M		PT120 PT149
27-056	NT121		300M	27-076	PT121
27-057	NT151		200M	27-077	PT151
27-058	NT152		400M	27-078	PT152
27-060	NT122	2 Meg.	600M	27-079	PT122
	NT153	2 Meg.	1Meg.	27-080	PT153
	NT154	2 Meg.	1Meg.	27-081	PT154

NET EACH. 88c With Switch \$1.18

MIDGET SWITCH COVERS

Underwriters' Approved bakelite midget switch cover. *For use with battery-radio circuits. Snap-on type for easy attachment, Wt., 3 oz.

		med accommendated theret	
No. CR	LType	Kind	NET
27-090.	K.155	SPST. (Standard)	. 29c
27-091.	K.156	SPDT	.35c
27-092.	K.157	DPST	35c
27-093.	K.169	SPST. (Dummy Lug)	.35c
27-094.	K.158*	Four Point	350
The state of the s	1000		



These controls are identical with the standard Radiohms on this page but have 2¼" shaft. Grooved every ½". Easy to cut shaft. See explanation of tapers at left. Less Switch. May be converted to switch type by adding any switch cover as listed in center column. 5 oz.

No.	Type	Ohms	Taper	EACH
27-300	AS-139	10000	1	
27-301	AS-140	25000	1	12000
27-302	AS-1141	50000	1	7/10/20
27-303	AS-142	100000	1	100
27-304	AS-143	100000	6	100
27-305	AS-114	250000	1	EO.
27-306	AS-145	250000	6	59c
27-307	AS-146	500000	1	
27-308	AS-147	500000	6	
27-309	AS-148	1 Meg.	6	-
27-310	AS-149	5 Meg.	6	
27-311	AS-150	10 Meg.	6	-

CENTRAL RADIO (RL LABORATORIES

DUPLICATE **VOLUME CONTROLS**

USE ALLIED'S VOLUME CONTROL SERVICE

The listings below, and also on the following pages, are practically all of the Centralab Special Exact Duplicate Volume Controls as shown in the latest CRL Guide, listed at right. These controls are exact duplicates electrically of the original controls. It is not necessary to make any alterations in these units. Shafts are the correct length with the proper milling, lugs are positioned like the original, etc. If your set is not listed below, send us your defective control with a 70c deposit, mentioning the name and model number of the set, and the number and type of tubes used. We will make immediate shipment from stock of the proper replacement control, COD for the balance. Average shipping weight of CRL Volume Controls is 7 oz.

104



CENTRALAB VOLUME CONTROL GUIDE

Centralab Volume Controls have important features of design not available in controls of any other make. This has been accomplished through the accumulated knowledge gained by specializing exclusively in variable resistors since the early days of commercial radio. It is your guarantee that Centralab Volume Controls offer you the very finest in noise-free, long-lived operation. The latest edition of the CRL Volume Control Guide listed at left covers thousands upon thousands of sets. The proper CRL Volume Control, and other important data, is given for each model receiver. This valuable Guide is offered free with an order for Centralab Volume Controls. Ask for a copy with your next order.

37-070. CRL Volume Control Gulde. Sent-FREE.

Manufacturer & Model	No.	NET	Manufacturer & Model	No.	NET	Manufacturer & Model	No.	NET
All-American Mohawk	07 505	es 17	General Electric (Cont'd.)	7	205	Majestic (Cont'd.)	117411	Onal sell
B80 D 1931DC	27-525 27-526	\$1.47 1.76	M50, M51, M51A, M52, M55, M56, C60, M62, M655.	DECT: UNITED TO	1,345	90, 90B, 91, 92, 100, 100B, 101, 102, 103, 180 (Equal-		-2-3-7
	27-527	1.47	M655. G53, G56, G64, G65, G75	27-663 27-664	\$1.18 1.18	100 101 (Comb.)	27-763 27-764	\$0.88 1.47
Arvin (Noblitt Sparks) 7, 17, 27, 37	27-500	1.18	K60, K60P, K63, M63, K65,	EWA	7	izer)	27-765	1.47
7, 17, 27, 37 7A, 9A, 18, 19, 20A, 28, 29, 32, 33, 39, 42, 44C	27-501	.38	K65P, C67, K78, K79 N60	27-665 27-666	1.18		27-766 27-767	1.47
15, 16, 25, 35, 45	27-502	1.18	E61, E62, E68, E71, E72, E76, E81, E86, E91, E95,	THE CANE		118 Ford Car Radio 130, 130A, 131, 132	27-768 27-769	.88
Atwater Kent 37 38 40 41 42 43 44 45		100	E101, E105, E106	27-667	1.18	140	27-636	1.47
37, 38, 40, 41, 42, 43, 44, 45, 46, 47, 52, 53, 56, 57 55, 55C, 55F, 55FC, 60, 60C	27-510	.88	G61, G66, G68-9, G78, G86, M61, M66, M67, M69, M81,	27-668	.88	155, 160 (Phono)	27-770 27-771	1.47
(Late); 66	27-511	1.76	M85, M86, M89	27-669	.88	200, 201, 203, 204	27-772 27-551	1.47
(Late); 66	27-512	1.76	M85, M86, M89 K62, KZ62P, J80, K82, J85, S132, JZ835. F63, F65, F66, FE67-8, F70,	27-670	.88	180, 181 (Comb.) 200, 201, 203, 204 210, 211, 214, 215 220, 221, 223	27-774	.88
60,60C (3rd Type); 70D,70L, 74D, 74L, 76D, 76L, 76P, 87D (F Chassis)			F74, F75, F77, F80, F81, F85, F86, J87, F88.	-2 335		230A, 233 (Comb.) 290, 291, 293, 294, 310A, 310B, 311, 314, 315 (Tone) 340, 344, 360, 363, 390, 393, 370, 371, 373, 380, 381 Treasure Chest.	27-775	1.47
87D (F Chassis)	27-513	1.76	A64, K64, K64D, M65, A66,	27-671	.88	310B, 311, 314, 315 (Tone) 340, 344, 360, 363, 390, 393,	27-776 27-777	1.18
70, 76 (O Chassis)	27-514 27-515	1.47	K66, K66M, A67, M68,			370, 371, 373	27-778	.88 1.18 1.18
80, 80F, 83, 83F, 90, 90F	27-516	1.18	A64, K64, K64D, M65, A66, K66, K66M, A67, M68, A70, A75, K80, K80X, K85, K88, K88X	27-672	.88	100, ELL, TILL, TIO, TION	27-779 27-780	1.18
Belmont Radio	27-530	.88	A83 A85 E115	27-673 27-674	1.47	440	27-782 27-783	1.18
680, 880, 1070, 1170B, 1170C, 1174,	27-531	1.18	G85, G99	27-675 27-676	.88	460. 490, 491, 493. 500, 998.	27-784 27-785	1.18
1175	27-532	1.18	F96, G97, F107, F109, F135.	27-677	-88	800	27-786	.88
879 (Tone)	27-533	1.18	G105, K105, G106 (Plain) K105, K106, K106P, K107,	27-678	.88	Montgomery Ward (Air-	11.80	
8 29 (Pulley Type) 48, 49 (Early)	27-550	.88	K126, M128, M128R, M129 (with switch)	27-679	1.18	line) 62-23, 5 Tube, 123	27-800	1.47
48, 49 (Early)	27-551 27-552	1.47	M106, M107 FE112, FE116	27-680	.88	62-23, 5 Tube, 123 O7A, 62-103, 62-105 AE10.	27-801 27-802	.88 1.47
58, 62	27-553 27-554	.88	A125	27-681 27-682	1.47	62-77 62-120 62-122 62-126	21-002	-
60, 61, 63		THE WAR	J125	27-683 27-684	1.47	62-128, 62-149, 62-155, 62-160, 62-162, 77	27-803	88
634 536 (Less Switch); 636, 637.	27-555 27-556	1.18	J125A M125. E126, E129	27-685	.88	62-103, 62-105 62-118	27-804 27-805	1.18
736, 737, 738, 838	27-557	-88	E155	27-686 27-687	1.18	62-166, 62-202	27-666	1.18
Crosley Radio 27, 28, 30, 31, 33, 34; 40 S, 41 S, 42 S, 31 5 (3rd); 82 S.	es. 165	4 15 5 6	General Motors		The state of	62-169, 62-171 62-178, 62-181, 62-189,	27-530	.88
41S, 42S, 315 (3rd); 82S, 40S, 41S, 42S, 71A, 82S (1st)	27-570 27-571	1.47	RIA, 281 Converters S4A, S4B: 292, 293 Chassis	27-700 27-701	1.47	62-211	27-808	1.18
40S, 41S, 42S, 71A, 82S (2nd)	27-572	1.47	S4A, S4B; 292, 293 Chassis, 18, 110; 120, 130, 140, 150 29100A to 52100A, 1706B		-1-0	62-206, 62-216, 62-218	27-800	1.76
41 A. 42, 602, 608, 609, 610, 704, 705, 706.	27-573	.88	TO FACE D' FOUT CACL THEFE	And the second		62-206, 62-216, 62-218 62-135, 62-186, 62-187, 62-190, 62-196	17-810	1.76
704, 705, 706. 75, 76DC, 77 124, 125	27-574	1.18	General. 170, 130, 140, 150 above No.	27-702	1.47	62-226, 62-228, 62-259	27-811	-1.76
128	27-576	1.18	62100A, and No. 1964B 126, 130, 140, 150 below	27-701	1.47	62-261, 62-308, 62-311, 62-313, 62-314, 62-320,		TURN
143 526, 626, 656, 916, 955, 1016,	27-577	1.18	29100A & 1700B : A. B.	27-704	1.47	62-408, 62-411, 62-418	27-812	1.18
1026, 1155, 5526, 6625 555, 666, 5535, 5666	27-578	1.47	120, 130, 140, 150 Chassis, 160, 1001, A. B (Tone)	27-705	.88	62-261, 62-311, 62-313, 62-314, 62-411 (Tone)	27-813	1.18
366	27-580 27-581	1.18	160, 1001	27-706	1.47		27-814 27-815	1.18
804. 1216, 1316, 1336, 1516	27-582	1.47	Grunow 5G, 6G, 6J Chassis	27-720	1.18	62 901, A&B 62-902, 62-905 93VG562 811, 811 N, 1111, 1111 X	27-816 27-817	1.18
Detrola Radio Corp. 155X, 163, 165, 192, D692	27-590	.88	5G, 6G, 6J Chassis. 6A, 6C, 6F Chassis. 6HB, 7DB Chassis.	27 -721 27 -722	1.18	.2933. 295 /	27-813	1.47
Earl Radio			/B. /E Chassis	27-723	1,18	Motorola (Galvin)	27-819	138.
21. 22 (AC) 31-32S, 33, 315, 371	27-600 27-601	1.47	8A, 9A, 9C Chassis	27 -724 27 -725	1.18	50, 100, 110	27-840	1.18
271	27-602	1.47	Кеппеду	700 010	-27 000-	57,62 60, 70, 75, 79, 80, Twin 6, Colden Voice (1936)	17-841	1.18
Edison-Splitdorf C1, R1, C2, R2, SRC3, M5-6			10 (1929); 12SG, 20, 22	27-735	1.47	Golden voice (1930)	27-842	1.18
(Rear) C1, R1, C2, R2, SRC3, M5-6	27-610	.88	Knight (Allied Radio Corp.) SG9	27-740	1.76	Philco C, D, H, HHD, NDD, PHD,	100	1311
(Front); PAD4, E175 C4, R4, R5, 8P, R12, Abbey	27-611	-88	SiG10	27-741	1.18	10, 800 (Code 122); MT3, RT3, AC266, ST3, T3, 802.	27-850	1.18
R6, R7	27-612	1.47	Kolster K42, K43, K44, K45	27-602	1.47	C. CDS, D.E. MED, NCD.	11 330	2.20
200 (100 to 4) 40 (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	27-613	.88				NDD; SCD (Code: 12:2); SDD, 10, AC206.	17-851	1.18
Eveready 1, 2, 3	27-550	.88	15, 15B, 55-6-7-8, 150-156	27-750 27-751	1.18	C1423, F1440, F1440X,		1000
50 Series	27-621	1.47	20, 21, 22, 23, (Farles)	27-752 27-753	1.18 1.18	G1418, G1436, L1420,		
Fada 10, 10Z, 11, 11Z, 30, 30Z, 31,			25B, 35, 251B, 253B, 254B,	STRIKE		L1460, LT14X3, N1418,		
10, 10Z, 11, 11Z, 30, 30Z, 31, 15M, 15M, Z, 25, 25Z	27-630 27-631	.88	Majestic (Grigsby Grunow) 18, 15B, 55-6-7-8, 150-156 15, 55, 56, 57, 58, 150 (Tone) 20, 21, 22, 23 25, 251, 253, 254 (Early) 25B, 35, 251B, 253B, 254B, 351, 353 30, 31, 230A 50, 51, 52 60, 61, 62, 160, 163 66 Car Radio	27-754 27-755	1.18	SDD, 10, AC206. C1423, F1440, F1440X, F1442, F1442X, FTP9, G1418, G1436, L1429, L1424-5, L1427, L1429, L1460, LT14X3, N1418, N1433H, N1434H, N1514, NT15, NT12X, P1417, P1517, R1415, RT14X, S1416, S1434, S1437, S1516, ST12, ST15, T9, T12, T15, W1419, 811P8, 811PB, 811PV, 816, 817		
15M, 15MZ, 25, 25Z. 16, 17, 18DC, 32 35, 35Z, 75, 77 35B, 35C, 40AC.	27-632	.88	50, 51, 52	27-756 27-757	1.47	P1517, R1415, RT14X, S1416, S1431, S1437		The same
35B, 35C, 40AC	27-633 27-634	1.47	66 Car Radio	27-758	1.18	S1516, ST12, ST15, T9.		
ASB (Wire Wonted)	27-635 27-636	1.47	77, 190-1, 293-4, 300, 300A.	27-759	-88	811PB, 811PV, 816, 817,		200
43, 761-2, 766-7, KF, KG 50, 70, 71, 72	27-637	1.47	66 Car Radio 70, 70B, 71, 72, 73 77, 1904, 293-4, 300, 300A, 303-4, 307, 310A, 310B, 311, 314-5, 320, 321, 330-1, 336 (Volume)	CITY OF THE PARTY		811PB, 811PV, 816, 817, 821P, 821PV, 826, 827, 827K, 838, 328K	27-852	88
General Electric	27-660	.88	330-1, 336 (Volume)	27-760	.88	C1450, C1452, C1546, CT10, CT11, HT11, MT14X4,		L. Letter
T41	27-661	1.47	77, 300, 300A, 303, 304, 307, 320, 321, 330, 336 (Tone). 90, 90B, 91, 92, 93 (Volume).	27-761	1.18	P1 422 F. P1 430, P1 432,	27 052	99
D50, D51, D52, D72	27-662	1.18	90, 3015, 91, 91, 95 (volume).	27-762	88.	PT14, T10, T11	27-853	.88

RADIO HEADQUARTERS FOR DEALERS AND SERVICEMEN

Centralab CENTRAL RADIO RE LABORATORIES

VOLUME CONTROLS

Manufacturer & Model	No.	NET	Manufacturer & Model	No.	NET	Manufacturer & Model	No.	NET
Philco (Cont'd.) C1550, Chrysler	27-854	\$0.88	Philco (Cont'd.) 926, 927, 928K, 936, 937.	ACCOUNT		Temple 5-55, 8-61, 8-81, 8-91	28-130	\$1.47
CGD, CGDU (Code 122);	27-855 27-856	1.18	938KRCA-Victor	27-930	\$1.18	Thordarson Tone Control (4-010-000)	28-140	1.47
CT., CT5, FN, FT6; G, H12, HGD (Code 122): N.			AVR-1, 9 Tube AW, 121-2, 127, 140, 141, 141E, 220- 1-2, 240, 320-1, 327, 340,			Transformer Corp. 40, 100, G120	28-135 28-136	1.18 .88
CT/, CT5. FN, FT6; G, H12, HGD (Code 122); N. Pi, PT5, T2, T5, T6 CRD, DP, DPV, H, HHD,	27-857	1.18	1 54118	27-672 28-000	.88 .88	United Meters (Delea)		1.18
ERD. J. NJD, NQD; P. O. R. SJD, SQD, 11, 700, 800, AC236. F1540 Ford Auto.	27-858	1.18	5M. 5T, 5T-1, 5T-4, 5T-5, 5T-6, 5T-7, 5T-8, C6-2, C6-8, 6K, 6T, 6T-2, 6T-5, 6K-2, 6K-3, 6K-10, 6K-12, T6-1.	3 1		980534, 980535 (Buick) 982044-5 (Olds); 983526-7, 983569 (Pontiac); 985254 (Chevrolet) above Serial Number B16301	WART	
P104U	27-860	1.18 1.18	6K-3, 6K-10, 6K-12, T6-1, T6-7, T6-8, 7K, 7T, 7U.			Number B16301	28-151 28-152	.88 1.76
G1528, N1524, P1530. L1560, P1535. NT7-8, ST7X, T7-8, 806.	27-861 27-862 27-863	.88 .88	78. 76. 76. 76. 76. 77. 71. 71. 72. 78. 77. 71. 71. 72. 77. 77. 77. 77. 77. 77. 77. 77. 77	STATE OF		985426Wells-Gardner	28-153	1.76
P1421, 19 (Code 128)	27-865	.88	8U-2, C8-15, C8-19, C8-20, T8-14, T8-16, T8-18, C9-4.	CONTRACTOR TO		9-in-Line (Early), 1929	28-170 27-814	.88 1.18
P1617 P1630 P1635	27-868	1.18 .88 .88	T8-14, T8-16, T8-18, C9-4, D9-19, T9-10, 811-K T5-2, M107, 117, 118, 119, 125, 211, 214, 225	28-001 27-663	1.18	2C, 2CM, OD, ODM Series. 2DL Series (Volume) 2DL, OEL Series (Tone)	27-812 27-813	1.76 1.18 1.18
S1526. 14 (Early), 15 (Late), 18 (Code 124), 91 (Late), 503 14 (Late); 17, 18 (Code 121); 49, 118, 507. 15 (Early), 32	27-869	.88	H6 Hudson Auto HF6, HF8, 1204, 120K. 120U, R98, U132, U134	28-002	1.18	T4 5G. 35G510, 35G560 Series.	28-175	.88 1.18
(Code 124), 91 (Late), 503 14 (Late); 17, 18 (Code 121); 49, 118, 507	27-870	1.18	6M, 6M2	28-003 28-004	.88	D709 (1935); S709 6F. R-F Series 06A 5E Series	27-808 27-811 27-803	1.76
	27-872	.88	6Q1, 6Q4, 6Q4X, 8Q2, 8QU5C, 8QU5M, T64, T65, T80.	28-005	1.18	6K Series 6N Series; 6R, 6S	28-179 27-666	1.18 1.18 1.18
16 (Code 125-6-7); 17 (Code 122); 116B, 116X; 500, 501, 650, 665, 660, 665.	27-873 27-874	1.18 1.18	R8, R10-1-2, RE18, RE18A, RE19, R21, RO23, RAE26	27-670	.88	60 Atto Sec. 60 Series 7G, 7GM, 7K, 37G508-566. 07A, 17A, WG24 (Tone)	27-805 28-182 27-810	1.18
19 (Late); 89 (Code 123) 20, 20A, 21, 41DC, 42DC.	27-875	1.18	9K. 9K2, 9T, 9K3, 9K10. 9U, 9U2, 10K, 10T, T10-1. T10-3, T11-8, 10K1. C11-1. C11-3, D11-2. C13-2, 15U, 812K, 813K,			07A, 17A, WG24 (Tone) A12, A14, A20, A22, A24	27-801 28-185	.88
19 (Late); 89 (Code 123) 20, 20A, 21, 41DC, 42DC, 70, 70A, 77, 77A, 90 (2-45's), 220, 370, 470, 470A, 570	27-876	1.47	C11-1. C11-3, D11-2, C13-2, 15U, 812K, 813K, 816K	28-006	.88	A12, A14, A20, A22, A24 17B Series. WG24 Series, 291, CG, C, 9-in-Line (Late)	27-804	1.18
22L, 47DC, 71	27-877 27-878	.88	9K1, U109	28-007 28-008	1.18	80-8 Tube	27-819 27-818	1.47
22L, 47D, 71 23X, 91 (Early) 25, 43 28, 29, 45, 245 30, 96, 111, 111A, 112, 112A, 211, 212, 296 34, 39. 35, 36 (Battery) 37 (Battery)	27-879 27-880	1.18 1.18	R14, R15, RE17, Radiola 42, Radiola 48	27-661 27-685	1.47	Zenith Numbers Below Are	28-190	-88
211, 212, 296 34, 39	27-881 27-882	1.18	21, 22 Radiolas	27-660 28-009	1.47	Chassis Numbers	28-200	.88
35, 36 (Battery). 37 (Battery). 37-9, 37-10, 37-11, 37-116. 37-610, 37-611, 37-620.	27-883 27-884	1.47	R35, R39, RE57, RE73 R37, R37P, R38, R38P, 120, 124, 223, 330, 331	28-010 27-665	1.47	5A06AT, 5A06BT, 6A06T. 6A05, 6A20, 8A04. 6A11AT, 6A11BT, 6A18T.	28-201 28-202 28-203	1.18 1.18 1.76
31-023, 31-024; 31-030.			U50 R51B, R53B	28-011 27-674	1.76	6425	28-204	1.18
37-640; 37-641, 37-643; 37-650; 37-655; 37-660; 37-665; 37-670; 37-675;			M70. R78 (Dual) R78 (Single); RAE84 87K1, 87K2, 87T2, U106	28-012 27-683 27-684	1.76 1.47 .88	7A01 7A02 .7A04 7A10T, 8A05AT, 8A05BT 8A01, 8A03	28-206 28-207 28-208	1.18 1.76 1.76
37-2620, 37-2650, 37-2670; 38-116; 38-620, 38-623, 38-624, 38-2630, 38-2650,			R90, R90P, 260-1, 280, 380-1	28-013 27-679	1.76 1.18	8A02 10A1, 10A2; 10A3 below Serial No. 384250 12A1 12A2 12A3 12A4	28-209	1.18
38-624. 38-2630, 38-2650, 38-2670	27-885	.88	96BK6, 96BT6. 96E, 96T, 96T1, 96T4, 96T5, 96T6, 97X	28-014	1.18		28-210 28-211 28-212	1.18 .88 1.18
37-89, 37-690; 38-60, 38-89	27-886 27-887	1.18	96E2, 96K5, 96K6, 96T7, 97K2, 97T2, 97T7, 98K2, 98T, 98T2		line -	1001, 1002, 1201 1004, 1203, 5634, 5635, 5801 1005, 1103	28-213 28-214	1.18 1.18
37-84, 84, 84B, 267E 37-116 (Expander) 37-600, 600 37-602, 602		1.18 1.18	98T, 98T2	28-016	1.76	1202, 1202A, 1601CP, 5903 1202, 1601CP, 5903 (Tone) 1206, 1502, 1503.	28-215 28-216 28-217	1.18 .88 .88
38, 38A, 81, 81A	27-891 27-892	.88	96K2,96K,96T2,96T3,97E, 97K, 97KG, 97T, 97V, 98EY,98VG,98X, U25-6, U119, U122E, U124, U125, M101, M104, M108, M109, U105, U107 (Volume), U107 (Phono), U115, U121, U123, U127E, U121, U123, U127E, U121, U123, U127E, U121, U123, U127E,	28-017	1.76	1207 1501 2037, 2044, 2053 (Noise Sup-	28-218 28-219	.88
123) 38-1,-2,-3,-4,-5, 38-7, 38-8. 38-9, 38-23, 39-30, 39-35,	21-892	*00	M101, M104, M108, M109, U105, U107 (Volume)	27-662 28-018 28-019	1.18 1.18 .88	2037, 2044, 2053 (Noise Sup- pressor Control) 2057 5419	28-220 28-221	.88 1.18
38-1,-2,-3,-4,-5, 38-7, 38-8, 38-9, 38-23, 39-30, 39-35, 39-80, 40-150, 40-155, 40-180, 40-185, 40-190.	27-893 27-894	.88 1.47	120, 12015, ACK130, 143, 224.	28-020	1.76	5510	28-223	.44 1.18
38-690 (Volume)	27-895 27-896	1.47	224E, M226, 242, 243, 322, 322E Duo, 341	27-669 27-680	.88	5536 5538 5539	28-224 28-225 28-226	1.18 1.18 1.18
39-25	27-665 27-898	-88 -88	Sears Roebuck	28-050	1.76	5601M Ford Car 5616, 5617, 5626 5619, 5621, 5629	28-227 28-228	1.18 1.18
40-200, 108 (Volume) 39-36, 39-40, 39-45, 39-55, 39-116, 40-195, 40-200, 108			1708, 1708A, 1709, 1715. 1720, 1721, 1721X, 1722			5630, 5631	28-229 28-230 28-231	1.18 1.18 .88
(Tone)	27-899 27-900 27-901	.88 1.18 1.18	1722X, 1726, 1726X, 1732, 1732X 1869X, 7157, 5 Tube Auto	28-051	1.47	5623AT, 5720AT, 5720BT, 5722T, 2809T	28-232 28-233	1.18 1.18
46DC	27-902 27-903	1.47	(1935)	28-052	1.18	5632 5637, 5803 5646	28-234	1.76 1.18
50, 50A	27-904	1.47 1.18 1.18	69, 79A, 101, 109, 110AC, 301, 589, 591, 593, 930, 931.	28-070	.88	5657 5659 60-1-2, 5672P, 5675 5679, 5715	28-236 28-237 28-238	1.18 .44 1.13
54 57, 58, 59 60, 66, 261, 264, 265, 505 65 70, 70A (AVC); 90 (2-47's), 270 70 Lazy X, 370	27-907 27-908	1.18 1.18	89A, 103, 111A, 564, 570, 574, 600, 610, 620, 737,			5706.	28-239	1.18 1.13
65 70, 70A (AVC); 90 (2-47's).	27-909	.88	410, 420, 430, 750D	28-071 28-072	.88 1.76	5721, 5725 5804AT	28-241 28-242 28-243	1.76 1.18 1.18
70 Lazy X, 370	27-910 27-911 27-912	1.76 .88	Stewart Warner R100, 935, Series 950AC 102D (Battery)	28-085 28-086	.88 1.76	\$902. 5903A, 5904. 5907.	28-244 28-245	1.18
86, 87, 511	27-914	1.18 .88	126A; Chassis 1261 to 1269 900 Series	28-087 28-088	.88	Zenith (Cont'd.) Numbers Below Are Set		
89 (Late)	27-916	.88 .88	Stromberg Carlson 12, 14	28-100 28-101	.88 1.76	Mumbers. 6M390	28-246 28-247	1.18
610. 611 (AC & DC)	27-919	1.18 1.18 1.18	38, 39, 40, 41	28-102 28-103	1.47	6MF490 33, 33X, 34, 35, 35A, 342, 352, 352A, 362 50, 52, 53, 54, 57, 60, 61, 62,	27-803	.88
620 625 630 635 2620	27-921	1.18 1.18	240, 245, 250, 255, 260, 350. 635, 636 (Rear)	28-104 28-105 28-106	.88 .88	622 642 672 (1929);		ETE I
623 (Battery). 640, 641, 642, 645, 651 643.	27-923 27-924 27-925	1.18 1.18 .88	638 (Panel)	28-107 28-108	.88	(Single). 50, 52, 53, 54, 57, 60, 61, 62, 64, 67, 70, 71, 72, 73, 77, 602, 612, 622, 712 (1930);	28-249	1.18
680. 805 (Car Radio). 808 (Car Radio).	27-926 27-927	.88 .88	641, 642, 652, 654 (Rear) 641, 642, 652, 654 (Panel) 846, 848 (Rear)	28-109 28-110 28-111	.88 .88	64, 67, 70, 71, 72, 73, 77; 602, 612; 622, 712 (1930); 722, 732, 772 (1929);	A Section of Market	Fi
809, 810 (Car Radios) 818, 819	27-929	.88	846, 848 (Panel)	28-112	.88	(Dual)	28-250	1.76

105



VOLUME CONTROLS MALLORY



CENTRALAB SPECIAL UNITS

Compact. Ideal for portables and auto sets. Size, 51/4" dia., 25/2" deep, less switch. 4 oz. SPECIFY TYPES AND VALUES DESIRED

SPECIFI TIPES AND VALUES DESTREE						
Туре				Stock No.		
LF-100*	10M	L-105	DOUNT	27-325		
LF-101†			1 Meg.			
L-102		L-107	2 Megs.	59c		
L-103	100M	L-108	3 Megs.	376		
1104	250M	- N. W. M. W. W.	The same of	100		

"ELF" RADIOHMS WITH TAP

CRL Type	Maximum Resistance	Tap Resistance	Stock No. 27-340
LT-150	250M	75M	E. 011
LT-151	500M	150M	EACH
LT-152	1 Meg.	200M	88.
LT-153	1 Meg.	300M	000
LT-154	2 Megs.	200M	Specify
LT-155	2 Megs.	400M	Types and
LT-156	2 Megs.	600M	Values

27-351. SPST Switch. NET...... 29c 27-350. SPST Switch with dummy lug. 35c

*Taper 4. †Taper 3. All others taper 6. See page 103 for explanation of tapers.

UNIVERSAL AUTO CONTROLS



All units have taper No. 10 and tone compensation tap. All "NA" units have slip clutches. DPST switch on type "PA," Type "NA" not made for switch. ½"x3" slotted-shaft easily cut. With guide-funnel. Dia., 1½"., 8 oz.

		"NA"Ty	pe, NoSw.	"PA" Type With Sw.		
Ohms	Туре	No.	EACH	No.	EACH	
250000	123	27-355		27-370	\$1.18	
500000	105	27-356	00	27-371	\$1 10	
1 Meg.	124	27-357	000	27-372	1.10	
2 Meg.	125	27-358		27-373		

EXTENSION SHAFTS

For use with Centralab Controls or where longer shaft is needed. Shafts are 4" long. Easily cut to any length. For 1/4" shafts. 6 oz.

Stock No.		Size	EACH
27-385	K-181	4x1/4x1/12" flat	18.
27-386	K-182	4x1/4x1/12" flat	
27-387	K-183	4x1/16x1/14" flat	



106

POWER RHEOSTATS

Very rugged; ideal for many commercial uses such as motor speed control, charging rate regulator, etc. All 2" in dia. Shaft 1/2" long, 1/4" dia. With pointer knob. Shog. wt., 1 lb.

25 WATT UNITS

No.	Туре	Ohms	No.	Type	Ohms
27400	48-002	2	27407	48-150	150
27401	48-006	6	27408	18-250	250
27402	48-010	10	27409	48-400	400
27403	48-015	15	27410	48-500	500
27404	48-026	25	27411	48-810	1000
27405	48-050	50	27412	415-8:15	1500
27406	48-100	100	27413	48-850	5000

ME		35	
FACU		COLOR MONTH	.18
LAUII.	 		

50 WATT			75 WATT		
27430 27431 27432 27433 27434	48-025 48-060 48-151 48-501 48-811	25 60 150 500 1000	27455 27456 27457 27458 27459	47-277 47-278 47-279 47-280 47-281	50 150 300 500 1000
27435 27436 NET EACH	48-835 48-851	2500 5000 47		25 W ", 75 W	.76

MALLORY VOLUME CONTROLS

TYPE M POTENTIOMETERS



Type M Wirewound Rheostats and Potentiometers are for use where a high wattage control is required for a limited space. Conservatively rated at 4 watts. Contact-arm insulated. Case 15% diameter, %6" deep. Shaft ¼" dia., extends ½" from bushing. Mounts in ½" hole. Wt., 8 oz.

Ohms	Туре	Stock No.	EACH
15 20 25 30 40 50 60 75 100 200 400 500 600	M15P M20P M25P M30P M40P M50P M60P M75P M100P M200P M400P M500P M600P	29-400 29-401 29-403 29-404 29-405 29-406 29-407 29-409 29-410 29-411 29-411	59.
1 M	M1MP	29-413	73.
2 M	M2MP	29-414	
3 M	M3MP	29-415	
4 M	M4MP	29-416	
5 M	M5MP	29-417	
10M	M10MP	29-418	88
15M	M15MP	29-419	
20M	M20MP	29-420	
25M	M25MP	29-421	
50M	M50MP	29-422	§1.18
70M	M70MP	29-423	

TYPE M RHEOSTATS

Ohms	Туре	Amps.	Ohms	Туре	Amps.
1/2 1 2 3	M05R	2.80	20	M20R	. 45
î	MIR	2.00	25	M25R	.40
2	M2R	1.4	30	M30R	. 37
3	M3R	1.15	40	M40R	.32
4	M4R	1.00	50	M50R	.28
6	M6R	.82	60	M60R	.26
10	M10R	.63	75	M75R	,23
15	M15R	.52	100	M100R	.20

29-450. Specify values when ordering. Shpg. wt., each, 6 oz. EACH 44c

TYPE E POTENTIOMETERS RATED 9 WATTS



Heavy-duty, wire-wound potentiometers. Conservatively rated at 9 watts. Recommended for experimental work and test equipment. Can be mounted on panels up to ½" thick. ½" shaft extends ¾" from bushing. Overall diameter is 2%.". Mounts in ½" hoke. Contactaring grounded. Wt., 10 oz.

Stock No.	Туре	Ohms Amps	EACH
29-480		500KD .042	
29-481		10000 .03	\$1.47
29-482	E20MP	20000 .021	
29-483		25000 .019	I I I min i
29-484		50000 .0135	
		75000 ,011	\$1.62
		100000 .0095	
29-487	E125M1P	125000 .0085	
		150000 .0078	
29-650.	Diat Pla	te. 0-10. NET	150

VOL. CONTROL ACCESSORIES





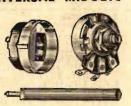
29-670. Fig. A. Type EC256. Insulated Shaft Coupler. One end for 1/4" shaft; 15c other for slotted auto cables. NET.... 15c 29-671. Fig. A. Type EC257. As above but with square slot (Motorola type). 15c

29-660. Fig. B. Type UB241. Universal Bushing and Nut. Accommodates 1/4" shaft. Permits mounting control back of panel. 5c.

29-665. Fig. C. Type 178. Volume Control Wrench. Easy to handle. Prevents marring panels. NET. 29-655. Fig. D. Type RS2U2. Universal Extension Shaft. 4" long. 1/4" dia... 18c

TYPE UM UNIVERSAL MIDGETS

New midget controls, size 1½" dia, ½" dia, ½" with Plug-In Shafts below, offer a great advance in volume control servicing. See page 107 for attachable line switches. Consult the Mallory Encyclopedia. Wt., 6 oz.



NOTE: We can supply controls and shafts for most sets. Send name, model and tube lineup of receiver, with deposit for each unit ordered.

Ohms	Туре	Laper	Ohms	Type	laper	
5M	UM114	4-A	100M	UM143*	1	
	UM118	1	150M	UM144	1 0	
	UM119	2 4 1	250M	UM147	for apper	
	UM120	4		UM149	4 2 2	
	UM121	1		UM150*	1 ~ "	
	UM122	2		UM151	1 00	
	UM124	2 1 2 4 1		UM154	1 08	
	UM128	2		UM156	4 800	
	UM129	4		UM157*	1 60	
	UM133	1		UM158	1	
	UM134	2 4		UM160	2 5 8	
	UM135	4		UM161	1 00 5	
	UM137	1		UM162*	1 %	
	UM138	2		UM163	1	
	UM140	1		UM165	- 1	
	UM141	2 4		UM1801	Spec.	
100M	UM142	4	2 Meg.	UM181#	Spec.	
*Cli	*Clutch type controls no provision for at-					

TYPE TM TAPPED MIDGETS

Similar to UM type above but have tone control tap. Be sure to specify SS type Plug-In Shaft when ordering. Shpg. wt., 6 oz.

Onms	Lype	Tap.	Ohms	Гуре	lap.
250M	TM220	50M	1 Meg.	TM240	200M
250M	TM221	110M	1 Meg.	TM241*	200M
250M	TM222*		1 Meg.	TM242*	450M
350M	TM223*			TM243	450M
500M	TM224*	100M	1½Meg.	TM244	200M
350M	TM225	70M	2 Meg.	TM245	5M
500M	TM226	15M	2 Meg.	TM246	15M
500M	TM227	100M	2 Meg.	TM247	60M
500M	TM228	5M	2 Meg.	TM248	250M
500M	TM230	150M	2 Meg.	TM249	600M
500M	TM231	225M	2 Meg.	TM250	125M
500M	TM232*	225M	2 Meg.	TM251	900M
500M	TM233	60M		TM252*	900M
1 Meg.	TM1234	65M	2 Meg.	TM254	MOON
1 Meg.	TM236	125M	3 Ivleg.	TM257	900M
1 Meg.		300M		TM259	900M
1 Meg.	TM239*	300M		1	1000

*Clutch type. No provision for switch.
29-550. Less shaft. Specify values and type numbers when ordering. See page 107 for midget switch. NET....73c

TYPE SS PLUG-IN SHAFTS

For use with UM and TM controls. Knurled, split and special shafts for home or auto radios. 1/4" to 91/2" long. Specify type number.

Type Type Type Type Type Type

SSI SS2	SS 5 SS 6	SS12 SS16	SS22 SS23	SS25 SS26
SS4	SS10	SS18	SS24	SS27
29-60 EAC:H.	O. Spec	ty Type		15.
SS3	SS11	SS14	SS15	SS21
29-62 EACH	5. Spec	fy Тур		.21.
SS17	SS19	SS20	[marriel]	
29-64 FACH	O. Speci	ty Type		29.

STANDARD DUAL CONTROLS

*Wire-wound, others are carbon units. See page 107 for standard attachable snap-on switches. Dia. 13/8". Wt., 1 lb. 29-590. Specify Type. EACH \$ 1.47

Mfr's. Type	Ohms Front	Ohms Rear	USE
*CE	2M	5M	Ant. Shunt & Bias
*GE	10M	5M	Ant. Bias or Screen
*GG	10M	10M	Ant, Bias or Screen
GK	10M	50M	Ant. Bins or Screen
LL	100M	100 M	Audio in P. P.
LM	100M	250M	Audio Toncor Screen
MM	250M	250 M	Audio in P. P.
MN	250M	500 M	Audio and Tone
NN	500M	500M	Audio in P. P.

FOR COMPLETE INDEX SEE PAGES 198-199

LORY Jamous VOLUME CONTROLS

UNIVERSAL VOLUME CONTROLS



Listings on these pages constitute practically all of the Mallory Volume Controls. With a comparatively small stock, you can now meet therequirements of 90% of all repair jobs. Universal controls, supplied with knob adapter, washer, and nuts. With detachable end cover plates and 3" shaft which can easily be cut to required size. All controls are listed LESS SWITCHES. Shpg. wt. without switch, 5 oz. NOTE: All units shipped less switch unless one is ordered. See the listing of standard attachable switch prices below.

STANDARD UNIVERSAL CONTROLS

No.	Ohms	Туре	Taper	No.	Ohms	Туре	Taper
29-000	2	ţQ.	IV	29-035	15000	*H12	I
29-001	6	‡Ř	ĪV	29-036	15000	‡H	II
29-002	10	‡S	IV	29-037	15000	‡H7	VII
29-003	20	‡T	IV	29-038	20000		IV
29-004	30	‡U	IV	29-039	20000	*Y	I.
29-005	60	‡V.	IV	29-040	25000	Y25MP	IV
29-006	100	‡W	IV	29-041	25000	*J Y50MP	II IV
29-007 29-008	200 400	‡X	IV	29-042	50000	K12	Ĭ
29-009	500	‡A400P	IV	29-043	50000	*K	İI
29-010	550	1A550P	İv	29-045	75000	Z12	Î
29-011	1000	1AIMP	İV	29-046	75000	*Z	ÎI
29-012	1000			29-047	100000	Y100MP	TV
29-012	1000	‡B ‡UC500	Ĭ.	29-047	100000	L	Ī
29-014	2000	‡A2MP	II	29-049	100000	*UC510	ÎI
29-015	2000	1C12	Ī	29-050	150000	UC502	İ
29-016	2000	iC	ÎI	29-051	200000	Y200MP	ÎV
29-017	3000	LA3MP	ÎV	29-052	250000	¥250MP	ÎV
29-018	3000	tD12	Î	29-053	250000	M	I
29-019	3000	iD.	ÎI	29-054	250000	†UC511	I
29-020	3000	‡D7	VII	29-055	250000	*UC509	II
29-021	5000	‡A5MP	IV	29-056	500000	Y500MP	IV
29-022	5000	Y5MP	IV	29-057	500000	N	I
29-023	5000	*E12	1	29-058	500000	†UC512	
29-024	5000	‡E	II	29-059	500000	UC513	II
29-025	5000	‡E7	VII	29-060	750000	UC503	I
29-026	7500	*F12	I	29-061	1 Meg.	Y1000MP	IV
29-027	7500	‡F_	11	29-062	I Meg.	0	I
29-028	7500	‡F7	VII	29-063	1 Meg.	†UC514	İ
29-029	10000	‡A10MP	1V	29-064	2 Meg.	P	
29-030	10000	Y10MP	IV	29-065	3 Meg.	UC504 UC505	I
29-031 29-032	10000	*G12	I	29-066 29-067	4 Meg. 5 Meg.	UC506	Î
29-032	10000	UC501	II	29-068	5 Meg.	UC507	ÎI
29-034		1G7	VII	29-069		UC508	Î
		for auto set		List, \$	1.00.		0 6
	ers carb	, Adjustable	e Blas.	PRICE			59°
		I bias resisto	ara .	EACH			37
Have	externa	Dias resiste	ors.	LACII			PATRI

† Slotted Shaft for auto sets. † Wire Wound, Adjustable Bias. All others carbon. * Have external bias resistors.

STANDARD ATTACHABLE SWITCHES Volume controls listed on this page do not have switches. Select switch to fit control requirements from listing below. Shpg. wt., 2 oz.

29-100. Type 6-9. Standard SPST. Special thin design. List, 50c. NET.......29c

29-102. Type 8. SPDT. List, 60c. NET............350 29-103. Type 13. Shorting. (3PST) List, 60c. NET 350 29-104. Type 14. Shorting. (4PST) List, 60c. NET 350

EXPLANATION OF MALLORY TAPERS:

A modified log, left-hand taper in the carbon unit; semi-log in W.W. nnit. For audio or ant. shunt circuits. A right-hand log taper in the carbon unit; semi-log in the W.W. unit. For series circuits, such as cathode voltage controls.

Linear taper. Used where the voltage changes proportionately to the degree of rotation.

Modification of regular linear taper IV above.

A left hand taper found only in wire-wound controls. Useful in combined antenna and bias control circuits. TAPER I: TAPER II: TAPER IV:

TAPER IV A: TAPER VII:

UNIVERSAL "TRP" TAPPED CONTROLS

Stock No.	Mfr's. Type	Res. Ohms	Tapped at Ohms	Stock No.	Mfr's. Type	Res. Ohms	Tapped at Ohms
29-120	TRP601	40M	8M	29-132	+TRP614	350M	70M
29-121	TRP602	60M		29-133	TRP615		900M
29-122	TRP603	250M	110M	29-134	TRP616		60M
29-123	TRP604	350M	20M	29-135	TRP617	60M	12M
29-124	TRP605	350M	70M	29-136	TRP618	2 Meg.	250M
29-125	TRP606	500M	100M	29-137	TRP619	500M	100-200M
29-126	TRP607	500M	225M	29-138	TRP620	2 Meg.	900M
29-127				29-139	*TRP621	21/4 Meg.	250-500M
29-128	‡TRP609			29-140	TRP622	44M	7-14M
29-129				29-141	TRP623	250M	50M
29-130			15M	29-142	TRP624	21/4 Meg.	250-500M
29-131	TRP613	2 Meg.	400M	1000			

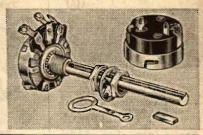
*No provision for switch; if switch is desired use TRP 624. †Has slotted shaft for auto sets. Special taper for fader service. Others are taper I. NET EACH (Less switches. Average shpg. wt. 5 oz.)...

880

NEW MIDGET TYPE CONTROLS

A new series of midget replacement volume. controls for use where special shafts and couplings are unnecessary. Efficiently built, compact and rugged. Snap-on type switches, listed below, easily attached. ½" deep, 1½6" dia.; 3" shaft. Wt., 5 oz.

29-154. Specify Type Number and Value When Ordering. 59c



Ohms	Туре	Taper	Ohms	Туре	Taper	Ohms	Туре	Taper
5000	M R14	IV-A	50000	M R34	II	250000	M R45	II
	M R18		50000	M R35	IV	500000	M R48	1
	M R19		75000			500000	*MK401	I
	M R20		75000			500000		IV
	M R21		100000	M R39	I	750000		I
	M R22		100000		H	1 Meg.		I
	M R24		100000		IV		*M K402	I
	M R28		150000		I	2 Meg.		I
	M R29		250000		I		*M K403	I
50000	M R33	I	250000	*M K400	I	3 Meg.	M R57	I

*Have 3" universal knurled shaft for push-on type knobs.

MIDGET SWITCHES FOR "MR" & "MK" CONTROLS

29-200. Type M26. Single Pole Single Throw. NET. 29c 29-201. Type M27. Double Pole Single Throw. NET. 35c 29-202. Type M28. Single Pole Double Throw. NET. 35c

SPECIAL SINGLE "SRP" CONTROLS

These controls have special mechanical or electrical features for receiver requirements which cannot be met with universal type controls. Consult your Mallory Encyclopedia for correct selection. Wt., 5 oz.

Mfr's. Type	Resis. Ohms	Mfr's. Type	Resis.	Mfr's. Type	Resis. Ohms
SRP133	2M	SRP245	32M	SRP274	10M
SRP134	4500	SRP251	250M	SRP275	500M
SRP138	450	SRP252	500M	SRP276	3M
SRP139	550	SRP253	400	SRP277	2M
SRP141	1200	SRP254	3500	SRP282	350M
SRP142	2900	SRP255	15M	SRP284	100M
SRP144	2M	SRP256	10M	SRP285	500M
SRP145	2M	SRP257	3M	SRP286	250M
SRP152	60	SRP258	15 M	SRP287	5M
SRP153	13M	SRP260	1M	SRP288	100M
SRP154	50M	SRP261	100M	SRP289	50M
SRP160	3200	SRP262	1500	SRP290	1 Meg.
SRP170	75M	SRP263	32M	SRP291	750M
SRP179	125M	SRP264	650	SRP900	20M
SRP185	1500	SRP266	600	SRP901	10M
SRP188	32M	SRP269	10M	SRP960	800
SRP213	250M	SRP271	150	SRP961	10M
SRP216	500M	SRP272	300	SRP962	250M
SRP223	1M				

29-215. Specify Type Number and Value When Ordering 88c Less switch. Use standard switches at left. NET EACH......

29-300. SRP239. 450 Ohms. Vol. Strip } EACH 29c

29-302. SRP273. 500,000 Control with Switch. EACH\$ 1.18

SPECIAL DUAL "DRP" CONTROLS
Consult your Mallory Encyclopedia for the dual control you require and then order from this listing. Average shpg. wt., 8 oz.

	Resist	ance		Resis	tance	Turne	Resistance	
Туре	Front	Rear	Туре	Front	Rear	Туре	Front	Rear
DRP114	250	5 M	DR P241	5M	150M	DR P306	See b	elow
DRP115	3800	3800	DR P242	10M	500M	DRP308	50M	50M
DRP116	25700	10000	DR P243	3M	750M	DRP309	12M	65 M
DRP117	500	2500	DRP244		6M	DR P310	25M	25M
DRP119		10M	DR P245		3 Meg.	DR P311		250M
DRP122	645	10M	DR P246		50M	DR P312	75M	500M
DRP169	7500	10M	DR P250		1M	DR P313		500M
DRP221	10M	100M	DR P301		2500	DR P314		2500
DRP222		32M	DR P302		250M	DR P316		2500
DRP232			DR P303		100M	DRP317		IM
DRP239		25M	DRP304			DR P318	250M	3Meg
DRP240	250M	10M	DRP306	25M	25M			

DRP311 is tapped at 160M ohms.

29-315. Specify Type and Value. Less switch. Use standard switches at left. NET... \$1.47

29-375. DRP306. Front 5M, Rear 10M; with switch......\$1.76

Mallory Radio Service Encyclopedia—4th Edition

Your replacement part worries are over when you use the Mallory Encyclopedia. Over 400 pages of receiver listings, covering thousands of models. Gives tube complements and service notes, also volume control, vibrator and condenser requirements. Includes all original factory part numbers and all Rider manual references. Wt., 2 lbs.

37-500. NET



ME CONTROL

IRC ACCESSORIES

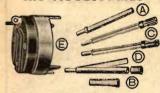


Fig. E. Standard attachable SPST and DPST switches for use with IRC Volume Controls, type "CS," "D" and "W." Av. wt., 1 oz.

No.	Туре	For	EACH
30-000 30-002 30-004	SPST	"CS" "D" "W"	29.
30-001 30-003 30-005	DPST	"CS"	35.

SPECIAL SHAFTS FOR TYPE D CONTROLS

30-015. Fig. Radios. 314 long. Fig. B. For Auto 4 long. 21c NET

Types below for push-on knobs. 30-016. Fig. C. Split knurled end. Length attached is 4".

30-017. Fig. D. Plain slotted end. Length attached is 4". 15c NET EACH.

TYPE W WIRE-WOUND CONTROLS



Wire-wound controls with positive con-tact between terminal and

terminal and rootor arm. Resistance value does not change on overload. Precision built with tight uniform windings to insure utmost accuracy. Has linear (or "A") taper. Rated at full 2 watts. Case: 1½" dia. x %6" deep. 3" flatted shaft. Special switches listed above. Wt., 8 oz.

Type	Ohms	Туре	Ohms
W6	6	W200	200
W8	8	W300	300
W10	10	W400	400
W15	15	W500	500
W20	20	W750	750
W25	25	W1000	1000
W30	30	W2000	2000
W40	40	W3000	3000
W50	50	W4000	4000
W60	60	W5000	5000
W75	75	W7500	7500
W100	100	W10000	10000

30-025. Specify Type and Value. Less switch. NET EACH. 59c .59c

TYPE CS AND TYPE D VOLUME CONTROLS



Type C5: dia., 1½"; case depth less switch, ½"; with switch, 27/32"; 3" milled shaft. Easily cut to size.

Type D Midgets: dia., is 1 9/64"; case depth less Type D Midgets: dia., is
1 9/64"; case depth less
switch, 34"; with switch,
25/32"; includes Type A
shaft (at left), 3 13/32" installed. Uses: A—Potentiometer, uniform change; C—
Audio grid or ant. shunt;
D—Grid bias and ant.; F—
Ant. and low current bias; H—Audio tapped for bass compensation.
Switches and special shafts listed at left. Wt.: CS, 8 oz.; D, 6 oz.

Type D

TYPE	CS ST	ANDA	RD		TYPE D	MIDGETS	
Stock No.	Type		Use	Ohms	Stock No.	Туре	
30-070	11-103	100	A	500	30-125	D11-103	0 1947
30-071	11-108	TOTAL (0.50)	A	1000	30-126	D11-108	1
30-072	11-110	1799	A	2000	30-127	D11-110	
30-073	11-112	5.00	A	3000	30-128	D11-112	
30-074	11-113	2/4	A	4000	30-129	D11-113	-
30-075	11-114	1	A	5000	30-130	D11-114	
30-076	13-114		C	5000 7500	30-131	D13-114 D11-115	
30-078	11-115		AA	10000*	30-132	D11-116+	
30-079	13-116	200	Ĉ	10000	30-134	D13-116	I III
30-080	14-116		Ď	10000*	30-135	D14-116t	100
30-081	16-116		F	10000*	30-136	D16-116	
30-082	14-118		D	15000*	30-137	D14-118	TVOT
30-083	16-118	TYPE	F	15000*	30-138	D16-118	TYPE
30-084	16-119	CS Less	F	20000*	30-139	D16-119†	Less
30-085	11-120	Switch	A	25000	30-140	D11-120	Switch
30-086	14-120	100000	D	25000*	30-141	D14-120	EACH
30-087	16-120	EACH	F	25000	30-142	D16-120	EACH
30-088	11-123	100 3 3	A	50000	30-143	D11-123† D13-123†	0.00
30-089	13-123	FO	CD	50000 50000	30-144	D14-123	EO.
30-090	13-125	59c	C	75000	30-146	D13-125	590
30-091	14-125		Ď	75000*	30-147	D14-125	
30-092	11-128	100	A	100000	30-148	D11-128+	
30-093	13-128		C	100000	30-149	D13-128+	26711
30-094	11-129	118	A	200000	30-150	D11-129	T TAS
30-095	14-129	1	D	200000*	30-151	D14-129	
			A	250000	30-152	D11-130	
30-096	13-130	AL I'M	C	250000	30-153	D13-130†	
30-097	14-130		D	250000*		D14-130	
30-098	13-132		C	350000	30-155	D13-132 D11-133†	
30-099	11-133 13-133	2010	A	500000	30-156 30-157	D13-133	1
30-100	14-133		Ď	500000	30-158	D14-133	1500
30-102	13-137			1 Meg.	30-165	D11-137	
	10-101	341	CACCA	1 Meg.	30-159	D13-137+	
30-103	13-139	111111	C	2 Meg.	30-160	D13-139+	
30-104	13-140		C	3 Meg.	30-161	D13-140	
30-105	11-141	- 13 (2.1)	A	5 Meg.	30-162	D11-141	1
20 400	44 449	100	Λ	7 MAGO	20 162	T)11 1/12	

A 7 Meg. 30-163 D11-142 A 10 Meg. 30-164 D11-143 30-106 11-142 30-107 11-143 * Includes 300 ohm 1/2 watt resistor. † Used in 30-295 above right.

TAPPED CONTROLS

			100	MAN THE RESERVE			
30-180	13-130X	1 0	A	250000	30-200	1D13-130Xf	1
30-181	1.8-130X		H	250000	30-201	D18-130X	
30-182	18-132X	Less	H	350000	30-202	D18-132X	Less
30-183	13-133X	Switch	H	500000	30-203	D13-133X†	Switch
		1	Sp.	500000	30-209	D18-133X	
30-184	13-137X	EACH	H	1 Meg.	30-204	D13-137X+	EACH
30-185	VC-539X	- 30	Sp.	1 Meg.t	30-205	DVC-539X	The same
			Sp.	1 Meg.	30-206	D18-137X	
	CALL CAUSE OF	00	Sp.	1 Meg.	30-210	D19-137X	00
30-186	13-139X	000	H	2 Meg.	30-207	D19-137X D13-139X†	000
		1	Sn	2 Meg	30-208	D18-130X	

! Special control for use as fader. † Used in 30-295 above right.

KNIGHT UNIVERSAL MIDGET CONTROLS



Knight universal midget volume controls are suitable for any general replacement purpose. Unusually low-priced. Buy them in quantities for all replacement needs. Knight universal midgets are precision-built, using extra-durable composition elements; with multi-wiping contacts. Have accurate tapers. These controls measure only 1½" diameter. ½" deep, less switch. Have nut sired. Code letter indicates taper: A—Linear taper. B—Antenna & C bias. T—Tone control or audio shunt. Switch type has SPST standard switch. Shpg. weight, less switch, 4 oz.; with switch, 6 oz.

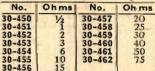
LESS SWITCH	WITH SWITCH
I Ohma EACH Tone	ul No I Ohme I

No.	Ohms	EACH	Taper	No.	Ohms	EACH
30-400	1000		A	30-425	1000	1-24-9
30-401	5000	25.5	A	30-426	5000	3 L
30-402	10000	90.	A B B B	30-427	10000	44c
30-403	15000	746	В	30-428	15000	446
30-404	20000		В	30-429	20000	- The street
30-405	25000	Lots	A	30-430	25000	Lots
30-406	50000	of 5.	ATTT	30-431	50000	of 5.
30-407	100000	26c	T	30-432	100000	40c
30-408	250000	Each	T	30-433	250000	Each
30-409	500000	Lacii	T	30-434	500000	Lacii
30-410	1 Meg.		T	30-435	1 Meg.	

WIRE-WOUND



RHEOSTATS



POTENTIOMETERS

POILMITOMETERS						
30-475 1	6	1 30-480	400			
30-476	10	30-481	500			
30-477	15	30-482	1000			
30-478	20	30-483	1500			
30-479	200					

Riseostats or Potentiam. 26c

TYPE D UNIVERSAL CONTROL CABINET



This sturdy all-metal IRC Volume Control Cabinet is included Free with a special assortment of the popular sizes of Type D Universal Controls. The cabinet, attractively finished in silver, blue and yellow, measures 14½" x 7½" x 4½". Accommodates 20 controls and has 3 handy drawers for switches, special shafts, and other small parts. Assortment includes stock of 18 Type D Controls (sizes indicated by dagger "†" in stock list at left) plus 1—DC-13-133X control for auto sets, 5-SPST and 1—DPST switches, and 5 of the special shafts listed at left. This stock enables you to service up to 75% of all control replacements. You pay only for controls and accessories — cabinet is Free! Wt., 7 lbs. \$14.67

IRC ALL-METAL **POWER RHEOSTATS**

Unique construc tion cuts operating tempera-tures al-most in half; dissi-pate heat more rap-idly. Rat-ings based on tempera-ture prise



on temperature rise with maximum load distributed over entire element. Flat clockspring gives positive contact between rotor arm and center terminal. With arrow pointer knob. 25 W. unit 12½° dia... ½½° behind panel. 50 W. unit 2½° dia... 1½° behind panel. 1 tb.

25 WATT					
Stock No.	Chms	EAICH			
30-250 30-251 30-252 30-253 30-254	6 10 25 50 75 100	\$2.35			
30-255 30-256 30-257 30-258 30-259	250 350 500 750	2.05			
30-260	1500 2500	\$2.65			
30-262	5000	\$2.79			
5	O WAT	Tar again			
30-275 30-276 30-277 30-278 30-279 30-280 30-281	16 50 125 225 300 500	\$2.65			
30-282 30-283	1000 2500	\$2.79			

IRC GUIDE

30-284 5000 30-285 19000

Gives manufac-Gives manufacturers' parts numbers, Rider's Manual Schematic Reference, shaft requirements, etc. Handy size: 81/x11°; 136 pages. FREE with purchase of IRC controls, or sold separately. Wt., 1 tb. 10c

(i.R.c

\$2.94

www.americanradiohistory.com

108

Carbon Kesisto

HANDY KNIGHT INSULATED CARBON RESISTOR KITS



24 Popular Values With Handy Carton

Highest quality Knight Insulated Carbon Resist-ors supplied with handy ors supplied with handy case and mounting strips. 24 commonly used values. Keep a kit on your workbench and another in your tool bag—you'll have the resistor you need when you want it. RMA color-coded, With free Color-Code Guide. Increase your efficiency and profits by having available a substantial stock of these quality resistors.

CONTAIN THE FOLLOWING VALUES:

Unm3	Unms	Onms	Onms	Onms	Onms
200	1000	6000	20000	50000	250000
400	2000	10000	25000	60000	500000
500	3000	12500	30000	75000	1 Meg.
750	4000	15000	40000	100000	2 Meg.

1 WATT KIT

Consists of one each of the above Knight Insulated Resistors in 1 watt size. Wt., 1 ½ lbs. 2-700.

1/2 WATT KIT

Consists of one each of the above Knight Insulated Resistors in 1/2 watt size. Wt., 1 lb.

1/4 WATT KIT

Handy assortment consisting of one each of the above Knight Insulated Carbon Resistors in 1/4 watt size. Wt., 3/4 lb. 81c



12 POPULAR VALUES WITH HANDY HOLDER

An asset in shop or on service calls. Each kit is an assortment of the 12 most popular values of Knight quality insulated carbon resistors. RMA color-coded. To be mounted on sturdy strip supplied. RMA Color-Code chart with each kit. A valuable and handy group of kits. Keep them on hand for all repairs.

STANDARD VALUES

Ohms	Ohms	Ohms	Ohms
200	3000	20000	75000
400	4000	25000	100000
500	6000	30000	250000
750	10000	40000	500000
1000	12500	50000	1 Meg.
2000	15000	60000	2 Meg.

1 WATT KITS

2-720. Consists of one each of the above from 200 to 15,000 ohms. Wt., 10 oz.
2-721. Consists of one each of the above from 20,000 ohms to 2 meg. Wt., 10 oz.
EITHER KIT.

1/2 WATT KITS

2-725. Consists of one each of the above from 200 to 15,000 ohms. Wt., 8 oz.

2-726. Consists of one each of the above from 20,000 ohms to 2 meg. Wt., 8 oz. 48c



RMA COLOR-CODE GUIDE

A handy vest pocket resistor guide for every serviceman, builder, experimenter, etc. Formed from light-weight, attractive plastic material. Has three rotary discs. Quickly indicates value of any resistor color-coded according to RMA standards, either old style with center dot, or new style with colored bands. The guide is marked for "Body," "End," and "Dot" colors. For resistors marked with bands, read from left disc to right in the same sequence that, resistor is coded. Shpg. wt., 2 oz.

2-770. NET.

FREE with order for 24 resistors

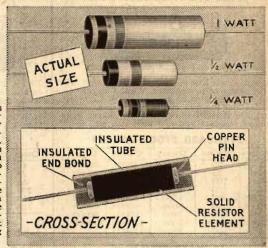
KNIGHT INSULATED CARBON RESISTORS

HIGHEST QUALITY ASSURED ACCURACY

- Average Tolerance Close to 5% Always Quiet in Operation Completely Moisture-Proof Solidly Bonded Axial Leads 1000 Volt Overall Insulation Maintain Permanent Value

- Non-Inductive-No Capacity

Non-Inductive—No Capacity
The finest insulated carbon resistors you can buy. Use these highest quality units with utmost confidence in any RF, or Audio circuit or in high frequency Television or FM circuits. Knight Insulated Carbon Resistors are of solid molded construction with solid cross-section. Impervious to moisture; mechanically strong, non-inductive, quiet in operation. Each resistor is RMA color-coded. The tolerance of every Knight Insulated Carbon Resistor is held within 10% (average close to 5%). 1000 volt overall insulation permits resistors to touch without shorting. Save and profit by using Knight Insulated Carbon Resistors.



The Certified Resistors with the 2-Year Guarantee

Solid carbon body is encased 100% in insulated tube. Breakdown voltage of insulation is 1000 volts. The tinned copper leads contact the carbon body at the pin head, assuring negligible capacity. Knight resistors are absolutely impervious to moisture and extremes of climate.

Electrically and mechanically, Knight resistors are the best that can be made and are guaranteed unconditionally for 2 years. We will gladly replace any Knight resistor that does not give two full years of service when operated at correct wattage ratings. Wt. 3 oz.

STANDARD STOCK RANGES—SPECIFY VALUES DESIRED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
50	400	1750	6000	15000	50000	200000	900000	5 meg.
75	500	2000	7000	17500	60000	250000	1 meg.	6 meg.
100	600	2500	7500	20000	70000	300000	1.5 meg.	7 meg.
150	750	3000	8000	25000	75000	400000	2 meg.	8 meg.
200	1000	3500	9000	30000	100000	500000	2.5 meg.	9 meg.
250	1250	4000	10000	35000	125000	600000	3 meg.	10 meg.
300	1500	5000	12500	40000	1,50000	750000	4 meg.	

L-800. ¼ WATT. Size: ¾ x ½ 4 4 4	1-820. ½ WATT. Size: 5%" x 1/2". NET EACH	1-840.1 WATT. Size: 1" x 1/2". NET EACH	1-860.3 WATT. Size: 2" x 13/2". 10c
0 for 32c	10 for	10 for50c	10 for 80c
00 for \$2.88		100 for\$4.50	25 for \$1.80

YOU SAVE

\$109

Above Quantity Prices Apply for Assortment of Any Values

THIS CABINET IS YOURS FREE-WHEN YOU BUY THIS HANDY ASSORTMENT OF 1 - WATT KNIGHT CARBON RESISTORS

An assortment of 100 Knight 1-watt insulated An assortment of 100 Knight 1-watt insulated carbon resistors in values most widely used for service and experimental work—plus a handy all-steel utility cabinet, as illustrated. Top drawer has no partitions, bottom drawer has 12. Partitions can be removed. Convenient for resistors, condensers, bolts, nuts, washers, etc. Attractively finished in moss-green hardbaked enamel. 11½ long, 9½ wide, 5" high.

2-740. Assortment of 100 Knight I-watt insulated carbon resistors, color-code guide, and all-steel cabinet. Wt., 9 lbs. \$4.50

CABINET ONLY. FREE with order for \$5.00 worth of resistors, assorted values. Wt., 6 lbs. 86-000. IF PURCHASED

WIRE-WOUND RESISTORS



Wire-wound on a bakelite strip with solder lugs at each end. Resistance wire is space-wound; cannot short between turns. Pressed-on solder lugs. Power rating is ½ watt. Use two in series for center tapping. †Use between cathode of rectifier tube and B+ to prevent condenser failure in AC-DC sets. Weight, 3 oz.

Ohms	Ohms	Ohms	Ohms	Ohms
1	6*	20*	50+	500
2	8	25	100*	600
3	10*	30	200*	700
4	15*	40*	400*	1000

1-900. Specify Values Desired. 10 FOR 63c, EACH.

CENTER-TAPPED RESISTORS

Ideal for filament or hum balancing circuits. Wire-wound on flexible fiber strips. Supplied in values marked (*) above. Wt., 3 oz. 1-920. Specify Values Desired. 8c

EAGLE PLUNGER LEAK



Adjustable grid-leak. Covers entire usable range up to 50 megohms. Standard mounting. Fine-pitch screw-threaded plunger permits easy, accurate adjustment. Wt., 3 oz. 25c.

MUTER CANDOHM RESISTORS



Candohm resistors can be quickly and inexpensively repaired by connecting a suitable Zipohm resistor across any open section (see page 110)—or we can supply an exact duplicate of any original Candohm resistor you wish to replace. Give all numbers on original part, and make, model and tube line-up of receiver. Please send \$1.00 deposit with your order; shipment will be made C.O.D. for any balance due. Minimum charge for exact duplicate Candohms is \$1.00.

Finest Quality RESISTO

KNIGHT ADJUSTABLE WIRE-WOUND RESISTORS



A high-grade line of husky resistors that will take plenty of punishment. Wound on ceramic tubes; made to rigid specifications. Complete with slider lug and mounting brackets. Stock and use Knight resistors — the finest wirewound resistors you can buy. Av. wt., 6 oz.

STANDARD STOCK RANGES

Ohms	Ohms	Ohms	Ohms	Ohms
1	50	600*	4000	20000
2*	75	750	5000	25000
3	100	1000	7500	30000
5	150	1250	8000*	40000
7.5*	200	1500	8500*	50000
10	250	2000	9000*	60000
15+	300*†	2500	10000	80000
20*	400*	3000	12000	100000
25	500	3500t	15000	Contract Charles

10 WATT RESISTORS

1-500. Available in all values shown from 1 to 10,000 ohms. Specify values when ordering. Size, 13/4×3/8".

35c

25 WATT RESISTORS

1-520. Available fro		
cept those marked *.	Specify	The state of the s
ordering. Size, 2x3/4".		48c

1-520. Available from 7,500 to 15,000 ohms, except those marked †. Specify values when ordering. Size, 2x¾". NET EACH...... 52c 1-520. 20,000 and 25,000 ohms. EA...61c

50 WATT RESISTORS

1-540. Available from 5	
cept those marked *. Sp	the second of the second of the second
ordering. Size, 4x3/4".	76c

NOTE: For 100 and 200 watt adjustable wire-wound resistors see listing on pages 111, 150.

CENTRALAB RESISTORS



CERAMIC TYPE UNITS

Patented, ceramic-coated, carbon resistors, with molded bakelite insulated caps, assuring dependable, long-life operation. Resistance core is completely covered with shock-proof ceramic material, providing great strength and maximum protection against heat and hamidity. Leads are metal-spray bonded to the resistance material at extreme ends only, for uniform distribution of resistance and load. The result is a resistor of low noise level and constant value, over a wide frequency and voltage range. Completely insulated; will fit into limited space without clanger of shorting to chassis or parts. RMA color-coded. Tolerance ±10%. Wt., 3 oz.

STOCK RANGES-SPECIFY VALUES

		F- 10 / 10 / 10		The state of the s
Ohms	Ohms	Ohms	Ohms	Ohms
100	1200	10000	60000	1 meg.
200	1500	12000	75000	1.5 "
300	2000	15000	100000	3 "
350	2500	17000	125000	3 "
400	3000	20000	150000	4 "
500	4000	25000	200000	5 "
600	5000	30000	250000	6 "
750	6000	40000	300000	7 "
800	7500	45000	400000	8 "
900	8000	50000	500000	9 "
1000	0000	55000	750000	10 0

1-600. ½ Watt 1-620. 1 Watt Type 710. 10c NET EACH. 12c

KNIGHT WIRE-WOUND **POWER RESISTORS**



Finest power resistors, wire-wound on a ceramic core. For radio, electrical and industrial applications. Coated with a heavy protective cement. All units are clearly marked. Hollow cores provide maximum heat dissipation, 13% tinned leads. Shpg. wt., 4 oz.

SPECIFY VALUES DESIRED

Ohm	Ohm	Ohm	Ohm	Ohm	Ohm
1	25	250	1500	7500	40000
2*	50	400	2000	10000	50000
5	75	500	2500	15000	60000+
10	100	750	3000	20000	70000+
15*	150	1000	4000	25000	80000†
20*	200	1250	5000	30000	100000†

10 WATT SIZE. 13/4 x 5/16"

1-560. In all values except those marked t. Specify values when ordering. 17c17c

20 WATT SIZE. 2 x 1/2"

Values 60,000 to 100,000 ohms. 1-580.

SPRAGUE KOOLOHM RESISTORS



Wire-Wound. Turns are fully insulated. Cannot short between turns and cause noise or lowered resistance. Red dot at end changes to brown when resistor is overloaded. Changes back to red when load is corrected. Can be mounted against chassis without shorting. Ceramic form. Accuracy, ±5%. Av. wt., 3 oz.

STOCK RANGES AVAILABLE

Ohms	Ohms	Ohms	Ohms	Ohme
5	100	800	4000	15000
10	150	900	5000	17500
15	200	1000	6000	20000
20	250	1250	7500	25000
25	300	1500	8000	30000
30	400	1750	9000	40000
40	500	2000	10000	50000
50	600	2500	12500	60000
7.5	700	.3000	14000	70000

SPECIFY VALUES DESIRED

TYPE 5K-5 WATI-1/8x3/8						
Stock No.	Ohms	EACH				
1-640	10 to 5000	18c				
1-640	6000 to 10000	21c				
1-640	12500 to 15000	24c				
1-640	- 20000	26c				
1-640	25000	29c				
1-640	30000	35c				
1-640	40000	44c				
TYPE 1	0K-10 WATT-13	4x3/8"				
4 000 1	E 15000	04-				

1-660 1-660 1-660 1-660 1-660 5 to 15000 17500 to 20000 25000 30000 40000 50000 60000

NON-INDUCTIVE FIXED TYPE 10-NI RESISTORS-10 WATT. 1% x 1/8"

Wire-wound resistors of zero inductance, un-surpassed for television plate-load circuits, etc.

2 mmf. distributed capacity to 50 MC.
1-680. 10. 20, 30, 40, 50, 60, 70, 80, 90, 100,
250, 400, 500, 750, 1000 ohms. 29c
1-680, 1250, 1500, 2000 ohms. EACH. 32c
1-680, 2500, 3000, 3500, 4000 ohms.
EACH35c
1-680. 5000 ohms. EACH 41c
1-680. 7500 ohms. EACH
Specify value and stock no. when ordering

OHMITE "BROWN DEVIL" WIRE-WOUND RESISTORS



Famous "Brown Devil" resistors for all radio and industrial requirements. Accurately rated, Wound on porcelain core. Heavy Vitreous enamel covering protects winding, quickly dissipates heat, affords protection against moisture. 13/4"x3/4". Tinned leads. Wt., 3 oz.

STOCK RANGES—SPECIFY VALUES

Ohms	Ohms	Ohms	Ohms	Ohms
1*	125*	1000	6000	25000
2*	150	1100*	7000	30000
3*	200	1200	7500	35000
4*	225*	1250	8000	40000
5	250	1500	8500*	45000
7.5*	300	1750	10000	50000
10	350	1850t	11000*	55000†
12*	400	2000	12000*	60000+
15*	450*	2250	12500	65000t
20*	500	2400+	13500*	70000+
25	600*	2.500	14300*	75000+
30*	650†	2750t	15000	80000†
35*	700	3000	16000*	85000+
40*	750	3500	17500*	90000+
50	800	4000	18000*	95000+
75	850t	4500	20000	100000+
100	900*	5000	22500*	A CONTRACTOR

10 WATT RESISTORS

Available in all values from 1 to 50,000 ohms except those marked †.

1-700. Values 1 to 10,000 ohms. Specify values desired. RET EACH. 26c 26 1-700. Values 15,000 to 50,000 ohms. Specify values desired. 29c29

20 WATT RESISTORS
Available in all values listed above, except those marked *. Av. shpg. wt., 5 oz. 1-720. Values, 5 to 15000 ohms. Size, 2x ½. Specify values desired.

NET EACH.

1-720. Values, 20000 to 50000 ohms. Size, 2x 41c

NET EACH.

50c NET EACH. 5000 to 100,000 ohms. Size. 2x½". Specify values desired. 65c

OHM'S LAW CALCULATOR



MUTER 5 WATT WIRE-WOUND "ZIPOHMS"



Flat, wire-wound resistors to replace over-loaded carbon units. Impregnated with high-temperature cement. Noiseless, thoroughly in-sulated, and accurate within 5%.

SPECIFY VALUES DESIRED

Ohms	Ohms	Ohms	Ohms	Ohms
100	600	1500	4500	12500
125	700	1750	5000	15000
150	750	2000	6000	16000
200	800	2250	7000	17500
250	900	2500	7500	18000
300	1000	3000	8000	20000
350	1100	3500	9000	22500
400	1200	4000	10000	25000
500	1250			L. CELL

1-740. 5 WATT. Size. 1½x½'. except units rated 12.500 to 25.000 ohms which are 2x½'. With 1½' tinned leads.

IRC "WW4" WIRE-WOUND PRECISION RESISTORS



Ideal for use as meter multipliers and shunts. Accuracy within 1%. Values to 500,000 ohms have lug terminals; size: 1"x%6" dia. Others have knurled nuts; size: 21%6" x%6" dia. Available in odd sizes on special order at cost of next higher value. Wt., 3 oz.

No.	Ohms	NET	No.	Ohms	NET
2-500 2-501 2-502 2-503 2-504 2-505 2-506 2-507	1 10 25 50 100 200 250 500	50c	2-521 2-522 2-523 2-524 2-525 2-526 2-527 2-528	40000 50000 60000 75000 100000 125000 150000 175000	50.79 .79 .94 1.09 1.23 1.38
2-508 2-509 2-510 2-511	1000 1500 2000 2500	53.	2-529 2-530 2-531 2-532	200000 225000 250000 300000	1.38 1.53 1.53 1.68
2-512 2-513 2-514 2-515	4000 5000 7500 10000	59c	2-533 2-534 2-535 2-536	400000 500000 600000 750000	1.76 2.00 2.50 2.65
2-516	12500	65c	2-537	1 Meg. 1.5 Meg.	3.09
2-518 2-519 2-520	20000 25000 30000	79c	2-539 2-540	2 Meg. 2.5 Meg.	5.88 7.35

ALL-METAL RESIST-O-CABINET



FREE With Purchase of Assortments Below

GET IT

Sturdily-built, all-steel cabinet. Silver and blue finish. 4 large drawers with separate compartments for small parts. Size: 11x5½x5½".

RESISTOR ASSORTMENT No. 1

Contains: BT-½, ½ Watt, 1 each: 1000, 5000, 10000, 25000, and 50000 ohms, 1, 25, and 5 megs.; BT-1, 1 Watt, 1 each: 40000, and 75000 ohms, 1, 5 and 2 meg.; 2 each: 1000, 1500, 2000, 2500, 5000, 15000, and 25000 ohms, 1.0 and 2.0 megs.; 3 each: 10000 and 50000 ohms, 1, 25, and 5 meg.; AB 10 Watt, 1 each: 1000, 1500, 2500, and 5000 ohms; 2 each: 10000, 15000, and 25000 ohms, 2 each: 10000, 15000, and 25000 ohms, 2 each: 10000 ohms, Watt, 7 lbs.

2-750. Complete with \$9.68

RESISTOR ASSORTMENT No. 2

RESISTOR ASSORTMENT No. 3

SLIDERS FOR ADJUSTABLE IRC RESISTORS



The new "X" sliders have a silver contact button attached to a steel spring. Eliminates damage and makes positive contact.

NEW "X" TYPE

2-603. For HAA-HOA resistors. NET.15c 2-604. For DHA type resistors. EA. 12c

STANDARD TYPE

2-600. For ABA type resistors. 2-601. For DHA type resistors. 2-602. For EPA type resistors. 2-606. For HAA-HOA resistors. NET...9c

IRC ALL-PURPOSE INSULATED RESISTORS

"BT" METALLIZED AND "BW" WIRE-WOUND TYPES



STANDARD STOCK RANGES-SPECIFY VALUES DESIRED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
0.5	30	400	2250	9000	30000	150000	2 meg.
1	40 50 75 120 150 200	450	2500	10000	35000	200000	3 meg.
2	50	500	3000	11000	40000	250000	4 meg.
3	75	600	3500	12000	50000	300000	5 meg.
5	120	750	4000	12500	60000	400000	6 meg
7.5	150	800	5000	15000	65000	500000	7 meg.
10	200	1000	6000	17500	70000	600000	10 meg.
10	250	1250	7000	20000	75000	750000	20 meg.
20 25	250 300	1500	7500	22500	100000	1 meg.	
25	350	2000	8000	25000	125000	1.5 meg.	

TYPE BT-1/2-1/2 WATT 1-000. Available in all ranges from 250 ohms to 20 megohms. (Below 250 ohms use BW-½ units below.) ½ long. ½6 dia. Specify values when ordering. List, Each, 17c.

TYPE BT-1 - 1 WATT

TYPE BT-2 - 2 WATT 1-040. Available in all ranges from 500 ohms to 20 megohms. (Below 500 ohms use BW-2 resistors listed below.) Size, 134′x5/6′. Specify values when ordering. List, Each, 30c.

TYPE BW-1/2-1/2 WATT 1-060. Available in all ranges from 0.5 to 750 ohms, in standard stock ranges shown above. Size, 5% x3/6'. List, 17c.

TYPE BW-2 - 2 WATT

IRC WIRE-WOUND RESISTORS

High-grade resistors with wire evenly spaced on non-hygroscopic core. Have durable cement coating. All units have heavy terminal lugs except "AB" and "DG" which have strong wire leads. Mounting brackets are supplied with all units of 25 watts and up. Adjustable types are supplied with one slider. Accurate within 5%. Av. wt., 5 oz.



FIXED

SPECIFY VALUES DESIRED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	10	75	300	750	1500*	3500	7000	15000*	40000*
2	15	100*	350	800	2000*	4000	7500*	20000*	50000*
3	20	150	400	1000*	2250	4500	10000*	25000*	60000*
5	25	200	500*	1250	2500*	5000*	12000	30000*	75000*
7.5	50	250*	600	1450	3000*	6000	12500	35000	100000*

FIXED RESISTORS TYPE AB 10 WATT-SPECIFY VALUES

TYPE DG 20 WATT-SPECIFY VALUES

1-140. 20,000 to 50,000 ohms. EACH. 50C 1-140. 60,000 to 100,000 ohms. EA... 65C

TYPE EP 50 WATT-SPECIFY VALUES

41/2' x 3/4". In sizes indicated by *. 71c 1-160. 7.500 to 25,000 ohms. EACH...82c 1-160. 30,000 to 100,000 ohms. EA....94c

TYPE HA 100 WATT-SPECIFY VALUES

6½" x 1½". In sizes indicated by *. Ideal for use as power supply bleeders, and dividers, in amplifiers, transmitters, etc. 1-300, 100 to 5,000 ohms. EACH... 97c 1-300, 7,500 to 25,000 ohms. EA... \$1.15 1-300, 30,000 to 50,000 ohms. EA... 1.29 1-300, 60,000 to 75,000 ohms. EA... 1.47 1-300, 100,000 ohms. EACH... 1.62

TYPE HO 200 WATT-SPECIFY VALUES

10½" x 1½". In sizes indicated by *. Ideal for heavy duty radio and industrial uses. 1-320. 100 to 10,000 ohms. EACH \$1.62 1-320. 15,000 to 100,000 ohms. EA. 1.94

ADJUSTABLE RESISTORS

TYPE ABA 10 WATT-SPECIFY VALUES 13/4" x 5/16". In all sizes up to and including 10,000 ohms. With one slider. 44c

TYPE DHA 25 WATT-SPECIFY VALUES

2½" x %6". In sizes indicated by *up to and including 25,000 ohms. With 1 "X" slider. 56c 1-220. 100 to 5,000 ohms. EACH... 56c 1-220. 7.500 to 15,000 ohms. EACH. 65c 1-220. 20,000 to 25,000 ohms. EACH. 71c

TYPE EPA 50 WATT-SPECIFY VALUES 4½' x ¾'. Available in sizes indicated by *. With one type "X" slider.
1-240. 100 to 5,000 ohms. EACH.... 88c

1-240. 7.500 to 25.000 ohms. EACH. 97c 1-240. 30,000 to 50,000 ohms. EA... \$1.12 1-240. 60,000 to 100,000 ohms. EA. 1.29

TYPE HAA 100 WATT-SPECIFY VALUES

6½ x 1½. In sizes indicated by * except 250 oluns. With one "X" slider. \$1.29 1-260. 100 to 5,000 ohms. EA... 1.47 1-260. 30,000 to 50,000 ohms. EA... 1.62 1-260. 60,000 to 100,000 ohms. EA... 1.76

TYPE HOA 200 WATT—SPECIFY VALUES

10½" x 1½". In sizes indicated by *, except 250 ohms. With 1 type "X" slider. An excellent resistor for general shop and industrial use and for amplifier and transmitter circuits.

1-340. 100 to 10,000 ohms. EACH.\$1.94
1-340. 15,000 to 100,000 ohms. EA. 2.26

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.

THE FINEST ELECTROLYTICS YOU CAN BUY! GUARANTEED FOR 1 YEAR! QUALITY MATERIALS—EXPERT CONSTRUCTION

Quality materials and expert construction have gained for Knight Condensers a national reputation for outstanding efficiency, long life, and trouble-free service. Thousands of Servicemen, ers, and Experimenters everywhere use Knight Condensers exclusively because they have found these units to be absolutely the equivalent of the finest standard makes and yet priced much lower under the famous Knight trade name. They feature sturdy card board containers; waximpregnated inner liner; pure wax-filled carton; etched foil to increase capacity; superior grade cellulose separator; and securely fastened leads. You can depend on Knight brand condensers.

METAL CAN TYPE DRY ELECTROLYTICS



Popular, low-priced dry electro-lytic condensers mounted in metal insulated containers. Have stand-ard stud and nut mounting and insulated lead. *3/4" mounting bole —rest 5/4". †Upright mounting with clamp. Shpg. wt., 6 oz.

525 V.	Surge-450	V. Wkg.
--------	-----------	---------

Stock No.	Mfd.	Size	NET
10-100	*4	41/4×11/2"	38c
10-101	*8	4 4x1 1/2"	42c 63c
10-103	*16	4 1/4x1 1/2"	70c
10-104	*8-8 +8-8-8	4 /4x1 /2"	64c
10-110	8	21/2x1"	42c
10-111	16	3 x1"	70c

WET ELECTROLYTICS



For heavy-duty filter work. Self-healing properties and ability to withstand voltage overloads make these units reliable. For inverted mounting only. Cans are negative. Require 3/4" mounting hole. All units have screw base and are supplied with palnut for mounting. Use these quality condensers for all types of filter work. They are carefully rated for efficient service over a long period of hard use. Shpg. wt., 6 oz.

Stock No.	Mfd.	Peak V.	Size	NET
10-120	8	600	11/2"x43/8"	\$.79
10-121	16	600	11/2"x43/8"	1.05
10-130	4	500	11/2" x43/8"	.41
10-131	8	500	11/2"x43/8"	.49
10-132	10	500	11/2"x43/8"	.55
10-133	12	500	11/2"x43/8"	.59
10-134	16	500	11/2"x43/8"	.69
10-135	18	500	11/2"x43/8"	.77
10-136	25	500	11/2"x43/8"	.87
10-137	30	500	1 1/2" x43/8"	.89
10-138	40	500	1 1/2"x43/8"	.99

"600" DRY ELECTROLYTICS



Developed especially for use in PA amplifiers and for other high-voltage applications. Unexcelled for those exacting service jobs where you simply can't afford to have a condenser failure. They feature extremely low power factor and leakage. Will withstand heavy surge-voltage overloads. Easy to mount. Shpg. wt., 6 oz.

600 Volt Peak-475 V. DC. Wkg.

Stock No.	Mfd.	Size	NET
10-150	4	41/8×11/8× 7/8"	49c
10-151	8	41/8×13/8×11/8"	59c
10-152	8–8	41/8×19/6×11/2"	94c

UNCASED PAPER SECTIONS

Compact paper-cased, wax-dipped. Sealed with high melting point wax. For filter block repair-ing. 6' leads. Can be used to replace defective sections of multiple units. Wt., 5 oz.



	200 V C	LTS	400 VO	LTS
Mfd.	No.	Net	No.	Net
1.0 2.0	10-160 10-161 10-162	24c		30c
.25 .5 1.0	600 VO 10-170 10-171 10-172	20c	10-176	30c

UNCONDITIONALLY GUARANTEED FOR 1 YEAR

Electrically and mechanically, Knight Condensers are the best that can be made and are guaranteed unconditionally for a year. All units accurately rated for safe operation. We will gladly replace any Knight Condenser that does not give one full year of axisfactory performance when operated at correct rated voltage. Simply return the condenser if it does not live up to this guarantee, and we will promptly send you a new one without charge. The Knight name is your assurance of best guaranteed performance at lowest, money-saving prices. Use Knight Condensers and prove conclusively that they are the finest of all condensers available on the market today.

+ 8.M.F.D. 450V.D.C. SURGE VOLTAGE525

"TINY-KNIGHT" MIDGET DRY ELECTROLYTICS

Newly developed dry electrolytics designed to fit the smallest spaces. Full capacity provided by special etched foil. Built for low leakage and to withstand high surges. Can be used to replace much larger dry electrolytics. Hermetically sealed in container with cardboard sleeve. With bare wire leads. Polarity, voltage, and capacity marked. Thoroughly dependable. The ideal electrolytic for general purpose use. Shpg. wt., 4 oz.

10-200
10-202 12 450 1½ **x½** 33c 10-204 20 450 2½ **x½** 34c 10-210 4 350 1½ **x¾** 24c 10-211 18 350 1½ **x¾** 30c 10-212 12 350 1½ **x¾** 30c 10-221 18 250 1½ **x¾** 29c 10-221 12 250 1½ **x¾** 30c 10-221 12 250 1½ **x¾** 33c 10-222 12 250 1½ **x¾** 33c 10-223 16 250 1½ **x¾** 36c 10-223 40 250 2½ **x¾** 36c 10-223 12 150 1½ **x¾** 29c 10-223 12 150 1½ **x¾** 29c 10-223 12 150 1½ **x¾** 29c 10-223 12 150 1½ **x¾** 29c 10-223 12 150 1½ **x¾** 29c 10-233 16 150 1½ **x¾** 20c 10-233 16 150 1½ **x¾** 20c 10-233 16 150 1½ **x¾** 20c 10-233 16 150 1½ **x¾** 20c 10-233 16 150 1½ **x¾** 24c 10-233 16 150 1½ **x¾** 24c 10-233 20 150 1½ **x¾** 24c 10-233 20 150 1½ **x¾** 24c 10-233 20 150 1½ **x¾** 24c 10-233 20 150 1½ **x¾** 26c
10-204 20 450 2½ x½ x½ 39c 10-210 4 350 1½ x½ ½ 1½ 24c 10-211 8 350 1½ x¾ ½ 24c 10-212 12 350 1½ x¾ ½ 26c 10-221 8 250 1½ x¾ ½ 29c 10-221 8 250 1½ x¾ ½ 30c 10-222 16 250 1½ x¾ ½ 36c 10-224 20 250 1½ x¾ ½ 36c 10-224 20 250 2½ x¾ ½ 36c 10-224 20 250 2½ x¾ ½ 36c 10-224 20 250 2½ x¾ ½ 36c 10-231 8 150 1½ x¾ ½ 20c 10-231 8 150 1½ x¾ ½ 20c 10-231 8 150 1½ x¾ ½ 20c 10-232 12 150 1½ x¾ ½ 21c 10-233 16 150 1½ x¾ ½ 21c 24c 10-234 20 150 1½ x¾ ½ 22c 24c 10-234 20 150 1½ x¾ ½ 22c 24c 24c 24c 24c 24c 24c 24c 24c 24c
10-204 20 450 2½*x¹5½* 44č 10-210 4 350 1½*x³½* 21c 10-211 8 350 1½*x¾* 30c 10-212 12 350 1½*x¾* 30c 10-221 8 250 1½*x¾* 20c 10-221 8 250 1½*x¾* 33c 10-222 12 250 1½*x¾* 33c 10-223 16 250 1½*x¾* 33c 10-224 20 250 2½*x¾* 33c 10-224 40 250 2½*x¾* 33c 10-225 40 250 2½*x¾* 34c 10-230 4 150 1½*x¾* 36c 10-231 8 150 1½*x¾* 21c 10-232 12 150 1½*x¾* 22c 10-233 16 150 1½*x¾* 22c 10-233 16 150 1½*x¾* 24c 10-234 20 150 1½*x¾* 24c
10-210
10-211 8 350 176 x34" 24c 10-212 12 350 176 x34" 30c 10-221 8 250 176 x36" 22c 10-221 8 250 176 x36" 22c 10-223 16 250 176 x36" 36c 10-224 20 250 176 x36" 36c 10-224 20 250 276 x76" 36c 10-225 40 250 276 x76" 41c 10-230 4 150 176 x76" 18c 10-231 8 150 176 x76" 20c 10-232 12 150 176 x76" 21c 10-233 16 150 176 x76 x76 20c 10-233 20 150 176 x76 x76 26c
10-212 12 350 1½ x½ x½ 30c 10-220 4 250 1½ x¾ x½ 20c 10-221 8 250 1½ x¾ x¾ 22c 10-222 12 250 1½ x¾ x¾ 23c 10-223 16 250 1½ x¾ x¾ 33c 10-224 20 250 2½ x¾ x¾ 33c 10-225 40 250 2½ x¾ x¼ 26 10-230 4 150 1½ x¾ x¾ 26 10-231 8 150 1½ x¾ x¾ 20c 10-232 12 150 1½ x¾ x¾ 20c 10-233 16 150 1½ x¾ x¾ 20c 10-233 16 150 1½ x¾ x¾ 20c 10-233 20 150 1½ x¾ x¾ 20c 24c 10-234 20 150 1½ x¾ x¾ 22c 24c
10-220
10-221 8 250 174 x36 22c 10-222 12 250 174 x34 33c 10-223 16 250 174 x34 33c 10-224 20 250 24 x76 36c 10-225 40 250 24 x76 41c 10-230 4 150 176 x16 20c 10-231 8 150 176 x16 20c 10-232 12 150 176 x16 21c 10-233 16 150 176 x16 21c 10-233 16 150 176 x16 21c 10-234 20 150 176 x16 22c
10-223 16 250 174 x34" 29c 10-223 16 250 174 x34" 33c 10-224 20 250 274 x74" 36c 10-225 40 250 274 x74" 41c 10-230 4 150 174 x174 20c 10-231 8 150 174 x174 20c 10-232 12 150 174 x174 21c 21c 10-233 20 150 174 x174 24c 10-234 20 150 174 x174 26c
10-224 20 250 2½ x½ x½ 41c 10-225 40 250 2½ x¾ x½ 41c 10-231 8 150 1½ x½ x½ 20c 10-232 12 150 1½ x½ x½ 20c 10-233 16 150 1½ x½ x½ 21c 10-234 20 150 1½ x½ x½ 24c
10-224 20 250 2½ x½ x½ 41c 10-225 40 250 2½ x¾ x½ 41c 10-231 8 150 1½ x½ x½ 20c 10-232 12 150 1½ x½ x½ 20c 10-233 16 150 1½ x½ x½ 21c 10-234 20 150 1½ x½ x½ 24c
10-225 40 250 2½ x½ x½ 41c 10-230 4 150 1½ x² ½ 20c 10-231 8 150 1½ x² ½ 20c 10-232 12 150 1½ x² ½ 21c 10-233 16 150 1½ x² ½ 24c 10-234 20 150 1½ x² ½ 24c
10-230 4 150 176 x1 16 20c 10-231 8 150 176 x1 16 20c 10-232 12 150 176 x1 16 21c 10-233 16 150 176 x1 16 24c 10-234 20 150 176 x1 16 26c
10-231 8 150 1½ x1½ 20c 10-232 12 150 1½ x1½ 21c 10-233 16 150 1½ x1½ 21c 10-234 20 150 1½ x1½ 26c
10-232 12 150 1½ x1½ 21c 10-233 16 150 1½ x1½ 24c 10-234 20 150 1½ x1½ 26c
10-233 16 150 178 x 1 16" 24c 10-234 20 150 178 x 1 16" 26c
10-234 20 150 11/8"x11/6" 26c
10-236 40 150 17/8"x7/8" 29c
10-240 5 50 17/8"x9/6" 20c 10-241 10 50 17/8"x1/6" 22c
10-242 25 50 176"x176" 24c
10-243 50 50 1% "x116" 30c
10-250 10 25 11/4"x5/4" 18c
10-251 25 25 11/8"x5%" 22c

DUAL CARDBOARD TUBULARS

10-260	8-8	450	23/8"x1"	44c
10-261	8-16	450	25/a"x1"	59c
10-265		250	27/8" x3/4"	45c
10-266	16-16	250	23/8"x1"	54c
10-270		200	23/8" x13/16"	41c
10-271		200	23/8" x13/16"	41c
10-272		200	23/8 x7/8"	45c
10-275		150	23/8" x15/16"	45c
10-280	10-10	50	23/8"x5/8"	36c



UNIVERSAL REPLACEMENT DRY ELECTROLYTICS

Excellent for general replacement use. Average sizes: Figure $A-1\frac{1}{6}$ " $x3\frac{1}{4}$ "; Figure $B-1\frac{1}{6}$ " $x3\frac{1}{4}$ "; Figure $C-\frac{1}{6}$ " $x2\frac{1}{4}$ ". *1 $\frac{1}{6}$ " $x4\frac{1}{4}$ ". Wt., 4 oz.

Stock No.	Mfd.	Wkg. V.	Fig.	NET
10-285	8-8	450	A	54c
10-286	8-8	450	В	54c
10-287	8-16	450	A	66c
10-288	8-16	450	В	66c
10-289	16-16*	450	A	79c
10-290	16-16*	450	В	79c
10-300	8-8	200	В	44c
10-301	8-16	200	В	52c
10-302	12-16	200	A	64c
10-303	16-16	200	BCC	58c
10-304	20-20	200	Č	48c
10-310	20-20	150	C	42c
10-315	8-16)	200}	В	68c
40 746	10-10]	25]		000
10-316	8-16)	200)	A	68c
10-317	10-10 [25}	Hilbo	-00
10-317	10-10	35	A	72c
	10-10)	1 33)	THE STATE OF	

CARDBOARD BOX STANDARD DRY ELECTROLYTICS

These **Knight** single and multiple section electrolytic condensers are adaptable to practically any filter and by-pass application. Flanges may be removed without injury to condenser. The 6" color-coded insulated leads along the processor destinition in low the greatest flexibility in mounting. Conservatively rated at 525 DC surge volts; 450 DC working volts. Multiple units have separate sections. Voltage ratings and capacity values are clearly indicated. Wt., 6 oz.



525 VOLTS SURGE-450 VOLTS WKG. SINGLE SECTION

Stock No.	Mfd.	Size, Inches	NET
10-330	2	41/4x15/16x 5/8	26c
10-331	4	41/4x15/16x 5/8	34c
10-332	8	41/4x15/16x 7/8	38c
10-333	10	43/8×13/8×11/4	52c
10-334	16	43/8x17/6x11/2	65c

MULTIPLE SECTION

10-340	4-4	43/8x13/8x11/4	54c
10-341	4-8	43/8×13/8×11/4	61C 60C 99C
10-342	8-8	43/8 x 1 1/2 x 1 7/6 43/8 x 2 1/8 x 1 7/6	60c
10-343	8-8-8	43/8x21/8x17/6	99c

BANTAM SIZE DRY ELECTROLYTICS

The latest perfected development in small electrolytics. Same as standard condensers above except that the foil has been treated to increase surface area, consequently increasing capacity and decreasing overall size. Six inch leads. With tabs for easy mounting in any position. Shpg. wt., 5 oz.



525 YOLTS SURGE-450 YOLTS WKG.

Stock No.	Mfd.	Size, Inches	NET
10-350	2	27/16X 3/4X 1/2	29c
10-351	4	27/6x1 x 9/16	34c
10-352	6	27/6x1 1/8x1/16	40c
10-353	8	2/16x1 /8x1/16	38c
10-360	4-4	2/16X1 16X1	54c
10-361	8-8	2%6x1%6x1%	60c



CARDBOARD TUBULAR DRY ELECTROLYTICS

Cardboard encased electrolytics with 2" bare wire leads. Completely wax-filled. Sizes vary from 2 to 3" long: ½ to 1" diameter. Dependable units for all filter, and bypass applications in set building and replacement. Capacities and voltage ratings are clearly indicated on each unit. Shpg. wt., 4 oz.

Stock No.	Mfd.	DCWkg.V.	SurgeV.	NET
10-365	1	450	525	22c
10-366	2 8 8 16	450	525	260
10-367	8	450	525 250 200	38c
10-370	8	200	250	32c
10-373	16	150	200	38280600
10-377	5	50	75	20c
10-378	10	50	75	26c
10-382	10 5 10	25	75 75 40 40 40	20c
10-383	10	25	40	20c 26c
10-384	25	25	40	26c
10-385	5-5	150 50 50 25 25 25 25 25	40	30c
10-386	10-10	25	40	28c

Deduct 10% on Orders for 10 or More Knight Cardboard Tubular Electrolytics.

QUALITY EQUIPMENT, QUICK SHIPMENT, PERSONAL SERVICE

<u>BY-PASS AND REPLACEMENT</u>



KNIGHT MOLDED BAKELITE MICA CONDENSERS

Compact and genuine bakelite-molded moisture-proof capacitors that will give long trouble-free service. Selected foil-mica stacks are especially treated to insure high Q. low-power factor, and long-life service. Tolerances are rigidly held within 10%. Pigtail wire leads are 11%" long. Thoroughly factory tested at voltages: 1000 Volts DC to .002 mfd.; 750 Volts DC above .002 mfd. Size: 3%" square. Wt., 2 oz.

Deduct 10% on orders for 10 or more of these units. Buy in quantities and save.

No.	Mfd.	EACH	No.	Mfd.	EACH
10-400	.000025	8c	10-412	.0007	TOWN
10-401	.00004	TORKE	10-413	.0008	8.
10-402	.00005		10-415	.0009	
10-404	.0001	6c	10-416	.0015	10.
10-405	.00015		10-417	.002	10
10-407	.00025		10-418	.0025	120
10-408	.0003		10-419	.003	16c
10-409	.0004	8	10-420	.004	18c
10-410	.0005	Oc	10-421	.005	20c
10-411	.0006		10-422 10-423	.006	24c 33c

HANDY KITS OF PERM-A-SEALD PAPER CONDENSERS

Handy Kits save you time and money. Keep them on hand for fast service. Each kit contains 12 of the most popular condensers described at right. Include capacities most often requiring replacement. Condensers mount on sturdy strip supplied. Convenient for portable kit or shop use. Wt., 2 lbs.

	10-54	O. Cons	sists of 3	l each:
Numer.	Mfd.	Volts	Mfd.	Volts
CONDENDER	.001	400 400	.004	600
0	.005	400	.01	600
× 10.65.1	.006	400	.03	600
7	.001	600	.05	600
	YOUR			
7	PRICE.		11.1.10	75c
————	10.54	4 Com	sists of	l analus
- Bress				
		Voits	Mid.	Voits
Que su D	Mfd.			
	.1	200 200	.05	400 400
	.1 .25 .5	200 200 200	.05	400 400 400
	.1 .25 .5	200 200	.05	400 400
	.1 .25 .5	200 200 200 200 200	.05	400 400 400 400
	.1 .25 .5 1.0 .01	200 200 200 200 200 400	.05	400 400 400 400 400

KNIGHT BATHTUB CONDENSERS





Non-inductive, moisture-proof bathtub condensers with metal shell. Designed for long life. Will last for years if operated within rated voltage. Type A: 11%x1x34". Type B: Single, 11%x2x34". Deduct 10% on orders for 10 or more. Shipping weight, 6 oz.

BY-PASS (TYPE A)

Stock No.	Mfd.	Volts	EACH
10-500	.1	200	18c
10-501	.25	200	21c
10-502	.5	200	29c
10-505	.5 .25 .5 .05	300	25c
10-506	.5	300	25c 32c
10-510	.05	400	20c
10-511	.1	400	21c
10-512	.25	400	27c
10-513	.11	400	29c

SINGLE SECTION (TYPE B)

Stock No.	Mfd.	Volts	EACH
10-520	1.0	200	54c
10-521	2.0	200	54c
10-525	1.0	400	45c
10-526	.25	400	27c
10-527	.5	400	30c

KNIGHT PERM-A-SEALD PAPER CONDENSERS

Knight Perm-a-Seald tubulars are specially treated to give efficient, long-lived service. Unexcelled for building or repairing. Non-inductive windings; ideal for RF use. Entire unit is sealed in a wax mold. Prevents breakdowns due to moisture absorption. Tinned leads 2½" long. Average shpg. wt., 3 oz.

FULLY GUARANTEED FOR ONE YEAR

Phenomenal life of these condensers permits this unconditional guarantee. We will replace any Knight condenser that does not give a full year of good service when operated at the correct voltage. Simply return the condenser if it proves unsatisfactory, and a new one will be sent without charge.



Dual Unit-Bracket Supplied



600 Volt Unit



400 Volt Unit

Deduct 10% on Orders for 10 or More Units. 400 VOLTS DC 600 VOLTS DC

Stock No. Mfd. Size EACH 10-450 10-451 10-453 10-453 10-455 10-456 10-456 10-459 10-459 3/8 x 1 3/6" 3/8 x 1 3/6" 3/8 x 1 3/6" 3/8 x 1 3/6" 3/8 x 1 3/6" 3/8 x 1 3/6" 3/8 x 1 3/6" 3/8 x 1 3/6" 3/8 x 1 3/6" 3/8 x 1 5/6" 3/8 x 1 5/8" 3/8 x 1 5/8" .001 .002 .003 .004 .005 .006 .01 .02 .03 .04 .05 60 10-460 10-461 %x15/8 3/8x15/8 10-462 10-463 10-464 10-465 .1

200 VOLTS DC					
10-430 10-431 10-432	.1 .2 .25	1/2×15/8" 1/2×25/12" 9/16×2"	8c		
10-433	1.0	3/4×23/16" 1×23/16"	14c		

Stock No.	Mfd.	Size	EACH
10-480	.001	3/8×13/16"	-
10-481	.002	3/8 x 1 3/16"	
10-482	.003	3/8×13/16"	6.
10-483	.004	3/8×13/16"	Oc.
10-484	.005	3/8×13/16"	
10-485	.006	3/8 x 1 3/16"	100
10-486	.01	3/8×13/16"	7 10
10-487	.02	3/8×15/8*	
10-488	.03	13/32×15/8"	
10-489	.04	1/2×15/8"	
10-490	.05	1/2 x 1 5/8"	86
10-491	.06	1/2×15/8"	
10-492	.1	17/32×2"	10c
10-493	.25	3/4 x 23/16	14c
10-494	.5	1 x23/16"	20c

DUAL UNITS				
Stock No.	Mfd.	Volts	EACH	
10-440	.11	200	14c	
10-441	.2525	200	20c	
10-444	.11	400 600	14c	
10-447	.11	000	24c	

SPECIAL APPLICATION CONDENSERS

AEROVOX PRONG-BASE MIDGET ELECTROLYTICS

Compact, economical units for universal replacements. Can-prongs slip into bakelite mounting washer (for insulating from chassis), or into metal mounting washer (for grounding to chassis). Terminal lugs extend through hole in mounting washer. Each unit hermetically sealed. Common negative. Shpg. wt., 8 oz.

Stock No.	Mfd.	Wkg. V.	NET
13-500	10	450	\$0.44
13-501	20	450	.65
13-502	40*	450	.94
13-503	80†	400	1.44
13-510	30	150	.41
13-515	10-10	450	.71
13-516	20-20*	450	.97
13-520	10~10	250	.62
13-521	20-20	250	.65
13-525	20-20	150	.59
13-526	30-30	150	.65
13-527	15-15x20	250x25	.65
13-530	30-20x20	150x25	.68
13-531	10-10-10*		.91
13-532	10-10x20*		.76
13-538	Metal-Mour		
13-539	Bakelite-Mo	ounting W:	asher 3c

*In 1"x3" can. †13/8"x2". Others are 1"x2". SPRAGUE PAPER REPLACEMENTS

FOR ELECTROLYTICS

DR-METAL CAN

Wkg.V. |Size-Inches | NET

43/8×13/8 43/8×13/8 43/8×13/8 43/8×11/2

Designed for replacing defective electrolytics of the values specified below. Feature low leakage and power factor. No polarity to observe. Ideal for high voltage use. Wt., 6 oz.

\$0.79

SPRAGUE SILVER MICAS

Minimum Q of 1500. Highly stable; not affected by heat. 700 wkg. V. Shpg. wt., 2 oz.



No.	Mfd.	EACH	No.	Mfd.	EACH
15-400	.000005	1	15-410	.0005	21c
15-402 15-403	.00001 .000015 .00002 .000025		15-411 15-412 15-413 15-414	.0007	24c 29c
15-405 15-406 15-407	.0001	21c	15-415 15-416 15-417	.002	35c 41c 53c
15-408 15-409			15-418 15-419		71c 76c

SPRAGUE HIGH-VOLTAGE TUBULAR CONDENSERS



Working voltage, 1600 Volts DC.
Oil-impregnated, wax-filled. Especially designed for all high-voltage applications as in amplifiers, transmitters, etc., for maximum dependability. Excellent for use as vibrator buffer-condensers in auto radio sets. Hermetically sealed and moisture-proof. Wt., 402.

No.	Mfd.	NET	No.	Mfd.	NET
15-430	.0005		15-437		
15-431	.001		15-438	.008	S. 150
15-432	.002	21	15-439	.01	01
15-433	.003	410	15-440	.02	Z c
15-434	.004	1	15-441	.03	
15-435	.005	1	15-442	.04	24c
15-436	.006	1	15-443	.05	26c

MAJESTIC CONDENSER BLOCKS

Exact duplicate of original Majestic blocks in physical dimensions and characteristics. Built for long service. Shipping weight, 5 lbs.

Stock No.		THE RESERVE OF THE PARTY OF THE	-B wagat,	NET
10-550. 10-551.	90, 720,	OBP6 (wil	h roo)	2.35
10-552.	90 (.5)) DI 0 (WI	arrest, ,	45
10-553.	180, 8P6			4.25

We can supply other condenser blocks. Order with deposit giving set make, model number, tube lineup, and factory part number.

15-460 600 | 41/8×13/8×15/6 | \$0.94 600 | 43/8×15/6 | 1.56 8-8

15-450 15-451

No. |Mfd.|

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.

TYPE RP-CARDBOARD



SPRAGUE CONDENSERS



450 VOLT ELECTROLYTICS



TYPE LD

Exceptionally high quality dry electrolytic condensers. Moisture-proof. Wkg. V., 450; peak V., 525. Shpg. wt., 6 oz.

Stock No.	Mfd.	Size-Inches	NET
15-000	4	41/8×13/8×3/4	\$0.44
15-001	8	41/8x13/8x1	.56
15-002	8	21/2x11/8x3/4	.56
15-003	12	4/8x13/8x1/4	.76
15-004	16	4 /8 X1 3/8 X1 1/4	.85
15-006	8-8	416×196×156	.69
15-007	8-8	41/8x1%6x15/6 (4 Leads)	.88
15-008	8-8-8	(6 Leads)	1.29

"LS" METAL-CAN TYPE



May be mounted in any position. Working voltage, 450; maximum surge voltage, 525. Dependable replacements for obsolete can-type capacitors. Excellent for all filter uses. Extremely low power-factor assures minimum leakage. Can negative. Lug terminals for anode connections, except 15-024 has separate positive and negative leads for each section. Supplied with mounting hardware and insulating washers. Shipping weight, 6 oz.

Stock No.	Mfd.	Size-Inches	NET
15-020	8	13/8×47/16	\$0.62
15-021	12	13/8×47/16	.82
15-022	16	13/8×47/16	.91
15-023	8-8	13/8×47/16	.94
15-024	8-8	(4 Leads)	.94



TUBULAR BY-PASS UNITS

Compact tubular condensers. Non-inductively wound. Oil-impregnated. Type TC test voltage, 1200; AA test voltage, 800. Shpg. wt., 3 oz.

AA-400 VOLT			TC-600 VOLT	
No.	EACH	Mfd.	No.	EACH
15-050 15-051 15-052 15-053 15-055 15-056 15-056 15-057 15-058 15-060 15-061	90	.0001 .00025 .0004 .0005 .001 .002 .003 .004 .005 .006 .01	15-100 15-101 15-102 15-103 15-105 15-106 15-107 15-108 15-108 15-110 15-110	9.
15-062 15-063 15-064	173-21V	.03 .04 .05	15-112 15-113 15-114	12c 12c 12c
15-065 15-066 15-067 15-068 15-069	12c 12c 15c 21c 29c	.06 .1 .25 .5 1.0	15-115 15-116 15-117 15-118 15-119	15c 15c 21c 29c 47c

HANDY TC 600 VOLT KITS

DAMPI TO OUG TOET KITS	
Variety of 600 V. tubulars. In handy car	
Stock No. Description N	ET
15-085. 55 mfd. 600 volt units\$1	.25
15-086. 625 mfd. 600 volt units	.98
15-087. 81 mfd. 600 volt anits	.98
15-088. 1505 mfd. 600 volt units 1	.50
15-089. 1501 mfd. 600 volt units 1.	10
15-090. 1502 mfd. 600 volt units 1	.10
15-091. Here is real buying economy. A	pop-
ular, assorted 600 V. Sprague Kit of 33	TC
tubular condensers. Consists of: 2001,	
.002, 3—.005, 5—.01, 5—.02, 4—.05, 8	1 ,
225, 15 mfd. Shpg. wt., 3 lbs.\$3.	50
NET	JU
The state of the s	_



MIDGET DRY ELECTROLYTICS

Guaranteed "mite-size" dry electrolytics. Perfect for replacements. Sized to fit smallest spaces. In sealed metal tubes. Wt., 4 oz.

Stock No.	Mfd.	Wkg.V.	Size	NET
15-170 15-171 15-172 15-173 15-174	8 12 16 20	450 450 450 450 450	11/6X17/8* 13/6X17/8* 15/6X17/8* 7/8X27/8* 15/6X21/8*	32c 35c 44c 53c 59c
15-180 15-181 15-182	4 8 12	350 350 350	%x11/4" %x11/4" %x11/4"	29c 32c 41c
15-185 15-186 15-187 15-188 15-189 15-190	8 12 16 20 40	250 250 250 250 250 250 250	%x1 1/6 5/8 x1 1/6 3/4 x1 1/6 1/4 x1 1/6 1/8 x2 1/6 1/6 x2 1/6	26c 29c 44c 47c 56c
15-192 15-193 15-194 15-195 15-196	4 8 12 16 20	150 150 150 150 150	1/16x17/4" 1/16x17/4" 1/16x17/4" 1/16x17/4" 1/16x17/4"	24c 226c 229c 35c
15-197 15-198 15-200 15-201	30 40 5 10	150 150 50 50	%x17/6" %x17/6" %x17/6" 11/6x17/6"	38c 38c 24c 26c
15-202 15-203 15-205 15-206	25 50 10 25	50 50 25 25	1/16X1 1/6" 1/16X1 1/6" 5/8X1 1/6" 5/8X1 1/6"	32c 41c 24c 29c

DUAL CARDBOARD TUBULARS

15-220	8-8	450	1 x21/a"	62c
15-221	*8-8	450	11/16X31/8"	79c
15-222		450	1x25/8"	79c
15-230		250	3/4×27/8"	62c
15-231	*8-16	250	1x21/8"	82c
15-232	*16-16	250	1x27/8"	97c
15-233		250	1x23/8"	73c
15-240		200	13/16×23/8"	56c
15-241		200	13/16x23/8"	56c
15-242		200	7/8×23/8"	62c
15-245		150	11/16x21/8"	47c
15-246		150	11/16x23/8"	56c
15-247		150	15/16×23/8"	62c
15-248	*20-20	150	1x23/8"	79c
15-249		150	11/16x23/8"	82c
15-255	10-10	50	5/8×23/8"	47c

*Separate positive and negative leads.

HANDY ATOM KITS

Save time and money. A few handy Sprague Atom kits will cover most replacements.

15-260. Special Atom Kit. Six popular 8 mfd., 450 volt Sprague Atoms packed in a handy carton. Shpg. wt., 12 oz. NET..\$1,98

UNIVERSAL "LM" ATOMS



Mount conveniently in any position.
Rugged lugs may be soldered to chassistop, anchored with screws, or extended through chassis-holes and bent. Has separate positive and negative leads. All units are moisture-proofed. Wt., 6 oz.

Stock No.	Mfd.	Wkg. V.	Size	NET
15-270	8	450	3/4×21/2"	\$0.35
15-271	16	450	1/8×21/2"	.53
15-272	8-8 8-16	450 450	13/ = 23/P	.79
15-274		450	13/443/11	1.18
15-280		250	1/8×21/2"	.65
15-281		250	1x3"	.97
15-285			11/8x31/2"	1.21
15-286			1/4×3/3	1.38
15-290		150	1/4×2/2	.35

COMPACT FIXED MICA CONDENSERS



114

Stock	1FM-600 VOLT WKG. UNITS			ck 1FM-6		2FM-30	OVOLT	WKG.
No.	Mfd.	NET	No.	Mfd.	NET	No.	Mifd.	NET
15-130 15-131 15-132 15-133	.0001 .00015 .0002	9c 12c	15-138 15-139 15-140	.0015	18c	15-151 15-152	.00005	9c
15-134 15-135 15-136 15-137	.00035	12c	15-143	.004	32c	15-153 15-154 15-155 15-156 15-157	.0002	12c

"600" ELECTROLYTICS



Reliable metal-can filter condensers for exact-ing PA, power amplifier, and set replacements, 600 V. Peak; 475 Wkg. V. High rating provides extra safety. Heat and moisture resistant. With hardware. Extremelylow powerfactor. Wt., 80z.

CLAMP TYPE AC-FIG. A

Supplied with universal-mounting bracket.

Stock No.	Mfd.	Size	NET
15-300	8	13/8×47/16"	\$0.88
15-301	12	13/8 x 47/16"	1.21
15-302	16	1 1/2 x 4 1/6"	1.35
15-303	8-8	(2 Leads)	1.41
15-304	8-8-8	3 x41/2"	2.35

MOUNTING NUT TYPE SC—FIG. B Universal-mounting. Can may be insulated from chassis. With clamps for upright mtg.

15-320	4 1	1 x3½"	\$0.73
15-321	8	13/8x47/6"	.88
15-322	10	1 1/8 x 4 7/6	1.06
15-323	12	13/8×47/16	1.21
15-324	16	1 1/2 x 4 1/16"	1.35
15-325	8-8	11/2×47/16"	1.41
15-326	8-8	(4 Leads)	11.41

800 VOLT ELECTROLYTICS

Can inverted; screw mounting, 600 Volts Working; for heavy-duty applications.

INVE	RTED TY	PE AP-F	G. C
15-330 15-331	8	13/8×43/8 11/2×43/8	\$1.09

WET ELECTROLYTICS

Heavy-duty, durable units. Built to withstand high peak voltages. Leak-proof. Wt., 8 oz.

TYPE W	C-FIG.	D500 V.	PEAK
15-350	4	1 x315/16"	1\$0.47
15-351	8	1 x47/16"	.56
15-352	8	13/ax315/16"	.56
15-353	10	13/8×315/16"	.62
15-354	12	13/ax315/6"	.68
15-355	10	13/8×315/16	.79
15-356 15-357	10 12 16 18 25	11/4 = 47/4 = "	:85
15-358	30	11/2×41/6"	1.00

WC REG	ULATING	TYPE-300	V. PEAK
15-36 15-36		13/8×315/6" 13/8×47/6"	\$0.68

TYPE WC-600 VOLT PEAK

15-370 8 15-371 16	13/3×47/16 11/2×415/16	\$0.88
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600 V. CARDBOARD CASED

600 V. Peak, 475 V. Wkg. Dry units. Long pushback leads and mtg. flanges. Wt., 8 oz.

TYPE DC-STANDARD UNITS

Stock No.	Mfd.	Size in Inches	NET
15-375	2	2 1/2x 7/2x 7/2	\$0.56
15-376	4	41/ax11/ax 1/a	.68
15-377	8	41/8×11/8×11/8	.79
15-380	8	21/2x13/8x13/8	.79
15-381	4-4	41/8×13/8×11/8	1.06
15-382	4-8	41/8x13/8x13/8	1.18
15-383	8-8	4/8X1%6X1/2	1.29
15-384	8-3	(4 Leags)	1.29

TYPE RC-1000 V. PEAK

Especially designed for public address units, transmitters, and all applications using high voltages. Safe, high capacities obtained by connecting in series 800 Working Volts. Low power-factor provides minimum leakage. Wt., 8 oz.



	Size in Inches	NET
15-390 15-391	13/6×13/4×41/2 13/6×13/4×41/2 13/4×13/4×41/2	\$1.09
15-392	13/4x13/4x41/2	1.62

P.R. MALLORY & CO Inc

CARDBOARD TUBULAR DRY ELECTROLYTICS



Small size single and multiple units for use where space is limited. Ideal for compact table-model table-model and portable sets. Come with 6" flexible leads. Note: Capacities of same voltage are separated by a hyphen;

indicate change in voltage. Shpg. wt., 6 oz.

ST-SINGLE UNITS FIG. A

NET		Type	Wkg.V.	Mfd.	No.
0.35	1/8x23/4" \$ 1 x23/4" 1/16x23/4"	595 596	450 450	12	17-000 17-001
	1 x2 ³ / ₄ " 1 / ₁₆ x2 ³ / ₄ "	596 597	450 450	12	17-001 17-002

2N-DUAL COMMON-NEGATIVE

17-008 8-8	450	518* 1 x31/2" \$	0.62
17-009 8-8	250	516* 1 x23/4"	.50
17-010 40-20	150	514† 15/16×25/8"	.68
17-011 8-8	150	502† 3/4×23/a"	.47
17-012 16-8	150	504+ 13/16x23/8"	.50
17-013 16-16	150	506† 7/8×23/8"	.56
17-014 20-10	150	507+ 1/8×23/8"	.56
17-015 20-20	150	509+ 13/16×25/8"	
17-016 10-10	50	1131 3/4×13/4"	:62
17-017 10-10	25	1111: 5/8×13/4"	.41
The second secon	the same of the sa		

*Figure A. †Figure B. †Type TN cardboard tubular with self-supporting bare-wire leads. Not illustrated.

2P-DUAL COMMON-POSITIVE FIG. B

17-022 16-8 17-023 16-16	150 150	544	1 ×21/2" \$0.65 1 ×21/2" .73 15/16×27/8" .79	
17-024 20-20	150	549	15/6×21/8" :79	

25-DUAL SEPARATE-SECTION FIG. A

	A 4.0 C 7.8	111111111111111111111111111111111111111	APPENDANCE.		
17-027 17-028	8-8	450 450	567	13/8×3" 13/8×33/4"	\$0.79

35-TRIPLE SEPARATE-SECTION FIG. A

				rs commo	
17-031	8-8,	450, 25	579	13/8×33/4" 13/8×33/4"	\$0.97
17-032	8-8-8	450	584	13/8×33/4"	1.09

"OT" OIL IMPREGNATED UNITS



For vibrator buffers and other high voltage uses. Hermetically scaled containers, externally insulated. Removable mounting strap. Shpg. wt., 4 oz.

1600 VOLTS DC WORKING

Stock No.	Mfd.	Туре	Size	NET
17-035	.002	370	11/4×5/9"	26c
17-036	.003	377	11/4×5/8"	26c
17-037	.005	371	11/4×5/8"	26c
17-038	.008	372	11/4×5/8"	29c
17-039	.01	373	11/4 x 5/8"	32c
17-040	.0125	374	13/4×5/8"	35c
17-041	.015	375	13/4×5/8"	35c
17-042	.02	376	13/4×5/8"	35c

2000 VOLTS DC WORKING

17-043	.005	459	11 1/16×1/16"	38c
17-044	.0075	460	1 /8 x 1 /16" 1 /8 x 1 /16"	41c
17-045	.01	461	17/8x1/16"	44c

HEAVY-DUTY CAPACITORS







Provide extra safety for heavy-duty filter applications. Housed in metal containers, Fig. A and B; type 690 and 692 are cardboard with mtg. flanges, Fig. C. Shpg. wt., 6 oz.

No.	Mfd.	Wkg. V.	Type	Fig.	NET
17-055	4	600	690	C	\$1.03
17-056	4	600	691	В	1.09
17-057	8	600	692	C	1.44
17-058	8	600	693	В	1.53
17-059	8	450	684	A	.62
17-060	8	450	685	B	62
17-061	8-8	450	686	B	97



BB" TUBULAR ELECTROLYTICS

Single condensers, excellent for general purpose use and for replacing individual sections of multiple units. Sealed, insulated metal tubes, Bare wire leads. Average shipping weight, 4 oz.

No. | Mfd.|Wkg.V.|Type| Size | NET

No.	Witd.	WKg. V.	lype	DIZO	MEI
17-065	4	450	60	17/8x11/16"	\$0.32
17-066	8	450	61	17/8 x13/16"	.35
17-067	10	450	62	1 7/8 x 1 3/6" 1 7/8 x 1 5/6" 1 7/8 x 1 5/6"	.41
17-068	12	450	63	17/8x15/16"	_44
17-069	16	450	64	17/8x15/16"	.53
17-070	4	350	40	17/8×11/16"	.29
17-071	8	350	41	1 1/8 x 1 1/1 " 1 1/8 x 1 1/1 " 1 1/8 x 1 1/16"	.32
17-072	12	350	42	17/8x13/15"	.41
17-073	16	350	44	1 1/8 x 15/1	.47
17-074	8	250	31	17/8x11/16"	.29
17-075	12	250	33	17/8×13/16"	.38
17-076	16	250	34	17/8×13/16"	.44
17-077	4	150	20	17/8x1/16"	.24
17-078	8	150	21	17/8x1/6	.26
17-079	12	150	22	17/8x11/16"	.29
17-080	16	150	24	1 7/8 x 1 1/16"	.32
17-081	20	150	25	17/8×13/16"	.35
17-082	30	150	26	17/8×13/16"	.38
17-083	40		27	17/ -15/ /	.41
-	11000	150		17/8×15/16"	
17-084	5	50	11	17/8 x1 1/16"	.24
17-085	10	50	13	17/8x1/16"	.26
17-086	25	50	14	1 1/8 x 1 1/6" 1 1/8 x 1 1/6"	.32
17-087	50	50	19	17/8x11/16"	.41
17-088	10	25	12	17/8x1/16"	.24
17-089	25	25	15	17/8×11/16"	.29
17-090	50	25	17	17/8×11/16"	.35
THE RESERVE OF THE PERSON	A			- / 0 - / 10	



"TP" PAPER TUBULARS

Compact size paper tubular condensers, hermetically sealed for long life. Color code shows voltage rating at a glance. Shpg. wt., 4 oz.

600 VOLT DC TYPES

No.	Mfd.	NET	No.	Mfd.	NET
17-100	.0001	1	17-114	.025	12c
17-101	.00025		17-115	.03	12c
17-102	.0005	The second	17-116	.04	12c
17-103	.007		17-117	.05	12€
17-104	.008		17-118	.06	15c
	.001	1000	17-119	.075	15c
17-106	.(0)2	90	17-120	1	15c
	.003	7 G	17-121	.15	18c
	.004	1	17-122	.2	21c
	.005	OME:	17-123	.25	21c
	.006		17-124	.3	26c
17-111	.01	1	17-125	.4	29c
17-112		1 5	17-126	.5	29c
17-113	1.02]	17-127	1.0	47c

400 VOLT DC TYPES

17-140 .0	1	17-149	.25	15c
	15	17-150	.3	18c
17-142 .0		17-151	.4	21c
17-143 .0		17-152	.5	21c
17-144 .0 17-145 .0		17-153	1.0	29c
17-145 .0		17-154 17-155	.0101	
17-147	6 12c	17-156	.0505	24c 26c
17-148 .2	15c		-15-1	200

200 VOLT DC TYPES

17-165 05 17-166 1 17-167 25	9c 17-168 12c 17-169 15c 17-170	1.0 .2525	c
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"WE" WET ELECTROLYTICS

Low power factor, leak-proof, metal-housed, self-sealing units for heavy-duty

17-189 17-190



Stock No. Type Mfd. Peak V. NET 17-180 17-181 17-182 17-183 17-184 17-185 17-186 860 1660 16 4 8 8 12 16 20 30 851 1250 1650 2050 3050

MALLORY RADIO SERVICE ENCYCLOPEDIA



NEW FOURTH EDITION

CARDBOARD CARTON TYPE

Small and compact replacement condensers. In-ternal metal seal prevents damage from excess heat or humidity. With mounting flanges; 8" color-coded leads. Shpg. wt., 6 oz.



CS - SINGLE SECTION 525 V. Peak 450 V. DC Working

No.	Mfd.	Type	Size	NET
17-200 17-201	2 4	130 131	1/2× 3/4×27/16" 5/8× 1/8×27/16"	\$0.38
17-202 17-203	8	133	5/8 x1 x27/6" 1 x11/4 x27/6"	:56

CM-SEPARATE SECTIONS

525	V. Pe	ak. 45	0 V. D	C Work	Ing
17-210 17-211 17-212	4-4 8-8 8-8-8	170 172 175	1 ³ / ₈ ×1 1 ³ / ₈ ×1	1/8 x 2 5/8" x 2 5/8"	\$0.71

300 V. Peak. 250 V. DC Working 17-213 | 16-16 | 164 | 13/8x1 x25/8" |\$1.06

METAL CAN DRY UNITS

Sealed against moisture. With 8" leads, nut, and washer. Avge. shpg. wt., 8 oz.



RS - SINGLE-SECTION

No.	Mfd.	Wkg.V.	Туре	Size	NET
17-220	8	450	213	23/4×1°	\$0.62
17-221	12	450	215	23/4×1°	.82
17-222	16	450	216	31/2×1"	.91
17-223	50	300	208	33/4×13/8"	1.62
17-224	8	250	203	23/4×1"	.56
17-225	12	250	205	23/4×1"	.65
17-226 17-227	30 50	250		31/2×1	.88
11-221	30	25	200	23/4×1"	.62

RM - SEPARATE-SECTION

17-235 4-8	450	261 3x1 3/6"	150.85
17-236 8-8 17-237 8-8-8	450	262 3x13/8"	.94
17-238 8-8	450 250	265 4x13/8° 252 3x13/8°	1.35
17-239 8-8-16	250	257 31/4×13	4 1 28
17-240 8-16-16	250	259 31/2×1	8 1.53

MOUNTING HARDWARE
17-250. Type A-016. Upright 3 terminal connector. EACH. 3c
17-251. Type 104-1. For mounting threaded-neck round can units on chassis. EACH. 6c

MOUNTING CLAMPS

The second second		
Stock No.		NET
17-252.	Ring clamp for 1" round un	it 4c
17-253.	Ring clamp for 13/8" round u	nit. 5c
17-254.	Ring clamp for 11/2" round u	nit. 6c
17-255.	Washer for clamp mtg. 1" c	an 3c

For additional Mallory condenser listings see page 116. ALLIED always carries a complete Mallory stock.

ORY CONDENSERS AEROVOX

MALLORY UNIVERSAL REPLACEMENT CONDENSERS TYPES UR AND SR



ALLIED carries the complete Mallory replacement line. All units are moisture-proof and rated conservatively. Low power factor and high leakage resistance. Capacities of same voltage are separated by a hyphen; comma used to indicate change in voltage. Types 180-194 below are UR series; others are SR. Refer to the 1941 M-Y Encyclopedia for full data (see page 115). We can supply units not listed below. Order by M-V part number. Shpg. wt. 8 oz.

*In cardboard tubes. †In cans. All others in cardboard carton.

No.	Туре	Mfd.	Wkg. V.	NET	No.	Туре	Mfd.	Wkg. V.	NET
17-270		8, 8	250, 300	50.76	17-308		5-5	35	50.44
17-271		3-2-1-1	450	1.23	17-309		30-10	150	.91
17-272		5-25-10	150	.94	17-310	621*	8-16, 5-5	200, 50	1.26
17-273		4-4-4	150	.79	17-311		8-8, 12	350, 25	1.03
17-274		8-8-8, 5-5	200, 25	1.47	17-312	623*	16-2-2.25	450, 25	1.53
17-275	189	8-8-8, 5-5	200, 25	1.47	17-313	624	4-4, 10, 4	300, 150, 25	1.21
17-276		8-8-8-8	250	1.53	17-314		8-8, 5-5	450, 50	1.29
17-277		8-8-8-8	450	1.73	17-315	626	8, 4, 4, 12	450,300,150,25	1,21
17-278		20-20	150	.97	17-316		4.4	450, 150	.62
17-279	193	5-8-16	150	1.06	17-317	628†	8-8, 10	300, 25	1.09
17-280	194*	16-12	200	.91	17-318		6, 4, 10	350, 300, 25	.97
17-290		8-12	300	.91	17-319		16-8, 10	150, 25	1.03
17-291		6-4, 6	300, 25	1.00	17-320		4-12-16	150	1.09
17-292		8, 30	300, 30	.79	17-321		6-4, 16	350, 25	.94
17-293	604	3-5, 6	300, 12	.88	17-322		6-6	250	.68
17-294	605†	8-8	350	.91	17-323		12-8	400	1.03
17-295	606	6-6	350	.79	17-324		12	150	.56
17-296	607	6-4, 6	300, 12	.91	17-325	636t	12-4	150	.65
17-297	608*	65	30	.65	17-326	637*	8-8, 20	350, 25	1.09
17-298	609†	8-8, 25	400, 25	1.23	17-327	638†	8-8	450	.94
17-299		8-8, 25	400, 25	1.12	17-328		8-8	450	.94
17-300	611	8, 8, 25	350, 300, 25	1.09	17-329		16-8,10-10	450, 25	1.71
17-301	612†	8-8, 16-16	350, 100	1.71	17-330	641*	12-8, 8, 10	450, 350, 25	1.50
17-302	613	16-30-16	200	1.62	17-331	6421	8-8	450	.94
17-303		8, 8-8, 12-12	450, 250, 25	1.71	17-332	643+	10	450	.73
17-304		8-8, 8	450, 350	1.32	17-333	644†	12	450	.82
17-305		8-8, 8	450, 350	1.32	17-334	645†	8-8	450	.94
17-306		16-16, 10	150, 25	1.15	17-335	646*	1000	3	1.03
17-307	618	5-20-10, 5	150, 25	1.32	17-336	647*	70	50 AC	.88

AEROVOX ELECTROLYTICS CARDBOARD TUBULAR TYPE PR



Single and dual-section units completely scaled Single and dual-section units completely scaled in sturdy cardboard tubes. For point-to-point wiring jobs where unit is supported by own connections. Ideal for by-pass and filter use. Dual-section units have three leads; single-section units have two leads. Bare wire leads are 2½ inches long. Polarity-indicating markings on tubular cardboard case. Wt., 4 ozs.

No.	Mfd.	Wkg.V.	Size "	NET
13-000	2	450	3/4×21/4	38c
13-001	2 4 8 4 8	450	3/4×21/4	44c
13-002	8	450	3/4×23/4	56c
13-005	4	200	3/4×21/4	38c
13-006	8	200	7/8×21/4	47c
13-007	10	200	7/8×21/4	53c
13-010	5	100	3/4×21/4	32c
13-011	10	100	7/8×21/4	41c
13-012	20	100	7/8×21/4	53c
13-013	25	100	15/16×23/4	56c
13-017	10	50	3/4 x 2 1/4	29c
13-018	10	50	3/4×21/4	38c
13-019	20	50	7/8×21/4	44c
13-020	25	50	1/8×21/4	47c
13-021 13-022	50	50	15/1ex23/4	71c
	5-5	50	7/8 x2 1/4	44c
13-025	5	25	5/8×21/4	29c
13-026	10	25	3/4×21/4	29c
13-027	20	25	7/8×2 /4	35c
13-028	25 50	25	7/8×21/4	38c
13-029		25	11/8×23/4	56c
13-030	5-5	25	1/8×21/4	44c
13-031	10-10	25	7/8×21/4	44c

MALLORY STANDARD "FP" CAPACITORS

Values listed will replace approximately 1000 combinations. Capacities and voltages higher than specified are often desirable and can be used. Sections of equal voltage can be connected in parallel. Section not required may be left unused. Note: Capacities at same voltage are separated by a hyphen; comma indicates change in voltage. With bakelite mounting washers. 8 oz.

FPS-SINGLE UNITS

LL3-3IMOFF OMILA							
Stock No.	Type	Mfd.	Wk. V	Size	NET		
17-360		10	450	2x3/4			
17-364	143	15	450	1x2	59c		
17-361	144	20 40	450	2x1" 3x1"	65c		
17-365	120	20	250	2x3/4"	94c		
17-363	113	30	150	2x3/4	41c		
17-366		100	25	2x1	62c		
	FPD-	-DU/	AL UN	IITS			
17-375		10-10		1 2x1"	71c		
17-376	234	20-20		3x1"	97c		
17-377	217	20-20		2x1"	65c		
17-378	208	20-20		2x1"	59c		
17-379	211	30-30		2x1"	65c		
17-380	214	50-50		3x1" 2x1"	76c		
17-381	202		-		59c		
The state of	FPT-	-TRIP	LE UN	VITS			
17-390	339 20		50,25	3x1"	\$1.03		
17-385	332 10	20	50,25	2x1*	.76		
12 222	440	20		20.00			
17-386	328 15	-10. 3 20	50,25	2x1"	.68		
17-391	389 10	-10-4	50	3x1"	.91		
17-393	200 15	10	50	3x1*			
17-393	390 13	10	30	3X1-	1.03		
17-392	363 40	-20- 2	50	2x13/8"	.94		
17-387	206 40	20	50.25	2x1*	41		
17-387	300 40	20	30,23	ZXI	.71		
17-389	354 20		50	2x1"	.71		

MOUNTING WASHERS—CLIPS					
Туре		3/4" No.			
Bakelite Washers. Metal Washers Mtg. Clips	17-400 17-401 17-402	17-403 17-404 17-405	3c 6c		
WE CAN SUPPLY	ALL MALLO	RY PRODU	CTS		

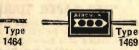
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2×1"

.53

Send for complete literature. Also see page 115 for other Mallory condenser listings. 37-000 Mallory Catalog-Sent FREE.

SILVER MICAS Type



For use where highly stable capacities are required under all operating conditions. Low temperature coefficient—only plus .0022 per degree F. Exceptionally high "O." Practically no capacity drift with time. Sealed in red molded bakelite and externally wax-impregnated for protection against damage and atmospheric changes. Tolerance, ±5%. Wt., 2 oz.

TYPE 1464—1000 V. DC TEST Size: 15/4" square. With tinned wire leads.

No.	Mfd.		No.	Mfd.	NET
	.00075	59c	13-134	.0025	\$1.18 1.32 1.38
13-131	.001	73c	13-135	.003*	1.32
13-132	.0015	88c	13-136 13-137	.004*	1.38
13-133	.002	88c	13-137	.005*	1.47

*These capacities, 600 Volt DC test.

TYPE 1469-1000 V. DC TEST

Size: 29/04x45/04 . With tinned wire leads.							
13-150 .000005 13-151 .00001	29c	13-158	.00015	29c 29c			
13-152 .000025 13-153 .00004	240	13-160 13-161	.00025	29c 44c			
13-155 .00007	240	13-163	.00035	44c 44c			
13-156 000075		13-164	.0005	44c			

UNCASED PAPER UNITS FOR FILTER-BLOCK REPAIR WORK



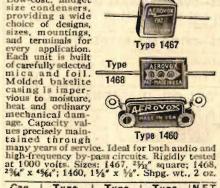
Non-inductively wound, high-grade, uncased sections, neatly shaped and wrapped in black varnish-paper. Ends are pitch-scaled. Each unit moisture-proof impregnated in high melting-point wax. 8* push-back covered wire leads. Excellent for replac-ing defective sections in con-denser blocks. Shpg. wt., 8 oz.

400 VOLTS 13-170, 1.0 Mid. 2x11/6x11/6".	44.
13-171. 2.0 Mfd. 31/4x17/6x1/6". NET	68.
600 VOLTS 13-172. 1.0 Mfd. 3\(\frac{1}{2}\) x1\(\frac{1}{6}\).	53.
NET	79

TYPES 1460, 1467, AND 1468

Low-cost, midget size condensers, providing a wide choice of designs, sizes, mountings, and terminals for

AEROVOX MICA AND PAPER CONDENSERS



Cap.	Type	Type	Туре	NET
Mfd.	1467	1468	1460	EA.
.00004 .00005 .000075 .0001 .00015 .0002	13-050 13-051 13-052 13-053 13-054 13-055	13-071 13-072 13-073 13-074	13-085 13-086 13-087 13-088 13-089 13-090	9.
.00025	13-056	13-076	13-091	120
.00035	13-057	13-077	13-092	
.0005	13-058	13-078	13-093	
.001 .0015 .002 .0025 .003	13-059 13-060 13-061 13-062		13-094 13-095 13-096 13-097 13-098	15c 15c 18c 21c 24c

TYPE 1450 CONDENSERS

Accurate mica-tinfoil condensers in molded bake-lite cases. Handy soldering lugs. 600 volts DC working voltage. Tested at 1000 volts. Size: 1¼x 1¼". Wt., 2 oz.



13-110 13-111 13-112	.0001 .00015 .0002	No. 13-113 13-114 13-115	.00025 .0004 .0005	21c
Stock No.	Mfd. II	NET No.	Mfd	. NET

Stock No. 13-116 13-117 13-118 13-119	Mfd.	NET	No.	Mfd.	NET
13-116	.001	24c	13-120	.005	32c
13-117	.002	26c	13-121	.006	38c
13-118	.003	32c	13-122	.01	47c
13-119	.004	132c	13-123	.02	71c

17-388 351 20-20-

CONDENSE

DRY ELECTROLYTICS METAL-CAN TYPE



TYPE GL WIRE LEAD CONDENSERS

Expressly constructed of finest quality materials for heavy-duty service. Excellent for any type of filter circuit. These rugged metal-can condensers are engineered to give reliable performance. Short neck fits limited space of auto radios, etc. Inverted nutmounting type, flexible 8' colorcoded leads. Multiple sections have separate negative leads. Wt., 8 oz.

GL-600—SINGLE SECTION 800 V. DC Peak—600 V. DC Working

Stock No.	Mfd.	Size	NET
13-180	4	13/8×41/4" 13/8×41/2	\$1.09
13-181	8	13/8×41/2	1.53
GL	450-S	INGLE SECTIO	N

		-450 V. DC V	
13-185 13-186 13-187	4 8 12 16	13/8×3° 13/8×4 13/8×4 13/8×4	50c 62c 82c
13-188	16	13/8×4	91c

2GL450-DOUBLE SECTION

13-195	4-4	13/8x4"	\$0.76
13-196	4-8	13/8x4" 13/8x4 13/8x4	.85
13-197		13/8x4	.94
13-198	8-16	13/8×4	1.18

3GL450-TRIPLE SECTION

13-200	4-4-4	13/8×3"	\$1		2
13-200	8-8-8	13/8×3″ 13/8×41/2		1.4	1



TYPE E UNIVERSAL MOUNTING

Large metal-can dry electrolytics, Supplied with universal mounting ring for upright or inverted mount-ing. Multiple section units have individual sections with common negative grounded to can. 10 oz.

525 V. DC Peak-450 V. DC Working

13-240		13/8 x 3 1/4" 21/2 x 4 1/8 21/2 x 4 1/8 21/2 x 4 1/8	\$0.62
13-241		21/2x41/8	1.35
13-242		21/2×41/8	1.06
13-243		21/2×41/8	1.38
13-244	8-8-8	3 x41/8	1.59
13-245	9-9-18	3 x41/8	2.20

WET ELECTROLYTICS



"PG" INVERTED TYPE

Wet electrolytic condensers of finest quality. Ideal for heavy-duty work and wherever dry units give trouble. Especially popular in circuits subject to excessive peak voltages. Exclusive Aerovox vent permits instant escape of any gas pressure, yet effectively double-seals metal container against leakage of liquid electrolyte. Have self-healing feature for longer life. Inverted mounting. 8 oz.

PG500-500 VOLTS SURGE

Stock No.	Mfd.	Size	NET
13-210	. 4	13/8×31/5"	\$0.47
13-211	6 8	13/8×31/2	.50
13-212	8	13/8×31/2	.56
13-213	10	13/8x31/2	.62
13-214	12	13/8×31/2	.68
13-215	16	13/8×4	.79
13-216	18	13/8×4	.88
13-217	20	13/8×41/2	.88
13-218	20 25 30	11/2x4	.97
13-219	30	1 /2x41/2	1.00
13-220	35	1 ½x4½	1.03
13-221	40	1 1/2 x 4 1/2	1.12

PG600-600 VOLTS SURGE

13-230		13/8 x 3 7/6" 13/8 x 4 7/6 11/2 x 4 15/6	\$0.79
13-232	16 .	11/2×415/16	1.18

TYPE PGM WET ELECTROLYTICS

Compact, rugged units. Similar to Type PG above, but designed for small space. Self-healing. Adequate venting. Shpg. wt., 8 oz.

PGM-500 VOLTS SURGE

12 225 .	0.1	1 21/2 1	F.0-
13-235	0	1 x31/2"	56C
13-236	12	1 x41/2	68c
13-237	16	1 x41/2	56c 68c 79c

WE CAN SUPPLY ALL AEROVOX PRODUCTS Send for Complete Aerovox literature. 37-001. Aerovox Catalog—Sent FREE



TUBULAR PAPER CONDENSERS

WAX SEALED-NON-INDUCTIVE

Sturdy and low-cost conservatively rated cartridge condensers non-inductively wound and sealed in wax-impregnated paper tubes. Ideal for by-pass and all coupling applications where high quality is desired. Ends filled with hard sealing wax afford positive protection against moisture, insures better contact between foil and leads while providing longer life. Has extremely low power-factor and high leakage-resistance. Provided with 2½-inch tinned wire leads riveted to tabs. Tabs are securely fastened to foil. Capacities to meet every need. Stock up at these low prices. Shpg. weight, 3 oz.

400 Volt	Cap.	[600 Volt	
No.	Mfd.	No.	
13-250 NET	.001	13-280	
13-251 EACH	.002	13-281	EACH
13-252	.003	13-282	
13-253	.004	13-283	
13-254 9c	.005	13-284	9.
	,006	13-285	70
13-256	.01	13-286	1000
13-257	.015	13-287	
13-258	.02	13-288	
13-259	.03	13-289	1 2c
13-260	.04	13-290.	1 2c
		13-291.	1 2C
13-262 12c 13-263 12c	.00	13-292.	I 5C
13-26415c	.15	13-293	I 5C
13-265150	.25	13-295.	210
13-266 21c	.5	13-296	210
13-267 290		13-297.	290
13-207290	11.0	13-231.	476
200 Volt	I Con	1000	/alk
200 VOIE	Cap.	1000	JION

200 VOIL	Cap.	TORO	JION
No.	Mfd.	No.	
13-310) NET	.001	13-330	NET
13-311 EACH	.002	13-331	EACH
13-312	.003	13-332	
13-313	.005	13-332	1 4c
13-314		13-334	
13-314 9c		13-335	
13-316	.02	13-336.	180
13-317		13-337.	210
13-318 12c		13-338	
13-31915c			
13-32029c			1

OIL-IMPREGNATED OIL-FILLED TUBULARS

2000 Volts DC working. Designed for vibrator uses, coupling condensers for transmitters, or high volt-age amplifiers and test equipment. Hermetically

sealed against all moisture in leak-proof, insulated metal cans. Short-proof. With mounting strap. Shpg. wt., 4 oz.

Stock No.	Mfd.	Size	NET
13-350	.0075	13/16×23/16"	44c
13-351	.01	13/16×23/16	47c
13-352	.015	13/16x 23/16	47c
13-353	.02	13/16×29/16	50c
13-354	.03	13/16×29/16	50c
13-355	.04	13/16×29/16	53c
13-356	.05	13/16x29/16	56c



CARDBOARD CASED DRY ELECTROLYTICS

TYPE PBS MIDGETS

Space-saver midget units. Heavy Space-saver midget units. Heavy cardboard containers; thoroughly impregnated and sealed. Adjustable mounting brackets and flexible leads. Each section of multiple units has separate color-coded leads. Unit may be mounted in any position or stacked, by overlapping metal flanges. Wt. 6 oz.

TYPE PBS-450

525 V. Peak, 450 V. DC Wkg.

Stock No.	Mfd.	Size	NET
13-370	2	1/2x 3/4x27/16"	\$0.38
13-371	4	%6x1 x27/16	.44
13-372	8	11/16x1 1/8x27/16	.56
13-373	12	11/6x11/8x33/16	.76
13-374	16	17/6x1 1/8x27/6	.85
13-375	4-4	11/4x11/8x27/16	.71
13-376	8-8	17/6x1 1/8x27/16	.88
13-377	8-16	1 1/4 x 1 1/2 x 3	1.12
13-378	8-8-8	1 1/4 x 1 1/2 x 3	1.29

PRS "DANDEES" MINIATURE DRY ELECTROLYTICS



Space-saving and low-priced hermetically-sealed tubular midgets. Excellent for crowded spaces in midgets, AC-DC sets, auto radios, etc. Insulated with special varnished paper jacket. Both ends of jacket spun over can-rim to eliminate shorts. Properly vented for release of gas pressure. Each unit is aged and thoroughly tested. With polarity-indicating red band on end, and 3½" wire leads. Dual units have riveted center-mounting strap. 4 oz.

Stock No.	Mfd.	Wkg.V.	Size	NET
13-385 13-386 13-387 13-388 13-389 13-390 13-391 13-392 13-393	4 8 12 16 20 8-8 *8-8 8-16 *8-16	450 450 450 450 450 450 450 450 450	1 1/6 x 1 1 1/6 1 3/6 x 1 1 1/6 1 5/6 x 2 3/6 1 1/6 x 2 3/6 1 x 2 5/6 1 x 2 1/2 1 x 2 5/8 1 x 3	32c 34c 53c 59c 76c 76c 1.12
13-400 13-401 13-402 13-403 13-404 13-410	4 8 12 16 24 4	350 350 350 350 350 350 250	9/6×23/6 13/6×11/6 13/6×23/6 13/6×23/6 15/6×23/6 9/6×17/6	29c 32c 41c 47c 53c 26c
13-411 13-412 13-413 13-420 13-421 13-422 13-423	8 12 16 8-8 8-16 16-16 *16-16	250 250 250 200 200 200 250	1/16×11/16 1/16×11/16 1/16×23/16 1/16×25/16 1/16×25/16 1/16×25/16 1/16×25/16 1/16×25/16 1/16×25/16 1/16×25/16	29c 38c 44c 56c 59c 68c
13-430 13-431 13-432 13-433 13-434 13-435	4 8 12 16 24 30	150 150 150 150 150 150	%6x1%6 %6x1%6 1%6x1%6 1%6x1%6 1%6x2%6 1%6x2%6	97c 24c 26c 29c 35c 35c
13-436 13-437 13-438 13-439 13-440	40 8-8 8-16 20-20 *20-20	150 150 150 150 150 150	13/6x23/6 13/6x23/6 3/4x25/6 7/8x23/6 1 x21/4	41c 47c 50c 62c 79c 26c 32c
13-451 13-452 13-453 13-454 13-460 13-461	50 100 10-10 10 25	50 50 50 50 50 25 25	1/6×11/6 13/6×11/6 13/6×23/6 5/8×23/6 9/6×11/6	47c 59c 47c 24c 29c
13-462 13-463 13-464	50 100 10-10	25 25 25	9/16×11 1/16 11/16×11 1/16 13/16×11 1/15 5/8×23/16	35c 53c 41c

*Have 4 leads, 2 for each section—less mounting strap. Other duals have common negative.

AEROVOX PAPER REPLACEMENTS FOR ELECTROLYTICS

For replacing standard electrolytics in filter circuits. Also used wherever excessive surges or peaks are present. Will give longer service than electrolytics. 800 volt surge peak—600 volt DC working. No polarity to observe. Both types equipped with 8" leads. Capacities are equivalents. 6 oz. A

PWC 600—Metal Can—Fig. B StockNo. Mfd. Size Inches NET 13-470 13/8 x 41/2 13/8 x 41/2 11/2 x 41/2 \$0.79 1.03 1.65 4 3-471 8 3-472 8-8

PWP 600-Cardboard Cased--Fig. A 13-475 4 4½ x 1½ x ½ 13-476 8 4½ x 1½ x 1½

AEROVOX CARDBOARD DRY ELECTROLYTICS

Universal electrolytics for all general replacement purposes. Separate wire leads for each section. *In rectangular cartons with mounting tabs; all others in eardboard tubes with spade lugs. Conservatively rated. Keep them on hand for AC-DC sets. Shpg. wt., 6 oz.



No.	Mfd.	Wkg.V	Size	Net
13-485	8-8	450	17/6x33/4"	5.79
13-486	8-16	450	17/16×41/4	.97
13-487	12-16	200	17/16x23/4	.91
13-488			17/16x33/4	1.21
	16-12x10-10			1.26
13-491.	*16-16-8x5-5	150-25	1/4X1/4X3	1.44







TYPE BR "BLUE BEAVER" TUBULAR DRY ELECTROLYTICS

Ideal where space is limited. Patented process gives higher voltage breakdown. In cardboard-covered container. 3' leads. Shpg. wt., 4 oz.

Stock No.	Mfd.	Wkg. V.	Size	NET
14-000 14-001	8 16	500 500	1x21/2"	\$0.50 .76
14-010 14-011	8	450 450	5/8 x 1 7/16 3/4 x 2	.32
14-012 14-013 14-014	10 12 16	450 450 450	7/8 x 1 7/6" 7/8 x 2 ' 1/8 x 2 1/2" 1 x 2 1/2"	.32 .35 .41 .44 .53
14-015	20	350	5/8×17/16"	.59
14-021 14-022 14-023	8 12 16	350 350 350	3/4×11/16" 3/4×2" 1/8×2"	:41
14-030 14-031	8	250 250 250	5/8 x 1 1/16 5/8 x 1 1/16	.26 .29 .38 .44
14-032 14-033 14-034	12 16 20	250 250	5/8×2* 3/4×111/6* 3/4×111/6*	.47
14-035 14-040 14-041	40 8	250 150 150	3/8×21/2° 5/8×11/16° 5/8×11/16°	.56 .24 .26
14-042 14-043 14-044	12 16 20	150 150 150	5/8 x 1 7/6" 5/8 x 1 7/6" 5/8 x 1 1/16"	.299 .325 .338 .41
14-045 14-046	30 40	150 150	3/4×2"	.38
14-050 14-051 14-052	5 10 20	50 50 50	5/8×1/16" 5/8×1/16" 5/8×17/16"	.24 .26 .29 .32
14-053 14-054	25 50	50 50	5/8 x 1 1/16	
14-060 14-061 14-062	10 20 25	25 25 25 25 25	5/8 x 1 1/16' 5/8 x 1 1/16' 5/8 x 1 1/16'	.24 .26 .29 .35
14-063	50	25	5/8 x 17/16"	.35

BRL DUAL TYPE BEAVERS

Dual common negative units. Have 8' insulated wire leads. With mounting strap. 5 nz.

rated wil	e icada.	*****	Official at	ap. o oc.
14-070	1 8-8	450	1 x23/4"	\$0.62
14-071	8-16	450	11/16×31/4"	.79
14-075	8-16	250	7/8×23/4"	.62
14-076	16-16	250	1x23/4"	.73
14-080	8-8	150	3/4×21/2"	.47
14-081	16-16	150	7/8×21/2"	.56
14-082	20-10	150	1/8x21/2"	.56
14-083	20-20	150	1/8×21/2"	.62
14-084	40-20	150	15/16:x21/2"	.68
14-090	5-5	50	5/8×113/4"	.44
14-091	16-10	50	5/8×214"	:47
14-095	5-3	25 25	5/8X13/4"	.35
14-096	10-10	25	5/8×13/4"	.41

C-D CAPACITOR MANUAL

256-page book, new 1941 edition, listing replacement condensers for almost every radio. Ask for it with your next order for Cornell-Dubilier condensers.

37-013. C-D Manual-sent FREE





MOLDED MICA CONDENSERS

Built of highest quality components and carefully tested. Have India ruby mica dielectric, special wax-treated stack, brown bakelite case, and positive terminal connections. Tested at 1000 V. DC (on units up to .003 mfd.; 600 V. lest, on higher capacities). Shpg. wt., 2 oz.

Type 5W-11/16"x7/16"x3/16" No. | Mfd | EACH | No. | Mfd. | EACH

	.0000025			.00015	
14-102	.00003	.09	14-106	. 00/02	
14-103	.00005		14-108	.0004	.12
TYPE 1W — 3/4"x3/4"x1/4"					
14-120 14-121			14-126	004	\$0.26



ROUND METAL CAN TYPE DRY ELECTROLYTICS

TYPE EB-FIG. A 525 V. DC Peak-450 V. DC Working

High grade inverted type dry electrolytic con-densers. Internal sections are completely in-sulated from metal container. Single mounting type with insulated wire leads. Exceptional stability, minimum leakage. Av. shpg. wt., 8 oz.

Stock No.	Mfd.	Size	NET
14-140	8	13/8×43/8"	\$0.62
14-141	12	1 /2×43/8"	.82
14-143	8-8	13/2 x 43/4" 11/2 x 43/4" 11/2 x 43/4" 11/2 x 43/4"	\$0.62 .82 .91

TYPE KR "COMPACT"-FIG. B

Compact etched-foil dry electrolytic condensers, easily installed on the smallest chassis. Multiple units have separate leads. Wt., 4 oz.

450 Volts DC Working

14-150	8	1 x21/2"	\$0.62
14-151	12	1 x3/3	.82
14-153	8-8	13/8×34	.94
14-154	8-16	13/8×41/2* 13/8×41/2*	.91 1.12 1.35

600 Volts DC Working

14-160	4	13/ax31/5"	\$1.09
14-161	0	13/8×3/2 13/8×4/2 11/2×4/2	\$1.09 1.53 2.06
	0	17814/2	1.00
14-162	16	11/2×41/2	2.06
		* / E / m	

TYPE EA-FIG. C

Single and multiple section electrolytics in metal containers. Mount in any position by means of clamping rings supplied. Can is common negative. 450 Volts DC wkg. Wt., 8 oz.

14-170	8	13/8×43/8" 21/2×43/8"	\$0.62
14-171	5-15	21/2×43/8"	1.35
14-172	8-8	21/2x43/2	1.06
14-173	8-16	21/2×43/8"	1.38
14-174	8-8-8	3 x41/3"	1.59
14-175	9-9-18	3 x41/0"	2.20
14-176	9-9-18-18	31/2x4/8"	3.09

WET ELECTROLYTICS

TYPE EY-FIG. D. 450 V. DC WKG.

Ideal for all heavy-duty work where dry units give trouble. Low power factor. Self-healing. Stud and nut mounting. Av. shpg. vt., 8 oz.

Stock No.	Mfd.	Size	NET
14-185	4	11/8×41/2"	\$0.47
14-186	6	13/8x4/2"	.56
14-187	8	13/8×41/2"	.56
14-188	10	11/2x4/2"	.62
14-189	11.2	1 /2x4/2"	.68
14-190	-116	11/2×41/2"	:79
14-191	118	1 1/2 x4/2	.88
14-192	20	1 /2x4/2	.88
14-193	25	13/8x47/16"	.97
14-194	30	1 1/8 4 1/2"	1.00
14-195	40	1 1/2 x 4 1/2"	1.12

600 V. DC PEAK-500 V. DC WKG.

14-200	8	13/8×41/2"	\$0.88
14-201	10	13/8×41/2" 11/2×41/2" 11/2×41/2"	1.18
14-202	16	11/2×41/2"	1.18



"SILVER MIKE" CONDENSERS

TYPE 2R. Moliled silver-plate mica condensers for use wherever high stability is required. 1000 Volts DC test. Size: 1/6x%cx/s*. Wt., 2 oz.

190.	EACH			EACH
	\$0.24			50.44
14-351	.2:4	14-35B	.0005	.44
14-352		14-359		.59
14-353 14-354	.29	14-361 14-361	8000	.59
14-355	.29	14-362	001	.73
14-356	.44	14 302	.001	.,,



DT "DWARF" TUBULAR PAPER CONDENSERS

These units are exceptionally reliable, non-inductive, small, all-purpose condensers. They are wax-impregnated and triple-scaled against moisture. High melting-point wax ends add strength and give extra protection to these condensers. Low power factor and high DC resistance make "Dwarf" Tubulars ideal for all RF, IF, and audio by-pass requirements, Conservative DC rating and triple-testing assure thoroughly dependable service. With 2½ tinned leads, Slpg. wt., 3 oz.

400 VOLTS DC WORKING

No.	Mfd,	Mfd. NET No.		Mfd.	NET	
14-230	.01		14-237	.06	\$0.12	
14-231		TELL	14-238	.1	.12	
14-232		Oc	14-239		.15	
14-233			14-240		.15	
14-234		-	14-241		.21	
14-235			14-242	1.0	.29	
14-236	05					

600 VOLTS DC WORKING

No.	Mfd.	NET	No.	Mfd.	NET
14-250	.0001		14-262	.025	\$0.12
14-251	.00025		14-263	.03	.12
14-252	.0005		14-264	.04	.12
14-253	.001		14-265	.05	:12
14-254	.002	10000	14-265	.06	.15
14-255		OC	14-267	.1	.15
14-256			14-268	.2	.21
14-257			14-269	.25	.21
14-258			14-270	.3	.26
14-259			14-271	.5	.29
14-260			14-272	.11	.38
14-261	.02		1		

"DT" VIBRATOR CONDENSERS 2000 V. DC PEAK-1600 V. WKG.

Oil-impregnated and processed paper tubular condensers especially suited for use in vibrator units. Withstand high peaks. Shpg. wt., 4 oz.

No.	Mfd.	EACH	No.	Mfd.	EACH
14-300	.0005		14-309	.007	\$0.21
14-301	.0008		14-310		.21
14-302		200	14-311		.21
14-303		210	14-312		.21
14-304		4	14-313		.21
14-305		THE RESERVE	14-314		.21
14-306		The same	14-315		.24
14-307 14-308			14-316		.26
14-308	.000		174-211		.35

TYPE EH CARDBOARD DRY ELECTROLYTICS

Large electrolytics, expressly designed for heavy-duty op-eration in filter cir-cuits of console radios, Public Ad-



cuits of console radios. Public Address, Amateur transmitters and Industrial applications where larger size units may be used. Rectangular caráboard container has mounting flanges. Have low-power factor and high-leakage resistance. Metall cyclet tabs. With 6' color-coded leads. Each unit is clearly stamped with polarity, capacity, and rating. Highly dependable. Shipping weight, 6 oz.

525 V. DC PEAK-450 V. DC WKG.

Stock No.	Mfd.	Size	NET
14-330	4	41/8×13/8× 1/4" 41/8×13/8×1"	\$0.44
14-331	8	4 /8 x 1 3/8 x 1"	.56
14-332	8-8	41/8x1/16x11/2"	
14-333	8-8	(4 leads)	.88

TYPE JR

Etched foil mois-ture-proof "handy-mike" capacitors in



mike capacitors in silvered cardboard boxes. Compact universal replacements for all radio sets. De sign permits stacking units. Multiple units lave separate color-coded wire leads. 6 oz.

525 DC PEAK-450 V. DC WKG.

Stock No.	Mfd.	Size	NET
14-210	8	21/2x1.1/8x13/16"	\$0.56
14-211	12	21/2x11/8x7/8"	.76
14-212	16	21/2x1 1/4x1"	.85
14-213	8-8	21/2x13/3x11/8"	.88
14-214	8-8-8	21/2x1/4x1/4"	1,29

TAKE ADVANTAGE OF OUR 2% FREIGHT ALLOWANCE

ghest Quality KNIGHT TRANSFORMERS

KNIGHT FILTER CHOKES



Open type construction, with leads. For use in any type of receiver. Excellent for radio servicing, building, and experimental use. Cadmium-plated frame. Average shpg. wt., 3 lbs.

Stock No.	Henries	Ma.	Ohms	NET
62-000	25tt	25	850	68c
62-001	25ff	60	200	65c
62-002	20†	80	250	71c
62-003	151	100	160	89c
62-004	7.2+	120	290	65c
62-005	750tt	5	*3500	89c
62-006	300††	5	*6470	85c

*Plate coupling choke for detector tube. High impedance at audio frequency.

three ance at author requesters, 27/8".

†12"x23/8"x13/8". Mounting centers, 27/8".

†2'x23/4"x15/8". Mounting centers, 33/6".

†2'4"x2'4"x15/8". Mounting centers, 23/6".

KNIGHT MIDGET CHOKES

Ideal chokes for any 4 or 5 tube midget radio. Semi-shielded. Rated 15 Henries at 40 ma. Horizontal mounting. 6" leads. Suitable for AC-DC. Size: 1\%" high, 2" loug, 1\%" deep. Mtg. centers, 2\%". Shpg. wt., 12 oz.

Stock No.	Ohms	Stock No.	Ohms
62-010	200 250	62-014	400 450
62-012 62-013	300 350	62-016	500 550
NET EACH			35

MIDGET UNIVERSAL OUTPUT TRANSFORMER



Compact output transformer for matching impedance of any tube, single or P.P. Tapped secondary matches output impedances from .1 to 54.5 ohms. Ideal for mid-

pact apparatus. Only 1½" x 2" x 1½". Mounts on chassis or speaker frame. Wt., 1 lb. 49c

KNIGHT MIKE TRANSFORMERS OPEN TYPE



For single or double-button microphone. Tapped primary, Open frame. 13% x 11% x 2". Mtg. ctrs., 2½% 11b. 52c

SHIELDED TYPES



62-026. Single-button coupling transformer. Turns ratio, 1 to 64. Impedance ratio, 1 to 4000. For single button carbon mike to tube input. Shpg. wt., 2 lbs.
62-027. Two-button type. To couple any double-button carbon microphone to single grid. Turns ratio, 1 to 45; impedance ratio, 1 to 2000. Shpg. wt., 2 lbs.

NET EACH.

.....89

FILAMENT TRANSFORMERS



type. Pri., 110 V., 60 cycles. For low-power transmitters and receivers. Has 6' color-coded leads. Cadmium-plated frame. Size, 2 x2½ x 1½.' Mtg. ctrs., 21½.''. Shpg. wt., 2 lbs.

62-031. Same as described above, except delivers 6.3 V. at 3 amps. For use with all 6.3 V. unbes and 7 V. loctals with 6.3 V. nominal rating. Size, 2 x2½ x 1½.''. Mtg. ctrs., 21½.''. Shpg. wt., 2 lbs.

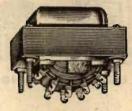
85c
62-032. Same as 62-030 described above.

62-032. Same as 62-030 described above, except delivers 2.5 V. at 3 amps. For use with bells, relays, etc., requiring 2.5 V., 60 cycles for their operation. Pri., 115 V., 60 cycles. Size, 11/8" W., 23/8" H. Mtg. ctrs., 21/16". 65c

ANY TRANSFORMER REBUILT LIKE NEW

Mall old transformer prepaid with \$2.00 deposit. Include data such as model of set, make, and tube lineup. We will return C.O. D. for any balance.

POPULAR KNIGHT POWER TRANSFORMERS



AS LOW AS

Knight, the Champion of low-cost transformers for replacements and for building radio sets, amplifiers, etc. Expertly engineered, built of quality materials for peak efficiency, low operating temperature and long life. Fully guaranteed to conform to all RMA standards.



HALF-SHELL TYPE

Preferred style for building new apparatus. Mounts in rectangular shape hole. Unshielded portion extends below chassis, eliminating danger of shorts and shocks at terminals. Shielding above chassis protected by black enamel finish. Four corner-bolts fasten transformer firmly to chassis. Soldering terminals tinned for ease in soldering leads. With diagram of terminals to simplify installation. A favorite with builders and experimenters.

UNIVERSAL TYPE

Ideal type for radio servicing. Fully shielded. Four mounting-brackets permit mounting the transformer in any position—upright, flush, or on one side, as needed. Fits almost every radio chassis, making it unnecessary to drill new holes. Permits rapid replacement. Husky, well-built units. Black enamel finish protects shells. Heavy-duty five-inch flexible coded leads provide for simple installation. With chart showing terminal connections.

All Knight power transformers have 115 Volt 50-60 cycle primaries with center-tapped plate and filament windings. *These filaments are not center-tapped.

Stock	No. of	NET	Pla	te	Fil.	1	Fil	. 2	Fil.	3	Mtg.	Shpa
No.	Tubes	EACH	Volts	Ma.	V.	A.	V.	A.	V.	A.	Centers	Wt.
62-035 62-036 62-037	5 6	\$0.79 .98 1.13	650	40 45 50	555	2 2 2	6.3	1.6			2 x2½" 2 x2½" 2 x2½"	2 lbs 2 lbs 4 lbs
62-038 62-039	8 to 11		700	100	5	3	6.3	4.0	2.5	4.0	2½x3½″ 2½x3¾6″	5 lbs
		UNIVE	RSAL	TYP	ES F	OR	6.3	VOLT	TUBE	S		

62-040 62-041 62-042 62-043 62-044 101 62-045	to 10 1.82	650 40 650 40 700 70 700 90 700 120 700 150	5 2 5 5 5 5 5 5 5 5 5 3	6.3 1 6.3 2 6.3 2 6.3 3 6.3 4 6.3 4	6 0 5 7 7	2 x2½" 2 lbs. 2 x2½" 4 lbs. 2½x2½" 4 lbs. 2½x2½" 7 lbs. 2½x3½" 7 lbs. 2½x3½" 8 lbs.
	HALF	SHELL TY	PES EC	R 25 VO	IT TURES	

	A 100	HALF	SHELL		ES FU	R 2.5	VUL	IUBE2	- 14 MA	The same
62-046	4	\$0.75	650 1	40 45 50 70	5 2	1 2.5	1*3.75		2 x2½" 2 x2½" 2 x2½"	2 lbs.
62-047	5	.98	650	45	5 2	2.5	5.0		2 x21/2"	2 lbs.
62-048	6	1.10	675	50	5 2	2.5	7.5		2 x21/3"	3 lbs.
62-049	7	1.55	700	70	5 3	2.5	3.5	2.5 *7.5	21/2x31/8"	4 lbs.
62-050	8 to 10	1.10 1.55 1.85	675 700 700	90	5 3	2.5	3.5	2.5 *7.5	23/4×37/16"	4 lbs.
	DESCRIPTION OF THE PARTY OF THE	200	and the same of	-						

	UNIVERSAL	TYPES	FOR 2.5 V	OLT TUBES	MELLI SANG
62-051 4	\$0.95 650	45 5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3.75	2 x2½" 2 lbs.
62-052 5 to	1.19 650	50 5		7.0	2 x2½" 3 lbs.
62-053 8 to	700	90 5		12.5	2½x3½" 4 lbs.

KNIGHT AUDIO AND OUTPUT TRANSFORMERS STANDARD AUDIOS



Ideal for replacement purposes. Open type construction. Size: 22½x 1½. Mtg. centers: 21½6. Shpg. wt., 2 lbs. each. 62-055. Ratho 3½-1. Straight audio. Couples 1 plate to 1 grid.

62-056. 3-1. P.P. Input. 1 plate to 2 grids.

62-057. Push-pull interstage transformer. Couples 2 plates to 2 grids. NET EACH.....

UNIVERSAL OUTPUTS

Primary: 2000, 4000, 7000, 8000, 10000, 14000, 18000 ohms CT. Secondary: .11 to 54.5 ohms.

UNIVERSAL MOUNT G2-070. 10 Watt. For coupling any tube, single or push-pull, to any magnetic or dynamic speaker. Universal mtg. bracket 2" high, 2 \(\frac{1}{2}\)" wide, 1 \(\frac{1}{2}\)" deep. Wt., 2 lbs.



STRAP MOUNTING TYPES

SPECIAL AUDIOS 62-060. 3 to 1 ratio. 15% x2x15%". Straight audio. 1 plate to 1 grid. Mtg. ctrs.: 23%". Shpg. wt., 1½ lbs.

2%". Shpg. wt., 1½ lbe.
62-061. Push-pull in154". Mtg. ctrs.: 2½". 1½ lbs.
NET EACH.
62-062. New York of the street of the str 62-062. New "Tiny" 3:1 Audio. 13/8" H., x13/4". W. Mtg. ctrs., 2". 1 lb. 49c

OUTPUT TRANSFORMERS

For 8 to 15 ohm VC. 2" Mtg. centers. Open frame type construction like units above.

62-065. Single 43, 45, 2A3, 6A5, 25A6, 25A7G. 11/2x11/2x11/4". Shpg. wt., 1 lb. **62-066.** Single 31, 42, 2A5, 6F6, 6N6, 6A4, 6A6. 13/8x11/8x13/4". Wt., 1 lb. 62-067. Push-pull 43, 45, 2A3, 6A5, 25A6, 25A7G. 1½x1½x1¾". Shpg. wt., 1 lb. 62-068. Push-pull 31, 42, 2A5, 6F6, 6N6, 6A4. 1½x1½x1¾". Shpg. wt., 1 lb. NET EACH. 43c

Primary and secondary ratings same as 62-070 above.
62-071.5 Watt. Quality transformers with a convenient mounting strap. Have two screw holes on 2½' centers. With universal primary and secondary. Overall size: 2' W., 1½' H., 1½' D. Wt., 1 lb. NET.

59e.



62-072. 10 Watt. Universal primary and secondary, 2" H., 2%" W., 2" D., 211" mtg. centers. Shipping weight, 2 lbs.

62-073. 12 Watt. Universal primary and secondary, 23% H. 2" W., 1% D., 23% mounting centers. With leads instead of lug terminals. Shpg. wt., 2½ lbs.

UNIVERSAL P.P. INPUTS

To couple any single plate to single or push-pull output tubes. Universal mounting bracket as used on 62-070 is incorporated. Size: 2" x 25% x 15%". Shpg. wt., 2 lbs. 75e 62-074. NET

THORDARSON High Quality TRANSFORMERS















FIG. 2-F

2-F FIG. 2-E

FIG 3-1

FIG. 2-B

FIC 3

FIG. 3-1

FIG. 2-D

COUPLING TRANSFORMERS

Finest quality Thordarson transformers for almost every input, mixer, or line-coupling circuit. Complete information is given in the tabulation below. Consult any tube chart for the impedance of the tube or tubes to be used, then select the proper matching transformer. We can supply all Thordarson transformers. Discount from list, 40/2%. Av. wt., 2 lbs.

TUBE TO LINE OR MIXER (LOW LEVEL)

Stock No.		NET			Secondary
63-000	T14A90	\$1.47	2-F	20,000 CT	500 or 125
63-001	T14A91	1.47	2-F	20,000 CT	200 or 50

MIKE, MIXER OR LINE TO GRID

63-010	T58A37	\$1.32	2-F	200 or 50	100,000
63-011	T55A16	1.62	2-F	200 or 50	100,000 CT
63-012		1.91	2-F	500 or 125	100,000 CT
63-013	T83A78	1.32	2-F	100	400,000 CT
63-014	TIAAGA	1 47	2-R	4 or 8	100 000

OUTPUT COUPLING TRANSFORMERS

Quality output transformers which moet every radio requirement. First four types have tapped primaries to match any single or PP tubes. Others have fixed primaries. Consult any tube chart which lists the output impedance of the tube to be used, then select the proper transformer.

63-025	T61525	\$1.91	2-E	Univ. Single	500
63-026	T61526	2.06	2-E	Univ. PP	500
63-027	T57S01	1.18	2-E	UnivSingPP	Adj1 to 29
63-028	T57S02	1.18	2-B	UnivSingPP	Adj1 to 29
63-029	T67S54	2.35	2-F	5,000	4-8-15-500
63-030	T67S48	2.06	2-F	8,000	4-8-15-500
63-031	T67S52	2,35	2-F	5,800	4-8-15-500
63-032	T67592	2005556	2-F	1,500	4-8-15-500
63-033	T67S51	2.06	2-F	14,000	4-8-15-500
63-034	T65S94	2.35	2-F	8,000	4-8-15-500
63-035	T75S75	2.35	2-F	10,000	4-8-15-500
63-036	T81S01	.88	2-B	10,000 CT	2-4-8
63-037	T84S58	3.53	2-G	3,800	4-8-15-500
63-038	T89S75	2.35	2-F	6,600	4-8-15-500
63-039	T89574	055588550NG	2-F	4,000	4-8-15-500
63-040	T89568	3.82	2-G	3,300	50 to 500
63-041	T17S10		2-F	2,500	2-4-8-500
63-042	T17S11	2.65	2-F 2-F	8,000*	4-8-15-250-500
63-043	T17S12	2.65	2-17	4,300*	4-8-15-250-500
63-044	T17S13	22333333333333333333333333333333333333	2-G	6,600*	4-8-15-250-500
63-045	T17S14	3.53	2-G	5,500*	4-8-15-250-500
63-046	T17S15	3.82	2-G	3,300*	4-8-15-250-500
63-047	T14583	.73 .73 .73	3-B	25,000 CT	3 to 6
63-048	T14584	.73	3- B	8,000	3 to 6
63-049	T14582	.73	3-B	1,500	3 to 6
63-050	T14.581	.73	3-B	1,000 CT	
A Service Control of the Control of			A. 63 600	· 1	4.

*Has third winding for obtaining 10% inverse feed-back.

LINE TO SPEAKER VOICE COIL

Correctly matches line to speaker voice coil. Shpg. wt., 4½ lbs.

63-060 63-061 63-062 63-063	T14580 T76574 T53581 T17517	2.79	2-18	500	2-4-6-8 84 to 250 4-8: or 15 4-8-16-25-50
63-065	T17S18	2.20	2-D	500 to 3000	.06 to 8 or. 12 to 16

CLASS "B" and "AB" DRIVERS

Quality driver transformers. Have correct primary-to-secondary ratio, providing good regulation and minimum driver distortion. For use with tubes listed below or tubes having similar input and output impedances. Consult tube manual for plate impedances. Av. wt. 2½ bs.

Consuit tui	be manual	tor prace i	moeur	inces. Pry. W.L., A	72 105.
63-075	T67 D50 T67 D47	\$1.62	2-F 2-F		1-79 Class "B" 1-6N7 or 53 "B"
63-077	T67 D78 T81 D42	1.76	2-IF 2-IF		2-46, 59 or 6L6 2-6F6 Triode,
63-079	T84 D59	1.91	2-F	2-6C5, 6N7	2-42 or 2-2A5 Pentode 2-6L6 or 6V6
Halla Miles	-0130000		The same of	2-6A6, 53*	6N7,6A6or53
63-080	T17 D03	2.65	2-IF 2-IF	1-6F6 Triode* 2-6F6*	4-61.6 "AB2"
63-082	T81 D52 T14 D93	1.91	2-JF 3-JB	1-6C5, 76, 56 1-76 Triode	2-6F6, 42 or 2A5 1-6A6, 6N7 "B"
63-084	T78D46	88.	2-IB	1-30	1-1J6G, 1-19, 2-30 "B"
63-085	T74D32	1.91	2-F	2-6C5, 76, 56	2-6F6, 42, 2A5

*Has split secondary for inverse feed-back.

120

THE REAL PROPERTY.	TI.	RANSCE	Av. wt., 1 lb.		
63-100 63-036 63-102 63-103 63-104	T54D63 T81S01 T68S06 T72S58 T72A59	\$1.32 .88 1.47 .97	2-F 2-B 2-F 2-B 2-B	20,000 10,000 CT 7,000 10,000 5,000-200	1-19 or 2-49 "B" 2-4-8 10 or 2,000 2,000-50 100,000

FILTER CHOKES

Inductances are given as ratings under actual working conditions.

Stock No.	Type	NET	Fig.	Hys.	Ma.	Ohms	Size Inches	Lbs
63-115	T18C92	50.88	3-B	22	35	405	31/6x21/8x2	2
	T47 C07			12	75	410	35/8x2 x21/4	22233
63-117	T68 C07	1.18	2-B	15	85	375	33/8x21/2x3	2
63-118	T57 C53	1.18	2-B	10	110	200	33/8x21/2x3	3
63-119	T57 C54	1.32	2-F	10	110	200	31/8x21/2x3	3
63-120	T17 C00			12	150	231	313/6x3 x31/2	4
63-121	T13 C26	.53	3-B	10	40	530	23/8x15/8x13/8	1
63-122	T13 C27	.65	3-B	10	40	475	213/sx15/8x15/8	1
63-123	T13 C28	.71	3-B	10	65	460	3 x13/4x2	1
63-124	T13 C29	.94	3-B		85	250	33/6x2 x2	2
63-125	T75 C49	.88	3-B	9 8 8	120	290	31/16x2 x2	2
63-126	T13C30	1.18	2-B	8	150	200	33/8x21/8x3	3
63-127	T67 C49	1,62	2-F	5	200	80	313/6x3 x31/2	2 2 3 4 3
63-128	T16C07	1.32	2-F	15	85	375	31/8x21/2x3	
63-129	T44 C02	.88	3-B	12	80	405	33/16x2 x2	2 2 8
63-130	T53 C19	.88	2-B	8	120	290	27/8x2 x23/8	2
63-131	T57 C51	.88	2-B	6	80	138	27/8x21/4x21/8	2
63-132	T75 C51	2.94	2-G	13	250	121	33/4×31/16×415/16	8

PLATE COUPLING CHOKES

Steck No.	Туре	NET	Fig.	Ma.	Hys.	Size Inches	Lbs.
63-146	T52 C98	51.18	2-F	.5*	700	27/8×17/8×23/8	2
63-145	T29 C27	1.03	2-B	.5*	500	27/8×13/4×23/8	2
63-147	T37 C36	1.18	2-F	5.	300	27/8×21/8×23/8	2
63-148	T67 C46	1.03	2-B	5.	300	27/8×21/4×23/8	2
63-149	T68 C08	1.03	2-F	35.	22	23/4x21/8x23/8	2
63-150	T14C70	1.47	3-Y	0.+	22	1%6x1%6x21/4	1/2
63-151	T74C30	.88	3-B	15	42	31/16x13/4x2	í
63-152	T93 C20	1.62	2-B	.5*	250	27/8x21/8x23/8	2

*For use as plate inductance with S. G. tubes, Max. Cap. 8 ma. †Used in Thordarson tone control circuit with Thordarson R1068 dual tone control 63-165. NET.......\$1.47

UNIVERSAL OUTPUT TRANSFORMERS

PRIMARY: SINGLE OR PP. SECONDARY: .1 TO 29 OHMS

Steck No.	Туре	NET	Fig.	Primary	Size Inches	Lbs.
63-027	T57S01	\$1.18	2-E	8 Watts	27/8 x 21/2 x 23/8	2
63-171			3-E	8 Watts	21 1/6x2 x15/8	1
63-172			3-B	S Watts	213/16x15/8x15/8	1
63-173			3-E	10 Watts	213/6x2 x15/8	1
63-174	T13541	1.62	2-E	20 Watts	33/8×21/2×3	3

PRIMARY: CENTER-TAPPED. SEC .: 6 TO 12 OHMS

63-175 | T33599 | \$0.88 2-B | 8,000 ohms C.T. | 21/8x21/8x23/8 | 2

PRIMARY: SINGLE TUBE. SEC.: 1, 2, AND 4 OHMS

C.H.T. TRANSFORMERS

Ideal for use in receivers, transmitters, etc., or wherever quality of components is an important factor. Designed for varying climatic conditions. Listing below is representative. We can supply all C.H.T. type transformers and amplifier chokes from stock. For style of case refer to figure 3K on page 121; has four-hole mounting.

No.	Туре	NET	No.	Туре	NET	No.	Туре	NET
63-200	T15A66	\$4.70	63-209	T15A75	\$4.26	63-220	T15R07	\$ 7.79
63-201	T15A67	4.70	63-211	T1.5C52	3.23	63-221	T15R08	9.41
63-202	T15A68	4.70	63-212	T15C53	3.38	63-222	T15 S90	5.88
63-203	T15A69	4.70	63-213	T15C54	3.67	63-223	TT15 S91	7.35
63-204	T15A70	4.70	63-215	T15D85	4.70	63-224	T15 S92	8.82
63-205	T15A71	4.70	63-216	T15D86	5.29	63-225	T15 S93	10.29
63-206	T15A72	4.70	63-217	T15R04	4.41	63-226	T15 S94	11.76
63-207	T15A73	. 4.41	63-218	T15R05	7.79	63-227	T15 S96	7.35
63-208	T15A74	4.12	63-219	T15R96	7.20	1551	1000	11000

UNIVERSAL 6 VOLT VIBRATOR TRANSFORMERS

Ideal for replacing defective vibrator transformers in auto radios.

Stock No.	Type	NET	Fig.	DC Volts	Ma.	Lbs.
63-250	T14 R33	\$1.76	3-C	225	40	2
63-251	T14 R34	2.06	3-C	250	50	3
63-252	T14 R35	2.20	3-C	260	60	3
63-253	T14 R36	2.79	3-C	285	75	31
63-254	T14 R37	2.94	3-C	350	75	4
63-255	T14 R38	3.38	2G	320	100	1 5
63-256	T14 R39	1.62	2B	150	40	2

115 VOLT 50-60 CYCLE OR 6 VOLT DC MODEL

Universal 115 V. AC or 5 V. DC Vibrator Power Transformer.

6:3-:270 | T14 R40 | \$4.41 | 2Gr | 350 or | 135 ma | 9 | 6.3 CT | 4.75 A

MAKE ALLIED YOUR RADIO SUPPLY HEADQUARTERS

THORDARSON High Quality TRANSFORMERS









FIG. 2-C



FIG. 3-K

Universal Power

FIG. 2-G

FIG. 2-H

FIG. 3-C

UNIVERSAL DUPLICATE POWER TRANSFORMERS

A complete line of power transformers designed to meet the requirements of every Serviceman and Set-Builder. See illustration above, left. Typical Thordarson quality, built into each unit, insures dependable service and long life. A variety of mountings are used, to meet every service requirement. Mounting-brackets are adjustable to permit flush, vertical, or horizontal mounting. All power transformers listed below are for 110 volt 50-60 cycle operation. All plate-windings are center-tapped. Add 100% for 25 cycles; 60% for 230 volts. If the transformer you need is not listed, send in your order, with deposit, and we will supply correct unit promptly. Net price is 40-2% from Thordarson list price. All types available for prompt shipment. Av. wt., 6 lbs.

Stock	Mfr.'s		Pla	te	Fi	1. 1	Fi	1. 2	Fil. 3		Size Inches		
No.	Туре	NET	Volts	Mils.	V	A	V	A	V	A	W	DH	
63-300	T13R01	\$2.06	650	40	2.5	4			5	3		23/4 x3	
63-301	T13R02	2.20	700	50	2.5	7.25			5	3		215/6x3	
63-302	T13R03	2.50	700	70	2.5	9			5	3		31/16 x3	
63-303	T13R04	2.94	700	100	2.5	12.5			5	3		33/4 ×3	
63-304	T13R05	2.94	700	70	2.5	9	2.5	3.5	5	3		31/2 x3	1/4
63-305 63-306	T13R06	3.38	700	120	2.5	12.5	2.5	3.5	5	3		31/8 x4	12
63-307	T13R07 T13R08	3.53	800 700	110	2.5	15	2.5	3.5	3	3 3		31/2 x4	1/2
63-308	T13R09	3.67	750	180	6.3	3.3	2.5	6	2	3		39/16 X4	
63-309	T13R00	2.65	550	70	5.5	.5	2.5	10.5	5	3		33/16 x3	
63-310	T13R11	1.91	580	50	6.3	2	2.5	10.0	5	3		23/4 x3	
63-311	T13R12	2.20	700	70	6.3	2.5			5	3 3		35/16 x3	
63-312	T13R13	2.65	700	90	6.3	3.5			5	3	31/8 3	33/8 x3	3/4
63-313	T13R14	2.94	700	120	6.3	4.7			5	4		31/2 x3	3/4
63-314	T13R15	3.38	750	150	6.3	5			5	4		33/8 x4	
63-315	T13R16	3.82	800	200	6.3	5.14			5	3		31 1/6×4	
63-316	T13R17	2.50	600	60	6.3	2.5	2.5	7.5	5	3		31/16 x3	
63-317	T13R18	2.94	700	90	6.3-2.5	3.5	2.5	9	5	3		31/4 x4	
63-318	T13R19	1.76	480	40	6.3	2			5	2		21/2 x3	
63-275	T13R20	2.20	610	70	6.3	3.5			5	2	21/2 X	35/16 x3	

GENERAL-PURPOSE POWER TRANSFORMERS

A carefully selected listing. Two types to choose from. Average shipping weight, 8 pounds.

Stock	Mfr.'s	TAES!			ate		. 1	Fil	. 2	Fil	. 3	Size Inc	hes
No.	Туре	NET	Fig.	Volta	Mils.	V	1 A	V	A	V	A	W D	Н
63-335	T60R49	\$1.76	2H	560	30	2.5	3.5	5	2			213/16x21/2x	2
63-336	T70R20	1.91	2H	600	50	6.3	2	5	2			215/16x37/16x	17/8
63-337	T75R47	2.79	2H	680	125	6.3	2	5	2 2			33/4×315/16×	213/16
63-338	T70R78	2.50	2G	680	55	6.3	1.5	5	2			35/16x25/8x4	5/8
63-339	T70R61	2.79	2G	770	70	6.3	2.5	5	2			35/16x31/8x4	5/B
63-340	T56R01	3.38	2G	650	70	2.5	3	1.5	4	5.0	5	35/16x35/8x4	
100	11.50	Section 1	5733	San Di	45/76	53Hur.		1.5	1				
63-341	T56R03	3.97	2G	700	105	2.5	3	2.5	1.75	1.5	5	33/4x39/6x4	15/16
The Teaching										1.5	1		
63-342	T70R62	3.67	2G	700	145	6.3	4.5		3100			33/4x37/8x4	15/16
63-343	T56R05	3.97	2G	700	110	2.5	9	2.5	3			33/4×31 1/6×	415/16
63-344	T92R21	4.41	2G	778	200	6.3	5	1				33/4x41/4x4	15/16
63-345	T74R28*	3.97	2G	880	125	6.3	3.3					33/4×31 1/6×	41 5/16
63-346	T17R30	5.00	2G	740	280	6.3	7					33/4x43/8x4	15/16
3-347	T17R31	7.35	2G	860	325	6.3	8					33/4x41/4x4	
53-348	T70R21	2.65	211	700	70	2.5	4	6.3	3			4 x33/8x2	
63-349	T75R50+	4.56	2G	870	250	6.3	1.5	2.5	10			33/4×41/4×4	15/16
63-285	T17R34	3.09	2G	600	125	6.3	4.8					35/16x33/8x4	5/8
63-286	T17R35	2.06	2G	580	50	6.3	2.0		246 (2.0)			25/8x3 x3	1/8
63-287	T17R36	2.35	2G	700	70	6.3	2.5					25/8x39/16x3	1/8
63-288	T17R37	2.79	2G	700	90	6.3	3.5		1000			35/16x31/2x4	
63-289	T17R38	3.09	2G	700	120	6.3	4.7					35/6x35/8x4	

^{*}Has 38 volt bias tap. †Has 80 volt bias tap.

STRAIGHT AUDIO TRANSFORMERS

Supplied in a variety of sizes and mountings, as illustrated above, and on page 120.

Stock No.	Mfr.'s Type	NET	Fig.	Ratio	W D H	Mtg. Centers	Shpg. Wt.
63-365 63-366	T47A25 T29A99	\$1.32	2-C 2-B	3:1 3:1	21/8 x21/4 x23/8 27/8 x15/8 x15/8	19/16" 23/8" 23/8" 215/16"	1 2
63-367 63-368 63-369	T57A36 T57A38 T75A74*	1.32 1.76 1.62	2-F 2-F 2-F	3:1 3:1 2:1	2 ⁷ / ₈ x2 ¹ / ₈ x2 ³ / ₈ 3 ³ / ₈ x2 ¹ / ₂ x3 2 ³ / ₄ x2 ¹ / ₈ x2 ³ / ₈	215/16"	3 2
63-370 63-371	T17A02† T13A34	1:47	2-F 3-B	3:1	23/4 x2 1/8 x23/8 213/16 x 15/8 x 15/8	23/8" 23/8" 23/8"	2 2

^{*}Has static shield between primary and secondary. †For either straight or push-pull use.

PUSH-PULL INPUT AND INTERSTAGE TRANSFORMERS

Frequency response flat within 11/2 db, from 60 to 8000 CPS. Packed with proper hook-up.

Stock No.	Mfr.'s Type	NET	Fig.	Ratio	Size Inches W D H	Mtg. Certers	Shpg. Wt.
63-385	T14A29	\$1.47	2-C	3:1	2 x115/6x23/8	11/2"	2
63-386	T33A91	1.18	2-B	3:1	27/8×2 ×23/8	23/8"	2
63-387	T57A39	1.47	2-F	3:1 3:1 3:1 3:1 3:1	23/4×21/8×23/8	23/8"	2
63-388	T57A40	1.91	2-B	3:1	33/8×21/8×3	215/16"	2
63-389	T57A41	2.06	2-F 2-B 2-F 3-B	3:1	33/8x21/2x3	215/16	2
63-390	T57A42	2.06	2-B	3:1	33/8×21/8×3	215/16	2
63-391	T58A70*+	2.20	2-F	1.5:1	33/8x21/2x3	215/16"	3
63-392	T13A36†	1.18	3-B	1:1	3 x13/4x2	211/16"	1
63-393	T14A92	.79	3-B	3:1	23/8×15/8×13/8	2"	1/2
63-394	T13A35†	.88	3-B	3:1	213/6x15/8x15/8	23/8"	3/4
63-395	T74A31	2.06	2-F	1:1	33/8×21/2×3	215/16"	-21/4

†P.P. Interstage. *Primary rated at 10 ma. Others have 8 ma. primary ratings.

THORDARSON PUBLICATIONS

37-017. Tru-Fidelity Broadcast Station Transformer Catalog 500F.....FREE

37-701. Sound Amplifier Guide 346D. Contains information on inverse feedback, mixers, tone controls, and diagrams on amplifiers up to 120 watts. 32 pages. NET. 9c 37-702. Transmitter Guide 344E. Contains diagrams, modulation tables, coil data, power supply circuits, etc. An indispensable aid for all Amateurs. 44 pages. 9c

ACME TRANSFORMERS

STEP-DOWN TYPE



VARIABLE VOLTAGE **ADJUSTER**



62-501. Capacity 150 \$ 6.75 Watts. Shpg. wt., 7 lbs. NET. 62-502. Capacity 350 Watts. Shpg. wt., 11 lbs. NET. 11.76 62-503. Capacity 500 Watts. Shpg. wt., 14 lbs. NET. 12.94

KNIGHT STEP-DOWN TRANSFORMER



An entirely new step-down transformer with 150 watt capacity. Equipped with new Amphenol tap-switch for switching to prevailing input-voltage. Has six primary taps: 90, 100, 120, 200, 230 & 250 volts. Secondary: 115 V. at 1.3 amperes, 50/60 cycles. Handy female receptacle is mounted on side. Supplied with a rubber cord, terminating in a standard power plug. Especially designed for operating 110 volt radio receivers, amplifiers, and small electrical appliances from higher voltages. Shpg. wt., 9 lbs. \$3.85



ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.



QUALITY CHOKES, OUTPUT, AND AUDIO TRANSFORMERS





A complete listing of popular Stancor transformers and chokes for builders, experimenters, servicemen, and for many industrial applications. High-quality material, skilled workmanship, and special impregnation assure long life and greater margin of safety. Will meet all

OUTPUT TRANSFORMERS

Stock No.	Туре	NET	Fig.	Primary	Sec.	Size Inches
64-001	A3876	\$0.56	A	Sgl. 2000	4	15/6x23/8x11/6"
64-002	A3825	1.00	A	Sgl. 2500	1. 2. 4	17/8x31/4x13/4"
64-003	A2203	.76	A	Sgl. 4000	8	15/8×23/4×15/8"
64-004	A3877	.56	A	Sgl. 5000	4	15/16x23/8x11/16"
64-005	A3822	.71	A	Sgl. 7M-10M	.7-4	13/8x23/8x11/2"
64-006	A3878	.56	A	Sgl. 7000	4	15/6x23/8x11/6"
64-007	A2313	.85	A	Sgl. 7000	8	17/8x31/4x15/8"
64-008	A2201	1.09	A	P. P. 8000	6	17/8x31/4x15/8"
64-009	A3824	1.18	A	P. P. 8000	1, 2, 4	17/ax31/4x2"
64-000		3.23	D	P. P. 9000	4-500	37/8×31/4×33/8"
64-010	A3879	.59	A	Sgl. 10000	4	11/6x23/8x11/6"
64-011	A3831	.85	A	P. P. 10000	2.4.8	11%2x27/8x15/6"
64-012	A3839	1.94	D	P. P. 10000	4-2M	21/4x23/4x21/8"
64-013		.91	A	P. P. 14000	4	17/8x31/4x15/8"
64-014		.59	A	Sgl. 15000	4	15/16x23/8x11/16"
64-015	A3857	.79	A	P. P. 25000	4	13/8x27/6x13/16"

UNIVERSAL OUTPUT TRANSFORMERS

Stock No.	Туре	NET	Fig.	Watts	Sec.	Size
64-025			A	4	1 to 30	15/6x23/ax11/6"
64-026			A		1 to 30	15/8×213/6×15/8"
64-028	A3830	1.71	A	18 20	1 to 30 1 to 30	21/4×21/4×21/4* 25/8×41/6×21/4*

regular needs for constructional, exregular needs for constructional, ex-perimental or replacement purposes, in radio receivers, amplifiers. PA systems, recorders, intercommunication systems, hearing aids, etc. Av. shog. wt., 1 lb. For information covering all Stancor prod-ucts, send for catalogs listed below.





٠	IL	T	E	K	C	н	O	K	E	2
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Stock No.	Туре	NET	Fig.	Hys.	Ma.	Ohms	Size
64-050	C-1706	\$0.56	A	5	50	300	15/16x23/8x11/16"
64-051	C-1707	.56	A	7	50	500	15/16x23/8x11/16"
64-052	C-1708	.73	A	10	65	460	17/8x31/4x213/16"
64-053	C-1709	1.00	A	9	85	250	17/8x31/4x213/16"
64-054	C-1710	1.23	A	8	150		21/2x4 x21/16"
64-055	C-1003	.76	A	30	50	550	17/8x35/16x15/8"
64-056	C-1002	1.03	A	30	75	400	21/4x311/6x17/8"
64-057	C-1001	1.29	A	30	.110	200	21/2x4 x2"
64-058	C-1515	.59	A	50	15	900	15/8x213/16x11/2"
64-059	C-2303	.91	A	10	130	100	2 x33/8x15/8"
64-060	C-2304	.91	A	8	150	65	2 x33/8x15/8"
64-061	C-2305	1.23	D	20	100	275	23/8x23/4x21/8"

PLATE TO GRID AUDIO INTERSTAGE

SECCKIAO.	lype	MEI	rig.	Hatio	Size
64-070	A53	\$0.76	A	3:1	13/8×23/8×11/2" 15/8×213/6×11/2"
64-071	A63	.88	A	3:1	15/8x213/6x11/2"
THE LOCAL PROPERTY OF THE PARTY		PUSH-PUL	AUDIO.	INDIIT	ALC: NO PAGE
		TOSTI-FOL	L MODIO	HALOI	
64-080	A4741	\$0.91	C	2:1	2 x15/8x15/8"

			ACDIO	1141 01	
64-080	A4741	50.91	C	2:1	2 x15/8 x15/8" 13/8 x23/8 x11/2" 15/8 x213/6 x11/2" 2 x35/6 x15/8"
64-081	A53C	.76	A	3:1	13/8×23/8×11/2"
64-082	A63C	.88	A	3:1	15/8x213/6x11/2"
64-083	A73C	1.12	A	3:1	2 x35/16x15/8*
64-084	A4711 Inte	rstage 1.12	A	1:1	15/8×213/6×11/2"

UNIVERSAL POWER TRANSFORMERS



122



For replacement in 80% of radio sets. 4 mounting brackets give a choice of five mounting positions. Have electro-static shielding and 8° leads. Cores of laminated silicon steel. Coils heavily insulated. Secondaries are center-tapped. Plate voltages are measured across total winding. 110-120 V., 50-60 cycles. (For 110-120 V., 25 cycles, add 100%. For 220-230 V., 26-60 cycles, add 35%. For 220-230 V., 25 cycles, add 100%.

UNIVERSAL REPLACEMENTS FOR 2.5 VOLT TUBES

Stock Mfr's. No. Type	Mfr's		Plate		Fil. 1		FI	1. 2	Fil.		Mtg.	Shpq.
	NET	Volts	Mils.	V.	A.	V.	A.	V.	A.	Centers	Wt.	
64-100	P6001	\$1.82	650	40	5	2.0	2.5	4.0		200	2 x21/2"	4 lbs.
64-101	P6002	2.32	700	50	5	2.0	2.5	7.25			2 x21/2"	4 1bs.
64-102	P6003	2.44	700	70	5	3.0	2.5	9.0			21/4×213/16"	41/2 lbs
64-103	P6004	2.85	700	90	5	3.0	2.5	12.5			21/2×31/8"	6 1bs.
64-104	P6005	2.68	700	70	5	3.0	2.5	9.0	2.5	3.5	21/4×213/16"	6 lbs.
64-105	P6006	3.50	700	120	5	3.0	2.5	12.5	2.5	3.5	21/2x31/8"	61/2 lbs
64-106	P6007	3.65	800	110	5	3.0	2.5	15.0	2.5	3.5	21/2x31/8"	7 lbs.

UNIVERSAL REPLACEMENTS FOR 6.3 VOLT TUBES

64-107	P6289	\$1.82	420	40	1 5	2.0	6.3	2.0	land	2 x21/2"	4 lbs.
64-108	P6297	1.82	480	40	5	2.0	6.3	2.0		2 x21/2"	4 lbs.
64-117	P6312	2.79	580	90	5	3.0	6.3	2.8		213/16x21/4"	6 lbs.
64-118	P6313	3.09	580	125	5	3.0	6.3	4.5		37/16x23/4"	7 lbs.
64-109	P6119	1.85	600	55	5	2.0	6.3	2.7		2 x21/2"	4 lbs.
64-110	P6120	2.47	630	70	5	3.0	6.3	3.5		21/4x213/16"	6 lbs.
64-111	P6010	1.82	650	4.0	5	3.0	6.3	2.0		2 x21/2"	4 lbs.
64-112	P6011	2.32	700	70	5	3.0	6.3	2.5		2 x21/2"	4 lbs.
64-113	P6012	2.62	700	90	5	3.0	6.3	3.5		21/4×213/16"	6 lbs.
64-114	P6013	2.88	700	120	5	3.0	6.3	4.7		21/2x31/8"	6 lbs.
64-119	P6314	4.32	700	200	5	3.0	6.3	5.5		33/4×31	81/2 lbs.
64-120	P6315	5.88	740	275	5	3.0	6.3	7.0		33/4×3"	9 lbs.
64-115	P6014	3.79	750	150	5	3.0	6.3	5.0	****	21/2×31/8"	6 lbs.
64-116	P6165	4.38	800	200	5	4.0	6.3	5.5		3 x33/4"	7 Ibs.

STEP-UP AND STEP-DOWN TRANSFORMER

Provides 115 V., 60 cycles at 150 watts from 90, 100, 120, 220, 230, 240, and 250 V., 60 cycle lines. Primary tap switch used to step-up 110 V., 60 cycle lines to higher voltages for locating "intermittents." Ideal for service bench, laboratory and industrial use. Size, 4½ x 37½ x 5°. Wt., 10 lbs. 64-250. Type P6300. NET.... \$6.64

STEP-DOWN TRANSFORMER

Reduces 220-250 V., 50-60 cycle lines to 110-125 V. for radios, amplifiers, electric phono-graphs, recorders, appliances, etc., up to 40 watts. 4½ x 3 x 3". 3 lbs. 64-260. Type P6287. NET....\$2.32

SINGLE BUTTON MIKE TRANSFORMER

Matches single-button carbon microphone to single or push-pull grids. Primary, 100 ohms. Secondary, 400,000 ohms CT. Overall ratio, 1 to 64. Open-frame mounting. 6" flexible leads. Size, 2½ x 2½ x 2½". 1½ lbs. 64-270. Type A4742. NET.....\$1.23

64-271. Type A4743. As above, but has shield-cover over entire coil. 21/4 x 27/6 x 21/2*. Shpg. wt., 11/2 lbs. \$1.38

EXACT DUPLICATE TRANSFORMERS FOR EASY REPLACEMENTS

The popular Exact Duplicate Power Transformers listed below are a partial selection of those available. For units not listed, give name, We ship from local stock. Discount, 40—2% from Stancor list price.

Model	No.	Lbs.	NET	Model	No.	Lbs.	NET
CROSLEY 505, 515, 516, 525,		_		PHILCO, Cont'd. 19 (121-126), 44	-7-6		
5515, 5516, 6516. 517, 537, 547 526, 616, 5526, 555,	64-151	2	\$2.23	(121-122), 60, 66, 89, 264, 265 45 (121-122), 245	64-203 64-204	41/2	\$2.35
5555	64-152 64-153	41/4	3.47	38-12 (121), 38-15, 38-17 (121-124), 37-9, 37-10 (121-	64-205	4	2.00
GENERAL ELEC E61, E62, E68 E91, E95, E101,	64-165	5	2.62	125), 37-650, 37- 665, 37-2650, 38-3 (121) 38-665, 38-	CHERRY		ATERN
E105, E106 K43, M42, M49	64-232	3	3.85	2650 (321) 14 late, 18 (121-2-	64-206	7	4,32
MAJESTIC		121/4	4.79	3-4), 118 RCA-VICTOR	64-207	71/2	4.00
71, 72 (70) Plate 90, 91 (90B), 93 (90B), 102, 103		6	3.09	5T, 5T1, 5T4, 5T5, 5U, 6K1, 6T5, 85T, 85T1, 85T5,	1 1 10		
91, 92 (90), 101 (100)	64-181 64-182	101/4	4.32	86T4, 86T44, U101, U103. 32, RE45, RE52,	64-225	6	2.62
PHILCO 70, 70A, 270, 370,				RE75. R11, RE18, RE18A.	64-226	81/2	5.41
470, 470A, 570 95, 96, 296 80, 81	64-201	81/2	4.17 4.00 2.23	R21, RAE26 RAE68, 80, 82, 86, 82R, 86R	64-228	8 91/2	4.23

Model	No.	Lbs.	NET		
RCA-VICTOR	100000000000000000000000000000000000000		Sall Barrier		
T-4-8A, T-4-9A, 4T	64-229	21/2	\$ 2.23		
64, 67	64-230		10.79		
R78, RAE84	64-231	121/4	4.79		
100 (late), 101, 301,					
T-4-8	64-232	3	2.00		
+9K2, 9T, 9U, 9U2,	BEAR FRANCE		A 28		
10K, 10T	64-233	33/4	3.32		
C6-11, C6-12, 6K,		2			
6T, 7K, 7T, 8K,		221			
8K1, 8T	64-234	23/4	2.35		
U.S. RAD. & TEL.			-		
26	64-235	41/2	2.62		

STANCOR PUBLICATIONS

37-035. Transformer Guide. Over 4300 receivers, charts, circuits, etc. FREE

37-036. Transformer Catalog. Illustrates and describes entire Stancor line. Includes Amateur units.....FREE 37-770. Hamanual. Popular transmitter circuits, charts, power supplies, etc. FREE with Stancor order, or NET... 15c

OUR PRICES ARE ALWAYS LOWER—WE WILL NOT BE UNDERSOLD



BURGESS STANDARD DRY BATTERIES

Suitable for all radio and laboratory requirements. Absolutely moisture and climate-proof. Incorporate the highest degree of purity in materials. Quality maintained by laboratory control and test. ALLIED's stock of Burgess Batteries is always fresh, assuring you of full-rated efficient service. Explanation of terminals: P.I.—plug-in (plugs listed at right below); S.C.—spring clips; S.T.—screw terminals. A type for every purpose.

Stock No.	Burgess No.	Terminals	Vales	Shpg. Wt.	Size	NET
140.	140.	SUPER				LACII
00 500	21200			S. Califfic C		100 00
80-500	125 150 150	P.I.	45	_	73/8×81/8×41/2"	\$2.23
	21308SC	S.C.	45	15	73/8x81/8x41/2"	2.23
80-502		P.1.	45		7¾6x81/8x31/16"	1.61
80-503	22308SC	S.C.	45		73/6x81/8x31/6".	1.61
		STANDAR			MARKET PA	
80-504		P.I.	45		71/4x8x4*	\$1.85
THE RESERVE	10308SC	S.C.	45	13	71/4×8×4"	1 1.85
80-506	The second secon	P.I.	45		71/8x8x27/8"	1.33
	2308SC	S.C.	45		71/8×8×27/8"	1.33
80-508	5308	S.T.	45	4	57/8×43/16×29/16"	1.16
		STANDARI	D "C"	BATT	ERIES	
80-509	2156	S.C.	221/21	51/2	31/2×65/8×41/16"	\$1.12
80-510		S.T.	221/21	11/21	3x33/8x29/16"	1 .64
80-511	5156	P.I.	221/21	2	35/8×41/8×29/6"	.72
	5156SC	S.C.	221/2	2	35/8×41/8×29/6"	.72
80-513	2370	P.I.	41/21	1 1/2	35/8x4x13/8"	.30
80-514	5540	S.T.	71/2	1	31/8×4×7/8"	1 .48
80-515	5360	S.T.	41/21	1/2	3x25/8x13/16"	.31
80-516	B5P	P.I.	71/21	1	4x31/6x13/8"	.48
1000		SPECIAL-PL	JRPOS	E BAT	TERIES	
80-517	Z30N	I S.T.	45 1	13/4	11/4×17/8×49/16"	1\$1.15
	X30FL	Wire leads	100000		229/32×11/4×413/6"	1 1.75
The second second	W30BPX	S.T.	45		3x1 1/4x31/16"	1.70
	A30BP	S.T.	45 1		45/16x25/8x37/8"	1 1.27
	W5BP	S.T.	71/21		213/16x5/8x13/8"	.64
The same of the last of the la	W30BP	S.T.	45		3x1 1/4x39/16"	1.66
	W30FL	Wire leads	45	1 1	3x11/4x39/6"	1 2.00
80-524	Z30NX	S.T.	45	11/2	3x17/8x49/16"	1.50
80-525	Z30BP	S.T.	45	11/21	35/8x25/16x33/8"	1.23
53-015	Z30X	S.T.	45	11/21	35/8×25/16×33/8"	1.50
53-016	F4BP	S.T.	6 1	11/21	211/6x211/6x315/6	.35
53-017	2F2H	S.T.	3	11/2	25/8×25/8×37/8"	.40
53-018	F2BP	S.T.	3 1	1)	25/8×15/16×41/16"	1 .34
53-019	A15ST	S.C.	221/21	2 1	23/32×323/32×219/32"	.60
120	110 V	OLT ELECT	RIC S	HAVER	BATTERIES	
53-020	200PI	Socket	135	41/31	35/16x31/8x55/8"	\$3.32
53-021		Socket	135 1		31/16x21/16x61/16"	3.75
33-021		OR PHILCO	-		623 AND 64	
		Salar College	112.29	TO SPECIAL PROPERTY		
	F90-D6		135	-	131/4×81/2×71/6"	
80-527	G90-D6	Socket	135		131/8×91/4×71/4"	5.44
		OR PHILCO				
80-528	G90-D8		135	45	137/8×91/4×71/4"	\$5.44
		FOR PHIL			80-85	- 7.25
and the last of th	The same of the sa	The state of the s	11/2	7	73/16×55/16×43/8"	The same of the last

DRY CELL "A" BATTERIES AND PACKS

Socket

Socket

80-530 | 19G

80-531 | D60

1 11/2 1 8 173/1ex55/8x419/16"

16

181/2×131/2×3"

Stock No.	Burgess No.	Volts	Shpg. Wt.	Size	NET
53-022	4FA 44	11/2	1½ lbs. 11 oz.	25/8×25/8×45/6" 17/8 dia. x 41/8"	\$0.33
53-024 53-027	4FH 4F2H	11/2	1 ½ Ibs.	25/8×25/8×45/16" 25/8×313/6×55/16"	.29
53-025 53-026	4F4H 20F	6	7 lbs. 8 lbs.	23/4×81/4×63/8" 71/4×711/6×211/6"	1:41
80-532 80-533	20F2 40F2	3† 3†	15 lbs. 30 lbs.	1113/6x315/6x61/16" 81/6x119/6x65/8"	2.35
53-028	F4H	6	2 lbs.	25/8x25/8x37/8"	35

TURULAR FLASHLIGHT UNLCFLS

53-029. No. 1. 1½ volts. Size: 1½x1 in. Baby type. 2 oz.	53-009. No. 2. 1½ volts. Size: 2½ x1½. Standard type. 4 oz.	No. 1 or No. 2 Cell. EACH	61
	enlight Battery, 37/ax%6".		

KNIGHT PLUG-IN DRY BATTERIES

Only the highest quality materials are used in the making of Knight batteries. Each Knight battery is scientifically protected against internal shorts by a unique sealing method. These batteries are designed for a long and full life. For maximum battery value—buy Knight. Our quick turnover assures you of constantly fresh stocks of all Knight battery types. Our low prices assure you of bigger savings and bigger profits. *Plug-in batteries do not include plugs. See plugs listed below.



Stock No.	Туре	Volts	Size	Shpg. Wt.	NET
80-800	*Standard	45	73/4x6 x3"	10 lbs.	\$0.99
80-801	*Heavy-Duty	45	63/4×73/4×4"	12 lbs.	1.32
80-802	*"B" or "C"	221/2	4 x21/2x23/4"	2 lbs.	.61
80-803	*"C".	41/2	4 x3 x11/4"	1 lb.	1 .24

DRY CELL, FLASHLIGHT CELLS, AND 6 VOLT PACK

	6 x21/2"	2 lbs. \$0.23
80-805 No. 1 Midget 11/2	1 x17/8"	2 oz. .04
80-806 No. 2 Std. cell 11/2	15/6x23/8"	4 oz. .04
80-807 "Hot Shot" 6	101/2×21/2×6"	7 lbs. 1.39

POPULAR RAY-O-VAC PLUG-IN BATTERIES



Famous quality batteries built to most rigid specifications and incorporating special Ray-O-Vac features for extra pep and stamina. Furnish an efficient, dependable source of power for portable and other battery-operated radio sets. Constructed of highest-grade materials for long-life, full-rated service. Used as original equipment in many sets, and also ideal as replacements. Equipped with plug-in type sockets. ALLIED's fast-moving stock of Ray-O-Vac batteries asures you of fresh batteries in every type. Supplied less plugs. Use same plugs as those listed for Burgess on page 124.



No.	Туре		General	Volts	Size	Sh. Wt.	NET
80-850	P94A P5303	4F B30	4F1 V30B	11/2	25/8×25/8×4" 41/8×29/16×55/16"	1 2	\$0.42
80-852		17GD60	60DL11L 4F4	11/2A,90B	153/4x41/4x7"	23	3.67
80-854	P430	A30	V30A	45	25/8×25/8×41/4" 31/2×25/6×45/8"	2	1.12
80-855 80-856	P7830	XX45 M30		67 1/2 45	3%6x113/6x57/6"	2	1.60

GENERAL PORTABLE AND LABORATORY-

TYPE BATTERIES



Exact duplicates of batteries widely used in portable receivers. Patented construction permits use of highly active materials to give long hours of service. Excellent quality makes them ideal for laboratory work. Select by type number. See pages 124-125 for sizes and set listings. We can supply additional General batteries. Write for prices. Less plugs. See Burgess plugs listed on page 124.



Fig. B.

PORTABLE PLUG-IN BATTERIES (Fig. A)

No.	Type	Lbs.	NET	No.	Туре	Lbs.	NET
53-200	2F1	I	\$0.21	80-701		2	\$0.94
53-201	8F4	3	.67	80-702		3	1.05
53-203	4F1	11/2	.38			11/2	1.05
53-204	3L1	2	.35	80-704		2	.94
53-205	6F1	21/2	.52	80-705		1	1.05
53-206	8F1	3	.67	80-706		1	1.22
53-208	4F4 3H3	11/		80-713 80-707		2	1.35
53-209	5H5	11/2		80-708		512	3.56
53-211 2		1/2		80-709		51/2	2,45

LABORATORY CLIP TYPE BATTERIES (Fig. B.)

Stock No.	Mfrs. Type	Volts					EACH
80-714 80-715 80-716	V30AAA P2KX PXZ	45 3 3	215/16" 3 1/2" 29/16"	15/6"	41/8" 45/8" 41/16"	11 oz. 20 oz. 16 oz.	\$2.20

PLUG-IN CONNECTORS

All plug-in batteries shipped less plugs. Plugs listed below fit Burgess, General, Knight and Ray-O-Vac standard batteries. See page 124 for complete listing of portable battery plugs. Shpg. wt., 3 oz.

compice in	crise or ber person persons burger priles	P
	Connector for all 45 volt batteries.	
	Connector for 221/2 volt batteries.	
54-052.	Connector for 71/2 volt batteries.	
	Connector for 41/2 volt batteries.	

123

1.38

MOST POPULAR **BATTERY TYPES**





XX45 67.5 V. "B" battery. Re-places Ever-eady type 467. Used in camera and miniature

and miniature personal portables, such as Admiral 27G4, 28G5; General Elec. mo de ls JB410, LB612, LB502, LB603; RCA BP-10; Emerson DU-379, 380, 411; Crosley 45BV; Motorola Al, 3A5; Sentinel 227P, 247P; Sonora LP161-2-3; etc. Features new snap-on connections. Size, 211/621/4x311/6*.

Wt. 34 lb. S0-544. NET ... \$1.60





4F

4F
1½-volt 40
watt hour
"A" battery
for portable
receivers.
For Admiral
331-4F; Detrola Pee
Wee No.282,
295; Emerson CE-259;
Fada P-49,
PD-49, P-58;
Garod BP5,-

PD-49, P-58; Farnsworth AT-30; Garod BP5,-5A, 4; General Electric HB402,-3; RCA 94BP1,-4,-64,-66,-80,-81; T4, etc. 25/6" x 25/6" x 45/6". T4, etc. 25% x Wt., 11/2 lbs. 53-003. NET.35.



5DA60

ALLIED OFFERS THE COMPLETE REPLACEMENT LINE

Here, on two easy-to-read pages, ALLIED lists quality batteries and standard battery plugs that may be needed to meet the specifications of every conceivable battery-portable radio, or commercial demand. Used by leading Laboratories, Government Departments and Industrial Organizations, Burgess and General batteries are constructed to most exacting standards of dependable and economical service. They are manufactured from finest materials obtainable, each embodying special features of construction designed to provide rugged durability and lasting freshness. Graded paraffin coatings moisture-proof the cells for longer life. ALLIED'S tremendous volume of sales assures you of factory-fresh batteries always to fulfill all of your battery requirements dependably. fresh batteries always, to fulfill all of your battery requirements dependably.

	BURGES	S					places				
Stock No.	Туре	NET	Volts	Takes Plug No. †	Size In Inches	Wt. Lbs.	Stock No.	Туре	NET	Ever-	
			25	PORTAB	LE "A" BATTE	RIES			Ġ-		
53-000 53-001 53-002 53-003 53-005 53-005 53-006 53-007 53-010 53-010 53-011 53-012 53-014	2F 2F4 2F4L 4FL 6F 8F 8FL F4L 2 Uni-cel FX F4PI F4PIX G3 G5	\$0.28 .700 .735 .422 .527 .667 .010 .338 .332 .52	1 1/2 6 1 1/2 1 1/2 1 1/2 6 1 1/2 6 4 1/2 7 1/2	274 2793 2793 274 274 274 274 274 274 2793 2793 2793 2792 M77	11/6x25/6x44/6 21/16x33/3x51/2 12/6x33/3x51/2 12/6x325/6x41/6 12/6x33/4x51/2 22/4x313/6x51/6 11/6x325/2x101/16 315/6x11/3x55/6 22/6x15/6 15/6 dia. x 43/4 22/6x25/6x4 25/6x15/6x4 25/6x15/6x4 25/6x25/6x4 25/6x25/6x4 25/6x25/6x4 25/6x25/6x4 25/6x25/6x4 25/6x25/6x4 25/6x25/6x4 25/6x25/6x4	13311234		8CF4 4F1 3L1 6F1 8F1 8CF1 4F4	\$0.21765555525656	950	

PORTABLE "B" BATTERIES

80-534	W20PI	\$0.88	30	273	113/6x17/32x41/4	1 1/2	53-211	20AAAG	1\$0.77	
80-535	A30	1.05	45	273*	21/4×31/2×41/2	2	80-701	V30A	.94	
80-536	B30	1.05	45	273*	2% x41/6x55/16	23/4	80-702	V30B	1.05	762
80-537	Z30	1.12	45	273*	21/4x31/6x4	11/2	80-703	V30AA	1.05	738
80-538	A30M	1.05	45	626	41/4x31/2x211/16	11/2				
			45	.~273*	11/2x41/2x513/32	2	80-704	F30A	.94	727
80-539	W30PI	1.45	45	273*	13/6x215/6x315/16	3/3		V30AAA	1.05	733
80-540	W34	1.37	51	273	11/4x3x41/4	1	80-706	34AAA	1.22	
80-541	W40	1.55	45 45 45 45 45 45 51 60	2767	11/4×3×53/6	1	A STANCE		A CONTRACTOR OF	1000
80-542	Z59	2.40	881/2	273	31/2×21/4×57/4	21/4				
80-543	A60	2.10	90	273*	41/2x31/4x41/8	33/4				
80-544	XX45	1.60	671/2	Snap-on	211/6x13/8x311/6	3/4				467
80-545	XX30	1.23	45	Snap-on	15/16x29/16x35/8	3/4				
80-546	M30	1.05	45	273*	17/8×39/6×55/8	2				482

"A" AND "B" COMBINATION PACKS

80-	550 4FA60	\$2.27	1.5/90	5705	31/2×7×43/8	1 51/4				
80-	551 4GA42	1.82	1.5/63	2745	2x9x43/4	41/2	80-707	41A4FL	\$1.75	
80-	552 4TA60	2.45	1.5/90	120	81/8x23/8x43/4	43/	441 444		7.5.5	
80-	553 5DA60		1.5/90	120	21 1/16x5%6x67/8	5	80-708	60A2I.	2.36	1303
80-		2.44	1.5/90	2745	11154ex61/4x15/8	514	80-709		2.44	
80-			1.5/90	120	915/4x21/4x47/8	51/2		2 20 20 20 20 20	17997	
80-		1.47	3/45	2745	61/2x41/8x15/8	2	For Ph	ilco Myste	es cont	rol
80-		2.77	6/90	M64	41/4x10%6x41/6	83/4				
80-		1.65	6/61.5		95/6x47/8x21/16	1				
80-		2.48	6/90	2776		61/2				
80-		2:14	6/75	2110	10%x23/4x5	cit				
			6/90	15.624	41/8×123/8×213/16	2.74	00 710	ZEODA TEA	0.00	
80-		2.42		M 64	103/4×213/6×5	ATE		Z50B4-H4		
80-		2.03	1.5/90	120	47/8x91/2x21/4	43/4				
80-		2.32	6/90	M 64	61/6151/2x25/8	5		********		
80-		2.24	1.5/90	120	101/2x41/16x23/8	43/4			Sections	
80-		1.80	1.5/61.5		93/6x35/6x21/16	41/4				
80-		2.36	7.5/90	2900	9%6x4%6x21/16	4.3/4				
80-			7.5/90	2900	1115/16 x41/8 x 211/16	5 1/2				
80-		2.40	6/90	2791	1115/16X41/8X211/16	61/2	80-711	60A-4FL4	2.45	
80-		1.75	7.5/63	2900	91/8×23/4×45/16	43/4				
80-	570 G6B60	2.60	9/90		137/8×41 1/6×213/16	81/4	80-712	260 B-6 H6	2.45	
80-	571 4FA50	2.25	1.5/75		7x31/4x41/16	41/2				

*Or adapter plug No. 54-050 (See page 123).

†Select plug from listing below.

BURGESS PACKS FOR FARM SETS

Types below cover high-efficiency replacements practically every type of battery-powered farm radio.

No.	Type	NET	Volts	Size	L bs.
80-572	17GD60	\$3.67	1.5/90	71/6×153/4×47/6	23
	18GD60		1.5/90	615/16x121/3x55/6"	23
80-575	3G6D60	3.95	6/00	1315/6x81/8x41/4	23
80-576		4.43	7.5/90	83/4×45/8×1515/16" 83/4×45/8×1515/16"	27

BURGESS PACKAGE BATTERY KITS FOR PORTABLES

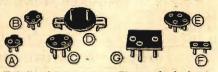
No.	Type	NET	Description	Lbs.
80-577 80-578	230 kit 330 kit	\$2.80	1-2F4L & 2-M.30's 2-G3's & 2-M.30's	7 6
80-579	430 kit 830 kit	2:45	1—4F & 2—B30's 1—8F & 2—B30's	8



F4B60

Combination 6-volt "A" and 90-volt "B" battery-pack. For Zenith 56401. 403. 405. etc. 5ize. 1054" x 24" x 5". A famous combination replacement pack noted for long life. Wr., 6/2 lbs. \$2.48

STANDARD BATTERY PLUGS



Bakelite battery plugs. Fit standard plug-in type dry batteries. Convenient connectors for Laboratory and Industrial work, and for re-placement purposes.

	-		
No.	Fig.	Type	Description
54-000	A	2793	2-prong 6V. "A."
54-001	B	2:73	3-prong portable "B."
54-002	BC	120	4-prong 11/2/90 "A/B."
54-003	D	2:74	2-prong 1 1/2 V. "A."
54-004	E	IM64	4-prong 6/90 "A/B."
54-005	F	200	2-prong 3V. "A."
54-006	G	2767	3-prong 60V. "B."
54-007		1792	2-prong 41/2V". "A."
54-008		M77	3-prong 7/2V. "A."
54-009		5705	4-prong Zenith "A&B."
54-010		2745	4-prong Philea "A&B."
54-011		2900	4-prong 71/2/90 "A/B."
54-012		2776	5-prong 6/90 "A/B."
54-013		2791	4-prong 6/90 "A/B"

mm BATTERIES minu

PORTABLE BATTERY REPLACEMENT GUIDE

ALLIED has made it easy for you to select the right replacement battery for any Portable Radio Set. The simplified chart on page 124 gives size, type and price of both Burgess and General batteries. Listed below are the names and model numbers of leading Portable Radios. Simply refer to this guide for type number of Burgess battery required. Then glance at the chart on page 124 for this type number. If you want General batteries, the correct replacement will be found on same line which identifies the Burgess number. Eveready type numbers are also

listed; Eveready batteries are replaceable by equivalent Burgess or General batteries. Order as many batteries as called for opposite model number of your set. If the battery you need is not listed, give size and type of battery, and the make and model number of set with your order. An exact replacement will be shipped promptly. You are always assured of factory-fresh batteries because of ALLIED'S tremendous volume of sales. Whichever make you buy, you can expect dependable and efficient service, with long life and maximum value.



NAME AND MODEL	BURGESS*	NAME AND MODEL	BURGESS*	NAME AND MODEL	BURGESS*
ADMIRAL		FIRESTONE	1.50460	RCA	1 1 1 1
164-4D, 335-4Z	2-B30, 1-6F	S-7426-7, S-7426-9 S-7402-6	1-5DA60 1-G4B60	94BP1, 4, 61, 62, 64, 66,	2 D20 1 4F
331-4F 33F5, 34F5, 36H5	1-6FA60	04.000	Car Car	94BP1, 4, 61, 62, 64, 66, 80, 81, 96GA, T4 BP55, 56, 85, RC455 15-BP-1, to 15-BP-7, P5.	2-B30. 1-4F 2-M30, 1-2F4L
AID KING	CONTRACTOR OF TAXABLE	BP11, BP120, BP-15, BP24.		15-BP-1, to 15-BP-7, P5.	
4112, 3950. 4016. 4012.	2-B30, 1-2F4L	BP25, BP307	2-M30, 2-G3	25BP	2-M30, 1-6F 1-XX45, 1-72 Cell
4012	1-D4A60	BP12. BP12A. BP12B	2-B30. 1-G5	AVR100, 101	1-4FA50
ANDREA	and the second second second	BP11, BP120, BP-15, BP24, BP25, BP307 BP37, BP36A, BP38 BP12, BP12A, BP12B BP5, BP5A, BP7, BP4 BP9, BP10	2-M30, 2-G3 2-A30M, 2-G3 2-B30, 1-G5 2-B30, 1-4F 2-A30M, 1-4FPI 1-XX45, 3-\$2cells 1-5DA60 2-B30, 1-2F4	BP-10. AVR100, 101 AVR102 RC527, 527A RC407, 410.	2-M30, 2-G3 2-B30, 1-6F 2-B30, 1-4F
21AF5, 21F5, (UF51) 6G61, 6G61A (G61) 6G63, 6G63A, G63	2-B30, 1-8F 2-B30, 2-G3 2-B30, 2-G3	BP20	1-XX45.3-#2cells	RC407, 410	2-B30, 1-4F
6G63 6G63A G63	2-B30, 2-G3 2-B30, 2-G3	BP20 BP6, BP8	1-5DA60	SENTINEL	
ARVIN		DF110,	2-B30, 1-2F4	151BL, 127BL	2-B30, 1-4F 1-2F4B60
802, 803, 822, 820	2-M30, 1-8FL	GENERAL ELECTRIC GB400, HB408, 401	2 P20 1 9F	180 (Late), 201 XL	2-B30, 1-F4PI 2-B30, 1-6F
BELMONT	0 D20 4 0F	GB-440	2-B30, 1-8F 2-B30, 1-6F 2-B30, 1-2F4 2-Z30, 1-4F	213XL 192XL	2-B30, 1-0F 2-M30, 1-2F4L
403, 460, 509, 553, 511	2-B30, 1-8F 2-A30, 1-4FL	HB504, 505	2-B30, 1-2F4	217P, 219P	2-M30, 1-2F4L 2-M30, 2-G3
407. 507, 513, 590. 503.	2-A30, 1-F4PI	HB410, 411	2-M30, 1-8FL	202BL, 172BL, 205BL	2-M30, 1-8FL 1-XX45, 2-#2 cells
CLIMAX	1-259, 1-2F	GB-440. GB-440. HB504, 505. HB402, HB403, HBX-467. HB410, 411. JB-513, 508, HB412, JB523, JB630, JB514 LB-700, 702. JB410, LB412, LB502 LB603.	2 3520 1 2541	SONORA	- TALL TO, H-FD CCHS
	2-A30, 1-4F	LB-700, 702	2-M30, 1-2F4L 2-M30, 2-G3 1-XX45,2-#2cells 1-XX45,3-#3cells	PL29, PL37	1-5DA60 2-B30, 1-2F4 1-Z30 3-#2 cells
73. 578, 578B	2-A30, 1-4F 2-B30, 1-F4PI	JB410, LB412, LB502	1-XX45,2-#2cells	KG80	1-Z30 3-#2 cells
CROSLEY	0.000 4.00	LB003	1-XX45, 3-#3cells	KG132	1-230, 3-#2 cells
B429A, 429, B429A 27BD, 27BE	2-B30, 1-8F 2-M30, 1-2F4L 1-XX45, 1-#2 cell	KADETTE L34	2-M30, 1-2F4L	PL29, PL37 KB73, KD75, KB75 KG80. KG132. SPARTON 590-1 540.1	2-B30 1-2F4
45BV	1-XX45, 1-#2 cell		2-11200, 1-21-115	591-1	2-B30, 1-F4PI
549	1-F4A41 1-4GA42	819	2-B30, 1-4F 2-A30, 1-4F	549-1. 571-1, 571 M	2-B30, 1-2F4 2-B30, 1-F4PI 2-B30, 1-4F 2-M30, 1-8F
5549A	2-B30, 1-2F4	MAJESTIC	2-A30, 1-4F	ISIEWARI WARNER	
DELCO	0.000 4.00	420PL, 421, 430PL, 431	2-B30, 1-4F	02-411, 02-411 to 419	2-B30, 1-4F 2-M30, 1-6F 2-M30, 1-2F4 2-M30, 1-6F
R-1400. R1402	2-B30, 1-8F 2-A30, 1-4FL	130U	2-B30, 1-4F 2-B30, 1-6F	05-5L1 to 05-51.9	2-M30, 1-2F4
R-1400. R-1401, R1402. R-1405, R-1406.	2-B30, 1-8F 2-A30, 1-4FL 2-M30, 1-6F 2-M30, 2-G3	130. 18850B 18850BP	1-W40, 1-FX 2-M30, 1-F4PI	15-5X1 05-5L1 to 05-5L9 05-X5, 02-4A1	2-M30, 1-6F
R-140/	2-M30, 2-G3	1BR50B, 1BR50BP 5BD, 5ULBD, 546BD	2-A30, 1-4FL	STROMBERG CARLSON 402H	2-M30, 1-8F
DETROLA Pee Wee No. 282	1-A60 1-4F	MONTGOMERY WARD	THE PARTY	TRAV-LER	
286, 288	2-B30, 1-8F	5019 AIRLINE	2-B30, 1-8F	553B, 554, 1555 1556, 556	2-B30, 1-4F
280 200	2-B30, 1-4F	5019 AIRLINE	2-B30, 1-8F 2-B30, 1-8F 2-B30, 2-G3 2-B30, 1-4FL	B70	2-B30, 1-4F 2-B30, 1-F4PI 2-A30, 1-F4PI 2-B30, 1-2F4
Pee Wee No. 282. 286, 288. 295. 289, 299. 303. 339, 3401, 3412, 360,	1-4GA42	461, 464 AIRLINE	2-B30, 1-4FL	B70 B71, FB73 B81, FB82. TROUBADOUR	2-B30, 1-2F4 2-M30, 1-2F4L
339, 3401, 3412, 360, 3601, 3602, 3603	2-M30 2-G3	MOTOROLA		TROUBADOUR	2-10150, 1-21-415
EMERCON	The second second	41-D1, 41-D2, 51-D1, 51-D2, 52D. 57BP1, 57BP2, 57BP3, 57BP4, 65BP1, 65BP2, 65BP3, 65BP4, 61L11,	2-B30, 1-6F	948 and 9-457 Clark 0-530, 531, 532, 533, 558	2-B30, 1-6F
CE259	2-B30, 1-4F	57BP1, 57BP2, 57BP3,		WADWICK	LOS CONTRACTOR OF THE PARTY OF
CE263, CT275, CX305,		65BP3, 65BP4, 61L11.	- Law 19 19 19 19 19 19 19 19 19 19 19 19 19	40, 0-407, 0-411	2-B30, 1-4F
CX284, CX308, CA283,	2-B30, 1-8F	61L12	2-M30, 2-G3 2-M30, 1-4F	558, 0-530, 531, 532, 533,	2-B30 1-E4DI
DF302, DF306	2-B30, 2-G3	41H	1-XX45,2-#2 cells	40, 0-407, 0-411, 558, 0-530, 531, 532, 533, 0-53,, 948, 457, 949,, 945, 9-437,, 0-460 to 469, 0-501, 1-53, 54	2-B30, 1-F4PI 2-B30, 1-6F 2-B30, 1-8F
EA-338, 339, 357,		A1. 41S Sporter	1-W20P1, 1-W34.	945, 9-437	2-B30, 1-8F
EA-312, 357-A, 385,	2 2 2 2 2 2 2 2 2 2	B-150	1-2F 1-3FA60	0-501	2-M30, 1-8FL 2-B30, 1-2F4
EE-340, 390, 401,		3A5	1-XX45.5-#2 cells	1 00, 02	1-2F4A60
EF-363, 424, 427, 428	2-M30, 2-G3	51F	2-Z30, 1-4F	6B7, 6B10	2-B30, 2-G3
CE259 CE263, CT275, CX305, DC308, CX263, CX283, CX284, CX308. DF302, DF306. DJ310, 311, 312, EA-338, 339, 357. EA-312, 357-A, 385, 389, 402, EA1-341, EE-340, 390, 401, EF-363, 424, 427, 428 DU-379, 380, 411.	1-XX45,2-#2 cells	30-71 72 73		WESTINGHOUSE	
FAUA		39-71, 72, 73, 40-74, 504 39-75, 40-81, 82,	2-B30, 1-4F	WR-674, 675 WR-676, 678, 679 WR-680, 681	2-B30, 1-8F 2-M30, 1-2F4L
P-40, PD-40, PL-40, P-47, PD-47, PL-58, PL-24 P-49, PD-49, P-58	2-B30, 1-8F 2-B30, 1-4F	39-75, 40-81, 82, 40-PT-63	1-4GA42	WR-680, 681	2-M30, 1-2F4L 2-M30, 2-G3
	2-B30, 1-4F	40-88	1-6FA60	TENITU	CONTRACTOR OF THE PARTY OF THE
FARNSWORTH AT-30	2-730 1-4F	41-81, 83	1-4GA41 1-2F4A60	4K400D, M, S, Y, L	2-B30, 1-4F 1-4FA60
AT-31	2-Z30, 1-4F 2-B30, 1-2F4	41-PT-87	1-G5A42	5G401, L. M, Y	1-F4B60
BT-58, BT-68	1-6FA60 1-XX45,2-#2cells	41-842T, 843T, 844T,	2-M30 2-G3	5G403, 405 6G501, 505, 5G500R	1-F4B60 1-G6B60
AT 31 BT-58, BT-68. CT-59 CT-60.	2-B30, 1-6F	40-PT-63 40-88 41-81, 83 41-84, 85 41-PT-87 41-842T, 843T, 844T, 41-853T, 854T	2-M30, 2-G3 1-2F4A60	4K400D, M, S, Y, L 4K402D, M, F, L 5G401, L, M, Y 5G403, 405. 6G501, 505, 5G500R 5G500, 501, 504	1-G4B50
- Later Delivery Control			The state of the s		

*For "General" battery equivalent of Burgess types shown here, refer to "General" listing on opposite page.

BATTERY KIT REPLACEMENTS FOR KNIGHT RADIO SETS

Stock No.	For Radio Set Models	NET	Stock No.	For Radio Set Models	NET
80-820 80-821 80-822	A10700, A10701, A10725, A10540, A10545, A10730, B10505, B10506, B17131, A10748, B10521, B10522, B10523, B10524, A10761, A10795, A10873, E10757 (after 8-39), N2812 (after 8-39)	2:41	80-852	A10775, A10785, A10786, A10787, A10788, A10790, A10792, A10879, A10880, A10882, A10884, A10885, A10886, A10887, A10892, A10892, A10896, A10897, A10898, B10520, B10542, B10547, B10548, B10558, B10574, B10581, E10912, E10913, E10914, E10915, E10916, E10917, E10914,	
80-708 80-824 80-825 80-826 80-827 80-557	A10826, E10715, E10716. A10848. A10855. A10872, A10889, E10061, E10758. E10755, E10756, N2870, N2871. E10757, (before 8-39) N2812 (before 8-39). E20775, E10777	2.36 2.56 2.30 2.77	80-830 80-831 80-832 80-577 80-834 80-835	B10562, B10563, B10564, B10565	2.74 2.45 1.79 2.80 5.80 5.80

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL. 125

CONVERTERS · BATTERIES · CHARG

POPULAR ATR RADIO INVERTERS—DC TO AC



Delivers 110 volt 60 cycle AC electric power from 6 or 12 volt batteries, 32 volt, 110 volt, or 220 volt DC systems. These inverters are designed especially for interference-free operation of AC all-wave radios, PA systems, radio-phonograph combinations, test equipment, and similar units from DC voltages in cars, boats, trains, farms and in DC districts. Plug-in vibrator has ten ½" diameter contacts which assure long life and reliable service. Features include: 4-point voltage regulator, fuse protection, on-off switch, metal case, etc. Supplied complete with filter which eliminates "ripple" and "hash," thus assuring quiet performance. Sizes: RSA 7½"x8½/s"x 4½"; RHA 7½"x9½/s"x6½."

RADIO TYPE WITH FILTER

Stock	Mfrs.	Input	60 Cycle	Wa	tts	Wt.		NET	
No.	Туре	DC Volts		Cont.	Inter.	Lbs.	List	EACH	
80-000	6-RSA	6	110V.	75	85	16	\$25.95	\$15.26	
80-001	12-RSA	12	110V.	100	125	16	25.95	15.26	
80-002	32-RSA	32 32	110V.	100	150	16 25	26.95	15.85	
80-004	32B-RHA 110-RSA	110	110V. 110V.	180	200		37.50	22.05	
80-005	110A-RSA	110	110V.	150 225	250 325	16	26.95 35.00	15.85	
80-006	110B-RHA	110	110V.	350	500	25 25	45.00	26.46	
80-007	110C-RSA	110	110/220V.	150	250	16	32.50	19.11	
80-008	110D-RSA	110/220	110/220V.	150	250	16	38.50	22.64	
80-009	220-RSA	220	110V.	150	250	16	26.95	15.85	

ATR MIDGET PHONOGRAPH **INVERTERS**



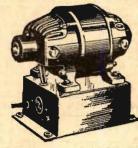
80-011. Model PCP-F. As above with RF noise suppressor. For AC record \$5.00 player motors. NET.

80-012. Model PCP-R. Like Model PCP-F but with leads. For phono-play-\$4.67 ers with AC motors. NET.....

ATR INVERTER FOR PORTABLE RECEIVERS



JANETTE DC TO AC ROTARY CONVERTERS



WITH BUILT-IN RADIO FILTERS

Converts DC to AC. Permits the operation of AC radio sets, sound systems or recording equipment, and other devices and appliances from 32 volt light plants or 115 volt DC lines. Compact, dynamically balanced, ruggedly designed, and built for long life. Efficient filter assures quiet radio reception.

115 VOLT DC TO 110 V. 60 CYCLE AC

Stock No.	Out- put Watts	in- put Amps.	Shpg. Wt.	YOUR
80-050	110	1.9	38 lbs.	\$29.69
80-051	150	2.4	38 lbs.	32.63
80-052	225	3.0	40 lbs.	38.07
80-053	300	4.0	61 lbs.	46.01
80-054	500	6.1	72 lbs.	60.56
80-055	750	8.5	95 lbs.	90.11
80-056	1000	11.0	130 lbs.	111.72

32 VOLT DC TO 110 V. 60 CYCLE AC

80-060	110	6.5	38 lbs.	\$29.69
80-061	150	8.5	38 lbs.	\$29.69 32.63
80-062	225	11.5	40 lbs.	38.07
80-063	300	15.0	61 lbs.	46.01
80-064	500	18.0	72 lbs.	60.56

We Can Supply converters with 6 volt DC input and with various output wattage ratings. Send us your order specifying requirements.

QUALITY BATTERY CHARGERS AND BOOSTERS MALLORY CHARGERS HOMCHARGERS



5-3 AMP. BOOSTER

Will keep radio and auto batteries fully charged. May be used in the home, garage, or mounted under hood of mounted under hood of cars, directly on the steering post with mounting bracket supplied. For operation on 115 V. 50-60 cycle AC current. No radio interference. Operating cost is extremely low. Size: 11"x7"x44". Shpg. wt. 8 lbs.

6 AMP. CHARGER

Will recharge a dead battery in from 12 to 16 hours. Will pay for itself many times each year. For 115 volt, 50-60 cycle AC. Size: 11x 7x4\frac{14}{2}. Shps. wt., 11 lbs. \$8.08

HEAVY-DUTY 10 AMP. CHARGER

GENUINE G. E. TUNGAR CHARGER



126

High-grade 5 amp. unit for low cost charging of any type 6-volt storage battery directly from the supply line. Famous General Electric quality construction. Delivers full 5-ampere rate to keep battery fully charged; automatic tapering feature prevents overcharging. Supplied with steering post attachment, AC cord. charger cord, tungar bulb, and full instructions. For 115 Volts, 60 cycle AC. Shpg. weight, 13 lbs. \$12.25

structions. For 115 Volt weight, 13 lbs. 80-027, NET.....

6 AMP. NO. 5535B



No. 3C BATTERY BOOSTER

Designed to meet the need of present day car batteries. Added equipment on your car tends to drag down your battery. Plug this Booster into your car for a few nights a week, and do away with starting difficulties. Output, 4 to 2 amps. 6"x3"/x"x3"/x"x3"/s. Shpg. wt., 5 lbs. For 110-115 V. 50-60 cycles.

80-031. NET.



KING COLE CHARGING RESISTOR

Resistance unit for charging any 6 volt radio or auto storage battery from 32 volt lighting systems. Maintains uniform charging rate and does not anjure batteries. Wt., 1 lb. \$ 1.47 78-000. List. \$2.50. NET

LEADER HYDROMETER



RADIART PAK FOR ELECTRIC SHAVERS



80-035. Type S-6a. Portable.
For 6 volts. With 2½ ft. cord and plug.
80-036. Type S-6b. For 6 volts. With permanent mounting bracket and 2½ ft. cord. 80-037. Type \$-32a. Portable. For 32volts. With 6 ft. cord and plug. \$4.55 NET EACH.....

KNIGHT STORAGE BATTERIES

Highest quality storage batteries storage batteries for radio equipment, low-voltage lighting systems, etc. Only finest materials are used. Wing-nut clamps on terminal posts. 98-010 and 98-011 are ideal for farm lighting plants. Shipped by freight or express.



2 VOLT BATTERIES Stock No. Plates A. H. NET We. 98-000 98-001

6 VOLT BATTERIES

98-005	13	95	40	\$5.50			
98-006	15	121	42	6.85			
98-007	19	155	53	8.85			
6 VOLT HEAVY-DUTY							

98-010 98-011 21 | 150 | 58 | \$ 9.90 25 | 180 | 70 | 13.35

EVEREADY AIR-CELL

98-020. Model A2600. Designed for 2-volt battery radios. Life, 1000 hours. For sets with maximum current drain of 660 ma. 24 lbs. Shipped express or freight only. \$4.51

FOR COMPLETE INDEX SEE **PAGES 198-199**

PORTA-POWER UNITS POWER PACKS

MALLORY VIBRAPACKS



Inexpensive, dependable source of power for portable radio receivers and transmitters, P.A., etc. Vibrator type units. †Operate from 6-volt storage battery. Willsupply up to 100 ma. Models 551, 552, G556, are self-rectifying; tube rectifiers are supplied with all other models. Less Filter. *Special dual packs for high output. VP-557 supplies 200 ma. VP-557 supplies 150 ma. VP-G556 operates on 12.6 V., supplies 100 ma Inexpensive, dependable VP-G556 operates on 12.6 V., supplies 100 ma. VP-F558 operates on 32 V., supplies 100 ma. Avge, shpg. wt., 10 lbs.

No.	Type	Output Voltage	EACH
80-100	VP-551†	125-150-175-200	5 8.82
80-101	VP-552†	225-250-275-300	10.88
80-102	VP-553†	125-150-175-200	9.70
80-103	VP-554†	225-250-275-300	11.76
80-104*	VP-555†	300	22.05
80-106*	VP-557†	400	22.05
80-105	VP-G556	225-250-275-300	11.76
	VP-F558	225-250-275-300	11.76
80-108	VF-223	Single Unit Filter	4.41

NEW MALLORY FILTERED VIBRAPACK



Complete "B" power unit for any electronic device operating 250 V. DC with 60 ma. drain; powered from 6 V. storage battery. For auto, marine and airplane broadcast or short-wave receivers. Self-receivers.

Ideal for mobile police receivers. Self-rectifying vibrapack is fully filtered. 7½"x31%6"x5½". Shpg. wt., 9 lbs. \$6-109. Type VP540. NET.. \$11.76

Send for Mallory Vibrapack Bulletin. 37-025. Mallory E555C Bulletin. FREE

MALLORY REPLACEMENT



RECTIFIERS

For battery chargers and boosters of Mallory and other makes. Also ideal power source for battery radio demonstration, coin machines, relays, etc. Univ. mtg. Wt., 3 lbs.

MOST POPULAR TYPES

56-170. Type IB12C1M. Replaces F12C1, IF12C1B, 12C1F, F12C1K, IB12	12C1.
X112, X12, U12, 3C Booster. \$2.	87
56-171. Type F16C3M. Replaces F16CB3, 16CD3, X116, X16, \$2	

56-172. Type F16C3MB. Re-places 16C3B, XB16, M16. NET. \$4.28

56-173. Type F24H1P. Replaces F24G1, W24A1. NET.... 37-024. Mallory Technical Bulletin containing rectifier data and circuits, sent FREE

ELECTRONIC CONVERTERS



Permits DC opera-tion of AC ap-pliances, radio sets, amplifiers, test, equipment, fans, etc. Ruggedly con-structed. Depend-able and long lived. Size, 834 x 6½ x 4½°, except 110 V. type which is 103/6 x 83% x 6°. Average shpg. wt., 15 lbs.

Stock	DC	Input	t AC Output		
No.	Volts	Amps.	Volts	Watts	NET
80-120	6	14.7	110	75	\$21.56
80-121	12	10	110	100	21.56
80~122	32	3.7	110	100	17.64
80-123	1110	1.6	110	150	25.16

TYPE 490 VIRRATOR

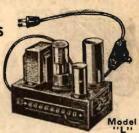
S6-185. For replacement purposes in Knight Mobile 6V.-110V. 30 Watt. Universal Sound Systems. \$7.84

GTC PORTA-POWER BATTERY ELIMINATORS



PLAY BATTERY SETS FROM AC POWER LINES

Enjoy the economy and convenience of an electric set. No batteries to replace. No weak or noisy reception because batteries are becoming low. Porta-Power units operate at peak efficiency always. Save their cost in a very short time.



STANDARD MODEL U FOR 1.4 VOLT SETS

Operates 1.4 or 1.5 V. midget or portable sets from 105-125 volt, 50-60 cycle current. Eliminates batteries. For use with sets having up to five tubes. Fits into battery compartment of most sets. Overall size, 2" x 3½" x 6". Simple to connect. Has sockets for every type battery plug. Insert battery plugs into Porta-Power and radio is ready for operation. Has copper sulfide rectifier for "A" current; 6P5GT tube for "B" current. Provides 1.5 V. "A" at 200 ma; 90 V. "B" at 13 ma. With 6' rubber cord, plug, and "on-off" power switch. Shpg. wt., 4 lbs.

80-170. NET.

HEAVY-DUTY MODEL G

FARM-TYPE MODEL L FOR 2 TO 3 VOLT SETS

to the total series of the total series of the series of t

HEAVY-DUTY MODEL P FOR 6 VOLT SETS

NEW MODEL C FOR USE WITH 6 VOLT BATTERY

Replaces "A" and "B" batteries in 1.4 volt portable or farm radios, having from 4 to 6 tubes. Operates from 6 volt storage battery. Supplies 1.4 V. "A" at 300 ma., 90 V. "B" at 10 ma. Hum-free operation. Has 6 battery type sockets. Size, 3½ x 6½ x 6'. Shpg. wt., 6 lbs. \$7.35

STERLING BATTERY **TESTERS**

Watch-case type testers for "B" Batteries. Dry Cells, Storage Batteries, etc. Portable testers have dual coil construction providing loads necessary for testing special portable A and B batteries. Indispensable for portable sets. Shpg. wt., 1 lb.

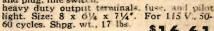
	sets. onpg. wt., 1 10.	TA
	Storage Battery Tester	
78-021.	0-35 Amps. For Dry Cells	59c
	0-50 Volts. "B" Tester	
78-023.	Combination 0-35 Amp.	and
0-50 Volts.	NET	88c

PORTABLE-RADIO BATTERY TESTERS

78-024.	0-50 Volts, 0-2 Volts\$	1.47
78-025.	0-100 Volts, 0-2 Volts	1.62
		1.62
78-027.	0-150 Volts, 0-10 Volts	1.76

STANCOR POWER PACKS **ECONOMY MODEL**

Excellent for autoradio sales, demonstration, and service test work. May also be used as a battery charger. Delivers 7 volts DC at 6.5 amps. on continuous duty or 4.5 volts at 12 amps., intermittent-ly. With 6 ft. cord and plug, line switch.



\$16.61 80-135. NET...

KNIGHT POWER PACKS



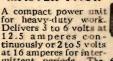
80-150. For operating receivers, experimental work

80-151. Same as above except has filament winding at 3 anips. for 2.5 volt tubes. Less 80 tube. Shpg. wt., 8 lbs. \$5.85

80-152. For Short Wave Receivers, Humfree, Substantially built. Delivers 250 V. DC at 40 ma. Has intermediate voltage-taps. 2½ volts C.T. at 5 amps. Size, 7½x4x1½". Less 80 tube. Shpg. wt., 9 lbs. \$5.98 NET

80-15.3. As above but for 6.3 volt tubes a 2 amps. Less 80 tube. Wt. 9 lbs \$5.85

MASTER PACK





80-136. NET..... \$25.43

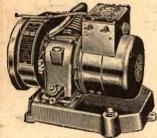
MASTER DELUXE PACK

An all-purpose heavy-duty pack. Delivers 3-6 V. at 16 amps. continuous duty, or 2.7 to 6.4 V. at 22 amps. intermittently. Will power autoradio display and operate largest push-button units. Provides 8 V. at 9 amps. for testing vibrators. Ripple less than 5%. Fuse and overhoad-relay protect pack and equipment being operated. All controls on sloping panel. Voltmeter indicates output voltage which is variable in approx. ½ V. steps. Size, 7 x 18½ x 11°. Shpg. wt., 50 lbs. \$57.33 80-137. NET.

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.

GAS ENGINE ELECTRIC PLAN

PIONEER "BLUE DIAMOND" 110 VOLT AC GAS-ELECTRIC PLANTS



Efficient dual-purpose Electric Power Plants for supplying AC and battery-charging DC. AC plants deliver 110 volts, 60 cycles for steady light, the same as supplied by power companies. Offer all the conveniences of 110 V. AC for areas where power line electricity is not available. Also provide a charging system for 6-volt storage batteries. The engine is a 4-cycle air-cooled unit with built-in mechanical governor to maintain constant speed of 1800 RPM. Generator is 4-pole type encased in rugged steel shell, connected directly to the engine crank shaft. No coupling is necessary. All parts are easily accessible by merely removing the end cover. All models (except BLA-6) listed have push-button starting as well as auxiliary rope-pull starter. Built-in cast-iron fuel tank holds 1 gallon. Will operate on low test gasoline.

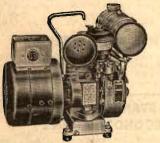
300 WATT AC-200 WATT DC

98-500. Model BD6. Supplies 300 watts at 110 V., 60 cycle AC, and 200 watts DC for charging 6-volt wet-cell batteries. Less filter and 6 volt starting battery. Gallon of fuel runs plant for 12 to 16 hrs. Size: 18"x14½"x 14½". Wt., 125 lbs. \$65.96

98-501. Model BDR6. As BD6 above but with remote control push-button starting and stopping and with ammeter and voltmeter in control box. Shpg. wt. 127 lbs. Less starting battery. 886.59

RADIO FILTERS

70-000. For 300 watt plant. Prevents power line noises. Wt., 3 lbs. NET. .\$4.95 70-001. For 600 and 1000 watt plants listed at right Wt., 3 lbs. NET...\$12.38



PIONEER 400 WATT AC-100 WATT DC PORTABLE PLANTS

1000 WATT AC MODEL

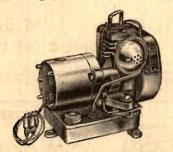
98-502. Model BA-10. Heavy-duty straight AC generator. Develops 1000 Watts at 110 V., 60 cycle AC. Used in electrifying farms, camps, etc. Air-cooled motor, push-button starting, with 12 V. battery (not supplied). I gallon runs unit 4 hrs. Size: 2014x20x211/6. 225 lbs. \$214.09

600 WATT AC MODEL

98-503. Model BA-6. A straight AC generator. Supplies 110 Volts, 60 cycle at 600 Watts maximum. Engine delivers 1 H.P. to generator. I gallon runs unit 7 hours. Pushbutton starting with 12 V. battery (not supplied). 17" x 191/4" x 20".

Shpg. wt., 190 lbs. NET... 148.09

NOTE: Add \$6.19 to above prices for special carburetor and valves to permit starting motors on gas, with switch-over to kerosene.

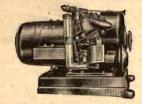


PIONEER GAS-ENGINE BATTERY CHARGER

A full-sized gas-engine generator that weighs only 77 pounds. Supplies 110 V., 60 cycle AC at 400 watts continuously (450 watts intermittently) or 100 watts DC for charging 6-volt batteries. Single cylinder, air-cooled, ½ h.p. single cylinder, air-cooled, ½ h.p. single cylinder, air-cooled type, with magneto ignition. Has batteries. Single cylinder, air-cooled type, with magneto ignition. Has cooled type, with magneto ignition. Has automatic cut-out relay and ammeter. Starts by push-button from 6 V. battery (not included) or by rope-pull. Built-in 2-quart gas tank in base. Size: 15½ long, 10½ % wide, 14½ % high, 11½ wide. Shpg. wt., 70 lbs.

98-504. Model BLA-6. NET.

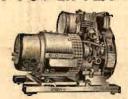
KATOLIGHT ECONOMICAL AC POWER PLANTS



350 WATT AC-110 V. 60 CYCLES

98-520. Model 19A. Designed for lighting

98-521. 500 WATT AC. Model 23A. Delivers 110 V., 60 cycle AC at 500 watts or 22 amps. DC for 6 V. battery charging. Has a Johnson 1 h.p. engine. Runs 9 hours on 1 gallon of gasoline. Size: 21" x 16½" x \$116.13



600 WATT AC-110 V. 60 CYCLE

600 WATT AC—110 V. 60 CYCLE

98-522. Model 14A. Delivers 110 V., 60 cycle AC at 606 watts or 22 amps. at 12 volts for charging storage-batteries. 1.4 h.p. 1-cylinder, air-cooled engine runs 6 hours on 1 gallon of gasoline. Filtered and shielded for radio operation. Has gasoline filter, oil-bath air-cleaner. With ammeter, cutout, battery cables, charge coatrol resistor, etc. For 12 V. battery or manual starting. Size: 17 ½" x 22 ½" x 19 ¾". Wt., 220 lbs.

S154.35

98-523.1000 WATT AC. Model 26A. Similar in specifications to Model 14A above, but output is 110 V., 60 cycle AC at 1000 watts, or 12 V. DC at 22 amps. Uses a 2.4 h.p. engine. Size: 31" long, 20" high, 18" \$219.03

We can supply gas engine-generators and power plants for 6, 12, 32 and 110 volts, and up to 10,000 watts. Write us, describing your requirements, and we shall quote promptly.

TINY-TIM GAS ENGINE BATTERY CHARGERS



6 VOLT-240 WATT MODEL

Model 62. A new battery charger by Continental Motors with many exclusive features. Output is 6 V. DC at 240 watts. Unit shuts off automatically when battery is fully charged. Charging rate is variable. Push-button starting from 6 V. battery (not supplied). Rope-starter pulley provided for manual starting. Operating cost is only 1c per hour. Lubrication is automatic. With carrying handle, ammeter. cutout, etc. 15½" long, 11¾" wide, 14¾" high. Shog. wt., 90 lbs.

98-530. NET.

6 VOLT—150 WATT MODEL

Tiny Tim Jr. Similar to Model 62 described above, but output is 6 V. DC at 150 watts. The heavy-duty generator is coupled directly to the single cylinder air-cooled engine. Has pushbutton starter for 6 V. battery (not supplied). Gasoline tank has a capacity of 2 quarts. Unit is mounted on a sturdy wood base. With carrying handle. Size: 15½ long, 11¾6 wide, 13¾6 high. Shpg. wt., 55 lbs.

98-531. NET

EICOR GAS ENGINE UTILITE POWER PLANTS



300 WATT AC-200 WATT DC

Model 3AP6. A compact, expertly-designed power plant with ignition shielding and radio filter. Output is 110 V., 60 cycle AC at 300 watts, or 6 V. DC at 200 watts. Quick-starting, single-cylinder, air-cooled engine rated at ½ h.p. at 1800 r.p.m. Flickerless light is assured by the fly-ball type governor. Tank holds 1 gallon of gasoline for 12 to 14 hours operation. Has shielded high-tension magneto ignition. Starting is either by rope pull or by battery (not supplied). Generator armature is connected directly to engine crankshaft. Brushes are easily accessible. Size: 12" high, 16" wide, 17" long. Shpg. wt., 115 lbs.

98-540. NET...

98-541. Model 3AR6. As above but for re-

98-541. Model 3AR6. As above but for remote control use. Has DC ammeter. Requires 6 V. battery. Wt., 117 lbs. \$3.81

KNIGHT WINDCHARGER

WITH 10-FOOT TOWER Get FREE POW-ER from the wind with this deluxe Hy-Tower Charger. Costs nothing to operate; delivers up to 16-20 amperes at 6 volts, direct current. Charges 6 volt storage batteries to supply current for radios, lighting service, etc. Features: weather-proofed, balanced-propeller; automatic tilt-back regulator; heavy-duty generator which cuts in at 370 RPM, and automatic turntable brake. With 10-foot all-steel tower and accessories. Wt., 75 lbs. \$ 21.75

NOT BE UNDERSOLD OUR PRICES ARE ALWAYS LOWER—WE WILL

We Present hallicrafters 2 Great SUPER-SKYRIDERS FOR 1942!

MODEL SX-28

- New 15 Tube Circuit
 Two Tuned RF Stages
 550 KC to 42 MC
 Frequency-Meter Tuning
 Adj. Noise Limiter

- Six Step Selectivity
 High-Fidelity Audio
 Inertia Tuning
 Temp. Compensated
 Full Bandspread

The Super Skyrider Model SX-28 receiver was designed as the result of exhaustive analysis of more than 600 reports and recommendations, including the specifications of government engineers. Cabinet is made of 16-gauge steel, finished in machine tool gray wrinkle; chassis of 14-gauge steel with flanged edges and flame-welded corners. Brushed cadmium plating protects the chassis and metal components, with special box-girder type shields covering the gang condenser and coil assemblies. Panel is ½-inch steel with morocco finish and etched control markings and will fit standard relay rack, if desired. The SX-28 uses 15 tubes: 1853 first RF stage, 65K7 second RF stage, 65K7 mixer, 65A7 HF oscillator, 61.7 1st IF-noise limiter, 65K7 2nd IF, 6B8 2nd detector, 6B8 AVC amplifier, 1853 noise amplifier, 6H6 noise rectifier, 6J5 BFO, 6SC7 audio driver, 2—6V6GT push-pull audio amplifier, and 5Z3 rectifier. Audio output impedance is 5000 ohms to match the Hallicrafters R-12 or PM-23 speakers, and 500 ohms for long lines.

HERE'S PROOF THE SX-28 IS TOPS!

Frequency Range: Tunes from 550 KC to 42 MC in six bands; No. 1—550 to 1620 KC, No. 2—1.5 to 3.1 MC, No. 3—2.9 to 5.9 MC, No. 4—5.75 to 11.5 MC, No. 5—10.3 to 21.5 MC, No. 6—20.4 to 42 MC. Controls: Micrometer scale main tuning and calibrated bandspread for 80/40/20/10 meter Amateur bands, both inertia controlled through pre-loaded ball-bearing mechanism, AF gain, RF gain, Tone Control, Bass boost switch, Antenna trimmer, AVC-BFO switch, Band-switch, Crystal phasing, Six-position selectivity, Adjustable Noise Limiter, BFO pitch, and Standby switch. Dials: Indirectly illuminated. Direct-reading vernier type main dial with dial lock. Wide-angle "S" meter: Calibrated in "S" units and db above "S9." Audio: High-fidelity push-pull andio stage with bass boost and bandpass filter. Input for phonograph pickup. Audio output, 8 watts undistorted. Cabinet Size: 20½ long, 10° high, 14¼ deep. Other Features: Extremely high usable sensitivity at all requencies, bands 1 to 5, 2 MV. or less; band 6, 4 MV. Improved signal to image and noise ratio; temperature compensation; semi-floating condenser gang. Speaker: Separate Hallicrafters-Jensen high fidelity type. Bass-Reflex speaker cabinet with 12° PM speaker available at extra cost. Power: Draws 138 watts from 110 volts, 60 cycle AC line. Weight: 75 lbs. net; shogs, wt., 87 lbs.

97-520. SUPER SKYRIDER MODEL SX-28. With tubes and crystal, Less speaker. CASH PRICE.

Terms: \$44.87 down, \$17.84 monthly for 8 months.

HALLICRAFTERS BASS-REFLEX SPEAKER

MODEL SX-32

- 13 Tube Superhet
 500 KC to 40 MC
 Auto. Noise Limiter
 Calibrated Bandspread
 3-Step Crystal Filter

- Push-Pull 6V6GT Audio
 Two Tuned RF Stages
 Six-Step Selectivity
 Amplified AVC
 Inertia Tuning Dials

Taking its place in a long line of "winners," the Super Skyrider SX-32 brings top-notch performance to the medium-priced receiver field. Retaining many of the features of the SX-28, the SX-32 with its effortless ease of operation will delight the most critical Amateur or SWL. The attractive morocco-finished ½" thick steel panel fits standard relay rack if desired; machine tool gray wrinkle-finished cabinet and cadmium plated steel chassis are flame-welded of heavy gauge stock for maximum strength. Uses 13 tubes, including rectifier, 6H6 Noise Limiter, pushpull 6V6GT audio output, two tuned RF stages, two IF stages, and separate temperature-compensated high frequency oscillator and mixer tubes. Frequency coverage is from 500 KC to 40 MC in six bands. Main tuning dial is of the micrometer scale type, accurately calibrated band-spread dial calibrated for Amateur 80, 40, 20, and 10 meter bands; both dials indirectly illuminated and inertia controlled.

HAS SIX-STEP VARIABLE SELECTIVITY

Controls are: RF and AF gain, ANL, BFO pitch, Bandswitch, Tone control, Antenna trimmer, Crystal phasing, AVC on-off and BFO switch, Selectivity control, wide-angle "S" meter calibrated in "S" units and db. direct-reading vernier-type main tuning, calibrated bandspread tuning, and headphone jack. Six-step selectivity ranging from "Broad" to "Sharp CW Crystal" coupled with improved signal-to-image and noise ratio and extremely high usable sensitivity permits maximum performance under widely varying conditions. Additional features are: Amplified AVC action, semi-floating gang condenser, rugged cabinet especially designed to provide adequate ventilation, special box-girder type shields over condenser gang and coil assemblies, and 5000 ohm and 500 ohm-output for speaker or long line. Audio output is 8 watts undistorted. Cabinet size. 201/s" long, 10s high, 141/s" deep. Operates from 110 volts, 60 cycles AC. Shpg. wt., 87 lbs.

97-521. SUPER SKYRIDER MODEL SX-32. With tubes and crystal. Less speaker. CASH PRICE

Terms: \$37.38 down, \$14.86 monthly for 8 months.



The Model SX-28 receiver with R-12 Halli-crafters-Jensen 12". Bass-Reflex speaker is one of the finest all-purpose radio receivers available at any price! For the Amateur or SWL who wants the "tops" in Communica-tion or Short-wave reception or as a precision set for use in the home, we recommend the SX-28—R-12 combination. Wt., 159 lbs. 97-522.

97-522. CASH PRICE.....\$214.00 \$53.50 down, \$21.27 monthly for 8 months.

SX-32 WITH R-12 SPEAKER

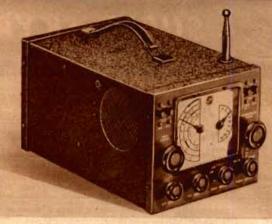
For the discriminating Amateur or SWL we offer this "matched" combination of the SX-32 receiver complete with the R-12 12" PM speaker in Bass-Reflex cabinet. Here's an attractive, smooth performing combination that is more than "just another receiver." Buy it on ALLIED's economical Time Payment Plan. Wt., 159 lbs. \$184.00 97-523. CASH PRICE

\$46.00 down, \$18.29 monthly for 8 months.



World-Famous hallicrafters





THE "SUPER DEFIANT" SX-25

It's a "world-beater" for value! Designed and built with typical Hallicrafters precision, the SX-25 uses 12-tubes, including rectifier, and tunes from 540 KC to 42MC, with Frequency-Meter tuning, Among its many desirable features are: Illuminated "S" meter, calibrated in "S" units and db.; Six-step selectivity with crystal filter; Automatic Noise Limiter; Drift-compensated oscillator; Standby switch with break-in relay terminals; Variable pitch BFO; Antenna input for Marconi or doublet; Speaker terminals for either 5000 ohms or 500 ohms; and Bass-treble tone control. Panel controls are: Main tuning, Bandspread tuning, Crystal phasing, Standby switch, and BFO control. Two TRF stages provide ample selectivity and sensitivity. The SX-25 is supplied with tubes and crystal. Separate 10" PM speaker in metal cabinet matches the receiver, Finished in attractive gray wrinkle. 19½" long, 9½" high, 11½" deep, Has provisions for operation from emergency battery bank or from electroniconverter. For operation on 110 volts, 50-60 cycles AC.

Shpg. wt., 45 lbs.

97-513. MODEL SX-25, less speaker. NET CASH PRICE.

97-513. MODEL SX-25, less speaker, NET CASH PRICE. \$9450 Terms: 523.62 down, 59.39 monthly for 8 months.

97-516. MODEL SX-25, with speaker. Shpg. wt., 60 lbs. NET CASH PRICE \$109.50

Terms: \$27.38 down, \$10.88 monthly for 8 months.

THE NEW S-29 "SKY TRAVELER"

THE NEW S-29 "SKY TRAVELER"

The Model S-29" Sky Traveler "provides true communication performance in a unit so compact, so easily carried with you, that you'll want to make it your constant companion wherever you go. It operates on 110 volts, either AC or DC; and in addition it operates from self-contained batteries! Tuning range is from 542 KC to 30.5 MC in four bands, with full electrical bandspread available at any desired portion of the tuning range. The S-29 uses new 1.4 volt tubes as follows: 174 RF stage, 1RS mixer, 2-1P5GT IF's, 1H5GT Detector-AVC-Audio, 3Q5GT Audio Amplifier, 1G4GT Beat Oscillator, 1G4GT Noise Limiter, and 50Y6GT Rectifier. Controls are: Main tuning, Bandspread, RF gain, AF gain, Bandswitch, Power switch, AVC, BFO, Noise Limiter, and Standby switch. Has built-in speaker with jack for headphone use. Antenna input for doublet or single wire antenna, but also has a self-contained collapsible antenna for portable use, Improved Noise Limiter citcuit and permeability-tuned RF and IF circuits contribute to exceptionally fine performance. Extremely rugged construction. Metal cabinet is finished in black crackle; size, 7*x8½/*x13½.* Weight, including batteries, only 18 lbs. Shpg, wt., 23 lbs.

97-514. MODEL S-29. With tubes and batteries.

Time Payments: \$17.38 down, \$9.21 monthly for 6 months.

Time Payments: \$17.38 down, \$9.21 monthly for 6 months.



THE "SKY CHAMPION" 5-20R

THE "SKY CHAMPION" S-20R

Meet the Sky Champion in its price class. It's "got what it takes" to make it a favorite with the Short-Wave DX fan and Amateur operator. Among its many features are: Separate Bandspread Dial, RF and AF Gain Controls. Individual Coils for each band, Inertia Tuning Mechanism, Beat Frequency Oscillator, AVC Switch, Tone Control, Beat Oscillator Switch, Send-Receive Switch, Pitch Control, Band Switch, Phone Jack, and others. Here, too, is continuous tuning in four overlapping bands from 540 KC to 44,000 KC for dependable reception on Broadcast, Amateur, and Short-Wave bands. Nine tubes including rectifier: 3—6SK7, 6K8, 6SQ7, 6F6G, 6J5GT, 6H6, and 80—in a circuit which provides maximum gain, selectivity, and sensitivity. Speaker is builtin—there's nothing else to buy. Signal-to-noise ratio is surprisingly high. In fact, in every way, the Sky Champion is a superefficient low-priced receiver that will put a real thrill into SW DX-ing or Amateur operation. Has provisions for operating from batteries or from vibrator type power pack and 6 V. battery, for emergency service at locations far removed from the 110-volt AC supply lines. For 110 V. 50-60 cycles AC. Size: 18½' long, 8½' high, 9½' deep. Shpg, wt., 34 lbs.

Part CASH PRICE.

Time Payments: \$13.63 down, \$7.22 monthly for 6 months.

Time Payments: \$13.63 down, \$7.22 monthly for 6 months.

Time Payments: \$14.88 down, \$7.89 monthly for 6 months.



THE "DEFIANT" MODEL 5X-24

THE "DEFIANT" MODEL SX-24

The SX-24 is not just an economically priced receiver, but is truly outstanding in its brilliant performance. Frequency Meter Tuning is provided by means of two translucent illuminated tuning dials, one for main tuning control and one for the electrical bandspread system; both are directly calibrated. Main dial is calibrated in MC, bandspread dial accurately calibrated for the Amateur 80, 40, 20 and 10 meter bands. Built-in Noise Limiter, Variable Selectivity in six positions from Sharp Crystal to Broad IF provides any desired degree of Selectivity for CW or 'phone reception. Carrier Level meter calibrated in "S" units and db. Double-balance bridge-type crystal filter. Frequency stabilization and a full four-band tuning range from 540 KC to 43.5 MC—all contribute to peak performance. TRF stage and two high-gain IF's provide ample sensitivity and selectivity. Finished in attractive gray wrinkle. High-quality Jensen 10" Permanent Magnet dynamic speaker is supplied in gray wrinkle metal cabinet with chrome trim to match receiver. Supplied complete with 3—65K7, 1—6K8, 1—65C9, 1—6F6G, 1—6H6, 1—76 and 1—80 tubes. For 110 volts, 50-60 cycles AC; with provisions for operation from battery bank or electronic converter for emergency use. Size, 19½° x 9½° x 10½°. Wt., 40 lbs.

97-511. MODEL 5X-24, less speaker.

NET CASH PRICE.

Time Payments: \$18.63 down, \$9.87 monthly for 6 months.

Time Payments: \$18.63 down, \$9.87 monthly for 6 months.

97-512. MODEL SX-24, with speaker. Shpg. wt., 55 lbs. NET CASH PRICE......

Time Payments: \$22.38 down, \$8.90 monthly for 8 months.

Receivers..



THE SKYRIDER "MARINE"

THE SKYRIDER "MARINE"

Designed for specialized communication requirements. For consistently dependable reception in the Marine and Aircraft service, for jewelers who look for reliable time-signal reception, Press and Relay services, Broadcast and Coastal standby service, the Skyrider Marine is unexcelled. Total tuning range is 110 KC to 18.5 MC (2150 meters to 16.2 meters) available in four over-lapping frequency bands. Powerful improved 8-tube circuit uses 3—65K7, 1—615, 1—6K8, 1—65Q7, 1—25L6, and 1—25Z5 rectifier tubes. Sensitivity and selectivity are excellent, IF selectivity is only 18 KC wide at 10 times down, Greatly improved image rejection at the higher frequencies is achieved through the use of a 1600 KC IF amplifier system. Main tuning dial is directly calibrated over 338 degrees; coupled through slow ratio mechanism to the separate mechanical-bandspread dial to provide easy and simplified tuning. Sturdy metal cabinet finished in black wrinkle. All metal parts are covered with special plating or finish process for protection against weather or varied climatic conditions. Controls are: Tuning, AVC, BFO, RF and AF gain, Tone, Bandswitch, and Standby switch. Built-in speaker is automatically muted when headphones are plugged into phone jack. 18½° long, 9¼° deep. 8½° high. For 110 volts, AC-DC operation. For 6V, DC, use electronic converter. (See page 126). With tubes. Shpg. wt., 311bs.

97-501, SKYRIDER MARINE MODEL S-22R, \$7450 NET CASH PRICE.

Time Payments: 518.63 down, \$9.87 monthly for 6 months.



MODEL S-27 FM-AM RECEIVER

A 15-tube Ultra-High-Frequency receiver designed for reception of either Amplitude-Modulated or Frequency-Modulated signals, Ideally suited to the specialized requirements of Municipal departments, Amateurs, Broadcast-Relay systems, Airline and Government services, etc. Range: 27 MC to 145 MC, continuous coverage in 3 bands. Tubes: 956 RF Ampliner, 954 lst Detector, 955 Oscillator, 1852 1st IF, 1853 2nd IF, 65K7 3rd IF, 1852 Limiter, 6H6 Frequency-modulated detector, 6H6 Amplitude-modulation detector and ANL, 6C8G Audio amplifier and Phase inverter, 2—6V6 Push-pull Audio amplifier, 6J5 Beat Oscillator, VR-150 Voltage Regulator, and 5Z3 Rectifier. Controls: Tuning, RF gain, AF gain, Antenna trimmer, IF Selectivity, BFO, BFO pitch, AVC, Noise Limiter, Tone, FM-AM, Standby switch, Features: Silver-plated condenser gang contacts; Flywheel gear-driven tuning mechanism with separate bandspread scale having 2400 divisions for full rotation; Shock-mounted RF assembly; Plate-tuned oscillator; Air-tuned iron-core IF's, and Zerocenter 'S' meter for accurate and easy tuning of FM signals. Speaker output, 5,000 ohms. For 110 volt, 60 cycles AC. 19' long, 9' high, 14' deep. Shpg, wt., 75 lbs.

97-502. MODEL 5-27, with tubes, less speaker.

NET CASH PRICE.

Time Payments: \$48.75 down, \$19.38 monthly for 8 months.

Time Payments: \$48.75 down, \$19.38 monthly for 8 months.

Model S-27B. Ultra-High-Frequency FM-AM receiver with tuning range of 36 MC to 160 MC in 3 bands. Band \$1, 36-60 MC; Band \$2, 56-94 MC; Band \$3, 92-160 MC. In all other respects exactly the same as Model S-27 above. For 110 volts, 60 cycles AC. Wt., 75 lbs. 97-503. MODEL S-27B, with tubes, less speaker. \$195.00

Time Payments: 548.75 down, 519.38 monthly for 8 months.



The "SKY BUDD!

For the beginning Amateur, the Short-Wave Listener, or the boy in quest of new thrills by way of Short-Wave Radio, the Sky Buddy has always been the outstanding low-cost choice. This latest improved model offers even greater value than ever before Tunes with full electrical band-spread from 545 KC to 44,000 KC in four bands and covers Standard Broadcast and Short-Wave Broadcast bands as well as the Amateur 160, 80, 40, 20, and 10 meter bands. Features are comparable to those usually found only in higher-priced receivers: separate band-spread dial, Beat Frequency Oscillator, send-receive switch, AVC switch, Pitch control, AF gain control, phone jack, etc.

OPERATES FROM 110 VOLTS AC OR BATTERIES

OPERATES FROM 110 VOLIS AC OR BATTERIES

The Sky Buddy has built-in speaker offering excellent tone quality. Uses only six tubes including rectifier: 1—6K8, 1—6SK7, 1—6SQ7, 1—76, 1—41, and 1—80—but its performance is like most 8 tube sets. Antenna input for doublet or Marconi type systems. Headphone jack cuts out speaker when 'phones are plugged in. Although supplied for AC operation, the Sky Buddy is also equipped with a plug and socket arrangement at the rear which permits use of a 6 volt storage battery and 'B' batteries or vibrator power pack for portable use or where AC lines are not available. With set of matched tubes and complete instruction manual. The Sky Buddy is a true communication-type receiver at a very moderate price. For 110 V. 50-60 cycles AC current. Shpg. wt., 20 lbs.

97-500, MODEL 5-19R "SKY BUDDY."

S3250

NET CASH PRICE...

Terms: 58.13 down, 56.46 monthly for 4 months.

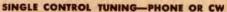
Terms: \$8.13 down, \$6.46 monthly for 4 months.

NEW HALLICRAFTERS MODEL 5-33 AMATEUR SKY TRAINER

- 21/2-Meter Transceiver
- For Voice or ICW
- * Junes 112-118 MC
- Built-in Mike
- · Push-to-Talk Switch
- * Built-in Speaker
- New 3 Tube Circuit
- · Matched Antenna
- Battery Powered Complete, No Extras
- With Tubes, Batteries
- * Weighs only 16 lbs.

Designed by the famous Hallicrafters Laboratories, the Sky
Trainer is the Amateur version of the Ultra-compact-UHF 2-way radio set. An ideal unit for the advanced Amateur or beginner, providing as it does a complete 2½-meter station in one easily carried unit. Encased in a sturdy steel cabinet with carrying handle, the S-33 is complete and entirely self-contained—there are no additional accessories to carry or tolose. Uses 1—3Q5 tube as RF oscillator in transmit position and as self-quenching detector in the receive position.

1—1H5 tube serves as microphone amplifier for transmitting and as 1st audio stage when receiving. 1—3Q5 tube serves as power output stage for receiving and as modulator stage for transmitting. Talk-Listen switch on front panel; to transmit, just press lever down and talk—to listen again just release lever. Can be used for transmission of ICW code signals by inserting key into jack provided for it.



Only one tuning control covers range of 112-118 MC; functions as frequency setting control for either receiver or transmit positions. Built-in PM speaker in front panel serves as mike for transmission of voice. No additional mike or headphones is required. "Matched antenna mounts on low-loss terminals on side of cabinet. Uses 2 Eveready #482 and 2 Eveready #746 batteries. Panel controls consist of Tuning control. Volume, Talk-Listen switch, Key Jack. Size: 10° high, 6½° wide, 4½° deep. Total weight with all batteries is only 16 lbs. Complete with tubes, batteries and antenna. Shpg. wt., 18 lbs.

97-504. MODEL 5-33 SKY TRAINER. NET CASH PRICE.

Terms: \$7.38 down, \$5.86 monthly for 4 months.

HOWARD AMATEUR RECEIVERS







HOWARD "PROGRESSIVE SERIES" RECEIVERS

The Howard "Progressive Series" Plan protects your investment in your receiver, ends trade-in loss and obsolescence! Your Model 435-A receiver can be converted at a later date to a Model 436-A at the factory for only \$12.00, or to a Model 437-A for only \$27.55! The Model 436-A

receiver can likewise be converted to a Model 437-A for only \$21.00 (\$28.50 with crystal). We Can Supply all Howard Communication receivers and accessories. For complete data on all Howard receivers ask for 37-125 Howard Catalog. SENT FREE ON REQUEST.

MODEL 435-A

MODEL 435-A

The Model 435-A is a 7-tube receiver (including rectifier), with a TRF stage on all bands! Tunes from 540 KC to 43,000 KC in four frequency range bands; controlled by a selector switch on front panel. Range indicating pointer at side of multi-scale full-vision dial tells you at all times exactly which frequency range is in use. Full-vision dial is of the slide-rule type with travelling vertical marker for main tuning; separate bandspread indicator dial at side. Bandspread dial can be used to spread out any desired portion of the total tuning range, permitting better reception of stations in closely crowded bands. Features include: Iron-core If's, Beat Oscillator with adjustable pitch control, Electrical bandspread. AVC, Send-Receive standby switch, Audio gain control, built-in 6½° dynamic speaker and power supply, provision for external speaker, and socket for 610 pack for 6 V. DC operation. Compact table cabinet; gray wrinkle finish. For 115 volts, 50-60 cycles AC. Complete with tubes. Shaps. wt., 25 lbs.

\$8.74 down, \$6.95 monthly for 4 months.

MODEL 436-A

Here is a truly fine little communication receiver that incorporates all of the features of the basic Model 435-A, yet has additional refinements to make it literally a "stand out" in the medium price class. Uses eight tubes including rectifier. Has TRF stage on all bands! Continuous coverage from 540 KC to 43,000 KC in four ranges. Full-vision slide-rule dial has band-in-use indicator at one end with bandspread scale at other end. Both main tuning and bandspread tuning controls use new Howard Inertia Knobs to provide effortless fly-wheel tuning. Electrical bandspread can be obtained at any desired point in the total tuning range. Built-in 6½ inch dynamic speaker, with provision for external speaker. Has external socket for addition of the No. 610 power pack. Efficient automatic noise limiter circuit increases signal-to-noise ratio. Entirely self-contained in a small and compact table model cabinet, gray wrinkle-finished. For 115 volts, 50-60 cycles. Supplied complete with tubes. Stags. wt., 25 lbs.

97-601. CASH PRICE.....

\$9.99 down, \$7.94 monthly for 4 months.

MODEL 437-A

MODEL 437-A

The Model 437-A is "tops" in the Howard Progressive receiver series. Uses 9 tubes including rectifier. Has TRF stage on all bands! Tunes from 540 KC to 43,000 KC in 4 bands, covers all important short wave and experimental frequencies. Selection of desired band is by means of panel band-change switch. The Model 437-A, like the 435-A and 436-A, is housed in an attractively styled, sturdy metal cabinet. Built-in 6½" dynamic speaker; muting-type headphone jack is provided to shut off speaker automatically when phones are used. Exceptionally high selectivity is assured by the two iron-core IF amplifier stages; further selectivity for both phone and CW is provided by the crystal filter. The 437-A has all controls used in the 436-A plus crystal in-out switch and phasing control. Gray wrinkle finish cabinet. For 115 volts 60 cycles. Supplied complete with tubes. Shpg. wt., 27 lbs.

97-602. MODEL 437-A, less

55950 crystal. CASH PRICE.

\$14.88 down, \$7.89 monthly for 6 months. 97-603. MODEL 437-A, with crystal. CASH PRICE......\$67.00 \$16.75 down, \$8.88 monthly for 6 months.



NEW! HOWARD AC-DC MODEL 445

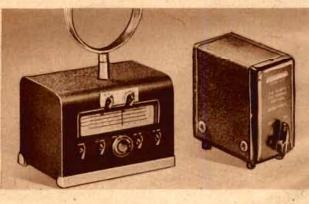
The Howard Model 445 receiver gives you full 9 tube performance with only 6 tubes, and operates from 105-117, 120-150, and 210-240 volts either AC or DC! Identical in appearance to the Model 435-A, the 445 covers a continuous tuning range of 540 KC to 43 MC. Range indicator shows which of the four frequency bands is in use. Full vision multi-scale slide-rule type dial; separate 180 degree scale for bandspread. Features include: 3-gang condenser, TRF stage on all bands, adjustable pitch BFO, Iron core IF's, built-in speaker, provisions for external speaker, calibrated main dial, electrical bandspread, headphone jack, and universal AC-DC operation. Tubes used are: 12SG7 RF, 12SA7 Converter, 12SF7 IF-Diode, 12SC7 AF-BFO, 35L6 Beam Power output, and 35Z5 Rectifier. Compact gray wrinkle finished cabinet. With tubes. Wt., 25 lbs.

Terms: \$8.74 down, \$6.95 monthly for 4 months.

HOWARD MODEL 490

Professional type 14 tube communication receiver designed to Government specifications. 5 band tuning range from 540 KC to 43.5 MC; laboratory type drum dials for main tuning and bandspread; nine position selectivity; signal level meter; crystal filter; many other features. See Howard catalog 37-125 (Free on request) for full details. Wt., 57 lbs.

Terms: \$42.38 down, \$16.85 monthly for 8 months.



"650" PRESELECTOR

"650" PRESELECTOR

Consists of two tuned RF
stages, having an extremely
high order of usable gain,
with exceptional sensitivity
to weak signals. Designed so
that it may be used with any
receiver. Will pep up reception and make many signals
that were unreadable on the
receiver alone audible at good
signal strength. Has provision
for use of either single wire or
doublet antenna or for the
built-in loop with three-position antenna switch. Full tuning coverage from 540 to 43,000 KC. Loop antenna can be
rotated through 360 degrees
to get most effective directional characteristics to eliminate QRM or unwanted signals. For operation on 115
volts, 50-60 cycles AC. Shpg.
wt., 20 lbs. Supplied less loop.
88-300.
CASH PRICE \$29.95

\$7.49 down, \$5.96 monthly for 4 months.

88-301. Set of four Loop Antennas. Cover complete tuning bands of 540KC to 34 MC. NET......\$7.50

"610" POWER PACK

"610" POWER PACK
A compact, vibrator-type power supply for use with the Howard Models 435-A, 436-A, and 437-A receivers when operated at points not supplied with 115 volts 60 cycles AC. Can also be used with other small receivers or for emergency transmitters of low power. Connecting cable has polarized plug to fit socket provided on Howard receivers. Static shield in cable prevents RF pickup and radiation of vibrator noise. RF chokes in plate voltage lead insure quiet operation of receiver at high frequencies. Operates from a single 6-volt storage battery. Supplies 6 volts DC for filaments and 300 volts at 60 ma. When used with Howard 435-A receiver, total drain on supply battery is only 6½ amperes; total drain at full load of 60 ma. is 7½ amps. Has on-off switch on front. Overall case size, 6° high, 5½ deep, 3° wide. Shpg. Wt. 8 lbs.

88-302. NET... \$12.50

NATIONAL

COMMUNICATION RECEIVERS

NC-200 FEATURES

- * Tunes 490 KC to 30 MC
- Ten Frequency Ranges
- * Full Calibrated Tuning
- Six-Step Selectivity
 Uniform Bandspread
- * 30-1 Tuning Ratio



THE NC-200 IS NATIONAL'S FINEST!

The National NC-200 receiver with its many newly developed features represents one of the most outstanding developments of the famous National engineering staff: Twelve tubes are used: 6SK7 Tuned RF stage, 6K8 First Detector, 6J5 HF Oscillator, 6K7 1st IF, 6SK7 2nd IF, 6C8G Second Detector-Limiter, 6SJ7 AVC, 6SJ7 BFO, 6F8G Phase Inverter, 2—6V6 Push-pull Audio, and 5Y3G as rectifier. A full-vision dial operated through a 30-1 gear drive is accurately calibrated on ten frequency ranges. Six of these ranges are for general coverage over the total tuning range from 490 to 30,000 KC; four additional ranges provide calibrated bandspread of the Amateur 80/40/20/10 meter bands. Automatic range-in-use indicator is built in the dial. Bandspread on Amateur bands is extremely generous, covering most of the 180° dial scale; no resetting is necessary to return to any pre-logged station or frequency. Uniform bandspread is provided through a unique tapped coil arrangement similar to that used in the famous HRO receiver, and the same knob used for tuning is used to shift bands through a clever mechanical device developed especially for the NHU and NC-200 receivers. The sensitivity of the NC-200 is particularly high, with an input signal of only 1 microvolt providing 1 watt of audio output. Newly developed RF coupling circuits provide full sensitivity up to the extreme high end of the tuning range at 30 MC. All RF and IF coils are wound on molded polystyrene coil forms, assuring freedom from circuit losses caused by humidity. All critical components, such as tuning and trimming condensers, are insulated with isolantite, to insure high stability at all frequencies. Temperature compensation in the high frequency oscillator, RF stage, and first detector circuits reduces frequency drift to a negligible value. Six step selectivity provided by a new type crystal filter will meet with instant approval from the most critical amateur or commercial operator. Other important features are: Wide range adjustable series-valve-noise

limiter, calibrated signal level meter, provision for battery operation in emergencies, standby switch, separate 10" PM speaker in matching metal cabinet, attractive modern cabinet finished in two-tone gray and chrome, self-balancing phase inversion circuit, 8 watts undistorted audio output, image ratio of better than 30 db. at 10 meters, separate high frequency oscillator and first detector tubes, absolute minimum of inherent circuit noise, and an attenuator type tone control. All controls are conveniently grouped for maximum simplicity in operation. Controls include: Combination tuning and band-change knob, RF and AF gain controls, BFO on-off and variable pitch, 3 position fil-plate-standby switch, Crystal selectivity, Crystal phasing. The high selectivity and sensitivity of the NC-200 provide a new standard of overall performance. The NC-200 will satisfy even the most critical operator. Supplied complete with tubes, crystal, speaker and instructions. For 115 volts, 50-60 cycles. Shpg. wt., 95 lbs.

97-650. NATIONAL NC-200TG, COMMUNICATION RECEIVER.

CASH PRICE

Time Payments: \$43.63 down, \$17.34 monthly for 8 months.

Time Payments: \$43.63 down, \$17.34 monthly for 8 months. 97-651. NATIONAL NC-200 RG. Same as above but for Rela Rack mounting. With rack-panel mounted speaker. \$188.0 \$188.00

Time Payments: \$47.00 down, \$18.69 monthly for 8 months.

We can also supply all other National Communication Receivers, as well as National Transmitters. Write for literature.

37-002. National Catalog—Sent FREE on Request.



NEW! NATIONAL MODEL NC-45

An improved model of the famous NC-44, the NC-45 is an 8-tube receiver covering the entire range from \$40 KC to 30 MC in four bands. Operating from either AC or DC, the NC-45 fulfills the need for a universal type communications receiver, capable of high performance at moderate cost. Tubes used are: 6K8 1st Det.-HF Osc. 2—6L7 permeability-tuned 1F's, 6SQ7 combined 2nd Det.-AVC-1st AF, 6H6 self-adjusting series-valve noise limiter, 6J5 BFO, 25L6G Beam power audio output, and 25Z5 rectifier. One of its finest leatures is the ease of accurate tuning made possible by a straight-line-frequency condenser in conjunction with a separate bandspread condenser. Slide-rule type dial has calibrated main tuning and separate scale for electrical bandspread with vernier tuning. Housed in gray wrinkle finished cabinet with speaker in matching cabinet. Supplied with tubes and speaker. Operates from 105-130 volts AC or DC. Shpg. wt. 45 lbs.

97-652.

CASH PRICE
Terms: \$14.38 down, 57.62 monthly for 6 months.

NC-45A. For operation from straight 110 volt, 50-60 cycle

NC-45A. For operation from straight 110 volt, 50-60 cycle AC only. Otherwise identical to the NC-45 above. This straight AC model is recommended for use where 50-60 cycle current is available. Wt. 45 lbs.

97-653. CASH PRICE.

Terms: \$14.38 down, \$7.62 monthly for 6 months.

NC-45B. A battery model of the NC-45. Operates from 6 V. storage battery and 135-volt "B" batteries. Less batteries.

97-654.

CASH PRICE

Terms: \$14.38 down, \$7.62 monthly for 6 months.



HAMMARLUND MODEL HQ-120X

HAMMARLUND MODEL HQ-120X

The Hammarlund HQ-120X receiver was designed to meet the most critical demands of both the Amateur and the professional operator. This ultra-modern 12 tube including rectifier receiver covers a continuous range from 540 KC to 31 MC in 6 bands. Special tuning condenser construction permits 310 degrees of bandspread for each Amateur band; direct calibration of tuning dial permits accurate logging. A new type of crystal filter giving six positions of selectivity for 'Phone or CW makes operation a pleasure even under unusually crowded conditions of reception on Amateur bands. Built-in noise limiter circuit overcomes objectionable noise disturbances; operates with or without AVC on and is controlled by panel on-off control. "S" meter indicates in "S" units and is calibrated S1 to S9 and up to 40 DB above "S9." Tuned preselector stage with three high-gain IF stages produces highest possible signal-to-noise ratio with maximum attenuation of image frequencies. Panel control of antenna compensator permits adjustment for peak performance on each band. Send-Receive switch with external break-in relay terminals. Automatic-voltage regulator compensates for line variations. Gray Crackle finished cabinet and etched panel. Supplied with 10" speaker. For 110 volts, 50-60 cycles AC. Shpg. wt., 47 lbs.

97-680, HQ-120X, with tubes and speaker.

Terms: \$34.50 down, \$13.72 menthly for 8 menths.

Terms: \$34.50 down, \$13.72 menthly for 8 months./ 97-681. SC-10 Gray cabinet for HQ-120X speaker..\$3.90

We can also supply the Hammarlund Super-Pro Professional Com-munication receivers. Descriptive bulletin with prices on request. 37-022. "Super-Pro" Booklet—Sent FREE on Request.

STANCOR TRANSMITTER KITS







10-P TRANSMITTER KIT

An easy-to-assemble little phone-CW rig that packs a real wallop on any band from 160 to 20 meters. Completely self-contained. Uses 1—615 as a Pierce crystal oscillator, 1—6L6 as RF amplifier, and 1—6L6 as combined speechamplifier-modulator with input for single-button type carbon mike. Only one inexpensive Bud Midget coil required for each band (see coil listing on page 149). Plate input up to 12 watts for phone, 20 watts for CW. Low impedance output for connecting to link line or direct to 72 ohm antenna feed line. Kit contains all parts necessary, including cabinet. Accessories (not supplied) are: 1—615, 2—6L6, and 1—80 rectilier, 1 Triplett 2* square 0—100 ma. meter, crystal, carbon microphone and plug-in coils. Model 10-P is ideal as an auxiliary rig or for portable use away from home location. Can be assembled and wired in a minimum of time. Operates from 115 volts, 60 cycles. Shpg. wt., 17 lbs.

88-400. Less accessories. NET PRICE.

88-430. Accessory Kit. Consists of I Knight 6J5, 2 Knight 6L6 tubes, and I Knight 80 tube, 1 Bud plug-in coil (specify band-coil desired), 1 Triplett 0—100 ma. meter, and I Knight 160 or 80 meter crystal with Bliley CM2 holder. (Specify which crystal and approximate frequency on order.)

NET PRICE.

\$9.05

112-T TRANSCEIVER KIT

An extremely compact high-powered transceiver for the Amateur 2½ meter band of 112-116 MC. Uses a Hytron HY-75 tube serving as RF oscillator for transmitting and as an ultra-audion self-quenching detector for receiving; 1—615 and 1—6V6 tubes serve as speech-amplifier-modulator for transmitting and as audio stages in the "receive" position. Has built-in 3½ PM speaker. Transmitting power input is 10 to 15 watts Speech imput is for a single button carbon mike; variable antenna coupling permits maximum performance with most conventional types of 2½ meter antennas for both receiving and transmitting. Power requirements: 300 volts DC at 100 ma, 6.3 V. at 3.35 A. from separate AC-operated power pack or batteries (power supply not included). Kit includes all parts and handsome gray wrinkle finish metal cabinet. 10¾ long, 6¼ deep and 6½ high, with attractive metal front panel. Accessories required: 1—HY75, 1—615, and 1—6V6 tubes, 1—1.5 volt bias battery, mike, antenna, and suitable power supply. The 112-T is ideal for either fixed station or mobile use. Shog, wt., 12 lbs. \$2240 NET PRICE.

88-431. Accessory Kit. Contains 1 Hytron HY-75, I Knight 6J5 and 1 Knight 6V6 tubes, and 1 Burgess 4FA 1.5-volt battery. \$5.51 NET PRICE.

20-N TRANSMITTER KIT

A complete 'phone-CW transmitter to operate on all Amateur bands from 20 to 160 meters. Carefully designed to provide the maximum in performance and efficiency, the 20-N is rated at 20 watts input, 100% modulated for 'phone, or 30 watts input for CW. The Rf' section uses a 6V6 regenerative crystal oscillator driving a 6V66 operated as a neutralized triode Rf amplifier. Audio section has 1—6SJ7 input, 1—6C5 amplifier stage, 1—6N7 Class A driver, and 1—6N7 Class B modulator. Power supply uses a 5Z3 with additional filtering for the speech amplifier tubes to insure hum-free modulation. One meter with selector switch monitors all essential circuits; all circuits arranged for full break-in operation for CW. Uses inexpensive Bud plug-in coils; will operate on two bands from most crystals. Accessories needed: 1—6V6, 1—6V6G, 1—6SJ7, 1—6C5, 2—6N7 and 1—5Z3 tubes, 1—Triplett 0-200 ma. 3" square meter, Bud midget plug-in coils, crystals, and crystal mike. For 115 volts, 60 cycles. Shpg. wt., 40 lbs.

88-402. 20-N Kit.

Less accessories and cabinet. NET

88-432. Accessory Kit. Contains all tubes, Triplett meter, and coils for one Amateur band (specify band on order). 98-850. Gray table cabinet. NET. \$7.95



LATEST EDITION STANCOR HAMANUAL

Every Amateur or Amateur-to-be needs a copy of this latest Stancer transmitter manual. Has 48 pages containing detailed description of all Stancor transmitter kits. Also has detailed circuit diagrams and parts lists of all kits plus data on speech equipment and power supplies. Before you buy any transmitter kit, get your copy of the Hamanual!

37-770. HAMANUAL.



MODEL 69-60 WATTS 'PHONE-CW

Rated at 60 watts input, this crystal-controlled transmitter works either 'phone or CW on any band from 160 to 10 meters. Uses 1—6V6 crystal oscillator, 1—HY69 RF amplifier, 1—6AC7 mike input, 2—6L6 modulators, 1—83 and 1—80 rectihers. All controls on front; door with interlock switch permits coil and crystal changing from front. Has 3" dual scale meter with switch. Cabled wiring harness makes the final hookup fast and simple. Completely self-contained from dual power supply to antenna tuning system in gray cabinet; size: 16" x 9½" x 11". Includes all parts, cabinet and special meter. Less tubes, coils, crystal and crystal mike. For 110 volts, 60 cycles. Wt., 45 lbs.

88-404. Less accessories. NET.....

MODEL 60-N 60 WATTS 'PHONE-CW

The 60-N combines the ability to "go places" with moderate cost. Operates on all Amateur bands, 20 to 160 meters, with up to 60 watts input for either phone or CW. Inexpensive plug-in type Johnson 100 watt coils are used for both oscillator and amplifier stages. Oscillator is 6L6, with HK24 amplifier; output for 72 ohm antenna line. Highgain audio section with crystal mike input uses 1—6SJ7, 1—6N7, and push-pull 6L6's as modulators. Dual rectifier type power supply uses 1—5Z3 and 1—RK60. Kit includes all necessary parts except accessories consisting of tubes, crystal, Triplett 3" square 0-200 ma. meter, plug-in coils, and cabinet. Easy to assemble and wire. For 115 volts, 60 cycles. Shpg. wt., 50 lbs.

\$88-403. Less accessories. NET.

MODEL 125-CW 125 WATTS CW ONLY

The 125-CW was designed for the requirements of the "straight CW" Amateur, Combining simplicity of operation with maximum performance, this three-stage rig will handle inputs up to 125 watts on the 80, 40, and 20 meter bands. Uses a 615G crystal oscillator, 61.6G buffer, and TZ-40 RF stage; power supply uses 1—5Z3 and 1—RK-60 tubes. Accessories required: Tubes, plug-in coils, crystal, Triplett 3" 0-200 ma. meter. For complete data refer to the Stancor Hamanual, 37-770, described above. For 115 volt, 60 cycles. Shpg. wt., 41 lbs.

MODEL 110-C 100 WATTS 'PHONE-CW

The 110-C is a 100 watt four-band phone-CW transmitter featuring cathode modulation. Because of the saving in audio power requirements for cathode modulation. greater RF carrier power is possible from the same equipment than would be possible with other types of modulation. The 110-C uses a 61-65 crystal oscillator and an 812 amplifier, with up to 100 watts input for phone, or 110 watts for CW. The audio system uses — 6537, 1—665, and 2—606 push-pull modulators, with sufficient gain to use a crystal microphone. Dual rectifier type power supply uses 1—523 and 1—RK60. Coils for both the oscillator and amplifier are Johnson 100 watt plug-in type. All parts supplied except tubes, coils, 1—Triplett 0-200 ma. 3" square meter, crystal, and cabinet. For 115 volts, 60 cycles. Wt., 50 lbs.

88-406. STANCOR 110-C KIT. NET. \$59.00

98-850. Gray table cabinet. NET......\$7.95

SHORT-WAVE RECEIVERS



6 TUBE MODEL EC-1

Real communication receiver performance at low cost! 8 tubes, including rectifier and ballast; three bands covering 545 KC to 30.5 MC. Many features including 1 Tuned RF stage on all bands, BFO, Noise Limiter, Calibrated Electrical bandspread, external speaker in matching cabinet. Electrical bandspread available at all frequencies in overall range. With tubes, For 115-125 volts AC or DC, Shpg, wt., 20 lbs.

97-551. CASH PRICE. \$42.50

\$10.63 down, \$8.45 monthly for 4 months.

9 TUBE MODEL EC-3

Only 9 tubes—but the EC-3 brings you more real value per dollar than ever before in a moderate-priced Communication receiver! Tunes from 548 KC to 30.5 MC in three bands; 2-stage 455 KC 1F amplifier; Crystal filter; 4-position selectivity from Broad IF to Sharp Crystal; Automatic Noise Limiter; Electrical Bandspread with fly-wheel tuning; Calibrated bandspread on Amateur 80, 40, 20 and 10 meter bands; Beat Oscillator for CW reception with variable pitch control; Speaker-Headphone switch; Tuned RF stage on all bands; Built-in Monitor circuit enabling operator to listen to his own CW transmissions; Sturdy metal cabinet finished in gray wrinkle finish; Separate external 6° PM speaker in attractive matched cabinet with connecting cord and plug; Combination main tuning and calibrated bandspread dial indirectly illuminated. All important Short-Wave Broadcast, Amateur, Police, and Aviation Bands are clearly indicated on main tuning scales. The EC-3 uses 9 tubes: 6SD7GT, 6K8, 2—6SK7, 6H6, 6SC7, 25L6GT, 25Z6GT Rectifier, and K29D Ballast, Has headphone tip-jacks and terminals for doublet antenna. Operates from any 115-125 volt AC or DC supply line. Wt., 25 lbs.

97-552. Model EC-3, with \$5950 CASH PRICE.

\$14.88 down, \$7.89 monthly for 6 months.

THE PORTABLE EC-4

THE PORTABLE EC-4

Here's the Communication receiver that Amateurs and SWL's alike have been waiting for! It's the compact, lightweight EC-4 Portable that operates on 115-125 volts AC or DC or from self-contained batteries! Features: Tuning range, 545 KC to 30.5 MC in four bands; Two 455 KC IF's; Two-gang condenser is used with electrical bandspread; Automatic Noise Limiter; Two built-in loop antennas, hinged to the cabinet to turn independently of each other; Terminals for external antenna; Built-in 3½° PM speaker with speaker-muting type headphone jack; Substantial wrinkle-finished steel cabinet, 9½° high, 6½° wide, and 5° deep; all panel controls protected by front hinged door; tubes and batteries accessible by opening rear cover; total weight with batteries only 9½ lbs. Panel Controls: Main tuning control with dial calibrated in MC; Electrical Bandspread tuning control with separate logging scales; Volume; Power switch; BFO on-off; ANL on-off; Standby switch. Tubes: IK5 oscillator. IR5 converter, 2—174 IF's, IS5 2nd det.-AVC, IS5 BFO and Noise Limiter, 2—304 power output tubes, and 50% rectifier. Power: Self-contained batteries (1—Everady #482, 2—Burgess #2F) or 115-125 volts AC or DC. Complete with tubes and batteries. Shpg. wt., 12 lbs. \$4950 CASH PRICE.

512.38 down, 59.84 monthly for 4 months.





MODERN AIDS FOR CODE INSTRUCTION

CODE COURSE RECORDS

Fig. A. Now everyone, young or old, can learn the radio code quickly and easily with this amazing new code teaching system. The Linguaphone course consists of five double-faced 10' phonograph records, together with a complete instruction book and album. You can sit at home beside your record player and follow the code as it sounds when "keyed" by expert instructors. You'll soon be able to "copy" code signals up to 10 words per minute with ease. Code records can be used with any electrical or mechanical phonograph. Shpg. wt., 6 lbs.

G-L MODEL "S" SENDER

Fig. B. A compact automatic code practice instrument. Electric motor provides variable speed from 4 to 60 words per minute. Easy to operate, only three controls, motor on-off switch, contact switch, and speed control. Terminals for connecting to oscillator or buzzer. Supplied with ten rolls of double perforated tape comprising twenty practice lessons. Size, 5½°x 4½°x 6°. For 115 volts, 50-60 cycles. Postpaid in U.S.A. 76-100. Model "S." NET...\$17.50

G-L MODEL "J" SENDER

G-L MODEL "J" is a simple, easy to use device for code practice or instruction work. Can be used with any practice oscillator. Driven at speeds from '10 to 60 words per minute by quiet, induction-type motor. Supplied with five rolls of prepared practice tape and five rolls of blank tape. Student can prepare tape by means of punching keys to cover desired material. For 115 volts, 50-60 cycles. Postpaid in U.S.A. 76-101. Model "J." NET. \$12.50 76-102. 1000 ft. extra blank tape. NET. \$1.00

Literature on G-L Models "J" and "S." Sent FREE. Request 37-095.



T. R. McELROY MODEL G-813 AUTOMATIC CODE INSTRUCTOR

Designed and produced by T. R. McElroy, World's Champion Telegrapher, for radio operator training schools of the United States Army, and now available for civilian use. Recommended for Schools, Universities, CCC or NYA Vocational or Defense Training Classes. The G-813 consists of two units securely mounted on a heavy wooden base, with removable wooden top cover. Unit No. I is the automatic photo-electric cell keying device. Inked tape is drawn from reel through an "electric eye" gate, actuating a relay which keys two circuits. One circuit consists of a built-in tone oscillator with variable pitch from 600 to 1000 CPS, with sufficient volume to handle 20 to 30 sets of student headphones. The other circuit can be used for keying an external oscillator, blinker, etc. Unit No. 2 is a constant speed, motor-driven tape puller with speed control permitting code practice speeds from 4 to 60 words per minute. Complete with tubes, less practice tapes. For 110 volts 60 cycles. Wt., 40 lbs.

76-010. NET.

SET OF 15 TAPES

37-067. McElroy Catalog, sent FREE on request.

THE WORLD'S FINEST RADIO-TELEGRAPH APPARATUS

Selected to Fill the Requirements of Amateurs, Commercial Operators, Code Practice Classes, Government Sponsored NYA-Army-Navy Code Training Programs, Schools, Clubs, etc.

FROM THE LABORATORY OF T. R. McELROY.. WORLD'S CHAMPION TELEGRAPHER







McELROY S-600-PC SPEEDKEY

One of the finest semi-automatic keys made. It's a Super-Deluxe "bug" that will add WPM to your fist, whether you are a "Ham" or a Commercial operator! It's a masterpiece of mechanical crafts-It's a masterpiece of mechanical crafts-manship and precision workmanship by the World's Champion Telegrapher. Massive streamlined base, all top parts finished in highly polished chrome. ½,6 platinum alloy contacts; beryllium copper main spring and U spring, Coil springs, bearings and pins of finest stainless steel for lifetime service. Here's a "bug" so finely balanced that a feather touch makes rhythmic dots and dashes. Shpg. wt. 6 lbs.

76-001. Model S-600-SC. Same as above but with finest silver contacts instead of platinum alloy.

PROFESSIONAL SPEEDKEY P500

Designed to conform with United States Navy specifications. Heavy Parkerized base casting, finished in fine black wrinkle enamel. Care-

MAC HANDKEY **MODEL 5-100**

MODEL 5-100

The latest addition to the famous McElroy line of handkeys. Modern streamlined base of metallized plastic. Model S-100 is an exceptionally fine key suitable for Amateur use, for code practice and code training classes, etc. Accurately designed and built for smooth, effortless keying. Perfectly balanced main lever with bronze bearing screws; ½6 silver contacts. Equipped with circuit closing switch. All metal parts finished in cadmium plate. Fully adjustable. Molded plastic knobs. Ideal for training class use. A great value. Shpg. wt., 1 lb.

76-003, NET.....\$1.65

MAC HANDKEY MODEL 300

MODEL BB-300

Same as Model 300 above, but main lever mounted between ball-bearings. Pigtail connection for positive keying; current does not pass through ball-bearings Wt., 1½ lbs. 76-006. NET.\$3.45



TRAINING SCHOOL SPECIAL McELROY "100" HANDKEY

A genuine McElroy handkey at an unbelievably low price! Ideal for code training and instruction groups, Students, Amateurs, etc. Streamlined molded plastic base; ¾6* silver contacts; finely balanced and adjustable arm; cadmium plated metal parts. Shpg. wt., 12 oz.

76-004. \$115

Descriptive literature on Mac "Auto" units for code training, 37-067, sent Free on request.



MODEL 200 HANDKEY

A professional type stream-lined handkey having a per-fectly balanced main lever with bronze bearings. Metal base finished in black wrinkle. 1/6' silver contacts; circuit closing switch; adjustable. Wt., 1/2 lbs. 76-005.

MODEL BB-200

Streamlined professional key. Black wrinkle base. 1/16" contacts. Ball-bearing mounted arm; pigtail connection. Otherwise like "200." Wt., 1½ lbs. 76-012.

McELROY ACCESSORIES

McELROY ACCESSORIES
76-013. Fig. A. Speedkey
Case. Leatherette coveret.
8½"L. 4½"W. 3½"t H. 5.95
Wt. 2 lbs. NET. \$5.95
Wt. 2 lbs. NET. \$1.00
76-014. Fig. B. Speedkey
Cord. NET. \$1.00
76-015. Fig. C. Speedkey
weight. NET. \$1.00
76-015. Fig. D. Coil
spring. NET. \$1.50
99-020. Coin Silver Contacts. ½6" head. ½6" shank,
½6" long EACH. \$1.00
99-021. Platinum Contacts. 015" face. ¾6" diam.
¾6" shank, 4x40 thread.
EACH. \$1.50

MAC OSCILLATONE

For code-instruction or practice, or as a keying monitor with a transmitter. Housed in plastic cabinet with built-in reproducer. Operates from 110 volts AC or DC. Provides 600 or 1000-cycle signal with tone and volume adjustment. Built-in key-click eliminator and terminals for transmitter relay. Uses 1-117N7GT tube. Less tube. Shpg. wt., 7 lbs.

76-008. NET...... \$5.95 9-357. 117N7GT tube....99c
76-009. "Oscillofone." Speaker
for use with code oscillators. Wt.,
3 lbs. NET......\$2.85

POPULAR SPEEDEX TRANSMITTING KEYS

HI-SPEED MODEL 500

AMATEUR MODEL 515

Fig. B. A durable, heavy-duty Speed Key. Base and casting finished in black wrinkle enamel; all other parts chrome plated. Other features same as No. 500 Hi-Speed key above. Has ½" silver contacts. Less cord and plug; does not have shorting switch. An excellent speed key for Professional or Amateur use. Wt., 5 lbs. \$5.44

MODEL 300-FIG. C.

Beginner's key. Walnut-bakelite base. Metal parts nickel-plated; 1/4" silver contacts. Tension and space adjustments. Well-made. Wt., 1 lb. 800 76-053. NET. 76-054. As above—but with cast metal base. NET......88c

CODE PRACTICE SET

Fig. D. An inexpensive set with practice key and adjustable buzzer; molded walnut plastic base. Produces high-pitched code signals. Excellent for class or individual code instruction. Shpg. wt., 2 lbs. \$1.62

MODEL 310-FIG. A.

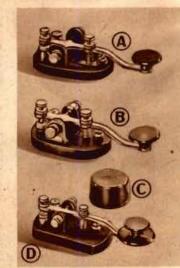
Skeleton frame type; black wrinkle finish base; other parts nickel-plated; ½* silver contacts. Dual adjustment for tension and lever action. Shipping weight, 2 lbs. 76-055. NET \$1.47 76-056. 310 with circuit closer. NET \$1.76

MODEL 301-FIG. B.

Sturdy standard key with molded bakelite base. Metal parts nickel-plated; pigtail connection to arm; % silver contacts. Wt., 1 lb. \$1.26

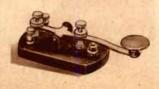
MODEL 320-FIG. D.

Professional type key. ¼-inch coin silver contacts. Black base. All other parts attractively chrome plated. Shpg. wt. 2 lbs. 76-058. NET. \$1.91



SIGNAL R-50 KEY

Descriptive literature on SIG-NAL keys and telegraph equip-ment, 37-092, FREE on request.





EVERYTHING FOR THE AMATEUR

Here is Amateur Radio's **complete** 1942 Buying Guide—a vast selection of the newest and best in receiving, transmitting, and experimental equipment together with all that's finest in standard parts and accessories. It's the wise Amateur who makes ALLIED his Radio Buying Headquarters, for he—like more than twenty thousand other Amateurs—knows that ALLIED is the single, dependable source for everything he needs—that our big, complete stocks, prompt, efficient service, and money-saving low prices make his radio buying easier, faster and more economical in the long run. Amateurs everywhere have come to know and depend on our alert, expert staff of licensed Amateurs, wide-awake Engineering Division, and efficient organization geared to give them what they want when they want it. Amateurs also like our convenient, economical Time Payment Plan. On every count it's ALLIED for everything in Amateur Radio! Here is Amateur Radio's complete 1942 Buying Guide a vast

SPECIAL SERVICE FOR INDUSTRY

For Industry, for Government Agencies, for Institutions the country over, ALLIED offers a specialized service in supplying all types of Radio and Electronic equipment. This catalog presents an unusually comprehensive listing of equipment used on the production line, in the control laboratory, in the research division. Besides such standard equipment—regularly carried in stock, ready for prompt shipment—we maintain an expert Special Order Division to serve you quickly with equipment for special requirements. Our central location and huge stocks, our ready access to sources of supply, our fast and dependable service save you time and money when it really counts! Hundreds of famous American business firms, Government Agencies, Universities, and Laboratories endorse our special service. Whatever you need in Radio or Electronics, ALLIED has it or can get it for you-quickly, dependably, economically! For Industry, for Government Agencies, for Institutions

AND INDUSTRIAL APPLICATION POWER TUBES FOR COMMERCIAL



ALLIED is RCA power tube headquarters. Large stocks permit prompt shipment. All new RCA power tubes available from ALLIED immediately on release by RCA. For RCA receiving tubes see pages 34-35.

RECTIFIERS

Туре	Stock No.	Kind	Pk.V.	NET
816	6-800	Mercury	5000	\$ 1.00
866/866A	6-801	Mercury	10000	1.50
217A	6-802	Vacuurn	3500	20.00
217C	6-803	Vacuum	7500	20.00
836	6-804	Vacuum	5000	11,50
869A	6-805		20000	125.00
872		Mercury	7500	9.00
872A		Mercury	10000	11.00
878		Vacuum	20000	11.00
2X2/879	6-810	Vacuum	12500	1.24
2V3G		Vacuum	16500	1.51
1616		Vaccuum	5500	5.75

GAS TRIODES-TETRODES

Type	Stock No.	Kind	Use	NET
884	6-813	Triode	Relay/Sweep	\$2.00
			Relay/Sweep	
		Tetrode		3.00
		Tetrode		2.50
874	6-817	Voltage	Regulator	1.50
991	6-818	Voltage	Regulator	.90

UHF AND ACORN TUBES

Type	Stock No.	Kind	FII. V.	NET
9154	6-819	Peritode	6.3	\$5.00
1955	6-820	Triode	6.3	3.00
956	6-821	Pentode	6.3	5.00
957	6-822	Triode	1.25	3.00
958	6-823	Triode	1.25	3.00
959	6-824	Pentode	1.25	5.00
9001	6-825	Pentode	6.3	2.50
9002	6-826	Triode	6.3	2.00
9003	6-827	Pentode	6.3	2.50

CATHODE RAY TUBES

Type	Stock No.	Screen	NET
913	6-828		\$4.00
902	6-829		7.50
3AP1/906P1 5BP1/1802P1	6-830	3-Inch 5-Inch	13.50

Notice: Transmitting tubes require careful handling, and must be shipped by Express. Tubes cannot be sent by Parcel-Post.

POWER TUBES Tube

Plate

NET

RCA Stock

Туре	No.	Type	Diss.	
203A	6-832	Triode	100 W.	\$10.00
211	6-833	Triode	100 W.	10,00
800	6-834	Triode	35 W.	10,00
801A	6-835	Triode	20 W.	3.45
802	6-836	Pentode	13 W.	3.50
803	6-837	Pentode	125 W.	28.50
804	6-838	Pentocle	50 W.	15.00
805	6-839	Triode	125 W.	13.50
806	6-840	Triode	225 W.	22.00
807	6-841	Beam	30 W.	3.50
	6-842	Triode	50 W.	7,75
808	6-843	Triode	30 W.	2.50
809	6-844	Triode	150 W.	13.50
810	6-845		55 W.	3.50
811	6-846	Triode Triode	55 W.	3.50
812			100 W.	22.00
813 814	6-847	Beam Beam	65 W.	17.50
	6-849	PP Beam	25 W.	4.50
815		Triode	60 W.	19,00
826 827 R	6-850	Beam	800 W.	135.00
-				
828	6-852	Beam	80 W.	17.50
829	6-853	PP Beam	40 W.	19.50
830B	6-854	Triode	60 W.	10.00
832	6-855	PP Beam	15 W.	17.00
833 A	6-856	Triode	450 W.	85.00
834	6-857	Triode	50 W.	12.50
837	6-858	Pentode	12 W.	7.50
838	6-859	Triocle	100 W.	11.00
842	6-860	Triode	12 W.	3.25
843	6-861	Triode	15 W.	12.50
845	6-863	Triocle	100 W.	10.00
849	6-864	Triocle	400 W.	120.00
850	6-865	Tetrode	100 W.	37.50
860	6-866	Tetrode	100 W.	32.50
864	6-867	Рисамр.		1.00
1608	6-868	Triode	20 W.	4.00
1610	6-869	Pentocle	6 W.	2.00
1613	6-870	Pentode	10 W.	2.75
1614	6-871	Beam	21 W.	3.50
1619	6-872	Веатт	15 W.	4.75
1623	6-873	Triocle	30 W.	2.50
1624	6-874	Beam	25 W.	3.50
1625	6-875	Beam	30W.	3.50
1627	6-876	Triode	150 W.	13.50
1628	6-877	Triode	· 40 W.	32,00
8000	6-878	Triode	150 W.	13.50
8001	6-879	Веап	75 W.	22.00
8003	6-880	Triode	100 W.	12.00
8005	6-881		85 W.	7,00
			3	The second second

For technical data on Amateur tubes see RCA Ham Guide below. For additional RCA transmitting and power-type tubes as well as information on all types ask for Power Tube Bulletin.

37-054, FREE on request.



PHOTOTUBES

Туре	Stock No.	Kind	Use	ME
868	6-882	.Gas:	Sound	\$3.70
917	6-883	Vacuum	Relay	4.75
918	6-884	Gas	Sound	4.50
919	6-885	Vacuum	Relay	4.75
920	6-886	Gas	Sound	5.25
921	6-887	Gas	Sound	2.00
922	6-888	Vacuum	Relay	2.00
923	6-889	Gas	Sound	2,60
924	6-890	Gas	Relay	2.00
925	6-891	Vacuum	Relay	2.00
925	6-892	Vacuum	Color	3.00
927	6-893	GE19	Sound	3.70
928	6-894	Gas	Relay	2.00
929	6-895	Vacuum	Relay	3.00
930	6-896	Gas	Sound	2.00
931	6-897	Gas.	Relay	12.00
331				-

TELEVISION TUBES

Type	Stock No.	Kimd	Siz:e	NET
3AP4/906P4	6-898	Kine.		\$18.25
5AP4/1805P4	6-899	Kine.	5"	27.50
5BP4/1802P4	6-900		5"	27.50
7AP4	6-901		70	36.00
9AP4/1804P4	6-902		90	62.50
12AP4/1803P4			12"	75.00
1847	6-904		3"	24.50
	6-905		5"	95.00
1899	6-906	TATOHO.	3.	95.00

RCA GUIDE

A valuable new book for Hams. Contains numerous practiced circuits with illustrations, explanations, and complete parts lists. Detailed data on tuning, neutralizing, etc. Complete technical data on RCA transmitter tabes.

37-576 NET . 25 c



37-061. TUBE SOCKET BULLETIN. Lists RCA sockets for RCA Power Tubes with special base or mounting. FREE on request.

RAYTHEON

TRANSMITTING TUBES



TYPE RK60

A full-wave rectifier for use in low voltage power packs. Fil., 5 V. at 3A. Plate voltage, 750 V. RMS per plate. Maximum output current, 250 ma. High vacuum type. 4 prong base. Replaces 83, 83V and 523 rectifiers. Spg. wt., 1½ lbs. \$2.75

Mfr's	Stock	Tube	Plate	
Туре	No.	Туре	Diss.	NET
RK-12	5-600	Triode	25 W.	\$2.50
RK-20A	5-601	Pentode	40 W.	15.00
RK-23	5-602	Pentode	10 W.	4.50
RK-25	5-603	Pentode	10 W.	3.95
RK-28A	5-604	Pentode	125 W.	28.50
RK-34	5-605	Twin-Triode	10 W.	3.50
RK-38	5-606	Triode	100 W.	13.50
RK-39	5-607	Beam	25 W.	3.50
RK-43	5-608	Twin-Triode		1.50
RK-47	5-609	Beam	50 W.	17.50
PK-48A	5-610	Tetrode	100 W.	27.50
RK-49	5-611	Beam	21 W.	1.25
RK-56	5-612	Tetrode	8 W.	3.00
RK-59	5-613	Twin-Triode	15 W.	4.50
RK-60		F.W.Rectifier		2.75
RK-62		Gas Triode		3.50
RK-63	5-616	Triode	200 W.	22.00
RK-66	5-617	Beam	30 W.	3.50
RK-807	5-618	Beam	25 W.	3.50
866-	fluorities.	Half-wave		111111111111111111111111111111111111111
866A	5-619	Rectifier		1.50

HEAT RADIATING CONNECTORS



Quality heat radiating connectors designed to dissipate heat generated at the grid and plate terminals of transmitting tubes. Prevents damage to glass scal of tubes. Size indicated is maximum diameter of leads or caps these connectors fit. *Accommodate wire leads. †Fit cap-type leads. Wt., 2 oz.

Stock No.		Size	NET
73-000*	HK-24	.049'	21c
73-001*		.069"	21c
73-002† 73-003†	100T, 807, etc. 866, T125, etc.	.560"	41c



1010

POWER TUBES

TYPE HY-30Z. Zero-bias triode with low-loss lava insulation. Graphite anode. For RF Power Amplifier or Frequency Multiplier stages, or Class B Modulator. Plate, 850V. Fil., 6.3V. at 2.25A. Plate diss., 30W. \$2.75

Mfr's Type	Stock No.	Plate Diss.	NET
HY-40	7-602	40 W.	\$3.75
HY-40Z	7-603	40 W.	3.75
HY-60	7-605	15 W.	2.75
HY-65	7-613	15 W.	3.00
HY-67	7-614	65 W.	7.75
HY-69	7-607	40 W.	3.95
HY-75	7-608	15 W.	3.95
HY-61/807	7-606	25 W.	3.50
HY-31Z	7-601	30 W.	3.50
HY-51A	7-604	65 W.	4.75
HY-615	7-609	3.5 W.	2.25
6L6GX	7-610	21 W.	1.25
866 Jr.	7-611	Rectifier	1.05
866A/866	7-612	Rectifier	1.50

37-003. Hytron Catalog-Sent FREE

EIMAC TUBES

Designed for heavy-duty service. Cannot go "soft" from overloads. Envelopes are of Nonex glass.

TYPE 35T. A general-purpose triode of small size and treme ndous power Fil., 5V. at 4A. Plate, 500 to 2000V. Max. plate dissipation, 70W. Max. Class C power output, 225 W. per tube. \$6.00

TYPE 35TG, For UHF. 7-701. NET......\$6.75

Mfr's Type	Stock No.	Plate Diss.	NET
75T	7-702	75 W.	\$ 9.00
100T L	7-703	100 W.	13.50
100TH	7-704	100 W.	13.50
250TL	7-705	250 W.	24,50
250TH	7-706	250 W.	24,50
KY21	7-707	Keying Rectifier	10.00

37-004. Eimac Catalog—Sent FREE

TRANSMITTING TUBES

The world's most famous 866 half-wave mercury vapor rectifier, now in greatly improved form. Features a new heavy-duty, fully shielded filament and ceramic protection for top plate lead. Fil., 2.5 V. at 5 A. Peak inverse voltage, 10,000 volts. For use in any power supply circuit designed for heavy duty service. \$ 1.50

TYPE 866A/866



Mfr's	Stock	Plate	Class	NET
Туре	No.	Diss.	Service	111
T-20	7-900	20 W.	C	\$ 2.25
TZ-20	7-901	20 W.	B-C	2.25
T-21	7-902	21 W.	C	1.95
T-40	7-903	40 W.	B-C	3.50
TZ-40	7-904		B-C	3.50
T-55	7-919	55 W.	B-C	6.00
TW-75	7-905		C	8.00
TW-150	7-906	150 W.	C	15.00
TW-150S	7-907	150 W.	C	15.00
203 A	7-908		B-C	10.00
203Z	7-909	65 W.	В	8.00
805	7-910	125 W.	B-C	13.50
814	7-911	200 W.	B-C	18.50
822	7-912	200 W.	B-C	18.50
841SW	7-913	50 W.	C	8.00
866 Jr.	7-915	Rectifier		1.00
T-125	7-916	125 W.	C	13.50
T-200	7-917	200 W.	Č C	21.50
H D-203A	7-918	150 W.	B-C	14.50

CAN SUPPLY ALL TAYLOR TUBES
005. Taylor Catalog—Sent FREE 37-005.

GAMMATRON HK-24

An unusually popular general purpose low power triode. Plate dissipation, 25 W. Power output, 90 W. max. Plate, 1500 V. max. at 75 ma. Thoriated fil., 6.3 V. at 3 A. 4-prong ceramic base. Has cylindrical tanalum plate and vertical-bar tantalum grid. Shpg. wt., 11/4 lbs. \$4.75



FAMOUS AMPHENOL POLYSTYRENE PRODUCTS

AMPHENOL 912-A AND 912-B

Made of Polystyrene, the greatest advance in high frequency insulating material of recent years. Water clear transparency. Unexcelled for all high frequency, RF or high voltage applications and has electrical characteristics equal to fused quartz. Loss factor (A) only .0005 at 1 MC and .001 at 10 MC. Zero moisture absorption, for use in any climate. Amphenol 912-A is pure polystyrene, molded to shape; 912-B is made of acrylic type plastic; easy to drill and cut with ordinary tools.

"912A" PLUG-IN COIL FORMS



For maximum coil efficiency in all high freq. apparatus. Bases fit standard tube sockets. Overall length of polystyrene body is 2¼°; dia., 1¼°. Has finger grip for easy extraction. Fasy to drill. Spar get 6.2.

0.3.	Easy to dril	I. Snpg.	Mr.	o oz.	-	
71-7	DO. 4-prong.	NET			29	á
71-7	01. 5-prong.	NET	A		32	ċ
71-7	02. 6-prong.	NET			.35	Č

UHF MINIATURE SOCKETS



For use with Miniature Coil Forms below. Sockets also accommodate Bantam Jr. tubes. Mount in 1/4 hole. Held in place by steel retainer ring which is supplied. Wt., 4 oz.

71-706. 5-contact....) NET EACH 21c

MINIATURE PLUG-IN FORMS



138

Especially designed for ultra-high-frequency apparatus. Polystyrene body is 1%6" in height, ¾" in dia. Fits sockets above. Shpg. wt., 4 oz.

71-710. 5-prong. EACH. 24c

"912-B" STRIPS

Can be used for coil supports, condenser insulating bars, open-wire feed line spreaders, RF or high voltage terminal blocks, etc. All strips are 12" long; easy to cut. Avg. wt., 6 oz.

Stock No.	Size	NET	
71-715	1/16" x 1/4"	\$0.16	
71-716	1/6" x 1/2"	.21	
71-717	16" X 3/4"	.25	
71-718	716 X I	.30	
71-719	79" X 74"	.42	
71-721	(9 x 13 m	.64	
71-722	12.7 2 174	1.80	

"912-B" RODS

"912-B" TUBING

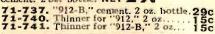
For high-Q coils. Easily drilled. 1/8" thick wall. 3" Length Tube 6" Length
Stock No. NET Dia. Stock No. NET
71-765 36c 1½" 71-770 71c
71-766 42c 1¾" 71-771 84c
71-767 47c 2" 71-772 94c

"912-B" RIBBON

A strong insulating ribbon, 001" thick and 34" wide. Ideal for wrapping cable joints, splices, and covering exposed voltage points in all types of equipment for maximum safety. Welds together with cement listed below. Ribbon wt. 4 oz.; cement 10 oz. 71-733. PER 100 FT. ROLL. 29c 71-735. Cement, 2 oz. bottle 29c

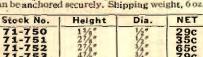
LIQUID CEMENT





STAND-OFF INSULATORS

Leakage losses between metal base and top cap negligible. Body of transparent Amphenol. Withstands temperatures of 200° F. Will not break when dropped. ½" dia. sizes have solder lug; ¾" dia. sizes have large hex. blnding screw so that wires can be anchored securely. Shipping weight, 6 oz.



71-751 71-752 71-753 71-754	278° 478° 6°		35c 65c 79c 88c
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AMPHENOL CRYSTAL SOCKET



WE CAN SUPPLY ALL AMPHENOL PRODUCTS Send far Complete Amphenol literature.
37-006 Amphenol Catalog—Sent FREE

LEY QUARTZ CRYSTAL



TYPE LD2

For 80 and 160 meter bands. Frequency drift is less than 4 cycles (±) per MC per degree. C. Will operate within .03% of specified frequency at calibration temperature. Specify frequency when ordering. Plugs into 5-prong tube socket. Av. shpg. wt., 12 oz.

FREQUENCY WITHIN 5 KC.

Stock No.	Band MC	NET EACH
99-100 99-101	3.5-4.0	\$4.80
99-101	1.75-2.05	7.00

EXACT FREQUENCY

Stock No.	Band MC	NET EACH
99-105 99-106	3.5—4.0 1.75—2.05	\$5.90

TYPE BC3

Accurately calibrated; molded bakelite holder with heat dissipating stainless steel cover plate; 1/2 pin spacing. Only 23 cycle drift per MC per degree C. Specify frequency desired in band when ordering. Average shpg. wt., 12 oz.

Stock	Frequency	Band	NET
No.	Within	MC	EACH
99-120 99-121 99-125 99-126	± 5 KC ± 10 KC	7.0—7.3 3.5—4.0 1.75—2.05 7.3—7.5	\$3.35
99-127	EXACT	7.0—7.3	\$4.95
99-128	EXACT	3.5—4.0	
99-129	± 5 KC	7.3—7.5	



CRYSTAL HOLDERS

Molded bakelite adjustable pressure-type holders for 1" square crystals. 3(" pin spacing. Mount in any position. A safe, convenient holder for unmounted transmitter crystals. 8 oz.

99-225. For 20-40 meters. EACH. 95c

GORDON QSL CARD ALBUM

Enables you to keep a well-ordered file of all QSL cards received. Contains 50 looseleaf pages for holding 200 cards. Will accommodate 50 more pages. Sheets compression-held with adjustable posts. Handsomely bound in durable red grained moroceo composition leather with gold colored embossing. Page size, 9% x 13%. Shpg. wt., 5 lbs. 37-890. NET. 2.47



BLILEY CRYSTAL HANDBOOK

A complete handbook on fre-A complete handbook on frequency control with quartz crystals, which every Amateur, engineer, and experimenter should have. Thirty-five pages explaining theory, use, application, and care of quartz crystals. Shogs. wt., 8 oz.

37-885. NET......10c

TYPE MO-2 POLICE FREQUENCY CRYSTALS



2050-3000 KC for funda-mental use; 7500-11,000 KC for tripling or quadrupling. Bakelite holder with stain-less-steel electrodes. *Specify frequency and include oscillator circuit sketch with order. 12 oz.

Stock No.	Frequency	EACH	5 LOTS,
99-135	2050-3000 KC	\$14.00	
99-137	2050-3000 KC*	24.50	\$23.65
99-136	7500-11000 KC	19.50	18.65

*Police interzone, .01%. Oven mounted.

TYPE MC-5 FOR MARINE AND AIRCRAFT USE



Tolerance and temp. coefficient comply with Marine and Aircraft requirements. Moisture and dust sealed. Bakelite holder with matched stainless-steel electrodes. Pin spacing \(\frac{\psi}{2} \). Holder size, \(1\psi_2 \). I lb. Specify exact frequency desired and include oscillator circuit diagram with order.

FOR MARINE USE

HETE LES	Frequency		Stock No.
2110 KC 2118 KC 2126 KC 2134 KC 2142 KC	2158 KC 2166 KC 2174 KC 2182 KC 2198 KC	2206 KC 2638 KC 2670 KC 2738 KC	99-150 EACH \$10.00

RANDOM FREQUENCIES

Marine units for any specified frequency not listed above, but between 2000 and 4000 KC. 99-151. 2-4 MC .04%. NET... \$12.00 99-152. 2-4 MC .02%. NET..... 14.00

FOR AIRCRAFT USE

Tolerance complies with aircraft requirements. Send oscillator circuit diagram with order. 99-170. 3105 KC. \$14.00

WE CAN SUPPLY ALL BLILEY CRYSTALS for Broadcast, Police, Marine or Mobile frequencies between 20 kilocycles and 30 megacycles. Send for complete Bliley literature. 37-030. Bliley Catalog—Sent FREE

MEISSNER "UNI-SIGNAL"

SELECTOR



The most amazing contribution to the CW field in years! An output selector to connect between the receiver and speaker that removes 90% of the tube hiss and background believable selectivity afforded by entrance pathonly 25 to 40 cycles wide. Will isolate any signal otherwise unreadable because of weakness or QRM. Connects to any receiver. Size, 10° x 5° x 6°. Shog, wt., 5 lbs. \$14.82
73-530. Stethescopic Headphones. Es-

73-530. Stethoscopic Headphones. Especially designed for use with Uni-Signal Selector above. Super-sensitive. Plugs into coupling jack. Shpg. wt., 2 lbs. \$5.23

MEISSNER SIGNAL SPLICER



Boost signal strength tremendously, decrease stray noise pickup, and improve image rejection with the new Signal Splicer. Provides accurate impedance match between receiver and antenna, Enables you to copy weak signals ordinarily lost. Universal coils supplied cover majority of amateur frequency ranges. Signal Splicer assures maximum sensitivity and reception on all amateur bands. Can be used as pi-section antenna coupler for transmitters up to 75 watts input. Works equally well on either AM or FM signals. Wt., 5 lbs. \$4.25

Accurately engineered precision crystal for amateur 40 meter bands. Drift is less than 4 cycles per MC per degree C. Extremely active and ideal for harmonic operation. 40 meter crystals are high output type. Low-loss holder; 3/4" pin spacing. Specify frequency when ordering. Shpg. wt., 12 oz.



Stock No.				
99-180	7.0 to	7.3 MC 7.3 MC	5 KC Exact	\$4.80

TYPE HF2

Fully dependable, active, precision ground, 20 meter amateur band crystals. Applicable to conventional 14 MC oscillator circuits other than the Pierce type. Drift is only 20 cyclea per megacycle, per degree centigrade. Details in bulletin 37-885—sent free. Wt., 12 oz.

Stock No.	Frequencies	Within	EACH
99-190 99-191 99-192 99-193	14.0 to 14.4 MC 14.4 to 15.0 MC 14.0 to 14.4 MC 14.4 to 15.0 MC	15 KC 30 KC 5 KC 5 KC	\$5.75 10.00 15.00

VF-1 VARIABLE FREQUENCY UNITS

Easily adjusted. Fundamental frequency variation up to 6 KC on 3.5 MC units; up to 12 KC on 7 MC units. Drift less than 4C/MC/°C. ¾° pin spacing. Average shpg. weight, 12 oz.



	Frequencies	Within	EACH
99-200	3500-4000 KC	± 5 KC	\$6.60
99-201	7000-7300 KC	± 15 KC	6.60
99-202	7000-7300 KC	± 5 KC	
99-203	3500-4000 KC	EXACT	8.50

BLILEY 100-1000 KC UNIT

A special dual frequency crystal sealed in special holder. For use in frequency standards or calibration oscillators; will provide 100 and 1000 KC signal when adjusted to zero beat with Standard Frequency transmissions. The 1000 KC frequency drift is minus 10 and minus 23 cycles/MC/°C, for the 100 and 1000 KC frequencies respectively. Size, 1½°x1½°2. Bulletin 37-031 sent free on request. 8 oz. 99-175. Type 5MC-100. \$7.75 on request. 8 oz. 87.75

KNIGHT UNMOUNTED TRANSMITTER CRYSTALS



High quality, inexpensive, unmounted X-cut crystals. Accurately ground from the finest quality quartz. Calibration within .1% of operating frequency under normal conditions, dependent on type of mounting used. Drift in actual operation negligible. Specify frequency, and closest stock unit will be shipped. Fit Bliley holder listed at left above. Not available for frequencies outside amateur bands. Shpg. wt., 8 oz.

	Frequency Band	
99-250		\$1.95
99-251	3500-4000 KC	
99-252	1750-2050 KC	1.50

OHMITE D-100 DUMMY ANTENNA

37-891. 50 sheet refill for above. With 83 c

OHMITE R.F. PLATE CHOKES

74-310. TYPE Z1. 5 meter choke. 5.5 microhenries, 85 ohms DC res., 1000 15 cm. 13/4" long. Pigtail leads. NET...... 15 c



OHMITE PARASITIC SUPPRESSOR

TYPE P-300. A cure for parasitic oscillation in RF stages of transmitters. Increases efficiency and reduces tube failure. (One required for tubes in parallel; two for push pull.) Has a 50 ohm vitreous resistor and 0.3 mh. choke. 134 *x 5/4". 4 oz. 88c

COR TRAN





Amateur and industrial transformers and chokes. Only most used bypes are shown. Many other types available. Outline your requirements and enclose deposit with your order. Special quotations gladly supplied. All primaries, unless otherwise indicated, are for 115V. 50-60 cycles. For 220-230 V. Pri,—not listed on this page, increase price 35%, and for 25 cycle primaries, 100%. 37-036. Complete Stancor Transformer Catalog, sent FREE







FILAMENT TRANSFORMERS

Stock No.	Туре	NET	Volts	Amps.	Insul.	Fig.	Lbs.
64-300	P-6140	\$1.23	2.5	5.25	2.500	N	2
64-301	P-3060	2.00	2.5	10.0	10,000	NBC	3
64-302	P-5000	2.15	5.0	6.0	2,500	C	4
64-303	P-3062	1.71	5.0	6.0	2,500	BNZ	3
64-304	P-6135	2.15	5.0	10.0	2,500	N	4
64-305	P-6136	1.38	5.25	4.0	2,500	N	3
64-306	P-6137	2.76	5.25	13.0	2,500	N	5
64-307	P-5011	3.23	5.25	13.0	2,500	C	6
64-308	P-6134	.82	6.3	1.2	2,500	N C A B	- 1
64-309	P-5014	1.44	6.3	3.0	2,500	В	2
64-310*	P-6164	1.38	6.3,5,2.5	2.5	2,500	B C B	2
64-311	P-4089	2.32	6.3	6.0	2,500	C	4
64-312	P-3064	1.71	6.3	6.0	2,500	В	3
64-313	P-6308	2.26	6.3	10.0	2,500	N	4
64-314	P-5015	1.53	7.5	4.0	2,500	B	3
64-315	P-6138	1.53	7.5	8.0	2,500	N	5
64-316	P-4092	2.94	7.5	8.0	2,500	NC	6
64-317	P-5016	1.85	10.0	4.0	2,500	В	3 5
64-318	P-6139	2.47	10.0	8.0	2,500	NC	5
64-319	P-4097	3.09	10.0	8.0	2,500	C	6

*Secondary is not center-tapped, all others are center-tapped.



140

STANCOR PROFESSIONALS

Highest quality transformers built especially for continuous-duty laboratory and industrial use. Also highly popular with radio amateurs for transmitter construction. Vacuum impregnated and pot-sealed for complete moisture protection. Low resistance solder-lug terminals. Can be top, bottom, or side mounted.

PLATE TRANSFORMERS

Stock No.	Туре	NET	DC Volts!	DC Ma.	Wt. Lbs.
64-335	P-8500	\$ 6.17	400	250	12
64-336*	P-8501	7.85	400-500	250	13
64-337	P-8502	8.23	600-750	250	18
64-338	P-8503	7.94	400-1000	150-130	17
64-339	P-8504	15.14	1000-1250	300	-30
64-340	P-8505	20.29	1000-1250	500	41
64-341+	P-8506	17.20	1250-1500	300	34
64-342	P-8507	26.46	1250-1500	500	49
64-343	P-8508	21.31	1500-1750	300	36
64-344	P-8510	22.05	1750-2000	300	39
64-345	P-8511	26.90	2000-2500	300	50
64-346	P-8512	32.34	1500-1750	500	60
64-347+	P-8513	39.69	1750-2000	500	68
64-348+	P-8514	42.04	2000-2500	500	70
64-349+	P-8515	44.39	3000	375	65

*Also has 40 volt bias tap. †Has 115-230 volt primary. ‡After filter.

SWINGING CHOKES

Stock No.	Туре	NET	Henries	Ma.	Ohms	Insul.	Lbs.
64-361 64-362 64-363	C-2700 C-2701 C-2702 C-2703		8-30 8-25 5-25 5-20	200 300 400 500	80 80 60 65	3000 5000 5000 5000	5 10 15 19
	9	MOOTH	IING C	CHO	KES		7-1-11-

200 300 400 500

FILAMENT TRANSFORMERS

Stock No.	Туре	NET	Volts	Amps.	Insul.	Lbs.
64-380	P-8536	\$2.26	2.5	5	2000	3
64-381	P-8537	2.62	2.5	10	2000	4
64-382	P-8538	4,85	2.5	10	10000	4
64-383	P-8539	2,50	5.0	6	2000	4
64-384	P-8540	4.03	5.0*	8	2000	5
64-385	P-8541	4.38	5.0*	13	2000	5
64-386	P-8542	8.67	5.0*	20	10000	10
64-387	P-8543	5.44	5.0*	21	2000	11
64-388	P-8544	2.35	6.3	3	2000	3
64-389	P-8545	2.73	7.5*k	4	2000	4
64-390	P-8546	3.79	7.5*	8	2000	6
64-391	P-8547	3.44	10.0*	4	5000	5
64-392	P-8548	4.32	10.0*	8	5000	6

*Has 115 V. primary tapped at 105 V. Filament voltage 10% higher than shown, can be obtained by connecting 105 V. primary to 115 V. line.

OUTPUT TRANSFORMERS

StockNo. Type	NET	Primary	Secondary	Audio Wt.
64-400 A-9040	\$5.14	1500, 2500 CT	4, 8, 15, 250, 500	30 W. 5
64-401 A-9041	9.41	1900, 6400 CT	4, 8, 15, 250, 500	100 W. 15
64-402 A-9042	2.79	2000 CT	4, 8, 15, 250, 500	5 W. 3
64-403 A-9043	4.23	3000, 5000 CT	4, 8, 15, 250, 500	20 W. 4
64-404 A-9044			4, 8, 15, 250, 500	
64-405 A-9045			4, 8, 15, 250, 500	
64-406 A-9046			4, 8, 15, 250, 500	
64-407 A-9047	4.03	0000, 10000 CT	4, 8, 15, 250, 500	
64-408 A-9048			4, 8, 15, 250, 500	
64-409 A-9049 64-410 A-9050		10,000 CT	4, 8, 15, 250, 500	
64-411 A-9051			14, 8, 15, 250, 500 14, 8, 15, 250, 500	
64-412 A-9052			4. 8. 15. 250, 500	10 W. 4

PLATE TRANSFORMERS

Stock No.	Туре	NET	DC Volts!	DC Ma.	Fig.	Lbs.
64-425	P-5060	\$ 4.32	400	250	H	10
64-426	P-6321	4.62	500-400-30	250	C	8
64-427	P-3535	6.79	750-600-400	300	H	16
64-428*	P-6322	6.47	1000-400	130-150	C	14
64-429	P-4030	7.70	1000-750	250	D	18
64-430	P-6152	12.02	1250-1000	300	F	26
64-431+	P-5053	13.26	1500-1250	300	F	30
64-432	P-6156	14.49	1750-1500	300	F	31
64-433	P-6154	15.14	2000-1750	300	F	32
64-436	P-6155	20.05	2500-2000	300	F	43
64-434	P-6153	15.71	1250-1000	500	F	36
64-435	P-6157	20.05	1500-1250	500	F	43
64-437	P-6159	25.61	1750-1500	500	F	52
64-438+	P-6162	29.28	2000-1750	500	F	57
64-439+	P-6163	35.49	2500-2000	500	F	60

*Tapped for dual rectifier. †Has 115-230 V. Primary. ‡After filter.

SWINGING CHOKES

Stock No.	Type	NET	Hys	Ma.	Ohms	insul.	Fig.	Lbs.
64-450	C-1400	\$1.85	8-40	175	100	3000	C	3
64-451	C-1401	2.29	8-30	200	80	3000	C	4
64-452	C-1403	4.23	8-25	300	80	5000	D	9
64-453		5.56	5-25	400	60	5000	D	13
64-454	C-1405	9.26	5-20	500	65	5000	F	17

SMOOTHING CHOKES

64-465 C-1421 \$1.85	_25	140	160	3000	C	3
64-466 C-1411 2.29 64-467 C-1413 4.23 64-468 C-1414 5.56	15	200	80	3000	C	4
64-467 C-1413 4.23	12	300	80	5000	D	9
64-468 C-1414 5.56	10	400	60	5000	D	14
64-469 C-1415 0 26	8	500	65	5000	F	17

STANDARD MODULATION TRANSFORMERS

Stock No.	Type	NET	Primary	Secondary	Audio	Lbs.
64-480	A-3812	\$0.82	10.000	4.000	5 W.	1
64-481			10,000	3.000- 8.000	25 W.	4
64-482	A-2906		6.000	3,300- 6,250	40 W.	7
64-484	A-3808		3,800	4.000-10.000	60 W	8
64-483	A-2907		8.000	3.300-12.500	90 W.	11
64-485	A-3829		6,900- 9,000	3.300- 6.250	175 W.	12
64-486						68

OHMITE VITREOUS ENAMELED RHEOSTATS

Underwriters' Approved heavy-duty wire-wound type for radio and power control cir-cuits. Metal contact shoe. Conservatively rated. Air-cooled. Insulated shaft for ¼' hole, 3 terminals. With knob. Shipping wt., 1 lb.

25 Watt-Type H	50 Watt-Type J	
No. Ohms EACH	No. Ohms EACH	
74-320 1\$2.65	74-350 .5)	
74-321 2)	74-351 1 \$2.94	
74-322 61	74-352 2 44.74	in the second
74-323 10	74-353 47	
74-324 15	74-354 8	
74-325 25	74-355 12	100 Watt-Type K
74-326 50 7 35	74-356 22	
74-327 100	74-356 22 74-357 50 74-358 80 2.65	No. Ohms EACH
74-328 175	74-358 807 4.03	74-380 0.5)
74-329 250	74-359 150	74-381 2 \$4.41
74-330 500	74-360 225	74-382 3
74-331 750	74-361 300	74-383 10
74-332 1000	74-362 500	74-384 25
74-333 1500 2.65	74-363 1000 2.79	74-385 50 A 19
14-224 4200	14-304 2300	74-385 50 4.12
74-335 3500 2.79	74-365 50001 0 04	74-387 500
74-336 5000 4.17	74-366 10000 / Z.74	74-388 1000 4 . 4 1
		14 000 1000 4 . 4 1

AEROVOX MICA CONDENSERS
Made of highest quality ruby-mica and nonmagnetic foil, in molded bakelite case. Metal
eyelet terminals tapped for 6-32 machine screws.
Moisture proofed; protected against shorts. Can
be stack-mounted. For all by-pass uses. Size,
15/6" x 111/6". With mtg. screws. Wt., 1 oz.



Stock No. | Cap. | NET | Stock No. | Cap. | NET | Stock No. | Cap. | NET

73-960 .000 73-961 .000 73-962 .000 73-963 .000	35	73-964 .0005 73-965 .001 73-966 .006 73-967 .01	35c 59c	73-968 73-969	.05	2.26
	TYPE	1651-2500	VOI	TS		- 110E

73-975,00005 73-976,00025 73-977,0005 73-977,0005 73-980,006 73-980,006 73-980,006 73-980,006 73-980,006 73-980,006	To locate	(3-975 .00005 (3-976 .00025) (3-977 .0005)	1	73-978 .001 73-979 .002 73-980 .006	\$0.53 .79 1.03	73-981 73-982	.01 \$1.65 .02 2.32
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TYPE 1652-5000 VOLTS

6	73-985 .00005	53c	73-988	0005150.73	73-991	.006	\$2.06
0	73-986,0001	53c	73-988	88.	73-992	.01	2.41
	73-987 .00025	62c	73-990	002 1.32	********		

THORDARSON High Quality TRANSFORMERS



An extremely popular line offering all necessary transformer units for dependable service in any type of Commercial or Amateur equipment. Each unit with mounting template. All primaries are for 115 volt 50-60 cycles. Other voltages on special order. Describe your requirements, and send deposit with order or write for quotations. Improved voltage regulation and minimum heat rise have been given prime consideration in the design of all Thordarson plate and filament type transformers.



FILAMENT TRANSFORMERS

			And the second second				
Stock No.	Туре	NET	Volts	Amps.	Insul.	Fig.	Lbs.
63-400	T50F61 T19F88	\$1.03	2.5 CT 2.5 CT	3.5 5.25	1600	2B 2B	11/4
63-402 63-403	T19F89 T19F90	1.18	2.5 CT 2.5 CT	10	1600 7500	2B 3C	21/4
63-404 63-405	T19F82 T64F33*	2.94	2.5 CT 2.5 CT	15 10	10000 7500	3C 2N	4
63-406 63-407 63-408	T63F99 T19F83 T19F84	3.53 1.91 1.32 1.62	5 CT 5 CT 5 CT	5 8	1600 1600 1600	2D 2B 3C	21/4
63-409	T19F85 T19F86	2.35 3.23 1.47	5 CT 5 CT	13 21	1600 1600	3C 3C	4
63-411 63-412	T19F91 T19F92	1.47	5.25 CT 5.25 CT	13	1600 1600	3C 3C	21/4
63-413 63-414 63-415	T74F23* T74F24* T19F80	2.94	5 CT 5 CT	13 21	1600	2D 2D	51/4
63-416 63-417	T19F81 T19F97	.79 .88 1.03	6.3 CT 6.3 CT 6.3 CT	2 3	1600 1600 1600	2B 2B 2B	1 11/2
63-418 63-419	T61F85 T73F60*	1.32 2.35 1.62 2.06	6.3,5,2.5 6.3 CT	2.5 5 6	1600 1600	2E 2D	11/2 31/3 21/4
63-420 63-421 63-422	T19F98 T19F99 T19F93	2.06	6.3 CT 6.3 CT	10	1600	3C 3C	23/4
63-423	T19F94 T19F95	1.47 1.76 1.62	7.5 CT 7.5 CT 10 CT	4 8 4 8 8 12	1600 1600 1600	3C 3C 3C	21/4
63-425 63-426	T19F96 T64F14*	2.06 2.94 3.67	10 CT 10 CT	8 8	1600 1600	3C 2D	23/4
63-427	T19F87	3.67	10 CT	12	1600	3C	63/4

*Primaries tapped at 105, 110 and 115 volts.

STANDARD MODULATION TRANSFORMERS

Stock No.	Туре	NET	Primary	Secondary	Audio	Lbs
63-450	T67M69	\$1.62	10000	2700	10 W.	2
63-451	T17M59	1.62		3000, 3750, 4500	10 W.	2
63-452		3.53	5800	5000, 10000	40 W.	5
63-453			10000	3750, 6600	75 W.	7
63-454			8400		100 W.	
63-455		5.88		2500, 5000, 7500		
63-456				2850, 4500, 6500		
63-457	T82 M25	24.99	9000	14000, 6000, 8000	650 W.	147

BUD "JUNIOR" TRANSMITTING CONDENSERS



For low and medium power applications. Uses only 3" x 2's" panel space. Rounded plates. Alsimag 196 insulated. Avg. shpg. wt., 3 lbs.



SINGLE SECTIONS

Stock No.	Туре	Mmf. Cap	Per Sec.	Airgap	NET
72-900 72-901	JC1525 JC1526	50 Max. 100 Max.	4 Min. 6 Min.	.051"	\$1.79
72-902	JC1527	145 Max.	7 Min.	.051*	2.29
72-903	JC1528	250 Max.	11 Min.	.051*	2.85
72-904	JC1529	340 Max.	15 Min.	.051*	3.56
72-905 72-906 72-907	JC1530 JC1531 JC1532	25 Max. 35 Max. 55 Max.	4 Min. 4 Min. 6 Min.	.078** .078**	1.76 1.85 2.06
72-908	JC1533	80 Max.	7 Min.	.078"	2.15
72-909	JC1534	110 Max.	9 Min.	.078"	2.50
72-910	JC1535	150 Max.	12 Min.	.078"	3.00
72-911	JC1536	190 Max.	15 Min.	.078**	3.73
72-912	JC1537	245 Max.	17 Min.	.078**	4.44
72-913	JC1538	20 Max.	5 Min.	.144*	1.94
72-914	JC1539	40 Max.	7 Min.	.144"	2.15
72-915	JC1540	55 Max.	9 Min.		2.50
72-916	JC1541	80 Max.	12 Min.		2.85
72-917	JC1542	105 Max.	15 Min.	.144"	3.29
72-918	JC1543	18 Max.	5 Min.	.175"	2.15
72-919	JC1544	40 Max.	9 Min.	.175"	2.85
72-920	JC1545	55 Max.	10 Min.	.175"	3.20
72-921	JC1546	85 Max.	16 Min.	.175"	3.56
72-922	JC1547	100 Max.	17 Min.	.175"	4.26

DUAL SECTIONS

JC1550	20 Max.	3 Min.	.051*	\$2.50
JC1551	50 Max.	5 Min	.051	3.00
JC1552	70 Max.	5 Min	.051"	3.56
JC1553	100 Max.	6 Min.		3.88
IC1554	145 Max			4.65
				5.17
		11 Min.	.051"	6.08
JC1557	25 Max.	4 Min.	.078*	3.00
JC1558	35 Max.	4 Min.	.078*	3.20
JC1559	55 Max			3.56
				4.12
				4.44
JC1562	150 Max.	11 Min.	.078"	5.35
JC1563	20 Max.	5 Min.	.1447	3.56
JC1564	40 Max.	7 Min		3.88
IC1565				4.17
				3.88
301301	40 Max.	> print	.173	4.44
	JC1551 JC1552 JC1553 JC1554 JC1555 JC1555 JC1557 JC1558 JC1559 JC1560 JC1561 JC1562 JC1563	C1551	Colssi	1C1551

PLATE TRANSFORMERS

Stock No.	Type	NET	DC Volts	DC Ma.	Fig.	Lbs.
63-500	T19P54	\$3.53	400	150	2G	7
63-501	T19P55*	3.82	500-400	250	2Ğ	8
63-502	T19P56	4.12	750-600	225	2G	10
63-503	T19P57+	5.00	1000-400	125-150	2G	11
63-504	T19P58†	8.82	1000-750	200-150	2G	19
63-505	T19P59	10.29	1000-1250	300	2K	27
63-506	T19P60	12.35	1250-1500	300	2K	29
63-507	T19P61	13.23	1500-1750	300	2K	31
63-508	T19P62	15.73	1750-2000	300	2K	35
63-509	T19P63	15.13	1000-1250	500	2K	38
63-510	T19P64	17.49	1250-1500	500	2K	44
63-511	T19P65	18.23	2000-2500	300	2K	44
63-512	T19P66	24.40	1500-1750	500	2K	46
63-513	T19P67	29.40	1750,2000	500	2K	51
63-514	T19P68	34.40	2000-2500	500	2K	61

*Bias tap at 30 volts. †Designed for double rectifiers; supply both secondary voltages simultaneously.

SWINGING CHOKES

Stock No.	Туре	NET	Hys.	Ma.	Res.	Insul.	Fig.	Lbs.
63-530 63-531 63-532 63-533 63-534	T19C36 T19C37	\$1.91 2.35 4.12 7.35 8.82	5-20 5-20 5-20 5-20 5-20	150 200 300 400 500	215 130 105 90 75	3000 3000 5000 5000 5000	2F 2D 2D 2K 2K	4 6 11 20 26
SMOOTHING CHOVES								

SMOOTHING CHOKES

63-550 T19C46 \$1.91 12 63-551 T19C42 2.35 12 63-553 T19C43 4.12 12 63-553 T19C44 7.35 12 63-554 T19C45 8.82 12	200	130	3000	2D	6
	300	105	5000	2D	11
	400	90	5000	2K	20
	500	75	5000	2K	26

THORDARSON CHT SERIES

Engineered and constructed for maximum efficiency under continuous load. Completely moisture-proofed and fully shielded. Each with individual mounting template. All plate and filament transformer primaries are tapped for operation from 115/230 volt, 50-60 cycle AC.



MULTI-VOLT PLATE TRANSFORMERS

Stock No.	Type	NET	DC Volts	Ma.	Lbs.
63-570	T15P15	\$20.58	1000-1250	300	52
63-571	T15P16	30.87	1000-1250	500	81
63-572	T15P17 -	22.05	1250-1500	300	55
63-573	T15P18	41.16	1500-1750	500	96
63-574	T15P19	39.69	2000-2500	300	85
63-575	T15P20	58.80	2000-2500	650	140

C. H. T. INPUT CHOKES

Stock No.	Туре	NET	Hys.	Ma.	Insul.	Ohms.	Lbs.
63-600	T15C36	\$ 5.29	5-25	200-20	4000	105	11
63-601	T15C37 T15C38	7.35		300-30		78 95	23
63-603	T15C39	13.23				86	39

C. H. T. SMOOTHING CHOKES

Stock No.	Туре	NET	Hys.	Ma.	Insul.	Ohms.	Lbs.
63-620	T15C45	\$ 5.29	12	200	4000	105	10
63-621	T15C46 T15C47	7.35	12	300	4000	78	22
63-623	T15C48	13.23	12	400 500	4000	95 86	24 39

MULTI-MATCH MODULATION TRANSFORMERS

Plug-in terminal board for matching any driver-mod, tube combination.

	Page 1		Cap.	Pri.Ma.	Sec. Ma.		1
Stock No.	Type	NET	Watts	Per Side	Ser.	Par.	Lbs.
63-630			40	100	145	160 290	8
63-632	T11 M76	13.23	125	210	160	320	18
63-633			300	250 320	250	500 640	30

MULTI-MATCH DRIVER TRANSFORMERS

Have plug-in terminal boards for matching various driver tube combinations. Recessed sub-base lugs permit single hole wiring.

Stock No.	Туре	NET	Cap. Watts	Piri, Ma. Per Side	Pri. to 1/2 Sec.	Lbs.
63-640	T1:5 D79*	\$5,29	15	60	4:1, 4.5:1, 5:1, 5.5:1, 6:1	-
63-641	T15D82†	5.29	15	3144123	1:3.15, 1:2.75,	0
	MA 137	1 3 73	1050		1.25, 1:2, 1:1,75,	53/4

*P. P. 45 or 2 A 3 5, 6B4G, etc. †500 ohm primary.

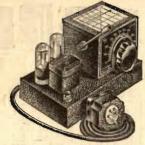
THORDARSON TRANSMITTER MANUAL

37-702, Completely revised. Contains transmitter schematic diagrams, modulation tables, coil data, power supply circuits, etc. An indispensable aid to everyone interested in Amateur radio. NET.....9c

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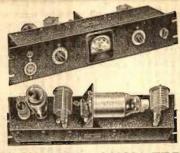


JAMES MILLEN PRODUCTS



"VARIARM" ECO UNIT

Here is instant fingertip control of transmitter frequency in an ECO. Uses a 6K7 electron-coupled-oscillator coupled to a 25L6GT operated either as a straight through amplifier or frequency doubler; transformerless power supply uses a 25Z5GT rectifier in a full-wave voltage-doubler circuit. Load-compensated keying circuit maintains constant output voltage from power supply. RF output of the amplifier is 2 watts over a frequency range of 75 KC plus or minus from the resonant frequency, plus or minus 150 KC when operated as a frequency doubler. Power output is ample to drive any of the commonly used tubes in the first or oscillator stage of existing transmitters. Tunes over the range from 3500 to 3650 KC at all times, and from 7000 to 7300 KC by frequency doubling. Supplied complete with parallel-resonant-tuned coupler to plug into normal crystal socket, coils, set of G.E. tubes and calibration chart. For 115 volts, 60 cycle operation. Shps. wt., \$3250



50 WATT TRANSMITTER

An Amateur band transmitter or exciter in a compact relay-rack type mounting. Uses a 6L6 Tri-tet oscillator and an 807 amplifier. Sufficient oscillator output at the fourth harmonic of the crystal frequency is obtainable to drive the 807 as a straight amplifier or doubler. It is possible to secure an output of 25 to 50 watts or more in four bands from a single crystal of the proper frequency. Unit is designed to operate from a 750 volt 250 ma. supply. It requires a fixed bias of 45 volts. Total filament drain is 1.8 amps at 6.3 volts. A single 200 ma. meter may be used to read plate current of either stage. Because it is possible to double or quadruple frequency in the plate circuit of the sollator and to double in the plate circuit of the 807, there are several possible combinations of coils and crystals which will produce the same output frequency. Less tubes but with one set of 3 coils. State band in which crystal operates and band in which output is desired. Shpg. \$3750 reg. \$38.0 met. An Amateur band transmitter or exciter in a

72-005. NET 59.38 down, \$7.46 monthly for 4 months.



FREQUENCY STANDARD

The Millen Frequency Standard has been especially designed for use wherever a high degree of calibration accuracy is required. Unit is easily adjusted to zero-beat with WWV or any other primary standard. It puts out uniformly accurate calibrating signals at 10, 160, and 1000 KC intervals. Uses the newly developed General Electric 1000 KC crystal which has a frequency temperature coefficient of less than one cycle/MC/C°. The crystal is sealed in a standard metal tube envelope filled with helium. Its frequency may be varied plus 75 cycles and minus 100 cycles from 1000 KC. The self-contained power supply uses a VR150-30 to maintain constant voltage regulation. In addition to the oscillator, multi-vibrators, and amplifier, a built-in detector with phone jack and gain control is incorporated. Uses 1—6K8, 2—6SC7, 1—6L7, 1—6V6, 1—5W4 and 1—VR150-30. Supplied complete with ubes and crystal. Size: 9"x9/x"x10/x". For 110 volt 60 cycle operation.

Shgs. wt., 20 lbs.

72-010. CASH PRICE...

527.50 down, \$10.93 monthly for 8 months.

\$8.13 down, \$6.46 monthly for 4 months. **NEUTRALIZING CONDENSERS**

72-000. CASH PRICE.



Fig. "A," for medium and low power has ultra-low-loss Quartz Q insulation. Fig. "B," heavy-duty telescoping cylinder type, has air dielectric, mounted on Isolantite standoff. Both types have metal mounting bases for vertical mounting. Compact but efficient units. Shpg. wt., 8 oz.

DUAL MIDGETS

ULTRA-MIDGETS

Stock No.	Туре	Mmf.	Fig.	NET
72-015		.7- 4.3 .5-13.5	A	\$.90
72-017	*15003	1.5- 8.5	A	1:05
72-018 72-019		3.4-14.6	B	3.00

Compact midgets for receivers or low power transmitters. Double spaced, ultra-high frequency type. Insulation is ultra-low-loss. Quartz Q dielectric. Metal mounting feet. Shpg. wt., 8 oz. 72-025. Dual 35 Mmf. 72-026. Dual 100 Mmf. \$2.75

*Peak Voltage: -- 6000 V.; †-- 1000 V.

TRANSMITTER DIAL





TUNING KNOBS

Similar to above but 15% dia. Etched numerals are 0 to 10 clock-wise. Black bakelite hub insulates nickel-silver scale from shaft.

Shpg. wt., 8 oz. 72-049. NET.....



50c

DISC DIAL

For condensers with shafts at right angles to from panel. Has 10 to 1 vernier ratio. Dial readines; 0-100. Dial disc is 33/4" in dia. With meter type escutcheon. Front plate is black molded bakefite. Shpg. vt., 1 lib. 72-0-52. \$2.25





GEAR DRIVE UNIT

Right angle worm-gear drive, 16 to 1 vernier taning ratio. 4" shaft. No backlash. Wt., 1 lb. 72-055. NET.....\$3.75

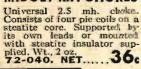


STEATITE TUBE SOCKETS

Higher steatite body provides maximum insulation between contacts and chassis. Low-loss type. Shog. wt., 4 oz.

72-060. 4 72-061. 5 72-062. 6 72-064. 8-octal





MIDGET R.F. CHOKES



IRON-CORE R.F. CHOKES



500 mh. transmitting type chokes. Ideal for high power at 14 MC. Consists of five pie coils on steatite with iron core. Has spun-glass insulated wire. With metal mounting base and soldering lugs. Shpg. wt., 5 oz. 72-043. NET. \$1.75

Provides protection against high voltage. Fits 866, 203Z, etc. Genuine Isolantite. Wt., 3 oz.

72-068. Large. For \$66, etc. NET 72-069. Small. For 807, etc. EA.

WE CAN SUPPLY ALL MILLEN PRODUCTS Send for Complete Millen literature. 37-010. Millen, Catalog—Sent FREE

"DESIGNED FOR APPLICATION"







Fig. B. Dial lock to maintain condenser setting in fixed position. Shpg. wt., 4 oz. 45c

Fig. D. Molded bakelite terminal block with 4 terminals. Nut and bolt type connectors with paised bakelite separators between each terminal. Easy-to-pat-at-solder lugs extend from base of block. Convenient 2-hole mounting. Ideal for all power supplies. Wt., 4 or. 60c



Fig. E. Bakelite safety terminal for bigh voltage. All metal parts enclosed in bakelite case Ensulated bushing extends through chassis. Tapered contact. Shpg. wt., 3 oz. 40c



Fig. E. Mica-bakelite safety terminal. Same as bakelite type but with higher safety factor. Wt. 3 oz. 50c

SHAFT COUPLINGS





Fig. A. Flexible coupling. No back lash. Drives at angles to 45°. Isolantite insulated. For 1/4° shafts. Wt., 3 oz. 36c

Fig. B. Standard flexible type. For 1/4" shafts. Isolantite insulation. Wt., 3 oz. 36c

OUR PRICES ARE ALWAYS LOWER—WE WILL NOT BE UNDERSOLD

ransmitting

CORNELL-DUBILIER



"TJU" FILTER CONDENSERS

Highest quality condensers. Hermetically sealed in steel containers. Selected dielectric impregnated and filled with Dykanol. Conservative voltage ratings. Universal bracket for upright or inverted mounting. Average wt., 2 lbs.

Stock No.	Mfd.	Wkg. V.	NET
73-600 73-601	1 2	600	\$2.06
73-602	2 4 1	600	3.23
73-605	2 4	1000	2.20
73-606		1000	2.94
73-607		1000	3.67
73-610	1 2 4	1500	2.65
73-611		1500	3.67
73-612		1500	5.00
73-615	1 2 4	2000	3.23
73-616		2000	3.82
73-617		2000	5.29
73-620	1	2500	4.70
73-621	2	2500	7.64
73-625	1	3000	7.06
73-626	2	3000	8.82



"TLA" SERIES

Especially designed for heavy-duty requirements in transmitter or high-fidelity audio amplifier power supplies. Hermetically sealed in inverted type round aluminum containers; ideal for use where space is limited. Diameter of can is only 1½". Dielectric is selected paper, impregnated and filled with Dykanol. Single hole mount with stud and lock nut. Center lead insulated-terminal type; metal can is negative connection. Will withstand transient voltages and high-peak voltage surges. Insulating washers are supplied. Av. shpg. wt., 2 lbs.

Stock No.	Mfd.	Wkg. V.	NET
73-630	2	600	\$1.62
73-631	3	600	1.91
73-632	4	600	2.20
73-635	1	1000	1.47
73-636	2	1000	1.91
73-640	0.5	1500	1.76
73-641	1	1500	1.91

WE CAN SUPPLY ALL C-D PRODUCTS Send for Complete C-D literature 37-014. C-D Catalog—Sent FREE.

FAMOUS GENERAL ELECTRIC PYRANOL-FILLED CAPACITORS



Efficient durable transmitting condensers of the best quality. These condensers will give exceptional service and long life. Filled and treated with Pyranol, a non-inflammable, non-explosive substance of unusual dielectric qualities. Hermetically scaled. With porcelain terminal bushings. Equipped with mounting flanges for easy upright bitage stand-off insulators. Efficient durable trans-

mounting and high voltage stand-off insulators

Stock No.	Type	Mfd.	Wkg. V.	NET
73-700	23F1	1	600	\$2.06
73-701	23F2	2	600	2.50
73-702	23F4	4	600	3.23
73-705	23F10	1	1000	2.20
73-706	23F11	2	1000	2.94
73-707	23F13	4	1000	3.67
73-716	23F20	1 2 4	1500	2.65
73-711	23F21		1500	3.67
73-712	23F23		1500	5.00
73-715	23F30	1	2000	3.23
73-716	23F31	2	2000	3.82
73-717	23F33	4	2000	5.29
73-720	23F39	1 2 4	2500	4.70
73-721	23F40		2500	7.64
73-722	23F41		2500	10.58

G. E. Pyranol Transmitting Capacitors are available in ratings up to 5000 V. DC.

37-026. Complete Listing—Sent FREE

MALLORY CAPACITORS







TZ, TR AND TX SERIES

These heavy-duty Mallory capacitors are especially suited for industrial, commercial, and transmitting applications. They feature the exclusively developed synthesized plastic dielectric "X-64" which contributes so much to their amazing performance records. "X-64" is a non-oxidizing, non-polar resin of exceptional stability. May be operated up to 200° F. Power factor decreases with increasing temperature. Will withstand higher instantaneous peak voltage than usual oil or wax impregnant. Other features are: extremely high insulation resistance, long life, low leakage, high dielectric constant, and small size. With clamps. Avge. shpg. wt., 2 lbs.

Stock No.	Type	Mfd.	Wkg.V.	NET
73-800	TZ382	2	600	\$1.62
73-801	TZ383	2 4 1	600	2.20
73-805	TZ384	1	1000	1.47
73-806	TZ385	2	1000	1.91
73-811	TZ386 TZ387	0.5	1500	1.76
			1500	1.91
73-815	TR760	1	1000	1.62
73-816	TR761	2	1000	2.20
73-817	TR762	4	1000	2.79
73-821	TR766 TR767	1	1500	2.06
73-825	TR770	1 2 1	1500 2000	2.79 2.65 2.94
73-826	TR771	2	2000	2.03
73-830	TR775	2	2500	2.20 2.79 2.06 2.65 2.94 3.53
73-835	TX801	1	-	
73-836	TX802		600	2.06
73-837	TX 803	2 4 1	600	2.50 3.23 2.20 2.94 3.67
73-840	TX 804	1	1000	3.50
73-841	TX805	2	1000	2.94
73-842	TX806	2 4 1 2 4	1000	3.0/
73-845	TX807	1	1500	2.65 3.67
73-846	TX808	2	1500 .	3.67
73-847	TX809	4	1500	5.00
73-850	TX810	1	2000	3.23
73-851	TX811	2	2000	3.82
73-852	TX823	4	2000	5.29
73-855	TX812	1	2500	4.70
73-856	TX813	2	2500	7.64
73-860 73-861	TX814 TX815	1241212	3000	7.06
73-861	1.7815	2	3000	8.82

SPRAGUE LIFEGUARDS

Live-rubber, high-voltage insulators as used on high-voltage terminals. Easily slip over binding posts of condensers, standoffs, connectors, etc. Shpg. wt., 2 oz. 74-200. PER PAIR... 15c

600 V. DC WKG. | 1200 V. DC WKG.



AEROVOX CONDENSER

HYVOL "05" SERIES

Increasingly popular for all transmitter requirements. These units have pure linen-paper dielectric, impregnated and filled with "Hyvol" oil. All voltage ratings are conservative for continuous operation. Hermetically sealed in round metal containers. Lead terminals equipped with lock nut and solder lugs are adequately insulated by means of high-tension pillars. Mounts upright or inverted. An exceptionally high-gradetransmitting condenser. With ring mount.



Stock No.	Type	Mfd.	Wkg. V.	NET
73-900	605	1	600	\$1.47
73-901	605	2	600	1.91
73-902	605	4	600	2.65
73-905	1005	1	1000	1.62
73-906	1005	2	1000	2.20
73-907	1005	4	1000	2.79
73-910	1505	1	1500	2.06
73-911	1505	2	1500	2.79
73-912	1505	4	1500	2.79
73-915	2005	1	2000	2.65
73-916	2005	2	2000	2.94
73-920	2505	1	2500	3.53
73-921	2505	2	2500	5.88
73-925	3005	1	3000	5.29
73-926	3005	2	3000	6.47

HYVOL "09" SERIES

Hermetically sealed in welded steel can; universal bracket for upright or inverted mounting. Dielectric is selected paper, impregnated and filled with "Hywol." the new superdielectric oil. For all heavy-duty requirements, Conservatively rated and dependable. High tension terminals with heavy-duty solder lugs.



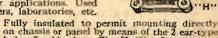
Stock No.	Туре	Mfd.	Wkg. V.	NET
73-930	609	1	600	\$2.06
73-931	609	2	600	2.50
73-932	609	4	600	3.23
73-935	1009	1	1000	2.20
73-936	1009	2	1000	2.94
73-937	1009	4	1000	3.67
73-940	1509	1	1500	2.65
73-941	1509	2	1500	3.67
73-942	1509	4	1500	5,00
73-945	2009	1	2000	3.23
73-946	2009	2	2000	3.82
73-950	2509	1	2500	4.70
73-951	2509	2	2500	7.64
73-955	3009	1	3000	7.06
73-956	3009	2	3000	8.82

WECAN SUPPLY ALL AEROVOX PRODUCTS Send far Complete Aerovox literature 37-001. Aerovox Catalog—Sent FREE



SANGAMO MICA CAPACITORS

High-quality, molded bakelite mica type capacitors, ideal for use in all Industrial, Commercial or Amateur applications. Used extensively in transmitters, laboratories, etc. Threaded holes for 6-32 screws permit stacking. Bakelite cased; ruby-mica dielectric. Accurate within 10%. Fig. A. Average shpg. wt., 2 oz.



Mfd. NET No. Mfd. NET 0.00005 \$0.35 74-030 .0001 .41 .0001 .35 74-031 .0001 .41 .0001 .35 74-032 .0002 .41 No. 74-000 74-001 74-002 74-003 74-004 .00025 74-005 74-006 74-007 74-008 74-015 .0005 .0015 .002 .0025 74-009 74-010 74-011 .003 .004 .005 .006 74-013 .008 74-014 .01 .02 .025 74-016 74-017 74-018 74-019 .03

74-170. Sam resistor clip 6c 74-059 OI Net, per pair,

	.35	74-032	,0002	.41
ı	.35	74-033	.00025	.41
1	.35	74-034	.0005	.41
1		74-035	.001	.53
Н	.35			
1	.35	74-036	.002	.79
١	.38	74-037	.004	.91
1	.38	74-038	.005	1.03
1	.44	74-039	.006	1.03
ď		74-040	.008	1.32
1	.50	74-041	.01	1.65
١	.50	-	102	-
1	.50	2500	V. DC V	NKG
1	.59			
1	.71	74-050	.00005	\$0.53
	.71	74-050 74-051	.00005	
-	.82	74-051	.0001	.53
-		74-051 74-052	.0001	.53
-	.82	74-051 74-052 74-053	.0001 .00015 .00025	.53 .59 .62
-	.82 1.09	74-051 74-052	.0001	.53
	.82 1.09 1.35	74-051 74-052 74-053	.0001 .00015 .00025	.53 .59 .62
	.82 1.09 1.35 1.47	74-051 74-052 74-053 74-054	.0001 .00015 .00025 .0003	.53 .59 .62 .73
	.82 1.09 1.35 1.47	74-051 74-052 74-053 74-054 74-055	.0001 .00015 .00025 .000\$.53 .59 .62 .73

2.41

holes. 2 solder lugs. Fig. H. Wt., 2 oz.					
and the same of	. DC V	The state of the s	A STATE OF THE PARTY OF THE PAR	V. DC	NKG.
No.	Mfd.	NET	No.	Mfd.	NET
74-100	.00005	\$0.29	74-130	.00005	\$0.41
74-101	.0001	.29	74-131	.0001	.41
74-102	.0002	.29	74-132	.0002	.41
74-103	.00025	.29	74-133	.00025	.41
74-104	.0003	.29	74-134	.0005	.41
74-105	.0004	.29	74-135	.001	.53
74-106	.0005	.29	74-136	.002	.79
74-107	.001	.29	74-137	-003	.91
74-108	.0015	.29	74-138	.004	.91
74-109	.002	.32	74-139	.005	1.03
74-110	.0025		74-140	.006	1.03
74-111	.003	.41	74-141	.008	1.32
74-112	.004	.41	74-142	.01	1.65
74-113	.005	.41	2500	V DO 1	NVC
74-114	.006	.50	2500	V. DC V	VKG.
74-115	.008	.59	74-150	.00005	\$0.53
74-116	.01		74-151	.0001	.53
74-117	.015	.79	74-152	.0002	.62
74-118	.02	.91	74-153	.00025	.62
74-119	.025	1,12	74-154	.0005	.73
74-120	.03	1,23	74-155	.001	.88
- CANCELLIE	Carlo Santo	Checken !	74-156	.002	1.32
	or com		74-157	.003	1.62
Sangan		alog.	74-158	.004	1.85
37-027	. Sent F	REE.	74-159	.005	1.94

TRANSMITTING CONDENSERS

TYPE TMS

Precision type con-densers for low-

densers for low-power stages of transmitters. Airgaps: .026' for TMS types. .065' for TMSA. *Low C condensers are rated at 2000 V. Peak, others are 1000 V. Peak. Average shipping weight, 2 lbs.

Stock No.	Mfr's. Type	Max. Mmf.	Min. Mmf.	NET
	TM S-100	100		\$1.65
	TMS-150	150	11	1.83
71-002	TMS-250	250	13.5	1.98
71-003	TMS-300	300	15	2.37
71-004	TMS-50D	50-50	6-6	2.49
71-005	TMS-100D	100-100	7-7	2.97
71-006	TMSA-35	*35	8	1.98
71-007	TMSA-50	*50	11	2.16
71-008	TMSA-50D	*50-50	101/2-101/2	2.64

TYPE TMC MODERATE POWER



For use in power stages of transmit-ters where peak voltage does not ex-ceed 3000 V. Exceed 3000 V. Ex-tremely rigid frame. Full Isolan-tite insulation. Plates have buffed edges; air-gap is .077". *Dual stator. Av. wt., 4 lbs.

Stock No.	Mfr's. Type	Max. Mmf.	Min. Mmf.	NET
	MC-50 MC-100	50 100	10	\$2.64
71-017	TMC-150 TMC-250	150 250	17 23	3.48
	CMC-300 CMC-50D	300 *50-50	25 9-9	4.29
71-021	MC-100D MC-200D	*100-100	11-11	4.95

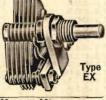
TYPE ST



Stock No.	Mfr's. Type	Max. Mmf.	Min. Mmf.	NET
71-030		15	3	\$0.93
71-031		25	3.25	.99
71-032		50	3.5	1.05
71-033		35	6	.99
71-034	ST-50	50	7	1.20
71-035	ST-75	75	8	1.32
71-036	ST-100	100	9	1.50
71-037	ST-140	140	10	1.65
71-038	ST-150	150	- 10.5	1.65
71-039	STH-200	200	12	1.83
71-040	STH-250	250	13.5	1.98
71-041	STH-300	300	15	2.16
71-042	STH-335	335	17	2.31
71-043		50-50	5-5	2.31
71-044	STHD-100	100-100	51/2-51/2	2.97

EXPERIMENTERS' CONDENSERS

A superior low-priced midget condenser for SW set builders. Sturdy, all-brass construction with bakelite insulation. Rotor and stator plates easily removed. Shpg. weight, 1 lb. *Double spaced; others single.



Stock No.	Mfr's. Type	Max. Mmf.	Min. Mmf.	NET
71-050* 71-051* 71-052* 71-053	EX-15 EX-25 EX-35 EX-50	15 25 35 50	3.5 3.75 3.75	57c 57c 66c 60c
71-053 71-054 71-055	EX-100 EX-140	100 140	4.75	66c 84c

NATIONAL QUALITY DIALS

TYPE B 4"



A compact dial with a smooth variable ratio drive. Dial scale is read through a window, Bakelite case. For 14" shaft. 71-060. 0-100-0, 180°. Ro-

71-061. 200-0, 360°, clockwise. Wt. 1 lb. \$1.83
71-062. Illuminator for dial, with bracket. Wt. ½ lb. NET....33c

TYPE BM 3"

Similar to the "B" dial, but smaller. Has fixed ratio vertuer. For "4" shaft. Wt., 1 lb. 71-065. 0-100-0, 180", universal. 71-066. 200-0, 360", clockwise. \$1.65



TYPE R 15%" DIAL
71-070. Neat eached silver
dial as used on the HR.O recrivers. Marked 0-10 over 180°
elockwise. 15% diam.; for 14°
shaft. Shpg. wt. 8 oz. 5 1c

1-071. HRP-P. Bar knob as used on HRO" dial. 11/4 x 1/2". With polunter. 24c

TYPE A 4" DIAL



Smooth "Velvet Vernier" dial. free from backlash. Self-contained mechanism. Ratio 5:1. For ¼" shaft. Wt., 8 oz. 71-074. 0-100, 180* Counter Clockwise.

7 1-075. 150-0, 270° Clock-\$1.98 EACH

AUDIO COUPLER



144

For coupling output of screen grid detector to grid of audia tube. Consists of 700 heary plate coupling choke, Ot coup-ling condenser, and .25 meg-ohm resistor in case. Wit., 2 lbs.

71-089. S101. \$3.96

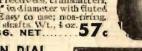
TYPE O 31/2" DIAL

71-082. Attractive circular-grained Nickel Silver dial. 3½ diam. Reads 0-100 over 180° C.C. Large fluted finger-grip knob for easy tuning. Fits ¼ shafts. Wt., 10 oz. 99c.

71-085. ODD. Vemier drive knob for type "O" dial drive. NET....

HRK KNOB





ACN DIAL

For amateurs and experimenters who build their own" and desire direct calibration, ideal for fre-

bration. Ideal for frequency monitors, ECO's, etc. Uses Velvet Vernier drive unit. With 3 blank removable scales. Holes in pointer for making calibration points. Size: 5 x 7½". Snpg. wt., I Ib. \$2.97

CATHODE-RAY OSCILLOSCOPE

TYPE CRM

TYPE CRM

Complete oscilloscope for use with "9(3" carbode ray tube. Brilliancy and Sweep Amplitude controls on front panel. Built-in power supply. If as 60 cycle sweep circuit. Measures phase angles and phase distortion; checks for percent modulation, etc. Requires: 1—913 tube with 1" screen; 1—6x5 rectifier, 4½ x 6½ x 8". For 110 V., 50-60 cycles. Shog. wt. 9 lbs.

36-G1.G. Less tubes, NET. \$12.21

38-011. RCA Tube Kit. NET. \$4.84



NEUTRALIZING CONDENSERS TYPE NC-600

DISC TYPE

High voltage neutralizing condens-sers for high power tubes. Microm-eter adjustment with lock nut. Low-loss Steatite insulation. Three hole mounting bracket. NC-800 is for RCA-800, 35T, HK54, and similar tubes; NC-150 for HK354, RK-36, 100TH, 852, etc.; NC500 for WE-251, 250TH, 450TH, etc.

51, 2501H, 4501H, etc.					
Stock No.	Type	Max. Cap.	NET		
71-095	NC-800	10	\$1.98		
71-096	NC-150	14	4.29		
71-097	NC-500	14	8.25		

UNIVERSAL MOUNTING TYPE CIR ISOLANTITE SOCKETS



Unusually adaptable universal low-loss Isolantite socket. May be mounted in several ways by means of two metal standoffs and six-position metal flange which is supplied. Flange removable for mounting on chassis. Full pin-wiping terminals provided which do not extend above top of socket and cannot cause shorts. Ideal for low-loss receiver and transmitter circuits. Shpg. wt., 4 oz.

Stock No.	Prongs	Stock No.	Prongs
71-100	4	71-103	7 L
71-101 71-102	6	71-104	7 S 8 Octal

NET EACH **27**_c

TYPE XC SOCKETS

Isolantite sockets for use in H.F. receivers and in low power stages of x-mitters. 6 prong socket for National Coils is square; others are as illustrated. Shpg. wt., 4 oz.



435

Stock No.	Prongs	Stock No.	Prongs
71-110	4	71-113	7 L
71-111	5	71-114	7 S
71-112	6	71-115	8 Octal
NET			00
EACH			39
71-118.	prong (Fe	or Coils)	51c

ACORN TUBE SOCKETS

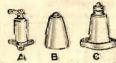


Type XCA. For use with Triodes. Five contact clips on rounds Isolantite base. Wt., 3 oz. 99c

Type XMA. For Pentodes. Has square copper base; all contacts by-passed. \$1.32

STAND-OFF INSULATORS

Molded steatite insulators. Glazed topreventmoisture



toprevent moisture absorption. Fig. A B C
"A'" is Stand-off Insulator, complete with mounting base and top cry—'\(\frac{1}{2}\)" dia size have solder ling and servey. \(\frac{1}{2}\)" dia, have heavy binding screw. Fig. "B," Cone Insulator, for neutring parts on metal chassis; threaded 8-32 at both ends. Fig. "C;" Feed-Through Insulator, have flange type steatife base, 1\(\frac{1}{2}\)" mounting centers. Shpg. wt., 8 oz.

Stock No.	Type	Fig.	Hgt.	Dia.	NET
71-125	GS-1	A	13/8"	11/2"	\$0.24
71-126	GS-2	A	27/8"	1/2."	.30
71-127	GS-3	A	2 1/8	3/4"	.60
71-128	GS-4	A	47/8"	3/4"	.72
71-129	GS4A	A	6"	3/41	1.05
71-130	GS-3	B	114"		.24
71-131	GS-6	B	2"		.42
71-132	GS-7	п	132#		.75
71-133	GS-8 GS-0*	č	1324		.54

*Has jack for standard banana plug.

EQUIPME





NATIONAL R-100 RF CHOKE

Ideal for high frequency circuits. Extensively



TRANSMITTER CHOKES

Universal chokes with honey-comb-type windings. Rated at 600 ma., continuously. Inductance, 4 mh., 10 ohms DC resistance. R152 for 80 and 160 meters. R154 for 20, 40, and 80 meters; 1 mh., 6 ohms. 71-154. R152. 71-155. R154. \$1.50

71-156. Type R154U. For 20, 40 and 80 meter bands. Five section honeycomb coil on Isolantite core, with solder lugs. Rated at 600 ma. continuous, 1 mh. inductance, 6 ohms. Less insulating pillar and third \$1.17 mounting foot. 1 lb. NET......

71-160. Type R-175. For parallel or series feed circuits up to 3,000 volts modulated plate supply. High inductive reactance 1.7 to 28 MC. Inductance, 225 uh; distributed capacity, 6 mmf; current, 800 ma; 6 ohms. \$1.83

PLUGS AND JACKS







71-166. Fig. B. FWC Insulators. Molded R-39. Will mount two FWE jacks or FWA posts. Fit chassis or panel up to ¼. 24c

71-167. Fig. C. FWA Binding Post, Jack top for banana plugs; hole for positive clamping of wire leads and husky screw top. 18c







71-168. Fig. A. FWE Jack. Banaua plug type especially suited for use with the FWC insulators listed above. Fit any panel or insulator strip up to ½". Shpg. wt., 1 oz.

71-169. Fig. B. FWF Plug. Molded R-39 with banana plugs spaced 1/4". Takes leads through top or sides; set screws hold leads firmly. Fits FWE jacks or FWA posts.

71-170. Fig. C. FWD Assembly. Consists of FWF plug, two FWE jacks, and two FWC insulator strips. When plugged together, all metal parts are insulated for safety. \$1.05



SHAFT COUPLINGS

71-260. TX-9. Hubs fit ¼" shaft. Insulation is Steatite. 72c 71-261. TX-10. Like TX-9 but has 36c bakelite insulation. NET.....

71-262. TX-12. 4% flexible shaft with 1/4" hubs. Isolantite insulated..... 84c

71-263. TX-11. Like TX-12 but 41/4. 39c

NATIONAL COILS AND COIL FORMS

50 WATT COILS TYPE AR-16

A complete series of low-loss airspaced coils for use in exciters,
buffers, and low power finals.
Victron-insulated. All sizes will
tune over their respective bands,
and all have separate windings
for link coupling as listed. All fit
XB16 socket, 71-236, listed at right below.
Socket not included. Shpg. wt., 10 oz.

End	Center	Swing	Ama-	Mmf.
Link	Link	Link	teur	
No.	No.	No.	Bands	
71-181 71-182 71-183	71-192 71-193	71-200 71-201 71-202 71-203	40 20	65 60 55 40 25



FIXED TUNED EXCITER TANK

Ideal for use in multi-band exciters using bandswitching. Metal case, 4½x2½x2″ contains two 25 mmfd. 2000 Volt condensers and XR-2 coil form, 1½″ long, 1″ diam. 71-205 fits 5-prong tube socket. 71-206 fits special 6-prong socket, 71-118, page 144. Wt., 6 oz.

71-205. TYPE FXTB. 5 Prong. 71-206. TYPE FXTB. 6 Prong. \$3.24 NET EACH.... 71-207. TYPE FXT. Without \$2.97



PLUG-IN COIL BASE AND SHIELD

A plug-in coil base and shield, especially suited for mounting condensers and coils when it is desirable to have them shielded. Shield can measures: 2"x23\%"x 4\%". 71-210 and 71-212 fit 5 prong tube socket. 71-211 and 71-213 fit special 6-prong socket 71-118, page 144. PB-10 with shield; PB-10A without shield. Wt., 8 oz.

Stock No. Type Prongs NET 71-210 71-211 71-212 71-213 51c 51c 27c 27c PB-10 PB-10 PB-10A PB-10A 656



RECEIVER COIL FORMS

Low-loss R-39 forms which are extremely popular with Amateurs and Experimenters. Easy to work, Fingergrip. 1½" dia., 2¼" long. Wt., 4 oz.

71-215.4 Prong. 71-216.5 Prong. 71-217.6 Prong.

PLUG-IN COIL FORM AND SOCKETS

This completely new UR10A coil form and socket assembly consists of the XR10A coil form for 20 and 40
meters and Isolantite Plugin Base and Socket. Five
prong base easily attached
to coil form by means of two
screws. Base may also be used separately for
air-wound coils. Socket and five mounting jacks
complete with special attachments for mounting on TMA condensers if desired. Wt., 1½ lbs.

71-220. TYPE UR-10A. Coil \$3.03 Form Assembly. Complete. NET...



Grooved and drilled ceramic forms for winding low-loss transmitter coils. Will make your home-made coils look professional. XR10A form measures: 2½" winding dia. x 5" long. XR-14A is 5" diameter. Both forms will fit the PB-15 plug and XB-15 socket above.

BUFFER COIL FORM AND SOCKET

A new Isolantite, low-loss coil form assembly, 1¼ dia. x 2¼ long. Plug with 5 prongs is easily attached to coil form by two screws. Socket is equipped with five rugged side-wiping contacts. Plug and socket are made of R39 low-loss insulation. Shpg. wt., 10 oz.

Stock No.	Acres de la Contraction	The second secon	. NET
71-231	XR-13 PB-5	Complete Assembly Coil Form only. Coil Plug only Coil Socket only.	.72

COIL FORMS

Unglazed Isolantite forms. 1¼" winding dia.x1¼" long. Drilled for leads. Socket type XB-16 also fits all AR-16 coils. Plug, socket, and coil form are available sonarcather or a combet. separately assembly

	or as complete aslisted. Wt., 8 oz.				
•	Туре	Description	EACH		
	PB16 XB16	Plug Socket	27c 33c		
	XR16	Coil Form.	39c		

Stock No 71-235 71-236 71-237 XR16 Coil Form. 39c 71-238 UR16 Complete Unit 99c



STEEL CABINETS

Rugged steel cabinets for receivers and labora-tory equipment. Panels and sub-bases un-drilled. Black wrinkle finish. With sub-base and bottom cover. Average shpg. wt., 5 to 10 lbs.

Stock No.	Type	W H	D	NET
88-000	C-SRR	71/2×7	x 71/2"	\$2.31
88-001	C-FB7	111/2x8	x 71/2"	4.62
88-002	C-PSK	6 x8	x12"	3.96
88-003	C-SW3	93/4×7	x 9"	3.63
88-004	C-110	11 x7	x 71/4"	
88-005	C-HWR	131/2x7	x 71/4"	3.30
88-006	C-HRO	163/4x83/	x10"	5.61
88-007	C-NC100	171/4×83/	4x111/4"	5.61

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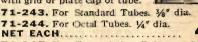
LOW FREQUENCY OSCILLATOR COIL

Two separate inductances, closely coupled, in shield can. Used in super-regenerative sets as interruption-frequency oscillator, Sec. Inductance, 6.25 mh. Tunes to 100 KC with .00041 mfd. condenser. Wt. 502.



GRID & PLATE CLIPS"

Unique construction assures perfect continuous contact with grid or plate cap of tube.



71-245. For Transmitting Tubes, such as 866, T20, 809, 03Z, 812, etc. %6" dia.

7c

SAFETY PLATE GRIP

SPG Safety Grip of molded R-39. For tubes with %6" cap, Tike 866. etc. 71-246. NET 24c



145



ammarlund Precision PRODUC

FAMOUS "STAR" MIDGET CONDENSERS

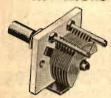


Popular low-priced midgets for set builders and experimenters. Sizes for short wave tuning, regeneration, verniers, etc. Single hole mount, 1/4" shaft. Size, 19/6" x 11/4" high, and up to 17/8" deep behind panel. Wt., 6 oz.

Stock No.	Mfr's. Type	Max. Mmf.	Min. Mmf.	NET
72-200	SM-15	15	3	54c
72-201	SM-25	25	3.5	54c
72-202	SM-50	50	4	60c
72-203	SM-100	100	6	72c
72-204	SM-140	140	7	84c
72-205	SM-35X	35*	6.5	72c
72-206	SM-50X	50*	7.5	84c

Double-spaced units with .064 airgap for low-power transmitters. Others, .032*.

"HF" MICRO CONDENSERS



A new series of ultrahigh frequency variables. Very efficient in tuning or trimming critical high frequency circuits. Heavily plated plates. Isolantite insulation. Equipped with special wide front bearing. *D ual-spaced units. Shpg. wt., 4 oz. new series of ultra-

Stock No.	Mfr's. Type	Max. Mmf.	Min. Mmf.	NET
72-215	HF-15 HF-35	17.5	2.8	\$0.84
72-217	HF-50 HF-100	50	3.7	1.02
72-219	HF-140	140	6.2	1:26
72-220	*HF-15-X *HF-30-X	30	3.6 5.2	1:02

"HFD"	DUAL	MI	CR	OS
-------	------	----	----	----

No.	Туре	Cap. per Sec.	NET
72-230	HFD-50	50	\$2.16
	HFD-100	100	2.46
	HFD-140	140	2.70
	*HFD-15-X		2.04
72-234	*HFD-30-X	28.5	2.28

"APC" MICRO CONDENSERS



High quality air-dielec-High quality air-dielectric condensers; compact in size. Particularly adaptable to S.W. and Ultra S.W. work. Isolantite base. Air gap .015". Will fit 1\%" dia .cans. Screwdriver adjustment. Wt., 4 oz.

No.	Mfr's. Type	Mmf.	Mmf.	NET
72-250	APC-25	25	3.0	\$0.78
72-251	APC-50	50	3.9	.90
72-252		75	4.5	1.02
72-253		100	5.5	1.14
72-254	APC-140	140	6.5	1.35



"SWF" LOW-LOSS COIL FORMS

Rugged low-loss forms of XP-53. Ribbed for air-spacing, with flange grips. Have shelf inside for mounting padding condenser. 1½" dia. x 2½". Natural amber color. 4 oz.

72-275. 4 Prong EACH. 30c 72-276. 5 Prong EACH. 36c

"TCF" X-MITTING COIL FORMS

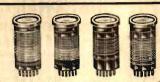
Of low-loss XP-53 dielectric. Ribbed for air-spacing; with flange grips. May be base-mounted on brackets supplied or plugged-in. 21/4" dia. x 31/8" long. Shpg. wt., 6 oz.

72-265. TCF-4. 4 Prong. | EACH... 48c



"CF-M" COIL FORM

Isolantite coil forms designed for maximum efficiency at ultra-high frequencies. Forms are 1½" in diameter, 2" long exclusive of prongs, and have holes drilled to permit almost any type of experimental winding. Made in 5-prong type only. Ideal for UHF receiver or transmitter coils. Shpg. wt., 4 oz. 78c



"SWK" TYPE PLUG-IN COILS

Efficient and well designed coils. Wound on low-loss XP-53 forms. High frequency coil secondaries are of heavy silver-plated wire. Others have heavy enameled copper wire. For use with 140 mmf. variable condenser. Specified in many builder's kits. Shpg. wt., 2 lbs. 4 Prong Coils: 17-270 Meters. Kit of 4 two-winding coils

winding coils.
72-290. NET..... \$2.55

6 Prong Coils: 17-270 Meters. Kit of 4 threewinding coils. \$3.00

INDIVIDUAL "SWK" COILS

These coils feature the ultimate in efficiency due to proper co-efficient of coupling, form factor, spacing of turns, size of wire, Wt., 4 oz.

Tuning Range	4 Prong	6 Prong
10-20 Meters 17-41 Meters	72-300	72-303
33-75 Meters	72-302	72-305
NET EACH	75 .	90.
66-150 Meters 135-270 Meters	72-306	72-308
NET EACH	60c	75c
250-560 Meters	72-310	72-311
NET EACH	75c	90c

ISOLANTITE SOCKETS



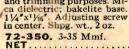
Stock No. Description		NET
72-320 72-321 72-322 72-323	4 prong	36c 39c 42c 45c
72-323 72-324 72-325	7 prong (Medium) 7 prong (Small) 8 prong (Octal)	45c 48c

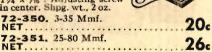


TRIMMERS AND PADDERS

"EC" EQUALIZERS @

For balancing, neutralizing and trimming purposes. Mica dielectric; bakelite base. 1/4'x'\s'. Adjusting screw in center. Shpg. wt., 2 oz.





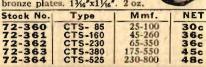
"MEX" EQUALIZER

Extremely small low-loss condenser. Screw adjustment. Isolantite base, with mica dielectric and phosphor-bronze plates. 3 to 30 mm. %**3'4". Shpg. wt., 2 oz. 72-342. NET.



TYPE "CTS"

Small round type ceramic padding condenser. Finest imported mica insulation; phosphorbronze plates. 11/16"x11/16". 2 oz.



HAMMARLUND CHOKES

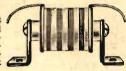
MIDGET CH-X CHOKE



For receivers and transmitters. Adaptable to many uses in even the smallest space. Universal-winding. Entirely impregnated. Center core is of Isolantite. May be mounted by its own leads in any position. DC resistance, 35 ohms. 2.1 mh. at 125 ma. 11/2*x1/2*. 4 oz. 30c

TYPE CH-8

A low-loss type 8 mh. RF choke ideal for short-wave re-ceivers and trans-Sectionwound on compact [solantite spool.



Moisture-proof windings are protected by lacquer and cellophane. Equipped with flexible leads and reversible end brackets for universal mounting. DC resistance, 70 ohms. Current rating 125 ma. 11/8"x1/8". 4 oz. 72-376. NET. 90c

CH-250 CHOKE



Low-loss compact RF chokes for low power X-mitters and receivers. Four universal wound impregnated pies on ½" Isolantite core. 250 ma. current rating; 1 mh. inductance; 10 ohms DC resistance. Only ½" in diam.; 1½" long. 4 oz. 30c. 72-377. NET. ... 30c.

TRANSMITTING CHOKE—CH-500

A heavy-duty choke for parallel feed in high-powered transmitters in 10-20-40-80-160-meter bands. Has universal-wound pies on Isolantite core. Inductance, 2½ mh.; DC resistance, 8 ohms. 500 ma. continuous rating. Size: 1¾6" diam. x 2½" long. Wt., 6 oz. \$1.05

RFC-85 CHOKE

High inductance choke for use in plate circuits of all B.C. and S.W. receivers. Specially wound and impregnated; extremely low distributed capacity for maximum efficiency. Inductance, 85 mh.; DC resistance, 215 ohms. Max. current rating, 60 ma. Bakelite case is 1136 high and 136 in dia. Wt., 80z.\$ 1.80



ISOLANTITE INSULATORS

Heavy-duty standoff insulators made of pure glazed Isolantite. Have many uses. Accurately cut threads prevent annoying thread stripping when end screws are tightened. All SOS types are ½" diameter; all SOL types are ½" diameter. Threaded top and bottom for machine screws of standard thread; less hardware. Highest quality. Av. wt., 3 oz.



Stock No.	Туре	Length	NET
72-390	5 OS-75	3/4"	10c
72-391	SOS-100	1"	13c
72-392	SOS-150	11/2"	17c
72-393	SOS-250	21/2"	20c
72-400	SOL-100	1"	20c
72-401	SOL-150	11/2"	26c
72-402	SOL-200	2"	33c
72-403	SOL-350	31/2"	46c

INSULATOR HARDWARE

Heavy brass, cadmium-plated hardware for use with insulators listed above. SOSP and SOLP consist of screw top with solder lug, lock washer, cork washer, screws and mounting base. SOSJ and SOLJ consist of same hardware but have jack top to accommodate banana plug. Shpg. wt., 2 oz.

Stock No.	Туре	NET
72-415	SOSP for SOS units.	7c
72-417	SOSJ for SOS units.	100

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CAN ALL AMATEUR GEAR--WRITE US

Fammarlund Precision PRODUCTS

FAMOUS HAMMARLUND CONDENSERS FOR ALL PURPOSES



MIDGET TYPE

High quality midget condensers. Insulat-ed with Isolantite. Cad mium-plated brass plates, .0225" thick with an .0245" air gap, are securely soldered to the $\frac{1}{4}$ ° shaft. Tested at 500 V. AC, Clockwise rotation. Shpg. wt., 1 lb.

No.	Mir's. Type	Max. Mmf.	Min. Mmf.	NET
72-425*	MC-20-S	20	5.5	\$1.32
72-426*	MC-35-S	35	6.0	1.38
72-427*	MC-50-S	50	6.5	1.44
72-428	M C-50-M	50	6.3	1.44
72-429*	MC-75-S	80	8.0	1.56
72-430	MC-75-M	80	7.3	1.56
72-431*	MC-100-S	100	8.3	1.68
72-432	MC-100-M	100	7.5	1.68
72-433	MC-140-M	140	9.0	1.80
72-434*	MC-140-S	140	10.0	1.80
72-435	MC-200-M	200	10.3	1.98
72-436	MC-250-M	260	12.0	2.16
72-437	MC-325-M	320	13.5	2.40

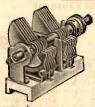
*Semi-circular plates. All others are Midline.

DOUBLE-SPACED MIDGETS

Have special bearings and Isolantite insulation. Exceptionally efficient. Air-gap .0715".

Stock No.	Mfr's. Type	Max. Mmf.		NET
72-450	MC-20-MX	20	6.5	\$1.44
72-451*	MC-20-SX	20	6.8	1.44
72-452*	MC-35-SX	32	8.5	1.56
72-453	MC-35-MX	32	7.8	1.56
72-454*	MC-50-SX	50	11.5	1.68
72-455	MC-50-MX	50	10.5	1.68
72-456*	MC-100-SX	100	16.5	2.10

*Semi-circular plates. All others are Midline.



DUAL MIDGET CONDENSERS

High quality two-gang midget condensers, designed especially to provide added efficiency at ultra-high frequencies. Plates are .0225° cadmium-plated brass; .0245° air-gap. Length behind panel, 3½°°. Wt., 11b.

72-465. MCD-50-S. 50 Mmf. per section. Semi-circular Plates. Min. cap. 5.5 mmf. 72-466. MCD-50-M. 50 Mmf. per section. Midline Plates. Min. cap. 5 mmf. \$2.76

72-467. MCD-100-M. 100 Mmf. per section. Midline Plates. Min. cap. 6.3 mmf. 72-468. MCD-100-S. 100 Mmf. per section. Semi-circular Plates. Min. cap. \$3.00

72-469. MCD-140-M. 140 Mmf. per tion. Midline Plates. Min. cap. 7.8 mmf. 72-470. MCD-140-S. 140 Mmf. per section. Semi-circular Plates. Min. cap. \$3.24

DOUBLE-SPACED DUAL MIDGETS

Similar to above, but have air-gap of .0715" be-tween rotor and stator plates. Ideal for U.H.F.

Stock No.	Mfr's. Type	Min- Mmf-	
72-475 72-476*	MCD-35-MX MCD-35-SX	6.8	\$2.88

*Semi-circular plates. Other is Midline.



BANDSPREAD MIDGETS

For use as bandspread tuning condensers in short wave receivers and for Amateur frequency me-ters. Tank' section may be locked for tuning with bandspread section. 1 lb.

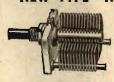
Stock No.		Tuning Cap.	NET
	MC-120-B MC-150-B		\$1.98



CONDENSER COUPLING

Bakelized canvas insulation; brass bushings. Flexible; for ganging con-densers, etc., without need of ex-act shaft alignment. For 1/4" shafts. 1/2" diameter. Shpg. wt., 3 oz. 45c

NEW TYPE "HFA" MIDGETS



Finest low-loss midget condensers. Require only 111/4"x 11/4" panel space. Ideal for receivers and low power trans-mitters. Heavy brass cad mium-plated plates. 100% sold-

ered to eliminate high resistance contacts, Isolantite end plate permits insulating rotor from panel. Plates, 0,20" thick. Shaft dimensions: standard 1/4" dia., 1/6" extension. 6 oz.

SINGLE SECTION UNITS

Stock No.	Mfr's. Type	Mmf.	Air	NET
72-500	HFA-75-A	75	.020"	\$1.44
72-501	HFA-100-A	100	.020"	1.56
72-502	HFA-140-A	140	.020"	1.80
72-503	HFA-10-B	10	.030"	1.20
72-504	HFA-15-B	15	.030	1.26
	HFA-25-B	25	.030"	1.32
72-506	HFA-35-B	35	.030"	1.38
	HFA-50-B	50	.030	1.44
72-508	HFA-100-B*	100	.030"	1.92
	HFA-150-B*	150	.030"	2.22
	HFA-15-E+	15	.070"	1.32
72-511	HFA-30-Et	30	.070"	1.50

*Has both front and rear Isolantite plates. †1,500 V. modulated

DUAL SECTION UNITS

Split stator units with opposed stators and rotors. Similar to HFA. 11/8" sq. Isolantite end plates on both front and rear. Wt., 8 oz.

72-520 HFAD-75-A	75	.020"	\$3.00
72-521 HFAD-100-A	100	.020"	3.18
72-522 HFAD-140-A	140	.020"	3.54
72-523 HFAD-25-B	25	.030"	2.34
72-524 HFAD-35-B	35	.030"	2.46
72-525 HFAD-50-B	50	.030"	2.64
72-526 HFAD-100-B	100	.030"	3.24
72-527 HFAD-150-B	150	.030*	3.84
72-528 HFAD-15-Et	15	.070"	2.40
72-529 HFAD-30-E†	30	.070"	2.76

†1,500 V. modulated.

INSULATED ROTOR TYPE "HFB"



Compact high voltage condens-ers for panel or chassis mounting. Rotor insulated

Isolantite end plates, 11% 3q. Insulated control shaft for safety. Shaft dimension—¼ dia., 13% extension. Average shpg. wt., 2 lbs.

Stock No.	Mfr's. Type	Mmf.	Air-	NET
72-536 72-537 72-538 72-539 72-540	HFB-50-C HFB-100-C HFB-150-C HFB-50-E* HFB-50-F† HFB-100-F†	50 100 150 50 100 50	.050" .050" .050" .070" .070" .100"	\$2.76 3.06 3.36 2.94 3.48 3.00 4.14

DUAL SECTION UNITS

72-550 HFBD-35-C	3.5	1 050%	\$4.08
72-551 HFBD-50-C	50	.050"	
72-552 HFBD-100-C	100	.050"	4.98
72-553 HFBD-200-C	200	.050"	6.60
72-554 HFBD-35-E*	35	.070"	3.72
72-555 HFBD-65-E*	65	.070"	4.26
72-556 HFBD-100-E*	100	.070	5.40
72-557 HFBD-35-F†	35	.100"	3.96
72-558 HFB D-65-Ft	65	.100"	4.95
72-559 HFBD-35-Gt	35	1.125"	4.35

*Max. 100% modulated voltage, 1500 V. †2000 V.; ‡2375 V. *†‡Have polished rounder plate edges. Others have standard plates.



NEUTRALIZING CONDENSERS

New rounded edge, thick metal-plate type. Over-sized fine thread provides micrometer tuning. Has micrometer tuning. Has lock nut for permanent setting. Isolantite insula-tion-bars will not pivot.

13/6" Size, 2\%x1\%". Wt., 2 lbs. \$2.76

TYPE "MTC" CONDENSERS

SINGLES

A popular series of ruggedly built condensers for use in low or moderate power transmitters for either high or ultra-high frequency operation. Isolantic insulation. Silverplated Beryllium rotor contact wiper



rotor contact wiper; floating bearings for consistently smooth operation. Av. wt., 3 lbs.

Stock No.	Mfr's. Type	Mmf.	Air- gap	NET
72-580t	MTC-20-B	22	.070"	\$2.46
72-581	MTC-35-B	33	.070"	2.58
72-582	MTC-50-B	50	.070"	2.76
	MTC-100-B	100	.070"	3.18
	MTC-150-B	150	.070"	3.66
	MTC-50-C	46	.031"	2.46
	MTC-100-C	105	.031"	2.64
	MTC-150-C	150	.031"	2.88
	MTC-250-C	255	.031"	3.18
72-589*	MTC-350-C	360	.031"	3.48

†3000 V.—Polished round edge plates. *1000 V.—Standard type plates.

"MTC-D" DUAL CONDENSERS

Split stator condensers with all features of MTC singles above. Connect stators in series for half the capacity at twice the breakdown voltage. Average shpg. wt., 4 lbs.

Stock No.	Mfr's. Type	Cap. Per Sec.	Air- gap	NET
	MTCD-20-B	22	.070"	\$3.36
	MTCD-35-B	33	.070"	3.60
	MTCD-50-B	50	.070"	3.90
	MTCD-100-B	100	.070"	5.25
72-604*	MTCD-50-C	46	.031"	3.30
	MTCD-100-C	105	.031"	3.60
72-606*	MTCD-150-C	150	.031"	3.90
72-607*	MTCD-250-C	255	.031"	4.50

†3000 V.—Polished round edge plates. *1000 V.—Standard type plates.

"ETU" EXCITER TUNING UNITS

For use in multi-band or band-switching type exciter units. Designed for use with 6L6, RK-39, and similar type low-power beam tubes. Consist of accurately wound coil with output link winding and two variable 25 mmf. double-spaced condensers. Enclosed in shield can. 2" x 4" x 1½6". Wt., 1 lb.

lose	d in
1310	EACH
ers	\$2 20

Stock No. Type Band
 Stock No.
 Type
 Band

 72-620
 ETU-10
 10 Meters

 72-621
 ETU-20
 20 Meters

 72-622
 ETU-40
 40 Meters

 72-623
 ETU-80
 80 Meters
 3.30

"ETU" UNWOUND UNITS

As above but have blank coil form 2" long and ½" diameter, with two 25 mmf. double-spaced trinmer condensers. Units tune from top. Fully enclosed in metal shield can. For custom tailored coils. Size, 2"x4"x11"/6". \$2.88

"CS-3" COIL SHIELD



"PTS" POWER TUBE SHIELDS

Reduce feedback. PTS is for 807, RK-23 etc. 24" dia., 3" high. PTSH is for RK-20, 814, etc.; 24" dia., 2%" high. Shop, wt., 6 oz. 72-650. PTS Shield. 72-651. PTSH Shleld. EACH.....26c

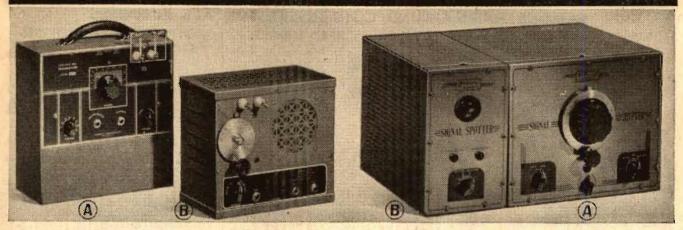
"TS-50" METAL TUBE SHIELD

Complete isolation is afforded by this shield for use with high-gain RF pentodes. Drawn-in neck completes shielding between top and bottom sections. Special design affords maximum cooling. 45% high, 15% diameter. With 12½ mounting centers Wt., 8 oz. 72-660. NET





LATEST AMATEUR GEAR



ABBOTT 112 MC TRANSCEIVERS Fig. A. MODEL DK-3

Fig. A. MODEL DK-3

The Model DK-3 transceiver is an unusually compact unit for radio'phone transmission and reception in the Amateur 2½ meter band of
112-116 MC. Ideal for Portable or Mobile operation or for use at the
home station. Sturdy steel carrying case, size 11"x11"x4½", with room
for all necessary batteries. Range varies from two to thirty miles,
depending upon elevation above ground. Simple to operate; panel
tuning with one control which functions in both receive and transmit
positions. Volume control is smooth acting and has no effect on tuning
of signal. Can be used as portable or portable-mobile unit with 4 foot
antenna; Ceramic antenna posts act as support for antenna in vertical
position. Tubes used are 1—6J5GT and 1—6G6G. Uses four 1½-volt
dry cells and three type No. M30 Burgess 45-volt batteries. Battery
drain is low, assuring maximum operating life and economical performance. Requires a single-button carbon mike and headphones or
combination cradle-type handset. Less tubes, batteries, headset, antenna and mike. A proven Transceiver constructed of high-quality.
low-loss parts. Shpg. wt., 12 lbs.

88-101. Accessory Kit. Contains 1—6J5GT and 1—6G6G tube,

88-101. Accessory Kit. Contains 1—6J5GT and 1—6G6G tube, 4 Burgess No. 4FH 1½-volt dry cells and 3 Burgess No. M30 portable 45-volt batteries, as listed above. Shpg. wt., 18 lbs. \$5.24

Fig. B. MODEL MRT-3

A high-power 2½ meter transceiver with power input of 20 watts. Especially designed for mobile service in automobile, plane or boat installations. Covers the entire band of 112-116 MC. Working range varies from 5 to 50 miles, depending on location and type of antenna used; actual tests indicate ranges up to 85 miles or more under ideal conditions. The MRT-3 requires 300 V. DC at 100 ma., and 6.3 volts at 3.5 amps. for filaments. Can be operated from 6-volt battery using type 300-BS vibrator pack, or from 110 volts AC with MRT-P supply, both listed below. Panel controls grouped for easy operation include veroller tuning, volume control and send-receive switch. Jacks provided for single button carbon mike input as well as for measuring oscillator and modulator current. Has 2 feed-through insulators for antenna. Built-in speaker. Tubes used are: 1—HV75, 1—6C5, and 1—6V6. Size, 9° x 8° x 4°. Wt., 12 lbs.

88-102. Less tubes, power supply, and mike. NET... \$28.81

88-105. MRT-P 110 V. AC power supply. NET...... 18.82

MEISSNER'S WINNING COMBINATION Fig. A. IMPROVED DELUXE "SIGNAL SHIFTER"

New, improved model of the famous "Signal-Shifter" ECO, equipped with oscillator keying for CW "break-in" operation. It permits instant frequency change in any given band—right from the operating position—and thus affords a positive method of dodging QRM. Low-impedance link output circuit permits coupling to any stage in the transmitter; has RF power output of approx. 7½ watts on 1.7, 3.5, 7, and 14 MC bands. Three-way control switch on panel for "Standby," "Manual On," or "Automatic On"; built-in relay provides full automatic on-off control with transmitter control switch. "Manual On" position permits checking frequency at will to move to any desired spot in the band. Has selector switch for use with the "Signal-Spotter" to permit either crystal or ECO control, with coupling cable. Key-click filter provides (clickless keying of oscillator stage. With 80 meter coils and tubes (1—6F6, 1—6L6, 1—5X4C, 1—VR150, 1—VR105). For 115 volts, 60 cycles, AC. Shipping weight, 35 lbs.

ADDITIONAL COILS

73-500. 160 Meters. 73-503. 20 Meters. 73-501. 80 Meters. 73-504. 10 Meters. 73-502. 40 Meters. NET, PER SET......\$2.69

Fig. B. "SIGNAL SPOTTER"

Fig. B. "SIGNAL SPOTTER"

An entirely new companion unit for use with the "Signal-Shifter." It provides a complete precision control system with instant frequency selection at your fingertips. Basically it is a crystal controlled oscillator operating from the voltage-regulated power supply of the "Signal-Shifter." Has provisions for four crystals with selector switch; ideal for use of "spot" or "band-edge" crystals; crystal-ECO switch is on Signal-Shifter. Independent, pre-tuned tank circuits; can be used with any type crystal, and any model Signal Shifter. Specify if Signal Spotter is for use with any "Signal Shifter" previous to 1941, and adapter parts and instructions will be supplied. With coils for 80 and 40 meters and tubes. Steel cabinet 5% 29xi1½". Sings. wt. 15 lbs. 88-130. Black finish.

88-131. Gray finish. NET.

ADDITIONAL COILS
73-510. 160 M. 73-512. 40 M.
73-511. 80 M. 73-513. 20 M. NET, EACH COIL. 91c Write for FREE 16-page Meissner Amateur Catalog. Ask for 37-020.

LEARN CODE EASILY WITH BUD CODE-PRACTICE AND TRAINING EQUIPMENT CODE-PRACTICE OSCILLATORS **EXTRA SPEAKERS**



MODEL CPO-120

88-103. Tube lat. NET.....

Built-in dynamic speaker provides clear, strong note for classroom use. Has switch for high or low pitch signal; key jack on front. Jack at rear for remote keying and connection for external speaker. 6" high, 4½ wide and 3½" deep. Finished in gray crackle enamel. For 1t0 volts AC or DC. Complete. AC or DC. Complete. Wt., 6 lbs. \$8.57

.....\$ 5.27

Special class-room model to handle up to 20 sets of headphones; also has built in mag-netic speaker which is auto-matically muted

matically muted when phones are plugged in. Hass variable volume and pitch controls so that adjustments may be made to suit individual requirements. Any number of keys may be connected in parallel for group practice. For 110 volts AC or DC. With tube. Size, 4½" x7½" x3½". Shpg. wt., 8 lbs. \$8.18



A convenient means for terminating key and earphone connections in group or classroom practice. Used at each operator's position and wired to master oscillator. Encludes two phone jacks. Bakelite case. 45% 27% x11%?. Wt., 1 lb. 73-405. NET 97c

These magnetic and dynamic speakers have been especially designed for use with the Bud oscillators. Several speakers can be connected in parallel and used with the accillence.

in oarallel and used with the oscillators. They are simply plugged into the "phones" jacks on the oscillators. Both types of speakers are housed in metal cabinets with sloping panels. Size: 4½ high, 4" wide, and 4" deep. Shpg. wt., 2 lbs.

MODEL CPS-121

Contains a 2" permanent magnet type dy-maxic speaker. It is intended primarily for use with 73-400 Model CPO-120 code-practice oscillator at left.
73-403. NET.

MODEL CPS-123

Uses a 3" magnetic-type speaker. For use with either the 73-401 or the 73-402 code-practice oscillators described at left. \$2.40

MODEL CPO-122



Will handle up to 20 pair of Will handle up to 20 pair of headphones or as many as five small magnetic speakers. Has variable pitch and volume controls. Ideal for code training tables with parallel keys and headphones. For 110 vofes ACDC. Overall size is 4½ high, 3½" wide and 3½" deep. Complete with tube. Shipping \$7.10

weight, 3 lbs.
73-401. NET.....

ALLIED IS AMATEUR RADIO HEA

ransmitting c

COTO LO-LOSS COILS



Designed for maximum efficiency in either high efficiency in either high or low power transmitters. Equipped with plugin base with banana plugs. "TL" and "TVL" handle up to 1 KW input; "BTL" a nd "BTVL" coils up to 300 watts input. Average wt., 2 lbs.

T.	SERIES	(WITH	1 FI	XED L	INK)
Stock No.	Туре	NET	Wire Size	No. Turns	Dia.
74-700 74-701 74-702	160TL 80TL 40TL	\$3.23 2.88 2.65	12 10 10	42 30 20	5" 4" 3" 3"
74-703 74-704	20TL 10TL	2.29	10	10	3" 23/4"
"TVL"	SERIES	(WITH	VARI	ABLE I	INK)
74-710	160TVL	\$3.82	12	42	5"

74-714	10TVL	2.82	10	6	23/4"
"BTL"	SERIES	(WITH	FD	ED LI	NK)
		\$2.70	14	36	4"
74-721	80BTL 40BTL	2.62	14	34	23/4"
74-723	20BTL	2.15	14	10	23/4"
74-724	10BTL	2.09	14	6	23/4"

74-711 80TVL 3.47 10 74-712 40TVL 3.23 10

"BTVL	' SERIES	(WITH	VARI	ABLE	LINK)
74-730	160BTVL	\$3.29	14	36	4"
74-731	80BTVL	3.20	14	34	23/4"
74-732	40BTVL	2.94	14	22	23/4"
74-733		2.73	14	10	23/4"
74-734	10BTVL	2.68	14	6	23/4"

STEATITE MOUNTING BASES

Bar and insulators of Steatite with end mount-ing holes. Jacks fit bar and plug mountings on Coto Inductors. Nickel-plated brass hardware.

No.	Туре			Jacks
74-740	CI-8TLM	\$1.18	TL, TVL BTL, BTVL	5



"PEE-WEE" COILS

Miniature coils, wound on Alsimag 196 forms. Have five prong bases for tube socket mountings. Handle up to 100 watts; ideal for low or medium power stages. Cap. values are approx. Av. shpg. wt., 1 lb.

Freq. Band	Center Tap	End Link	Center	Cap.
160	74-750	74-760	74-770	140
80	74-751	74-761	74-771	110
40		74-762		80
20		74-763		55
	74-754	74-764	74-774	30
NET EACH	COIL		\$1	.12

BUD MIDGET PLUG-IN COILS

Compact air-wound inductors for use in all stages with inputs of 50 watts or less. Glazed ceramic mounting base keeps coil away from chassis. For 5-prong socket. Center and adjustable link types are center tapped. End link type not tapped. Enauelled-copper windings. ½ lb.



Freq. Band	Center	End Link	Adj. Link	NET
80	73-015 73-014	73-024	73-033	1
20	73-013 73-012	73-022	73-031	1
	73-011			.79



JOHNSON HI-Q PLUG-IN INDUCTORS

Mounts in 5-contact tube socket. Rated at 100 W. Ideal for oscillator, low-power amp, stages, etc. Ribbed ceramic forms. Holes for internally mounting Johnson "J" condenser. With center tap and link coupling, or with link at bottom. 6 oz.

Center Link			End Link	
No.	EACH	Band	No.	EACH
73-300 73-301 73-302 73-303 73-304	97.	10 20 40 80 160	73-310 73-311 73-312 73-313 73-314	91

BARKER-WILLIAMSON PRODUCTS

"BABY" 25-WATT AIR INDUCTORS

Midget-size plug-in coils mounted on Alsimag 196 5-prong bases. Micrometer spaced with low-loss acetate spacer strips. Only 1½" long and 1½" in diameter. For use where space is limited. Conservatively rated at 25 W. *Capacity to tune to low frequency end of band. Wt., 1 lb.

Band	Link	Link	Mmfd.	EACH
160	75-300	75-310	100	INCOME.
80	75-301	75-311	48	
40	75-302	75-312	35	76
20	75-303	75-313	28	75c
10	75-304	75-314	28	TENEDAL I
1151018	75-W	ATT "J	UNIORS'	100

Band	Link	Link	Adj. Link	EACH
160	75-320	75-330	75-340	Marine Marines
80	75-321	75-331	75-341	
		75-332		\$1.00
		75-333		1.00
10	75-324	75-334	75-344	

"BABY" 5-BAND COIL TURRETS



Complete five-band coil and switch turret assemblies, designed for use in low power transmitter stages. Will handle up to 35 watts. Consist of five coils mounted on bandswitch and equipped with threaded shank for single-hole panel mounting. Operate on 160, 80, 40, 20, and 10 meters. All coils tune with single section 100 mmf. condenser, or split stator condenser of 200 mmf. per section. Avge. shpg. wt., 3 lbs. 75-350. Type BTM. Untapped, without link coupling, for capacity coupled stages. 75-351. Type BTCT. These coils are center-tapped and do not have link.

75-352. Type BTEL. Untapped with end link for interstage coupling.
75-353. Type BTCL. Center-tapped with center link for balanced stages.

8.50

MODEL 2A BANDSWITCH



A small, compact coil and bandswitch assembly for use in low power exciter stages. Operates on 160, 80, 40, 20 and 10 meters. Designed for use with 6L6, 802, 807, RK-39, T-21, and similar tubes in capacity coupled stages. Ideal for exciter units or portable rigs. Can be used in stages where input does not exceed 35 watts. Tune with 100 mmfd. condenser. Shpg.wt., 2 lbs. \$3.25

AIR INDUCTORS

Accurately designed and spaced. Carefully assembled to provide maximum plate efficiency. Rigidly built for maximum strength. Wound with enamel covered wire. Equipped for plug-in with banana plugs and Iso-lantite bottom bar. *Capacity to resonate at low frequency end of band. Av. shpg. wt., 2 lbs.



"BL" 100 WATT-FIXED LINK

Stock No.	Туре	*Cap. Mmf.		Dia.	NET
75-365	160BL	110	18	21/5"	\$2.50
75-366	80BL	52	16	21/3"	2.30
75-367	40BL	43	14	2"	2.05
75-368	20BL	40	14	2"	1.80
75-369	10BL	28	12	2"	1.75
75-361.	Jack B	ar with	i jack	s for	"BL"
series coils.	NET.				85c
"BXL		WATT-			INK

75-410 75-411 75-412 75-413 75-414 160BXL 80BXL 40BXL 20BXL 10BXL 14 | 4" 14 | 3" 14 | 21/2" 14 | 2" 12 | 2" 54 51 45 35 2.35 2.10 2.05 with jacks for \$1.15

FIXED LINK 115 60 38 30 25 12 | 5" 12 | 3½" 12 | 2½" 12 | 2½" 12 | 2½" 75-362. Jack Bar with jacks for series coils. NET. S1.25 "BVL" 100 WATT-

18 | 2½" \$2.10 16 | 2½" 1.90 14 | 2½" 1.65 14 | 2½" 1.45 8 | 2½" 1.40 8 | 2½" 1.35 75-385 75-386 75-387 75-388 75-395 swinging link -SWINGING LINK

75-400 160TVL 75-401 80TVL 75-402 40TVL 75-403 20TVL 75-404 10TVL 65 55 34 28 22 75-396. TVL Coil mounting assembly with swinging link. NET... SVINGING LINK
75-420 160TVH 90 16 21/4
75-421 80TVH 50 14 21/2
75-423 20TVH 32 12 21/2
75-424 10TVH 22 12 21/2
75-424 10TVH 22 13 21/2
75-425 20TVH 22 13 21/2
75-426 20TVH 22 13 21/2
75-427 20TVH 22 13 21/2
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75-430 20TVH 22 21/2

75-430. TVH Coil mounting assembly with swinging link. NET......\$3.75

Send for Complete Barker-Williamson Literature. 37-062. FREE on Request.

CARDWELL CONDENSERS



TRIM-AIR MIDGETS

For all uses where high-quality midgets are required. Rigid, Isolantite-mounted assembly assures greatest stability and minimum losses. Equipped for universal mounting. For use as midget tuning condenser or low power neutralization. Easily ganged. Excellent for UHF work. Wt., 12 oz.

Stock No.	Mfrs. Type	Cap.	Air Gap	NET
75-010	ZR-10AS	10	.030"	\$0.84
75-011	ZR-15AS	15	.030"	.84
75-012		25	.030"	.93
	ZR-35AS	35	.030"	.99
	ZR-50AS	50	.030"	1.05
75-015	ZU-75AS	75	.020"	1.14
	ZU-100AS	100	.020	1.17
75-017	ZU-140AS*	140	.020"	2.10
75-020	ZS-4SS	4	.140"	1.23
75-021		15	.070	1.02
75-022		5	.061	.84
75-023	ZT-10AS	11	.070	.96
75-024		30	.070"	1.23
75-025	ZS-7SS	7	.140	1.38

*Double-bearing; two end plates. †2 segment stator for 5 meter circuits.

75-030. Mounting Bracket. NET..... 6c 75-031. Mounting Posts, per pair. NET. 8c

DUAL TRIM-AIRS

For use in low and medium power transmitter stages, receivers, portable equipment, etc. Small and compact, requiring minimum space for mounting. All units with insulated coupling particularly suited for use as neutralizing condensers for push-pull RF stages. Use mounting brackets, 75-030, at lower left. Wt., 1 lb.

Stock No.	Cardwell Type No.	Mmf. per Section	Air	NET
75-050	EU-75AD	75	.020	\$2.19
	EU-100AD	100	.020"	2.25
	EU-140AD	140	.020*	3.96
	ER-10AD	10	.030"	1.71
	ER-15AD	15	.030"	1.71
	ER-25AD	25	.030	1.80
	ER-35AD	35	.030	1.92
	ER-50AD	50	.030"	2.04
	ET-15AD	15	.070	1.98
	ET-15ADI	Insul. Coup.	.070	2.31
	ET-30AD	30	.070	2.37
	ET-30ADI	Insul. Coup.		2.70
	ES-4SD	4	.140	2.37
	ES-4SDI	Insul. Coup.		2.70
75-082	ES-7SDI	Insul. Coup.	.140	2.97

WE CAN SUPPLY ALL CARDWELL UNITS Send for Complete Cardwell Literature. 37-065. Cardwell Catalog—Sent FREE

149

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RELAYS

VOLTAGE DIVIDERS

METERS

HIGH QUALITY RELAYS FOR EVERY PURPOSE POTTER & BRUMFIELD RELAYS



Ruggedly built power relays for bandling any switching requirement where heavy current is present at low frequencies. Will safely break 20 amps. in non-inductive circuit. Oversize energizing coil provides powerful pull for fast, positive action. With heavy steel mounting bracket. For 110 V., 60 cy. 23/8x2/6x2". Mtg. ctrs. 17/6". 2 lbs.

V., 00 Cy. 278727872 . Witg. Ctis. 178 . 2 105.	
75-600. Type PRA-1. SPST. \$2.2: Normally open. NET	-
Normally open. NET Z. Z.	9
75-601, Type PRA-2, SPST. CO O	-
75-601. Type PRA-2. SPST. \$2.2.)
75-602. Type PRA-3. SPDT. \$2.50	J
75-603, Type PRA4 DPST. CA A	-
75-603. Type PRA-4. DPST. \$3.20 Normally open. NET	J
Market Company of the	



MIDGET RELAYS

Efficient relays for use in small spaces. Points rated 8 A. AC and 4 A. DC. 27/kx11/kx 11/kr. Shipping wt., 1/2 lbs.

No.	Model	Туре	Coil Voltage	EA.
75-610	MRA-1	SPDT	6 V. AC 2W.	\$1.40
75-611	MRA-2	SPST*	6 V. AC 2W.	1.35
75-612	MRA-	DPDT	6 V. AC 2W.	2.00
75-613	MRA-5	DPST*	6 V. AC 2W.	1.95
75-614	MRA-1	SPDT	110 V. AC 2W.	1.40
75-615	MRA-2	SPST*	110 V. AC 2W.	1.35
75-616	MRA-4	DPDT	110 V. AC 2W.	2.00
75-617	MRA-5	DPST*	110 V. AC 2W.	1.95
75-618	MRD-1	SPDT	6 V. DC 1.5W.	1.40
75-619	MRD-2	SPST*	6 V. DC 1.5W.	1,35



PLATE CIRCUIT RELAYS

An excellent relay for gen-

eral plate circuit uses. The ½6' silver contacts are rated at 6 amps. Size: 2½x1½x1½½'. Mounting centers, 2½''. Shpg. wt., 2 lbs. **75-625.** Type MRS-291. SPDT. 2500 ohm coil. **NET**.....

75-626. Type MRS-292. SPDT. \$ 1.05



ANTENNA RELAY

The AR-1 is designed for antenna change-over purposes. Polystyrene insulation assures low loss operation. Contacts are ¼, silver. Coil is impregnated. For 110 V., 60 cycles. Handles ½ KW. 2½s×4x1½". Wt., 2 lbs.

75-630. Type AR-I. DPDT.



KEYING RELAY

Polystyrene insulated keying or break-in relay for use in primary or secondary circuits. Double break feature assures positive full contact without chatter. Size: 2½x2½x2½x2½x. Wt., 2 lbs.

75-631. Type AR-2. SPST. For 110 V. AC.

75-632. Type AR-2. SPST. \$2.95 For 6 V. AC. NET EACH......

We Can Supply All Potter & Brumfleld Products. 37-075. Relay Catalog—Sent FREE

ALLIED TYPE H RELAYS



150

A new line of relays designed to meet the rigid requirements of Industrial, Amateur, Aircraft, Mobile and Marine applications. DPDT type with fine silver contacts. Armatures are of the semi-balanced type; coils are varnish impregnated. Mounting bracket has two tapped holes. 11/6" apart. "Alsimag" cross bars and front plate insure low loss, non-warping insulation. 15/6x31/2x25/6". Wt., 11/2 lbs.

Stock No. Coil Voltage
75-635. 6 V. DC. NET\$4.56
75-636. 6 V. AC, 60 cycles.
75-637. 110 V. AC., 60 cycles. \$5.44
For additional Allied relays - see page 158.

POPULAR GUARDIAN RELAYS

Model B-100. De-signed specifically for break-in operation of

break-in operation of Amateur transmitters. DPDT type. Will provide rapid switching from receiving to transmitting. Heavy magnets and springs for clean-speed break. Silver contacts. Low current drain. Construction. For 110 volt AC. Size, 2½, Shpg. wt., 1 lb. 75-700. NET. \$5.06

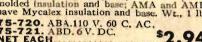
75-701. Model K100. SPST type. Pure silver contacts break clean. Operates from 5 to 16 V. AC or 1½ to 4 V. DC source. Size, 2½x2½x1½". Shpg. wt., 1 lb. \$3.70

75-702. Model R100. For RF circuits up to 1 KW and 28 MC. Alsimag 196 insulated. SPST type. For 110 V. 60 cycles. \$1.85
75-703. Model R-100-C. Same as R-100 above, but SPDT type. Size, 2½x x \$2.82
1x2½'. Shpg. wt., 10b. NET.
75-704. Model X-100. Adjustable type overload relay. Can be set to open primary circuit at any current load from 150 to 650 ma. Panel type push-button reset. Size, \$6.76
4x2½x3½'. Wt., 1 lb. NET.
75-705. Model A-100. Antenna relays insulated with Alsimag 196. Also for heavy duty primary keying or control. Heavy silver contacts handle up to 1 KW in RF circuits up to 28 MC. DPDT type. For 110 V. AC. Size, 2½x2x2½'. Wt., 1 lb.
84.03
75-706. Model A-100-C. Same as A-100

as A-100

STACO ANTENNA RELAYS

RF type antenna change-over relays for use in any antenna system. Will handle 4 Amps. through silver contacts. New floating armature with ball-bearing pivots. All DPDT types. 3% x 3% x 2%6° ABA and ABD have high-frequency molded insulation and base; AMA and AMD have Mycalex insulation and base. Wt., 1 lb. 75-720. ABA.110 V. 60 C. AC. 75-721. ABD. 6 V. DC. \$2.94



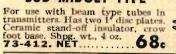
75-722. AMA. 110 V. 60 C. AC. 75-723. AMD. 6 V. DC. NET EACH...

NEUTRALIZING CONDENSERS BUD FEED-THRU TYPE

For neutralizing tubes which have grid lead terminating at the base. Provides a more compact installa-tion. Knurled nut permits locking for permanent settings. Single hole mounting. Shpg. wt., 6 oz.



BUD MIDGET TYPE



CENTRALAB SWITCHES

New transmitter switches with Isolantite insulation. Bar-knob. All have four positions, 90° apart, and adjustable stop. For any circuit up to 100 watts at potentials to 1000 V. DC. Shpg. wt., 1 lb.



Stock No. | Gangs | Poles | Positions | NET \$1.00 1.59 2.29 2.88 3.59

34-000 34-001 34-002 34-003 34-004 34-010. Special Dial Plate. Type K Marked 1 to 4. For above switches. NET.

346

THERMO-COUPLE TYPE RF AMMETERS

For RF use. Especially designed for high frequency operation and accurate to 2%. Model 341 has internal couple; Model 346 has external thermo-couple. Model 346 has external thermo-couple. Model 346 case is 31/4x 21½, mounts in 2½, hole. Model 341 is 3½, in diam., mounts in 2½, hole. Wt., 2 lbs.

Amps.	341	EACH	346	EACH
0-1 0-1.5 0-2.5 0-5	66-000 66-001 66-002 66-003	\$4.86	66-010 66-011 66-012 66-013	\$7.18

NEW TRIPLETT MODEL 1696A MODULATION MONITOR



Helps comply with FCC regs. and indicates greatest possible efficiency. Uses a carrier level meter and a modulation meter calibrated from 40% to 120%. Has neon peak indicator. Couples inductively to the antenna circuit. For 110 V. 60 cycle. 14½"x7½"x4½". Shpg. wt., 21 lbs.

84-500. Table Model in \$39.00 Metal Case. CASH Terms \$7.80 down, \$5.60 mo. for 6 mos.

OHMITE VOLTAGE DIVIDERS

Ideal for transmit-

Ideal for transmitter power supplies. Have sliding contacts. 50 watt size is 4" long; 100 watt size is 61/2" long; Hollow ceramic core prevents overheating. Supplied with one slider and mounting brackets. Av. shpg. wt., 1 lb.

50 WATTS

250	4471	
=00		
500	316	
750	258	
1000	224	
1500	183	0.0
2000		88.
2500		7 7 7 7 7
5000		
10000		
15000		AW
20000		97.
25000		
30000		
40000		\$1.12
50000		01.12
100000	12	1.29
EXTRA	SLIDE	8
	1000 1500 2000 2500 5000 10000 25000 30000 40000 50000 100000 EXTRA	1000 224 1500 183 2000 158 2500 142 5000 100 10000 57 20000 48 25000 43 30000 41 40000 35 50000 23 100000 12 EXTRA SLIDER

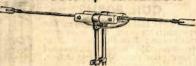
100 WATTS						
75-830	1000	3161	A1 00			
75-831	5000	141	\$1.29			
75-832	10000	100)				
75-833	15000	81				
75-834	20000	701	\$1.47			
75-835	25000	56	1.77			
75-836	30000	511				
75-837	40000	38	1.62			
75-838	50000	28				
75-839	75000	161				
75-840	100000	147	1.76			
75-881	EXTRA		CR			

200 WATTS					
75-851	5000	200}	ST OA		
75-852	10000	141	\$1.94		
75-853	15000	115			
75-854	20000	100			
75-855	25000	89			
75-856	30000	81			
75-857	40000	63	0.01		
75-858	50000	49	2.26		
75-859	75000	30			
75-860	100000	20			
75-882	EXTRA		CR 9c		

QUALITY EQUIPMENT, QUICK SHIPMENT, PERSONAL SERVICE

ansmittin

JOHNSON "O" ANTENNAS



Provide a considerable increase in radiated power over conventional doublet or Zepp antennas. Accurate matching of line and antenna impedance is provided by use of quarter-wave matching section of light-weight tubing. Can be fed by open wire system up to several hundred feet. Includes hard-drawn antenna wire, center assembly, 2 pieces ½" tubing for "Q" bars, "Q" section spacers, and insulators.

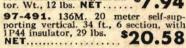
88-031.100	10 Meter Kit. NET \$4.62
88-032.200	20 Meter Kit. NET 7.20
88-033.400.	40 Meter Kit. NET 13.29
88-034.800.	80 Meter Kit. NET 24.70
88-030. 5Q.	5 Meter Kit. NET 4.12

PREMAX ANTENNAS

Constructed of high-tensile steel tubing, antenna telescopes for accurate adjust-ment to transmitting frequencies. Heav-ily-plated to resist weathering. Hi-Q mounts without insulators to chim-ney or roof parapet. Others are self-supporting on special base design in-sulators. Easily installed.

88-040. Hi-Q Vertical Antenna for 10 meters. Wt., 20 lbs. \$11.47

88-041. Chimney Bracket for Hi-Q antenna. Wt., 14 lbs. NET\$4.12



AMPHENOL CO-AXIAL CABLE



Surge impedance 72 ohms, matches a half-wave antenna; 16 mmfd. capacity per ft. Constructed of polystyrene beads on No. 12 solid copper wire, covered with woven copper shield. Bends on 1° radius without baring center conductor. No. 72-12 has double-cotton impregnated outer braid; No. 72-12R has .050° rubber wall over two impregnated cotton braids.

cotton braids.
71-785. No. 72-12. Per Foot. NET... 29c
71-786. No. 72-12R. Per Foot. NET... 53c

CO-AXIAL CABLE CONNECTORS



STRAIN INSULATORS



White glaze low absorption porce-lain. Type 32 is for use in light guy wires or receiving antennas. Type 38 jis especially designed for RF use.

Stock No. Type Fig. 73-100. 32 A. 73-101. 34 Lgth. EACH 10 for 11/2" 5c 45c 11/2" 9c 85c



FEEDER SPREADERS

For use in all types of feeder lines, either transposed or non-transposed.

Made of low absorption white glazed porcelain.

Type 31 (Fig. B) prevents twisting. For 2" line spacing. Others are 1/4"x1/2" bars.

Stock No.	Турв	Fig.	Length	NET
73-110. 73-111.	132	B	2*	10c
73-112.	1.34	A	4"	12c
73-113.	136	A	6"	15c

FAMOUS E. F. JOHNSON QUALITY PRODUCTS



STAND-OFF INSULATORS

Made of a superior grade of low absorption high glaze porcelain. Heavy breakage-resistant bases. Nickel-plated brass hardware. Types 65, 66 and 67 have cadmium steel bases. 'J' indicates jack type. *Square base type. Wt., 1 lb.

Stock No.	Mfrs. Type	Fig.	Body Hgt.	Hard- ware	NET
73-120	20	A	19/16"	10-32	90
73-121	20J	B	1%6"	74J	11 c
73-122	22	A	1"	8-32	60
73-123	22J	A B A B A C*	1'	74J	8c
73-124	24	A	41/2	6-32	5c
73-125	60	C*	41/2"	1/4-20	38 c
73-126	62	C*	23/4"	1/4-20	24c
73-127	65	C	13/8"	10-32	15c
73-128	65J	C	13/8"	74J	180
73-129	66	D	23/4"	1/4-20	24c
73-130	66J	, , , , , , , , , , , , , ,	23/4"	76J	32c
73-131	67	D	41/2"	1/4-20	35 c
73-132	671	D	41/2"	76]	47 c



PORCELAIN CONES

No.	Type	Fig.	Hgt.	Ihread	NET
73-140	600	A	5/8"	6-32	8c
73-141	601	A	1.	8-32	10c
73-142	601J	В	1"	743	13c
73-143	602	A	11/2"	8-32	12 c
73-144	602J	В	11/2:	741	15c
73-145	603	AB	2'	10-32	15c
73-146	603J	В	3.	741	18c
73-147	604	A	3"	10-32	21c
73-148	604]	В	3.	761	29c



LEAD-IN BUSHINGS

Have many applications in transmitter and antenna installations. Type 55 is ultra-steatite, others are white glaze porcelain. Types 50, 51, 52 and 55 have nickeled brass rod and nuts.

No.	Type	Fig.	Hgt.	Dia.	Hole	NET
73-160	50	D	1/2"	3/4"	8/4"	12c
73-161		D	13/16"	11/4"	7/8"	21c
73-162	52	D	11/8"	13/4"	11/4"	29c
73-163		В	13/4"	21/2"	17/8"	18c
73-164		A	4"	31/2"	23/4"	41c
73-165	55	C	1/4"	3/4"	1/2"	18c

THREADED BRASS ROD

For use with standoff insulators, through-panel and lead-in bushings. Nickeled; thread ¼-20. 73-175. Type 240. 8" long. NET 21c 73-176. Type 241. 10" long. NET 3c 73-177. Type 242. 15" long. NET 3cc 73-177.



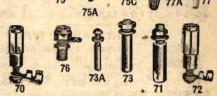
JOHNSON SOCKETS

73-190. UX BASE. For use with 4 prong, UX base tubes. Porce-lain insulation; heavy Spring contacts. 50c Wt., 1 lb. NET. 50c

73-191. 50 Watt socket. Porcelain base with licavy dual phosphor bronze contact springs. Cadmium plated. 73c

WE CAN SUPPLY ALL JOHNSON PRODUCTS Send for Complete Johnson literature. 37-011. Johnson Catalog—Sent FREE

JOHNSON JACKS & PLUGS



A complete line of highest quality jacks and plugs. Banana type plugs have nickel-silver springs; spring sleeve type jacks are nickeled brass with phosphor-bronze springs. 77A and 73A plugs have long screw for mounting on ceramic coil forms. Av. shpg. wt., 8 oz.

Stock No.	Type	Fits	Length	NET
73-200	74	75,75A,75C	5/8"	4c
73-201	75	74	3/4"	41/2 C
73-202	75A	74	3/4"	41/2 C
73-203	75C	74	1.	5c
73-204	76	77, 77A	13/8"	15c
73-205	77	76	11/8"	12c
73-206	77A	76	11/8"	15c
73-207	70	71	11/2"	21c
73-208	71	70	11/8	81/2 C
73-209	72	73, 73A	11/8"	15c
73-210	73	72	1"	41/2 C
73-211	73A	72	1 1"	4 1/2 C



THRU-PANEL INSULATORS

Have high mechanical strength with long leak-age paths. Made of white glaze porcelain. Flat mounting surface; cushion washers. Wt., 1 lb.

Stock No.	Mfr's Type	Fig.	Top Hgt.	Panel Hole	Hard- ware	NET
73-225	40	A	11/4"	1/2:	10-32	18c
73-226	40]	В	11/4"	1/2"	74J	21 c
73-227	42	A	7/8"	7/16"	10-32	14c
73-228	421	AB	7/8"	7/16"	74.1	17c
73-229	44	A	5/8"	5/16"	6-32	11c
73-230	45	AC	13/8	9/16"	10-32	24c
73-231	453	CC	13/8	9/16"	741	26c
73-232	4576T	C	13/2"	9/16"	76A-J	32c
73-233	46	A	23/4	3/4"	1/4-20	38c
73-234	461	A	23/4"	3/4"	761	47c
73-235	47	A	41/2"	11/16	1/4-20	62c
73-236	1 47J	A	41/2"	11/16"	76J	73c

SHAFT COUPLINGS

Flexible insulated shaft couplings Flexible insulated shart couplings with phosphor-bronze springs and absolute freedom from backlash. Insulated with ultra-steatite. Maximum airgap to insure protection from flashover. Wt., 1 lb.



Stock No.	Туре	Shaft	Diam.	NET
73-260	250	1/4×1/4"	13/8"	47c
73-261	251A	1/4×1/4"	21/4"	82c
73-262		1/4 x 3/8"	21/4"	82c
73-263	251	3/8 x 3/8"	21/4"	82c



PANEL BEARING & EXTENSION

For use with rigid or flexible shaft couplings. Fit panels up to ¾ thick. *Type 255 is panel bearing only. Of cadmium-plated brass.

Stock No. 73-275 73-276 73-277 Type Shaft Length 255 * 256 3" 257 6".

FLEXIBLE SHAFTS

Non-rusting phosphor-bronze flexible shafts with ¼" hubs. Permit control of condensers, etc., when mounted at angles up to 90 degrees. Hubs will not loosen.

73-290. Type 253. 3" length. NET. 21c 73-291. Type 254. 6" length. NET. 29c

ransmitting Equipment

KNIGHT RF CHOKES



MIDGET TYPE

Very popular with the Amateur and

character and Experimenter. Inductance, 2½ mh.; DC resistance 16 in four sections on ceramic core. 3 oz. 60-800. 10 FOR \$1.08. EACH.... 12c



HEAVY-DUTY TYPES

60-805. 2½ Mh. at 1000 Ma. Five section universal windings on ceramic core. Res., 12 ohms. Shipping weight, 1 lb. NET... 95c 60-807. 2.8 Mh. at 1000 Ma. Five universal windings on ceramic core. Res., 12 ohms. Shipping weight, 1 lb. NET... 95c 60-807. 2.8 Mh. at 1000 Ma. Five tapered size universal-wound sections. Ceramic core. Res., 5 ohms. Shpg. wt., 1 lb. \$1.21 GO-808. 5.3 Mh. at 500 Ma. Same as 60-807.

60-808. 5.3 Mh. at 500 Ma. Same as 60-807 but resistance is 12.5 ohms. 1 lb. \$1.08

TRANSMITTING CONNECTORS



For all high voltage or high RF current circuits, plug-in type transmitter coils, etc.

73-421. PLUG. Fits above jack. "4" diameter with 10-32 nut; has hole in end. Fits "4" copper tubing. Wt., 6 oz.

HIGH VOLTAGE HOOKUP WIRE

The finest high-voltage hookup wire we can buy! Tinned stranded-conductor covered with live rubber and cotton, with an overall covering of lacquered braid. Rated at 5000 volts. Recommended for all HV uses. Wt., 6 oz.

			NET 25c
			NET 29c
			NET : 38c
47-731.	No. 12	. 25 foot coil	NET 55c

SOLID PUSHBACK WIRE

Solid tinned-conductor with double push-back insulation; impregnated. Ideal for all trans-mitter wiring. Rated at 2500 volts. Wt., 8 oz.

47-751.						
47-761.	No.	14.	25	foot coil.	NET	. 290
47-771.	No.	12.	25	foot coil.	NET	.490



NAVY KEY KNOBS

Molded of black insuloid. For easy keying. 1% high; 15% dia. of lower skirt. 8-32 screw. Relieves finger fatigue. Shpg. wt., 40z. 15c

LEAD-IN INSULATORS



For use with transmitter of receiver lead-in or feed systems. Vitrified glazed porcelain cones on threaded rod. 1½ lbs.

51-216. 15' rod with cone insulators 59c and water-tight washers. NET.......



LISTENING

For checking quality of signal, phone carrier, or for frequency drift check. (Not a receiver.) Has a vernier dial and variable condenser for frequency selection. Standard jack for headphone plug. Supplied wired and complete with coils for 20, 40 and 80 meter Amateur bands (160 and 10 meter coils not available). Less tubes and batteries. Steel case, 5° x 7° x 10° finished in black crackle enamel. Requires 1—30 tube. 1—1½ V. "C" battery and 1—22½ V. "B" battery. Wt., 8 lbs. \$4.85

SPECIAL ALLIED VALUES IN **POWER TRANSFORMERS**

6.3 VOLT TYPE

6.3 VOLT TYPE
Fully enclosed case type in upright mounting style; with flexible insulated wire leads, A unit with dozens of applications for Amateurs and Experimenters. Black lacquer finish. Ratings: Primary, 110 V. 60 cycles. Secondaries: 600-600 V. at 200 ma; 6.3 V. at 4 amps.; 5. V. at 3 amps. Mtg. area 37½ x 43½". Wt., 13 lbs. \$3.45



7.5 VOLT TYPE

Same style case as above. Primary, 115 V., 50-60 cycles. Secondaries; 1200 V. CT at 200 ma.; 7.5 V. at 3 A—CT; 5 V. at 3 A—CT; 2.5 V. at 10 A—CT. Mtg. ctrs., 3x3½°. Shipping weight, 13 lbs. \$3.45

EO-1 TYPE CABLE

Will handle power output up to 2000 watts, 72 ohm surge impedance. Two No. 12 solid copper conductors, cellulose and rubber-insulated, with overall weatherproofed braid.

Overen wearing	proofed by	CLACK.	-
47-500, Per	foot. NE	T	.00
47-501, 100	foot roll.	NET\$3	.91

COPPERWELD SOLID ENAMELED ANTENNA WIRE

Steel core with welded copper covering. High conductivity; no corrosion. Available in continuous lengths up to 1500 feet, on order.

			200 Ft.	
14	74-601	\$0.87	74-610	\$1.57
10	74-603	1:94	74-610 74-611 74-612	3:50

HARD-DRAWN SOLID ENAMELED WIRE

	100 Ft.		200 Ft.	
14	47-011	57c	47-021	\$1.03
12	47-012	82c	47-022	
10	47-013	\$1.25	47-023	

SOLID TINNED COPPER WIRE

	The state of			
	25 Ft.			NET
14	47-521	16c	47-522 47-532 47-542	29c
12	47-531	22c	47-532	41c
10	47-541	39c	47-542	75c

FEEDER **SPREADERS**



White porcelain spreaders for open wire transmission lines. ¼" wide by ¼" thick. Use 6" spreaders with No. 12 wire for 600 ohm lines. Shpg. wt.—3", 4 oz.; 6", 6 oz.

Paripo.		THE RESIDENCE OF THE PARTY OF T	-
F4 330	2/	NET EACH	
51-220.	o" spacing.	NEI EACH	
	CH amaniana	NET FACE	1 7
21-771	o spacing.	NET EACH	IC

ANTENNA INSULATORS

Made of strong white porcelain. Low capacity and long leakage path. All 1' diameter. 22c 88-200. 7' long. Wt., 1/2 lb. EACH. 22c 88-201. 12" long. 1 lb. EACH. 88-202. 20" long. 11/2 lbs. EACH....39c

CARDWELL COAXIAL BEADS

For constructing ¾" copper or brass concentric line. Alsimag 196 beads .295" diam. for No. 12 wire. Enough for 50 feet of line. Wt., 8 oz. 75-000. Package of 250,

MALLORY PANEL BUSHING

For use with shafting, to mount condensers, etc., away from panel. Fits 1/4" shaft; panels up to 1/16".



BUTTON-TYPE FEED-THRU BUSHING

TRANSMITTING COIL FORMS

An ideal inductance form for An Ideal inductance form for transmitters and for numerous other uses. Bakelite body. 2½" diameter, 3½" long, with molded finger grip rim. Winding space, 3½". Ribs extending ½" insure low-loss air-core winding. Grooved forms are threaded 12 turns per inch. Prong spacings fit standard sockets. Shpg. wt., 6 oz. each.



Plain Forms
1. Prongs NET
150 4 38c
151 5 41c
152 6 46c Grooved Forms
No. Prongs NET
73-455 4 54
73-456 5 57
73-457 6 59 No. Prongs 73-450 4 73-451 5 73-452 6

KNIGHT CERAMIC COIL FORMS

Plug-in coil forms of low-loss amic for use in receivers or low-power stages of transmitters. Rib-bed type. Side slot and holes for easy winding. 13/4" diameter. 1 lb.

7	3-460.	4	Prong.	NET	38c
7	3-461.	5	Prong.	NET	41c
7	3-462.	6	Prong.	NET	43c



COIL FORMS

Low-loss coil forms of Insulex. Particularly adapted for high-frequency operation. Threaded for No. 10 wire with plenty of holes for wire and supports. 20 and 40 meter coil forms 2½"x5½". 80 and 160 meter coil forms 4"x6½". Average shipping weight, 2 lbs.



FOR 20 AND 40 METERS

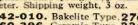
73-470.	Less supporting With supporting	legs\$	0.76
1 3-41 T.	with supporting	icgo	1.00

FOR 80 AND 160 METERS

73-475. Less supporting legs. . . . \$1.35 73-476. With supporting legs. . . . 1.48

FLEXIBLE SHAFT COUPLINGS

For use with any condenser having 1/4" shaft. Flexible phosphor bronze springs, 1 1/4" diamphor bronze springs. 11/4" dia eter. Shipping weight, 3 oz.





42-010. Bakelite Type. 27c 60-396. Ceramic Type. 33c

PYREX INSULATORS

Strong, genuine Pyrex glass insulators for all types of antenna installations. Extremely low surface conductivity.

51-200. 3%" long. Wt., 8 oz. 21c 51-201. 71/2" long. Wt., 11/2 79c



BEE-HIVE INSULATOR

For supporting coils, condensers, high voltage leads, etc. Made of white glazed porcelain, 2" diam.; 2\%" high. Extra-strong; fully weatherproofed for outdoor use. Shpg. wt., 8 oz.

51-205. 10 for 99c. 11c



KNIGHT STAND-OFF **INSULATORS**

High-grade glazed porcelain con-struction with deep corrugations. Cadmium-plated steel hardware.

51-206. 5¼" high, with base 2½' square. Wt., 1½ lbs. 37c S1-207. 3½" high, with base 1½' square. Wt., ½ lb. 18c NET EACH. 18c



INSULATED GRID CAPS

Plated brass clip with insulated cover. 11-inch rubber-covered lead. Shpg. wt., 4 oz.
42-020. Standard size for receiving tubes. Black insulation. NET EACH......8c

42-030. Large size for transmit-

ting tubes such as 866, etc. 16c



OUR PRICES ARE ALWAYS LOWER-WE WILL NOT BE UNDERSOLD

CABINETS - RACKS - PAN



DELUXE STEEL CABINETS

Fabricated from 1/6" cold-rolled steel with rounded front corners and louvre sides. Uniformly finished in ripple enamel with red-striped chrome trim. Recessed front is drilled for all standard 19" panels with Amateur or Western Electric notching. Cabinets are 22" wide, 161/2" deep. Rear door has two flush snapratches. Shipped knockeddown with hardware for easy assembly. Shpg. wts.. 98-800, 100 lbs.; 98-001, 150 lbs.; 98-802, 175 lbs.

Black	Grey	Panel	Overall	NET
No.	No.	Space	Height	
98-800	98-805	363/4"	42"	\$25.80
98-801	98-806	611/4"	66½"	33.60
98-802	98-807	77"	82¼"	40.50

DELUXE TABLE CABINETS

Of heavy steel with recessed hinged-top covers. Cabinets marked* have in addition a hinged door at rear. Drilled for any 19" rack panel. Completely assembled. Inside depth is 15"; overall width, 21". Overall height 1½" more than panel space. Black or grey crackle-finish.

Black No.	Grey No.	Panel Space	Shpg. Wt.	NET EACH
98-810	98-850	83/4"	24 lbs.	\$ 7.95
98-811	98-851 98-852	121/4"	29 lbs. 38 lbs.	10.80
98-813*	98-853*	171/2"	44 lbs.	12.75
	98-854* 98-855*		69 lbs. 73 lbs.	14.25

RELAY-RACK PANELS

For cabinets and racks on this page, and all others having standard Amateur spacings in 1½" multiples. Uniform finish and slotting. All steel construction, ½" thick, 19" wide.

Black No.	Grey No.	Size	Shpg. Wt.	NET
86-100	86-130	13/4"	2 lbs.	\$0.48
86-101	86-131	31/2"	5 lbs	.54
86-102	86-132	5 1/4"	7 1bs.	.69
86-103	86-133	7"	8 lbs.	.75
86-104	86-134	83/4"	9 lbs.	.90
86-105	86-135	101/2"	10 lbs.	1.11
86-106	86-136	121/4"	12 lbs.	1.32
86-107	86-137	14"	13 lbs.	1.50
86-108	86-138	153/4"	14 lbs.	1.68
86-109	86-133	171/2"	15 lbs.	1.89
86-110	86-140	191/4"	16 lbs.	2.01
86-111	86-141	21"	17 lbs.	2.28

RELAY-RACK BRACKETS

Afford easy mounting of chassis bases and sub-panels to relay-rack panels. Made of heavy sheet-steel with universal mounting holes. All brackets 7 high. Black ripple-enamel finish. Average shipping weight per pair, 3 lbs.

86-150. 8"	Base.	PER	PAI	R	\$0.57
86-151. 11"	Base.	PER	PAI	R	.84
86-152.13"	Base.	PER	PAI	R	1.02

RELAY-RACK METER PANELS

Heavy steel, ripple-enameled meter panels. Slotted to fit standard relay racks. 51/4*x19*. Thickness of panel 1/8*. Shpg. wt., 4 lbs.

Black No.	Grey No.	No. of Holes	Meter Size	NET
86-160 86-161	86-170 86-171	3 5	2"	\$1.05
86-162 86-163	86-172 86-173	3 5	3"	1.05

ROLLER TRUCKS FOR CABINETS

For use with relay-rack or cabinet type equipment described above. Permits moving of units without dismantling. Frances of heavy steel and 3" wider for better weight distribution. Trucks have 2" swivel casters. Those marked are slate grey-ripple finished with chrome trin; others have black ripple enamel finish. 85-482 and 85-183 are heavy duty units ideal for heavy transmitters. † Steel wheels. ‡ Rubber wheels. Average shipping wt., 10 lbs.

Stock No.	Inside Clearance	NET
86-180	7191/2 x 13"	\$4.05
86-181	1211/4 x 17"	6.15
86-182*	#21 1/4 x 131/2"	5.10
86-183*	225% x 17/4"	6.90

PAR-METAL EQUIPMENT STANDARD STEEL CABINETS

Attractive modern square-cornered relay-rack. Recessed front; panels fit flush with edges. Constructed of 1/6" cold-rolled steel. For all 19" panels with Amateur or W. E. notching. Full length re-movable hinged rear door. Cabinets are 21" wide, 161/2" deep; inside depth, 151/4". Fur-nished knocked-down with hardware for easy assembly.

Provide ance for 98-820,	re for eases profession your job 95 lbs.; -822, 165	onal appe . Shpg. w 98-821,	ts.,	
Black	Grey	Panel	Overall	NET
No.	No.	Space	Height	
98-820	98-825	363/4"	42"	\$21.30
98-821	98-826	611/4"	66½"	28.50
98-822	98-827	77"	82¼"	35.40

STANDARD TABLE CABINETS

Made of 1/16" steel. Ventilation lonvres on sides and back. Drilled for standard 19" rack panels. 98-830, 98-831 with hinged doors on top; others with doors on top and rear. Take chassis up to 17 x 13". Black-ripple finish only.

	Panel Space	Size H W D		NET
98-831 98-832 98-833	121/4×19" 171/2×19" 261/4×19"	83/4x19x143/4" 121/4x19x143/4" 171/2x19x143/4" 261/4x19x143/4" 35 x19x143/4"	27 lbs. 36 lbs. 47 lbs.	6.45 9.60 10.50

RELAY RACKS

Expressly designed for professional-appearing transmitter or public address system installations. Substantially built of ½ pressed steel with spot-welded corners for extra heavy-duty service. Sturdy construction assures maximum rigidity and keeps all units in perfect alignment. Will accommodate all 19-inch rack panels with either W. E. or Amateur slotting. Holes are tapped for 19½ machine screws. 98-840 has heavy-wrought steel base 19″ deep, 20″ wide. 98-841 has same type base, but 22″ deep, 20″ wide. Furnished in black-ripple finish. Shipped in knock-down term, complete with necessary nuts, and bolts for easy assembly and an ample supply of panel mounting screws and cup washers.



BUD REMOVABLE TOP CHASSIS

New type chassis base made of auto-body steel. Consists of channel-type frame with removable flat top. Permits changes in circuit



changes in circuit and layour at minimum cost. Easy to cut holes for sockets, transformers, etc. Also allows close wiring of components under top of base without sides interfering with use of tools. Black crackle finish. Less replacement tops listed below.

Stock No.	D W H	Shpg. Wt.	NET
86-250	10"x17"x3"	5 lbs.	\$1.29
86-251	10"x17"x4"	6 lbs.	1.76
86-252	13"x17"x3"	9 lbs.	1.94
86-253	13"x17"x4"	10 lbs.	2.44

REPLACEMENT TOP PLATES

For use with removable top chass is bases listed above; provides a new chass at less than half the usual cost. Heavy-rauge saits body steel

86	260 261		0"x17" 3"x17"	1 4	lbs. lbs.	1	65c 82c	
*11C	usuku	cosc.	11cary	Bunge	duco	Cody		

WE CAN SUPPLY ALL PAR-METAL OR BUD CABINETS. Send for free literature 37-045. Bud Catalog — Sent FREE 37-042. Par-Metal Catalog — FREE

RADIO STATION CALL-LETTER **PLATES**

Polished metal with black background. Has two threaded studs for mounting



on transmitter. Removable brackets for mounting on car. Made to order. 2½x8½". Wt., 1½ lbs. \$1.50

TYPE A-16



Carries three affiliation letters at each side on black background. Cast metal with raised border and letters. Has brackets and threaded studs for mounting. Made to order. 2½x8½". Shps. wt. 1½ lbs. wt., 136 lbs. 73-061. NET.....

TYPE A-26

Metal lapel-button call letters with highly polished and raised letters. Shpg. wt. 8 oz. 73-062. NET. 50c



All plates made to order. Send cash with your order. Plates will be shipped to you direct from manufacturer.

METAL NAME PLATES



Metal nameplates with characters and horders chromium plated. Backgrounds etched dull black. Available in 125 different markings. Microphone. Phono. Input. Antenna. Key. Rectifier, etc. Standard size plate, 1½ x ¾8. Furnished with self-tapping screws. State markings desired when ordering. 73-050. NET EACH.

DELUXE SIZE

125 NAMEPLATE MARKINGS AVAILABLE 37-033. Complete listing—sent FREE

JOHNSON INDICATORS

Attractive tuning indicators which give that mack desired Commer-cial appearance to Amateur trans-mitters. Handle: molded of one-piece black baselite. Scale is black and silver etched metal, with zero at left. Fit any '\(\lambda'' \) shaft; Type 206 also fits \(\lambda'' \) shaft. Permits fine adjustment. Average wt., 8 oz.



73-295. Type 204. Indicator with 4" diam. scale. NET.....

73-296. Type 206. Indicator with 6" diam. scale. NET. . . . 73c

GORDON HAND WHEELS

A complete line of tuning control wheels which permit uniform appearance on all types of transmitting equipment. Bakelite wheel with pointer; fit all '4', 'stafut. 1'4', wheel with 270° scale for gain controls. Avg. wt., 8 oz. 74. 500, 314', 'Flord Wh



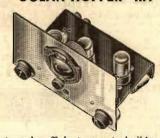
74-500. 31/4 Fland Wheel and \$1 Pointer with 180° scale. NET	12
74-501. 2¼ Hand Wheel and Pointer with 180° scale. NET	94.
74-502. 1% Hand Wheel and Pointer with 180° scale. NET	
74-503. 1% Hand Wheel and Pointer with 180° scale. NET	
74-510. 11/8" Hand Wheel and Pointer with 270° scale. NET	

HAND WHEELS ONLY

Same as above,	with pointer, less scale.	
	Hand Wheelonly. NET 820	
	Hand Wheel only NET 710	
	Hand Wheelonly NET 240	

KNIGHT "Build your Own"KI

Knight ALL-WAVE AC-DC "OCEAN HOPPER" KIT



An extremely efficient, easy-to-build receiver of modern design. Appropriately named "Ocean Hopper" because its possibilities are almost unlimited for far-reaching reception. One of the most successful "Knight" kits. Equipped with modern up-to-date tubes. Uses two new single-ended bantam tubes which do the work of three. 1—125/7GT High Gain R.F. pentode in an electron-coupled regenerative circuit and 1—70L7GT Beam Power output and diode rectifier combined. Features a vernier tuning dial; regeneration control; antenna loading control. Has built-in power supply for AC or DC, 115 V. operation. Kit contains drifled metal chassis base and panel, sockets, condensers, resistors, wiring diagram, etc. Coils, tubes, speaker and headphones are extra—see below for listing. Shpg. wt. 8 lbs. \$7.25 83-311. Tube Kit. NET......\$1.32 83-314. 5" Speaker with transformer. NET\$2.37

NEW Knight SUPERHET 5-TUBE AC-DC KIT

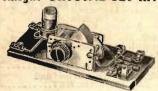


A 5-tube AC-DC superhet receiver for students and builders. Ideal as an educational project for radio instruction courses in schools, recreational centers, etc. Has large, easy-to-read, illuminated airplane dial. Tunes entire broadcast band from 550 to 1600 KC. Has self-contained, sensitive loop aerial—no outside aerial required. Efficient AVC circuit minimizes fading. Includes 5" dynamic speaker designed for excellent tone quality. Uses 1—12SA7, 1—12SK7, 1—12SQ7, 1—50L6GT and 1—3525GT rectifier. Assembly is simple—you need only a screwdriver, pliers and soldering iron. Complete with punched chassis, tubes, speaker, all parts and instructions. For 110 V. AC or DC. Shpg. wt., 6 lbs.

83-305. Kit with Tubes. \$10.75

83-306. Walnut Cabinet. Attractive wood cabinet, drilled for above. NET.....\$3.75

Knight CRYSTAL SET KIT



A crystal set that anyone can build. Supplied in easy-to-assemble kit form. Will provide unusually fine reception of local broadcast stations. Kit contains baseboard, wound coil assembly, variable condenser, crystal detector, connectors, hardware, wire, easy-to-follow instructions, and diagram. Easy to build. Shpg. wt., 4 lbs.

83-260. NET.

59-110. Headset NET. 59-110. Headset. NET......\$1.05

83-100. Aerial Kit. NET......520

ALLIED IS HEADQUARTERS FOR ALL RADIO BUILDERS

Every radio builder—newoiner, advanced experimenter, or Amateur—will find of special interest the wide selection of "Build-Your-Own" kits on these pages. Designed under supervision of L. M. Dezettel, noted kit engineer and radio magazine author, each kit has been carefully planned and laboratory tested. ALLIED kits are easy to assemble: chassis and panels are formed and punched; detailed instructions plus schematic and pictorial diagrams furnished are easy to follow; every necessary part, including hardware, wire, and solder, is supplied with each kit.

PERSONAL SERVICE TO BUILDERS
For complete, authoritative advice and suggestions on your radio building problems, write to L. M. Dezettel, Chief of ALLIED'S Kit Division—you'll get prompt, personal service. Make ALLIED your kit headquarters.

GREAT RADIO BOOK VALUES



Postpaid

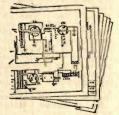


RADIO BUILDER'S HANDBOOK

DICTIONARY OF RADIO TERMS

"BUILD-YOUR-OWN" WIRING DIAGRAMS

Clear, easy-to-read diagrams with complete matched parts lists. Enable you to build your own receivers, transmitters, amplifiers, power supplies, PE devices, etc., using the latest tubes and modern efficient circuits. efficient circuits. Includes kits describ-ed on these pages.



as-000. Crystal Set.
38-001. 1 Tube Battery "D.N.-E.R." Set.
38-002. 1 Tube AC-DC SW-BC Set.
38-002. 1 Tube AC-DC SW-BC Set.
38-004. 2 Tube Battery "D.N.-E.R." Set.
38-004. 2 Tube Battery "D.N.-E.R." Set.
38-005. "Bandswitch 3" AC-DC TRF.
38-005. "Bandswitch 3" AC-DC TRF.
38-006. 4 Metal Tube "Super-Gainer."
38-007. 5 Tube AC Broadcast TRF.
38-028. 5 Tube Broadcast AC-DC Super.
38-008. "Communications 5" Ham Super.
38-009. 6 Tube Broadcast Battery Super.
38-010. Experimenters' Icit and 1 Tube Set.
38-011. Beat Oscillator Kit.
38-011. Beat Oscillator Kit.
38-012. Wireless Phono Oscillator.
38-013. 1 Tube Pocket Set.
38-014. Junior Receiver-Transmitter.
38-015. 2½ Meter Transceiver.
38-016. 20 Watt Transmitter.
38-015. 3 Watt Amplifier and Power Supply.
38-019. Photo-Electric Cell Unit.
38-020. Noise Silencer.
38-021. Coil Winding Data.
38-022. 3 Tube Phono Amplifier.
38-023. 3 Tube Hi-Gain Phono Oscillator.
38-024. Hi-Gain 14 Watt Amplifier.
38-024. Hi-Gain 14 Watt Amplifier.
38-024. Hi-Gain 14 Watt Amplifier.
38-025. Fluorescent Lighting Fundamentals.
38-030. Volume Expander-Compressor.
38-031. AC-DC Code Practice Oscillator.
38-032. 3 Tube Electronic Laboratory.
YOUR PRICE,
EACH DIAGRAM, POSTPAID. YOUR PRICE, EACH DIAGRAM, POSTPAID. 5c Choice of Any 6 Diagrams. 20c

NEW 1942 Knight 3-TUBE BATTERY "DX-ER" KIT



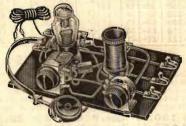
Knight 2-TUBE "DX-ER" KIT

Allied presents one of the most popular low-priced kits for the short-wave



59-110. Headphones for above \$1.05

Knight 1-TUBE "DX-ER" KIT



Full all-wave continuous coverage from 9.5 to 550 meters using coils listed below. Brings in Broadcast, Amateur. Police and SW DX stations. Uses 1 type 30 tube. Kit includes all parts, and instructions. Less tube, batteries, coils and headphone. Wt., 4 lbs. \$2.50 83-340. Kit less accessories....

83-341. Tube and Battery Kit. Shpg. wt., 11 lbs. NET. \$1.67 59-112. Headphone for above.......71c

COILS FOR ALL ABOVE KITS

60-670. Coil Kit. Set of four coils covering 9.5 to 217 meters. Wt., 2 lbs. NET.....98c

AUDIO AMPLIFIER KIT

TAKE ADVANTAGE OF OUR 2% FREIGHT ALLOWANCE

Schools—Colleges—Radio Clubs. Write for our attractive quantity prices for wiring diagrams.

TEST "Build Your Own" KI

HI-FI 14 WATT AMPLIFIER KIT FOR PA. PHONO & FM USE



A high gain, high fidelity resistance coupled audio amplifier kit. Excellent for use with a phono player or as a PA system. 3 inputs provided: crystal microphone, a phono and a radio input. Has separate mike, phono and tone control. Circuit uses self-balanced phase inversion. Has inverse feedback for finest quality and reduction of hum. Tubes required: 1-6517, 1-65C7, 2-6V6G, 1-80 rectifier. For use with PM dynamic speaker. Kit contains all parts and instructions. Less tubes, speaker, and output transformer. For 115 V. 60 cycles. Shpg. wt., 11 lbs.

83-350. NET.

83-351. Knight tube kit for above. \$2,33 83-351. Knight tube kit for above. \$2.33

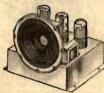
Knight 4-WATT AMPLIFIER KIT



A high-quality AC-DC amplifier kit. Ideal for modernizing old phono quipment to achieve full realistic reproduction of all types of recordings. Tubes used: 1—6C8G. 2—25L6G, 1—25Z5 rectifier and 1 ballast. Has input connections for a high-impedance crystal pickup. Output is for any PM speaker and output transformer. Tone control permits accentuation of treble or bass ranges as desired. Overall size with tubes inserted is 4" x 8" x 6½". For 115 V., AC or DC. Kit is complete, with instructions. Less tubes, speaker, and output transformer. Shipping weight, 8 lbs.

83-355. NET \$4.95 93-005. Knight Tube Kit......\$2.47

3 TUBE DELUXE PHONOGRAPH AMPLIFIER KIT



The latest development in phonograph amplifiers. The 3 tube high gain circuit is designed for either a crystal or a magnetic type pickup. The 5° PM speaker with new Alnicomagnet easily handles the 2-watt output. Inverse feedback is used to reduce distortion and increase fidelity. Tubes used: 1–12J5GT, 1–50L6GT, 1–35Z5GT rectifier. (Not supplied.) Kit includes drilled chassis, built-in volume control, speaker, instructions and all necessary parts. For 115 V. AC or DC. Wt., 8 lbs. \$4.75

83-361. Tube kit for above. NET. \$1.24 Knight EXPANDER-COMPRESSOR



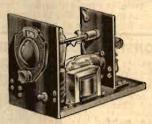
For modernizing radio sets or PA amplifiers. Adding expansion to radio or record players restores original dynamic range; adding compression, reduces blasting and acoustic feed back in amplifiers. Circuit used is based on a new principle which eliminates eritical tubes and adjustments. Has "on-off" switch, pilot light and single control providing smooth, continuous variation of expansion or compression. Tubes used: 1—65K7, 1—68J7.

1—6H6, and 1—80 rectifier. Kit contains all parts, gray-crackle finished drilled chassis, and instructions for assembly and connection to any radio, record player or PA amplifier. Less tubes. Shpg. wt., 9 lbs. \$6.85

83-366. Tube kit for above. NET.\$1,64 83-366. Tube kit for above. NET. \$1.64

POPULAR KITS FOR THE RADIO AMATEUR

Knight POPULAR LOW-PRICED 21/2 METER TRANSCEIVER



An inexpensive Transceiver Kit for the Amateur Experimenter who wants to investigate the 112-116 MC band. The circuit uses a type 76 tube acting as a super-regenerative detector for receiving and as an oscillator for transmitting. The type 41 tube alternates as an audio amplifier and as a modulator. Kit contains tubes and all necessary parts including hook-up wire and hardware. Detailed instructions for assembly are provided. May be used with the power supply listed below or any 6 V. vibrator pack. Wt., 6 lbs.

\$6.25

83-370. NET.

83-371. Power Supply Kit. A well-filtered unit providing "A" and "B" voltages for above. With 80 tube. For 115 \$3.05

Knight "JUNIOR" AMATEUR STATION



Designed for the beginning Ham, this complete Amateur CW station is offered in easy-to-assemble single-unit kit form. The Knight "Junior" is complete! All on one attractive black wrinkle finish chassis and panel: a modern two metal tube Autodyne receiver, a complete power supply, and a modern crystal-controlled CW transmitter using a 6L6G tube with up to 25 watts output to the antennal

GET ON THE AIR AT LOW COST!

Every necessary part is supplied; chassis and panel drilled and finished, all parts including Hammarlund and Thordarson components, hardware, 80 meter crystal and holder and all tubes! Full instructions and clear diagrams included. Coil forms and wire are supplied for the 80 meter band. Receiver is regenerative Autodyne type with 6J7 and 6C5 metal tubes. Transmitter puts out pure T9X signal. Single heavy-duty power supply with 5Z4 rectifier tube operates both receiver and transmitter. Operates from 110 volt, 50-60 cycle AC, but has provisions for battery operation. Ideal for camp and field day. Shpg. wt., 24 lbs.

83-375. COMPLETE KIT. Includes every

83-375. COMPLETE KIT. Includes every necessary part, tubes, and 80 meter crystal. NET PRICE \$27.50

Knight "COMMUNICATIONS 5" FOR AMATEUR OR SWL



An inexpensive, easy-to-assemble 5 tube "communications" type super-het receiver in kit form. Designed especially for the beginning Amateur or Short Wave Listener. Sensitivity equal to that of many higher priced commercial receivers. Covers a continuous tuning range from 1700 KC to 32 MC using plug-in coils. Features full bandspread tuning, beat frequency oscillator for CW reception, standby switch, built-in 5" dynamic speaker, Ironcore IF's, speaker-muting type headphone jack. 1500 KC IF reduces images. Tubes used: 1—6K8, 1st detector and oscillator, 1—65K7 IF stage, 1—6C8G 2nd detector and BFO, 1—6F6 audio and 1—524 rectifier. Easily assembled from detailed diagram and clear instructions furnished. Kit contains all necessary parts, drilled chassis and panel, speaker, hardware and diagram. Less tubes and coils. For 115 volts, 60 cycles AC. 12 lbs. \$14.65

83-386. Tube kit for above. NET. \$2.74

SETS OF COILS FOR ABOVE

83-395. 2 coils for 160 meter band. 83-396. 2 coils for 80 meter band. 83-397. 2 coils for 40 meter band. 83-398. 2 coils for 10-20 meter band.

PER SET OF 2. 83-399. Set of 8 colls. NET. \$2.80

CODE PRACTICE OSCILLATOR



Efficient code practice oscillator of latest design, supplied in easy-to-assemble kit form. Has continuously variable pitch control to provide full range from high to low pitched signal to suit students' personal preference. Crisp, clear tone sounds just like CW signals on the air. Jacks are provided for both key and headphones. Volume control allows control of signal from a low level for single headphone to high volume for use with class-room table using up to 20 sets of headphones. Built-in 5' speaker for class use is muted by insertion of headphone plug. Used with any type high impedance magnetic phones and any type key (see pages 136 and 159). Requires 1—11/L/GT tube, used as combination oscillator and power supply rectifier. Kit contains all parts, crackle-finished drilled panel and chassis, two plugs for phones and key, diagram, detailed wiring instructions. Less tube. For 115 volts, AC or DC. Shpg. wt., 9 lbs.

\$5.50
9-356. Knight 117L7GT tube. NET. 99c

3 TUBE HIGH-GAIN WIRELESS



OSCILLATOR

A phono oscillator for playing phonograph records or using a microphone through a receiver tuning the standard Broadcast band. The high-gain circuit permits excellent results to be obtained with the mike listed below. Has separate high impedance phono and mike input jacks with individual volume controls for mixing voice and music. Complete kit consists of black crackled, formed and drilled chassis, all parts, and diagrams and instructions. Uses:

—12SF5GT, 1—12SA7GT, 1—35Z4GT rectifier. Tubes not supplied. For 115 V. AC or DC operation. 5 lbs.

\$5.85
83-381. Tube kit for ubove.....\$1.37

83-381. Tube kit for above.....\$1.37 59-310. Quam microphone.....

Knight WIRELESS PHONO-

OSCILLATOR



83-401. Tube Kit. NET.... 85-400. Phono Motor. NET... 65-200. Crystal Pickup. NET

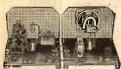
"POPULAR

MECHANICS" Build-Your-Own

"EASY-TO-BUILD" POPULAR MECHANICS KITS

Here is an extensive selection of complete kits, with carefully matched parts and large blueprints in pictorial and schematic form for building the most popular circuits described in recent issues of *Popular Mechanics Magazine*. We also supply complete parts lists and parts for all *Popular Mechanics* projects as soon as published. For best results, build with *ALLIED* tested and approved kits and get the Right Parts at a Big Saving.

MINIATURE TUBE FLASHLIGHT BATTERY KIT



BATTERY KIT
R289. A two unit kit, each unit using one of the low-drain, miniature type 1S4 tubes. Ideal "first set" for beginners. Receiver to bother with. Bands are quickly and easily changed by panel switch. Covers entire broad-cast band from 550 to 1600 KC, as well as the 160 and 80 meter Amateur bands including many police and aircraft channels. Uses 2 flashlight cells for "A" and 4 flashlight cells for "B." For headphone operation. The amplifier unit when added permits loudspeaker operation of receiver and requires for its power 1—4½ volt "C" and 1—45 volt "B" battery. Kits supplied less tubes and batteries. Weight: 83-600, 5 lbs.; 83-601, 1 lbs. 83-602, 5 lbs.; 83-600. Receiver Kit. NET... \$3.85

83-601. Receiver tube & battery kit....93c 83-602. Amplifier Kit. NET......\$2.60 83-603. Amplifier tube & battery kit 2.20

VERSATILE 4-PURPOSE 1-TUBE AMPLIFIER



R292. A 1-tube
"4-in-1" high quality audio amplifier.
Used to boost local
station output of
any good crystal
set to loud-speaker

phone; to reproduce phonograph records from carbon microphone; to reproduce phonograph records from crystal pickup; as an 80 volt "B" eliminator for small battery sets. Comes complete with speaker, all parts and blueprint. Less tube. For 110 volts 60 cycles. Wt., 8 lbs. \$7.60 9-357. 117N7GT tube for above. NET. 99c

PORTABLE BATTERY SET KIT



R279. A self-contained portable 4 tube battery superhet. Ideal for trains, boats, cars, summer homes, camps, etc. Has a built-in loop antenna. Covers the standard Broadcast band. The low-drain 1.4 volt tubes (1A7G. 1N5G, 1H5G, 1T5GT), draw only 12 ma. of "B" current. A self-contained combination A and B battery operates this highly efficient receiver for over 200 hours. Has PM speaker. Kit consists of all parts, including punched chassis base less only tubes, batteries and cabinet which are listed below. With complete instructions and blueprint. Wt., 9 lbs. \$8.85

83-621. Tube and Battery Kit....\$4.82 83-622. Portable Case...... 2.95

CONSTRUCTION BLUEPRINTS

The leading new Popular Mechanics sets are clearly described on 17" x22" blueprints. Include schematic and pictorial diagrams, esential construction data, and matched lists of parts. Simplify buildyour-own problems by using these blueprints.



your-own problems by using these blueprints.

38-200. R245. Two Tube Portable.

38-201. R252. One Tube DX SW Set.

38-202. R259. All-Purpose Power Supply.

38-204. R272. Portable Sound System.

38-204. R274. Zero Beat Treasure Finder.

38-205. R275. 2 Band Flashlight Set.

38-206. R278. 6 Tube, 3 Band Super.

38-206. R278. 6 Tube, 3 Band Super.

38-207. R279. Portable Battery Set.

38-209. R280. Mighty Midget One Tuber.

38-209. R281. Capacity Operated Relay.

38-210. R283. High Fidelity 5 Tube Set.

38-211. R284. Wearable Hearing Aid.

38-211. R286. Beginner's All-Wave 2 Tube.

AC-DC Set.

38-214. R287. TRF Hi-Fi Tuner.

38-215. R288. 1941 "Little Giant" Super 5.

38-216. R289. Min. Tube Flashlite Set.

38-217. R290. HighFidelity Record Player.

38-218. R291. Portable 20 Watt Amplifier.

38-219. R292. Four Purpose Amplifier.

38-221. R294. Little Giant "Pup" 3T TRF.

38-222. R293. Home Recorder Adapter.

38-221. R294. Little Giant "Pup" 3T TRF.

ZERO BEAT TREASURE FINDER

R274. A "Chilson" type metal locating device with many outstanding features. Uses the well-known beat-frequency circuit. Has none of the disadvantages caused by extraneous canacity



83-651. Foundation Kit. Consists of R.F. coupler unit, exploring coil with handle, cord and plugs, AF choke. \$15.75

CRYSTAL HEARING-AID KIT

R284. Popular Me-chanics' most unique project. A light-weight, high-gain, wearable type amwearable type am-plifier, for the hard-of-hearing. Employs latest type Hytron Bantam Jr. tubes, 2— HY115, 1—HY125,



HY115, 1—HY125, in resistance coupled circuit. Complete amplifier and microphone fits in a durable case only 6½" x 1½" x 3¾" and is worn on neck cord. When finished, will work like professional unit at ½ cost of factory-made amplifier. 100 hours of continuous service from battery. Use with single light-weight earphone below. Complete kit with all parts including microphone, drilled and formed sturdy case and subchassis. (Less battery, tubes and earphone.) Shps. wt., 3 lbs.

83-660. NET.

83-661. Comb. "A" and "B" battery \$1.98 59-010. Single Trimm headphone .. 3.67 83-662. Tube kit for above...... 7.50

PORTABLE HOME RECORDER ADAPTER KIT

R293. A home re-corder and record



recorder and record player in a portable case, designed for use with any good radio. Makes records on acetate discs up to 10° dia. Has built-in preamplifier so that any crystal microphone can be used. Five-point switch permits: (1) recording "off-the-air", (2) recording from mike, (3) use as PA system, (4) record playing, (5) straight radio operation. Has neon level indicator. Kit is complete with all parts, including quality 8-ohm magnetic cutter, crystal pickup, 78 RPM motor, and blueprint. Less tubes, case and microphone. For 110 volts, 60 cycle operation. Wt., 22 lbs.

83-630. NET

83-631. Tube Kit For Above. NET... 83c

83-631. Tube Kit For Above. NET 83c 83-632. Portable Case For Above. . \$5.50

IMPROVED LITTLE GIANT "PUP" AC-DC 3 TUBE TRF

R294. Popular Me-chanics' latest re-ceiver in the Little



R294. Popular Mechanics' latest receiver in the Little Giant series. Efficient TRF circuit covers full broadcast and police band. Three of the latest GT bantam-type tubes are used, giving performance equal to 4 tubes. Uses 12SK7GT RF, 12SJ7GT detector and 70L7GT combination beam power amplifier and power supply rectifier. No line cord or ballast tube used. Set will deliver full 1½ watts of input to an efficient 5" PM dynamic speaker. When used with cabinet below will make an excellent home set measuring only 7½"x6¾"x4½" overall. Kit is supplied complete with all parts, including punched and formed chassis, speaker, all necessary hardware and large blueprint. Less only tubes and cabinet. Operates from 110 volt AC or DC line. Wt., 7 lbs. \$6.25

83-641. Kit of 3 tubes for above....\$1.80 83-642. Wood cabinet to fit above . . 2.25

ALLIED'S LATEST KIT DEVELOPMENT—THE Knight RADIO LAB KIT



Build Your Own 3-Tube Radio Receiver **Build An Interesting Capacity Relay**

Build Your Own Code Practice Set Build A Wireless Phono-Oscillator

ild A PA Amplifier or Record Player our Own Home Broadcaster

The most remarkable combination radio kit ever offered to radio beginners! Practical—educational—fascinating. Designed by ALLIED's expert engineering staff. Complete materials—down to the small-stations. Will build: a 3-tube receiver—tunes in stations within a 25-mile radius (or farther); a home "announcer"—permits you to "broadcast" through your home radio set; a code practice oscillator—to teach you wireless code; an electronic relay system—so you can construct a burglar alarm; detectophone amp., wireless phono-osc, record playback amplifier, and small PA amplifier.

MAKE RECEIVERS



The best way to learn radio is by building equipment that really works. The 8-page manual contains clear schematic and pictorial diagrams for each of the projects. They are easy to follow and instructive.



BROADCASTS

IDEAL FOR HOME AND SCHOOL

The complete kit includes 3 tubes, microphone, condensers, resistors, 110V., 60 cycle transformer, solder, headphone, relay, telegraph key, mounting board, hardware, wire, and complete, easy-to-understand instructions for building each of the articles described to the left. These same parts may be used also for building many other useful items. Shipping weight, 10 lbs.

83-270. Complete Lab. Parts Kit. NET \$6.75

YOU CAN DEPEND ON ALLIED FOR EVERYTHING IN RADIO

Philmore · BUILDERS' KITS · Meissner

PHILMORE KITS 2-TUBE AC-DC KIT



An unusually compact and easy-to-assemble

compact and easy-to-assemble 2-tube set which operates from 110 volts AC or DC. Uses 2 type 76 tubes (1-detector. 1-rectifier) in an exceptionally efficient circuit. Designed especially for use with headphones. Has standard variable condenser for improved selectivity, Meets Underwriters' requirements. Chassis is insulated from the power line. Tunes standard Broadcast band and (with extra coils below) Short Wave bands down to 17 meters. Complete with drilled chassis base and panel, BC coil, all necessary parts, and complete instructions. Shpg. wt., 51bs. 83-040. Complete less tubes \$3.75 9-340. 76 tube for above. EACH....38c 9-340. 76 tube for above. EACH..... 38C 83-041. SW Coil Kit (4 coils). NET .. 720

1-TUBE AC-DC KIT

A 1-tube set with 2-tube performance. Similar to 83-040 above except uses only 1—117L7GT tube comprising two tubes in one envelope (a high-gain beam tube used as a regenerative detector and a rectifier). The circuit employed has high sensitivity. No resistor is used in the line cord. Complete with drilled chassis base and panel, broadcast band coil, all necessary parts, and instructions. For 115 V. AC or DC. 5 lbs. 83-045. Kit of parts less tubes 3.45 and headphones. NET 9-356. Tube for above kit. NET.... 990 83-046. SW Coil Kit (4 coils). NET .. 720

ECONOMY AC-DC WIRELESS PHONO-OSCILLATOR KIT



A phono-oscillator kit, designed for the home construc-tor. A unique type circuit permits ex-cellent results with

9-337.70L7GT tube for above. NET ... 84c

CATHODE RAY TUNING UNIT



TOOL KIT FOR BUILDERS



Fine values in American-made tools for radio and electrical work. Contains 1 each of the 3 most frequently used tools for experimental work and are the only tools needed for building kits on these pages. Consists of:

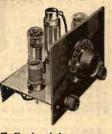
5° long overall; Screw Driver with amber handle and 6° blade; and 55-Watt 2-Tip Soldering Iron. Wt., 4 lbs. 45-850. Kit of 3 tools. NET. \$1.53

MEISSNER "BUILD-YOUR-OWN" KITS

It is easy to build your own radio receiving sets with the complete and easy to follow instructions which are included with every Meissner "Build-Your-Own" Kit. The most popular models are listed below. Write for complete Meissner Catalog 37-021, showing many other kits (both FM and AM types), wired chassis assemblies (with and without cabinets), and individual precision-built parts. We can supply all Meissner Products.

EASY-TO-BUILD MEISSNER STUDENT "MIDGET" KITS

These outstanding new kits are ideal for the radio newcomer and experimenter. The use of 1.4 volt tubes provides high efficiency and economy of battery consumption. Each kit includes coil for the Broadcast band. Clear instructions for wiring and operating are supplied. Educational and practical. 83-420.1 TUBE Kit



tional and practical.

83-420.1 TUBE KIT. For headphone reception. Uses 1—1E4G tube, 1—1½ V. "A" and 1—45 V "B" battery. Less tube and batteries. Shpg. wt., 3 lbs.

83-421.2 TUBE KIT. Requires 1—1C5G. 1—1E4G tubes; 1—1½ V. "A" 2—45 V. "B" and 1-1½ V. "C" batteries. Less tubes and batteries. Shpg. wt., 3 lbs.

83-422.3 TUBE KIT. 84 Shpg. wt., 3 lbs. \$3.88 NET
83-422. 3 TUBE KIT. Requires 1-1C5G,
1-1E4G, 1-1H5G tubes; 1-1½ V. "A", 245 V. "B", 1-7½ V. "C" batteries. Less tubes
and batteries. Shpg. wt., 3 lbs. \$4.85

...\$4.85

ADD-ON KITS

Permits increasing size of 1 and 2 tube kits. 3 tube kits will provide speaker reception. 83-423. Converts 83-420 to 2 tube kit. Less—1C5G tube; 1—7½ V. "C", and 65c 1—45V. "B" batteries. See below. NET 65c 83-424. Converts 83-421 to 3 tube kit. Less 1—1H5G tube. See below. \$1.21

ACCESSORIES FOR ABOVE

ACCESSORIES FOR ABOVE

83-425. 70-200 Meter Plug-in Coil. EACH
83-426. 35-70 Meter Plug-in Coil. 38c
83-427. 17-35 Meter Plug-in Coil. 38c
83-427. 200-560 Meter B.C. Band Coil 97c
4-024. Raytheon 1E46 tube. NET. 67c
4-016. Raytheon 1E56 tube. NET. 84c
4-037. Raytheon 1H56 tube. NET. 67c
80-804. 1½ volt "A" battery. NET. 23c
80-800. 45 volt "B" battery. NET. 99c
80-516. 7½ volt "C" battery. NET. 48c
59-112. Single 1,000 ohm headphone with headband. NET. 71c

AC-DC KITS

83-430. 2-Tube Kit. As 83-420 above, but uses 1—76 Det., 1—76 Rect. Less tubes. Shpg. wt., 3 lbs. NET.

83.431. 3-Tube Kit. Like 83-421 above, but uses 1—76 detector, 1—76 audio, and 1—76 rectifier. Less tubes. 3 lbs. 83-432. CONVERSION KIT. Converts 83-430 to 3 tube kit. Less 1-76 tube... 29c

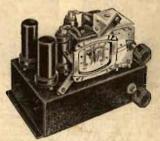
Knight "BANDSWITCH THREE" TRF KIT



Three tubes give the per-

83-251. Speaker and output transformer. NET..... 83-252. Knight tube kit. NET ... \$1.73

4-TUBE AC-DC TRF KIT



An easily-built metal tube receiver with surprising sensitivity and tone quality. For broadcast reception, 530 to 1600 KC. Uses a 6K7 RF amplifier, 6J7 power detector, 25A6 pentode output, and 25Z6 rectifier. For 110 volts AC or DC. Kit includes all necessary parts, chassis and instructions. Shpg. wt., 9 lbs. 83-440. Complete Kit, less \$10.53 tubes, and speaker. NET.....

83-442. Matched kit of tubes for above. NET \$2.44 81-610. 5" Speaker. NET......\$1.10

WIRELESS PHONO-OSCILLATOR

Phono oscillator designed for use with any radio in conjunction with magnetic or crystal phono pickup. Does not require connection to radio receiver. Uses 6F7 oscillator and 25Z5 rectifier. Supplied complete with drilled chassis and instructions (less tubes). For 110 volts AC or DC operation. Shgg. wt., 5 lbs. Easily assembled.

NEW INSTRUCTION MANUAL

NEW Knight FM TUNER



A complete kit of parts to build an 8 tube

of parts to build an 8 tube FM tuner that may be used in may be used in conjunction with any audio amplifier or radio. FM brings you high fidelity, staticless reception. Uses: 6SK7 RF, 6SA7 converter, 6SI7 oscillator, 2—6SK7 IF's, 6SI7 limiter, 6H6 discriminator, 5V3G rectifier. High frequency front end is supplied already wired and aligned. Kit is complete with all parts including punched chassis and instructions. Less tubes and dial. For 110 volt, 60 cycles. Wt. 12 lbs. \$2 1.45

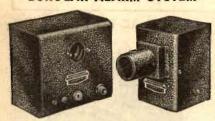
83-326. Kit of 8 tubes.... 83-327. Deluxe dial.....

PHOTO-ELECTRIC CELL EQUIPMEN

WORNER "FOTO-ELECTRIC" PRODUCTS

We can supply Worner "FOTO-ELECTRIC" units for Industrial uses such as automatic sorting, grading, or counting; for machinery protection or control; for heat, light or smoke control, etc. Send us details of your requirements for complete information and prices on equipment designed to meet your needs. Worner "FOTO-ELECTRIC" products are the finest units available. The Worner equipment on this page is also available with other voltage inputs. Write us for prices.

BURGLAR ALARM SYSTEM



Provides long life, easy installation, reliability, and economy of operation. Indispensable in the protection of homes, offices, stores, shops, etc. Consists of 2 units: an invisible black-light gource and a combination photo-electric cell, relay, and grid control rectifier. In operation, the invisible light beam is focused on the cell. Interruption of beam or of the 115 volt circuit will cause relay to trip. It is re-set by means of a tumbler-type, pick-proof lock. 2 keys supplied. Lamp life, 1500 hours. Terminal strip for closed or open circuit operation. Light unit, 4x4x6°; relay unit, 6x7x4°. Range is 75 feet. For 115 V., AC. Wt. 9 lbs.

83-700, Model 301N. NET.

BURGLAR ALARM GONG

77-000. For use with above or any burglar alarm system. 5-inch gong in weatherproof metal housing. May be used outdoors. With batteries, handy terminal strip, and 25 feet of cable. Shpg. wt., 9 lbs. \$8.79

PHOTO CELL ACCESSORIES





77-003. Photo Cell. Standard 4 prong radio tube base type cell. NET......\$2.20
77-004. Infra Red Filter. NET......68c 77-035. Fig. B. DOOR CHIME. Dual tone. For use with PE equipment, in homes or offices. 5 V. DC, 8 V. AC. Wt., 3 lbs. \$1.25 ELECTRIC COUNTER. Counts 0 to 99999. Chrome case with mounting lugs. Wt. 2 lbs. 77-005. For 110 V., AC\ 77-006. For 6 Volt DC. JEACH \$6.76

KNIGHT AC-DC PHOTO-CELL AND RELAY KIT



ECONOMY LIGHT SOURCE KIT

Throws a concentrated beam of light 50 feet. Has special 50 watt bulb. Kit includes all parts. Easy to build. In attractive metal cabinet with focused lens. Ideal where a low-cost light source is needed. Size: 4½" x 4½" x 2½". For 115 V. AC or DC. Wt., 2½ lbs. \$2.95

INDUSTRIAL EQUIPMENT

PHOTO CELL AND RELAY

Contains a sensitive photo cell and quick-acting SPDT relay. Highly dependable; ideal for smoke control and fire detection, counting, for controlling machinery, lights, and motors.



counting, for controlling machinery, lights, and motors. May be used with any of the Photo Cell accessories listed in left hand column below. Size: 6x7x4". A suitable light source is listed below. For 115 V., 60 cycles. Shpg. wt., 5½ lbs.
77-020. Model 201RN. NET \$19.93

LIGHT SOURCE



"ANNOUNCER" SYSTEM



PHOTOELECTRIC CONTROL BOOK

An authoritative, up-to-date book on photo cells, relays and light sources. Gives valuable data on practical applications, how to make installations, and how to solve common servicing problems. Profusely illustrated. 40 pages.



EBY P.E. EQUIPMENT

EXPERIMENTAL PHOTO CELL KIT

Contains parts for building various Electric Eye circuits. Includes Eby photo-cell, sensitive relay, punched chassis base, adjustable voltage divider, RCA tube, sockets, resistors, condensers, etc. Also includes Eby Handbook. For 115 V. 60 cycles. Shpg. wt., 2½ lbs. 83-720. NET



PHOTO CELL

Excellent for use in all types of photo-electric circuits. 1 ¼" diam., ¼" high. Fits four prong socket. Shock and moisture proof. ½ lb. 77-030. NET.



SENSITIVE RELAYS

Designed for direct, or for full or half-wave rectified current circuits, where operating power is small. Ideal for photocell equipment, vacuum tube amplifier circuits, etc. Operates on as low as 1.25 milliwatts of power. Sterling silver contacts carry 2.5 Amps. at 115 V. DC. Shpg. wt., 1lb.

EACH

77-050. 1000 ohm coll. 77-051. 2500 ohm coll. 77-052. 5000 ohm coll. 77-053, 10000 ohm coil,

s3.82

ELECTRIC EYE HANDBOOK

A 28 page book which contains a wealth of information. Describes in detail the underlying principles of photo-cells. Theory and practice are fully covered and illustrated. Indispensable for the student and the experimenter. 29c



BRADLEY LUXTRON PHOTO-ELECTRIC CELL

These Photo-Electric Cells are finding wide application in the measurement and control of light and in the



control of light and in the automatic control of many industrial processes. They convert light energy into electrical energy without auxiliary voltage sources. Sufficient current is developed for direct operation of instruments and sensitive relays—no amplifiers are necessary. Due to special developments, these cells have extremely low variations in electrical characteristics with changes in temperature. Plug into a standard 4 prong tube socket. Size, 2%6" x 2%6" x 3%". Shipping weight, 8 ozs.

ALLIED PHOTO CELL AND INDUSTRIAL RELAYS



Especially designed for P.
E. work. Silver contacts carry 5 amps, of non-reactive AC up to 115 volts.
All relays are SPDT. Adjustable for pull-in and for contact spacing. Yoke, armature and pole piece are made of Armeo electrical iron, cadmiumplated. Coils layer-wound and fully impregnated. Size, 2% x1 /x x1 /x wt., 1 b.
77-070. 2,500 ohm coil. Designed for plate NET.

77-071. With 6 yells.

77-071. With 6 volt A.C. coil....\$1.57 77-072. With 110 volt A.C. coil... 1.57 77-073. With 6 volt D.C. coil... 1.47

TYPE D RELAYS





For industrial control applications, alarm and signal devices, etc. Layer-wound impregnated coils. Yoke, armature and pole piece of high-grade electrical iron and silicon steel. Contacts handle non-inductive load of 10 amps. at 125 volts AC; fully encased in porcelain housing. New type of construction eliminates carrying current through actuating springs. Have insulated metal mounting brackets. All are DPDT type. Size, 2½ long, 2½ high, 2½ wide. Shpg. wt., 1 lb. 34.02

77-081. D3. 6 V. AC. NET.... \$4.26 77-082. D4. 110 V. AC. NET.... 4.26

ALLIED PHOTO RELAY BOOK

ATTACHMENTS HEADPHONES Accessories

AMERICAN BELL

INSTITUTIONAL HEADPHONES

Especially designed for schools, prisons, Especially designed for schools, prisons, hospitals and other institutions where fool-proof, lightweight headphones are essential. Also ideal for use with crystal sets, battery radios and low-cost hearing aids. Every feature required for institutional use has been incorporated:

metal cases and durable bakelite caps which are easily cleaned; inside terminal connections, to prevent shocks and tampering; 4½' braided cord. These phones have large magnets and two coils per phone, making them ultra sensitive. Shpg. wt., 1 lb.

59-100. 2000 ohms. NET...... \$1.25 59-101. 3000 ohms. NET......\$1.45

SINGLE PHONES

Identical to above, but set includes only one phone. Supplied complete with headband and 4½ braided cable. Terminals are inside the durable metal case, eliminating the danger of shocks. Shpg. wt., 10 oz.

59-102. 1000 ohms. NET...... 80c 59-103. 1500 ohms. NET......90c 59-106. Bakelite caps. NET EACH...12c

NOTE: For special requirements we can supply phones with bakelite caps, with inside or outside terminals, with flexible steel, braided or leather headbands, and with rubber or cotton-covered cords. Please give your exact requirements for a prompt quotation.

TRIMM QUIET RADIO ADAPTER AND HEADPHONES

Permits operating headphones from



headphones from any radio or amplifier. Adapter connects to speaker coil. Permits operation of either speaker or headphones, or both at the same time. Headphones are very compact and light in weight. Ideal for hard-of-hearing. Bakelite shell and cap. With "Dependable" headphones, adapter, volume control, switch, phone plug and jack. Shpg. wt. 2 lbs. \$3.67.59-050. Type 647. As above but with Trimm.

TRIMM-ACME PHONES **DELUXE TYPE**

Sensitive and practical 'phones for every headset use. "Light as a feather." Each use. "Light as a feather." Each unit weighs less than 1½ ounces. total weight is only 6 ounces. Recommended especially for



especially for A ma teurs.

SWL's, hard-of hearing and multiple phone installations. Cap and shell are molded of bakelite with light-tension flexible headband. Cord is 5 ft. braid-covered. Phonetip terminals. Wt., 12 oz.

59-070. 2000 ohms. NET.......\$1.27
59-071. 4000 ohms. NET.......\$1.43

ACME SINGLE HEADSETS

A lightweight	single u	nit headp	bone, with
headband as dec 59-072, 100	scribed ab	ove. 8 oz.	78.
59-073. 200	0 ohms.	NET	85c

CAPS AND DIAPHRAGMS

59-012. Replacement diaphragms for any of the above Acme phones. NET EACH, 90 59-075. Replacement caps. EACH ... 24c

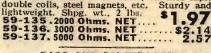
BRANDES SUPERIOR PHONES



Similar to the phones above, but with terminals inside case. Have metal cases, bakelite caps, double coils, steel magnets, etc. Sturdy and lightweight. Shpg. wt. 2 lbs. \$1.97 59-135.2000 Ohms. NET ... \$2.14 59-137.5000 Ohms. NET ... \$2.15

CAPS AND DIAPHRAGMS

BRANDES "ADMIRAL" PHONES





BRUSH CRYSTAL HEADPHONES TYPE BJ

Finest quality, high im-pedance, crystal type headphones, Hermetically headphones. Hermetically sealed eartridge in sost molded rubber jacket assures maximum protection against adverse climatic conditions. Has bakelite diaphragm with direct crystal drive. Yokeless cord design provides greater freedom and comfort. With standard adjustable headband and 5-foot all-rubber cord. Ruggedly bullt, yet light weight and extremely sensitive. Shog. wt., 12 oz. \$7.06



deal for hearing aids because of the extremely light weight. Excellent for multiple installations. With 5-foot cord, headband and comfort endseal. Wt., 8 oz. \$2.94

SINGLE PHONE TYPE A

Like 59-151 above, right, but with single phone, cord, and headband. 8 oz. \$2.94

High sensitivity phones of new piezo-electric design. For Amateurs, Short Wave Fans, measuring work, etc. Unusually high imperlance. Response is from 100 to 10,000 cycles. Conc-type diaphragm. For use indirect current cucuits, a small blocking condenser is necessary. Molded plastic case shaped for maximum comfort. Low power consumption, high quality reproduction. Weight, with headband and 5 ft. cord, only six ounces. Shog. wt., 12 oz. \$5.29

LORGNETTE PHONE TYPE A

Uses a single Type A phone as described above, attached to an adjustable telescoping Lorgnette-type handle. Handle may be extended from 12 to 17. Because of their light weight and the adjustable handle features, these phones are used extensively with hard-of-hearing aid systems. Units are supplied complete with Type A crystal earphone, 5-foot cord and Lorgnette handle. Shpg. wt., 10 oz. \$3.82



TRIMM HEADPHONES

FEATHERWEIGHTS

Very compact headphones, weighing only 4 oz. They have
forged magnets of
30% cobait steel,
bakelite shells and
caps, and adjustable
spring-steel headband. Diameter only
21/6". For Amateurs,
Aircraft, Hard-ofHearing, etc. 24,000
ohm type for weak
signals. 6 ft. moisture-proof cord. 1 lb.
59-000, 4000 ohm Standard.



59-000. 4000 ohm Standard. **59-001.** 24,000 ohm Special. **NET EACH**...

59-005. Sponge rubber ear cushions for above. Shpg. wt., I lb. PER PAIR. 35c

SINGLE PHONES

Single unit phone of flat disc type similar to above. Rubber-tipped headband. Ideal for theaters, etc. 6-ft, cord. 12 oz. \$3.67

LORGNETTE TYPE



Single unit featherweight phone with adjustable 14" telescoping metal-plastic handle. 6-ft. cord. 2000 ohms. Wt., 3 lbs. \$3.97

EXTRA CAPS AND DIAPHRAGMS

59-012. Extra Diaphragms for above. 9c 59-013. Replacement Caps. EACH. 38c

PROFESSIONALS'

A high quality standard type headphone. Used by Amateurs, SWL's, etc. Bakelite case and cap. 6-ft. cord. Termi-nals inside case. 1 lb.

59-020.3000 Ohms. 59-021.4000 Ohms. NET \$0 47 NET \$2.47



TRIMM "DEPENDABLE" PHONES

A high-grade, low-priced headset. A good dependable phone for quantity purchasers. Will give exceptionally efficient performance in any application. Bakelite shells and caps. Chrome steel magnets. 2000 ohms resistance. 6-ft. cord. Fabric-covered headband. 13 lbs.



59-025. \$2.00 59-031. Diaphragms for 59-020/1, 59-025/6 above, and 59-050 at left. EACH......9c

ARMY-NAVY TYPE HEADPHONES

Very sensitive. Meet both Army and Navy specifications. Impedance, 17,000 ohms. Brass shell with heavy-duty bakelite cap. 6 moisture-proof cord, phonetip terminals. Inside terminals. With leather headband. Bipolar magnets 2 lbs. 59-040.

NET \$10.05

NET \$10.95



59-041. Replacement Cap for above and for Western Electric headphones. EACH 53C 59-042. Extra Diaphragms for above. 12c 59-043. Rubber Phone Cushions for Professional, Dependable, and Army-Navy phones, above. PER PAIR...... 35c

Because of National Defense priorities, headphones on this and following two pages may be supplied with bakelite or other substitute parts. These changes will in no way impair the usefulness of the phones.

BEGINNERS' CRYSTAL SETS HEADPHON

AMERICAN BELL SILENT

PHONE KIT



A complete, con-venient kit that permits excellent headphone recep-

EASY TO INSTALL

Anyone can easily and quickly install the attachment by following the simple instructions which are supplied. A soldering iron is the only tool required. Leads go to terminals of speaker's voice coil. Headphone volume is controlled by the receiver's volume control. Supplied complete with everything required. Headphones are special low-impedance type (11 ohms), assuring finest tone. Light-weight headband, 6-ft. cord, and adapter unit with switch. Shpg. wt., 5 lbs.

59-169. With Headphones. NET \$2.09

59-170. Adapter Attachment Only. For use with any good headphones, but offers best results with low impedance (11 ohm) phones as described above. NET......90c



ENCLOSED TYPE PHONE ADAPTER

Compact, enclosed adapter for switching from speaker to headphones or for simultaneous use of both when used with low impedance phones. With hook for easy mounting.

59-170 above is for permanent installation on back of set only; 59-171 may be placed near set where convenient. Wt., 11b. \$1.03

ICA EARPHONE CUSHIONS



Finest quality soft rubber ear cushions. Scientifically molded to provide maximum comfort. Used by all leading airlines. Fit all types of phones. Wt., 1 lb.

10 PAIRS.....\$4.50

CANNONBALL MASTER HEADSETS

improved high-



59-126, 5000 ohms. NET\$2.43 59-127. Replacement bakelite cap for above headsets. NET. 18c 59-128. Replacement diaphragm for above headsets. NET 5c

BRUSH "HUSHATONE"

New, efficient pillow-type speaker. May be placed under pillow on bed, couch, or chair. Enables user to enjoy radio programs in comfort without disturbing others in the room. An invaluable aid and comfort in hospitals, sanitariums, etc. Housed in sponge rubber; may be safely dipped into liquid for sterilization. Exclusive Brush principle assures excellent reproduction. Volume is regulated by volume control on radio set. The "Hushatone" will work with any receiver. Measures only 4½ x 5½ x 1". With 84" rubber-covered cord. 2 lbs. \$4.41



\$4.41 59-160. NET.....

"DOOR-KNOB" TYPE EARPHONE

CUSHIONS

Scientifically molded of soft, flexible rubber to slip easily over all types of phones. Especially designed for ear comfort. Shop, wt., I lb. 59-180. PER PAIR. 23c 10 PAIRS.....\$2.07



LOW-PRICED PHILMORE KITS AND SETS POPULAR 1 TUBE BATTERY-SET KIT

83-010. Tunes from 13 to 530 meters covering Amateur. Police, SW. Code, and Broadcast bands. Employs plug-in type coils. Excellent reception; amazing volume. For students, experimenters, and for use in camps, farms, etc. In kit form, with coil for broadcast band. Uses one type 30 tube. Less tube, batteries, and phones. Wt., 3 lbs. NET. 31.27 83-011. As above but wired. Less tube, batteries and phones. \$1.25 83-012. Batteries. 1-1/2 volt "A": 1-45 volt "B". Wt., 4 lbs. 1.22 83-510. Klt of 4 coils (13 to 240 meters). Wt., 2 lbs. NET. 72c 9-296. Knight Type 30 Tube. Wt., 8 oz. NET. 41c



2 TUBE BATTERY KIT

Uses 2 type 30-tubes, and plug-in Broadcast band coil. Instructions, Less tubes, batteries, and phones, Wt. 4 lbs. \$ 1.49 83-021. As above, but Wired...\$2.25 83-022. Batteries. 1—1½ volt "A": 2—45 volt "B". NET........\$2.21

2 TUBE AC-DC KIT

This 2 tube kit operates from 110 volts, AC or DC. Uses 2 type 76 tubes (1 used as rectifier). With plug-in coil covering Broadcast band. Coil kit permits tuning Amateurs, Police calls, etc. Less tubes and phones. Easy to build. Wt., 5 lbs. \$2.25



I TUBE TINY TIM COMPLETE BATTERY SET

Compact and sturdily built 1-tube battery set. Assures undistorted and selective reception within surprisingly wide radius. Employs latest 1.4 V. tube. "On" and "Off" toggle switch gives positive contact. Housed in tiny airplane cloth-finished cabinet measuring 55% *25% *25% *21% and weighs only 1½ lbs. Uses 1—1E4G tube; 2—1½ V. flashlight-type batteries and single earphone—all self-contained. Inexpensive to operate. Wt., 2 lbs. \$3.45

WIRELESS PHONOGRAPH OSCILLATOR



Makes it easy to operate any record player or pickup through your radio set by remote control. No connection to your radio is required. Simply connect any record player or pickup to this wireless control to reproduce records through any radio. Will play through one or a dozen sets at a time. Always stays in tune, assuring excellent tone quality from your records. Control panel has off-on switch and is adapted for terminals or tip jacks. No wiring necessary. Compact, attractive brown crackle case. Size: 7 × 41/* × 34/. Complete with two tubes (35Z5GT and 12J7GT); 51/2-foot AC cord; 19-foot aerial wire for operating at distances greater than 10 feet; and simple instructions. For 110 V. AC or DC. Shpg. wt. 6 lbs.

83-095. NET.

NEW ICA PIED PIPER CRYSTAL SET

A modern type crystal radio that offers the utmost in crystal set reception and appearance. Finest quality appearance. Finest quality components are housed in handsome black bakelite case—a real beauty! Has crystal adjustment control and tuning dial on front panel. Unusually sensitive; provides clear, full-toned reception. Ideal for hospitals, offices, etc. It's light, compact, easily portable. Measures 6¼" x 4¾" x 2¼". Supplied less phones and aerial. Shipping wt., 3 lbs.

83-055. NET

83-055. NET.....

"PETER PAN" JR. CRYSTAL SET



TRIMM HEARING-AID CONTROL

For multiple hearing-aid installations in schools, theatres, churches, etc. Also used for radio systems in hospitals, etc. Permits adjustment of volume to individual hard-of-hearing needs. Resistance, 10,000 ohms. Small and compact, only 1x2x3". (Use Knight High Gain Amplifers for group-hearing use. See Public Address Section beginning on page 65.) Shop, wt., 1 lb. 59-060. Rrown Winkle Fig.



ning on page 65.) Supp. No., 159-060. Brown Wrinkle Finish. 59-061. Glossy Ivory Finish. \$ 1.91

PHONE AND SPEAKER CORDS

Copper tinsel inner conductor covered with closely-woven cotton braid. Tips are firmly anchored. Shipping wt., 3 oz.

SINGLE CORDS

59-200. 4 foot cord. Tips on one ends padelugs on other. For speaker or single shone.
59-201. 4 foot cord. Tips on both ends. The fact of the foot cord. Tips on both ends. The fact of the foot cord. Tips on one end. Tips on other. 5 foot cord. For use with phones.
59-205. Tips on both ends. 5 foot cord. To see the foot cord. The foot

CANNON RUBBER CORDS

Durable rubber double head-set cord, 6 feet long. Has tips on one end; spade-lugs on other. Shpg. wt., 1 lb. 59-210. NET.

HEADPHONES CRYSTAL SETS Accessorie

PHILMORE SETS "DWARF" I TUBE SET



One of the tiniest portable radios made. Measures only 5 ½ x 4 ½ x 3½ and weighs only 2 1 bs. Operates entirely from self-contained batteries. Covers standard broadcast band:

Covers standard broadcast band; has clear-reading dial, tuning and volume controls, "on-off switch. Very easy to tune. The "Dwarf" uses one low-drain type 1E4G tube and two 3 V. flashlight type batteries. Supplied complete with tube, batteries, and single earphone. Use antenna kit 83-100, listed at right below, for best results. Available only with accessories. Shpg. wt., 3 lbs. \$4.55

"SELECTIVE" CRYSTAL SET



This well-built set is especially designed to give maximum selectivity. Built with a tapped coil matched with a .00035 mfd. variable condenser. The reception on this set is loud and clear. It is exceptionally sensitive and very easy to tune. Has double connection posts making possible the use of two pairs of time. With dust-proof, glass-enclosed crystal detector. In crackle finish cabinet. Wt., 3 lbs. \$2.95

'MONARCH" CRYSTAL SET



sensitive and A sensitive and attractive crystal set. Tunes stations as far as 25 miles away with good tone and volume. Has dustproof, glass-guelased crystal crystal enclosed and engra

with bar-knob. Crystalline metal case. For aerial kits see right, below 1½ lbs. \$1.21

"SUPERTONE" CRYSTAL SET



Compact crystal Compact crystal set offers enter-tainment from stations within 25 mile radius with suitable aerial. Sensitive crystal enclosed in dust-proof plass casing Mounted on bakelite base. For best results use antenna or ac-

cessory kit at right below. 1½ lbs. 83-003. NET....

"Topnotch" CRYSTAL SET



83-051. "Topnotch" Crystal Set Kit. Complete kit for building above set. Ideal for beginners. Wt., 1 lb. NET.........\$1.09

I.C.A. LOW-LOSS CRYSTAL SET



AMERICAN-BELL HEADPHONES



Sensitive headphones with new inside terminals to avoid shocks or damaging shorts. Produced by one of America's leading manufacturers. Noted for their remarkable tonal fidelity and sensitivity. Lightweight, 'adjustable, braid-covered headband gives utmost wearing comfort and long life. Magnets are of high permeability alloy, providing exceptional power and long life. Solenoid coils are well insulated and firmly mounted in headphone shell. Caps are molded bakelite. Supplied with 4½ ft. cord. Ideal for use with crystal or battery sets as well as for all general-purpose requirements. Preferred by many Amateurs for both phone and CW reception. Shpg. wt., 1 lb.

STANDARD DUAL HEADSETS

New inside terminals eliminate shock. Diaphragm measures 21/4". Cords are mercerized cotton-covered tinsel-copper.

59-110. 2000 Ohm Headset. NET	\$1.05
59-111. 3000 Ohm Headset. NET	

SINGLE HEADPHONES

Improved inside terminal type. Ideal for hearing aids and crystal or battery sets. Clock-steel headband. With cord.

59-112. 1000 Ohm Headphones. NET	7	1.
59-113. 1500 Ohm Headphones. NET		

59-106. Quality bakelite exact-replacement caps for above headphones. NET EACH. 12c 59-105. Duplicate replacement diaphragms for above headphones. NET EACH. 5c

CRYSTALS & CRYSTAL DETECTORS OPEN DETECTOR **ENCLOSED DETECTOR**



Universal-joint on swivel arm provides quick, accurate adjustment on any point of sensitive crystal. Comes with sitive crystal. Comes with crystal. Wt., 8 oz. 52-000. EACH 14c 10 FOR \$1.26

FIXED DETECTOR

Extremely sensitive. Selected crystals are meter-tested and permanently adjusted. Housed in compact bakelitecase. Eliminates bother of continual adjustment for sensitive spot. Ready for use. 8 oz. 46c 52-001. EACH....46c



METER TESTED CRYSTAL

These crystals are laboratory tested on very sensitive meters. Crystal on very sensitive meters. Crystal is of genuine Galena. Fit all crystal 52-006. EACH. 12c





FEDERAL DETECTOR

This fixed detector is designed to give more stability to crystal sets and all reflex circuits. High-ly sensitive and permanently fixed. Mounted in small bakelite case with screw connectors.
Each carefully tested. Wt., 8 oz.
52-010. EACH......



MOUNTED CRYSTAL







CAT WHISKERS

Set of three. Correctly designed and made of the finest quality phosphor-bronze. Correct tension for all detectors. 5 oz. 9c 52-011. PER SET... 81c

'PHONE CUSHIONS

Ideal for those who wear headphones constantly. Made of finest soft sponge rubber. Fit all headphones. Wt. 12 oz. 28c 10 PAIRS. FOR. \$2.52



LOW-PRICED CARRON CRYSTAL SETS



THE "MIDGET"

Midget model crystal radio set built into a sturdy solid walnut cabinet. Unusually attractive in appearance. Average reception range covers about 25 mile area. Brings in programs clearly and distinctly without distortion. Provides economical radio enjoyment. Has spring action locator and station selector knob. Complete with specially constructed carphone and roll of ground wire. Size: 4½x35%x2½. Shpg. wt., 3 lbs. 83-080. Complete with \$1.65

83-081. Radio Set Only. NET 97. BAKELITE MODEL



Novel midget crystal radio with self-contained earphone provides low-cost radio pleasure. The latest in modern crystal set design. Very neat and compact in size. Complete set is housed in polished mahogany-color bakelite cabinet of modernistic streamlined design. Earphone fits conveniently into compartment in case. Average range is about 25 mile radius. Extremely sensitive adjustable crystal; one tuning knob controls reception. Weighs only 5 ounces; measures but 2½x4x1½". Supplied complete with carphone, aerial wire, and full instructions. Shpg. wt., 2 lbs.

83-082. NET \$1.76

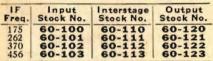
83-083. ACCESSORY KIT FOR CRYSTAL SETS. Includes headphones, aerial \$1.65 and ground wire, lead-in strip, lightning arrester, insulators, etc. Wt., 4 lbs. NET......

EW COILS FOR ALL PURPOSES

MEISSNER PRECISION-BUILT COILS

PLASTIC IF TYPE REPLACEMENT COILS





NET EACH......65c

NEW IRON CORE PLASTIC IF'S 60-130. 456 KC Input (16-6662) 60-131. 456 KC Output (16-6663) 97c

UNIVERSAL ADJUSTABLE FERROCART COILS



Permit exact duplication of defective RF, Ant., or Osc. colls. Inductance variable over wide range for tracking. Black crackle finish shield. Size, 1½x1½x2½°. Covers broadcast band. Shpg. wt., 12 oz.

UNSHIELDED TYPE

60-135. Antenna (14-1026)... 60-136. RF Coil (14-1027).... 60-137. Oscillator (14-1028). EACH 82.

SHIELDED TYPE

60-140. Antenna (14-7413)... 60-142. Oscillator (14-7560). 60-141. RF Coil (14-7558).... } s 1.29



COMPACT ANTENNA AND RF COILS

Compact high-impedance Litz-wound coils. Cover Broadcast band 545 to 1580 KC with 365 mmf. tuning condenser. Mois-ture-proofed coil forms, 5/27 diam., 1½/2 long. Black crackle shields, 1½/2 dia., 2" high. 8 oz.

UNSHIELDED TYPE 60-150. Ant. coil (14-1022). 60-151. RF coil (14-1023). EACH 29c

SHIELDED TYPE 60-155. Ant. coil (14-1024). 60-156. RF coil (14-1025). EACH 38c



OSCILLATORS

Compact, oscillator colla particularly designed for use with Pentagrid tubes. Freq. coverage. 545-1.580 KC. Exceptionally easy to mount. Each has bakelite base with lug terminals. Designed for use with 365 mmf. TRF variable condenser and a padder. Duo-lateral wound coils. 175 KC uses 900 mmf. padder; 456 KC uses 350 mmf. padder. Shields, 1½ diam., 1½ high. Wt., ½ lb.

UNSHIELDED TYPE

Stock No.	Туре	Freq.	EACH
60-160	14-3732	175 KC	50
60-161	14-4034	456 KC	
60-170	14-1033*	456 KC	

*Special oscillator coil for 6SA7.

SHIELDED TYPE

60-165 14-4242 14-4243 175 KC 62c

MEISSNER IF REPLACEMENT MANUAL



New IF Replacement Manual gives the Serviceman valuable service data never before published. Lists replacement transformers for 9,891 radios. Gives IF frequencies and special connection notes. 254 pages. Wt. 11b. 25c.

FERROCART IRON-CORE IF TRANSFORMERS

Incorporates a finely powdered iron-core with each particle insulated from the others, resulting in a higher "Q." Gain and selectivity are nearly twice that of air-core types. Ideal for replacements or original installations. Double-tuned from top; mica insulated. Black Crackle Shield, 1½" square, 3½" high. Wt. 1 lb.



Freq.	Input Stock No.	Interstage Stock No.	Output Stock No.
	60-180 60-181 60-182*		
	Interstage.		\$1.29

DUAL BAND COILS

Short-Wave and Broadcast coils for serviceman and experimenter. Shielded types have mica-dielectric trimmers mounted on shield. Use with 456-465 KC IF systems. For 365 mmf. TRF variable condensers. Wt., 12 oz.



BROADCAST AND POLICE

Covers 530 to 1550 KC and 1.5 to 4.48 MC.

SHIELDED			UNSHIELDED		
Stock No.	Type	Use	Туре	Stock No.	
Stock No. 60-200 60-201 60-202	14-7467	Ant.	14-7482	60-205	
60-201	14-7471	RF	14-7483	60-206	
60-202	14-7475	Osc.	14-7484	60-207	

NET \$1.74 | NET | \$1.21

60-215. (22-5211) Dual Adjustable Padding Condenser. Each section 200-600 mmf. Correct padder for oscillator coils 35c

60-216. (24-8265) 3-Gang, 2-Position Switch. For use with coils listed above. For making front-of-panel band changes. 97c

THREE BAND COILS

Similar to 2 band coils above, but have 3 band coverage. Trimmer condenser bank mounted on one side for ease of adjustment. Supplied in the most popular bands. Fully shielded for utmost stability.



BROADCAST, POLICE & SW

For use with 450 mmf. condenser. Range: 170-555; 56-171; 16.2-57.7 meters. Wt., 1 lb. 60-220. Ant. (14-1012) EACH 60-221. RF. (14-1013) \$2.26 60-222. Oscillator (14-1014) \$2.26 60-225. Padding Cond. Kit (22-5201)82c 60-226.3-Gang. 3-Pos. Switch. \$1.29

BEAT FREQUENCY **OSCILLATORS**

Especially designed units for use in incorporating beat-firequency oscillators in all-wave or short-wave receivers not already so equipped. Will provide "beat-note" tuning for locating weak signals, or for code reception. Can size, 11/8" square x 31/2". With pitch control knob on top. Mica-insulated trimmer. 1 lb.

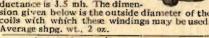


120

60-230. 456 KC (17-6753) NETS 1. 15

REPLACEMENT PRIMARY WINDINGS

High-impedance replacement type primary windings. Permit easy, low-cost repairs. Antenna inductance, 1.7 mh., RF inductance is 3.5 mh. The dimension given below is the outside diameter of the coils with which these windings may be used. Average shop, wt. 2 oz.



Stock No.	Inside Dia.	Туре	Stock No.	Inside Dia.	Туре
60-250 60-251 60-252	3/8	Ant. RF Ant.	60-255 60-256 60-257	113/16 115/16 115/16	Ant. Ant. RIF
60-253 60-254	5/8	RF Ant.	60-258	13/16	Ant.

POPULAR KNIGHT COILS

STANDARD IF TRANSFORMERS

Standard high quality, high-gain double-tuned air-core, IF transformers of superior design. Ideal for replacements and for set building. Lattice-wound primary and secondary tuned by mica-insulated compression type condensers from top of can. RMA color-coded leads. Metal cans measure 1% square and 3¼ high, Wt., 1 lb.



IF	Stock No.	Interstage	Output
Freq.		Stock No.	Stock No.
175 KC	60-500	60-505	60-511
262 KC	60-501	60-506	
456 KC	60-502	60-507	
NET			59.

CENTER-TAPPED OUTPUTS

KNIGHT IRON-CORE IF TRANSFORMERS

These compact units have high permeability iron-cores and low-loss windings to provide maximum sensitivity and selectivity. Double-tuned from top with mica insulated trimmers. Shield can measures 136"x13/2"x3/2". Mounting centers, 13/6". With RMA color-coded leads. Wt., 1 lb.



456 KC 1500 KC	Input No. 60-530 60-535	Output No. 60-531 60-536
NET EACH		98

HIGH-IMPEDANCE LITZ COILS



Bank-wound Litz wire, With 370 mmid. condenser covers 1500 to 540 KC. Shielded type size. 2½" high, 1½" dia: unshielded, 2½" high, ½" dia. High-impe-dance primaries. 6 oz.



Unshielded 60-550 Ea.26c 60-556 Ea.33c

Shielded

4-TUBE KITS 1 Ant. & 1 RF

5-TUBE KITS 1 Ant. & 2 RF 60-560. Unshld. . 51c 60-565. Unshld. . . 76c 60-561. Shided. . . 65c 60-566. Shided. . . 97c

HIGH-GAIN TRF COILS

Same as above, but with low-impedance primaries. High sensitivity. Shpg. wt., 6 oz.

Type | Unshielded | Shielded | Ant... | 60-570 | Ea. 28c | 60-576 | Ea. 36c | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 36c | Co. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576 | Ea. 576

COIL KITS

4-tube kit has 1 Ant. and 1 RF coil. 5-tube kit has 1 Ant. and 2 RF coils. With diagram. 4-TUBE KITS

60-579. Unshielded Coil Kit. NET... 55c 60-580. Shielded Coil Kit. NET... 71c

5-TUBE KITS

60-583. Unshielded Coil Kit. NET .. 82c 60-584. Shielded Coil Kit. NET ... \$1.06

MIDGET SOLENOID COILS

Wound with enameled wire on special tubing 11/4" long and 1/4" in diameter. For replacement in midget TRF sets. Primaries are adjustable. Unshielded. Tapped coils permit amateur and police reception. For use with 370 mmf. condenser. 540 to 1750 KC. Used in modern kits. Av. wt., each coil, 8 oz.



60-590. RF Coil. 60-591. Antenna Coil. NET 15c 60-592. Set of 2 Coils. NET.... ...29c 60-593. Tapped for 1500-4000 KC Band. 1 Ant. & 1 RF Coil. Shpg. wt., 1 lb. NET, per set of 2 Coils. 44c

162 FOR COMPLETE INDEX SEE PAGES 198-199

EACH....

COILS · COIL FORMS · COIL KI



MILLER IRON CORE RF COILS

Small size RF coils, especially desirable for use in auto or other sets where a high-gain coil of small physical size is required. Shield cans 11/4" dia. by 2" high. Tunes 540 to 1600 KC with 365 mmf. condenser. Wt., 8 oz.

60-750. Antenna Coil. EACH 88c

60-760. Oscillator Coil (465 KC) (Use 400 mmf. pad.) NET..... ...88.

ANTENNA & RF COILS



High-gain fully shielded coils for use with screen grid tubes. High impedance primaries. RF coil has primary at 90° angle to provide uniform amplification throughout entirerange. For 365 mmf. condenser. 176" dia., 3" high. Tune 540 to 1750 kC. Shpg. wt., 8 oz. 60-755. Antenna Coil. 60-756. RF Coil. EACH 59c



ADJUSTABLE PHONO-OSCILLATOR COIL

For use in building wireless record players. Top adjustment permits selection of clear broadcast-band frequency. Coilis impregnated and housed in metal can, 1½ square x 3½ high. With wiring diagram andfull, easy-to-followinstructions. Shpg. wt., 12 oz. 60-640. NET ... 97c



UNSHIELDED TYPE PRESELECTOR COILS

High-gain band-pass preselector coils for the broadcast band. Litz-wound. Range, 1500-540 KC. with 365 mmf. condenser and 1715-550 KC. with 410 mmf. Wt., 6 oz. 60-666. For 410 mmf. EACH......58c

RADIO FREQUENCY CHOKES



AIR CORE Compact, silk-covered wire, RF chokes. High impedance, lattice-wound type. Thoroughly impregnated for troublefree service. 6 oz.



Mhy.	Shielded
21/2 21/2 51/2	60-621 EACH 29c
8 10 16	60-622 60-623 60-624 EACH 34c
30	60-625 42c
60 80	60-626 60-627 NET EACH46c
	2½ 2½ 5½ 5½ 8 10 16 30

*Polarized section winding construction.



IRON CORE

New High-Q RF chokes; may be ased in place of air-core chokes for higher efficiency. Reduce number of turns, thus lowering distributed capacity. Wt., 6 oz.

No.	Mhy.	NET	No.	Mhy.	NET
60-650 60-651	31/2	35c	60-654 60-655	60	48c 54c
60-652	10		60-656 60-657		61c



MEISSNER COIL DOPE

For winding coils, see listing of magnet-wire and bakelite tubing on pages 169, 184, and 186.

PLUG-IN TYPE COILS



Space-wound coils for use with 140 mmf. condensers. Forms are smooth bakelite, 1¼' di-ameter and 2¼' ameter and 21/4' high; have rim-top. kets. Supplied with

Bases fit standard tube sockets. diagrams. Shipping wt., 2 lbs.

4 PRONGS — 2 WINDINGS

60-670. Short-Wave Coil Kit. 4 coils cover range from 9.5 to 217 meters. 98c

6 PRONGS - 3 WINDINGS

60-675. Short-Wave Coil Kit. Primary, secondary, and tickler windings. Cover 9.5 to 200 meters. 4 coils in kit. \$1.52

60-676. Broadcast Coil Kit. 2 coils cover 190 to 550 meters. **98**c

LOW-LOSS RIBBED TYPE



4 PRONGS-2 WINDINGS

60-680. Short Wave Coil Kit. Set of four coils cover 9.5 to 217 meters.

Grid and plate windings. NET.....\$1.29

60-681. Broadcast Coil Kit. \$1.03

BAKELITE COIL FORMS

RIM TYPE



Low-loss forms with high dielectric strength. Molded rim handle for easy grip. 1\(^4\)/6 dia., 2\(^4\)/6 high. 4 oz. Stock No. 60-700 60-701 60-702 60-703 Prongs EACH 11c 675



- SMALL RIBBED TYPE



Genuine molded bakelite; 1\% a diameter, 2\% a high. Have molded ribs for low-loss winding. Wt., 4 oz. Stock No. Prongs NET EACH 5 6 16c

LARGE RIBBED TYPE

Large ribbed coil forms of molded bakelite for winding low-loss coils. 15/6* diameter with 23/4* winding space. Molded rim at top. 4 oz. Stock No. Prongs NET EACH

60-720 60-721 216 60-722 60-723 7L. SPECIAL7C

MORRIS COIL WINDER



This Universal Coil Winding Machine will wind Honeycomb, Spiderweb, and Solenoid coils in different widths and diameters. Handles various sizes of wire to make coils that equal factory accuracy. Recorder with adjustable pointer accurately counts number of turns on coils. An ideal machine for the Experimenter, Amateur or small factory. Operates by hand power. Shigh, wt. 4 lbs. \$5.10

FREQUENCY MODULATION COILS BY CARRON

DISCRIMINATORS

For Frequency Modulation reception. Operates at 4300 KC to offset images in FM band. Sizes: Standard, 1½" x 1½" x 2½"; Deluxe, 1½" x 2½" x 2½". Deluxe unit features air-tuned secondary, ceramic forms, DC choke for maximum stability. Shielded. 10 oz. \$1.15 60-900. S414. Standard. NET....\$2.59

I. F. COILS

Size, 11/4" x 11/4" x 21/4". Shielded. 4300 KC. 60-905. S411. 1st IF. 60-906. S412. 2nd IF. 60-907. S413. 3rd IF. EACH... \$1.06







REPLACEMENT MAJESTIC I. F. TRANSFORMER COILS

Will fit in original Majestic shield cans. Well-constructed. Moisture-proof. Less tuning con-denser and can. Av. shpg. wt., 4 oz.

Stock No.	Majestic Part No.	Model	NET
60-915	4428	15, 15B, 150	\$0.49
60-916*	4428	15, 15B, 150	1.94
60-917	8384	55	.44
60-918*	3908	20	1.62
60-919	6506	55	.65
60-920	6250	200	.65
60-921	6127	210	.65
60-922	7812	390, 310, 330	.56
60-923	10148	460	.44
60-924	10253	460	.65
60-926	11014	800	.56
60-925	8857	Primary coil us	
as		coil in Models	

336, 331, 330, 461, 520, 85.... .50 *Complete assembly in shield can.

REPLACEMENT COILS FOR FAIRBANKS-MORSE RADIOS

Coils supplied without shield cans or trimmers. Fit perfectly into old shields without drilling.

Stock No.	Original Part No.		Used in Chassis	NET
60-935	503-3	Osc.	7A. 9A	\$1.03
60-936	502-2	RF.	9A	1
60-937	502-1	RF.	SA. SAT	ST EA
60-938	501-5	Ant.	9A	\$1.59
60-939	5978	RF.	72-73	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
60-940	503-6	Osc.	12A	1.03

WE CAN SUPPLY exact duplicate or suitable replacement coils for any set. When ordering, state name, model and type of set, where coil is used, bands covered, condenser type, tubes used, etc. Cost depends on coil specifications. Send old coil for quotation or send deposit for replacement without delay.

THREE CIRCUIT TUNER

Tuner has primary, secondary, and variable tickler windings. Designed for use with a 350 mmf, variable condenser. Pigtail tickler connections assure posttive contact at all times.



TAPPED FOR SHORT WAVE

Both the three circuit tuner and the RF coil are tapped for short wave as well as standard broadcast reception. Sipp. wt., 1 lb. 95c 83-500. Tuner. NET. 95c 83-501. RF Coil to match Tuner. 37c



TUBE-BASE TYPE SHORT-WAVE COILS

VARIABLE CONDENSERS ACCESSORIES

USL MIDGET CONDENSERS



Ideal for Short Wave use. ¼" shaft extends ¼" from front of condenser. ¾" bushing allows rigid monnting on panels up to ¼" thick. Single hole mount; fits ¾" hole. Size with plates open, 1¼" x 1½". Average shpg. wt., 8 oz.

Stock No.	Plates	Min. Mmf.	Max. Mmf.	NET
61-000	3	3	15	45c
61-001	5	5	30	49c
61-003	6	6	45 60	53c 57c
61-004	11	6	80	61c
61-005	14		100	65c
61-006	18	8	125	69c
61-007	20	8	140	71c

DOUBLE-SPACED MIDGETS

61-015 | 10 | 6 61-016 | 16 | 7 71c

SHAFT FITTINGS







1% 1

Split Bushing Coupling

COUPLINGS and EXTENSIONS

Couplings are for extending shafts of volume controls, condensers, etc., or for ganging single units, even when shafts are not of same diam-eter. Extenders are for decreasing or increasing shaft diameter and for extending shaft length.

Stock Insulated		Kind	Size
60-350	60-360	Coupling	1/4x1/4" 3/8x3/8" 1/4x3/8" 1/4 to 1/4" 1/4 to 1/4" 1/4 to 3/8"
60-351	60-361	Coupling	
60-352	60-362	Coupling	
60-355	60-365	Ext.	
60-356	60-366	Ext.	
60-357	60-367	Ext.	
10 For	100 For	NET	10
90c	\$8.50	EACH	

BRASS AND FIBRE SHAFTING

For shaft extensions or replacements. 1/4" dia.

SPLIT BUSHING

PANEL BEARING ASSEMBLY



For use with rigid or flexible couplings for mounting volume controls, etc., away from the panel. Use these panel bearings for reducing body capacity in Made of brass. Take panels up to 1/6" thick. For 1/4" shafts. Supplied with 2 fibre insulating washers. Shpg. wt., 1 lb.

60-385.	Overall length 3".	NET 1 9	c
60-386.	Overall length 6". Bearing only.	NET 26	ic
60-390.	Bearing only.	NET 5	ic.

CONDENSER COUPLING



TRIMMER CONDENSERS

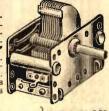
60-331. Ceramic Type. Has a ceramic base instead of bakelite. Low-loss. Measures ½" x ½" x ½".

10 for 81c. NET EACH.

KNIGHT COMPACT PRECISION CONDENSERS

SINGLE TYPE

General-purpose com-General-purpose compact single gang condensers. Low-loss bakelite insulation. Measure 31/6*x11/8' shaft. Very rigid, sturdy construction throughout. Capacity increases cleckwise. Supplied less trimmers. Wt., 1 lb.



CONTROL OF THE PARTY OF THE PAR	
61-050. 50 Mmf	NET FACU
61-051. 100 Mmf	MEI EACH
61-052. 140 Mmf	2.72
61-053, 240 Mmf	5108
61-054. 370 Mmf	
61-055. 450 Mmf	and the same

61-056. 0005 Mfd. A popular type used extensively in Short-Wave and All-\$1.10

370 MMF. GANG CONDENSERS

Easy-to-mount and com-Easy-to-mount and compact condenser assemblies of superior design and construction. Trimmers mounted on both sides. Plates slotted for accurate alignment. Maximum capacity, 370 mmf. Increasing clockwise rotation. ¼" shaft extends 1½". End shields, 2½ x 1½". Can be used as tuning condensers in set-builders kits. Wt., 2 lbs.



61-070. \$1.32 | 61-071. \$1.91

450 MMF. GANG CONDENSERS

Capacity increases clockwise. Trimmers on both sides. Threaded hole mounting. End shields, 21/6"x1/2". Shaft, 11/2"x1/4". Wt., 2 lbs.

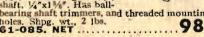
61-075. \$1.32 61-076. \$1.91

140 MMF, GANG CONDENSERS

Ball-bearing shaft. Easily removed trimmers mounted on both sides. End measures, 1½" x2½". Shaft, 1½"x½". Shpg. wt., 2 lbs.

61-080. \$1.26 | 61-081. \$1.85

COMPACT 370 MMF. 2 GANG CONDENSER



MEISSNER CONDENSERS

These precision-built three-gang variable con-densers are rigidly constructed to give the very highest quality performance possible. Counter-clockwise rotation increases the capacity. Average shipping weight is 3 lbs.

3-GANG CONDENSERS

DOMING COMBENSERS					
61-030.3	65 Mmf.	With trimmers, .\$2	2.59		
		Less trimmers			
61-035.4	10 Mmf.	Less trimmers	2.47		
61-036	150 Mmf		50		

4-GANG CONDENSERS

61-040. 365 Mmf. With trimmers. Clockwise rotation increases capacity. \$3.23

DIAL DRIVE RUBBERS

Box of 25 assorted dial-drive friction-rubbers in eight different types. Used in such sets as RCA, Atwater Kent, Stewart Warner, etc. 11b. 60-400. NET. 84c



NON-SLIP DIAL COMPOUND

A special powder for aiding repair of all belt and cord driven dials. Prevents slipping. Easy to apply. This compound will save you time and money in dial repair work. Shpg. wt., 1 lb.





LOW-LOSS CERAMIC-INSULATED MIDGET CONDENSERS

Compact and efficient. For Compact and efficient. For short wave sets or transmitters. Ceramic-insulated to prevent RF losses, high voltage breakdowns, and insure moisture-proofing. Non-corrosive plates. Wiping phosphor-bronze rotorcontacts. Mounts in 1/4 hole. Size with plates open. 1/4 x 1/4". Brass shatt. 1/4" diameter, extends 1/4" from back of panel. Shpg., wt., 10 oz.



Stock No.	Max. Mmf.	Min. Mmf.	No. of Plates	NET
61-100 61-101		3,5	3	53c 56c
61-102 61-103	50	4 6	11	59c
61-104 61-105	100	6	14	68c 73c

DOUBLE SPACED UNIT

61-110 35 | 6.5 | 10 | 73c

TRIMMER AND PADDER CONDENSERS

For HF, IF, and

Oscillator circuits. First quality, mica-insulated; Isolantite base. Screwdriver adjustment. May be shunted by fixed

mica condenser to increase maximum capacity. Solder lug type connectors. A is single type; B is double trimmer. Shpg. wt., 3 oz.

TYPE A

No.	Mmf.	NET	No.	Mml.	NET
60-300	25-100	15 c	60-306	325-1000	33c
60-301	75-225			400-1200	
60-302	125-350			500-1400	
60-303	175-500	23 c	60-309	600-1600	42c
60-304	225-650			700-1800	
60-305	275-825	31c			

TYPE P

CO 24E	20.00	45.	. CO 210	200 600	1 22-
60-315	50-180	186	60-319	300-675	386
60-317	100-300	21 c	60-321	325-850	42c
60-318	20-90 50-180 100-300 170-410	31 c			

JFD DIAL BELT KITS

Kit of 25 contains one each of the most popular numbers; kit of 100 includes 90 different types to fit over 900 sets. Each kit supplied with free steel cabinet, belt scale and JF1) book of belt and ballast replacement data for over 1100 standard radio



EXACT DUPLICATE BELTS

60-450. For Majestic No. 1-70, 71, 72. 60-451. For All Philos Sets.....

We can supply any single belt for 15c each. Order by JFD part number or send in the defective belt, with price and postage, for correct duplication.

BRAIDED SILK DIAL CORD

Durable dial-cable of pure braided silk, with water-proof finish. A real necessity for the well-stocked shop.

necessity 10	CARC IT CIT L	rocked shot
Stock No.	Length	NET
60-441	5 ft.	\$0.22



PHOSPHOR BRONZE DIAL CABLE

42 strands—6 cables each of 7 strands of phosphor bronze wire, around linen-core; or braided from 16 strands of fine bronze wire woven together. Won't slip, stretch or chafe.



42 Stranded		Lucin and and	16 Braided	
No.	NET	Length	No.	NET
60-421	\$0.19	5 ft. 25 ft.	60-431 60-432	9c 26c
60-423	1.25	50 ft.	60-433	41c
60-424	2.25	100 ft.	60-434	65c

YOU CAN DEPEND ON ALLIED FOR EVERYTHING IN RADIO

NING DIALS · PILOT LIGHTS



4

GENUINE G.E. MAZDA PILOT LIGHT BULBS

General Electric Mazda pilot light bulbs. Famous for quality. These lamps are made to operate on the voltages indicated. Excellent for all pilot lamp requirements. Will give long dependable service. Buy stand-ard packages of 10 and save money.

Stock No.	Type	Volts	Amps.	Each	10 for
52-305	40	6-8	.15	90	\$0.54
52-306	41	2.5	.50	9c	.54
52-307	42	3.2	.35	12c	.71
52-308	43*	2.5	.50	9c	.54
52-309	44*	6-8	.25	9c	.54
52-310	45*	3.2	.35	12c	.71
52-311	46	6-8	.25	9c	.54
52-312	47*	6-8	.15	9c	.54
52-313	48	2.0	.06	15c	.88
52-314	49*	2.0	.06	15c	.88
52-315	50†	6-8	.20	10c	.59
52-316	51*+	6-8	1.0	7c	.41
52-320	55*†	6-8	.40	7c	.41

*Indicates miniature bayonet base. †Indicates small round bulb.

511. A special 10 watt bulb designed for the RCA-VICTOR R-32. For use on 115 volts. 52-348. 10 For \$1.35. EACH...... 15c



Miniature base pilot light sockets with lug connection mountings. Both bayonet and screw types. For all radio requirements. Wt., 4 oz. 52-400. Type A. U-type clip-on mounting. 52-401. Type B. Spade-bracket mounting. 52-402. Type C. Straightclip-onmounting. 52-404. Type D. Bayonet Shell Type. 52-404. Type D. With U-style clip as on A. 10 For 45c. 100 For \$4.05. 10 For 45c. NET EACH...

VALUES IN MODERN DIALS

KNIGHT-CROWE SLIDE-RULE



4" RADIO DIAL



63/4" SLIDE-RULE DIAL

Attractive new dial, 63/4" x 315/6". Universal scale, calibrated 55-150, 150-55, 0-100, 100-0, on gold face. 12 to 1 ratio drive. With escutcheon and pilot light socket. Fits either 3/6" or 3/4" shafts. Requires panel opening 23/6" x 55/6". For SW or standard broadcast. Less pilot light bulb and knob. Shpg. wt., 2 lbs. \$2.29



MIDGET SLIDE-RULE

A beautiful and compact new slide-rule dial. Measures only $4\frac{1}{4}$ " x $2\frac{1}{4}$ " overall. Panel opening required, $1\frac{1}{6}$ "x $3\frac{1}{2}$ ". Has universal scale calibrated 55-150, 150-55. Black letters on beige background 8 to

150-55. Black letters on beige background. 8 to 1 drive ratio. Fits 3/8" or 1/4" tuning shaft. Escutcheon and 2 light sockets are included. Pilot light bulbs and tuning knob are not supplied. Shpg. wt., 1 lb. \$1.88

5-INCH ULTRA-MODERN

RADIO DIAL

An airplane-type dial with black figures on gold foil, Scale, 41/4" x 31/2". Calibrated 0-100; 100 to 0; 0 to 10; 10 to 0. Ideal for general experimental use. 12 to 1 in 360". Bronze escutcheon. Positive cord drive oral experimental use. 12 to
1 in 360°. Bronze escutcheon. Positive cord drive
with take-up spring. For
½" or ½" shaft. With dial
light socket. Shpg. wt., 10 oz.
55-303. NET......



91/4" SLIDE-RULE DIAL

Slide-Rule dial, 9¼° long by 5¾6° wide. Requires 4½x8½6° opening. Universal

opening. Universal scale calibrated. 55-150, 0-100, 100-0, 150-55. Has bushing to fit 3/8" or 1/4" shaft. 20 to 1 drive ratio. With escutcheon and 2 pilot light sockets. Wt., 2 lbs.

55-304. NET.....



A friction-drive dial with a tuning ratio of 4 to 1. Dual translucent dial calibrated with a universal scale, 0-100 with a universal scale, 0-100 and 100-0. With escutcheon, glass bezel, and pilot light socket. Fits 3% or ¼" shafts. Shipping wt., 1 lb. 55-310. NET ... 85c



55-311. 3½° AIRPLANE DIAL. A positive-action, smooth-tuning dial. Has dual translucent universal scale with glass bezel. Tuning ratio, 6 to 1. Calibrated 0-100 and 100-0. Has bushing for ½° or ½° shafts, pilot light socket and escutcheon. Shpg.wt., 1lb.\$1.09

55-312. 4" AIRPLANE DIAL. Similar to above but larger in size. Tuning ratio 9-1. Has two pilot light sockets. 2 lbs. \$1.29

55-313. 51/8" AIRPLANE DIAL. Like above. Ideal for console sets. Has 2 light sockets. Ratio, 11-1. Wt., 2 lbs. \$7

KURZ-KASCH VERNIER DIALS

Al ways popular with builders and experimenters. Made of black bakelite. Universal scale reads 0-100-0. Smooth positive friction-drive action; no backlash. Fit 1/4" shaft. 4" dial has 13 to 1 ratio, for extra critical tuning. 3" size has 9 to 1 ratio. Shpg. wt., 1 lb. 55-320. 4" Diameter. NET......



79 55-321. 3" Diameter. NET....

MOLDED DIALS

Attractive black bakelite dials with large calibrations in white. Easy-grip 2" knob on 3" dials; 2\%" knob on 4" dials. Calibrations carried to the outer edge of dial to permit extremely accurate settings. All types listed below fit \%" shafts. Shpg. wt., 8 oz.



4 INCH DIALS

3 INCH DIALS 55-330. 0-100. 55-331. 100-0. NET 23c

NET ____ 260

ICA MINIATURE DIALS



Beautiful chrome silver dials with black etched numerals. For instruments, amplifiers, receivers, etc. Equipped with finger grip black knob. Only 15% diameter. Fit 1/4" shaft. Ranges from 0-10 over 180 or 270 degrees. Shpg. wt., ½ lb.

55-340. 0-10 in 180° 55-341. 0-10 in 270°. EACH 44

165

PILOT LIGHT BRACKETS, JEWELS, DIAL BELTS



1" JEWEL BRACKET

For transmitters, test equipment, etc. Standard bulb replaceable from front. 1½" long; requires 1 inch mounting hole. Less bulb. Shpg. wt., 5 oz.

A STATE OF THE PARTY OF THE PAR		THE RESERVE AND ADDRESS OF THE PARTY OF THE	
Color	Bayonet	Miniature	Candelabra*
Red		52-430	
Green		52-431 52-432	
Amber	34-422	32-432	32-442

*For 115 volt service. 52-349. 115 V. bulb for candelabra. Ea. 15c

1/2" TYPE-MINIATURE SCREW BRACKET 52-450. Red. 52-452. Amber. 24c 52-451. Green. NET EACH...... 24c

UNDERWRITERS' APPROVED TYPE



115 volt pilot light assembly. Porcelain and metal construction. 1" hole mounting. Bulb removable from front. Chrome-finished jewel holder. Without bulb. Shpg. wt., 5 oz.

52-460. Red. 52-462. Amber. 73c 52-461. Green. NET EACH...... 15c 52-349. 115 V. Mazda Bulb......... 15c

1/2" AV 19 AVIATION TYPE



Mounts in 3/4" hole in panels up to 3/4" thick. Has insulating washers. Uses any miniature tubular bayonet base lamp. Lamps replaceable from the front. Glareless jewel; chrome-finished holder. Less bulb, 21/2 in. long. 6 oz.

52-465. Red. 52-467. White. 84c



BULB REMOVER

52-550. Rubber tool for removing or installing standard type and candelabra pilot lights. Will loosen the tightest bulb. Wt., 8 oz. NET. 24c

1/2" JEWELLED BRACKETS

Visual indicators for use on power amplifiers, relay racks, etc. Socket takes reg-ular pilot light bulbs. Single hole mounting. Shows when your equipment is "on." With jewel. 5 oz.



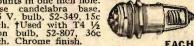
Miniature Base No.	Bayonet Base No.	Color	NET
52-475	52-480	Red	11.
52-476	52-481	Green	
52-477	52-482	Amber	

JEWELS FOR PILOT LIGHTS

Require 1/2" hole. 1/16" thread shank. 3/8" long. 52-490. Red. 52-492. Amber. 52-491. Green. NET EACH......

1" 110-VOLT PILOT AND NEON LIGHT ASSEMBLY

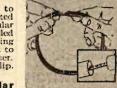
Mounts in one inch hole. *Use candelabra base, 115 V. bulb, 52-349, 15c each. †Used with T4 ½ neon bulb, 52-807, 36c each. Chrome finish.



52-500.* Red. 52-502.* Amber. 54c 52-501.* Green. 52-503.† Neon.

WALSCO UNIBELT

Adjustable dial belt to fit any dial. Sizes listed will cover all popular replacements. Installed quickly without taking dial apart—just cut to size and push together. Will not stretch or slip. Shpg. wt., 8 oz.

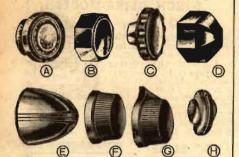


60-470. Popular Unibelt Kit. Contains 10 belts assorted, most used sizes. \$2.32

60-471. 63/4 to 10" size. 60-472. 101/8 to 135/6" size. 60-473. 147/6 to 175/8" size. 60-474. 195/8 to 223/4" size.

KNOBS AND SWITCHES

POPULAR MOLDED KNOBS



Durable molded knobs. Fit 1/4" shafts. Equipped with set screws. Type "G" has pointer. Types B. D. F. and H are adaptable as midget set knob replacements. *For knurled shaft. 2 oz.

Stock	William !	Mary	- 1,-7404	NET	10
No.	Fig.	Diam.	Color	Each	FOR
55-010	A	1"	Walnut		
55-011	A	13/8"	Walnut	7c	56c
55-015	В	15/16"	Walnut	10	000
55-016	В	13/16	Walnut	1	
55-020 55-025	P	33.	Wainut Black		
55-026*	3	3/4"	Black	6c	48c
55-027	оончененено	3/4	Walnut	00	700
55-028*	E	3/4"	Walnut		
55-029	E	3/4"	Ivory	7c	56c
55-030*	E	3/4"	Ivory	100	300
55-035	F	11/16"	Black	6c	48c
55-036 55-040	F	11/16	Walnut	4	
55-041	G	11/16"	Walnut	6c	48c
55-045	H	11/8	Black	1	
55-046	Ĥ	11/9"	Ivory	00	
55-047	H	11/8"	Red	9c	72c
55-050	000	13/4"	Black]	
55-051	C	1/8"	Ivory	6c	48c
55-052	C	1/8"	Red	100	700



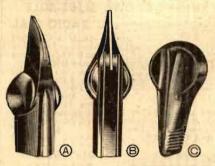
DELUXE DIAL PLATES

Single hole mounting. Beautiful black and red color combination on light metal background makes polished markings stand out. Size: 1½" x 2½". Mounting hole, ½" dia. Wt., 2 oz.

55-161.	Bass
55-162.	Phono 1
55-163.	Bass Treble
55-164.	Microphone 1
55-165.	Microphone 2
55-166.	Microphone 3
55-167.	Microphene 4
55-168.	Phono 2
55-169.	Dual-Phono
55-170.	Master Gain

55-171. Microphone-Phone 55-172. Plain 0-10

STREAMLINED BAR KNOBS



Modern black or red knobs for test instru-ments, amplifiers, etc. Fit 1/4" shafts. Recessed set screws. Average shipping weight, 4 oz.

Stock No.	Fig.	Size	Color	NET Each	10 FOR
55-070 55-071 55-072 55-073	A A A	2" 2" 11/4" 11/4"	Black Red Black Red	7c 8c 6c 7c	56c 64c 48c 56c
55-074 55-075 55-076 55-077	ABBCC	1 1/4" 2 1/4" 1 5/8" 1 5/8"	Black Black Black Red	5c 7c 7c 8c	40c 56c 56e 64c

POINTER KNOB

Black 1½" bakelite knob. Arrow engraved on face. Fits ½" shaft. For general and commercial use. Brass insert with set screw.

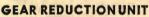
55-150. 10 FOR 72c. EACH....



2 SPEED PLANETARY DRIVE

Auxiliary speed reducer. Mounts on condenser back of panel or on dial knob shaft. Ratios 5 to 1 and 1 to 1. Fits 1/4" shaft. 1/2 lb.

55-180. \$1.32



6 to 1 ratio. For condenser not equipped with reduction gear. Has anti-backlash spring. 1/4 drive shaft. Set screw holds condenser shaft firinly. For test instruments and short wave sets. 10 vz.

55-190. For 1/4' dia. shaft. } EACH 44c

DIAL PLATES WITH KNOBS

Professional dial Professional dial plates in silver-grain satin. Calibrations are in black etch-engraving on heavy metal background plates. In three sizes, with 0-100 calibrations. Bakelite flutedinger grin points. finger-grip pointer knob fits 1/2" shafts. 325° plates ideal for volume controls.



Degrees	2"	31/9"	4"
180° 325°	55-100 55-101	55-105 55-106	55-110 55-111
NET	60c	89.	\$1.03

DIAL PLATES ONLY (LESS KNOB)

180 DEGREES			325 DE	GREE	S
No.				Dia.	
55-120	2"	32c	55-128 55-129 55-130	2"	32c
55-121	31/2"	54c	55-129	31/2"	54c
55-122	4"	62c	55-130	4"	62c

FLUTED KNOBS

Molded of high quality black bakelite; for 1/4" shaft. Has an attractive, profes-sional appearance. Fluted rim gives positive grip.

Fig. A. Pointer Type 55-085.11/6" NET. 27C 55-086.11/6" NET. 35C 55-087.21/6" NET. 40C

Fig. B. Flange Type 55-090.21/16".NET. 35C 55-091.3".NET. 40C

Fig. A. Less Pointer 55-095.11/8". NET. 22C 55-096.11/8". NET. 27C 55-097.21/8". NET. 35C





DIAL & JACK MARKERS



Fig. A. Tuning and Volume dial markers. Diameter 15/6". Bronze finish. Dlal plate, graduated 0-100. Volume plate has etched arrow and is not graduated. Fig. B. Jack markers. Black with metallic lettering. Hole diameter 7/16", 55-144 is ideal for use with toggle or rotary type switches. Wt., 2 oz.

HANDY GENERAL-PURPOSE SWITCHES

EACH

10 for \$1.08



SWITCH

Single-pole, single-throw, 90-de-gree turn switch lock. Key with-draws only in locked position when contact is broken. Heavily-plated, % inch body diameter, 27 thread. With two keys. For automobile radios, amplifiers, portable equip-ment, etc. Shpg. wt., 802. 54c

G.E. MERCURY SWITCH



Low-cost mercury switch for laborator-ies, build-

ers, experimenters, etc. Provides quick break; low resistance. Mounts horizontally; 15° movement for positive operation. 7' leads. 1½ x ½". 4 oz. 25c



166

TEST BUZZER BUTTON

earl button is held in 1/2 lin. hole y spring clasps. Wt., 4 oz. spring clasps. Wt., 4 oz 100

BAKELITE A KNIFE

for panel or



34-800. SPST | ½**1½** 13c 34-801. SPDT | ½*1½** 19c 34-802. DPST | ½*1½** 26c 34-803. DPDT | ½*½** 29c

PORCELAIN KNIFE

Compact midget knife switches. Glazed por-celain base; screw ter-minals.



何一官

34-820. SPST 1" x2%" 10c 34-821. SPDT 1" x2%" 12c 34-822. DPST 1% x1% 118c 34-823. DPDT 1% x2%" 21c 34-824. 3 PDT 2% x2%" 54c

H & H ROTARY SWITCH

Shallow ranopy type. Plated. 16 stem. Wire leads. Rated 6 amp. at 125 volts. amp. at 125 Wt., 6 oz. 34-147. 10 For \$1.62. NET EACH.



CENTRALAB SPECIAL-PURPOSE SWITCHES

LEVER-ACTION

Low-capacity silver-plated

sil ver-plated contact points.

1½ x 1½ x ½",

*Spring action retarn from either side. thositive spring action to midposition from one side only and spring return. Others, positive action in all positions. Use plates listed below. Shpg. wts. 4 cm.

Poles	Posi-	Shorting	Non-
2 2 2	3*	1452	1454 1455
2 4	31	1466	1457
4	2*	1456	1457

34-020. Specify Type. 59c

AC SNAP SWITCHES

Lever action, use plates below. 34-040.SPST. 1468. NET. 350 34-041.DPST. 1469. NET. 440

PLATES FOR ABOVE

34-0!50.P	1755 1	Switch	120
34-0!51.P	17562	Switches.	180
34-0152.P			
34-053.P			
34-0154. P	1123 2	Switches.	4:90

ROTARY

& TONE

Small rotary
switches in balkelite cases. Underwriters' approved. 1449 has three
positions: one for AC line switch
operates off-on-on; second for tone
control, operates off-on-off. 1465
has AC snap-switch. 8 oz.

NET

No.	No.	Туре	EA.
34-070 34-071		SPST	29c 35c
34-072 34-073	1449	Tone Type SP 4 Pos.	35c 59c
_			000

TONE SWITCHES

Shorting-type contacts. Raiting, 1 amp. at 6 volts. Shaft, 1/4"x21/8".

34-080. Type 1460. SPDT or SPST. 1 x 11/4".

34-081. Ty pe 1461. SP37. 1%x1½". EACH... 29 34-082. Type 1452. DPDT. 1 x 1 1/2". NET

1450 SWITCH

Use as SPST, SP-DT, DPST, DP-DT 3PST, 3PDT, 4PST, 4PDT, NOT shorting type. %"
deep. 21/4" shaft.
With bar knob.
34-085 44c



BEST PRICES-HIGHEST QUALITY-SERVICE LOWEST

AL CABINETS AND CHASSIS



ICA HINGED COVER STEEL CABINETS

Deluxe		Size	Panel	Shpq.	hng. Standard	
Stock No.	NET	H. W. D.	Size	Wt.	Stock No.	NET
86-300	\$3.38	8x10x 8"	8x 8*	9 lbs.	86-310	\$2.26
86-301	3.38	8x12x 8"	8x10"	10 lbs.	86-311	2.44
86-302	4.12		8x12*	11 lbs.	86-312	3.09
86-303	6.17	12x20x12"	12x18*	17 lbs.	86,313	5.59

ICA DELUXE SLOPING PANEL CABINETS

The top corners of this all-purpose cabinet are rounded and trimmed with red striped metal. Sides have "Air-Gate" type ventilators. The rear has louvred ventilators with openings at the bottom. Eye-level controls can be installed. Front panel is removable so that the chassis can be attached to it and used as one unit. Cabinets and chassis are made of heavy-gauge metal. In four sizes with chassis to fit each unit as listed below. Finished in grey ripple. Chassis is black ripple finished, folded over on bottom and drilled to take bottom plates. Cabinets are supplied less chassis bases but with bottom plates.

Stock No.	Size	Shpg.	NET
	H.W.D.	Wt.	EACH
86-320	8x 8x 8"	9 lbs.	\$3.09
86-321	8x10x 8"	10 lbs.	
86-322	8x14x 8"	11 lbs.	3.53 5.59
86-323	12x18x12"	17 lbs.	

CHASSIS BASES FOR ABOVE AND AT LEFT

Stock No.	Size	For	Cabinet	No.	Wt.	NET
86-330	2x 7x 7" 2x 7x 9"	86-300,	86-310,	86-320	2 lbs.	59c 65c 79c 97c
86-332	2x 7x13"	86-302.	86-312.	86-322	2 lbs. 3 lbs.	79c
86-333	3x10x17"	86-303,	86-313,	86-323	5 1bs.	97c

CRYSTAL FINISH METAL CABINETS WITH HINGED TOP



Sturdy metal cabinets with piano-hinged lids. Front panel, back panel or bottom can be removed for changing wiring without disturbing the rest of the cabinet. Supplied in knockdown form for easy handling. Easily assembled. Finished in black ripple enamel.

Stock Size No. H.W.D.		Shpg. Wt.	NET
86-340	6x 9x 5"	6 lbs.	\$1.91
86-341	7x10x 8"	7 1bs.	2.41
86-342	10x10x 8"	8 lbs.	2.65
86-343	7x12x 8"	9 lbs.	2.73
86-344	8x12x11"	10½ lbs.	3.23
86-345	7x14x 8"	11 lbs.	2.73
86-346	9x18x12"	15 lbs.	4.03

UTILITY METAL CABINETS



Cabinets have various uses such as housing input stages, mixers, transceivers, amplifiers, monitors, etc. Front and back

covers are removable and can be fastened to cabinet with self-tapping machine screws. Cabinets shipped knocked-down. Easily assembled. Have black ripple enamel finish.

Stock No.	Size H. W. D.	Shpg. Wt.	NET
86-350	4x 4x 2"	1 lb.	\$0.59
86-351	5x 4x 3"	2 lbs.	.65
86-352	6x 6x 6"	3 lbs.	.73
86-353	6x 9x 5"	4 lbs.	1.15
86-354	7x10x 8"	5 lbs.	1.47
86-355	10x10x 8"	6 1bs.	1.82
86-356	8x12x11"	8 lbs.	1.94



CHROME HANDLES

A handy and useful addition to any cabinet, amplifier chassis, transmitter etc. Chrome finished (with red stripes added to 5½" size). With mtg. screws, 42-520. 4" Handle, 42-521. 5½" Handle, NET EACH.



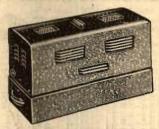
WRINKLE VARNISH

An attractive, modern wrinkle finish for all metal chassis, panels, etc. Air drying; easily applied with brush or spray. In six popular colors, Weights: 1/2 pt., 10 oz.; 1 pt., 11/2 lbs.

1/8 Pint	COLOR	1 Pint
43-000 43-001 43-002 43-003 43-004 413-005	Black Brown Green Silver Grey Red Blue	43-010 43-011 43-012 43-013 43-014

Pint EACH 23c Per Pint \$1.18

AMPLIFIER FOUNDATION UNITS



Clever design and styling are incorporated in these amplifier foundation units available at amazingly low prices. Top covers have rounded corners, and fronts are enbellished with polished "Air Gate" ventilators. Additional ventilation is obtained through the raised screen openings on the top as well as louvres on both sides and back. The unit is very simple to assemble. All parts are perfectly fitted. Red striped mouldings and handles give additional beauty to the appearance of the unit. In five convenient sizes. Finished in Marine grey ripple enamel.

	H. W. D.			EACH
	9x10x 51/2"	3"		\$2.91
86-371				3.79
86-373	9x14x10"	3"	II lbs.	4.26
86-374	9x17x10*	3*	14 lbs.	4.41

STURDY SLOPING-PANEL METAL UTILITY CABINETS





Professional type sloping-panel metal cabinets, ruggedly built, small and compact in design, and very attractive in appearance. Ideal for use as speaker cabinets, oscillator cases, receivers, amplifiers, etc. Have rounded corners. Finished in marine grey ripple-enamel.

StockNo.			NET
86-380	4½"H,4¼"W,4¼"D 4½"H,7½"W,4¼"D	2 lbs.	\$0.97
86-381	41/2"H.71/2"W.41/4"D	5 Ilos.	1.76

ICA DELUXE METER CASES

Designed to harmonize with the trend of modern streamthe trend of modern stream-limed equipment. Finished in marine-grey ripple enamel trimmed with beautiful red striped metal band. Has neat rounded top. Available for 2" or 3" meters. Ideal midget speaker case for intercoms. Shipping weight, 2 lbs.



Stock No. H. W. D. Opening EACH 86-390. 4½"x4\%"x4\\%" 2\\%" 2\\%" \\$ 1.03

PORTABLE STEEL CABINET

Ideal for housing oscillators, transceivers, test equipment, etc. Both front and back panels are removable and are held in place with self-tapping screws which are supplied. Entire cabinet is sturdily built of finest metal; has reinforced corners and edges. Supplied with a convenient leather carrying handle. The perfect housing for homebuilt portable equipment. Chassis listed below suitable for both sizes of cabinets. Finished in black ripple.



Stock No. H. W. D. W+ NET 86-395 12x7 4x7" 86-396 15x7 4x7" 9 lbs. 11 lbs.

METAL SPEAKER CABINETS

Designed to conform with streamlined appearance of all modern equipment. Metal grille firmly attached, will not rattle, and provides excellent protection for speaker cone. Has convenient metal carrying handle out top. Finished in black-ripple enamel with handle finished to match.



Stock No.	Size	H.W.D.	Shpg. Wt.	NET
86-360 86-361	6"	10x10x6* 12x12x7*	8	\$2.44
86-362 86-363	10"	14x14x8" 16x16x8"	15 20	3.88

CHROME TRIM MOULDING

Attractive chrome and red striped trim moulding to dress up any cabinet (for receivers, speakers, transmitters, etc.). transmitters, etc.). With mtg. hardware.



Stock No.		Туре	NET
42-500	3/4× 8"	With 1 red stripe	24c
42-501		With 2 red stripes	44c
42-502		With 2 red stripes	50c
42-503		Bullet shape. Plain	24c

CRYSTALLINE LACQUER

Will cover any metal surface, wood or other material. Dries in 20 minutes. Easy to apply and requires no special equipment. Will give your metal products a professional look. Supplied in three colors.



Color	1/8 Pint	1/2 Pint.	1 Pint
Black Grey Brown	43-020 43-021 43-022	43-031	43-041
Brown	43-022	43-032	43-0

1 Pint. Specify Color. Wt., 1 lb. Net. 61c 1 Pint. Specify Color. Wt., 1 lb. Net. 51.18

168 MAKE ALLIED Y OUR RADIO SUPPLY HEADQUARTERS

Quality Radio SWITCHES for all Purposes

H&HTOGGLESWITCHES



Underwriters'Ap-Underwriters' Approved; rated at 3 amps.—125 V., 1 amp.—250 V. Oxidized black finish. Threaded shank, ½ dia. With two locknuts. Wt., 6 oz.

SINGLE POLE DOUBLE THROW (3 LUGS) 34-110 3/4 in 22c \$1.98 34-111 3/4 in 24c 2.16 34-112 1 in 25c 2.25

THROW (6 LUGS)

SWITCH PLATES



A. An "on-off" plate for any toggle switch. Has ½" center hole; brown finish. 2c

34-151. Fig. B. This plate is finished in etched metal with black background. Dia., 11/8". 1/2" 9c center hole. EACH......9c

H&HROTARYSWITCHES



Positive contact rotary type power switches rated at 3 amps.—125 V., 1 a m p. — 250 V. Steel-cased. Shaft is ½, long. ½, diameter. 5% diameter. 5 million with locknuts. Underwriters Approved. Wt., 6 oz. Positive contact

34-140. SPST 1/4" 18c shank. 10 for \$1.62. EACH 18c 34-141. SPST 3/8" shank. 10 for \$1.62, EACH 18c 34-142. SPDT 3/8" Shank. 10 for \$1.98. EACH 22c 34-143. DPST 1/8" shank. 10 for \$3.15. EACH 35c 34-144. DPDT 3/8" 38c shank. 10 for \$3.42. EACH 38c

PUSH-BUTTON STYLE



SPST metal planger type. Press plunger to close circuit; press again to open. Will hanopen. Will lundle 6 amps, at 125 V. Threaded 15/12" dia. shank 1/2" long with

lock nuts. Wt., 8 oz.

BAKELITE BUTTON TYPE

As above, but with snap-on bake-lite button in red or black.
34-161. Red.
34-162. Black. EACH. 35c
10 FOR. \$3.15

ROTARY SWITCHES

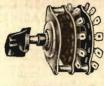


Compact switch used in test equip-ment, etc. Nickelment, etc. Nickel-plated type with pointerknob. Mount the hole. Of fine quality. Wt., 6 oz.

No. Points
34-170 3
34-171 5
34-172 7
34-173 9
34-174 12 EACH....45c

MALLORY GANG SWITCHES

For test equipment and general radio and laboratory work. Have 1 fixed and 1 adjustable stop, laminated bakelite insulation, and phosphoronze springs. 2 gang switches are spaced ½"; 3 and 4 are spaced 1". Notched 2" shaft is easily shortened. Require ½" mounting hole. With bar knob, but less the dial plate. Use 1½" base diameter switch plates listed below. Wt., 12 oz.



Shorti	ng	Non-Shorting		-	Deles	Posi-	NET
Stock No.	Type	Stock No.	Туре	Gangs	Poles	tions	EACH
34-200	1216L	34-250	1316L	1	1	1-6	\$0.59
34-201	1211L*	34-251	1311L*	1	1	1-11	.68
34-202	1215L	34-252	1315L	1	2	1-5	.73
34-203	1213L	34-253	1313L	1	3	1-3	.79
34-204	1212L	34-254	1312L	1	4	1-2	.85
34-205	1226L	34-255	1326L	2	2	1-6	\$0.94
34-206	1221L	34-256	13211	2 2	2	1-11	1.03
34-207	1225L	34-257	1325L	2	4	1-5	1.18
34-208	1223L	34-258	1323L	2 2	6	1-3	1.23
34-209	1222L	34-259	1322L	2	8	1-2	1.32
34-210	1236L	34-260	1336L	3	3	1-6	\$1,29
34-211	1231L*	34-261	1331L*	3	3	1-11	1.38
34-212	1235L	34-262	1335L	3	6	1-5	1.47
34-213	1246L	34-263	1346L	4	4	1-6	\$1.62
34-214	1241L	34-264	1341L	4	4	1-11	1.76
34-215	1245L	34-265	1345L	4	8	1-5	2.06

Have no third or "off" position with all circuits open. All others have. 34-420. Universal Mounting Bracket RB254 for all above. NET 12c

MALLORY SINGLE GANG SWITCHES

The Mallory types 3100J and 3200J series of switches. Designed for short-wave, tone control, and tap switch requirements; non-shorting types for test equipment service. Have 2" notched shafts; silver contacts; 4" threaded bushing. With bar knob and mounting nut. All 11/16" base dia. types have adjustable stops. Wt., 8 oz.



Shorting		Non-Shorting		Shorting Non-Shorting		Dates	Posi-	Base	NET
Stock No.	Туре	Stock No.	Туре	Poles	tions	Dia.	EACH		
34-300	3115J	34-350	32151	1	1-5	11/4"	1		
34-301	31112J	34-351	32112J	1	1-12	11/4"			
34-302	3122J	34-352	32223	2	1-2	11/4"	44c		
34-303	3123J	34-353	32231	2	1-3	11/4"	1		
34-304	3126J	34-354	3226J	2	1-6	11/4"			
34-305	3134J	34-355	3234J	3	1-4	11/4"	53c		
34-306	3142J	34-356	3242J	4	1-2	11/4"	50c		
34-307	3143J	34-357	3243]	4	1-3	11/4"	53c		
34-308	31117J-	34-358	321171	1	1-17	111/16"	79c		
34-309	3129J	34-359	3229J	2	1-9	111/16"	79c		
34-310	3136J	34-360	32361	3	1-6	111/16"	79c 88c		
34-311	3163J	34-361	3263J	6	1-3	111/16"	88c		

MALLORY SWITCH PLATES FOR ABOVE

For switch, tone or volume control. Easy-to-read figures on black. 1/6 center hole. For 1 1/6 and 1 1/1/6 base diam. switches. Spacing between numerals: 1 1/6 30°; 1 1/1/6 20°. Specify marking and stock No.

Marking	Marking	Marking	Marking
*0 to 100	1 to 6	1 to 12	Off-1 to 7
1 to 2	1 to 7	1 to 17	Off-I to 8
1 to 3	1 to 8	Off-1 to 3	Off-1 to 9
1 to 4	1 to 9	Off-1 to 4	Off-1 to 10
1 to 5	1 to 10	Off-1 to 5	Volume
	1 to 11	Off-I to 6	



34-600. For 11/4" Switch Base Diameter (except 1 to 17).
34-650. For 111/16" Switch Base Diameter (except 1 to 2).
(*Net price, 12c.) ALL OTHERS, EACH.

MALLORY NO. 10 MIDGET JACK SWITCH



A handy, compact single-pole, single-throw jack awitch with "onoff" plate, black bakelite knob, and metal pointer. Mounts in single %" hole on panels up to 1/4" thick. Wt., 6 oz. 29c

MALLORY LONG FRAME

JACKS These jacks extend 31/4" behind panel, Provide even tension and wiping action. Have heavy contacts. Make use of bakelite separators ground to uniform thickness. 3 oz.

34-440. No. 1. Open 29c 34-441. No. 2. Circuit Closing 34-442. No. 2A. Two Circuit, NET EACH....

MALLORY JUNIOR JACK SWITCHES

Constructed of selected nietals. Has uniform tension and wiping action contacts. Furnished with black knob pointer, and hardware. "On-Oil" plate with two-position switches only. Mounts in %" hole on panels up to %" thick. Ideal for use where depth behind panel is limited. Extends only 1%" back of panel. Average shpg. wt., 10 oz.

2 POSITION SWITCHES

2 POSITION SWITCHES

Stock No.	Туре	Mfir si	NET
34-400	SPDT	72(1)	41c
34-401		73(1)	50c
34-402		74(1)	56c
34-403		76(1)	73c

3 POSITION SW ITCHES (Center Position 73 2 \$0.50 34-411 DPDT 76 2 .71 34-412 3PDT 76 4 1.15

CUTLER-HAMMER

TOGGLE SWITCHES

Underwriters' Approved. 15/12" diameter threaded shank; bakelite base. One-hole mount; solder lugs. Heavy nickel-plated finish. Shank is 1/2" long. All rated at 125 volts. Wt., 6 oz.

34-500. SPST 6 A. 10 for \$1.62. EACH... 34-501. SPDT 3 A. 10 for \$1.98. EACH... 34-502. DPST 6 A. 10 for \$3.15. EACH... 35. 34-503. DPDT 6 A. 10 for \$3.33. FACH... MIDGET TYPE

Low-cost SPST type switch. '½' bushing slotted to take 'on-off' plate listed below. Mounts in ½' hole in panels up to ½'' thick. 3 amps. 125 V. AC. 3 amps., 125 V. AC. 34-510. 10 for \$1.26. EACH.



"ON-OFF" PLATES

POWER TYPE

SPST power switches. Rated at 125V. AC. Bakelite housing. One hole mounting. 1½" bushing.

1½" bushing. End screw terminals. Niekel finish. 8 oz. 34-520. 10 Amps. 10 for \$3.42. EACH.....38c 34-521, 15 Amps. 10 for \$5.85, EACH....

3-POSITION TYPE

SPDT switch with off position in center. Rated at 3 A., 125 V. A.C. 1/½" bushing. Screw terminals. One hole mounting. A fine quality switch. 6 oz.

FEDERAL ANTI-CAPACITY SWITCHES

Springs and contacts of sil-aver-plated phosphore 2½x5x



PUSH-BUTTON TYPES

Have nickel-silver springs and 1/2" bakelite button. 1/4" hole mounting. Locking type makes contact with knob pushed Non-locking type opens whereleased. 1/4" panel. Wt., 5 oz.

Locking Type	Type	Locking	NET EA.
24 451	DPST	34-460	700
24 452	CPDT	34-463	330

FEED-THRU TOGGLE SWITCH

34-550. Underwriters' Approved. Bakelite construction. 6 amp., 125 V. 12 oz.



.UGS · JACKS · POSTS · CL

ALLIGATOR CLIPS



Banana plug fits back of clip. In-sulated type with red or black handle. *Insert for phone tips.

41-270, FIG. A. 2" long. EACH..... 41-271. Pkg. of 12......43c

FIG. B. 21/4" INSULATED 41-280. Red. 41-285. Black. EACH... 8c 41-281. Red. Pkg. of 12. 41-286. Black. Pkg. of 12. PER PKG.......86c

FIG. B. 23/4" INSULATED* 41-300. Red. 41-305. Black. EACH. 19c 41-301. Red. Pkg. of 12. 41-306. Black. Pkg. of 12. PER PKG......\$2.05

COLORED TIP JACKS



Amphenol bakelite jacks. Held in 3/8" hole by sturdy retainer ring.

41-320. Red. 41-321. Black. 41-322. Green. 41-323. Blue. 41/2c

41-240. Solderless pin plug.5c

BINDING POSTS



FIG. A. EBY JUNIOR. Non-removable screw-type top. ½" dia. Screw is 6-32 x ½" long. With soldering lug. Wt., 4 oz.

41-350. Plain. 41-354. 41-351. Ant. Output. 41-352. Gnd. 41-355. + 41-353. Input 41-356. —

FIG. C. COMBINATION FOR BANANA OR TIP PLUG. Top takes banana plug; shank accom-modates phone tip or wire. 4 oz.

Color	EACH	Pkg. of 12
Red Black	41-330 41-335	41-331
		\$1.19
NET	11c	21.13

BAKELITE TWIN JACKS



Fig. A. Laminated. 2"x11/16". 2 oz.

Type	EACH	Pkg. of 12
Speaker	41-375	41-376
Phono	41-377	41-380
NET	60	650

TRIPLE LAMINATED JACKS For mikes, speakers, etc. 9c

FIG. B. MOLDED TWIN JACKS. Have single mounting screw modded into bakelite. Size, 1½'.x'l\g''. For cord tips. Wt., 2 oz. 41-390. Speaker. 41-391. Phono. 2' long. 17c41-392. Plain. EACH... 17c

SHORTING TYPE JACKS

Circuit closes when tips are removed. Similar to Fig. B. Single mounting stud. 2 oz. 17c



FIG. A. STANDARD PLUG

Take two sets of cord tips. Have molded bakelite barrel. Barrel size: ¾ dia., 1¾ long, Wt., 5 oz. 41-601. Red. EACH... 21c

FIG. A. METAL SHELL TYPE Bright polished metal shell for shielding purposes. Barrel size: 11/6" dia., 21/8" long. 6 02. 39c

FIG. B. STUBBY TYPE PLUG

Shielded type plug for use in limited space. Polished metal shell. Suited for portable amplifiers. Barrel size. 11/6° dia. x 1". 31c

FIG. D. CARTER FLAT PLUG Molded bakelite, 11/16" dia., 1/4" thick. Stay-cord anchor. 4 oz.

FIG. C. MIDGET TYPE PLUGS Compact, 25/8" overall. Bakelite barrel length 1". Dia. %6". 6 oz. 41-625. Black. 41-626. Red. EACH... 21c

FIG. C. METAL SHELL TYPE Metal shell for shielding purposes. Barrel 11/4"x%'. Wt., 6 oz. 30c

FIG. E. TRIMM FLAT PLUG Molded bakelite plug ¾ thick. Polarity shown. Wt., 2 oz. 34c

EXTRA PLUG BARRELS

(

STANDARD JACKS

FIG. F. Metal jack for banana plugs. %" long. Wt., 2 oz. 5 c

41-471. Pkg. of 12.....54c 100 For......\$4.05

FIG. G. INSULATED TYPE With insulated shoulder washers.

BABY INSULATED TYPE

Color EACH Pkg. of 12
Red 41-005 41-006
Black 41-010 41-011
NET 6c 65c

FIG. E. BABY PLUGS

BABY INSULATED TYPE Color | EACH | Pkg. of 12

.54.86

41-451 41-456

100 For

QUALITY TIP JACKS



FIG. C. INSULATED TYPE.

41-111			
41-110			
65c			

FIG. D. BANANA OR CORD TIP JACK. Combination insulat-ed jack for standard tip or banana type plug. ¼" mtg. hole.

Color		Pkg. of 12
Red Black	41-130 41-135	41-131 41-136
NET	9c	97c
100 Fo	r	\$7.20

MALLORY COLORED TIP JACKS



ROUND HEAD TIP JACK

Bakelite top and washer insulates tip jack from metal panel or chassis. Assures positive insulation. Wt., 3 oz.





FIG. A. Standard cord tip; fits regular tip jack. 41-202. 100 For..... 976 41-201. 12 For...... 136 FIG. A. Similar to above but heavy duty for use on test leads, etc. Plated metal. 41-211. 12 For. 43c 41-210. EACH. 4c

FIG. B. Hole in sleeve provides means of soldering to wire insert. 41-22.2. 41-222. \$1.21 100 For 41-221. 12 For. 16c

FIG. C. "Imp" midgett 11/6" solderless screw-on connector. 43c 41-231. 12 For. 41-230. EACH......4c

FIG. D. Standard size 15/8" solderless screw-on connector. 54c 41-241, 12 For. 5c

FIG. E. INSULATED TYPE. Color EACH Pkg. of 12
Red 41-250 41-251
Black 41-255 41-256 NET 86c 8c

BANANA PLUGS AND JACKS



STANDARD PLUGS

41-401. Pkg. of 12..... 54c 100 For......\$4.05

FIG. B. INSULATED TYPE

Set screw holds wire in place. Size: 15/8". Plastic insulation.

COIOL		FRG. OT 12
Red Black	41-405	41-406 41-411
NET	9c	97c
100	For	\$7.20

FIG. C. NON-INSULATED. Sturdy positive spring in heavy durable metal. Size: 11/4". Fit standard banana type jacks. 5c

FIG. D. INSULATED TYPE

NET 9c 97c 100 For...... \$7,20

A B

(A)

SPLIT TYPE PLUGS

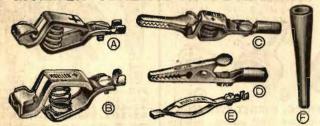
41-421. Pkg. of 12.....54c



MALLORY PHONE PLUGS AND JACKS

FUSES·CL .IPS · CONNECTORS

MUELLER GENERAL PURPOSE CLIPS



For making quick, but temporary electrical connections. Standard packages of 10 have 5 each plus and minus clips. Types marked with asterisks (*) are solid copper.

MESH TEETH TYPE FIG. A

Mfr's		un time	Jaw	Jaw Spring RACH Box No. NET No.		EACH		10
Type	Amps.	Size	Spread	Spring	No.	NET	No.	NET
45 45C 48B 27	5 10* 10 20	11/2" 21/2" 21/2"	3/8" 1/4" 1/2" 5/8"	7 lb.	45-005	6c	45-001 45-006 45-011 45-016	29c 54c 32c 69c

GRIP TEETH TYPE FIG. B

25	127/8"	1"	17 lb.	45-020 8c 45-021 \$0.59
50*	27/8"	1"	17 lb.	45-025 15c 45-026 1.37
50	4"	11/4"		45-030 12c 45-031 1.08
100*	41/4"	11/4"		45-035 38c 45-036 3.43
100	6"	13/4"		45-040 45c 45-041 4.12
200*	6"	13/4"		45-045 75c 45-046 6.86
300*	73/4	2*	52 lb.	45-050 1.35 45-051 12.25
	50 100* 100 200*	50 100* 4¼" 100 6" 200* 6"	50 4" 1¼" 100* 4¼" 1¼" 100 6" 1¾" 200* 6" 1¾"	50* 27/8" 1" 17 lb. 50 4" 11/4" 33 lb. 100* 41/4" 11/4" 33 lb. 100 6" 13/4" 38 lb. 200* 6" 13/4" 38 lb.

WEE-PEE-WEE PHOSPHOR BRONZE CLIPS FIG. E

Mfe's			EACI	H	Box of	10
Mfr's Type	Size	Description		NET	No.	NET
88	111/16"	Ideal for coils.	45-055	7c	45-056	59c
		CROCODILE	CLIPS FIG	. c		
85	23/8"	Fit banana plugs.	45-060	5c	45-061	39c

85 23/8"	Fit banana plugs.	45-060	5c	45-061	39c
	ALLIGATOR C	LIPS FIG.	D		CALL.
60S 2" 60HS 21/4" 60HS 21/4" 60CS 2"	Fit banana plugs. Ins'd red handle. Ins'd black handle. Solid copper.	45-065 45-070 45-075 45-080	5c 8c 8c 8c	45-066 45-071 45-076 45-081	39c 69c 69c 69c

RUBBER INSULATORS FIG. F
For Mueller clips. In pairs of 1 red and 1 black. Made of Fiberglass.

For	Per	Pair	Per 5	Pair	For	Per F	air	Per 5	Pair
Clip			No.			No.	NET	No.	NET
48B	45-105	18c	45-101 45-106 45-111 45-116	.59	11 11A	45-125	1.04	45-121 45-126 45-131 45-136	3.53



EXTRACTOR FUSE POST

41-720. Underwriters' Approved Molded bakelite. Holds type 3AG fuses. For pauels up to \%' thick.

41-721. For Test Instrument Littelfuses 1"x". 24c



FAHNESTOCK CLIPS

Stock No.	Туре	Per Doz.
41-701	Single 1" Single 3/4"	10c 9c
41-711	Double 11/2"	27c 26c

MIDGET SHORT JACK



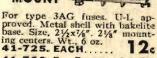
172

Smallest made. High grade bake-lite insulation. Requires 1/8 mounting hole. mounting hole. Widely spaced lugs. Wt., 4 oz.

41-030. Open Circuit. 14c

41-031. Single Closed 17c

METAL-MOUNT COVERED



41-726. Per Dozen...\$1.30

HINGED COVER TYPE

Underwriters' Appr. Single and double pole mount. Bakelite base, 2½ x ½. Meets engineering requirements for coin machines, amplifiers, radio sets, etc.

BUSS QUALITY FUSES

TYPE 3AG

Tubular fuses. Tubular fuses.
Compactly
made. Size is
1 1/4 in. x 1/4 in.
Protect radio
sets. test instruments, etc.
In metal box.



No. Amp.	No. Amp.
52-150 1 52-151 1½ 52-152 2 52-153 3 52-154 4	52-155 5 52-156 10 52-157 15 52-158 20 52-159 25
Box of 5 16c	Box of 5 10c

TERMINALS—TIES—CONNECTORS



			750000
Fig.	Description	Stock No.	Per Doz.
AB	Insulated Tie Terminal; Tie Point		23c
C	Single hole mount. For ¼" Día. Fuses Terminal lugs. Make your own strips	41-756	14c 38c
DE	Pressure type terminal board contact Black insulated pin-plug. Fits "D"	41-771	9c 42c
F	Single-lug mounting strip	41-781	9c

41-785.Fig. G. Universal storage battery binding post. EACH.. 18c

JONES "140" TERMINAL STRIPS

Barriers between terminals increase insulation, by increasing leakage path. Has many applications. Molded bakelite base 1/6" wide, 13/2" high. 5-40x3/6" screws. Wt.,

No.	Descrip'n	Type	EA.
41-800	2-Terminal	2-140	11c
41-801	3-Terminal	3-140	16c
41-802	6-Terminal	6-140	27c

MOUNTING STRIPS



	- T - 1						
Lugs	EA. No.	NET	Doz. No.	NET			
2	41-850	3c	41-851	19c			
3	41-855	3c	41-856	22c			
4	41-860	4c	41-861	39c			
5	41-865	4c	41-866	39c			
0	4T-910	40	41-011	39c			

RADIO TYPE TERMINAL STRIPS



1/16" thick bakelite strips.

Term.	EA. No.	NET	Doz. No.	NET
3	41-810 41-815 41-820 41-825 41-830	11c	41-816	1.19

HEAVY-DUTY STRIPS

Bakelite strips with securely fas-tened screw terminals.



Stock No.	Term.	EACH
41-875	2	90
41-880	3	12c
41-885	4	15c
41-890	5	19c
41-895	6	23c

LITTELFUSES FOR TEST INSTRUMENTS

Designed especially for the protection of delicate instruments. Glass enclosed units, 1x¼". High-speed action with short time lag. For use on AC or DC up to 250 volts. Highest quality. Laboratory tested.



- 1		The same		Use	to Protec	t	
Rat-	Max. Resis.		Landing I	Charles described	Volt- meters	Milliam meters	
Amps.	Amps. M. A. Load Stock		NET EA.	Ohms per Volt	All Mag- netic Types	Ther- mo- Couple Types	
1/200	5	500	52-200	18c	Over 1000	Galv.	0-5
1/100 1/32 1/16 1/8	10 25 60 100	110 20 5.0 1.5	52-201 52-202 52-203 52-204	12c	1000 500-1000 100- 500	Up to 0-1 0-10 0-25 0-75	0-10 0-25 0-60 0-150
1/8 1/4 3/8 1/2 3/4	100 200 300 400 600	3.0 6.2 3.0 2.5 .40	52-205 52-206 52-207 52-208 52-209	9c	20-100 10-20 5-10 3-5	0-75 0-150 0-250 0-350 0-500	0-150 0-200 0-300 0-400 0-600
1 2	1000	.24	52-210 52-211	6c		0-750 0-1500	0-1000

TYPE 3AG LITTELFUSES FOR RADIO & AMPLIFIER

For use in 105-120 volt primary line. Underwriters' Approved. 11/4x1/4".

Amps.	Volts	No.	EACH	Amps.	Volts	No.	EACH
1/6	500	52-2301		1	250	52-2361	-
1/4	500	52-231		3	250	52-2371) Jc
1/2	500	52-232	9.	4	250	52-238	1
3/4	500	52-233	1	5	250	52-239	60
1	250	52-234	=	6	250	52-240	Oc
11/5	250	52-235	36	8	250	52-241	90

FUSE MOUNTINGS

Test instrument type with Littelfuse mounts.



52-285.	
Bakelite	
base; single hole mtg.	0
EACH	9.
52-286. Pkg. of 12	98c
52-290. Panel type mounting. EACH	
52-295. Meter Back mtg. 1"x1 1/8"x1/6". EACH 1	

SFE AUTO FUSES

New approved auto and radio fuses replacing older 3AG type. Order by amp. rating. Different length for each rating prevents possibility of incorrect replacement.

EACH			12 For	
No.	NET	Amps.	No.	NET
52-250	1	4	52-251	1
52-255	2	6	52-256	
52-260	20	9	52-261	330
52-265		14	52-266	-
52-270		20	52-271	
52-275	4c	30	52-276	43c

FOR COMPLETE INDEX SEE PAGES

ADIO HARDWA RE VALU



RIGHT ANGLE BRACKETS

Plated-metal angle brackets. Provide firm support at corners of cabinets, racks, etc. 3/8" width. *Z bracket. 12 oz.

Stock No.	Size	12 For
44-001	1/2× 1/2"	9c
44-006	1/2 x 1/2" 5/8 x 5/8"	14c
44-011	1 x1"	19c
44-016	1 1/8 x 1 1/8"	25c
44-021	11/2×11/2"	32c
44-026	3/4"x17/2"*	39c
	A SUMMER AND STREET	

WITH TAPPED HOLES

For chassis, cabinets, etc. One 8-32 tapped hole and one 5/2" dia. plain

n Di	HC PI	ITTO	16
ets. Wt., 1 ll	NET		52C
30 popular-si	zed angle	s and br	ack-
44-325. E			
44-041	1/2×3/4"	3	32c
44-036	1/2×5/8"		60
44-031	1/2×1/2"1		
Stock No.	Size	12	For
noie. Plated	mietai.	W L., 12	04.



PLUG BUTTONS

Plated metal buttons for covering holes up to 1/16" thickness in panels, chassis, racks, cabinets, etc.

Stock No.	Hole Dia.	12 For
44-051	11/32"	21c
44-056	5/6"	26c 31c
44-066	3/4"	31c
44-071	11/4"	52c

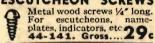
SOLID TYPE RIVETS

Size	24 1	ots	Gross	Lots
Length	No.	NET	No.	NET
3/16"	44101	11c	44102	46c
5/4"	44106	12c	44107	48c 55c

EYELET TYPE RIVETS

1/8"	44121	11c	44122	46c
*5/16"	44126	18c	44122 44127 44132	55c
† 5∕ 16″	44131	20c	44132	59c
	lio +1			

ESCUTCHEON SCREWS



RUBBER BUMPER FEET





INSULATED GROMMETS

Prevent wires from fraying or breaking. Knurled mounting nut.

Stock	Fits	Inside	9	Per
No.	Hole	Dia.	Lgth.	Doz.
44-161	3/8"	1/8"	3/8"	65c
44-166	3/16"	3/16"	3/8"	77c
44-171	1/2"	1/4"	7/16"	90c
44-176	9/16"	3/16" 1/4" 5/16"	1/2"	98c

RUBBER GROMMETS

For insulating holes in metal plates up to 1/16" thick. Of dur-

able live bl	ack rut	ber.	
Stock		Inside	Per
No.	Hole	Dlam.	Dos
44-181	74"	1/8" 5/16"	21
44-101	7/16"	716	50



RADIO HARDWARE IN JARS



Glass jars with screw-on caps offer a neat, convenient way of storing your radio hardware. Jar comes filled with any single selection of hardware below. Buy your hardware this way and keep your workbench ships have. Shory we per jar 8 02

	ICE ANY J			
COMPLET	E WITH H	ARDWAR	E	LIC
44-500.	Glass Jar C	nly		6c

R.H. MAC	HINE SCRE	WS (A)
Stock No.	Quantity	Size
44-510	100	4-36x1/2"
44-511	75	4-36x3/4"
44-512	90	6-32x 1/4"
44-513	80	6-32x1/2"
44-514	70	6-32x3/4"
44-515	50	6-32x1*
44-516	65	8-32x3/4"
44-517	35	10-32x1"

44-516 44-517	65 35		32x3/4" -32x1"
NICKELED	HEX	NUTS	(B)
44-530	100	4-	36x 1/4"
44-531	90	6-	32x 1/4"
44-532	80	6-	32x3/16"
44-533	80	8-3	32×5/164
44-534	50	10-	32x3/8"

RACK SCREWS-WASHERS(C) 44-545. 20 each 10-32x5%" oval

nead screws	WILL CUD	wasners.
SELF-TAP	PING SC	REWS (D)
Stock No.	Quantity	Size
44-550	50	No. 6x1/4"
44-551	45	
44-552	40	No. 7x1/2"
SHAKEPRO	OF WAS	HERS (E)
44-560		6-32
44-561		8-32
44-562	80	10-32
Shoulder 1	Fiber Wo	shers (F)
44-580	100	3/8-1/4×5/64"
44-581	90	7/16-13/64×7/64
44-582	75	1/2-3/8×3/64* 1/2-3/8×3/2*
44-583	50	1/2-3/8 x 3/32*
F IN FNVE	OPES	

RADIO HARDWARE IN ENVELOPES

NOTE: Hardware above is available in small quantities in envelopes.
When ordering envelopes, change prefix number from 44 to 45. Thus 644-510 would become 45-510. EACH ENVELOPE.

HANDY HARDWARE ASSORTMENTS



ALL-PURPOSE ASSORTMENT

An indispensable item for the serv An indispensable item for the serviceman, experimenter, etc. Metal case has 12 compartments containing assorted machine screws, nuts, spade bolts, self-tapping screws, rubber grommets, knob set screws, rivets and eyelets, lugs, washers, etc. 5 lbs. \$2.03

BELDEN SOLDER LUGS



SWITCH POINTS AND STOPS

Heavy nickel plated brass. 6-32 thread, 1/2" long. Supplied brass. 6-32 to long. Se with a 1/4" nut.

Switch	Points.
44-33	1. PER DOZ9c
Switch	Stops.
44-34	1. PER DOZ9c
44-35	O. Switch handle 10c
and slide	er, with knob. NET 1 Oc



CABLE CLAMPS

The ¾' size fits ¼' cables: 1' size fits ½' cables. M ade of extra heavy-gauge plated metal. Have a No. 6 mounting hole.

44-361. ¾'' long.

44-371. 1'' long. Per 12 10c

9	8

Miscellaneous Hardware Wing nuts and cap nuts are bright finish. For dressing up appearance of all ap-

	THE RESERVE TO SERVE THE PARTY OF THE PARTY		paratus.	LOCK was	ners are spri	ng metal.
Size	Wing- nuts	12 FOR	Cap	12 FOR	Lock washers	24 FOR
10-32	44-206	26.	44-231 44-236	14c	44-251 44-256 44-261	7.
1/4-20	44-216		1 15	14.01.01.51		******



1000 PIECE ASSORTMENT

A bargain assortment of radio hardware that will prove invaluable to any serviceman or experimenter. Contains rivets, grommets, nuts, screws, washers, brackets, soldering lugs, etc. — 1,000 pieces of useful hardware for servicing, set-building, and all other needs. Wt., 4 lbs. \$1,35

FIBER WASHERS

A large variety of shouldered and plain fiber washers useful to every Radio Experimenter and Serviceman. Assortment of 100 washers per box. Shpg. wt., 11b. 44-320. PER BOX... 32c



INSULATING SPACERS

For raising subpanels, chassis, condensers, etc. Made of fenoline. Keep a supply on hand, 6 oz.

No.	Size	Quant.	NET
44-376		12	21c 24c
44-381	16" Long	12	24c
44-386	1/4" Long	12	27c 31c



SOLDERING LUGS

Quality soldering lugs. All sizes and shapes. Lasting connection. 44-426 takes No. 10 screw size. 44-431 takes \(\frac{1}{2}\) screw size. Rest take 6-32 and 8-32" screws.

No.	Fig.		Fig.
44-401		44-421	5
44-406		44-426	4
44-416			1. 1.

Per Pkg. of 100.

20e

"PARKERIZED" STEEL MACHINE SCREWS

Standard thread, "Parkerized" rust-proof steel screws in a wide selection of sizes for every purpose.

0-24	MOOIL	D HEA	_
No. L	ength	Gross	ATTA
44-701	1/8"	20c	-
44-706	5/16"	18c	8
44-711	1/2"	21c	
44-716	3/4"	25c	13
44-721	1"	29c	
44-726	11/4"	34c	8
44-731	2"2"	40c	营
44-736	2"	57c	
8-32	ROUN	D HEA	D

8-32 44-751 44-756 44-761	ROUND HE	AD 21c 25c 29c
44-766	134"	560

METAL TAPPING **SCREWS**

Cut their own threads in metal as they are turned in. For all sheet metal up to No. 16 gauge.

SIZ	E 6		SIZ	E 8
No.	Gross	Lath.		Gross
44-801	29c	1/4"		
44-806			44-826	33c
44-811			44-831	35c
44-816		5/8"	44-836	
44-821	330	3/4"	44-841	39c

PHILLIPS MACHINE **SCREWS**



8-32 ROUND HEAD 44-871 5/6" 44-876 1/2" 44-881 1"

ORNAMENTAL **HEAD SCREWS**

Rosette head; statuary bronze finish. Size 6-32

(5/16"	head	dia.).	
N	lo.	Length	Doz.
44-	886	3/4"	9c
	991	1"	100

44-896 114" 11c SPADE

LUGS



For mounting shield cans, etc. Cadmium plated, 6-32 thread, 44-902. Per Gross, 37c 44-901. PER 12. NET... 6c

HEXAGONAL NUTS

Standard 5/6" nuts, machined steel, heavy cadmium plated.
Size Per Gross
6-32 44-912
8-32 44-917



43c 46c 53c

SHAKEPROOF HARDWARE





Sturdy lugs and washers that lock in position. Cannot come loose. Lug No. Washer Lug No. Washer Washer 44-921 For 8-32 Screw 44-936 PER GROSS LUGS OR WASHERS... 29c

JUMBO SHAKEPROOF SOLDER LUGS

Cadmium - plated soldering lugs with ¼ "hole. Ideal for auto aerial connections, etc. 44-941. Per 12. 7c



NEUTRALIZING TOOLS · TEST LEA

ALIGNING AND NEUTRALIZING TOOLS



ICA NEUTRALIZING & ALIGNING KITS DELUXE MODEL

Aligns almost all receivers. 14 parts cover multiple functions. These units telescope into each other forming 6 separate tools. In a handy leatherette case including: Screwdriver with flexible shaft for hard-to-reach spots; 'magic' alignment tool; alligator side wrench; 6' insulated screwdriver with metal nib: 1/6' and 1/4' nut wrench; 1/4' insulated square nut wrench; 1/4' insulated square nut wrench; 1/4' insulated screwdriver with metal nib; 1/4' hex slotted insulated wrench screwdriver; 1/6' hex insulated screwdrivers. Supplied with leatherette case. Shop. wt., 1 lb. 3.38 Aligns almost all receivers. 14

STANDARD MODEL KIT

Similar to the "Deluxe" set above but less the flexible screwdriver and "magic" aligning tool. With handy case. 8 oz. \$2.79

SUPER DELUXE MODEL KIT



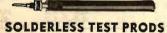
ICA ALL-PURPOSE TEST KIT

The handiest test kit available. Consists of a 60-inch pair of test leads, one red and one black, of kinkless live rubber-covered wire. One end has short insulated phone-tip plugs. Other has long insulated prod handles with banana-plug tips. Includes interchangeable colorcoded, insulated units, 1 pair alligator clips, 1 pair spade plugs and 1 pair needle points. In leatherette case. Wt., 1 lb. \$1.47



Non-Metallic Adjustable Neutralizing Tool. Made of tough plastic, no metal parts. Screwdriver at one end and hex socket at other. Fully shock-proof. 4 oz.
42-104. Extends 6" to 11". NET.... 36c
42-105. Extends 10" to 18". NET..... 51c

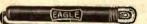
42-170. Non-Metallic Screwdriver. Made of 1/4" polished bakelite rod 6" 31c long. 4 oz. NET. A2-171. Double-Edged Screwdriver. Made of durable 1/4" bakelite with blades at both ends. 7" long. 3 oz. NET. 26c





SHORT TESTER

Uses miniature 2½ volt lamp and battery for indicating open or closed circuit. May also be used with a neon lamp for any voltage or frequency, or determining AC or DC. Shockproof. With bulb. Wt., 10 oz. \$1.03



TROUBLE LIGHT

A handy tool that saves time and trouble. Provides light where you want it. Fountain-pen size. For 110 voits AC or DC. With bufb, and 51/2-foot cord. Wt., 1 lb.

5-IN-1 ALIGNMENT TOOL



A handy alignment tool kit that will serve in-numerable uses. Consists of '\(\frac{1}{4} \) and \(\frac{1}{2} \) \(\frac{1}{6} \) or un-wrenches, miniature blade and full-size screw-driver with pocket clips. Shpg. wt., \(\frac{8}{2} \) oz. 42-125. NET. 65c

4-IN-1 ALIGNMENT TOOL



Combines in one Combines in one fountain pen size tool 4 Serviceman's necessities—14' and 16' nut wrenches, neutralizing screwdriver and key slot grip. Insulated handle with pocket clip. 6' long. 8 oz. 42-126. NET

42-127. Crosley attachment. 4 oz. 12c



42-135. Alignment Wrench. Handy aligning tool for adjusting air trimmers and coil cores. 3/2" dia. Plastic rod, 81/2" long, has hexagon wrench at one end and shaped hook at other. For RCA and Philco. 5 oz.



POLYSTYRENE LO-LOSS NEUTRALIZER

42-143. An alignment tool having a minimum effect on critical circuits. For adjusting FM, television, SW, and standard receivers. Made of Amphenol "912-A." With pencil-type clip. 5 oz. NET. 24c



42-145. Alignment Tool. Has specially designed metal clip for neutralizing air trimmer condensers on all model sets, including late Philco. Of narrow fibre rod. Dia. is 26c.



Insulated Hex Wrench. Hex broaching runs entire length of wrench. End may be cut off when worn. Fibre rod. Fits ¼" nut. 3 oz.

42-150. 42-151. 17c

42-155. Push-Button Aligner Tool. Designed for all Push-Button Tuners. Plastic handle. Overall length, 61/2. Socket is 1/2 diameter. Recessed blade in socket fits 35c slot in adjusting screw. 6 oz. NET. 35c

AMPHENOL CO-AXIAL CABLE TEST LEAD WIRE

BELDEN "LIMP" TEST PROD WIRE

Ideal for analyzers, oscillators, high voltage test apparatus and therapeutic equipment. Breakdown, 10,000 V. 23" dia. 6 oz. 47-801. 5 Ft. Length, Black. NET PER 15c 47-811. 5 Ft. Length, Red. LENGTH 15c



TEST LEADS AND KITS

HEAVY-DUTY LAB MODEL PRODS

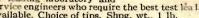
MODEL PRODS

All-purpose leads for test work. Flexible, rubber-covered kinkless wire fitted into heavy ½ handles, one red and one black. Handles, 5½ long, have sharp point phone tips and will fit all standard jacks. Leads are 50 long. These popular high quality test prods are used by leading laboratory and service engineers who require the best test leads available. Choice of tips. Shpg. wt., 1 lb. 42-200. Phone Tips.

42-201. Spade Tips.

42-202. Alligator Terminals.

PER PAIR.



NEEDLE-POINT LEADS

High-quality test leads equipped with needle points for making good contact through insulation or pitch. 4° handles, ¾° thick. 50° kinkless wire leads, 10 oz.

42-210. Phone Tips. 42-211. Spade Tips. PER PAIR.....

PER PAIR 36c
42-212. Alligator
Terminals. PER PAIR 41c



ALL-PURPOSE TEST PROD KIT

For all test requirements.

Made of sturdy plastic.
Handles are 6' long and ¼'
diameter. Have 50' kinkless red and black wires.
Prod end equipped with
split banana plugs allowing for interchange of
spade lugs, phone tips, or alligator clips which
are supplied. A complete test lead set offered
at an attractive low price. 1 lb.

42-220. NET.

986

42-220. NET..................98c

42-221. With Fixed-End Phone Tips. As above, but less interchangeable feature. 49c

42-222. With Fixed-End Alligator Clips, As above, but without the interchangeable feature. For Lab and test bench.

UNBREAKABLE TEST PRODS

Prods are nickel-plated brass, covered with red and black shockproof live rubber sleeves. Supplied with 50* kinkless rub-ber wire. Shpg. wt., 10 oz.

42-230. With Standard Phone Tips. 4 1c

42-231. With Insulated Phone Tips. 45c

ICA FUSED TEST LEAD SET



High-grade Weston type leads

PENCIL TYPE PRODS



42-241. Phone-Tip Plugs Only, as illustrated in circle above. One red, one black. Plastic insulated. With nuts and bolts.
Wt., 1 oz. NET, PER FAIR. 39c

OUR PRICES ARE ALWAYS LOWER—WE WILL NOT BE UNDERSOLD

POPULAR TOOLS

PURPOSE CIRCLE CUTTERS



Designed to cut large holes accurately and quickly in wood, bakelite, hard rubber, tin, sheet metal, etc. May be used in slow-speed drill press or ordinary handbrace. Type C is designed for heavy-duty work; Type A is a standard professional cutter, heavy bar construction; Junior type is for light work on softer materials. All cutter blades removable. Fine American-made tools.

45-601. Junior. Not illustrated (similar to Fig. A). Cuts holes % to 2½ in diameter. Suitable for light duty cutting in panels and 78 chassis. Shpg. wt., 1 lb. NET.

chassis. Shpg. wt., 1 lb. NET.

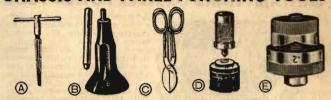
45-602. Type C. Square Shank. Heavy-duty cutter of hardened steel. Cuts holes 1" to 5½" in diameter in bakelite or metal panels. Shpg. wt., 2 lbs. NET.

45-603. Type C. Round Shank. Same as Type C above, but with round shank for use in power drill chuck. Cuts holes from \$1.88 1" to 5½". Shpg. wt., 2 lbs. NET.

45-604. Type B. ¾' to 8' Circle Cutter. All-purpose cutter of high-grade hardened steel. Fits brace or chuck. Cuts metal, \$2.91 bakelite, etc. Shpg. wt., 2 lbs. NET.

45-610. Cutter Blades. Extra blade for Type A and C cutters listed above. Made of finest tool steel, hardened for long wear. 24c Shpg. wt., 4 oz. NET

CHASSIS AND PANEL PUNCHING TOOLS



45-630. Fig. A. REAMER. Shank has T-type handle. Overall length, 5½"; taper, 3½". Small end diameter, ½"; large end diameter, ½". Shpg. wt., 69c. I lb. NET.

45-650. Fig. B. RIVET AND EYELET TOOL. Universal type for radio size eyelets and rivets. 6-sided, cast-iron base and hardened-steel punch. With assortment of eyelets and rivets. 2 \$1.49

45-635. Fig. C. STEEL SNIPS. 7" dropforged snips. Cut chassis stock, etc. Wt., 1 lb.

	EASY SELF	
	ICH. Require	
	centering. Shp	
Stock No.	DIA.	EACH
45-670	3/4"	\$1.75
45-671	13/16" 11/4"	1.89
45-672	1716	1.98
45-673	11/4"	1.98
	13/8"	
	For Amphe	
ets. Provi	des locking	57 75
key. 111/64"	hole. NET	2.23
Fig. E.	CHASSIS	SHEAR

PUNCHES. Cut round hole by turning cap screw. Shpg. wt., 1 lb. 45-685 45-686 45-687 45-688 45-689 45-690 45-691 3/4" 1/8" 13/6" 13/6" 15/2" 13/8".

\$1.99 45-692. Extra 3/8" Screws. NET..... Cap ...21c

HIGH-GRADE SOCKET WRENCH SELECTION



SPIN-TYPE WRENCHES

Sockets of hardened tool steel. Shanks of rust-proof steel with ribbed wooden handles. Shpg. wt. each, 8 oz. Set of six wrenches, 3 lbs.

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C
-
Ç
3
3

SOCKET WRENCH SET



AMBERYL HANDLE WRENCHES

Hardened tool-steel socket wrenches, 71/2" long. With hollow shafts and shockproof unbreakable plastic handle. Shop wt 12 oz tech

			D. Cucii.
Stock No.	Size	Stock No.	Size
45-800	3/16"	45-804	3/8"
45-801	1/4"	45-805	3/16"
45-802	5/16"	45-806	1/2"
45-803	11/32"	2000000	40
NET EACH.			40

45-810. Set of 7 wrenches. NET \$2.52

SOCKET WRENCH SET



Set of 5 detachable sockets of wrought steel with wrench handle. Sizes: 1/4. 1/6. 1/5. 1/6. and 1/2 inch to cover most jobs. Wt., 1 lb. 39c

HOLLOW HANDLE SET



LITTELFUSE NEON TATTELITE





LOW-VOLTAGE TATTELITE

78-056. As above but tests 3 to 25 volts AC or DC. Alligator clips on test leads. Less pocket clip. NET. \$1.03

VEST-POCKET SOCKET SET



PHILLIPS OFFSET SCREWDRIVER

Handy offset combination screwdriver for Phillips screws. One end drives Phillips No. 1 size; other end drives Phillips No. 2 size. Of durable alloy steel, 4½ long. Shpg. wt., 8 oz., 45-835. NET.



VALUES IN HANDY ELECTRICAL ACCESSORIES

















52-601. Fig. C. CUBE TAP.
Three connections from one outlet. Sturdy construction of
brown bakelite. 4 oz. NET... 7c

52-602. Fig. D. RUBBER HANDLE CAP. Unbreakable Fig. A. FRICTION TAPE. Black. 3/4 wide. 7 1/2c 52-610. 2 0z. Roll. 7/2c 52-611. 4 0z. Roll. 13c 52-612. 8 0z. Roll. 21c

52-620. RADIO-WIDTH FRICTION TAPE. 3/6" narrow width, made especially for radio work. Eliminates waste and tear-ing. 65 foot roll. 1 lb. 18c 52-615, SCOTCH TAPE. High

insulation value. 1/2" wide. 29c

52-605. Fig. E. AC TRI-EX-TENSION. Bakelite 3-way ex-tension tap. Steel-plated back. With 6 ft. rubber cord and plug cap. Underwriters ap-proved. Wt., 1 lb. NET... 24c

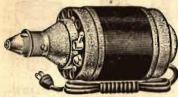
47-820, Fig. F. BELDEN EXTENSION CORD. 10-foot unbreakable, brown, all-rubber cap and double outlet tap. Famous Belden quality, built for long-life service. Underwriters' approved. Wt., 1 ib. NET. 43c

Fig. G. EAGLE INDICATING FUSES. Show "OK" in window when fuse is good; "OK" vanishes when fuse is good; "OK" vanishes when fuse blows. Five of one type per box. Shpg. wt. 1 lb.

87-900. Fig. H. CLAMP LAMP. Rubber-covered clamp fastens to chassis or cabinet. 5½ dia. shade. With switch, less bulb. 2 lbs. NET.... 89c

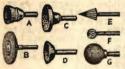
elues in POPULAR TOOLS

"BANTAM" HAND GRINDER POWER-TOOL



A sturdy, dependable, motor-tool with innumerable uses. By simply inserting the proper tool, you can grind, polish, carve, or drill on the most delicate and intricate objects as well as on toughest steel and plastics. Works equally well on wood, metal, glass, stone, chinia, bakelite, and many other materials. Used extensively by radio servicemen, toolmakers, machinists, engineers, experimenters, dentists, professional craftsmen, etc. Powerful motor with balanced armature and standard field, drives chuck at the high speed of 20,000 RPM. Internal fan insures cool operation. Has metal case and finger-tip switch. Size, 4½" x 2" dia. With 8 ft. cord, 2 wrenches, ½" and ½" collets, and 1 grinder wheel similar to Fig. C. For 110 V. AC-DC. Wt., 2½ lbs.

ACCESSORIES FOR ABOVE POWER TOOL



46-125. Fig. A. Bristle Brush. NET 23c 46-124. Fig. B. ¾' Wire Brush. NET\$1.08 46-121. Fig. C. Grinder Wheel. NET 45c 46-122. Fig. D. Grinder Wheel. NET 53c 46-127. Fig. E. Pointed Burr. NET... 97c 46-126. Fig. F. Blunt Burr. NET... 97c 46-123. Fig. G. Grinder Wheel. NET 53c

AC-DC ELECTRIC SPEED DRILL

This rugged electric speed drill is light and easy to handle. Sturdy chuck-assembly holds up to \(\lambda''\) drills. Handle has thumb-controlled switch. High speed drills can be used. 1500 R.P.M. Drills \(\lambda''\) from corners. For 110 V. AC or DC. With 7 foot cord. Shpg. wt. 4\(\lambda'\) lbs. \$7.45



POLISHING HEAD OUTFIT

Complete kit for home or shop. Use with ½ to ¼ horsepower motor for grinding, buffing, sawing or drilling. Consists of polishing head and chuck, saw table and guide, cotton buff, wire brush, saw, emery stone, leather belt, and 9 steel drills. Head has a 2-speed pulley, chuck capacity of ½2". Steel flanges hold stone, brushes, etc., against material being worked. Saw table clamps securely to polishing head. Red enamel finish. Shpg. wt., 8 lbs.



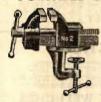
HANDY RULES AND GAUGES



SEMI-INDUSTRIAL MICROMETER

46-052. B. Similar to 46-050 above except frame and barrel are die-cast. Anvil and spindle are hardened and ground to maintain squareness. Decimal equivalents stamped on frame. I' size. In wooden box. \$3.35

PORTABLE CLAMP-ON VISES



Strong sturdy vise with jaw faces carefully machined to insure firm grip. Jaws close squarely with equal pressure on both ends. Jaw width, 2". Jaws open, 5". Will clamp on benches up to 21/4" thick. Has handy anvil back. Steel slide bar precision fit to prevent jaws from wobbling. Fine enamel finish. Ideal for carrying in tool kit.

46-020.2" Jaws. Shpg.wt., 3½lbs.\$1.10

46-021. 11/2" Jaws. Shpg. wt., 2 lbs. 55c

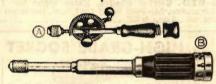
RADIO TAP, DRILL AND DIE SET



A complete set for almost all threads used in

4/36, 6/32. 8/32 threads. Three 1" dia. dies for cutting above threads. Die stock and adjustable tap wrench. In wood case, 115/6"x3½/"x 1½". Wt., 3 lbs. \$1.75

VALUES IN QUALITY DRILLS



46-031. Fig. B. Low-priced automatic push drill. With eight fluted-shank drill points. 1/6" to 11/6" diam. held in numbered racks in black bakelite handle. May be used as \$1.75

ASSORTED DRILL SET

American-made. Quality high-speed twist drill set, contain-ing the popular sizes neces-sary for radio and other work. Set consists of 9 carbon steel drills ranging from 1/6" to 3/6" sizes in 1/4 inch size gradua-tions. Wt., 10 oz. \$1.10



HANDY TOOLS FOR THE RADIO SERVICEMAN (A) E (E) **(M)**

Fig. B. FLEXIBLE SHAFT SCREW-DRIVER. No more fumbling for those hard-to-reach spots. Flexible shaft and movable insulated guide do the trick with little or no difficulty. 834" long overall. 1 lb. 46-070. NET. 986

Fig. C. POPULAR SCREWDRIVER KIT. Consists of 3 most used screwdrivers in leatherette holder for wall mounting. Blades measure 5½", 3½", and 2½". Wt., 1 lb. 42c

Fig. D. MUELLER SNAPPER. Combined test clip and radio tool. Spring contact Jaws make test-prod contacts; start nuts and screws in out-of-the-way places. Picks up fallen units. Push-button top operates jaws. 1 lb.

46-100. Red. 46-101. Black. NET EACH...... 38c

Fig. E. SCREW HOLDING CLIP. For any screwdriver. Comes in three sizes. Will fit any size or type wood or machine serew.
46-075. PER SET OF 3. NET... 10c

176

Fig. F. SCREW EXTRACTORS. For removing any broken screws, bolts, studs, and pipes. Simple turn brings out broken unit in one piece. Set of four extractors: 1/6", 1/6", 1/6", 1/6". 1/

Fig. H. END-WRENCH SET. A handy endwrench set of many uses. Cadmium plated. Wrenches are ½*-1/6°; ½*-1/6* and ½* with alligator jaw. Wt., 1 lb. 46-080. Set of 3 Wrenches, NET... 10c

Fig. J. WIRE STRIPPER. Strips insulation from wire easily and cleanly. Does not damage wire. Has tempered steel cutting edge. Saves you time. Shpg. wt., ½ lb.

46-083. NET.

Fig. K. KEYHOLE HACKSAW. A handy tool for use in the home and workshop. One blade efficiently cuts all metals, woods, plaster, wall-board, conduit, metal lath, etc. Ideal for tight places. 7½" interchangeable, 180-tooth blade. Shpg. wt., 1 lb.
46-085. Frame and Blade, NET. 29c
46-086. Extra Blades. EACH. 12c
46-087. Package of six blades 65c

46-091. QUALITY HACKSAW BLADES. Finest American-made hacksaw blades. They are hard and flexible to withstand tough use. 8" long, 1/6" wide. Set contains one fine and one coarse blade. Shpg. wt., 6 oz. 10c

Fig. M. ELECTRIC RADIO TWEEZER. Finely tempered spring tweezer. For delicate work, Holds wires, nuts, screws, etc. 46-095. NET EACH.

MAKE ALLIED YOUR RADIO SUPPLY **HEADQUARTERS**

Quality TOOLS FOR EVERY PURPOS

LENK QUALITY BLOW TORCHES



43-700. Fig. A. No. 104. Gasoline blowtorch. Leak-proof and non-clogging; features flame-control and shut-off valve to eliminate evaporation of fuel and loss of pressure. Extremely simple to operate. Control regulates flame size. Fool-proof design and sturdy construction; has self-cleaning orifice. Produces a 2000° F. flame. Generates quickly from asbestos-lined drip-cup. Height 7½"; diameter at base 3"; capaeity 3, pint. Shpg. wt., 2 lbs. \$1.59

43-701. Fig. B. Number 66 dou-ble-barrel type Blowtorch. Leak-Blowtorch. Leak-proof; uses ordinary alcohol to produce in-tense flame. No pumping or blowing necessary; easily loaded through screw-top. Cap pre-vents evaporation. 6½" x 2½" x 1½". Wt. 1 lb. \$1.10

(A)

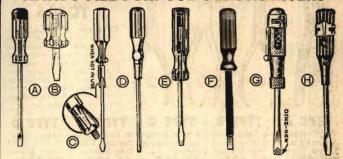
43-702. Fig. B. No. 24 Blowtorch. This efficient torch is entirely automatic in operation. Uses alcohol for fuel. Made of heavily-plated metal. Solid leakproof case. Has copper heat conductor. Used for light work. No pumping or blowing. Size, 5½ x 2" x 1". Shipping wt., 1 lb. NET..... 69c

WALSCO STAPLE DRIVER AND ACCESSORIES

Fig. A. Automatically staples wires in corners, behind pipes, into moldings, etc. Works even on hard surfaces, such as plaster, mortar and soft concrete. Staple depth can be regulated to avoid damaging wire insulation. Holds 23 staples; for wire up to ½" in diameter. Easily loaded. Trigger-operated feeding mechanism. With box of staples. Useful for general stapling, sign-posting, refrigeration gasket work, etc. Indispensable for Radio or PA Servicemen. Wt., 2 lbs. \$3.33

43-703. No. 105. Similar to No. 104 above in construction and appearance, except uses alcohol for fuel. Develops hot blue flame free of soot and smoke. For use and smoke. For use wherever gasoline is not readily available. Tank of heavy gauge sea mless metal. Height 7½°; 3° base. 2 lbs. \$1.76

HANDY ALL-PURPOSE SCREWDRIVERS



43-800. Fig. A. Rustproof, tooled steel hlade, accurately ground to fit screw slot. Slipproof, transparent amber handle and 3" blade.

43-801. 6" Blade......43c 43-802. 8" Blade......45c

43-815. Fig. C. "HOLD-E-ZEE." New screwdriver with spring action gripper for set-ups in awkward places. 3" tempered steel blade; sure-grip amber handle. NET...... 35c

43-816. 4" blade. EA....47c 43-817. 6" blade. EA....49c

43-825. Fig. D. "PHILLIPS" SCREWDRIVER. Used for recessed head screws; necessary for servicing many new sets. Has standard wood handle. 3" blade. For No. 4 size and smaller. 25c

43-835, Fig. E. SUNDT NEON "FIRE DEVIL." Fine quality screwdriver. Built-in neon tube in handle glows when contact is made. 4½" overall. Transpar-ent handle, 1½". Blade, 2½". In-sulated for 5000 volts. EACH.

43-836. Handle, 3¼". Blade, 3¼". 15,000V. 7" overall.... 59c

43-860. Fig. F. INSULATED BLADE TYPE. 10,000 V. insu-lated screwdrivers. Red and black composition handle. 5° in-sulated steel blade. NET.. 15c 43-861. 61/2" blade. NET. 19c

43-850. Fig. G. Non-skid, shock-proof, with ribbed point. Genuine Amberlite handle; with clip. 3° blade.
10 FOR \$1.53. EACH.... 17c 43-851. 2" blade. 10 FOR \$1.44. EACH 16c 43-852. 11/2" blade. 15c

43-870. Fig. H. Narrow blade screwdrivers. For set-screw knobs and balancing trimmers. Overall length, 45%. Hardened 21/4" blade. Amber handle with clip.

10 for 90c. EACH...... 10c

43-871.6'L., 4" blade, less clip. 10 for \$1.35. EACH....... 150 Average shipping weight of above screwdrivers, 8 oz.

G.C. CABINET REPAIR KIT





REPAIR CEMENT

Used for repairing loose coils and speaker cones. Rapid drying. Kit consists of 202. can of cement, 202. can of thinner, and a brush. 1 lb. 33c

43-116, NET.....

BAKELITE CEMENT

For cementing bakelite to bakelite or to other materials; metal parts to metal; speaker cones; glass; loose inserts; molded tube bases, etc. Handy for radio repair and building.

43-117. 20z. Can. Wt., ½ lb. NET 24c
43-118. 8 oz. Can. Wt., 1b. NET ... 75c

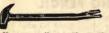
WALSCO RADIO NECESSITIES



43-120. NET... Quick-drying; water-proof. Heat-proof. 1½ oz. tube. Wt. 8 oz. 43-122. Multi-Use Cement, Water-proof; heat-resisting. For plastics, metal, wood, glass, etc. 1½ oz. tube. Wt., 8 oz. 43-123. Fabric Cement. For grill cloth, turntable felt. 1¾ oz. tube. Wt., 8 oz. NET EACH.

NET EACH.
43-124. Walscolub B. Eliminates noise on contacts. 1½ oz. tube. Shpg. wt., 8 oz.
43-125. Motor and Gear Lubricant. For phono-motors, etc., 1½ oz. tube. Wt., 8oz. 21c

KRAEUTER UTILITY HAMMER



5-IN-1 WIRE STRIPPER



New 5-in-1 handy tool acts as stripper, scraper, cutter, wirebender, and screwdriver. Constructed of finely tempered alloy steel. Shpg. wt., 8 oz. 15c

VACO PHILLIPS-TYPE SCREWDRIVER KIT



Indispensable kit of five screwdrivers for all Phillips-type screws. Amberyl shock-and break-proof handles have good insulating properties; high-carbon steel blades. P10 is 5½" long; for No. 4 screws and smaller; blade. ½x3". P20 is 3½" long; for No. 5 to 9 screws; blade. ½x44". P30 is 10" long; for No. 10 to 16 screws; blade, ½x6". P50 Stubby is 3½"; for No. 5 to 9 screws; blade, ½x1½". P60 Stubby is 3½"; for No. 4 and smaller screws; blade, ½x1½". Wt., 2 lbs.
43-880. Complete Kit. NET... \$2.35

INDIVIDUAL SCREWDRIVERS

43-885. No. P10. 41c 43-888. No. P50. 47c 43-886. No. P20. 53c 43-889. No. P60. 44c 43-887. No. P30. 68c

HANDY VACO 1/4" NUT-DRIVER

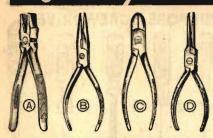
Break-proof A m b e r y 1 shock-proof in-sulated, ¼-inch hexagon-socket nut driver. Hollow-shaft 1¾" deep. 5%" x 6". 6 oz. 53c

VACO CONDENSER-NUT WRENCHES

For easy removal or tightening of electrolytic condenser mounting nuts. 2' steel socket easily holds long lug or lead terminals. Has Amberyl chip-proof, shock-proof bandle, Size: 7'. 8 oz.

43-894. For 1" Nuts. \ NET 43-895. For 11/4" Nuts. | EACH.... 90c

Quality TOOLS FOR EVERY PURPOSE

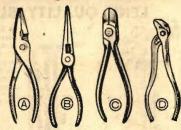


KRAEUTER TOOLS

Kraeuter "K" brand fine-quality dependable tools are made to exacting specifications, yet are priced to save you money. Have blue-tempered fin-ish. Made of high-quality steel with hardened, tem-pered inwa Averses shoe pered jaws. Average shpg. wt., 10 to to 16 oz.

POPULAR-PRICED RADIO PLIERS

Fine values in American-made pliers for radio and electrical work. Carefully made of hard-ened steel; stouthy built to give long, reliable service. Every service man, experimenter, and Amateur can use these pliers to good advantage. Offered in four types for every requirement at attractive prices. Wt., 10 oz.



TYPE A

6½" Electrician's
Type Pliers.
46-400.
NET....

TYPE B 6 Inch Needle-Nose Side Cutter. 46-401. NET....

\$108

TYPE C 5 Inch Diagonal Cutting Pliers. 46-402.

99.

TYPE C 6 Inch Diagonal Cutting Pliers. 46-403. NET.... \$ 20

TYPE D 6 Inch Semi-Duckbill Type Pliers. Type Plier 46-404. NET....

\$ 145

TYPE B

TYPE A Sturdy 6 Inch Thin Nose Type 46-405. NET

5½ Inch Special Long Nose Side-Cutting Pliers. 46-406. NET....

TYPE C

5½ Inch Diago-nal-Cutting Type Pliers. 46-407.

TYPE D

Midget Pliers; 4 Adjustments up to %-inch. 46-430. NET.....

29









TYPE E

8½" Line-man's Heavy-Duty Side-Cutting Type. 46-408. NET....

7 Inch Extra Long-Nose Side Cut-ting Pliers. 46-409. NET....

6½" Heavy-Duty Diag-onal Cutting Pliers. 46-410. NET.

TYPE H 5-In. "Sure-Grip" Type Ignition Pli-

46-411. NET

TYPE I Octagon Center Punch. 1/8"



HEAVY-DUTY DELUXE

A lift-out tray chest of heavy 22-gauge cold rolled steel. Built for hard usage; has double-lock seams, heavy corner reinforcements, paneled ends and cover, continuous hinge. Patented Padlock Eye welded to inside of chest, plus regular key lock, permits double locking. Hard-baked enamel finish in ripple grey; cadmium plated hardware. Size: 19'x 7'x7'. Shpg. wt., 8 lbs. \$2.20



"LINEMASTER" FOOT TREADLE POWER TOOL SWITCH

A ruggedly-built 4-pole snap-action switch mounted in a sturdy, cast-iron casing. Pressure of foot on treadle switches power on and off, allowing you to keep both hands free for work. Switch is fully enclosed and hooded for protection against dirt. Useful for drill presses, punches, stampers, and all other power-operated machines or devices where hand-controlled switch is inconvenient and time-wasting. Rated at 20 amps. on 220 V., 40 amps. on 110 V. Light gray enamel finish. Size: 7" long, 4" wide, 3½" high. Shpg. wt., 7 lbs.

46-450. Press to start, press to stop. 46-451. Hold down for closed circuit. NET EACH....

RADIO TOOL CHEST KIT

ALL-PURPOSE STANDARD
An all-purpose Utility Chest,
Service Kit, or Tackle Box with
double section detachable automatic-lift tray for housing tools,
small parts, etc. 13½" long, 4½"
deep, 6½" wide. Made of heavy
gauge steel with green mar-proof
enamel finish; watertight. Spillproof lock automatically latches
cover when closed. Has 12" embossed rule on front edge of cover.
With key. Shpg. wt., 3 lbs.

75c

ALL-PURPOSE STANDARD

Handy tool chest with 11 useful tools for servicemen or set builders. Consists of: 3" and 5" screwdrivers, scriber, reamer, countersink, thin long-nosed pilers, center punch, socket wrench set from 1/4" to 1/2" for hexagon and knurled nuts, and 3 hexagon nut wrenches from 1/4" to 1/2". Durable, dark blue and gold fiber-board cabinet, with tray, 91/4" long, 51/2" wide, 11/4" are those most frequently used. Shpg. wt., 2 lbs. 46-040, NET



ACRO CHASSIS CRADLE

Permits locking any radio set or amplifier, chassis in any position for circuit alignment, test, or replacement of parts. Prevents damage to tubes or other parts. Ideal for radio school instruction. Mechanical clamp holds chassis firmly in place. Adjustable base takes any size chassis up to 21" long. Made of coldrolled heavy steel. Shpg. wt., 5 lbs. 86-030.

NET. \$3.50

86-031. Extra set of clamps...\$2.45

MASTER STEEL TAPE RULES

A steel tape rule for inside, outside, height, depth, and layout measurements. Rule has double-edge marking. Wt. 60z. 46-045. \$1.20 \$1.29



46-046. In round metal case without lock. NET.....

high. Tools



JUSTRITE SOLDERING IRON AND BLOWTORCH

A sturdily built soldering iron and blowtorch combined. Ideal for use where power line is not available and where heavy-duty soldering or melting work is to be done. Works 30 min. with valve wide open on one filling of 1½ oz. of gasoline, naphtha, or benzine. Self-generating; requires no pumps or pressure systems. Easily operated regulating valve controls size of flame. Heavy brass shell to withstand high pressures. Bakelite casing over shell for cool grip. With two heavy %" removable type tips. 12¼" long. Shipping wt., 1¼ lbs. \$2.95 43-710. NET.....



MAGIC STYLUS SOLDERING PENCIL

Ideal for soldering small parts in hard-to-get-at corners. Heats quickly, insulated handle with cork finger guard. With 5ft. cord. Underwriters' Approved. Shpg. wt., all types, 1 lb.
46-500. 110 Volt AC or DC Type.

46-501. 6 Volt DC Type. 78c

46-502. 25 WATT. 110 V. AC-DC. Heavy-duty pencil. Has ¼" tips. Mica-insulated element. With 3 tips, 6 ft. rubber cord, and stand. NET. 95c ...\$1.25



DRAKE NO. 3 MIDGET **40 WATT SOLDERING IRON**

An unusually handy, midget-sized iron, tested and approved by Underwriters' Laboratories. Especially suitable for light radio work, for soldering in crowded quarters, or for use as a spare iron. Overall length only 10 inches; has ½" screw-on removable tip and shaped wood handle. 40 watt element. With 6-foot approved rubber cord and plug and convenient metal resting stand. Quick-heating "extra" iron complete with container for convenient storage in every Servicenan's tool kit. For 110 Volts AC or DC. Shpg. wt., 1 lb.

SOLDERING IRONS & ACCESSORIES

KNIGHT SOLDERING IRONS



UNDERWRITERS' APPROVED-WITH STAND

Here are splendid values in efficiently designed, sturdily built soldering irons at exceptionally low prices. These new Knight Soldering Irons are Underwriters' Approved with extra safety factors built in. Special features include: replaceable screw-on type, hard drawn copper tip; black rubberoid handle, shaped for casy gripping; tough, well-finished polished nickel case; 6-ft. cord with spring cord protector and unbreakable rubber plug. A convenient metal stand is included with all models. These quality irons are built to stand up under heavy use. 1/2" copper tips. Operate from AC or DC. Shipping weight of each iron, 3 lbs.

75 WATT IRON

46-600. For 110-120 \$1.39 46-602. For 110-120 \$2.15

46-601. For 220-250 \$ 1.52 46-603. For 220-250 \$2.35

100 WATT IRON

KESTER SOLDERS

Compounded of the highest grade tin and lead, Flux Compounded of the highest grade tin and lead. Flux filling assures perfect perma-nent joints free from corro-sion. Aluminum solder ab-solutely holds aluminum, Save money—buy the handy one or five pound spools.

| ROSIN CORE | ACID CORE | No. NET | No. NET | A6-900 | 17c | 46-905 | 17c | 1b. spool | 46-901 | 64c | 46-906 | 64c | 64c | 56c | 64c | 46-905 | 3.00 | 46-907 \$3.00 |

ALUMINUM No.

SOLDERING PASTE



A new improved sol-dering paste. Does a clean, non-corrosive job of soldering, Uni-form quality and uni-form fluxing strength;

ideal for radio work.

46-915, PER TIN.... 12c 10 FOR......\$1.05

TINNING BLOCK

KESTER

RADIO SOLDER



Cleans and "tins" soldering irons or coppers very quickly. Replaces ordinary salammoniac. Won't crumble or corrode. Convenient to use. 46-920. 14 lb. NET... 46-921. 12 lb. NET... 46-922. 1 lb. NET...

DRAKE SOLDERING IRONS AND ACCESSORIES



STANDARD MODELS

Underwriters' Tested and Approved. Sturdy dependable irons for all shop or service requirements. With an "Easy-Grip," non-tiring wood handle. Heating elements are of highest-grade nichrome wire wound on genuine amber mica; reach soldering heat quickly. Equipped with spring to protect line cord. Tips nickel coated to prevent corrosion. With 6 foot approved cord fitted with soft rubber plug. Handles remain cool. For 115 V. AC or DC operation.

46-521. 60 Watt. Length 12"; ¾s" screw-on tip. Ideal for any light solder work. Wire element extends into tip for faster heating. With stand. Gun metal finish. Wt., 1 lb. 71c

46-522. 80 Watt. Length 13"; 3%" tip, plunger type. For light radio work. With "Magic Cup" stand. Wt., 1½ lbs. \$2.06

46-523. 100 Watt. Length 121/2", 3/8" tip, plunger type. For medium-heavy work. With "Magic Cup" stand. Wt., 2 lbs. \$2.44

DRAKE 7-INCH STAND WITH "MAGIC CUP"



This new idea in a soldering iron stand saves time and keeps condition. Sturdy metal stand has "magic cup" built in at one end. Just insert tip of iron into cup, twist, and oxide is removed. Shpg. wt., 1 lb.

46-525. NET..... 46-526. As above, but less cup. NET. 18c



DELUXE MODELS

High quality irons designed and constructed for light duty production work. Approved by Underwriters' Laboratories. Finest grade nichrome wire element wound on amber mica. Bright finish housing. Copper tips are bright dipped to resist corrosion. Aircooled baffle plates mounted at rear of element housing keep handle cool at all times. Spring guard prolongs life of heater cord. Larger surface for rapid radiation of heat provided by cooling fins. With 6 foot heater cord, soft rubber plug, and 7 soldering stand. For 110 V. AC or DC. Removable tips. Shpg. wt., 2 lbs.

46-530. 125 Watt. Length 12'; tip diameter 1/6'. Extra hot iron for Service- \$2.94

46-531. 200 Watt. Length 14'; tip diameter 5'4'. For auto radio installation work, lamp wiring, home repairs, light factory \$4.25

46-535. 36 Replacement Tip. 1/2 lb. . . 29c 46-536. %" Replacement Tip. 1/2 lb... 47c



DRAKE "400" MIDGET

An extra small iron. Ideal for connections close to chassis and coil shield work on midget sets, electrical meters, hearing aids, and other light jobs in home or shop. Length, 9°; weighs only 8 oz. 60 watt element with ½" tip. Nichrome wire wound on amber mica. With 6 ft. cord, rubber plug, and "Magic Cup" soldering stand. For 115 V. AC-DC. Shpg. wt., 1 lb. \$2.65

ECONOMY MODELS

Excellent irons for light work and tight corners. Element wound of highest quality nichrome wire on amber mica. Comes complete with 6 ft. heater cord, rubber plug, and small stand. Gun metal finish. Shpg. wt., 1 lb.

46-540. 65 Watt. 121/2" long. \$1.32 1/4" tip. Shpg. wt., 1 lb. NET..... 46-541. 100 Watt. 13½" long. \$1.76 3/6" tip. Shpg. wt., 1½ lbs. NET... 46-542. 1/4 Dia. Tip for 65 watt iron. 1/2 lb. (see center col. for 3/8 size). NET 240

DRAKE HEAT CONTROLS

Keeps iron heat-ed to proper tem-Reducperature. es operating cost.
Dull nickel
finish. Shipping
weight, 3 lbs.

46-543. Type 300H. NET....

46-544. Type 300. Same as above but without shield, NET....



AMERICAN BEAUTY IRONS

Finest quality irons for 115 volts'AC or DC.

Type 3138. 100 Watt. Adapted for production work on radio, ignition, telephone, etc. 16 oz.; length, 12½; tip dia...½; 6 foot cord. Highly polished, chrome-plated metal parts. Complete with stand. Wt., 2 lbs. \$5.45.46-655. NET. \$5.45.

REPLACEMENT ELEMENTS

46-665. For type 3158 Iron. ½ lb. .\$3.50 46-666. For type 3138 Iron. ½ lb. . 2.75

IRON CLEANER AND TINNER

Keeps your iron "Silver Bright." Cleans and tins in one operation. Saves your time. Improves work-manship. Shpg. wt., 1 lb. 46-680. NET





JACKSON SOLDERING IRONS

A high grade line of electric soldering irons. Elements are wound on amber mica insulation over steel core. Supplied with plunger tips. For 115 V. AC-DC. 6 foot cords. 1½ lbs. eacb. 46-620. 75 Watt. Has \% copper rod tip with set screw. Nickel-finish tube. \$1.85 \$1.85

46-621. 100 Watt. Has 3/6' copper tip. 121/2' long. Removable handle. \$2.59



CORE SOLDER A dependable, rosin-

ICA SOLDERING IRONS

Element is of the highest quality resistance wire. Will heat in three minutes. Handle remains cool. Plunger tip is easily removed. Stand supplied. For 115 volts, AC or DC operation.

46-635. 60 Watt. A medium weight iron for most encountered types of ra-\$2.35 dio work. 16 tip. Wt., 2 lbs. NET. \$2.35 46-636. 85 Watt. A good general-purpose iron. 16 tip. Shpg. wt., 21/2 lbs. \$2.94

46-637. 115 Watt. Heavy Duty type; has %6' plunger type tip of adjustable length. Shpg. wt., 3 lbs. \$3.50

SOLDERING IRON TIPS

High quality replacement plunger type copper tips. Fit all standard irons. Shpg. wt., ½ lb. Size 5/16×27/8" 3/8×33/4"

INTERFERENCE ELIMINATORS · FILTERS

AEROVOX FILTERS



TYPE IN-24 ELIMINATOR

- Eliminates power line interference
- Completely factory-
- Simple one-minute installation

Completely eliminates all power-line noises when connected between noisy motor and line. Greatly reduces man-made static from electric motors, vacuum cleaners, washers, and other inductance as well as capacitance for thorough filtering action. Aerovox Interference Eliminators increase your radio enjoyment. No tools needed—just plug in and connect to ground. Handles 3 amps. Complete with cord and plug. Size: 4*x2½*x3½*. For 110-220 volts, AC-DC. Wt., 31bs. \$279



TYPE IN-29 FILTER

Effective for reduction of interference which is variable in character but strong in intensity, Ideal for eliminating noise caused by electric razors and other vibrating devices. (Max. V., 125 AC or DC.) 138x3". 1 lb.

70-301. NET...........44c



TYPE IN-30 FILTER

Similar to IN-29, but provided with inductance in addition to capacitance for elimination of more intense interference. May effectively be used either at source of interference or at radio set. Size: 1 ½ x 3*. Wt., 1 lb.

OTHER AEROVOX FILTERS

TYPE ANL-37 INTERFERENCE ANALYZER



Contains the seven fundamental filter circuits, one of which will eliminate the interference being traced. Plugs into power-line ahead of radio receiver or noise-producing device. Rotary selector indicates proper filter (by Aerovox type number) to be used for best results. Supplied with complete instructions. In metal case, 5½° x 5½° x 8°, For AC or DC. Shpg, wt., 61bs. \$6.86



ICA ALL-WAVE FILTERYOLT HEAVY-DUTY TYPE

A new and improved noise filter, especially designed for eliminating interference in all-wave receivers. Can be installed at the radio or at the source of noise. Contains heavy-diffective for eliminating noise caused by heating-pads, automatic-irons, toasters, vacuum cleaners, etc. Rated conservatively at 250 watts. For use on 32, 110 and 220 volt AC or DC. 5x4x41/4". Shpg. wt., 5 lbs.

ICA STANDARD FILTERYOLT



An efficient filter to elim-inate noise-interference An efficient filter to eliminate noise-interference from all types of electrical appliances. For installation directly ahead of radio set or at source of noise disturbance. For 110 or 220 volts, AC or DC. 4½" x 3½" x 1½". Wt., 1½ lbs. \$2.06

END RADIO NOISE!

To find source of noise, connect aerial post of radio to chassis or ground. If noise stops, an all-wave antenna is required (see pages 182-3). If noise persists, select a line filter to be installed between noise source and power line.

TACO H-F ALL-WAVE LINE FILTER

A composite filter containing three complete filter circuits. Covers shortwave and ultrashort-wave as well as the standard hreedcast bands



as the standard broadcast bands. RF choke filter system stops noises that would ordinarily enter the set through the power line. Most efficient when installed on the interference-causing device. Operates on either AC or DC devices drawing not more than 200 watts at 120 volts. Measures only 4"x4"x5". Easily installed without tools. Plug in and connect to ground. With attachment cord and unbreakable rubber plug. In brown metal case. An effective filter. Sbpg. wt., 5 lbs.

70-380. Model 100. NET.....

MALLORY NOISE FILTERS

TYPE LC-10

Inductance-capacity filter for eliminating



70-320. NET....

TYPE X5 FILTER

For use with vacuum cleaners, food mixers, etc. Use between the electrical appliance and the 110-220 volt power line. Has binding post for grounding to frame of appliance. Triple capacity filter. Blocks interference at source. Handles up to 5 amps. 11/8" x 21/8". 1 lb. 73c.



TYPE Z2. A capacitor-inductance plug-in type filter for medium interference such as electric razors, small motors, etc. Most effective on grounded line systems. Size, 11/6" x 21/4". Rated at 3 amps. For 110-220 V. Wt., 1 lb. 68c

TYPE Z4. A dual inductance-capacity plug-in filter for severe interference. For use at radio or noisy appliance. Size, 1½° x 3°. For 110-220 V. AC or DC at 3 amps. 1 lb. 79c 70-323. NET.

TYPE ZA1. Antenna substitute. A capacity and inductance combination using house wiring as an antenna. Plugs in power line socket. Size, 136" x 134". Wt., 1 lb. 59c

TYPE W7SP. A filter for drink mixers, drills, etc. 1/8" x 113/6". Wt., 1 lb. 44c

37-007. Mallory Noise Elimination Circular. Lists all types of Mallory noise filters. Sent FREE on request.

NOISE-ELIMINATING

MODEL 7 AC-DC POWER LINE FILTER

An easily installed Tobe capacity type line-filter which will effectively eliminate line-noises. Plugs into electric light socket or wall receptacle. Receiver plug fits into top of filter-unit. Materially reduces disturbing radio interference from power lines. For 110 volts, AC or DC. 1% \$2½. Shpg. wt., 1 lb.



RAZOR FILTERETTE



MODEL RF-2

Designed to eliminate noises coming from the power line. Effective fil-tering is attained through tering is attained through combining capacity and inductance in one care-fully engineered unit. For installation between set and power line. For 110-130 volts, AC or DC. 250-watt capacity. 4x3x2". Shng. wt. 2 lbs. watt capacity. Shpg. wt., 2 lbs.

70-342. NET.....



OB-31 FOR OIL BURNERS

Specially designed for oil burners but also may be used on motors up to 2½ amps at 110 volts AC or DC. Has dual RF chokes and correctly designed capacitors for maximum filtering efficiency. In utility type box, 4"x2"x2", with ½" knockouts for BX or conduit. Underwriters' Approved. 6 lbs. 70-343. NET.....



CONTINENTAL FILTERNOYS

Eliminate or materially reduce "man-made" static caused by vacuum cleaners, refrigerators, shavers, mixers, etc. For 110-120 Volts, AC or DC.

70-350. Type R01 DH. Plug-in Rejector-type. For use between radio and power outlet. 5-amp. capacity. Fully insulated. 25%x13%. 8 oz. 590. NET.

70-351. Type F01 DH. Plug-in Suppression type for elimination of noise at motors using less than 300 watts. Max. Volts, 120 AC 59 or DC. Shpg. wt., 8 oz. NET.

TYPE GOIDH

70-353. Type L02DH. Designed especially for fluorescent lights. 5 amps. 11/8×11/4×67/87. Shpg. wt., 2 lbs. \$1.47

TYPE F1005DH

A heavy-duty suppression-type filter, employing two chokes and two condensers for maximum filtering efficiency. Ideal for use with oil burners, neon signs, motors, etc. Size, 4½ x3 in diameter. Rated at 10 amps, 110-220 V. AC or DC. Shpg. wt., 2 lbs.

... \$2.94

70-355. Type F05D. Diverter type, For up to 220 volts, regardless of watts load. 44% x 2½. Shpg. wt., 2 lbs.





INTERFERENCE ELIMINATORS · FILTERS

SPRAGUE PROFESSIONAL METHOD OF NOISE ELIMINATION

Locate and eliminate noise interference by scientific analysis. Only three simple steps: (1) locate the trouble with the Interference Locator; (2) determine the remedy with the Interference Analyzer; and (3) install the correct filter from the list below. Countless radio receivers need this service. Specialize in noise elimination work in your locality. You'll find that it is easy and profitable.



THE SPRAGUE MASTER INTERFERENCE ANALYZER

This sturdy, portable instrument determines quickly and accurately the proper type of filter needed to eliminate noise. Widely used by power companies, servicemen, etc. Easy to use. Simply connect analyzer into the circuit of any device causing radio interference. By rotating the selector switch any one of 60 different filter combinations is connected into the circuit, to determine the correct filter for installation. Interference booklet and chart supplied free. For 110-220 V. AC or DC. Wt., 8 lbs. \$23.94

SPRAGUE INTERFERENCE ELIMINATOR CONDENSERS & CHOKES





Eliminate inter-ference at the source. All units except LF-2 for 110 or 220 volts, AC or DC.





70-100. IF-15. Fig. B. A triple-section filter for small motors used in mixers, fans, drills, etc. RMA recommended design. Size, 2½" x 1" dia. 6" leads. Shpg. wt., 8 oz. 73c

70-101. IF-25. Fig. A. Double-section filter for medium-sized motors up to 1 H.P., and to 220V. Used on grinders, drill presses, etc. 3½″ x 1¾″ dia. Wt., 8 oz. \$1.32

70-102. IF-G1. Fig. B. Metal encased, single-section filter for use on brush connector of generators, converters, etc. Case grounded. 1%' x 1%' dia. Shpg. wt., 6 oz. 32

70-103. IF-G10. Fig. A. High-capacity, single-section filter with enclosed terminals. Used with IF-11 on 3-wire distribution systems. 3½" x 1½6". Shpg. wt., 8 oz. \$ 1.18

70-104. IF-11. Fig. A. Dual high-capacity filter for heavy industrial uses. Size, 41/4"x 11/2". 6" leads. Wt., 1 lb. \$1.68

70-106. CH-1. Fig. C. Metal encased choke of adequate inductance for R.F. filtering. 10 Amp. size, 3½" x 1½" x 1½". 79c Shpg. wt., 1 lb. NeT.
70-107. LF-2. Fig. D. Multi-section filter for electric shavers, hair dryers, and other units up to ½ amps. 115 V. AC-\$2.06

RADIO INTERFERENCE MANUAL

Compiled by Sprague engineers





INTERFERENCE LOCATOR

This brand new, completely portable, self-contained Model IL-2 Interference Locator will take the kinks out of one of the Serviceman's toughest jobs. Enables you quickly to determine the source, extent, and remedy of all kinds of interference. Consists of a specially designed, portable battery receiver with full three-band range: 500 to 1700 KC, 1.7 to 5 MC, and 15 to 32 MC. Employs extendable pole antenna as well as demountable loop antenna in a special antenna circuit for excellent sensitivity. Sensitivity is less than 1 MV for 10% output meter scale deflection. Includes built-in loudspeaker plus headphone jacks; sensitive, easy-to-read two-range output meter; and AC-DC cord connectors for line operation when desired. Supplied complete with batteries in a rugged metal case. 15'x11'x8', with detachable cover and convenient handle; loop antenna is carried in cover recess when not used. Shpg. wt., 23 lbs.

879.90

515.98 down, \$8.79 monthly for 8 months.

\$15.98 down, \$8.79 monthly for 8 months. Write for prices of coaxial cable with connectors for use of pole antenna as probe.

CORNELL-DUBILIER "QUIETONE" FILTERS



FOR USE AT RADIO RECEIVER

MODEL 1F-18. An efficient all-wave, capacitive-inductive, sectional-band type filter for use between radio receiver and power line when interference conditions are severe. Has binding post for making ground connection. In walnut hakelite case. 110 V. AC-DC at 5 amps. 5x3½x2½. Shpg. wt., 6 lbs. \$2.94

MODEL 1F-4. Ideal for use with small radio receivers, such as AC-DC midget sets, etc., where noise level is not too severe. Connects in

FOR USE AT APPLIANCES

MODEL 1F-5. For small appliances such as food mixers, hair dryers, etc., where radio interference is of low intensity. 110 V. AC-DC at 5 amps. Walnut finish. Wt., 11b.

70-123. NET.

MODEL IF-6. For all types of home electrical appliances where interference is of moderately low intensity. Installed between appliance and powerline with short return lead which reduces radiation. 110 V. AC-DC at 5 amps. Walnut finish. Size: 2'x1\%' dia. Shpg. wt., 11b. 73c70-126. NET

MODEL IF-20. A plug type filter for small electrical appliances where interference is very low. 110 V. AC-DC at 5 amps. Bakelite case; walnut finish. Shpg. wt., 1 lb. 29c

MODEL 1F-22. Special filter with 6 foot rubber line cord and plug for electric shavers. 110 V. AC-DC. Shpg. wt., 11b. 70-128. For Schick, Knapp Monarch, etc. 70-129. For Packard, Reming- \$1.03 ton-Rand, etc. NET EACH

MODEL IF-7A FOR INDUSTRIAL USE

An ideal filter designed to block severe radio interference caused by motors, generators, stokers, diathermy machines, oil burners, etc., and especially suitable for factory, office, and apartment building installations. This Quietone consists of low-loss coils and highest quafity capacitors that will correct noise conditions in both Broadcast and Short-Wave receivers. A heavy-duty, capacitive-inductive filter for single phase, 110-220 V.AC-DC at 5 amps. Housed in a heavy metal cut-out box, with hinged cover, finished in grey enamel. With knockout holes for BX or conduit connectors; ready for wall mounting. Size: 6 x 6 x 4". Shog. wt., 9 lbs.



MEISSNER WAVE TRAPS

Interference created by powerful local stations, code and long wave signals can be eliminated by these units. Select a wave trap which will tune to the frequency of the interfering signal. Where frequency of interference is not known, use dual model. Installed in series with aerial lead-in.

70-150. Dual Universal
Model. Ends interference
in broadcast, police and 1F
bands. 400-475 KC and 550-1950 \$1.71
KC. Wt., 2 lbs. NET.

FOR BROADCAST BAND

"A" operates on low frequency broadcast. "B" on medium frequency broadcast. "C" on high frequency broadcast. "D" eliminates IF interference caused by code, etc. Av. wt., 2 lbs.

Stock No.	Туре	Freq. Covered	NET
70-151		400 to 700 K.C.	EACH
70-152		650 to 1000 K.C.	70
70-153	C	950 to 1600 K.C. 456 K.C. (shielded.	1 7c
70-155	Ď	456 K.C. (unshield	ed) 41c
70-156.	Delux		The latest and the la

trap. 2-section trap for single frequency elimination. 550 to 1950 KC. NET \$1.71

FOR AMATEUR BAND

70-168. Deluxe Dual Amateur Wave-trap. For eliminating interference simulta-neously in the 40 and 80 or 80 and 160 meter Amateur bards, Covers 1.5-7.5 MC...\$1.71

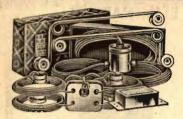
RCA No. 33033 WAVE TRAP

Attenuation 40 to 1 over entire broadcast band. Eliminates interference from commercial, ship, police, and annateur stations. Also tunes out interfering broadcast stations. Range, 450 to 2100 KC. No signal loss. 1 lb. \$ 1.09



ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL. 181

ICTOR & ACCES



RCA "SPIDER-WEB" ALL-WAVE ANTENNA

RCA's finest antenna. Insures greater signal pickup on every band with maximum noise rejection. Gives excellent all-wave reception over a frequency range from 140-23,000 K.C. Installation simple. Kit includes: 6 coils of 7 x 22 stranded antenna wire; 2 hangers; 1 coil of lead-in wire; receiver and antenna coupling transformers; 7 "U" clips; 2 antenna transformer connectors; complete instructions. For use with any receiver. Wt... 6 lbs. \$5.26

51-063. No. 9689. This kit when added to the Spider-Web increases range to cover from 23 to 70 MC. Shpg. wt., 2 lbs.

88c



RCA "MAGIC-WAVE" ALL-WAVE ANTENNA

Factory-wired. Up to 16 radios may be operated from one installation. Kit includes Receiver and Antenna Couplers with built-in lightning arrester; 60' Antenna Wire; 45' Transmission Cable: 5 insulators; Ground Clamp. Shpg. wt., 5 lbs. \$3.50 51-060. No. 9812. NET. \$3.50 \$51-065. No. 9849. Antenna Coupler only, with built-in lightning arrester. \$1.18

\$1.18

51-066. No. 9814. Distribution Transformer-Use one for each 4 additional sets. \$ 1.76

S1-067. No. 9813. Set Coupler only. For each additional set on one antenna. \$1.47

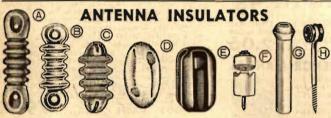


RCA 395 ALL-WAVE ANTENNA SYSTEM

A low-priced antenna that will improve the performance of any type of set. Fully assembled and ready to install. Provides improved signal pickup and high signal-to-noise ratio. Transmission line and receiver coupler help eliminate noise. Consists of 2—20 foot coils of antenna wire, 2—strain insulators, 60 foot transmission line, 1—junction box, 1—receiver coupler, 2—coupling links, 2—nail-knobs, 1—ground clamp, and complete instructions. Requires little space; span is only 40 feet. Shpg. wt., 5 lbs 51-061.

S2.32

51-064. No. 12855. Receiver Coupler Unit



A splendid selection of sturdy insulators for practically every applica-tion in antenna installation. Each type of insulator is made of the finest quality material to assure dependable service. Av. wt., ½ lb. ea.

Stock No.	Fig.	Size	Description	EA.	10 For	100 For
51-200 51-201 51-250 51-255 51-256 51-257 51-260	A B C	3%" 7½" 3" 2½" 4" 5" 1¾"x¾"	Pyrex glass, 250W Pyrex glass, 1000W Glass type. Glazed porcelain. Glazed porcelain. Lo-loss white porc.	79c 3c 3½c	:24 :31 :49	\$2.16 2.79 4.41 7.29 1.92
51-261 51-265 51-270 51-271 51-275 51-276	EFGGHH	6"x516"1.D. 3" porcelain.	Brown glazed porc. Porcelain nail knob Porcelain tube Porcelain tube Eye wall insulator Eye wall insulator	70 30 20 21/20 31/20	.24	5.67 1.92 1.62 1.80 2.16 2.79

ANTENNA LIGHTNING ARRESTERS



51-280. Fig. A. Approved by Underwriters'. Porcelain construction with screw terminals. Shpg. wt. 10 oz. 10 FOR 81c. EACH.... 9c

51-281. Fig. B. Bakelite construction. Underwriters' Approved. For single wire lead-ins. Equipped with screw terminals. 1 Ib. 1 1c 10 FOR 99c. EACH. 1 1c

51-282. Fig. C. Black porcelain with screw terminals. For any two-wire lead-in or transmission line. Shpg. wt., 1 lb. 17.

51-024, Fig. D. Combination lightning and static arrester, Incorporates choke coil and condenser acting as noise and static reducer and filter, 1 lb. 51c

51-240. Fig. E. Uses Neon element in place of the usual air-gap or resistance. Fully approved by the Underwriters. I lb. EACH. 59c

51-241. Fig. E. Duplex Type. As above but for Doublet antennas. Shpg. wt., 1 lb. 82c

ANTENNA LOOPS FOR MIDGETS & PORTABLES



Replaces antenna coil in battery and midget sets or portables. Insures good signal pickup and excellent selectivity. Eliminates the necessity for using an outdoor or indoor antenna. Inductance is higher than needed; permits removing turns for accurately matching loop to radio. Easily installed in back of set. Two sizes. Shpg. wt., 12 oz.
51-040. 4¼ x 8". NET. 48c
51-041. 7½ x 9½". NET. 51c

O-FINITE OFFICE OF THE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE

SPRING AERIAL



Prevents antenna sag. Powerful compression-type spring. Porclain insulator end-rings. lain insulator end-rin 51-301. EACH... 24

INDOOR ANTENNA WIRE



Exceptionally flexible, fine stranded brown cotton-covered wire. Definitely will not knot. Excellent for AC-DC and midget radio sets or experimental use. Suitable for loop aerials, Easily hidden from view under rugs, behind woodwork, etc. Shipping wt., 1 lb.

49-152. 100 Feet. NET. 39c

49-151, 25 Feet. 8 oz. 11c

GROUND CLAMP



Sturdy ground clamp for radio or telephone use. Has lead-connector and

10 FOR 27c

MUELLER CLAMP



Positive Contact Ground Clamp. Channel construc-tion. Max. bite 114". Case hardened screw. Shpg. wt., 4 oz.

51-310. EACH..... Lots of 10 100 for...6c48c .\$4.32

PLATED GROUND RODS

Copper-plated steel, ¾ diam., with screw clamp for lead-in wire. Shpg. wts. 4 and 6 lbs. Stock No. Feet EACH 10 For 98-570. 4 | 28c | \$2.52 98-571. 6 | 42c | 3.78

PUSH-CLIPS

For fastening cords from radios, wall or floor lamps, to moldings or baseboard. Wt., 3 oz. 52-020. Brown. 52-021. Ivory. Card of 8 Clips. 8c 10 Cards For. 72c

INSULATED STAPLES

Saddle-type, insulated. For radio or lamp cords. 100 to the box. Wt., 2 lbs. 52-030, Per Box of 100. 12c 10 Boxes For., \$1.08

NAIL-IT INSULATED STAPLES

New design. Saves fin-gers—drives like a nail. Won't bend. Locked in-sulation. Copper finish. 52-031. Per Box of 50 ... 7c

20 Boxes For.

\$1.12



WINDOW LEAD-IN

Insulated, weather resistant.

TRANSPOSITION BLOCK

Made of glazed ceramic material. Prevents twisting of transposed lead-in; reduces electrical loss to minimum. 2½" x 1½". Shpg. wt., 3 oz.

51-222. EACH 10 FOR 72c.



GUY WIRE

50-ft. coil of galva-nized steel wire. Strong, tough. Shpg. st. 1 lb. 17c



ADJUSTABLE ANCHOR

Rustproof-steel anchor for keeping guy wires taut. 1 lb. 51-321, NET



LOWEST PRICES. -COMPLETE STOCKS-FAST SHIPMENT 182

ANTENNAS AND ACCESSORIES

TACO ALL-WAVE AERIAL



Standard-wave type kit. Gives maximum signal pickup. Frequency range, 150 KC to 25 MC. Aerial length only 60 feet. Includes dual iron-core transformers for matching to any set; 2 30-ft. coils of stranded wire; 60 foot weather-proof cable, assembled and soldered; 1 screweye; 2 nail knobs; 2 porcelain insulators. Instructions. Shpg. wt., 4 lbs. \$3.97



FREQUENCY MODULATION AND STANDARD WAVE COMBINATION

A self-selecting combination antenna covering all bands including the new Frequency Modulation band. Range is 150 KC to 75 MC. Consists of antenna transformer; 2—30-ft. coils of aerial wire; 60 ft. transmission cable; I screw-eye; 2 nail knobs; 2 insulators; and set transformer. Latter has separate leads for AM and FM bands. Wt., 4 lbs. \$2.94

TACO POWER ANTENNA



Picks up radio signal from power line, filters and matches it to set. May be mounted inside radio cabinet. Wt., 1 lb.

51-005. \$1.18

"VERTROD" VERTICAL MAST ANTENNAS FOR FM AND AM SETS

Type 104. This antenna comes closer to complete freedom from man-made static than any so far devised. At the same time it provides maximum efficiency in the reception of signals from the Standard Broadcast and the new Frequency Modulation bands. Magnetite-core antenna and set transformers plus the special 37½-foot transmission line assure perfect impedance match between antenna and set. The rigid, rustproof elements extend from 3 to 9 feet. Unit has patented rotary base for mounting at any angle. Frequency ranges are 40 to 60 MC and 500 to 1700 KC. Wt., 5 lbs. \$7.06

COMMUNICATIONS ANTENNA

Similar to the model described above but peaked for reception on 10, 20, and 40 meter bands, with 600 to 10 meter overall coverage. Wt., 5 lbs. \$7.06





TACO FREQUENCY MODULA-TION-SW AND BROADCAST ANTENNA SYSTEM

New type receiving antenna. Permits maximum signal pickup from Broadcast, SW, and Frequency-Modulated stations by means of automatic, self-selecting antenna and receiver transformers. Antenna can be adjusted for vertically or horizontally polarized FM signals or rotated, after mast has been erected, for maximum signal-to-noise pickup. Consists of two 65" collector elements, one antenna, one set transformer, 60 feet of low-loss transmission cable, polarization bracket and 8-foot mast. Shpg. wt., 12 lbs. Send for free Taco literature 37-009 on this and other FM antennas.

97-465. Complete Taco An- \$8.82

97-466. Same as above but less 8-foot mast. Shpg. wt., 6 lbs. NET.......\$7.35 47-000. A ditional low-loss transmission cable for use with above system. Per foot 3c

KNIGHT VERTICAL ANTENNA

The newest development in home type antennas. Recommended by leading radio set manufacturers for best and most efficient results. Mounts vertically to match newest broadcasting type antenna construction. Picks up less noise than old style horizontal antennas. Provides efficient reception with All-Wave, Broadcast, or SW receivers. Simple to install. No fuss and bother with masts and horizontal wires. Sturdily constructed, guaranteed rust-proof. Insulator furnished provides positive weather-proof insulation. Universal bracket allows easy fastening togable or flat roof, or to chimney, soil pipe, etc. Complete antenna assembly includes 4 section 12 foot mast made of Admiralty brass with beautiful nickel-plated finish, universal mounting bracket, 40 feet of lead-in wire, 10 feet of ground wire, lightning arrester, insulators, etc. Wt., 4 lbs. \$2.38 The newest development in

WARD UNIVERSAL ROOF & WINDOW ANTENNA

Latest type universal vertical antenna with newly developed bracket which permits mounting in almost any location desired. Can be easily attached to window sill, soil pipe, side of house, gable or flat roof, chimney, cornices, etc. Ideal for apartments, hotels, offices, etc., where roof installation of a regular horizontal-type antenna is impractical. Eliminates the bother and high cost of erecting masts, guy wires, etc. Improves reception.

FOR ALL RADIO SETS

Will operate with any type of set: Broadcast, Short Wave, or All-Wave. Also for low-power, high-frequency 10- and 20-meter transmission. Improved signal pickup. High signal-to-noise ratio. The perfect antenna for all console sales. Guaranteed rustproof. Includes 4-section 15-foot mast, soil pipe and universal mounting, 40 feet of lead-in wire and 9 feet of ground wire, ceramic insulators, ground clamp, and lightning arrester. Shpg. wt., 6 lbs.

97-451. Model \$3.97 C4-120. NET....



INDOOR ANTENNA AND DYNATROL FILTER

Combination indoor aerial and line noise filter. Plugs into light socket and makes use of service line as antenna. May be used in conjunction with regular outside antenna to give increased pickup. Serves to reduce noise and improve radio set sensitivity. Blading post connections. I b. 95c.



INDOOR AERIAL AND ANTENNA TUNER



- Replaces An-tenna & Ground
- Improves Selectivity and Reduces Noise
- Easily Installed

ICA TENNA-SCOPE LOOP

For modernizing radio receivers which do not have a "built-in" antenna. Easily installed inside radio cabinet by following the simple instructions. Eliminates ground and antenna wires. Provides higher signal-to-noise ratio and increases selectivity. Tuning range is 1715 KC to 500 KC, covering the entire broadcast band. An adjustment trimmer condenser permits adapting the loop to any receiver. Radio wires connect to Fahnestock clips. The small size of the loop permits its use with portable radios and midget sets, making the radio easy to move from place to place. Size: 8' long, 6' high, 1¼' deep, Shpg, wt., 1 lb. \$1.15

INDOOR ANTENNA



Replaces outside aerial. Condenser and coil combination built in to give an effective equivalent of 75 feet of wire. Measures 5 x 2½ x 1*. Shpg. wt., 1 lb.

51-023. \$1.32

DUPLEX FILTERVOLT



ALL-DIRECTIONAL

AERIAL

mproves short wave and broad-cast reception. Simple to install. Does away with masts, poles, etc. Requires only a small mounting space. Has 40-ft. lead-in. Only a screw driver required for installation. Complete with insulators and handy mounting bracket. Designed to produce

signed to produce greater volume and clearness of tone. Can be mounted in any convenient space indoors, or outdoors on roof or on a window sill. Wt., 4 lbs.

ICA WINDOW POLE ANTENNA

A deluxe window antenna, made of Admiralty brass with beautiful nickel plated finish. Ideal for homes, apartments, hotels, offices and other buildings where a roof antenna is impractical. Will materially improve the reception of sets now operating from aerial eliminators or built-in aerials. Will increase selectivity and sensitivity of All-Wave, S-W and Broadcast receivers. Adjustable bracket permits the antenna to be pointed in any position.

Adaptable for F.M. Use

The ICA Window Pole Antenna is easily adjusted for the reception of Frequency Modulated signals. An adjustable bracket at base of unit permits maximum pickup of either vertically or horizontally polarized FM signals. There are three telescoping sections which open to a maximum length of 96°. Supplied with mounting flange, insulator, and insulated lead-in strip. Wt., 2 lbs. \$2.65

12 FOOT TYPE

Higher in efficiency. Has four sections which open to a maximum length of 12 feet. Shipping weight, 4 lbs. \$2.91

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.

PRODU



BELDEN MAGNET WIRE

Famous Belden quality magnet wire. Highest grade soft-drawn copper wire with uniform insulation. Will

form insulation. Will not dry out or crack. Each spool is one continuous length, uniformly drawn. Standard B & S gauge. Ideal for winding chokes, coils, etc. Supplied on convenient metal spools. The finest quality magnet wire you can buy.

PLAIN ENAMELED

Stock No.	Size	Feet	EACH
47-100	14	39	27c
47-101	16	60	
47-102	18	100	
47-103	20	160	29c
47-104	22	250	29c
47-105	24	400	30c
47-106	26	635	33c
47-107	28	1010	36c
	30	1610	40c

1/4 LB. SPOOLS					
47-120	32	1275	24c		
47-121	34	2030 3220	29c 33c		
47-123	38	5120	43c		
47-124	40	8140	64		

DOUBLE COTTON 1/2 LB. SPOOLS

Stock No.	Size	Feet	NET
47-130	18	95	\$0.33
47-131	20	150	.35
47-132	22	235 360	.43
1/		POOL	- 140

1/4	LB.	SPOOLS	
47-140	26	280	.26
47-141	28	430	.30
47-142	30	645	.36
47-143	32	965	.42
47-144	34	1350	.56
47-145	36	1675	.72

DOUBLE SILK

Stock No.	Size	Feet	NET
47-150	18	100	\$0.43
47-151 47-152	20 22	160 250	:51
-11			-

11/4	LB.	SPOOL	S
47-160	24	1 195	\$0.30
47-161	26	310	.36
47-162	28	490	.42
47-163	30	765	.52
47-164	32	1190	.72
47-165	34	1785	1.05
47-166	36	2685	1.37



MAGNET WIRE IN HANDY-SIZED SPOOLS

Quality magnet wire in small quantities on handy, marked spools. Double-cotton, double-silk and enamel types. Handy for the serviceman and builder.

PLAIN I	NAN	(EL	DOUBLE	COT	TON	DOUBL	E SII	LK
Stock No.	Size	Feet	Stock No.	Size	Feet	Stock No.	Size	Feet
47-200	14	20	47-230	14	20	47-250	18	25
47-201	16	30	47-231	16	30	47-251	20	35
47-202	18.	50	47-232	18	40	47-252	22	55
47-203	20	75	47-233	20	55	47-253	24	75
47-204	22	120	47-234	22	75	47-254	26	100
47-205	24	175	47-235	24	100	47-255	28	120
47-206	26	250	47-236	26	150	47-256	30	140
47-207	28	340	47-237	28	175	47-257	32	165
47-208	30	430	47-238	30	200	47-258	34	175
47-209	32	600	47-239	32	220	47-259	36	200
47-210	34	800	47-240	34	250	********		
47-211	36	900	47-241	36	275	*********		
47-213	40	900	********					
41-213	1 40	900						

CELLULOSE ACETATE PUSH-BACK WIRE

Fixest hookup wire. Cellulose acetate push-back insulation, covered overall with lacquered, basket-weave rayon braid. Solid is No. 20 tinned copper; stranded is true conceative lay. 25 ft. spools. Shpg. wt. per spool. 6 oz.

Suba.	wt. per spo	or, o oz.	
So	lid	Strai	nded
No.	Color		Color
47-270	Red	47-280	Red
	Blue	47-281	Blue
	Green		Green
	Black		Black
	Yellow		Yellow
	10.		21.
FACH		FACH	



No. 14 Stranded
Similar to above but
especially suited for
heavy-duty use.
No. 14 conductor
is 41 strands of No.
30 copper wire. We, 1 lb.

47-290. 25 foot spool. 32c

47-291. 25 foot spool, 32c

HOOK-UP WIRE **ASSORTMENTS**



Special assort-ments of 4-25-foot coils of Belden hook-up wire. No. 20 tinned copper

20 tinned copper wire; cellulose aceh basket-weave rayon braid. lors: black, red, yellow, green. -300. Solid. ...64

47-301. Stranded. NET.81c

COLORUBBER HOOKUP 20 GAUGE WIRE

IJsed by most radio set manufacturers Strand-ed tinned copper wire, Outer covering is .025° waxed rubber.

100	FOOT SPOOLS
47-302	Red
47-303	Green FACE
47-304	Rine EACH
47-305	Black 51c
47-306	Yellow
47-307	Brosva
and the same of th	The state of the s
1000	FOOT SPOOLS
47-310	Red EACH
47-311	
47-312	Brown \$4.28
47-312	Brown 4.40

NO. 20 DOUBLE BRAID

Double braid, waxed push-back wire with Number 20 tinned conductor. 25 ft. spool. Wt., & oz.

Solid	Stranded
47-320 Red	47-330 R.ed
47-321 Blue	47-331 Blue
47-322 Green	47-332 Green
47-323 Black	47-333 Biack
47-324 Yellow	47-334 Yellow
NET T	
EACH. 16c	EACH 18



BAKELITE ARRESTER

for doublet antenna, porcelain, Wt., 8 oz. NET

SINGLE AND MULTIPLE CABLES



GLAZED COTTON TYPE

No. 20 tinned copper wire. Paper wrap, rubber sheath (except 47-351 and 47-350 which have cotton wrap), color-coded. proof braid overall.

Cond.	100 No.	FEET	PERF	NET
2 3		\$1.20	47-350 47-360	11/2C 21/2C
5	47-371 47-381	2.52	47-370 47-380	3 C 31/2C



RUBBER-COVERED TYPE

No. 18 stranded wire for speakers and power supply lines. Coded, rubber-covered, cotton wrapped. *Has 2-#18 leads, others are #20.

Cond.	100 No.	PEET	PER F	NET
	47-411 47-421 47-431 47-441	4.26	47-410 47-420 47-430 47-440	4C 51/2C



RUBBER SERVICE CORD

Round, flexible, weather-proof cable. No. 18 (16/30) stranded wire conductors, each rubber cov-ered and coded; with cotton wrap-ping and outer live rubber sheath. 2 CONDUCTOR

2 CONDUCTOR
47-400. Per Foot3c
47-401. 50 Feet\$1.35
47-402. 100 Feet 2.60
3 CONDUCTOR
47-550. Per Foot4c
47-551. 100 Feet\$3.45
47-550. Per Foot4c



MATCHED IMPEDANCE TWISTED PAIR LEAD-IN

664 ohm twisted pair transmis-sion line. Two No. 18 conductors covered with color-coded rubber and white weather-proof braid. De-signed to match most all-wave antennas and receivers. \$ 1.40 47-641.500 Foot Coil. \$9.15

WE CAN SUPPLY ALL BELDEN PACIDUCTS. Send for liferature 37-040. Catalog-FREE

MICROPHONE CABLE

Shielded, rubber-sheathed mike cable; low capacity, rubber cov-ered; special stranding gives extra flexibility and tensile strength.

SINGLE CONDUCTOR

Size	100 F No.		PER I	NET
25 20			47-560 47-570	
FOR	CARE	BON	MIKE,	ETC.
Cond.			100 No.	
2 3	47-451 47-461		47-452 47-462	\$ 4.68 5.45
5	47-471		47-472 47-482	6.68
6	47-491 47-511	2.99	47-492 47-512	10.94

* SPECIAL PURPOSE CABLE

No.	Use	10 Ft.	
47-601 47-611	Lapel Mike †Phono-Pickup	40c 25c	
No.	Use	25 Ft.	
47-602 47-612	Lapel Mike	95c	

*Shielded single conductor †Cotton braid overall.



ARMORED CABLE

Weather-proof, armored speaker cable. Will stand hard usage. Consists of 2 parallel conductors No. 18 stranded wire with cotton wrap, 16, rubber wall, paper wrapped, tinned steel armor. 3 1/2c 47-581, 100 FEET. \$2.61



INTERCOM CABLE

For communication systems. No. 19 solid copper wire, double enameled, cotton wrap, waxed color-coded cotton braid, twisted pair, and bare copper shield.

47-590. PER FT.

47-591. 100 FEET. \$2.18

LEAD-IN WIRE

Stranded conductor, covered with special rub-ber insulation to allow quick and easy stripping. Finest quality.



No.	Size	Length	NET
7-620	14	50 ft.	\$0.47
7-625	16	50 it.	.33
7-627		250 ft.	1.32
17-630		100 ft.	.46

POPULAR BELDENAMEL AERIAL WIRE

Famous Belden quality aerial wire Inameled: A high conductivity wire. Ideal for all types of Broadcast, All-Wave, and Short Wave aerials. Beldenamel insulation protects wire from corrosion and atmospheric conditions. The best enameled serial wire you can buy. Stranded Bare: Finest quality stranded bare copper wire. Ideal for all types of aerials. High conductivity. Very little stretch. Supplied in continuous length coils. Belden wire is Jamous for Iong endurance and high efficiency.



50c 47-651.100 FEET. NET.64c 47-652.150 FEET. NET.88c 7x20 WIRE

47-660. 100 FT. NET.\$1.20 ----

20FID MIKE					
47-665	No. 16	\$1.17			
100 EFET		2			
47-670.	No. 12.	-7-7			
100 EFET		77.			
47-675.	No. 14.	E 2			
100 FEET		52e			

STRANDED BARE 7x22 WIRE

47-680. 50 FEET. NET. 230 47-681. 75 FEET. NET.34c 47-682. 100 FEET. NET.45c 47-683. 1000 FEET.

7x26 WIRE 47-690. 50 FEET. .. 120 47-691. 75 FEET. NET. 17C 47-693. 1000 FEET. NET. .\$2.14

MAKE ALLIED YOUR RADIO SUPPLY HEADQUARTERS

ERIAL WIRE AND EQUIPMENT

VALUES IN AERIAL WIRE



Exceptionally high-quality hard-drawn copper wire. Has high conductivity and very little "stretch." Enameled wire will not corrode. Ideal for all types of aerials: single wire, doublet, or cagetype, for All-Wave, Short-Wave, or Broadcast sets. Servicemen: these low prices will increase your aerial wire profit. Av. shpg. wt., 2 lbs. for 100 feet.

STRANDED ENAMELED

75 Ft. Coils						
Stock No.	Size	Per Coil	10 Coils			
49-000 49-001 49-002	7x24	\$0.29 .39 .49	\$2.75 3.70 4.65			
100 Ft. Coils						
49-010 49-011 49-012	7x26 7x24 7x22	.36 .48	3.42 4.56 5.79			

200 Ft.	Coils
49-020 7x26 49-021 7x24 49-022 7x22	.71 6.74 .89 8.45 1.2011.40

SOLID ENAMELED

Solid enameled copper wire for transmitting or receiving aerials.

No.	Gauge	Feet	NET
47-013	10	100	\$1.15
47-023	10	200	2.29
47-030	10	500	5.65
47-012	12	100	.74
47-022	12	200	1.45
47-011	14	100	.50
47-021	14	200	.99



APPROVED LAMP CORD

Rubber-jacketed, flexible cord; each conductor is No. 18 stranded copper wire, separately insulated in tough rubber sheath that splits down center when pulled apart. Fine for lamps, radios, etc.

DI	UWN	BLACK			
No.	NET	Ft.	No.	NET	
48-761			48-771		
48-762 48-763	70c \$1.29	100	48-772 48-773	70c \$1.29	
	0. Gre		Per Ft	2c	
	O. Gre		100Ft.	\$1.29	

HEADPHONE AND SPEAKER CORDS

Copper tinsel inner conductor covered with closely-woven cotton braid. Tips are firmly anchored.

SINGLE CORDS

59-200. 4 foot cord. Tips on one end; spades on other. 59-201. 4 foot cord. Tips on

DOUBLE CORDS

59-205. Spades on one end. Tips on other. 5 foot cord.

59-206. Tips on both ends. 5 10 for \$1.89. 100 for \$17.85. 210

TEST-LEAD WIRE

Extra-flexible No. 20 test lead wire. Made of 41 strands of No. 36 tinned copper wire, with waxed cotton wrapping, and 3/64° wall of rubber. 10,000 volt test.
48-911. Red.
48-901. Black.
5 FOOT COILS, EACH... 6c

IN ANY LENGTH 48-910. Red. PER 11/2°

STRANDED BARE

75 Ft. Colls

Stock	Size	Per	10			
No.		Coil	Coils			
49-060	7x26	\$0.16	\$1.52			
49-061	7x24	.23	2.19			
49-062	7x22	.33	3.14			
	100 Ft.	Colls	1222			
49-070		.21	2.00			
49-071	7x24	.29	2.75			
49-072	7x22		4.18			
Total Color	200 Ft. Coils					
49-080	7x26	.42	3.99			
49-081	7x24	.58	5.51			
49-082	7x22	.88	8.36			

PHOSPHOR BRONZE

Strongest aerial wire. Has high conductivity; non-stretching. Used commercially on ships.

No.	Size	Feet	NET
49-100	7x22	100	\$1.37
49-101	7x22	200	2.65
49-110	7x24	100	.89
49-111	7x24	200	1.72
49-120	7x26	100	.72
49-121	7x26	200	1.38

APPROVED CORD SET

An Under-writers' Ap-proved cord for radios, lamps, fans, amplifiers, etc. 6 foot cord with rubber plug. An excellent value in a safe appliance cord.

FLEXIBLE SPAGHETTI

For insulating bus bar wire, and con-denser and resistor pigtail leads. Fine quality impregnated cambric tubing.

49-200. Black. Per 30' Lgth. 49-204. Yellow. 49-201. Red. 49-203. Green. 10 LENGTHS FOR 54c

GIANT SPAGHETTI

SPAGHETTI ASSORTMENT

A handy selection of 20 lengths of spaghetti tubing in assorted diameters for every radio requirement. Each piece is 71/2 long. Shpg. wt., 1 lb. 49-220. NET 38

BELL WIRE

No. 18 solid copper wire with a double cotton insulation, paraffin-impregnated.



49-131. 1/2 Lb. Coll. 23c 49-132. 25 Foot Coll. NET.... 8.

SPECIAL VALUE AERIAL KITS

DELUXE AERIAL KIT

An exceptionally fine kit. Will improve reception of any radio set. Contains 100 feet of 7 strand copper aerial wire; 40 feet of rubber-covered lead-in wire; 25 feet of ground wire; 4—porcelain insulators; 2—screweye insulators; 1—lightning arrester; 1—window lead-in strip; 1—adjustable ground clamp. With instructions. Shpg. wt., 6 lbs.

83-101.

89c



STANDARD AERIAL KIT

A real value in a complete aerial kit. Includes all materials for a "Marconi type" antenna. Consists of: 90 feet of 7x22 stranded copper aerial wire; 25 feet of rubber covered lead-in wire; window lead-in strip; two porcelain insulators; two nail knobs; and an adjustable ground clamp. Shpg. wt., 4 lbs.

83-100. YOUR NET PRICE.

ALL-PURPOSE LEAD-IN WIRE

TWISTED PAIR SHIELDED LEAD-IN



For all-wave and doublet aerials. No. 20 solid cop-r conductors; weather-proof in-

ion with closely woven copper shielding overall.

48-831. 50 Ft. Coils.\$1.08 48-832. 100 Ft. Coils. 2.10 48-833. 250 Ft. Coils. 5.15



TWISTED PAIR

Low impedance transmission line. Two No. 22 stranded copper con-ductors, rubber-covered. Paraf-fined braid overall.

48-841. 50 Ft. Colls. \$0.64 48-842. 100 Ft. Colls. 1.19 48-843. 250 Ft. Colls. 2.89



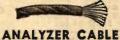
RUBBER TWISTED PAIR LEAD-IN

For all noise-reducing doublet antenna systems. No. 18 twisted rubber-covered stranded wire. NET 48-851. 50 Feet....\$0.59 48-852. 100 Feet... 1.12 48-853. 250 Feet... 2.65

LAMP CORD



Underwriters' Approved. No. 18— 1/2" rubber insulation with black cotton braid overall.



Tinned, stranded conductors with individual rubber and color-coded

braid covering.

48-871. 8 Conductor. Has 2 No. 16 and 6 No. 20 wires. 37c 5-FOOT LENGTH..... 37c 48-881. 9 Conductor. Has 2 No. 16 and 7 No. 20 wires. 39c 5-FOOT LENGTH.....

TELEPHONE WIRE

For telephone or multiple speaker installation. No. 19 solid tinned copper with 1/2" rubber insulation; glazed cotton braid overall.

2 CONDUCTOR

48-811.100 Ft. NET \$1.75

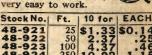
48-821.100 Ft. NET \$2.35

48-822.500 Ft. NET 11.16

RUBBER COVERED LEAD-IN WIRE

STRANDED

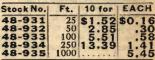
Stranded No. 18 rub-ber-covered lead-in wire. Flexible wire; very easy to work.



LOCK ITO.		The second secon	AND REAL PROPERTY.
48-921	25	\$1.33	\$0.14
48-922	50	2.37	.25
48-923	100	2.37	.46
48-924	250	10.92	1.15
48-925	1000		3.70

SOLID

High quality No. 16 rubber covered lead-in wire. Weatherproof.



SHIELDED LEAD-IN

For broadcast use.
No. 20 stranded tinned wire; rubber-covered; tinned copper braid overall



48-941. 50 Feet. NET..... 48-942. 100 Feet. \$1.25 48-943. 250 Feet. \$ 3.10

NO. 16 STRANDED WIRE Heavy rubber insulation on stranded conductor. Braided cop-per shield. Weatherproof.

 Stock No.
 Size Length
 NET

 48-951
 16
 50 ft.
 \$0.83

 48-952
 16
 250 ft.
 3.89

LEAD-IN AND

AERIAL WIRE
10 strands of No.
30 copper wire, insulated with Guttapercha. Easy-stripping.



LITZ WIRE

Superior quality for low-loss coil winding, 10 strands No. 38 high constrands No. 38 high conductivity copper, white double-silk covered.

48-971.
15c
48-972.1000 Ft. Spool \$1.35

48-981. Size 7 x 41 48-991. Size 10 x 41. EACH. 100 Feet For...

18e

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.

OKUP & MAGN



SINGLE COTTON ENAMELED MAGNET WIRE

An exceptionally high-grade mag-

An exceptionally high-grade magnet wire. Properly annealed for easy handling. Cotton-wrap over enamel gives adequate insulation. Each spool holds one continuous, uniformly drawn, insulated length. B. & S. gauge. For winding RF coils, chokes, motor armatures, power transformers, electro-magnets, solenoids, etc. Shpg. wts.: ½ lb. spool, 14 oz.; 1 lb. spool, 1½ lbs.; 2 lb. spool, 2 lbs. 12 oz.; 5 lb. spool, 6 lbs. 12 oz.

SPO	OLS		1 LB.	SPO	OF2
Ft.	NET	Size	No.	Ft.	NET
39	\$0.25	14	48-020	78	\$0.45
49	.26	15	48-021	98	.47
62	.27	16	48-022	124	.49
78	.28	17	48-023	156	.50
98	.29	18	48-024	198	.52
124	.30	19	48-025	248	.54
156	.31	20	48-026	312	.56
196	.32	21	48-027	392	.58
245	.33	22	48-028	490	.59
	.38	24	48-029	772	.68
	.42	25	48-030	936	.76
		26	48-031	1209	.81
		28	48-032	1876	.92
1390	.54	30	48-033	2780	.94
	Ft. 39 49 62 78 98 124 156 196 245 386 468 605 938	Ft. NET 39 49 62 227 78 98 29 124 30 156 31 196 32 245 33 386 38 468 468 42 605 938 51	Ft. NET Size 39 \$0.25 14 15 62 .27 16 15 62 .27 17 8 .28 17 98 .29 18 124 .30 19 156 .31 20 196 .32 21 245 .33 24 468 .42 25 605 .45 26 938 .51 28	Ft. NET Size No. 39 \$0.25 14 48-020 49 .26 15 48-021 62 .27 16 48-022 78 .28 17 48-023 98 .29 18 48-024 124 .30 19 48-025 156 .31 20 48-025 196 .32 21 48-027 245 .33 22 48-028 386 .32 24 48-028 468 .42 25 48-030 605 .45 26 48-031 938 .51 28 48-032	Ft. NET Size No. Ft. 39 \$0.25 14 48-020 78 49 .26 15 48-021 98 62 .27 16 48-022 124 78 .28 17 48-023 156 98 .29 18 48-025 248 124 .30 19 48-025 248 156 .31 20 48-026 312 196 .32 21 48-027 392 245 .33 22 48-028 490 386 .38 24 48-029 977 468 .42 25 48-031 1209 938 .51 26 48-031 1209 938 .51 28 48-031 1209

Z LB. SPOOL		100	5 LB. SPOOL			
No.	Ft.	NET	Size	No.	Ft.	NET
48-050	62	\$0.86	10	48-070	155	\$2.04
48-051	98	.87	12	48-071	246	2.09
48-052	156	.88	14	48-072	390	2.15
48-053	195	.90	15	48-073	488	2.19
48-054	248	.92	16	48-074	620	2.24
48-055	312	.95	17	48-075	780	2.30
48-056	396	.97	18	48-076	990	2.35
48-057	488	1.06	19	48-077	1240	2.56
48-058	624	1.12	20	48-078	1560	2.72
48-059	784	1.19	21	48-079	1990	2.87

WE CAN SUPPLY

all sizes of single cotton-covered enameled all sizes or single cotton-covered enameted magnet wire in any length required. To determine your cost, simply multiply the price listed after the one pound spool of the size required, by the number of pounds. Send us your order with a 25% deposit; shipments made promptly from our complete stocks.

HIGH-GRADE MAGNET WIRE ON SPOOLS

Insulated copper wire of highest quality for all radio and electrical purposes. Wound on spools in continuous lengths. Excellent for winding armatures and field coils, receiver and transmitter coils, rewinding power transformers and chokes. For shops, schools, laboratories, radio builders, experimenters, etc. Standard B. & S. Gauge: Plain Enameled, Double Cotton, or Double Silk types. We can supply magnet wire in all sizes and types of insulation in larger quantities than listed below. Write for attractive quantity prices. Shpg. wts.: ½ lb. spool, 9 oz.; ½ lb. spool, 14 oz.



PLAIN ENAMELED 1/2 LB. SPOOLS		DOUBLE COTTON 1/2 LB. SPOOLS			DOUBLE SILK 1/4 LB. SPOOLS						
No.	Size	Ft.	NET	No.	Size	Ft.	NET	No.	Size	Ft.	NET
48-100 48-102 48-104 48-106 48-108 48-109	14 16 18 20 22 24	38 63 101 159 253 402	\$0.23 .24 .24 .26 .27	48-120 48-122 48-124 48-126 48-128 48-129	14 16 18 20 22 24	36 61 96 150 234 362	\$0.26. 28 30 31 34 39	48-154 48-156 48-158 48-159 48-161 48-162	18 20 22 24 26 28	49 78 126 196 310 486	\$0.22 .23 .25 .27 .33
48-111 48-112 48-113 48-114 48-115 48-116	26 28 30 32 34 36	640 1013 1602 2543 4042 6410	.30 .32 .36 .40 .47	48-131 48-132 48-133 48-134 48-135 48-136	26 28 30 32 34 36	558 842 1321 1889 2746 3801	.48 .54 .64 .75 .98 1.25	48-163 48-164 48-165 48-166 48-167 48-168	38	775 1207 1828 2668 2875 5325	.49 .67 .95 1.28 1.59 2.95

UNDERWRITERS' LISTED "HI-TEMP" HOOK-UP WIRE



New rubber-insulated wire, Underwriters' Approved for high temperatures. Evenly-drawn pure tin-coated eopper conductor. Wide range of colors. Shpg. wts.: 25', 4 oz.; 100', 1 lb.

47/4/	20 50	LID	20 STRANDED	
Color	25 Feet	100 Feet	25 Feet	100 Feet
Black Red Blue Green Yellow	48-250 48-251 48-252 48-253 48-254	48-260 48-261 48-262 48-263 48-264	48-270 48-271 48-272 48-273 48-274	48-280 48-281 48-282 48-283 48-284
NET EACH	210	68.	240	79c
A STATE OF LAND	22 SC	OLID	22 STRANDED	
Black Red Blue Green Yellow	48-290 48-291 48-292 48-293 48-294	48-300 48-301 48-302 48-303 48-304	48-310 48-311 48-312 48-313 48-314	48-320 48-321 48-322 48-323 48-324
NET EACH	184	59c	21c	68.

CABLES FOR EVERY PURPOSE



HIGH IMPEDANCE MICROPHONE CABLE

Shielded and rubber-jacketed low-loss cable. Conductor of fine-stranded No. 26 copper. 48-531* is No. 20 stranded copper.

SINGLE CONDUCTOR

	25 Ft.	Coil	100 Ft	. Coil
PerFt.	No.	NET	No.	NET
24	48-501	\$1.15	48-502	\$4.25
26	48-511	1.10	48-512	4.10
	48-521			
27*	48-531	1.35	48-532	4.79

DOUBLE CONDUCTOR



CARBON MIKE AND UTILITY CABLE

Rubber covered shielded cable.

Cond.	Per Foot		100 Feet	
conu.	No.	NET	10000	NET
2	48-550	41/2c	48-551	\$3.95
3	48-560	51/2C	48-561	4.85
4	48-570		48-571	
	48-580		48-581	
6	48-590	101/2C	48-591	9.75
7	48-600	11 ½c	48-601	10.85



STRANDED CABLES Color coded; covered with rubber jacket and brown cotton braid.

Cond.	10 F	eet	100 Feet	
conu.	No.	NET	No.	NET
2	48-611	18c	48-612	\$1.65
3	48-621		48-622	1.90
4	48-631	25c	48-632	2.45
5	48-641	35c	48-642	3.25
6	48-651	50c	48-652	4.75
7	48-661	56c	48-662	5.45
8	48-671	65c	48-672	6.25
9	48-681	70c	48-682	6.75



SHIELDING OVERALL

Shielded and tinned copper wire. Color-coded and rubber insulated.

Cond.	Per F	cot	100 Feet		
Cond.	No.	NET	No.	NET	
2	48-700	3c	48-701	\$2.75	
3	48-710	4c	48-711		
4	48-720	5c	48-721	4.45	
5	48-730	51/2C	48-731	5.25	
6	48-740	61/2C	48-741	5.95	
7	48-750	71/2C	48-751	7.25	

COLORED RUBBER

HOOK-UP WIRE RUBBER COVERED 25 - FEET HOOK-UP WIRE Stranded tinned

Wts.: 25', 4 oz.; 1000', 5 lbs. 10 oz.

25 FOOT COILS

48-200.	Black.	NET
48-201.	Red.	EACH
48-202.	Blue.	7.4
48-203.	Green.	14
48-205.	White.	
10 FOR S	1-26-	

1000 FOOT ROLLS

48-21		Black.	EACH
48-21			
48-21			\$4.55
48-21	5.	White.	

No. 16 STRANDED

Current	capacity	18 7	amperes
48-22	Black.		
48-22	1. Red.		OF
25 Foot	Colls, Ea	ch	ZJ

No. 14 STRANDED

Current capacity is 15	amperes.
48-230. Black.	
48-231. Red. 25 Foot Colls, Each	41
25 Foot Coils, Each	48 1 0



EXTENSION CORDS

Flexible c	ords with	phone-tips
and conne		
		d. NET 45c
		d. NET 63c
		d. NET 98c
49-505.	Extra Con	nector. 12c

186

PUSH-BACK HOOK-UP WIRE

This tinned push-back hook-up wire is of the highest quality. Only evenly-drawn pure copper wire is used. Available in both solid and stranded wire. The stranded wire is made up of carefully twisted individual strands of great tensile strength. Unusual flexibility. Will withstand hard use.

FIVE DIFFERENT COLORS

This wire is double-cotton covered with paraffin-treated damp-proof braid which pushes back easily. Use a different color for each circuit for identifica-tion. Buy in quantities and save. Shps. wts.: 25 ft., 4 oz.; 100 ft., 1 lb.; 1000 ft., 5 lbs. 10 oz.

No. 20 SOLID 25 FOOT ROLLS

48-330.	Black.	PER
48-331.	Red.	ROLL
48-332.	Blue.	10
48-333.		13•
48-334.		10
10 FOR S	1.17.	

100 FOOT ROLLS

48-340.	Black.	PER
48-341.	Red.	ROLL
48-342.	Blue.	
48-343.	Green.	45
48-344.	Yellow.	TJ
IN EAD C	AAF	

1000 FOOT SPOOLS

48-350, Black. 48-353, Green. 48-351, Red. 48-354, Yellow. NET EACH......\$3,95

No. 14 SOLID 25 FOOT ROLLS

High-voltage insulation. Ideal for transmitters, power packs, etc.

Color	25 Feet	100 Feet
Black	48-410	48-420
Red	48-411	48-421
Blue	48-412	48-422
Green	48-413	48-423
Yellow	48-414	48-424
EACH	30c	\$1.15

No. 20 STRANDED

25 F	OOT ROL	LS
48-360.	Black.	PER
48-361.	Red.	ROLL
48-362.	Blue.	
48-363.	Green.	14
	Yellow.	
IN END CI	26	

100 FOOT ROLLS

48-371. 48-372. 48-373.	Red. Blue.	ROL
48-374. 10 FOR \$4	Yellow.	49

1000 FOOT POLIS

1000 FC	OI KOL	LJ
48-380. Black.	48-383	Crean
48-381. Red.	48-384.	Yellow.
NET EACH		
ME CAUM.		.54.0

No. 18 SOLID 25 FOOT ROLLS

Heavier wire especially suited for use in filament circuits, etc.

Color	25 Feet	100 Feet
Black	48-390	48-400
Red	48-391	48-401
Blue	48-392	48-402
Green	48-393	48-403
Yellow	48-394	48-404
EACH	17c	59c

BARGARS POPULAR HIGH QUALITY PARTS BUY NOW! QUANTITIES LIMITED!

BARGAIN TUBULAR PAPER CONDENSERS

3½c



Exceptional buys in high-quality standardsize tubular by-pass condensers. Brand-new, top-quality units in most popular values. Quantities limited. Buy now. Tin-ned leads. Wkg. V., 600 V. DC. Wt., 3 oz.

No.	Mfd.	EA.	No.	Mfd.	EA.
58-050 58-051 58-052	.001 .002 .005	310	58-055 58-056 58-057	.02	4c 4c 6c
58-053 58-054	.006	020	58-058 58-059	.25	12c



L49B OCTAL BASE **BALLAST TUBE**

CLOSEOUT OF SICKLES **OUTPUT IF TRANSFORMERS**



SEACH A topnotch quality
456 KC. Output to
39c Diode Detector, IF
transformer at a
very special price.
Can be used in interstage
position by bringing lead
through top of can; neutralizing winding can be clipped
off without affecting performarice of transformer. In
genuine alarminum shield can.
Color-coded leads. Built to
center of the state of the state of the state
3° long. Supply limited. Shyp., wt. 8 oz.
58-036. 456 KC Output Transf.
39c

SPECIAL BARGAIN VALUE BATTERY CLIPS



As Low As 3C EACH

Non-corrosive. Strong spring gives sure grip. Exceptionally low-priced. Wt., 5 oz. 58-065. 11/2" long. Jaw spread. 58-066. 2" long. Jaw spread, 1/2". 10 For 27c. EACH..... 58-067. 2½" long. Jaw spread, 1". 10 For 45c. EACH. 58-068. 31/4" long. Jaw spread, 11/4" 10 For 54c. EACH.



MIDGET UNIVERSAL OUTPUT TRANSF.

49c
EACH
Secondary matches all voice colls from 2 to 30 shars impedance. Size: 1% high, 2% large, 1½ thick. With instructions. Ideal for replacement. Shpg. wt., 1 lb.
62-020. NET.

CARBON RESISTORS



Brand new Standard RMA Color-Coded Carbon Resistors, Values held to close tolerance. Improved construction insures long life. 1½ tinned copper leads, Permanent lead connection is provided by welding, Order a supply now. Shpg. wt., 3 oz. Each

SPECIFY VALUES DESIRED

Ohms	Ohms	Ohms	Ohms
100	800	12500	150000
150	1000	15000	200000
200	1500	20000	250000
250	2000	25000	400000
300	2500	30000	500000
350	3000	40000	750000
400	4000	50000	1 Meg.
500	5000	60000	2 Meg.
600	6000	75000	3 Meg.
700	10000	100000	5 Meg.

2-000. ½ watt size. 2-020. 1 watt size. EITHER TYPE. NET EACH..........3c Quantity Price-100 FOR.....\$2.40



RESISTOR ASSORTMENT

100 FOR A useful assortment of economy-

100
FOR
Type carbon resistors. All are brand new and coded with standard RMA color code. Most popular resistance values in ½ and ½ watt sizes. Shpg. wt. 1½ lbs.
58-086. 100 Resistors. NET ... 95c
58-085. Assortment of 50 Resistors. Smaller assortment of same quality resistors has those listed above. An ideal assortment for the home-builder and experimenter at a money-saving low price. We., I lb.
NET ... 50c

BARGAIN 4-PRONG EBY WAFER SOCKET



49c

A standard-quality 4-prong sacket of laminated bakelite construction at a special low price. Has full-floating, self-aligning contacts of one-piece construction. 1232 mounting centers. Buy in quantities and save more. For replacement and set-building use. Shpg. wt., per 25, 1½ lbs. 49c.\$1.76 100 FOR ..

HANDY SOCKET KIT

ONLY



A special offer. Kit contains 20 assorted tube sockets, including 4, 5, 6, 7, and 8 prong. All have scandard $11\sqrt{2}$ mounting centers. Laminated bakelite; self-aigning contacts. Wt., 1 lb. 58-091. YOUR NET PRICE. 59c

BARGAIN MIDGET DRY ELECTROLYTICS

As Low 14c



First quality midget dry electrolytic con-densers. Hermetically sealed. Excellent for replacement purposes or as original equip-ment. Compactly built. Shpg. wt., 4 oz.

No.	Mfd.	Wkg. V.	Size	EACH
58-070	4	450	17/8×3/4"	14c
58-071	8	450	25/8×13/16"	16c
58-072	16	450	23/16×15/16"	29c
58-073	8	350	17/8x15/16"	14c
58-079	20-20	175	25/8×7/8"	22c
58-074	8	150	13/4×9/16"	14c
58-075	16	150	17/8x3/4"	19c
58-076	20	150	13/4×3/4"	21c
58-077	10	25	13/4×9/16"	14c
58-078	25	25	15/8x5/8"	16c



VALUES IN STANDARD DRY ELECTROLYTICS

A record value in filter condensers. In cardboard container with mounting tabs and wire leads. Quantities limited.

58-080. Single 8 Mfd. condenser. Cardboard container. 2½" x 1½" x ½". Has flexible leads. Working voltage—450 V. DC. Shop, wt., 8 oz 10 For \$1.44. EACH....... 16c

30 HENRY FILTER CHOKE

EACH



A special value in a 30 henry, 50 ma. DC choke, ideal for use in dozens of circuits. Resistance, 550 ohms. Has layer-wound, layer-insulated coils and bright plated, fully rustproof frame. Size: 11/4" high, 21/6" long, 11/4" deep. Mounting hole centers, 21/46". With 6' insulated leads. Snitable for replacement purposes or as original equipment. A really remarkable bargain. Ships. wt., 21bs. 59c

PLUG-IN COIL KIT



Quality coils for building all-wave sets with various circuits. Kit has four coils for following bands: 16 to 36, 32 to 64, 57 to 115, 107 to 217 meters. For 140 mfd, condenser. Fit 5-prong socket. Coils have two windings. A rare value. Shgs. wt., 1 lb. 58-092. KIT OF 4 NET.

POPULAR HIGH QUALITY PARTS BUY NOW! QUANTITIES LIMITED!

GENUINE G.E. MOTOR NOISE FILTER



An amazing
ONLy bargain in an
\$195 filter. Minimizes radio noise due to motor interference. Metal case, 5½ x 3 x 2½", houses two line chokes and two condensers. Midpoint of condensers grounded. Removed from new G.E. converter units and refinished. Handles 10 amperes continuous service. Two lugterminal leads connect to motor; third lead is grounded. Two binding posts take line connection. For 110-115 Volts, AC-DC. Shipping weight, 2 lbs.
\$1.95



AS LOW 5c

EACH

BARGAIN SOCKETS

Quality tube sockets at low prices. 1½° mtg. centers. RMA numbered pin holes. Bakelite construction. Metal plate. Shpg. wt., 4 oz.

Stock No.	Prongs	EACH	10 FOR
58-005	4	5c	45c
58-006	5	5c	45c 54c
58-007	6	6c	
58-008	75	6c	54c
58-009	8 Octal	7c	63c



MIDGET 21/2 MH. RF. CHOKE

Universal winding, sectioned to reduce distributed capacity. DC resistance, 60 ohms; will carry 125 ma. Ceramic core.
60-800. 10 For \$1.08, EACH 12c

VALUE IN HIGH-VOLTAGE POWER TRANSFORMER



ONLY Plate and fila-\$345 former. Primary, 115 V., 50-60 cycles. Secondaries: 1200 V. CT at 200 ma.; 7.5 V. at 3 A. CT; 5 V. at 3 A; 2.5 V. at 10 A-CT. Mtg. ctrs., 3 x 3½6. Shpg. wt., 12 lbs. \$62-101....\$3.45

BARGAIN IN 50 MA CHOKE



ONLY This is an exceptional value.

2 c Replaces Philco
No. 5643J filter
choke. Strap
each mtg. with 2½
ctrs. Inductance,
30 hys. DC resistance,
150 ohms. 50 ma. rating.
Brand new units that
save you money. 2 lbs.

58-015. NET.

TRANSMITTING CONDENSER



188

A transmitting condenser bargain. Oil-impregnated, seal-ed metal cases, Capacity, 3 mfd. Conservatively rated at 600 V. DC. Lug-type terminals. Bottom flange, 2½" x 1". Has mounting flanges. Size: 4½" x 2" x 1½". 2 lbs. 58-016.

HAMMERMILL RECORDING DISCS



PKG. OF 6

Here's an outstanding feature-special in brand-new Hammermill recording discs. These plastic 6½-inch double-faced recording discs have a slightly higher surface noise than the more expensive discs, but represent a smashing bargain for low-cost home recording and test purposes. They are constructed of a durable paper-bond base, coated on both sides to mirror-smoothness with a superiorgrade uniform coating. Six cream-colored flexible Hammermill recording discs are contained in a sturdy and attractively printed manila envelope which has space for tabulating six record titles. Available only in standard packages of 6. Quantity limited; take advantage of this amazingly low price. Shipping weight, I lb.
58-017. Pkg. of 6. NET.... 29c

LOW-COST 2 MFD. 1000V. CONDENSER

A real "buy" for any Amateur. Hermetically sealed, oil-impregnated 2 mfd. 1000 volt paper condensers in metal cans. Built for dependable service and conservatively rated for long life. Terminals are on glazed porcelain stand-off insulators; with heavy mounting flanges. Can measures: 5" long x 2" deep x 3½" wide. Insulators are 1½" high. Shipping weight, 2 lbs.

SPST TOGGLE SWITCH

Ideal for kits, small appliances, etc. Has key groove for on-off plate. Screw terminals. Standard 1/6" dia. Nickelplated finish. Will take panels up to 3/4". Bakelite handle. Shpg. wt., 4 oz.

58-020. EACH 8c 10 FOR 72c



SPECIAL VALUE 7-STRAND RUBBER-COVERED CABLE

100 FT, COIL

ONLY



Here's the real bargain-highlight every service-man and builder always looks for. Finest-quality, general purpose, No. 14-gauge 7-strand conductor. Cablie consists of 3-copper and 4-steel wires for greater strength and exceptional durability. Covered with a live rubber that strips easily to save time and effort. Two cables can be twisted together for doublet lead-in. This same high quality wire is sold elsewhere at substantially higher prices. Now's your opportunity to "cash-in" on a lucky buy made before prices were affected by material shortages. Shipping weights: 100 feet, 3 lba; 250 feet, 6 lbs. 58-031.

SPECIAL VALUE IN 55 WATT 2-TIP IRON



100 WATT IRON

Low-cost soldering-iron recommended for all medium-heavy radio work in shop or laboratory. Has one 1/4-inch diameter replaceable screw-on type copper tip. Fast heat-up period. With black "sure-grip" insulated handle. Has 6-foot heater cord. An exceptional value. Shpg. wt., 3 lbs. 58-022. NET.

MARVEL ELECTRIC IRON



A fine-quality 9½-inch soldering iron used as an extra by servicemen, amateurs, and builders everywhere. Ideal for general radio and all light work. Quick heating period. Has Nichrome wire element mounted in twin porcelain tube. Comes equipped with 1"copper tip. 3½-ft. Underwriters' Approved heater cord. For 100-115 volt AC or DC. Shipping weight, 2 lbs.

58-025. EACH.

30c

10 FOR.....\$2.70 POPULAR COIL KIT

KIT OF 6

A sensational



A sensational value in popular coils. Contains six coils suitable for replacements or as originals. Antenna and TRF coils, superhet coils, oscillator coils. etc. Most coils shielded; some round cans and some square. Manufacturers' types. Quantity limited. Shpg. wt., 3 lbs. 49c

PILOT LIGHT SOCKET KITS

10 FOR

Popular as sortment o of



sortment of miniature base pilot light sockets for all radio needs. Have heavy-plated lugs for easy soldering. Spring contact holds lamp firmly. Wts.: 58-027, 3 oz.; 58-028, 6 oz. 58-027. Asst. of 10. 25c Asst. of 25. 55c

SERVICE TEST LEADS



Kinkless leads with solderless phone tips fitted into \%' dia. prods. \3\%' long. \44' leads. With phone or spade tips, \10 oz. \58-023. Phone Tips. PER 29c 58-024. Spade Tips.

BUY THESE BARGAINS NOW-QUANTITIES ARE LIMITED

KNIGHT PRE-AMPLIFIER AND MICROPHONE



\$875

With this cleverly designed preamplifier and Shure crystal microphone, any radio set can be operated as a Public Address system. Pre-amplifier housed in metal case finished in brown crackle; size, 4½" x 3½" x 7". Microphone is high impedance crystal type with excellent frequency response, equipped with convertiblestand for either hand or desk use. Pre-amplifier uses two tubes, 1—35Z5GT and 1—12J7GT; operates from any 110 volt AC supply; couples to the radio-phono input. With tubes, Wt., 6 lbs. \$8.75

PRE-AMPLIFIER ONLY

Same as above, with tubes, but less microphone. Shipping wt., 4 lbs. \$5.75

SUPREME PUBLICATIONS



PRACTICAL RADIO MATHEMATICS

New and invaluable book

CYCLOPEDIA OF TELEVISION

TECHNIFAX GEOPHYSICAL PROSPECTING PRINTS



With any of the geo-physical methods de-scribed, instruments can be built to locate metal and ore veins, subterranean water, oil deposits, buried pipes, etc. Folder contains blue prints and data. 38-100. Folder No. 1. 2 tube transmitter and 3 tube receiver. Re-flected wave principle.

38-101. Folder No. 2. Harmonic Frequency Locator. Radiates low frequency waves.

38-102. Folder No. 3. Beat Note Indicator, 2 oscillators. Visual and aural signals.

38-103. Folder No. 4. Radio Balance Surveyor. Loop principle. Modulated trunsmitter. 38-104. Folder No. 5. Variable Inductance Monitor. Inductance and loop principle.

38-105. Folder No. 6. Hughes Inductance
Balance Explorer. Wheatstone Bridge type,
38-106. Folder No. 7. Radiodyne Prospector. Balanced loop principle.
EACH, POSTPAID. 7 FOR\$3.00

SPECIAL VALUE RECORDING UNIT



Here's our feature smash value. Designed for those who wish to assemble their own Recorder-Phonograph instruments. Excellent for school construction, C.C.C. projects, and general kit-builders. This Knight Preferred-Quality Recording Unit is ruggedly built; all adjustments have been held to a minimum to insure simple, easy operation by anyone. Heavy weighted turntable is rimdriven at 78 RPM by a powerful self-starting motor. The high-quality magnetic cutting head is adjustable for depth of cut, needle angle, and arm height; cuts 110 lines per inch from outside to inside. Has positive worm and gear drive for the cutting head. The crystal playback pickup is of the 1½-oz. low-pressure type for proper fidelity. Records on any disc up to 10°, will play all phonograph records up to 12°. Operates from any 6-8 ohm voice coil circuit supplying 3 watts power. Size: 13° x 12½, 2½° above board, 4½° below. Here's a really dependable, complete recording mechanism that's easy to operate—at a new low price that's hard to beat. For 110 volts, 60 cycles AC. Shpg. wt. 19 lbs. \$13.75

CODE PRACTICE SET



80-806. Flashlight cell. (2 needed.) Ea. 4C

N. R. I. BOOKLETS

ONLY **\$7**32

Concisely written, published by National Radio Institute, training school of thousands of successful radio men. These booklets are excellent as introductories or reference texts for various radio funda-mentals. 51/4181/4".

38-120. "How Sound and Television Radio Programs are sent from Studio to Your House."

38-122. "F.M. Signals." Frequency Modulation and fundamentals of FM receivers. 38-123. "Radio Receiver Troubles."
Trouble-shooting simplified.

ANTENNA LOOP VALUE

EACH



Tuned loop type antenna provides higher signal-to-noise ratio and better selectivity. Eliminates need for outside aerial or ground. Has permeability tuned iron core assembly. Instructions. Size: 9½" x 7½" x 1½" x 1½ lbs. \$1.10

POWER LINE FILTER



Minimizes radio noises caused by appliances such as electric razors, vacuum cleaners, hair driers, etc. No ground required; plugs into any standard receptacle. Has socket for receiver plug. Suitable for any line voltage. Wt., 1 lb. 70-340. 6 For \$3.36.

CLEAR-A-TONE POWER-LINE FILTER



Enjoy improved radio reception with this low-price power-line filter. Scientifically constructed filter designed to reduce radio interference which comes through power lines. Effective in filtering electrical appliance interference. Install between radio and wall plug or at cause of disturbance. Utilizes capacitive and inductivee filter units for most effective results. Maximum current handling capacity, 5 amps. Size: 7½" x 5" x 3½". For 110 V., AC-DC. 5 lbs. \$1.95

3-IN-1 RADIO TUNER

ONLY



Improves the reception of any radio. Acts as an Antenna Tuner, a Wave Trap, or Indoor Aerial. With instructions. Spg. wt. 8 oz. 32.

SCRATCH REMOVER KIT

Make scratche vanish. Run filler stick over blemish, then polish. Kit contains reanishing liquid and 6 stain filler sticks in mahogany, walnut, dark oak, golden oak, maple or amber maple. Shpg. wt., 1½ lbs.
43-130.
NET.
39c



WALSCO SCRATCH REMOVER

New plastic fountain-pen shaped scratch remover instantly removes scratches on radios or furniture, etc. Just brush over lightly. Reverse end of pen contains special filler for staining. Unbreakable. Ships, wt., 6 oz.

43-131. NET. 29c



ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL. 189

www.americanradiohistory.com

HAND MICROPHONE



An efficient, well construc-ted novelty

wooden handle. Will provide hours of enjoyment. On-off switch in handle allows you to break in on regular radio programs with your own announcements. Quickly and easily connected to any radio set without rewiring. With cord and adapters. Shpg. wt., 2 lbs. 59-320.

STANDARD MODEL MIKE



59c

An excellent, com-pact, well-built mi-crophone for home e. In metal case, 334" high. Will pro-vide hours of fun

Complete with adapters and cord. Has push-button switch. Mounted on pedestal with felt base. Shpg. wt., 1 lb. 59.

DELUXE MODEL MIKE



99°

Similar to standard model above, but larger in size. Does not interfere with radio reception. Pushbutton switch. Greenbronze finish. 5' high. Mounted on no-tip pedestal. With cord. Wt., 1½ lbs. 996

ICA MIKE BOOSTER



Permits connecting a single button carbon mike to any radio. Increases sensitivity and output. Limits button current; eliminates carbon "packing." With instructions. Shpg. wt., 1 lb. 73c Permits connect-

BELL-RINGING TRANSFORMER



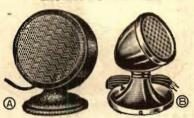
DIETZGEN SLIDE RULE



₹98°

Famous Dietzgen Co. accurately calibrated 10-inch rule. Mannheim type with A, B, C, CI, b, and K scales on face; and conversion tables on reverse. With 18-page instruction book and leatherette case. Made in U.S.A. Shpg. wt., 1 lb. 98c

DYNAMIC MICROPHONES

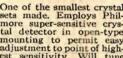


QUAM MIKE. Fig. A. A high impedance dynamic type mike. Ideal for use with wireless record players, radio sets, paging systems, Amateur phone transmitters, etc. Frequency range, 60 to 8,000 cycles; output.—50 db. With 5-foot cord and 'phone tips. 5½' high. Shpg. wt., 2½ lbs. \$2.03 59-309. With 20-foot cord. NET \$2.35

ICA MIKE. Fig. B. A high quality microphone incorporating the new high impedance permo-magnetic type of construction. Highly sensitive. Frequency response is from 60 to 8000 CPS; output level,—50 db. High impedance output; 5 foot cord. Shpg. wt., 3 lbs.

59-331. NET. \$2.91

LITTLE WONDER CRYSTAL SET



One of the smallest crystal sets made. Employs Philmore super-sensitive crystal detector in open-type mounting to permit easy adjustment to point of highest sensitivity. Will tune local stations within 25-mile area when used with suitable antenna. Has convenient slider contact and binding posts for connection of earphones, aerial and ground. Mounted on a very attractive bakelite base. No tubes or batteries are required. A well-designed and efficient crystal set at an exceptionally low price. Shpg. wt., 1½ lbs.

PHILMORE ULTRATONE

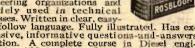
CRYSTAL SET

An unusually attractive and efficient set, offering exceptional sensitivity. Tunes stations over distance of about 25 miles with suitable aerial. Has four-way switch operated by knob on front panel, variable condenser with dial, sensitive glass-enclosed crystal detector, and insulated headphone jacks. Affords enjoyable reception, loud and clear, without distortion. Presented in attractive metal cabinet with etched metal front panel. Requires no tubes or batteries. A fine value in a quality-built crystal set. Shpg. wt., 3 lbs. \$3.45

See pages 161 and 185 for headphones and aerials sultable for use with above sets.

DIESEL HANDBOOK

A complete, authoritative work by J. Rosbloom. Combines in one big volume detailed handbook and textbook material on every aspect of modern Diesel engineering: stationary, marine, locomotive, etc. Endorsed by engineering organizations and widely used in technical classes. Written in clear, easy-to-follow language. Fully illustrated. Has extensive, informative questions-and-answers section. A complete course in Diesel engineering, 720 pages, size 5½" x 7". Cloth-bound. 37-910.



37-910. POSTPAID IN U.S.A.....\$3.00

STUDIO TYPE MIKE

ONLY \$ 47

An extremely popular hand-type carbon microphone for



radio set or amplifier. Looks like a professional type. Includes on-off switch mounted on handle. With 10-foot cord and connector prong adapter. With instructions. Wt., 2 lbs. \$1.47

POPULAR DYN-A-MIKE

\$275

A quality-built dynamic type A quality-built dynamic type microphone for home use; unidirectional; sturdy construction; high output. Combines high-sensitivity with freedom from feedback. Has built-in switch on handle, allowing you to cut in on radio programs with your own announcements. Easily connected to any radio set or amplifier. Complete with nine-foot rubberized cord with pin tips. With instructions. Wt., 3 lbs. \$2.75

ICA DELUXE SIGNA-TONE WITH SPEAKER



A perfected audio oscillator with 3 output frequencies and a variable volume control. Produces audio signal similar to those of commercial CW stations. For use as (1) Code Practice Set—with facilities for keys and phones for use in multiple or classroom code instruction; (2) Keying Monitor—will follow "bug" at all speeds; (3) Modulation Signal—for adjusting the modulation level of a transmitter; (4) Signal Tracer—locates defects when fed into audio stage of amplifier. With tube and self-contained speaker. 7½x4½x4*. For 110 volts AC-DC. Shpg. wt., 5 lbs.

73-430. \$9.55

ICA SIGNA-TONE FOR PHONES



Similar to deluxe model above, but designed primarily for use in classroom instruction and radio clubs. Has plug-in facility for earphones or speaker. Features include adjustable 3 tone audio output, continuously variable volume control, and extra terminals for keys and phones. Includes send-receive practice instructions for classroom use. Same high-quality construction throughout as deluxe model. Supplied complete with tube in attractive metal case, size: 4" wide, 4½" high, 4" deep, For operation from 110 volts, AC or DC. Shpg. vst., 3 lbs.

73-431. NET.

73-432. Station Terminal Box. Consists of key and phone jacks mounted in compact case. Ideal for multiple station code instruction classes. Wt., 1 lb. NET.

98c

LOWER PRICES ALWAYS - WE WILL NOT BE UNDERSOLD

TORK TIME SWITCH CLOCKS



TURNS ELECTRICAL APPLIANCES ON AND OFF

Compact and dependable time switch clocks. May be set at any time to automatically turn off or on oil-burners, hall lights, radios, refrigerators, window lights, etc. Electrically safe units constructed of quality materials; made by world famous manufacturer.



ELECTRIC SELF-STARTING MODELS MODEL 25 MODEL 26

Fig. A. For radio control, defrosting refrigerators, window displays, hall lighting. Has 24-hour dial with "ON-OFF" arms, easily set in 15-minute steps, 2 hours apart or more. Dial has ratchet-type setting for accuracy. In steel case with convenient plug-in receptacle at back for any electrical appliance controlled by switch. Capacity, 6 amps. With 7-foot cord and plug. For 110 V., 60 cycles AC. Underwriters' Listed. 4½ x 3 x 2. Shpg. wt., 5 lbs. \$7.00

Thrift Model. Similar to Model 25 at left, but designed for permanent installation. Dustite steel case has removable backplate for mounting to ears of standard switch box. Terminal wires from the switch and clock motor extend through backplate and are easily connected by using switch box as a junction box. Held in position by top and bottom screws. Capacity, 6 amps. For 110 volts, 60 cycles AC. Underwiters' Listed. 4½ x 3 x 2°. Shpg. wt., 5 lbs. \$7.00

MODEL 191A FOR INDUSTRIAL CONTROL

Fig. B. For heavy-duty industrial requirements. Turns electrical equipment "on" and "off" at any predetermined time in 15-minute steps; single pole switch. Low-geared ratchet center knob adjusts to accuracy within one minute. Switch may be freely operated by hand at any time without disturbing its automatic setting. Coil, field, and rotor of motor are sealed in steel housing; parts revolving faster than 8 RPM run in oil. In pressed-steel case, size: 8½" x 5½" x 3½". For 20 amps., up to 2200 watts. For 110 volts, 60 cycles AC. Underwriters' Listed. Shpg. wt., 6 lbs.

78-302. NET

We can supply Tark clocks for all requirements.

We can supply Tork clocks for all requirements.

"IDEAL-PHONE" TELEPHONE SYSTEMS 2-STATION PRIVATE LINE

- FOR WALL OR DESK MOUNT
- . WITH PLASTIC HANDSET
- PUSHBUTTON SIGNALING

PUSHBUTTON SIGNALING

The "Ideal-Phone" 2-station system provides an economical and very efficient means of communication between any two points in homes, offices, stores, etc. Easy to install and use. Operates from two 6-volt batteries (one at each station) over any distance up to 500 feet; for greater distances simply add extra batteries. The standard size plastic-molded handset hangs from the control box which may be mounted on a wall or at the side of a desk. Has single pushbutton at each station; to make call, simply lift handset and press button; signal bell rings at other station. Black japanned control box measures 5½" x 4" x 2". For complete installation, order two phone sets, two batteries, and sufficient cable necessary to cover distance.

95-880. Type AM-34 Phone. 2 \$ 10.75



95-880. Type AM-34 Phone. 2 \$10.75 required. 4 lbs. va. NET EACH... 48-630. 4-conductor cable. PER FOOT.... 80-807. 6 volt battery. 2 required. 8 lbs. ea. EACH.....\$1.39

3 TO 10 STATION SIGNALING SYSTEM

A complete telephone system for larger installations than system above. Accommodates from 3 to 10 stations; ideal for use in schools, factories, larger stores, etc. Push-button is used for code signals which are sounded at all stations simultaneously. Operates from two 6-volt batteries, one used for talking, the other for ringing current supply. Handset and control box are exactly as described above; may be mounted on wall or on side of desk. Impedance coil listed below required for each complete system; connects in negative talking lead. For complete installation, order number of phone stations needed, two batteries, impedance coil, and sufficient cable to cover distance. Supplied with complete instructions for wiring. A practical, efficient telephone system at a very moderate price.

95-881. Type AM-34 Phone. (Use any number \$10.75 from 3 to 10). Wt., 4 lbs. each. NET EACH...... 60-850. Type AU-10 Impedance Coil. 1 lb. NET \$1.85 48-630. 4-conductor cable. NET PER FOOT... 80-807. 6 volt battery. 2 required. 8 lbs. ea. EACH \$1.39

TRINDL EASY-TO-OPERATE ARC WELDERS



MODEL 125 SUPER-INDUSTRIAL HEAVY-DUTY ARC WELDER

A deluxe Industrial heavy-duty type Arc Welder. Welds metals up to ½" thick. Will handle a ½" shielded are welding rod directly in the holder. 32 heat ranges for all welding requirements. Has an improved vernier control panel for greater selectivity. 10 to 125 ampere output. Unit measures only 10½" x 9" x 14". Complete with five pounds of welding rod, ground cable, and shield, 2 special fuses, carbon, flux, regulation welder's helmet, electrode holder, etc. No previous experience necessary. Instructions supplied are actually a course in welding. Shpg. wt., 92 lbs.

98-050. For 110 V., 50-60 cycle AC.



MODEL 75 SUPER-INDUSTRIAL LOW-COST ARC WELDER

Don't discard machinery because of broken parts. This low-cost are welder will weld cylinder blocks, bumpers, fenders, tanks, and practically all metal farm implements. Works on iron, steel, tin, brass, etc. Does carbon are and metallic are welding. Holder takes ½2" shielded are welding. Holder takes ½2" shielded are welding mod. Welds metals up to ½" thick. Convenient terminal outlets for Low, Medium, High, and Very High heat welding. Range of four settings is 30 to 75 amperes. Light in weight—easily portable. Complete Welder includes assortment of rods, ground clamp, ground cable, spring type electrode holder, helmet, and detailed instructions which are easy to follow. Size. 7½" x 9" x 11½". For 110 volt, 60 cycles. Shpg. wt. 35 lbs. 98-052. Complete with helmet. NET.



MODEL 40 LIGHT-DUTY ARC WELDER

An economy are welder for all metal repair work; will do a professional job on aluminum, brass, copper, iron, steel, bronze and other ferrous and non-ferrous metals. In addition to work such as fender welds, auto body repairs, etc., handles heavy work such as cylinder, bumper, tank, and industrial repairs. Excellent for sheet metal shops, plumbers, etc., Quick, simple operation. No special wiring required. Complete with power unit, cord, holder, carbons, welding and brazing rods, solder, flux, goggles, 30 ampere fuse, and instructions. For 110 V., AC or DC. Wt. 8 lbs.

98-053.

RODS FOR ALL WELDERS

Specially selected assortments of rods, specifically intended to meet all standard welding rod requirements. Include every type and size of rod needed for any of the welders above and for practically all arc-welding jobs. Buy your rods in large assortments and save more.

78-400. 5-LB. PACKAGE assorted mild steel welding rods, containing 253 pieces: 1 lb. 1/6" dia. rods, 3 lbs. 1/2" dia. rods, \$1.47

78-401, 10-LB. PACKAGE assorted mild ateel welding rods, containing 405 pieces: 1 lb. 166 dia. rods. 6 lbs. 1/2 dia. rods. \$2.53

78-402. 15-LB. PACKAGE assorted mild steel welding rods, containing 677 pieces: 2 lbs. Vig" dia. rods, 10 lbs. Vig" dia. dia. S. 10 lbs. NET....\$3.96

78-403. 25-LB. PACKAGE assorted mild steel welding rods, containing 1063 pieces: 3 lbs. 16 dia. rods, 15 lbs. 16 dia. \$6.27 rods, 7 lbs. 16 dia. rods. NET...

AUDELS' WELDER'S GUIDE

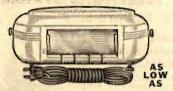
Get in on the big demand for experienced welders! This book covers every welding practice. Explains methods, construction of welders, kinds of metals, etc., 400 pages; illustrated. Questions and answers section.

37-099. 98c



ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.

LUXURAY BED LAMP



If you read in bed (and who doesn't?), here's just the bed lamp you've been looking for—and at a moneysaving low price. Provides cooler, better, glareless illumination. New Plastacele diffuser assures clear, bright light without glare. Handsome moided plastic case has adjustable rubber-covered brackets that fit over headboard of bed. Uses standard 60-watt bulb. Presented in soft Ivory Plaskon or rich Walnut Bakelite to match any setting; size: 10" x 3¾" x 3¾". Complete with 6-foot Underwriter's Listed rubber cord and plug. Less bulb. Shpg. wt., 2 lbs.

90-550. NET	Ivory finish. \$1.14
	6, EACH\$1.05
90-551. NET	Walnut finish. 94c
	6. EACH

HANDY ELECTRIC WHIPPER



ONLY \$195

Ideal for whip-

Ideal for whipping eggs, cream, dressings, sauces, drinks, etc. The powerful, speedy motor will not interfere with any radio. Has 1½ pint heavy glass mixing bowl. With removable beater and on-off switch. Easy to use; easy to keep clean. Complete with cord and plug. For 110 volts, 60 cycles AC. Shipping weight, 4 lbs.

90-502. NET \$1.95

UTILITY ELECTRIC **AUTOMATIC TOASTER**

2-SLICE MODEL



A deluxe automatic two-slice toaster at a popular price. Incorporates latest features for quicker, better, crispier toast—always uniform golden brown in color. Efficient silent-clock and thermostat control provides uniform accuracy in toast-timing. Toast automatically pops up when finished or may be kept warm until served. Handsome polished chrome body on bakelite base; size: 11½" long, 6½" wide, 7" high. Double silver contacts; pure mica element. Bottom plate easily removable for cleaning. Complete with cord. For 110-125 volts AC or DC. Shog. wt., 6 lbs. 90-500.

SAFE-D-LITE WALL LIGHT

TURNS ITSELF OFF AUTOMATICALLY

ONLY \$ 36



90-555. NET......\$1.36 80-806. No. 2 Cell (2 required). EACH 4c

MIRACLE FOOD MIXER

ONLY

COMPLETE



A marvelously efficient, time-saving kitchen servant, this deluxe Food Mixer beats, stirs, whips, and mashes all types of batters, salad dressings, eggs, cream, etc.; and extracts juice from fruit. Has every convenience for wonderful utility: 5-speed Universal motor; self-locking beaters with polished metal blades, easily removable for cleaning; revolving bowl platform. Motor tilts back to drain beaters and is easily detached for cleaning. Accessories include: 2 heat-proof white bowls, juicer attachment, beverage mixing attachment. Handsome ivory finish with easy-grip ebony black handle. Underwriters' Listed. With cord. For 110-120 V., AC or DC. Shpg. wt., 20 lbs. 90-501.

90-501. \$13.50

MARVEL TELEPHONE SET



All-purpose battery phone set operates electrically for low-cost inter-communication for houses, offices, factories, farms, etc. Two dry-cell batteries at each phone carry voice and signal 750 feet; four dry-cells at each phone carry 2000 feet and over. Cradle-type phones made of durable pressed-metal; finished in telephone black. Simple to install. With 35 feet of wire. Extension wire listed below. Less dry cells. Use 80-804 dry cells on p.123. 4lbs. \$3.33

SAMSON-UNITED UNDERWRITERS' LISTED ELECTRICAL APPLIANCES

AUTOMATIC WAFFLER



ONLY

Bakes waffles as you want them

l i g lt t. medium, or dark. Signal flashes when ready for batter and when waffle is done; automatic current shut-off. 7½" non-stick grids. Chrome finish; walnut handles. 10" x 8¾" x 4¾". Underwriters' listed. With cord. For 110-120 V. AC. Shipping wt. 6 lbs. \$6.25

AUTOMATIC AUTO-FLIP TOASTER



Sets for light, medium, or crisp toast; automatic signal tells when to signal tells when to turn and when to serve. Toast turns over when door is lowered. With ap-proved cord. For 110-120 volts AC.

Shpg. wt., 4 lbs. 90-506. NET....

DIAL-A-HEAT IRON

ONLY \$415

A handsome, modern Un-derwriters' Listed electric

Listed electric iron. 1000 watt heating unit housed ½ from ironing surface; heats faster, saves current. Weighs only ½ lbs. Fingertip control selects and maintains correct heat for every fabric—cotton, wool, silk, etc. Has air-cooled black plastic handle and tilt-torest stand. Chrome finished. With 7 ft. cord. For 110-120 V. AC. Shpg. wt., 6 lbs. \$4.15

FOLD-AWAY TRAVEL IRON AND HANDY KARRY-KIT

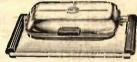




Smooths out travel wrinkles in a jiffy. Ideal for tourists, students, etc. Caly 2½ lbs. Cream enamel-finished handle folds flat for easy packing. Quick-heating element. Polished chrome. With slide-fastener Karry-Kit bag and approved cord set. For 110-120 volts, AC or DC. Shpg. wt. 3½ lbs.

90-509. NET.

COMBINATION SANDWICH TOASTER-GRILL-WAFFLER



A marvelously convenient home appliance that can rightly be called a feature value! Here in one complete unit of striking modern design are three separate and popular household aids: a sandwich toaster, a grill, a waffle-baker. Hear indicator flashes correct grilling and baking temperature. Adjustable lid hinges permit toasting sandwiches without crushing; with the top laid back it becomes a double-surface flat grill for fast grilling or frying. Both flat grild for fast grilling or frying. Both flat grids have large drain with eup to catch grease. Converts to a waffle iron in a jiffy merely by inserting the greaseless type non-stick waffle grids included; bakes double-size waffles. Finished overall in polished chromium with genuine walnut handles. Has fast-heating clement. Underwriters' Listed. For 110-120 volts AC or DC. With approved cord set. Size: 14½ x 8½ x 8½ x 4. An efficient quality home appliance. Shpg. wt., 15 lbs. \$7.65

SANDWICH TOASTER AND GRILL

A complete sandwich tooster and grill with the same beautiful design, finish, and construction as woodel above, but without the heat in dicator and the waffle grids. With cord. For 110-120 volts AC or DC. Wt., 13 lbs. 90-511.



"AIRMETER"

Tells at a glance the relative humidity and temperature in any room. Attractively presented in a beautiful gummetal finished case. Light tan dial face and contrasting figures and pointers. Size: 1" x 3". Wt., 1 lb.

"AIR PILOT" AIR CONDITION INDICATOR



A well-huilt, accurate instrument; shows temperature and humidity on large, clearly lettered dial. Polished ivory-finished metal case, 3"

78-201. EACH, 46c. LOTS OF 12, EACH...

BURGESS PENLIGHT



Handy pen-light fits either vest pocket or purse.

Bright plated barrel trimmed with maroen enamel. Thumb-switch locks on and quickly releases. Has pocket clip. Complete with G-E bulb. Less battery. Wt., 8 oz.

78-230. Penlight only. NET...... 39c 53-030. 2 cell battery. Wt., 4 oz. NET. 61/2C

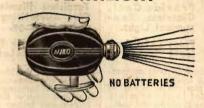
HANDY WATCH-CHAIN LIGHT



A practical miniature flashlight only \%" dia. x 3 \%" long. Hang from watch-

53-031. Battery. Wt., 4 oz. NET4c

NICOUD LIFETIME FLASHLIGHT



Genuine NIKO self-generating flashlight—no batteries! Tenite case with built-in generator; just pump lever and get continuous beam of uniform light. Ideal for campers, sportsmen, tourists, Boy Scouts, etc., or for home use, Works under water also. 41/4" long, 21/2" wide, I" thick. Shpg. wt., 8 oz.

NIKO BICYCLE LIGHT

A self-generating, no-battery bicycle light. Will fit any bike. Driven by wheel rim. Gives constant beam of bright light when wheel is in motion. Streamline design for minimum wind resistance. Oilless bearings. Easily installed. Shpg. wt., 1½ lbs.

78-211. \$1.92

RECHARGEABLE BATTERY



A miniature storage battery for flash-lights—saves up to 75% on costs of flash-light cells. Use charger below to recharge battery. Provides up to 1000 hours of service. Fits all standard 2-cell flashlights; replaces two No. 2 cells. Shipping weight, 8 oz.

soz. Salpping weight, 8 oz. Salpping weight, 8 oz. Salpping weight, 53-400. Battery. NET. 1.96
53-401. Charger. Operates from 110
V. AC. Wt., 31bs. NET. ... \$1.96
52-328. Special low drain bulb. For use in flashlites when replacing standard cells with above wet cell. NET. ... 15c

ATR "B" BATTERY **ELIMINATOR**

ATR BATTERY CHARGER

Keeps auto battery fully charged without removing battery from removing battery from car. Assures ample current for car radio, heater, etc. Utilizes full-wave dry-disc rectifier. Charging rate, 4 to 2 amperes. To operate, attach plug to dash receptacle and connect to 110 volt AC power line. Automatic tapering prevents overcharging. In metal case, 5½ x 3½ x 3½ x 3½. Complete with polarized dash receptacle and plug, fuse, 6-ft. DC cord and 6-ft. AC cord. Shpg. wt., 5 lbs.

80-016. NET.....

80-017. Deluxe Model. 6 to 3 Amps. 9-ft. DC, 12-ft. AC cords. With in-structions. 8 lbs. NET.......\$7.61

POPULAR-PRICED ELECTRICAL APPLIANCES

NEW HAVEN SET-O-MATIC ELECTRIC KITCHEN CLOCK



An attractively designed kitchen clock. Sets and starts from the front in one operation; op-crates from 100-125 volts, 60 cycles AC. Large

black numerals on white dial, with red sweep-second hand. 180 RPM motor. Draws only 1½ watts. 8½" wide, 6½" high, 2" deep. Shop. wt., 3 lbs. 90-120. Refrigerator White. 90-121. Green. EACH...................\$2.18

"NO TOOL" HANDY PLUGS



NO WIRE STRIPPING— MERELY INSERT AND TURN CAP FOR CONTACT

The first new electric plug!
Anyone can connect it in a jiffy—without tools—without bother. Just separate wires, insert ends in holes, and screw on cap. Pressure of cap forces teeth through wire to make permanent contact. Safer and simpler to use than old style plugs. Underwriters' Listed. Shpg. wt., 3 oz.

78-225. Brown Bakelite FACH

78-226. Ivory Bakelite. PACKAGE OF 25, NET......\$2.25 "BABY GRANDE" ELECTRIC CLOTHES WASHER



A new Underwriters' Approved Electric Clothes Washer; ideal for the home or nursery. Boils and sterilizes as it washes everything from baby's clothes to adult apparel and linen. Compact design affords big washer efficiency with small machine convenience and economy. Holds 2 full pounds of dry clothes; washes thoroughly with swirling action; gentle action prevents tangle or tearing of clothes. Has powerful air-cooled induction-type motor and a powerful air-cooled induction-type motor and a powerful 3 fin cast agitator. Heavy, triple-coated vitreous porcelain enameled steel tub attractively finished in speckled Ivory; dome is black enamel finished. Cover has convenient handles and steam escape vents. Tub diameter, 14 inches; overall size: 16 x 16 inches. For 110-120 volts, 60 cycles AC. Less wringer. Shipping weight, 18 lbs.

98-580. NET..... 98-030. Portable Wringer. White enamel finish. Easy to attach to tub and to remove. Soft rubber rollers. Wt., 4 lbs.

VACULATOR WIDE-MOUTH COFFEE BREWERS



VACULATOR filter system; ingenious 3-inel cover; smart decanter tea cap. Capacity, 8 cups. With two-speed heating unit ("brew"—"warm") cord and plug. For 110 V. AC or DC. Approved by Good Housekeeping Inst. Shpg. wt. 5 lbs.

90-100. NET. 4.86

90-101. Gas Model. For use on gas burner or open flame. Shpg. wt. 4 lbs. NET. \$2.76

"HOT DONUT" WATER HEATER



ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.

www.americanradiohistory.com

MODERN PLUG-IN TYPE ALL-PURPOSE FLUORESCENT FIXTURE



Provide Cool, Glareless, Ec nomical Light. Eco-

Plugs Into Any Light Socket.

91-200. Complete, less only 2 lamps. NET......\$3.98

AD-O-LITE COMBINATION FLUORES-CENT FIXTURE AND ELECTRIC SIGN

Furnishes Illumination Plus Advertising and Sales Message.

Complete with 92 Interchangeable Letters.



The perfect double-purpose fluorescent lighting fixture and sign for stores, restaurants, markets, offices, taverns, etc. Supplies modern fluorescent lighting and, in addition, is an advertising sign with space on both sides of fixture for your message. Furnished with 92 interchangeable letters and numerals so that message can be changed easily and quickly. Has translucent background for letters; attracts attention and always tells your customers what you have to sell. Fits your present electric fixture; just attach to holder and plug in. No rewiring, no bother; anyone can install it quickly. Uses two 20-watt fluorescent lamps which replace a 100-watt incandescent light. Handsome, practical design; has white baked enamel reflector and smart chrome trim. Size: 25' long, 8½' wide, 4½' deep. For operation from 110-125 volts, 60 cycles AC. Complete with letters, but less lamps (see below). Light up your shop, and get your sales message across. 2 types—for 4' or 6' ceiling holders. Shpg. wt., 12 lbs. The perfect double-purpose fluorescent lighting fixture and sign for

91-205. Fixture less famps with 4" holder. 1 NET \$7.93

91-503. 20 watt white fluorescent lamp. 2 lbs. EACH. 43-100. Extra set of 92 letters. 2 lbs. NET.

JFD FLUORESCENT-LIGHT

NOISE FILTER



An Underwriters'
Listed cap active-type filter, especially designed to suppress radio interference noise caused by fluorescent lamps. Easily installed; just connect filter leads to line, and ground can to fixture. Also an efficient suppressor for other electrical interference. In metal can, size: 4½/x1½/x1½/2. With 12″ leads. For 115 V., 60 cycles AC. Shpg. wt., 12 oz.

ACRO SNAP SWITCHES

REHTRON "JUNIOR ENGINEER"



83-900. SPECIAL NET PRICE. \$875





An exceptionally well-constructed, fric-An exceptionally well-constructed, frictionless, snap-action switch for precision control of all kinds of apparatus in industry, laboratories, etc. Extremely sensitive; operates on very low pressure. Has one-piece blade, silver contacts, roller spring. In molded bakelite case; overall size: 11½, "x1½," x1½," x2½," Drilled for mounting with two 6-32 screws. Weighs less than 1 oz. Rated 2 amps. at 600 V., 3 amps. at 450 V., 5 amps. at 250 V., 10 amps. at 115 V. Shpg. wt., 4 oz.

FIG. A. PIN-PLUNGER TYPE

35-000. SPST. Normally open .. 98c 35-001. SPST. Normally closed. 98c

35-002. SPDT. Type\$1.18 FIG. B. LEAF ACTUATOR TYPE

35-005.SPST.Normallyopen.\$1.08

35-006.SPST.Normallyclosed 1.08

35-007.SPDT. Type 1.27

A-1 METAL POLISH



An excellent all-purpose polish for metal, glass, porcelain, etc. Cleans and polishes gold, silver, chrome, copper, nickel, etc. Ideal for fluorescent fixtures. In paste form; contains no acid or grit; does not scratch.

43-151. 8 oz. Jar. NET 250

ELECTRIC-EYE KIT



Build Your Own Burglar Alarm Operate Secret Door Signal Make A Trick Lie Detector Perform Electronic Experiments

• Perform Electronic Experiments

Learn all about photo-electric equipment and set up your own apparatus with this sensational new Electric Eye Kit. Not a toy—actually scientific apparatus that enables you to perform innumerable experiments. It's entirely practical and, what's more, unusually instructive. With this kit you can build your own burglar alarm, make a trick lie detector, operate a secret door signal, light an electric bulb with a match, sound a signal with a flashlight, take your own snapshot, etc. Exceptionally fascinating for young people, and for adults as well. Detailed instruction booklet explains function of each piece of equipment and gives you complete operating details; really a simplified, condensed education in Electronic fundamentals. Complete kit includes: Photo Cell, 6J5G Amplifier Tube, Electric-Eye transformer with potentiometer, demonstrator panel board, buzzer, porcelain base switches, bulb with socket, adapter plug with leads, wire, and hardware. For operation from 110 volts, 60 cycles AC. Attractively boxed; complete with manual of instructions. Special NET PRICE.



Turns radio, roaster, coffee maker, lights, etc., on or off at any predetermined time from 15 min. to 10½ hrs. Has 30-hour spring-wound movement. Handles up to 1650 watts. In molded plastic case of modern design. For AC operated appliances only. Shpg. wt., 3 lbs. \$4.65

EVERHOT TIMER CLOCK

RAPID ELECTROPLATERS STANDARD MODELS



A complete, handy kit for quick, convenient electroplating of reflectors, fittings, household articles, etc. Restores gleaming finishist like new. Easy touse; complete instructions furnished. Kit includes: I oz. of compound, I oz. metal polish, anode brush, wires with clips attached, emery paper, brass strips for practice, 2 dry cell batteries, and battery holder. Sufficient compound is included to plate 100—150 square inches of surface. Ideal for auto mechanics, for replating reflectors, nickled fittings, etc. Don't throw away articles from which plating has worn off; replate them yourself at very small cost. Anyone can do it. Shpg. wt., 2 lbs. 83-910. For replating all silver \$ 1.83

83-910. For replating all silver \$1.83 or silver-plated objects. NET..... 83-911. For replating cadmium, \$1.47 nickel, etc. NET.....

ECONOMY MODELS

NICKEL ELECTROPLATER. Contains 1 oz. compound, 1 oz. metal polish, anode brush, wires with clips, emery paper, etc. Uses 1 No. 6 dry cell (not included). Wt., 1½ lbs. 83-912.

CHROMIUM ELECTROPLATER. For replating all chromium-finished objects. Same as 83-912 but has 1 oz. chromium compound. Requires 1 No. 6 dry cell (not included). 1 ½ lbs.

83-913. \$1.10

WILCOX-GAY SOUND EFFECTS



A complete kit that furnishes professional-type sound effects for your home recordings. Re-creates the roll of thunder, ringing of doorbell, wash of waves on the seashore, steamboat whistle, police-car siren, clop-clop of horses' hoofs, patter of rain, rattle of machine guns, etc. Enables you to furnish the proper kind of sound-effects setting for any skit. Supplied with clear, easy-to-follow instructions. Will add wonderful realism and greater interest to every home recording. A necessity for every owner of home recording equipment. Shpg. wt., 2 lbs.

83-920. NET.

NEW MUSICRAFT—MASTERPIECE RECORDS



The world's greatest music
—recorded by noted artists
and concert groups—now at
Musicraft's incredibly low
prices! All Musicraft Masterpiece 10" and 12" records
are recorded on both sides and are
freshly made from recently recorded
masters. Artists, though not mentioned
by name, are first-ranking musicians.
Order in quantities for extra savings!
(For complete listings of single records,
see page 205.) Average shpg. wt., one
record—3/4 lb.; six records—4 lbs.

10-INCH RECORDS

L'Arlesienne Suite (Bizet). Parts 1and 2. L'Arlesienne Suite. Parts 3 and 4. Sym. Orch. Le Cygne (Saint-Saens). Gavotte in E Major (Bach). Violin, piano. Minuet (Boccherini). Londonderry Air. Violin and piano.

NET EACH.....29c

Arlesienne Suite 8-570. Pizzicati, Sylvia Ballizet). Parts land 2. Iet. (Delibes). Coppella Entr'acte, waltz. Sym. Orch.

8-572. La Golondrina. Over the Waves. Symphony Orchestra.

12-INCH RECORDS

12-015. Rosamunde Overture (Schubert). Sym. Orch.

12-016. Merry Wives of Windsor Overture (Nicolai). Sym. Orch.

12-007. Euryanthe Overture (Weber). Sym. Orch.

NET EACH49c

8-573. Aloha Oe. Goodbye Forever. Soprano, piano.

12-018. Dance of the Hours
(Ponchielli). Sym. Orch.
12-019. Hungarian Rhapsody, No. 2 (Liszt).
Symphony Orchestra.
12-017. Poet and Peasant
Overture (Von Suppé).
Symphony Orchestra.

RCA-VICTOR SPRING-WOUND RECORD PLAYER VALUE

ONLY

D 95



Enjoy recorded entertainment with any battery radio set. This new and extremely attractive RCA-Victor Spring-Wound Record Player transforms any battery-operated radio receiver with phono connection or adapter (page 56) into an efficient radio phonograph. Plays all records through radio set with all the volume and fidelity usually obtained from the radio. The mechanical, springwound motor does not use any current, and thus involves no additional battery drain. Amazingly low-priced, this new Record Player brings you added entertainment, added enjoyment, from the vast range of recordings now available.

WORKS WITH ANY RADIO

WORKS WITH ANY RADIO

It's easy to connect; just plug phonograph cable into phono jacks of radio set—no involved rewiring or bother. Features include: improved feather-touch Crystal Pickup, housed in a lightweight, plastic tone arm of modern design; volume control so that you can regulate volume to suit yourself; spring-wound motor, completely governed to maintain a constant speed, and with manual speed regulator; manual start and stop. 8-inch turntable plays all 10' and 12" 78-RPM records. Beautifully housed in compact cabinet of attractively grained heart walnut veneer. Measures: 6" high, 12½" wide, 10" deep. With 6-foot cable. For operation with any battery radio. A splendid value at this low price. Wt., 9 lbs. \$8.95

LEARN SPANISH EASILY AT HOME





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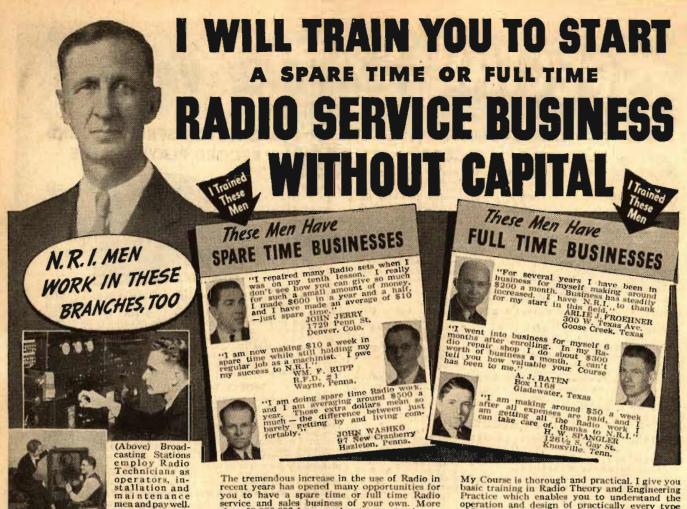
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55	.98	1.23	1.44	1.95	2.28	2.95	4.13	5.57
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COMPLETE INDEX

Crystal (Cont'd.)

The second secon
A BATTERIES
A123, 124, 126, 193 Testers126, 127 Adapters, Kits54, 56 Headphone56, 159, 160 Microphone56
Headphone56, 159, 160
Phono
Testing, Modernizing.54-56 Aerial Equipment Auto
Home182-185, 189
Air-Cell Battery126 Albums139, 195, 207
Alignment Tools174
Amateur Equipment. 129-155
Sets129-133, 135
Transceivers131, 134, 148 Transmitters134, 142
Amplifiers69-79, 86
Kits
Analyzers41-53, 181 Antenna Equipment
58, 59, 151, 152, 182-185 Appliance Testers, 45, 46, 49
Kits
Audio Oscillators43, 53 Audio Transformers119-122
Auto Aerials
Cable58, 59 Fuses, Holders59, 172
Ignition Analyzer 52
Radio Accessories 57-60, 101 Radio Filters 59 Radio Lock 166 Remote Control 30, 60 Sets 30 Suppressors 59 Automatic Record Changers 79, 86-88, 208
Radio Filters 59
Remote Control30, 60
Suppressors 59
Automatic Record Changers
PAFFLES 95-97, 99
B Stands 95
Bakelite Knobs144, 166 Panels and Tubing169
Bakelite Knobs144, 166 Panels and Tubing169 Ballasts37-40, 200 Barrain Pages 187-195
Stands 95 Bakelite Knobs 144, 166 Panels and Tubing 169 Ballasts 37-40, 200 Bargain Pages 187-195 Batteries
Bakelite Knobs
A.""B,""C"123-126, 193 Air Cell
Air Cell
A," "B," "C" 123-126, 193 Air Cell
Air Cell 123-126, 193 Air Cell 126 Ballasts 123, 126 Chargers 126, 128, 193 Clips 172 Electric Shaver 123 Eliminators 28, 127, 193 Flashlight 123, 193 "Hot Shot" 123
Air Cell 123-126, 193 Air Cell 126 Ballasts 123, 126 Chargers 126, 128, 193 Clips 172 Electric Shaver 123 Eliminators 28, 127, 193 Flashlight 123, 193 "Hot Shot" 123
Air Cell
Air Cell 123-126, 193 Air Cell 126 Ballasts 123, 126 Chargers 126, 128, 193 Clips 172 Electric Shaver 123 Eliminators 28, 127, 193 Flashlight 123, 193 "Hot Shot" 123 Packs 123-125 Plugs 123, 124 Fortable 123-125
Air Cell 123-126, 193 Air Cell 126 Ballasts 123, 126 Chargers 126, 128, 193 Clips 172 Electric Shaver 123 Eliminators 28, 127, 193 Flashlight 123, 193 "Hot Shot" 123 Packs 123-125 Plugs 123, 124 Fortable 123-125
Air Cell
Air Cell 123-126, 193 Air Cell 126 Ballasts 123, 126 Chargers 126, 128, 193 Clips 172 Electric Shaver 123 Eliminators 28, 127, 193 Flashlight 123, 193 "Hot Shot" 123, 124 Portable 123-125 Plugs 123, 124 Portable 123-125 Sets 28, 29 Storage 126, 193 Testers 41, 126, 127 B. F. (Oscillators), Kits, 53 Bell Transformer 190 Wire 185 Bias Cells 40 Binding Posts 171, 172 Blow Torches 177, 178 Books 61-64 154, 158, 189, 190, 191 Brackets 153 Bridge, Capacity & Resistance 53 Bulb Remover 173, 24, 40, 165
Air Cell 123-126, 193 Air Cell 126 Ballasts 123, 126 Chargers 126, 128, 193 Clips 172 Electric Shaver 123 Eliminators 28, 127, 193 Flashlight 123, 193 "Hot Shot" 123, 124 Portable 123-125 Plugs 123, 124 Portable 123-125 Sets 28, 29 Storage 126, 193 Testers 41, 126, 127 B. F. (Oscillators), Kits, 53 Bell Transformer 190 Wire 185 Bias Cells 40 Binding Posts 171, 172 Blow Torches 177, 178 Books 61-64 154, 158, 189, 190, 191 Brackets 153 Bridge, Capacity & Resistance 53 Bulb Remover 173, 24, 40, 165
Air Cell
Air Cell 123-126, 193 Air Cell 126 Ballasts 123, 126 Chargers 126, 128, 193 Clips 172 Electric Shaver 123 Eliminators 28, 127, 193 Flashlight 123, 193 "Hot Shot" 123, 125 Plugs 123, 124 Portable 123-125 Sets 28, 29 Storage 126, 193 Testers 41, 126, 127 B. F. (Oscillators), Kits. 53 Bell Transformer 190 Wire 185 Bias Cells 40 Binding Posts 171, 172 Blow Torches 177, 178 Books 61-64 154, 158, 189, 190, 191 Brackets 153, 173 Bridge, Capacity & Resistance 53 Bulb Remover 65 Bulbs 37, 39, 40, 165 Burglar Alarm 158 Buzzer Button 166 CABINETS
Air Cell 123-126, 193 Air Cell 126 Ballasts 123, 126 Chargers 126, 128, 193 Clips 172 Electric Shaver 123 Eliminators 28, 127, 193 Flashlight 123, 193 "Hot Shot" 123, 125 Plugs 123, 124 Portable 123-125 Sets 28, 29 Storage 126, 193 Testers 41, 126, 127 B. F. (Oscillators), Kits. 53 Bell Transformer 190 Wire 185 Bias Cells 40 Binding Posts 171, 172 Blow Torches 177, 178 Books 61-64 154, 158, 189, 190, 191 Brackets 153, 173 Bridge, Capacity & Resistance 53 Bulb Remover 65 Bulbs 37, 39, 40, 165 Burglar Alarm 158 Buzzer Button 166 CABINETS
Air Cell
Air Cell
Air Cell

Cable (Cont'd.)	
Coaxial15	1, 174
Coaxial15 Connectors58, 59, 94, 15	
Dial	1, 170
Housing	50
Housing Intercom 8 Microphone 94, 18 Plugs 58, 9	2 184
Microphone94, 18	4, 186
Plugs58, 9	4, 170
Speaker	34-180
Calculators	4. 111
Call Systems	82
Call Systems Capacity Indicators Carbon Granules Carbon Mikes Carbon Mikes	53
Carbon Mikes	99
Carbon Resistors1	09-111
Carrying Cases35. 9	5. 207
Carrying Cases35, 9 Cement102, 133	8, 177
Chanalyst126, 12	43
Chargers126, 12	8, 193
Bulbs Chassis, Bases. 153, 16 Cradle	40
Chassis, Bases153, 16	8, 169
Punches	175
Chimes System	80
Chokes	
The state of the s	
119, 120, 122, 14	0, 141
Plate	0.139
R. F	39,
142, 145, 146, 15	2, 163
Circle Cutter	175
DARCAIN SECTION	,
BARGAIN SECTION	
See Pages 187-19	
Outstanding buys! Bra	ind-
new, first quality merchan at tremendous savings!	See
Special Value pages 187-	195.

Coils Fairbanks-Morse 163 Field 102 Forms 138, 145, 146, 152, 163 L. F. 162, 163 Kits.146, 154, 155, 162, 163 Oscillator 162, 163 Phono Osc. 163 Primary 162 R. F. 162, 163 Shields 147, 169 Short-Wave 145, 147, 149 Winder 163 Color Code Guide 109 Communications Receivers 123-133, 135 Condensers Blocks 113 Couplings 142, 143, 144, 154, 147, 151, 152, 164 Electrolytic 112-118 Exact Duplicate 113 Filter 112-118, 143 Kits 113, 114 Mica 113, 114 Mica 113, 114 Mica 113, 114 Mica 113, 114 Mica 113, 114 Mica 114 Mica 116, 118, 140, 143 Padding 146, 164 Testers 52, 53 Transmitting 140-144 Testers 52, 53 Transmitting 140-144 Testers 146, 147, 149, 150 Trimmer 146, 147, 149, 164 Variable 141, 142 144, 146, 147, 149, 164 Vibrator 188, 143, 115, 117, 118 Cones 102 Commectors 94, 151, 170, 118 Cones 102 Commectors 94, 151, 170, 171 Converters 28, 126, 127 Cord Tips 71 Crystal 139 Detectors 162 ARE ALWAYS LOWEI

Headphones	159
Headphones Holders Microphones91 Pickups78, 88, Sets and Kits	139
Microphones91,	92
Pickups78, 88,	89
Sets and Kits	a su
154, 160, 161,	190
DECADE BOXES. Diagrams. 154, 156, Dials. 142, 144, 153, 165, Accessories, 164, 165, Lights	-
ECADE BOXES	53
Diagrams, 154, 156,	189
Dials142, 144, 153, 165,	166
Accessories, 164, 165.	169
Lights37, 39, 55,	165
Plates 166	167
Dises Recording 84	188
Drille	176
Daill Course	176
Drift Gauge	100
2012	1000
Electrolic Lab.	
L'EUTRICAL AFFEI	100
ANGES192,	133
Electric Eye	108
Kit	194
Electronic Lab	156
Electroplating Kit	194
Eliminators	1 2007
A & B127,	193
Interference59,	
180, 181, 188, 189,	194
A & B	186
CARM POWER EQUIP-	
FARM POWER EQUIP-	
Generators 126	128
Storage Batteries	126
Windeharger	198
Farm Padio Fouinment	Lao
Pattary Cats	90
20 Valt Conventors 196	197
32 Voit Converters, 120,	100
Field Colls	102
Exciter96, 98,	99
Filament Transformers	
	141
Filters, Aerial59, 181.	183
Line 180, 181, 188, 189,	194
Filter Chokes	
119 120 122 140	141
Flashlight	193
Flashlight	193 193
Flashlight	193 193 39
Flashlight Batteries123, Bulbs Fluorescent Fixtures and	193 193 39
Flashlight Batteries	193 193 39
Flashlight Batteries	193 193 39 204
FARM POWER EQUIPMENT Generators 126, Storage Batteries Windcharger Farm Radio Equipment Battery Sets 28, 32 Volt Converters.126, Field Coils Exciter 96, 98, Filament Transformers 119, 140, Filters, Aerial 59, 181, Line 180, 181, 188, 189, Filter Chokes 119, 120, 122, 140, Flashlight Batteries 123, Bulbs Fluorescent Fixtures and Accessories 194, 200- Lamps Frequency Modulation	193 193 39 204 203
Flashlight Batteries	193 193 39 204 203
Flashlight Batteries	193 193 39 204 203
Flashlight Batteries 123, Bulbs Fluorescent Fixtures and Accessories 194, 200- Lamps Frequency Modulation Adapter Antenna Backs 282	193 193 39 204 203 13 183
Flashlight Batteries	193 193 39 204 203 13 183 63
Flashlight Batteries	193 193 39 204 203 13 183 63 163
Flashlight Batteries 123,- Bulbs Fluorescent Fixtures and Accessories 194, 200- Lamps Frequency Modulation Adapter Antenna Books 62, Coils Sets 19, 79,	193 193 39 204 203 13 183 63 163
Flashlight Batteries 123, Bulbs Fluorescent Fixtures and Accessories 194, 200- Lamps Frequency Modulation Adapter Antenna Books 62, Colls Sets 19, 79, Speakers	193 193 39 204 203 13 183 63 143 143
Flashlight Batteries 123, Bulbs Fluorescent Fixtures and Accessories 194, 200- Lamps Frequency Modulation Adapter Antenna Books 62, Coils Sets 19, 79, Speakers Tuner 79,	193 193 39 204 203 13 183 63 163 1431 99 1:31
Flashlight Batteries 123, Bulbs Fluorescent Fixtures and Accessories 194, 200- Lamps Frequency Modulation Adapter Antenna Books 62, Coils Sets 19, 79, Speakers Tuner 79, Tuner Kit	193 193 39 204 203 13 183 63 1431 99 131 157
Adapter Antenna Books 62, Colls Sets 19, 79, Speakers Tuner 79, Tuner Kit Frequency Standard	13 183 63 163 131 95 131 157
Adapter Antenna Books 62, Colls Sets 19, 79, Speakers Tuner 79, Tuner Kit Frequency Standard	13 183 63 163 131 95 131 157
Adapter Antenna Books 62, Colls Sets 19, 79, Speakers Tuner 79, Tuner Kit Frequency Standard	13 183 63 163 131 95 131 157
Adapter Antenna Books Coils Sets 19, 79, Speakers Tuner Tuner Kit Frequency Standard Friction Tape Fuses & Mountings, 172,	13 183 63 163 131 93 131 157 142 175
Adapter Antenna Books Coils Sets 19, 79, Speakers Tuner Tuner Kit Frequency Standard Friction Tape Fuses & Mountings, 172,	13 183 63 163 131 93 131 157 142 175
Adapter Antenna Books	13 183 63 163 131 99 131 157 142 175 175
Adapter Antenna Books	13 183 63 163 131 99 131 157 142 175 175
Adapter Antenna Books	13 183 63 163 131 99 131 157 142 175 175
Adapter Antenna Books	13 183 63 143 131 99 131 157 142 175 175
Adapter Antenna Books	13 183 63 131 99 131 157 142 175 175 128 169 109 109 109 109 109 109 109 109 109 10
Adapter Antenna Books	13 183 63 131 99 131 157 142 175 175 128 169 109 109 109 109 109 109 109 109 109 10
Adapter Antenna Books 62, Coils Sets 19, 79, Speakers Tuner 79, Tuner Kit Frequency Standard Friction Tape Fuses & Mountings 172, CENERATORS 126, Grid Caps 145, 152, Grid Leaks Grille Cloth Grinder Grommets Ground Clamps	13 183 63 181 99 131 157 7142 175 1175 1128 1169 1176 1173 1182
Adapter Antenna Books 62, Coils Sets 19, 79, Speakers Tuner Kit Frequency Standard Friction Tape Fuses & Mountings, 172, CENERATORS 126, Grid Caps, 145, 152, Grid Leaks Grille Cloth Grinder Grommets Ground Clamps Ground Rods	13 183 163 163 131 157 157 175 175 175 176 176 176 176 178 178 178 178 178 178 178 178 178 178
Adapter Antenna Books 62, Coils Sets 19, 79, Speakers Tuner Kit Frequency Standard Friction Tape Fuses & Mountings, 172, CENERATORS 126, Grid Caps, 145, 152, Grid Leaks Grille Cloth Grinder Grommets Ground Clamps Ground Rods	13 183 163 163 131 157 157 175 175 175 176 176 176 176 178 178 178 178 178 178 178 178 178 178
Adapter Antenna Books 62, Coils Sets 19, 79, Speakers Tuner Kit Frequency Standard Friction Tape Fuses & Mountings, 172, CENERATORS 126, Grid Caps, 145, 152, Grid Leaks Grille Cloth Grinder Grommets Ground Clamps Ground Rods	13 183 163 163 131 157 157 175 175 175 176 176 176 176 178 178 178 178 178 178 178 178 178 178
Adapter Antenna Books 62, Coils Sets 19, 79, Speakers Tuner Kit Frequency Standard Friction Tape Fuses & Mountings, 172, CENERATORS 126, Grid Caps, 145, 152, Grid Leaks Grille Cloth Grinder Grommets Ground Clamps Ground Rods	13 183 163 163 131 157 157 175 175 175 176 176 176 176 178 178 178 178 178 178 178 178 178 178
Adapter Antenna Books 62, Coils Sets 19, 79, Speakers Tuner Kit Frequency Standard Friction Tape Fuses & Mountings, 172, CENERATORS 126, Grid Caps, 145, 152, Grid Leaks Grille Cloth Grinder Grommets Ground Clamps Ground Rods	13 183 163 163 131 157 157 175 175 175 176 176 176 176 178 178 178 178 178 178 178 178 178 178
Adapter Antenna Books 62, Coils Sets 19, 79, Speakers Tuner Kit Frequency Standard Friction Tape Fuses & Mountings, 172, CENERATORS 126, Grid Caps, 145, 152, Grid Leaks Grille Cloth Grinder Grommets Ground Clamps Ground Rods	13 183 163 163 131 157 157 175 175 175 176 176 176 176 178 178 178 178 178 178 178 178 178 178
Adapter Antenna Books	13 63 143 143 143 143 143 143 175 175 175 176 176 176 176 176 176 176 176 176 176
Adapter Antenna Books . 62, Coils Sets . 19, 79, Speakers Tuner . 79, Tuner Kit Frequency Standard Friction Tape Fuses & Mountings, 172, CENERATORS . 126, Grid Caps . 145, 152, Grid Leaks Grille Cloth Grinder Grommets Ground Clamps Ground Rods HALLICRAFTERS . 79, 129- Hammarlund . 133, 146, Handbooks . 61-64, 139, 154, 158, 190, Hardware . 173, Headphones . 159- Accessories Accessories 159-161, 171	13 63 163 131 157 131 157 173 169 175 175 175 175 175 175 175 175 175 175
Adapter Antenna Books . 62, Coils Sets . 19, 79, Speakers Tuner . 79, Tuner Kit Frequency Standard Friction Tape Fuses & Mountings, 172, CENERATORS . 126, Grid Caps . 145, 152, Grid Leaks Grille Cloth Grinder Grommets Ground Clamps Ground Rods HALLICRAFTERS . 79, 129- Hammarlund . 133, 146, Handbooks . 61-64, 139, 154, 158, 190, Hardware . 173, Headphones . 159- Accessories Accessories 159-161, 171	13 63 163 131 157 131 157 173 169 175 175 175 175 175 175 175 175 175 175
Adapter Antenna Books	13 63 163 131 131 157 174 175 175 175 176 176 176 176 176 177 178 178 178 178 178 178 178 178 178
Adapter Antenna Books	13 63 163 131 131 157 174 175 175 175 176 176 176 176 176 177 178 178 178 178 178 178 178 178 178
Adapter Antenna Books	13 63 163 131 131 157 174 175 175 175 176 176 176 176 176 177 178 178 178 178 178 178 178 178 178
Adapter Antenna Books	13 63 163 131 131 157 174 175 175 175 176 176 176 176 176 177 178 178 178 178 178 178 178 178 178
Adapter Antenna Books	13 63 163 131 131 157 174 175 175 175 176 176 176 176 176 177 178 178 178 178 178 178 178 178 178
Adapter Antenna Books	13 63 163 131 131 157 174 175 175 175 176 176 176 176 176 177 178 178 178 178 178 178 178 178 178
Adapter Antenna Books	13 63 163 131 131 157 174 175 175 175 176 176 176 176 176 177 178 178 178 178 178 178 178 178 178
Adapter Antenna Books . 62, Coils Sets . 19, 79, Speakers Tuner . 79, Tuner Kit Frequency Standard Friction Tape Fuses & Mountings, 172, CENERATORS . 126, Grid Caps . 145, 152, Grid Leaks Grille Cloth Grinder Grommets Ground Clamps Ground Rods HALLICRAFTERS . 79, 129- Hammarlund . 133, 146, Handbooks . 61-64, 139, 154, 158, 190, Hardware . 173, Headphones . 159- Accessories Accessories 159-161, 171	13 63 163 131 131 157 174 175 175 175 176 176 176 176 176 177 178 178 178 178 178 178 178 178 178

TNSULATORS138, 144,
146, 151, 152, 172, 182
Intercom. Systems 82
Interference Analyzer
180, 181
Filters
Locator
Locator
Inverters
TACKS AND PLUGS94,
JACKS AND PLUGS94, 145, 151, 152, 171, 172
TEVS
KEYS Transmitting 136
KEYS Transmitting136
Adapter54, 56 Amplifier154-156
Adapter

HOW TO ORDER

See page 197 for helpful data on how to order and important information concerning prices and supply.

mg prices and supply.
"Popular Mechanics". 156 Receiver. 154-157, 160 Recorder . 156 Sound Effects . 194 Test . 54-56 Transceiver . 134, 155 Transmitter . 134, 155 Treasure Finder . 156 Volume Expander . 155 Knight
Receiver 154-157 160
Recorder
Sound Effects 194
Test 54-56
Transceiver 134 155
Transmitter 134 155
Treasure Finder 156
Volume Eypander 155
Knight .
Aerials
Amplifiers 69-81 86
Batteries 123 126
Books 61
Colls
Intercom, Systems 82
Kits55, 56, 154-158
Phono Equip 78, 79, 90
Record Player
Recorder 81, 83, 85, 189
Resistors109, 110
Knight Acrials
Speakers
Transformers, 119, 121, 152
Tubes
Vibrators 69
Volume Controls
Vibrators
- 4001/1500 +400
ACQUERS
Lamps 175, 192, 201, 203
Fluorescent 203
Lamp Banast200
Lamp Com185
Liebtering 38, 182, 184, 185
Line Pallesters182, 184
Cords (6
Tien Wiles
Loop Antonnae 109 102 100
Luce 179 173
Lamps 175, 192, 291, 203 Fluorescent 203 Lamp Baffast 204 Lamp Cord 185 Lead-ins 58, 182, 184, 185 Lightning Arresters 182, 184 Line Ballasts 49 Cords 40 Litz Wire 185 Loop Antennas 182, 183, 188 Lugs 172, 173
MAGNET WIRE 184-186
IVI Magnetic Speakers 100
Majestic I.F. Colls163
Manuals
61-64, 134, 137, 154, 157,
158, 162, 181, 139, 191
Meters 54-56, 85, 150
MAGNET WIRE 184-186 Magnetic Speakers 100 Majestic I.F. Colls 163 Manuals 35 61-64, 134, 137, 154, 157, 158, 162, 181, 189, 191 Meters 54-56, 85, 159 Cases 54, 56, 168 Dial Scales 55 Rectifiers 54
Dial Scales 55
Rectifiers 54 Micrometer 176 Microphones 91-93, 190 Accessories 93, 94, 190 Adapters 56, 190 Cable 94, 184, 186
Micrometer
Microphones91-93, 190
Accessories93, 94, 190
Adapters
Cable94, 184, 186

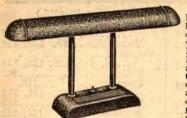
COMPLETE INDEX

١				
å	Microphones (Cont'd.)	Power Packs	Shaft Couplings	Transfo
	Connectors, Plugs 94	126, 127, 132, 193	142, 145, 147, 151, 152, 164	Micro
	Stands	Precision Resistors54, 111 Preselector132	Extensions 106, 151, 164 Shield Cans 147, 168, 169	Modu
	Switches	Preselector Coils163	Short Wave	Output
	Mobile PA Systems76, 77	Presto Discs 84	Books61, 63, 64	Divis
	Mounting Strips142, 172	Recorders 83	Coils and Forms138,	Phile Powe
	NAME PLATES153, 166	Projector, Speakers97, 98 Public Address Equipment	145, 146, 149, 152, 163 Condensers141,	121
7	National133, 144, 145	66-82	142, 144, 146, 147, 164	Rebui
	Needles84, 85, 206 Needle Sharpener195, 207	Punches, Socket175	Kits154, 155, 157	Step-
1	Neon Lamps 40	Push-Button Switch.166, 167 Pyrometers 52	Sets129-133, 135 Signal Generators	119
	Neutralizing Tools174	TO THE RESIDENCE OF THE PROPERTY OF THE PROPER	41-44, 46, 47, 49, 51-53	Tube
	Noise Filters Auto 59	RACKS and PANELS	Signal Shifter148	Vibra Transm
1	Home Radio		Signal Tracer41, 43, 53	Aeria
1	180, 181, 188, 189, 194	Radio Chassis Bases153, 168, 169	Slide-Rule	P
		R. F. Chokes139,	142, 144-146, 151, 165, 170	Book
	EASY PAYMENT TERMS	142, 145, 146, 152, 163	Socket Wrenches175, 177	141
	On Public Address, Test	Radio-Phono Combinations 13, 15, 17, 20-26, 83, Cov. 4	Punches	Coils
-	Equipt. & Amateur Sets	Radio Sets1-32,	Soldering Irons178, 179	Cond
	Public Address Equipment,	129-133, 135, covers, 2, 3, 4	Sound Equipment66-82	Cond
	Amateur Receivers, and Test Equipment listed in this cata-	Raytheon36, 37, 138 R. C. A.	Spaghetti169, 185 Speakers79, 96-101	Cryst
	log may be purchased on a convenient Time Payment	Aerials182	Adapters 56	Dials
	Plan, providing your order amounts to minimum re-	Dynamic Demonstrator. 42	Baffles95-97, 99	Insul
	amounts to minimum required. Terms are shown—see	Phono Equipment	Cable98, 184, 186	1
	pages 41-53, 66-81, 129-135. For quick service, send in	Test Equipment42, 43	Cases95, 96, 99-100, 168 Cement102	Keys Kits
	your order with down pay-	Tubes34, 35, 137	Cones	Meter
	ment and references.	Readrite	Dynamic96, 98, 101	Moni
	and the second second	Albums195, 207	Extension Cords 98 Field Coils102	Racks
	OSCILLATORS	Cabinets206, 207	Field Supplies96, 98, 99	Switc
	41, 43, 44, 40, 47,	Changers79, 86-88, 208	Horns	Tube
	49, 51-53, 136, 148, 190 Coils	Code Practice135	Magnetic	Treasur
	Oscilloscopes41, 42, 51, 144	Labels, Envelopes 84	Repairs	Trouble
	Output Indicator55, 85	Players 900	Shims102	Trumpe
	DANELS153, 169	Recording Equipment 78, 79,	Stand	Tubes Adap
	Cutter	81, 83-86, 90, 156, 189	Stands, Microphone 93	Balla
	Lights37, 39, 40, 55, 165	Accessories83-86, 90, 188	Station Allocator 42	Catho
	Phones	Books	Staples	Heari Minia
	159-161, 171, 185	Discs84, 188	Staple Driver	Photo
	Adapters56, 159-160 Phonographs27, 195, 208	Motors78, 85, 86, 90	Storage Batteries	Resis Shiel
	Accessories78, 79, 84,	Rectifiers37, 40, 54, 127 Refinishing Kit.169, 177, 189	126, 127, 193	Socke
	85, 89, 126, 195 206, 207	Regulators, Voltage37, 40	Supressors, Auto 59 Supreme50, 51	1
	Adapters56, 207 Amplifiers78, 79	Relays	Switches	Spart Telev
	Cases	Remote Controls30, 60	Anti-Capacity167	Teste
	Combinations13,	Cable, Accessories59, 60	Foot Switch	Trans
	15, 17, 20-26, 83, Cov. 4 Mechanical195	Resistance Tubes37-39 Resistance Wire54	Microphone 94	Tubing Tuner,
	Oscillator160	Resistors	Plates150, 166, 167	Frequ
	Oscillator Coil163	Cabinet	Rotary150, 166, 167 Short-Wave150, 166, 167	Tungar
	Motors84, 85, 206	Carbon109-111	Snap194	Tuning Turntat
	market	Color Code Guide109 Kits109, 111	Toggle167	
	Portable27, 195, 208	Line Cords 40	Switch Points and Stops. 173 Switch Arm173	VACI
1	Records195, 205 Record Albums	Multiplier54, 111 Precision54, 111	Switch Atm	M 4
71	195, 205, 207	Wire-Wound109-111, 150	TAP AND DIE SET176	Variabl
	Record Changers	Rheostats106, 108, 140	Tape	142,
	27, 79, 86-88, 208 Scratch Filter 88	Rider Books	Telephones191, 192 Wire185, 191	Vibrapa Vibrato
9	Photo Cell Burglar Alarm 158	Rivets and Eyelets173 Punch Set175	Television	Conde
P	Photo Cell Equip158, 194	Rotary Converters126	Books61, 63, 64, 189	Tooto
	Kit	CCREWDRIVERS175-177	Tubes	Teste Vises .
	Pilot Bulbs37, 39, 40, 165	Screws	Test Adapters54, 56	Voltage
	Coloring Kit169	Selector Switch150, 167	Test Clips171, 172	Volt-Oh
	Sockets, Jewels165 Piters178	Service Manuals61-63, 189	Test Leads174	****
	Plug-in Coils145, 146, 163	Set-Builders' Kits154-157 Sets	Test Plugs56, 171, 172	Kits
	Forms145, 146, 152, 163	A.CD.C1-3, 6-9, 31,	Time Switch191, 194	Volume Volume
	Plugs170, 175, 193 Adapter, Analyzer56, 170	32, 132, 133, 135, Cov. 2	Tip Jacks	, ordine
	Battery123, 124	Auto	Tools	TX/AL
	Microphone 94	Chassis17, 18	Chest	THE VALUE OF
	Phone94, 171 "Popular Mechanics" Kits 156	Crystal154, 160, 161, 190 F. M. Tuner13, 79	Transceivers131, 148, Kits134, 155	Wave 7
	Portable Equipment	Frequency Mod19, 131	Transformers	Windch
	Amplifiers	Phono Combinations13,	Audio119-122, 140	Wire
	Cases	15, 17, 20-26, 83, Cov. 4 Portable31,	Bell Ringing190 Exact Duplicates122	Wire G Wireles
	Phonographs27, 195, 208	32, 130, 135, Cov. 3	Filament119, 140, 141	Wiring
	Sets31, 32, 130, 135	Short-Wave129 -133, 135	I.F162, 163	Wrench
	ALLIED DADI	O COPPOPATION 833	W HACKCON BLVD	MILLORA

Microphone94, 119, 120, 122 Modulation120, 140, 141	
Modulation 120, 140, 141	
Modulation 120, 140, 141 Output96, 119, 120, 122, 140 Philco	
96 119 120 122 140	
Philco	
Power119.	
121, 122, 140, 141, 152	
Rebuilding119	
Step-down121, 122	
Transmitting	
119, 120, 140, 141, 152	
Tube Tester 55	
Vibrator60, 120	
Transmitting	
Aerial Equipment	
D1- C1 69, 150-152	
Transmitting Aerial Equipment	
1/1 1/9 1/5 1/6 159	
Coile Forme 120	
145 146 149 152 163	
Condensers140-144.	
146, 147, 149, 150	
Crystals and Holders139	
Dials and Knobs	
Dials and Knobs	
Insulators	
Insulators	
Keys136	
Kits	
Meters	
Peaks and Danals	
Sockets 120 145 151	
Switches 150, 140, 151	
Tubes 137 129	
Treasure Finder	
Triplett44, 45, 54, 150	
Trouble Light	
Trumpets	
Tubes34-39	
Adapters 56	
Ballast37-39	
Cathode Ray	
Hearing Ald34, 36-39	
Tilliatule	
Photocell	
Kits 134, 155 Meters 150 Monitor 150, 152 Racks and Panels 153 Sockets 138, 145, 151 Switches 150 Tubes 137, 138 Treasure Finder 156 Triplett 44, 45, 54, 150 Trouble Light 174 Trumpets 97, 98 Tubes 34-39 Adapters 56 Ballast 37-39 Cathode Ray 137 Hearing Aid 34, 36-39 Miniature 34, 36-39 Photocell 137 Resistance 37-39 Shidde 147, 160	
Photocell	
Photocell	
Photocell .137 Resistance .37-39 Shields .147, 169 Sockets .138, 142, 144, 146, 170 Sparton .35 37	
Photocell .137 Resistance .37-39 Shields .147, 169 Sockets .138, 142, 144, 146, 170 Sparton .35, 37 Television .137	
Photocell .137 Resistance .37-39 Shields .147, 169 Sockets .138, 142, 144, 146, 170 Sparton .35, 37 Television .137 Testers .41, 44-50, 52, 54	
Photocell .137 Resistance .37-39 Shields .147, 169 Sockets .138, 142, 144, 146, 170 Sparton .35, 37 Television .137 Testers .41, 44-50, 52, 54 Transmitting .137, 138	
Photocell .137 Resistance .37-39 Shields .147, 169 Sockets .138, 142, 144, 146, 170 Sparton .35, 37 Television .137 Testers .41, 44-50, 52, 54 Transmitting .137, 138 Tubing .138, 169	
Photocell .137 Resistance .37-39 Shields .147, 169 Sockets .138, 142, 144, 146, 170 Sparton .35, 37 Television .137 Testers .41, 44-50, 52, 54 Transmitting .137, 138 Tubing .138, 169 Tuner, High-Fidelity .79	
Sneids	
Sneids	
Sockets	
Snielos	
Snicios	
Sockets	

FLUORESCENT LIGHTING ACCESSORIES

BUILD YOUR OWN DEPENDABLE FLUORESCENT FIXTURES



DESK LAMP KIT

DESK LAMP KIT

Enjoy the thrill that comes from building your own fluorescent deeks lamp, It's lots of fun and very easy to do with this KNIGHT "Build-Your-Own" Kit which comes complete with all parts, djagram, and instructions. The completed lamp has every feature necessary to good appearance, long life, and efficient operation. Base has grooves for holding pencils and pens. All electrical parts are Underwriters' Approved, and requirements in this regard. The scientifically designed reflector, using a single T12 15-watt fluorescent lamp, produces over three times the light obtained from an incandescent fixture using a bulb of equal wattage rating. Gives a flood of evenly distributed, cool light, climinating fatigue and eyestrain resulting from glare. Ideal for all types of desk work at home or in the office. Very attractively finished in brown wrinkle with brass trim. Positive action on-off switch in base. Complete with lamp parts, wire, reactor and starting switch. For 110-125 V. DC, or 60 cycle AC operation. Shpg. wt., 9 lbs.

83-800. Complete Kit, Less Lamp. NET......\$3.75

83-800. Complete Kit, Less Lamp. NET......\$3.75 91-524. T12 15-watt 18" lamp for above. NET...... 72c

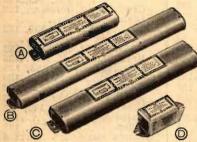
ADAPTER-LITE KIT

A modern fluorescent adapter-lite, available as a KNIGHT "Build-Your-Own" Kit containing all



83-801. Complete Kit. Less Lamp. NET.....

91-503. T12 20-watt 24" lamp for above. NET.................. 76c



200

FAMOUS G.T.C. FLUORESCENT BALLASTS

2-LAMP BALLAST-HIGH POWER FACTOR-NEEDS NO COMPENSATOR

st with sufficient current-handling capacity as to require no compensator.

No.	Mfrs. Type	Watts	Size				NET F	
78-800	40BL2	2-40	15/6x25/6x143/4"	141/4"	C	5	\$4.38	\$3.75

2-LAMP BALLASTS-HIGH POWER FACTOR-WITH COMPENSATOR

Popular	"Long-Fellow"	ballasts.	Will fit any s	tandard channe	el strip.	Save	time and	money.
78-80		2-15	15/6x25/6x141/4"	133/4"	C	4	\$3.41	
78-80		2-20	15/16x25/16x141/4"	193/4"	C	4	5.16	2.92
78-80 78-80			15/6x25/6x201/4" 15/6x25/6x171/4"		B	6	4.90	4.20
	5 100B2*	2-100	25/cx35/cx193/c"	2x185/a"	B	15	10.06	8.62

*100B2 100-watt ballast is not long-fellow type. Does not need compensator.

1-LAMP BALLAST-HIGH POWER FACTOR

Fully 90-100	% power-f	actor corre	ected. Meet power con	mpany requi	remen	ts. Une	derwriters	Approved.
78-806	15BLP	1-15	15/6x25/6x83/4"	81/4"	A	2	\$2.62	\$2.25
78-807	20BLP	1-20	15/6x25/6x83/4"	81/4"	A	2	2.62	2.25
78-808	30BLP	1-30	15/16x25/16x141/4"	133/4"	C	4	3.72	3.18
78-809	40BLP	1-40	15/16x25/16x1141/4"		C	5	3.72	3.18
78-810	100RP	1-100	25/ex35/ex1313/e	2-131/4"	C	10	7.00	6.00

1-LAMP BALLAST-NORMAL POWER FACTOR

50-60% power-factor corrected. For use where higher corrected units are not required. \$0.57 \$0.48 .57 .48 2.10 1.80 2.10 1.80 78-811 78-812 78-813 78-814 1 1/4 x 1 3/4 x 4 1/4" 1 1/4 x 1 3/4 x 4 1/4" 1 5/6 x 2 5/6 x 8 3/4" 1 5/6 x 2 5/6 x 8 3/4" 15B 20B 30B 40B

MULTIPLE LAMP BALLASTS-NORMAL POWER FACTOR

Same as 1-lamp ballasts immediately above, except designed for operation in 2-lamp circuits. 15/6x13/4x63/4" 15/6x13/4x63/4" 78-815 | 215B 78-816 | 220B 513/16-61/2"

FOR COMPLETE INDEX TURN THIS PAGE

HOW TO ORDER INFORMATION APPEARS ON PAGE 197

ARROW H & H FLUORESCENT LIGHTING ACCESSORIES



High quality fluorescent starter switch and socket assemblies. Average shpg. wt., 8 oz.

STARTERS-FIG. A

		Watts		
78-850	FS2	15 or 20 30 or 40	28c	\$2.52
78-851			" Stance	1200
78-852	FS6	100	60c	5.40

LAMPHOLDER SOCKETS-FIG. B

No.	Watts	Color	Each	10 For
78-860	{15, 20 30 or 40}	Black	16c	\$1.44
78-861	[30 or 40]	White	18c	1.62
78-862	100	White	34c	3.06

STARTER SOCKETS—FIG. C For use with 78-860 and 78-861 holders above 78-853. 10 For \$1.17 NET EACH. 13C

COMBINATION STARTER SOCKET & LAMPHOLDER-FIG. D

No.	Watts	Color	Each	10 For
78-865 78-866	{15, 20, 30 or 40}	Black White	28c	\$2.52
78-867	100	White	500	2.70

FLUORESCENT BALLAST-LAMP FOR 14 WATT LAMPS

Intermediate base GE ballast amp for 2-14 watt fluorescent lamps. T 10. 78-870. NET EACH 45c

52-854. Cleat Socket..... 15c



Permit opera-tion of A C fluorescent fix-tures from 105-125 volts DC.



FIG. A. Sprague Type PF. Resistor ballasts for operating fluorescent lamps from 110 volts DC. Fits wall outlet. Wt., 1 lb. 78-875. For 15 watt T8. 78-876. For 20 watt T12. \$1.76

FIG. B. Clarostat Type FT Resistor. Plugs into outlet. 1½" dia. x 3¾". ½ lb.! 78-880. For 15 watt T8 or T12 lamps. 78-881. For 20 watt T12 lamps. 81c81c

FIG. C. Clarostat Type GT. Fits standard fluorescent channel. 7" x 11%" x 11%". 1 lb. 78-882. For 15 watt 78. EACH 78-883. For 15 watt T12. \$1.13

See pages 194 and 201-204 for complete listings of fluorescent lamps and fixtures

POPULAR FLUORESCENT LAMP VALUES

Fluorescent lighting—the cool and brilliant modern miracle of lighting science—is available here in all needed forms. Saves you money, reduces eyestrain, increases working efficiency, reduces errors, and puts maximum sales appeal in store interiors, show win-

Fixtures ... pages 194, 201-204. Lamps....page 203.

dows, counter displays, etc. Increased brilliance, up to three times that of incandescent lights of equal wattage rating, means money saved on your light bill. A complete line of latest money-saving values in fluorescent equipment is listed in this catalog as follows;

Ballasts, Starters, Seckets, etc...page 200.





MITCHELL DAYLIGHT DESK LAMPS

The economy model is a rich-looking, graceful, fluorescent desk lamp at an amazingly low price! Sturdy and substantial in construction with miraculously high lighting performance. Parabolic reflector with chip-proof white enamel surface diffuses light evenly. Finished in durable morocco brown. Underwriters' Approved materials used throughout 14½" high, Shade is 18" long; base, 10" long, 5½" wide with pen-trough and on-off switch. Complete with approved cord and plug. Uses 1—78 15-watt lamp; operates from 105-125 volts, 60 cycles. Less lamp. Shg. wt. 12 lbs.

91-100. EACH, \$4.52. LOTS OF 6, EACH.....\$4.17 A deluxe desk lamp in every sense of the word! Features a scientifically designed parabolic Alzak reflector which controls brilliance for proper lighting. Your eyes deserve good light. Use one of these efficient desk lamps for better light and eliminate eyestrain. Finish is lacquered bronze with satin-gold trim. 15½ high. Base is 11 long. 6½ wide. With push switch. Fully Underwriters' Approved with latest type starter and ballast for trouble-free service. Uses 1—T8 15-watt lamp; for 105-125 volts, 69 cycles. Produces glareless light over entire length of lamp. Less lamp. Shpg. wt., 11 lbs.

91-101. EACH, \$7.12. LOTS OF 6, EACH



COMPCO DELUXE DESK LAMP

Attractive deluxe desk lamp with pen and pencil set. Ideal for home or office. Modern dignified appearance blends readily with every type of surrounding. Supplies an abundance of light without glare. Finished in fine brown wrinkle. Adjustable-tilt reflector with glazed white reflecting surface for best lighting. Satin brass trim. Height, 13°. Heavy base, 11x6°. With switch. Uses 1—T8 15-watt lamp. For 105-125 V., 60 cycles. Less lamp. 7 lbs. 91-105. EACH, \$6.46.

91-106. As above, but less pen-pencil set. EACH, \$5.52. LOTS OF 3, EACH. \$5.10



COMPCO BED & UTILITY LAMP

he ideal light for greatest reading comfort.
Sentifically designed reflector with white medeled interior, produces a flood of cool, nadowless light without glare. Can be clamped on a bed of other convenient support. Has many uses. The perfect fixture for illumination of bulletin boards, pictures, music racks, pulpits, mirrors, merchandise displays, workbenches, etc. Comes completely wired, ready for instant use. Plugs into any 105-125 volt 60 cycle socket. Attractively finished in lustrous ivory or brown wrinkle. Uses 1—T8 18 15 watt lamp. On-off switch located in reflector. An exceptional value. Less lamp. Wt., 4 lbs. 91-110. In lustrous ivory enamel finish. 91-111. Drown wrinkle enamel finish. 91-13. L. brown wrinkle enamel finish.



COMPCO SPECIAL VALUE!

Big money-saving values in fluorescent desk lamps. Highest quality, Latest design. Scientifically engineered for maximum light reflection. Attractively finished in ripple brown with white enamel reflecting surface, and polished metal fittings. Completely wired with Underwriters' Approved materials. Uses 1—T8 18* 15-watt lamp. For 105 to 125 V., 60 cycle AC operation. Less lamp. Shpg. wt., 6 lbs.

91-115. EACH, \$4.51.

91-116. As above but with pen and



UNIVERSAL ADAPTER

Now—the benefits of modern fluorescent lighting are available for every lighting requirement at unbelievably low cost! This amazing new fluorescent lamp fixture screws into any 105-125 volt, 60 cycle AC socket. As easy to install as a light bulb. You will want one for every light socket in your shop, garage, etc. Scientifically designed to provide a flood of evenly diffused light. Inside of reflector finished in white enamel, outside in durable metallic bronze. Patented swivel allows the fixture to be moved around for best light distribution. Ideal for service shops, work benches, homes, offices, assembly lines, etc. Uses one standard 18" 15-watt fluorescent lamp. Produces same as 45 watts ordinary light. Saves money on your electric light bill. Less lamp. Wt. 4 lbs. 91-150. EACH, \$3.21.



POPULAR UTILITY ADAPTERS

Screws into any light socket—as easy as inserting an ordinary lamp bulb. Patented swivel permits complete 360° rotation. No danger of breaking wires. Ideal for all types of work. Throws a flood of well diffused, evenly distributed light of high efficiency. Comes complete with built-in ballast and automatic starters of the latest type. High-quality construction. Finished in durable brown wrinkle with white enameled reflector. Has loops for chain hanging. For 105-125 V., 60 cycles. Less lamps. Shipping weight, 6 lbs.

91-151. Uses 1—T8 18° 15-watt lamp. EACH, \$3.22. \$2.7

91-152. Uses 2 lamps as above. 8 lbs. EACH, \$5.17. IN LOTS OF 6, EACH............\$4.77



MITCHELL MARVELITE SHIELDED BED LAMP

A new adventure in reading comfort. Produces an abundance of cool, evenly distributed light. "Plastacele" diffusing shield hides the lamp entirely from view. Smartly styled in soft ivory or rich English bronze finish, with gold scroll ornamentation. Uses 1—T12 15" 14-watt lamp. For 105-125 volt 60 cycle AC. Clamps fit any bed. Less lamp. Shpg. wt., 4 lbs.

91-160. In soft ivory enamel finish. 91-161. In rich English bronze finish



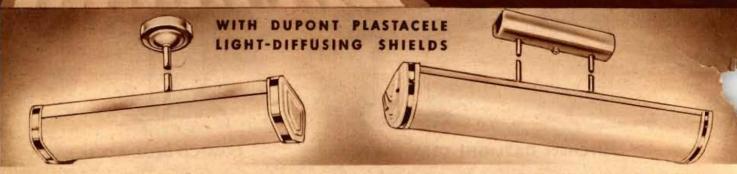
A NEW TABLE LAMP FOR HOME AND OFFICE

The newest sensation in fluorescent lighting. Gives up to three times more light at no increase in operating cost. Produces a flood of cool, evenly distributed light of high visibility Ideal for homes, clubs, offices, reception rooms, reading rooms, restaurants, night clubs, etc. Stands 27 1/2 high overall. White silk based, hand-fashioned, pleated shade is satin lined. No deterioration of shade from heat. Shade diameter, 13° at top and 16° at bottom. Has 2-way positive-starting switch. Ballast in base. "Regency" style. Silver finished base. Uses 2—T12 15° 14-watt lamps For 105-125 V., 60 cycles. Less lamps 11 lbs. 91-170. EACH, \$12.75.

COMMERCIAL FIXTURES FOR STORE AND OFFICE Modern business demands modern lighting! Fluores-cent lighting makes interiors attractive—helps self-interiors attractive—helps self-traffic. Increases store traffic. Increases merchandise and increases store eyestrain, fatigue employee efficiency by reducing your light bill. and discomfort. Saves money on your light bill.

MIRACLE OF MODERN LIGHTING

Here's the new Fluorescent Lighting at its best! It's the newer, better way to high-level, glareless illumination! It's the closest to daylight yet. And it's economical! ALLIED offers you a wide variety of easy-to-install Fluorescent Units. Let ALLIED show you the way to profits in the tremendous Fluorescent Lighting market!



COMPCO SINGLE-STEM FIXTURES

Efficient, economical light for stores, offices and display rooms. Attractively designed fluorescent fixtures with full Underwriters' Approval. Reflecting surface has exclusive Compco 'Glazenamel' finish for maximum light reflection; canopy and stem finished in baked-on satin silver; sturdy one-piece ends finished in gleaming white, trimmed in chrome. New Dupont Plastacele light-diffusing shield covers lamps. High power-factor corrected fixtures insure elimination of annoying stroboscopic effect and comply with power company requirements by offering a stabilized load to the power supply line. Both normal and high power-factor-corrected types offer increased lighting at no extra cost. Each fixture is complete, with one 24' stem. For 105-125 volts, 60 cycles AC operation. Use 24" T12 20-watt fluorescent lamps. (See page 203 for listing of lamps.)

NORMAL POWER FACTOR

Normal power factor types. For use from 105-125 volts, 60 cycles AC. Supplied less lamps.

91-000. Uses two 20-watt 24" T12 lamps. Shpg. wt., 10 lbs. EACH, \$10.07. LOTS OF 3, EACH.... \$9.30 91-001. Uses three 20-watt lamps. Otherwise same as 91-000. Ships. wt., 11 lbs. EACH. 512.31. COTS OF 3, EACH. \$11.37

HIGH POWER FACTOR

Similar to units listed at left but

high-power-factor corrected to eliminate stroboscopic effect.

91-003. Uses two T12 20-watt lamps. Shpg. wt., 11 lbs.
EACH, \$12.31.
LOTS OF 3, EACH... \$11.37

91-004. Same as 91-003 but uses three 20-watt T12 lamps. Shpg wt. 12 lbs. EACH, \$14.91. LOTS OF 3, EACH. . . \$13.77

COMPCO TWIN-STEM DELUXE FIXTURES

These beautiful and scientifically designed fixtures provide economical, efficient fluorescent lighting for hundreds of commercial and industrial applications. Readily installed in a minimum of time. Fixtures are finished in baked-on enamel for long life and attractive appearance. Reflector surfaces finished in exclusive Compco "Glazenamel" for maximum light reflection. Canopy, suspension stems, and backplate finished in satin-silver baked-on for high durability; sturdy one-piece ends are finished in gleaming white trimmed with chrome, Dupont Plastacele light-diffusing shield covers lamps. Each fixture is furnished with two 36° suspension pipe stems and is completely wirred with Underwriters' Approved G-E control units; ready for installation. Ideal wherever high-level illumination is required. High power-factor corrected to insure elimination of annoying stroboscopic effect and to comply with power company requirements by offering a stabilized load to the supply line. Use T12 40-watt 48° fluorescent lamps and have replaceable starters. Recommended for modern-minded store owners who want to dress up their store and at the same time increase lighting without increasing cost of operation. All Deluxe Compco fixtures are fully Underwriters' Approved. For 105-125 volts, 60 cycles AC. Less lamps.

91-010. Uses two T12 40-watt 48° lamps. Shpg. wt., 31 lbs.

91-010. Uses two T12 40-watt 48" lamps, Shpg. wt., 31 I EACH, \$21.41. LOTS OF 3, EACH.	
91-011. Uses three T12 40-watt 48" lamps, Shpg. wt., 34 1 EACH, \$25.02. LOTS OF 3, EACH.	S23 10
91-012. Uses four T12 40-watt 48" lamps. Shpg. wt., 48 EACH, \$30.87. LOTS OF 3, EACH	\$20.10 \$28.50



COMPCO LOW-COST FIXTURES

Efficient fluorescent fixtures with full Under-writers' Approval. Similar to the Compco fixtures described above but not equipped with Plastacele diffusion shields. Reflecting surface has "Glazename!" finish for maximum light reflection. Canopy and stem finished in baked-on satin silver; one piece ends finished in gleaming white with chrome trim. Single stem fixtures have 24" stem; use 20 watt lamps. Dual stem fixtures have 36" stems; use 40 watt lamps. All are for 105-125 volts 60 cycles AC. Supplied less lamps.



NORMAL POWER FACTOR

Normal power factor types, Use standard T12 20-watt lamps; Sup-plied with 24* length pipe stem for ceiling suspension. For use from 105-125 volts, 60 cycles AC, Supplied less lamps.

91-020. Uses two 20-watt 24"
T12 lamps. Shpg. wt., 9 lbs.
EACH, \$6.82.
LOTS OF 3, EACH.... \$6.30

91-021. Uses three 20-watt lamps. Otherwise same as 91-020. Shpg. wt., 10 lbs. EACH, \$9.06. LOTS OF 3, EACH..... \$8.37

HIGH POWER FACTOR

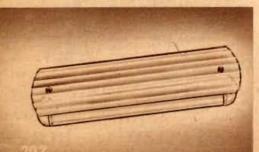
High-power-factor corrected to eliminate stroboscopic effect. Com-plies with power company re-quirements. Use T12 20-watt 24" lamps. 105-125 volts, 60 cycles AC. Supplied less lamps.

91-022. Uses two T12 20-watt lamps. Shpg. wt., 10 lbs. EACH, \$9.06. LOTS OF 3, EACH..... \$8.37

91-023, Same as 91-022 but uses three 20-watt T12 lamps. Shpg. wt., 11 lbs. EACH, \$11.37. LOTS OF 3, EACH.... \$10.50

Finished in baked-on enamel, with reflector surfaces finished in exclusive Compco "Glazenamel" for maximum light reflection. Each fixture is furnished with two 36° suspension pipe stems and is completely wired, ready for installation. Ideal wherever high-level illumination is required. High power-factor corrected to insure elimination of annoying stroboscopic effect. Use standard T12 40-watt 48° fluorescent lamps and have replaceable starters. Fully Underwriters' Approved. For 105-125 volts, 60 cycles AC. Less lamps, Will meet all power company requirements.

91-024. Uses two T12 40-watt 48* lamps, Shpg. wt., 29 EACH, \$14.91. LOTS OF 3, EACH.	\$13.77
91-025. Uses three T12 40-watt 48" lamps. Shpg. wt., 32 EACH, \$18.81.	IDS.
91-026. Uses four T12 40-watt 48" lamps. Shpg. wt., 45 EACH, \$24.37. LOTS OF 3, EACH	Ibs.

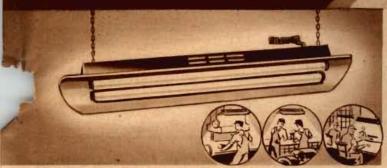


ATTRACTIVE GLASS-COVERED WALL BRACKETS

New wall bracket type fluorescent fixtures, fully Underwriters' Approved. Mount flat against wall in either vertical or horizontal position. Easily installed anywhere. Finished overall in baked-on white enamel; can be cleaned in a jiffy without damage to finish. Use standard T8 15-watt bulbs. Flat glass diffusion shield protects and conceals amp; softens and diffuses light, Ideal for use in homes for bathroom, dinette, bedrooms, etc.; can also be used for small offices, display cases, tavern or restaurant booths, lounges, reception rooms; for hallway, staircase, or corridor lighting, and dozens of other applications. Modern and attractive in design. Blend readily with every type of surrounding. For 105-125 volts, 60 cycles AC. Less lamps.

BETTER, COOLER, ECONOMICAL LIGHT

Fluorescent Lighting is better—it provides softer, more evenly diffused illumination. It's cooler—actually radiates less heat! It's economical—a 15-watt Fluorescent lamp provides as much light as a 40-watt incandescent lamp. Save as much as 50% on your light bills, or get more and better light for the same current cost!



HI-POWER TWO LAMP FIXTURE

Designed to meet the demands of industry for high levels of illumination. These units are high power-factor corrected (95-99%) using the new "Tulamp" ballast and replaceable cartridge-type starters. Extremely efficient and provide 60-70 foot candles of cool, pleasing daylight when suspended 3 feet above working surface. Rigidly constructed of heavy gauge steel with fired porcelain white enamel reflector; outside finish, blue-black baked enamel. Underwriters' Approved "Tulamp" ballast reduces stroboscopic flicker to an absolute minimum, Certified by Electrical Testing Labs, for conformance with 50 rigid electrical and mechanical requirements; all operating equipment Underwriters' Approved and meets National Electrical Code requirements. Easy to install. Supplied complete with two 8 foot hanging chains and 6 foot heavy-rubber cord with separate ground lead. Knockouts permit use of BX or conduit if required. Use two standard 40-watt T12 fluorescent lamps. Increases light at no extra cost. For 105-125 volts. 60 cycles, AC. Less lamps. Wt., 38 lbs.

91-120. NET EACH, \$14-26.



FACTORY TYPE HANGING FIXTURES

Designed especially for the industrial installation, these ruggedly built fixtures provide high-efficiency illumination at moderate cost. Reflecting surface finished in "Glazenamel" for maximum light reflection without absorption. Specially designed angular reflector, All ixtures equipped with knockouts at top-center and ends for conduit wiring. Also equipped with suspension loops for drop-chain installation, and 6 foot rubber covered cord and plug for connection to ceiling outlet. Completely Underwriters' Approved, and have replaceable starters. Ideal for shops, production or assembly lines, stockrooms, machine operators, etc. The last word in modern, efficient, economical light. For operation from 105-125 volts 60 cycles. Less lamps.

NORMAL POWER FACTOR TYPE

Stock No.	Lamps Used	Shpg. Wt. Lbs.	NET	3, EACH
91-126 91-127 91-128	1—T12 20W 1—T12 40W 2—T12 20W	12 8	\$4.71 8:12 8:12	\$4.35 7.50 7.50
	HIGH POW	ER FACTOR	TYPE	
91-129 91-130 91-131 91-132	1—T12 20W 1—T12 40W 2—T12 20W 2—T12 40W	12 8 28	\$ 7.11 10.40 10.36 14.13	\$ 6.57 9.60 9.57 13.05

WALL BRACKETS

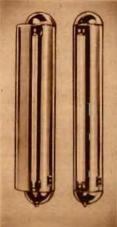
Attractive wall type fluorescent fixtures for liomes, display rooms, etc. Mount flat on wall in either vertical or horizontal position. Use 18 15-watt lamps. Finished in baked-on white enamel; easily cleaned. Deluxe model has swivel reflector, fully adjustable from side to side. For 105-125 volts 60 cycles.

STANDARD

91-181. Same as 91-183. Same as 91-180 above but has built-in AC appliance outlet. Less lamp. Wt. 1lbs. \$3.57 EACH. \$3.57 EACH. \$4.87

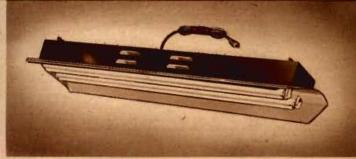
DELUXE

91-180. Standard wall bracket fixture. With on-off switch. Uses 1—T8 15-watt lamp. Less lamp Wt. 1 lbs. S3.25 Wt., 7 lbs. S4.55



INDUSTRIAL FIXTURES FOR FACTORY AND WAREHOUSE

Efficient, modern, fluorescent lighting floods working space with daylight intensity. Increases working employee relations the reducing rejects; improves relations by reducing rejects; improves and cooler light at less cost. Saves you money.



200 WATT FLOODLIGHT FIXTURE

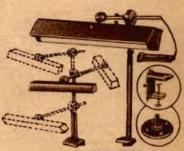
BENCH-TABLE LAMPS

A handy all-purpose fluorescent lamp that brings daylight to your work. Can be quickly installed on tables, desks, benches, walls, cellings, etc. Shade, upright and arm fully adjustable. Economical; uses less current than incandescent lamps. Highly efficient. Shade 18' long, finished in brown enamel with white coated reflector; upright adjusts from 14' to 26'; arm extends to 16'. With 9 ft. cord. Uses 1—T8 15-watt lamp. Same as 40 watts ordinary light. 105-125 volts, 60 cycles AC.

FLUSH MOUNT TYPE

For permanent installation. Has heavy cast base flange which can be bolted or screwed down, Supplied less T8 15-watt lamp, 8 lbs. 91-140. EACH, \$6.46.

LOTS OF 6, EACH. \$5.97



CLAMP MOUNT TYPE

Clamps to any table, desk or bench top. Has adjustable screw clamp opening to maximum of 2 inches. Less lamp. Wt., 8 lbs. 91-141. EACH, \$6.46. LOTS OF 6, EACH. \$5.97



G-E MAZDA FLUORESCENT LAMPS

Genuine General Electric fluorescent lamps for all fluorescent fixtures. All have standard two-pin contacts except 100 watt (*) size. Furnish non-glaring light from entire surface with even diffusion and high illumination. Most efficient light known. Use white lamps to obtain soft white light; daylight lamps for obtaining a light containing a more pronounced bluish tinge. Very long life—approximately 2,000 hours. Ideal for special lighting effects, Colored lamps for display or decorative lighting also available—write for prices. Use 6 lot price for lamps when purchased with any fixture in this catalog.

Stock No.	Туре	Watts	Size	Color	EACH	Lots of
91-520	T41/5	6	9"	Daylight	\$0.90	\$0.72
91-521	T41/2	6	O.	White	90	72
91-522	T12	14	15"	Daylight	.90	75
91-523	T12	14	15"	White	:30	: 55
91-500	T8	15	18"	Daylight	.75	.60
91-501	T8	1.5	18"	White	.75	.60
91-502	T12	20	24"	Daylight	.95	76
91-503	T12	20	24"	White	95	76
91-504	T8	30	36"	Daylight	95	76
91-505	T8	30	36"	White	95	76
91-506	T12	40	48"	Daylight	1.35	1 08
91-507	T12	40	48"	White	1.35	1.08
91-508	*T17	100	. 60"	White	3.00	2.40
91-509	*T17	100	60"	Daylight	3.00	2.40

Shpg. wts.: 91-520, 91-521, 1½ lbs.; 91-522, 91-523, 91-500, 91-501, 91-502, 91-503, 2 lbs.; 91-504, 91-505, 3 lbs.; 91-506 and 91-507, 4 lbs.; 91-508 and 91-509, 8 lbs. *Mogul 2 pin base.



COMPCO STANDARD FIXTURES

Install in ceiling-type holders as easily as replacing an incandescent bulb and shade. Ideal for kitchen, betroom, bothroom, den and reception hall. Also used in stores, offices, churches, libraries, game rooms, etc. Provides a wide distribution of cool brilliant light. Permits a big saving in your light bill. Wired with Underwriters' Approved components. Finished in lustrous white enamed, with chrome trim, Lees lamps, For 103-125 V., 60 cycle operation. Supplied with adapter to fit 4' ceiling holder. For installation in 6' ceiling holder, ask for 91-190 adapter and add 25c to your order.

NORMAL POWER-FACTOR

Without power-factor correction. Come completely wired and ready to install Highly popular. High in quality. Low in price. Use T12 20-watt 24*lamps shown on page 203.

91-035. Uses two 20-watt lamps, Shpg, wt., 8 lbs.

EACH, \$4.87. LOTS OF 3, EACH. \$4.50

91-036. Uses three 20-watt lamps. Shog, wt. 9 lbs EACH. \$7.47. LOTS OF 3, EACH. \$6.90

HIGH POWER-FACTOR

Like units at left but power-factor corrected. Meet power company re-quirements. No stroboscopic effects. Use type T12 20-watt 24 lamps. All parts Underwriters' Approved.

91-037. Uses two 20-watt lamps. Shpg. wt., 9 lbs.

EACH, \$7.11. LOTS OF 3, EACH \$6.57

91-038. Uses three 20-watt lamps. Shpg. wt., 10 lbs. EACH. \$9.42. LOTS OF 3, EACH. \$8.70

COMPCO "PLASTACELE" FIXTURES

Same as Standard Fixtures described at left, except lamps completely shielded from view with Du Pont white "Plastacele." Ideal for homes, churches, mortuaries, theatres, etc., where highly diffused, flood lighting is desired. Wired with Underwriters' Approved components: Finished in lustrous white enamel, with chrome trim. Less lamps. For 105-125 V., 60 cycle operation. Supplied with adapter to fit 4" celling holder. For installations in 6" celling holder, ask for 91-199 adapter and add 25c to your order.

NORMAL POWER-FACTOR

An inexpensive deluxe fixture, without power-factor correction. Exceptionally easy to install. Uses type T12 20-watt 24" lamps (see page 203).

91-047. Uses 2 T12-24* 20-watt lamps. Shpg. wt., 9 lbs

EACH. \$6.46. LOTS OF 3, EACH . \$5.97 91-048. Uses 3 T12-24* 20-watt lamps. Shpg. wt., 10 lbs. EACH, \$9.39. LOTS OF 3, EACH. \$8.67

HIGH POWER-FACTOR

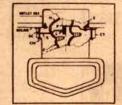
Fully power-factor corrected to meet all power company re-quirements. Minimizes annoying stroboscopic effects. Uses type T12 20-watt 24° lamps.

91-045. Uses 2 T12-24" 20-watt lamps. Shpg. wt., 10 lbs. EACH, \$9.39. LOTS OF 3, EACH. \$8.67 91-046. Uses 3 T12-24* 20-watt lamps. Shpg. wt., 11 lbs EACH, \$12.31. LOTS OF 3, EACH. \$11.37

COMPCO PERMANENT INSTALLATION FIXTURES

STANDARD UNITS

Identical in every respect to the Compco Standard Fixtures listed above, except mount in any regulation ceiling outlet box. Canopy, stub wires, and all necessary mounting bardware are supplied. Fixtures are completely wired with Underwriters' Approved components, and ready for installation. Finished in lustrous white enamel with chrome trim. Ideal for all permanent or semi-permanent installations wherever high quality and moderate cost are of prime consideration. Save their cost in a very short time. For 105-125 volt 60 cycle AC operation. Supplied less lamps.



"PLASTACELE" UNITS

Deluxe ceiling mount fixtures for permanent or semi-permanent installations, especially where best quality at moderate cost is desired. Easily installed. Come completely wired with Underwriters' approved components. Canopy, stubwires, and all necessary mounting hardware are supplied for mounting fixture in any standard ceiling outlet box. Exactly the same in all other respects as Compco "Plastacele" Fixtures described above. Finished in lustrous white enamel with chrome trim. For 105-125 volt 60 cycle AC operation. Supplied less lamps. The last word in modern design.

NORMAL POWER-FACTOR

HIGH POWER-FACTOR

Fully power-factor corrected. Meet all power company requirements. No stroboscopic effect. Otherwise the same as normal power-factor units described at left. A plus value, Uses type T12 20-watt 24° lamps. 91-052. Uses two 20-watt lamps. Shpg. wt. 9 lbs. EACH. 57.44.

91-053. Uses three 20-watt lamps. Shpg. wt., 10 lbs. EACH, \$10.04. \$9.27 LOTS OF 3, EACH.

NORMAL POWER-FACTOR

A low cost truly deluxe fixture. The last word in smart design. The last word in smart design.

Has no power-factor correction.

Completely wired with all accessories for easy installation.

Uses T12 20-watt 24" lamps.

91-060. Uses two 20-watt lamps. Shpg. wt., 9 lbs.

EACH. \$6.46.

LOTS.OF 3, EACH. \$5.97

91-061. Uses three 20-watt lamps. Shpg. wt., 10 lbs. EACH, \$9.39. \$8.67

HIGH POWER-FACTOR

A deluxe fixture in every respect, including full power-factor correction to meet all power company requirements. Has no stroboscopic effects. Uses type T12 20-watt 24' lamps. 91-062. Uses two 20-watt lamps. Shpg. wt. 10 lbs. EACH. \$9.39.
LOTS OF 3, EACH. \$0.67
91-063. Uses three 20-watt lamps. Shpg. wt., 11 lbs. EACH. \$12.31.
LOTS OF 3, EACH. \$11.37



MITCHELL ALL-PURPOSE FIXTURES

An all-purpose fixture for both household and commercial use. Furnishes an abundance of cool glareless, evenly distributed light, Brings new splendor and new eye comfort to the kitchen, bathroom, bedroom, library, playroom and den—with equally satisfactory application for botel rooms, lobbies, hallways, shops, etc. Uses Underwriters' approved ballasts, starters and sockets. Has specially designed ceiling holder, and ceiling strap to fit standard outlet boxes. Du Pont "Plastacele" shield hides lamps completely from view, and can be tipped forward or backward for easy insertion of new lamps. Choice of two finishes; lustrous white or English bronze. For 105-125 volt 60 cycle AC operation. Furnished less lamps. Produces up to 3 times the light of incandescent fixtures of equal wattage. Blends with any type surroundings.

NORMAL POWER-FACTOR

Supplied completely wired and ready to hang. "Plastacele" shield is easily removable and can be washed in soap and water. Canopy has knock-out for switch of drop cord. Lustrous white enamel finish is chipproof. Uses 2 type T12 20-watt 24" lamps listed on page 203. Quickly and easily installed. 11 lbs.

91-070. In lustrous white enamel. -071. In English bronze finish EACH, \$7.12. LOTS OF 6, EACH \$6.57

HIGH POWER-FACTOR

Same as units listed at left except have high power-factor correction. Will meet all power company requirements. No stroboscopic effects. Lustrous white enamel finish is chipproof. Uses 2 type T12 20-watt 24 lamps. Completely wired. Less lamps. All parts Underwriters' Approved. Shipping weight, 12 lbs. 91-072. In lustrous white enamel.

91-072. In lustrous white enamel. 91-073. In English bronze finish. EACH, \$9.39. LOTS OF 6, EACH \$8.67



MITCHELL KITCHEN UNITS

Enjoy the thrill of modern illumination in kitchen, bathroom, shop, etc., with this smart-looking up-to-date Mitchell fixture. Can be installed in your present fixture holder as easily as replacing an incandescent bulb and shade. Supplied with adapters to fit all standard 4" and 6" ceiling holders. Attractively finished in durable high-gloss white enamel. Underwriters' Approved ballasts and replacable FS-2 starters. Uses two T12 24" 20-watt lamps. Light of high intensity. For 105-125 volts, 60 cycle AC. Supplied less lamps.

91-080. Normal power-fac-tor unit. Complete with all nec-essary fittings, ready to install. Supplied less lamps. Shipping weight, 6 lbs.

EACH. \$5.17. LOTS OF 6, EACH. \$4.77

91-081. High power-factor corrected unit. Meets all power company requirements. No stro-boscopic effect. Less lamps. Shipping weight, 7 lbs.

EACH, \$7.44. LOTS OF 6, EACH ... \$6.87

PERMANENT INSTALLATION UNITS

91-085. Same as normal power-factor units described above, except supplied with canopy, stub-wires, and all necessary hardware for mounting in standard nutlet box. Less lamps. Shpg. weight, 6 lbs. EACH, \$5.17.
LOTS OF 6, EACH. \$4.77

91-086. Same as high power-91-086. Same as high power-factor corrected units described above, except supplied with canopy, stub-wires, and hardware for mounting in standard outlet box. No stroboscopic effect. Less lamps. Shpg. wt., 7 lbs. EACH, \$7.44.
LOTS OF 6, EACH... \$6.87

FAMOUS MASTERPIECE RECORDS A WIDE CHOICE OF MUSICAL CLASSICS AT AN AMAZINGLY LOW PRICE

The world's finest and best-loved music-recorded by famous artists and concert groups-at prices everyone can afford! Included in this treasurehouse of famous musical selections are matched album sets and popular collections that belong in every music-lover's library!

61 RECORDS . . . OVER 120 SELECTIONS. Musicraft Masterpiece 10" records are recorded on both sides! All are freshly made from recently recorded masters-no repressings or re-recordings. The exceptionally low prices are possible only because of large volume and elimination of huge royalty payments. Recording artists, although not mentioned by name, are top-ranking musicians. Here is choicest music, at prices unbelievably low! Order in quantities for extra savings! Shpg. wt., each record, 3/4 lb.

AS LOW AS EACH. IN 25 LOTS 1-10, EACH 290



MASTERPIECE ALBUMS

Best-loved classics complete with albums.

8-901. UNFINISHED SYMPHONY No. 8. (Schubert). Symph. orch. 3—12"s 1.69 double-faced records. Album A-1. NET double-faced records. Album A-1. NET 1.09
8-902. SYMPHONY No. 40 in G-Minor (Mozart). 3-12" double-faced records. Album A-2. Wt., 3½ ibs. NET 1.69
8-903. ALBUM OF STRAUSS WALTZES.
5-10" records. (8-529, 8-505, 8-522.\$1.59
8-530, 8-531, at left). Album A-3. NET 8-904. TREASURY OF INSTRUMENTAL MUSIC. 4-10" records (8-501. 8-504. 8-509. 8-513 at left). Album A-4. Wt., 3 lbs.\$1.31
NET 8-552, 8-553 at left), 3 lbs. NET

8-914. MENDELSSOHN VIOLIN CONCERTO. 4—12° records. Violinist and Symphony Orchestra. With Mozart's Overture to The Marriage of Figaro on eighth side. \$2.19

8-915. NEW WORLD SYMPHONY (Dvorak). 5—12° records. Symphony \$2.69

Orchestra. Album A-15. Wt., 5 lbs. NET

10% additional discount in Lots of 3.



MASTERPIECE COLLECTIONS

Newly recorded 10° double-faced records in color-ful envelopes. Average shpg. wt., 2 lbs.

8-907. CHILDREN'S STORIES No. 2. "Little Red Riding Hood," "Sleeping Beauty." Milton Cross. 2—10". Set A-7. 57c

8-908. A TREASURY OF SONG. Includes: Hark, Hark the Lark, Ave Maria, Vesti La Gisbba, La Donna E Mobile, I Love You, Lullaby (8-850, 8-510, at left). Set A-8. NET.... 85c.

8-911. WILLIAM TELL OVERTURE (Rossini). Symphony orchestra. 2—10° records. 57c

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No.	TITLE	No.	TITLE
	Serenade (Schubert).	2073	Barcarolle from Tales of Hoff-
	Hungarian Dance No. 5	3 79	man (Offenbach).
	(Brahms). Violin and Piano		Spanish Dance (de Falla).
8-502.	(Brahms). Violin and Piano Hark, Hark The Lark. Ave Maria (Goungd).		Symphony Orchestra Love's Old Sweet Song.
	Sonrano and String Ensemble	8-539.	Annie Laurie.
8-503.	Soprano and String Ensemble Di Provenca II Mar from La		Soprano and Piano -
	Traviata.	8-540.	Minute Waltz: Mazurka in B
	Dormiro Sol Nel Manto from		Flat.
	Don Carlos (Verdi). Baritone and String Ensemble		Polonaise Militaire (Chopin).
8-504.	Serenade from Quartet Op. 3	8-541.	Souvenir (Drdia).
	No. 5 (Haydn).		Spring Song (Mendelssohn). Violin and Piano
	Andante Cantabile from		Violin and Piano
	Quartet Op. 11 (Tschaikow- sky). String Quartet. Blue Danube Waltz (Strauss).	8-542.	Marche Militaire (Schubert). Scarf Dance (Chaminade).
8-505.	Blue Danube Waltz (Strauss).		Symphony Orchestra
	Tales From Vienna Woods (Strauss). Concert Orchestra	8-543.	My Heart at Thy Sweet Voice.
	Vesti La Giubba from Pagliacci		Una Voce Poco Fa. Soprano and
8-300.	(Leoncavallo).	8-544.	Orchestra Habanera from Carmen.
	La Donna E Mobile from Rigo- letto (Verdi).	G-344.	Vedrai, Carino from Don
	letto (Verdi).		Giovanni, Soprano and Orch. Celeste Aida from Aida.
9 507	Tenor and Orchestra Solveig's Song from Peer Gynt	8-545.	Celeste Aida from Aida.
8-307.	Suite (Grieg).		M'Appari from Martha.
	Suite (Grieg). The Prophet Bird (Schumann).	8-546.	Tenor and Orchestra Di Quella Pira from Il Trova-
1	Violin and Flano		tore (Verdi).
8-508.	Macushia L'Amour Toujours L'Amour.		tore (Verdi). Salut Demeure from Faust.
	Tenor and Orchestra	8-547.	Tenor and Orchestra
8-509.	Moonlight Sonata (Beethoven). Hymn To The Sun (Rimsky- Korsakov). String Ensemble	8-547.	Für Elise (Beethoven). Fledermaus (Strauss). Piano
	Hymn To The Sun (Rimsky-	8-548.	Coronation March (Meyer-
9.510	I Love You (Grieg).		beer).
8-310.	Lullaby (Brahms).		March of the Smugglers from
	Soprano and Orchestra Prelude in G Minor (Rach-	8-549.	Carmen, Symphony Orch. Traumerei (Schumann).
8-511.	Prelude in G Minor (Rach-	0.0.0.	Meditation from Thais.
	maninoff). Poeme (Fibich), Salon Orchestra	Parameter 1	Violin and Piano
8-512.		8-550.	Gems from The Mikade
	Minstrels (Debussy), Piano		(Gilbert and Sullivan).
8-513.	Air on the G String (Bach).	8-551.	Light Opera Co. & Orch. Gems from Iolanthe (Gilbert
	Violin and Piano		and Sullivan).
8-514.	La Paloma.	8-552.	Light Opera Co. & Orch. Gems from The Pirates of
	Intermezzo from Cavaleria Rusticana. String Ensemble	8-352.	Penzance (Gilbert and Sul-
	Rusticana. String Ensemble		livan), Light Opera Co. Orch.
8-515.	Ay Ay Ay. O Sole Mio, Tenor and Orch. None But the Lonely Heart	8-553.	
8-516.	None But the Lonely Heart	8-554.	Light Opera Co. & Orch.
		8-554.	Les Filles de Cadiz. Queen of the Night Aria.
	Hungarian Dance No. 6		Soprano and Orchestra
8-520.	Sono of India (Rimsky-	8-555.	Soprano and Orchestra On Wings of Song (Mendels-
THE STATE OF	Hungarian Dance No. 6 (Brahms). Salon Orchestra Song of India (Rimsky- Korsakov). Salon Orchestra Loin Du Bai (Gillet).		sohn
	Loin Du Bai (Gillet),		Spanish Dance Op. 22, No. 3 (Sarasate). Violin and Piano O Paradiso from L'Africana
8-521.	I Love Life. Morning. Tenor and Piano	8-556.	O Paradiso from L'Africana
8-522.	Wine, Women and Song.		(Meyerbeer).
	Vienna Bonbons (Strauss).	N. A. C.	Cielo e Mar from La Gioconda
	Concert Orchestra My Old Kentucky Home.		(Ponchielli).
8-523.	Jeannie With the Light Brown	8-557.	Tenor and Orchestra Scenes of Childhood (Schu- mann). Parts 1, 2, 5, 6, 12.
	Hair, Male Chorns		mann). Parts 1, 2, 5, 6, 12.
8-524.	The Lord's Prayer (Malotte).		Fiano
	The Lord's Prayer (Malotte). The Rosary (Nevin). Tenor and Organ	8-558.	Waltzes from Old Vienna. Evening Star Waltz. Concert
8-525.	The Gingerbread Boy (Chil-		Orch.
	dren's Stories Mileon Cross)	8-559.	Skater's Waltz.
8-526.	Cinderella (Children's Stories by		Valse d'Amour, Concert Orch.
0.537	Cinderella (Children's Stories by Milton Cross) Little Red Riding Hood (Chil-	8-560.	Les Sirenes Waltz, Part 1. Les Sirenes Waltz, Part 2.
8-527.	dren's stories; Milton Cross).	A STATE OF THE STA	Concert Orchestra
8-528.	The Sleeping Beauty (Children's	8-561.	Una Furtiva Lagrima.
THE STATE OF THE S	stories; Milton Cross). Emperor's Waltz.		Romance (Pearl Fishers).
8-529.	Sweetheart Waltz (Strauss).	and the same	Tenor and Orchestra
	Concert Orchestra	8-562.	Swan Lake Ballet:

Concert Orchestra
8-530. Vienna Blood.
Artist's Life (Strauss).
Concert Orchestra
8-531. Voices of Spring.
Southern Roses (Strauss).
Concert Orch.
Research

Concert Orch.

8-532. Heav'n Heav'n.
Sometimes I Feel Like a Motherless Child.
Sung by Marian Anderson

8-535. Belero (Ravel).
Symphony Orchestra

8-536. Trees. Tenor and Organ
Oh Promise Me.

8-537. God Bless America. The Star Spangled Banner. Baritone and Orchestra

8-539.	Symphony Orchestra Love's Old Sweet Song.
	Annie Laurie.
	Soprano and Piano -
8-540.	Minute Waltz; Mazurka in B
	Flat. Polonaise Militaire (Chopin).
	Piano
8-541.	Souvenir (Drdia).
	Spring Song (Mendelssohn)
and the second	Violin and Piano
8-542.	Marche Militaire (Schubert).
	Scart Dance (Chaminade).
8-543.	Scarf Dance (Chaminade). Symphony Orchestra My Heart at Thy Sweet Voice.
	Una Voce Poco Fa. Soprano and
	Orchestra
8-544.	Habanera from Carmen.
	Vedrai, Carino from Don
8-545.	Giovanni. Soprano and Orch.
a-3-5.	Celeste Aida from Aida. M'Appari from Martha.
	Tenor and Orchestra
8-546.	Di Quella Pira from Il Trova-
	tore (Verdi).
	Salut Demeure from Faust.
8-547.	Tenor and Orchestra Für Elise (Beethoven),
0-341.	Fledermans (Strauss). Piano
8-548.	Fledermaus (Strauss). Piano Coronation March (Meyer-
The same of the sa	beer).
	March of the Smugglers from
0	Carmen. Symphony Orch. Traumerei (Schumann).
8-549.	Meditation from Their
	Meditation from Thais. Violin and Piano
8-550.	Gems from The Mikado
1 HE SEE	Light Opera Co. & Orch. Gems from lolanthe (Gilbert and Sullivan). Light Opera Co. & Orch. Gems from The Pirates of Penyange (Gilbert and Sul-
8-551.	Gems from lolanthe (Gilbert
	and Sullivan).
8-552.	Gems from The Pirates of
0.332.	Penzance (Gilbert and Sul-
	Penzance (Gilbert and Sul- livan). Light Opera Co. Orch.
8-553.	Gems from H.M.S. Pinatore,
2022	Light Opera Co. & Orch.
8-554.	Les Filles de Cadiz. Queen of the Night Aria.
	Sorrano and Orchastra
8-555.	Soprano and Orchestra On Wings of Song (Mendels-
THE RESERVE	sohn).
	Spanish Dance Op. 22, No. 3
	O Paradiso from L'Africana
8-556.	O Paradiso from L'Africana (Meyerbeer).
	Cielo e Mar from La Gioconda
	(Ponchielli).
	Tenor and Orchestra
- Carrier Commen	A PROPERTY OF CALCULATION
8-557.	(Ponchielli). Tenor and Orchestra Scenes of Childhood (Schu-
8-557.	mann), Parts 1, Z, 5, 0, 12.
	Piano Parts 1, Z, 5, 6, 12.
8-557. 8-558.	Piano Parts 1, Z, 5, 6, 12.
	Waltzes from Old Vienna. Evening Star Waltz. Concert Orch.
	mann). Parts 1, 2, 5, 0, 12. Piano Waltzes from Old Vienna. Evening Star Waltz. Concert Orch. Skater's Waltz.
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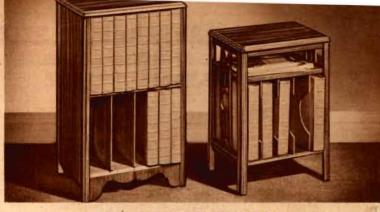
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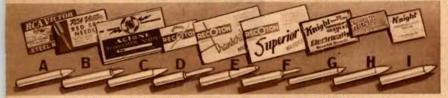
Fig. C. Knight genuine sapphire needles are kind to your cherished records and priced exceptionally low. They are precision-cut to provide the lowest possible surface noise. Will play over 2000 times without noticeable wear. Provide glorious, full-voiced tone quality. Ideal replacement for use in lightweight high-fidelity pickups. 2 oz. 65-816. NET. 590



Fig. A. Pfanstiehl. Precious Osmium metal-alloy needle point offers over 4000 plays. Ideal for automatic coinoperated machines. Accurately shaped and polished point assures true-tone reproduction and long life, 2 oz. 65-910. EACH, 85c. LOTS OF 10. EACH. 76c

Fig. B. Permo Fidelitone. Unique "Floating-point" needle action. Filters record scratch; gives three to six months normal service. Produces truetone quality. Wt., 2 oz. tone quality. Wt., 2 oz. 65-915. Postpald, EACH... 500 Fig. C. Eldeen Classic. A superior-quality precious-metal-tipped needle designed for multiple-play phono-graphs. Will provide splendid enter-tainment for over 2000 plays. Mini-mizes record wear and noise. 2 oz. 65-918. EACH. 35c. LOTS OF 10, EACH. 200

Fig. D. Knight. Preferred-quality precious Osmium-tip metal-alloy needle at a remarkably low price. Plays over 2000 records, or 4000 sides. Minimizes record wear. 2 oz. 65-920. EACH, 44c. 390



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Fig. A. Steel Needles. 65-881. Soft Tone. 65-882. Half Tone. 65-883. Loud Tone. 65-884. Full Tone. 10 Pkg. of 100. 4 oz. NET. 10c 10 Pkgs. 8 oz. NET. 75c

Fig. B. RCA RED SEAL Designed for playing Red Seal records. Pkg. of S0.

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Fig. C. Actone. Shadow-graphed steel professional transcription needles. Mini-Perfectly formed and highly polished points. One of the mest steel needles made. 100 per pkg. 6 oz. 380 10 Pkgs., \$3.42

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Fig. D. Automatic. Handturned, properly polished steel needles. Plays 12 or 15 records with low surface noise. 8 oz. -65-930. Pkg. of 30. 230 65-931. Tin of 200. \$1.22

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Fig. E. Transcription.
Shadowgraphed steel needles meet all professional requirements. Suppresses surface noise. Assures perfect tonal reproduction. 2 oz.
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KNIGHT

Fig. G. Steel. High-grade needles. Finely ground points, For commercial records, 4 oz. 65-940. Soft. 65-941. Medium. 65-942. Loud. 65-943. Extra Loud. Pkg. of 100. NET. 60. 10 Pkgs. For 54c.

Fig. H. Deluxe Steel. Brass-plated. Produce clear, true tone. Plays 10 records, 3 oz. 65-944. Medium. 65-945. Loud. 65-946. Extra Loud. Pkg. of,50. NET. 00 10 Pkgs. For 72c

Fig. 1. Chrome Plated. Shadowgraphed. Plays 25 or more records without wear. Shpg wt., 2 oz. 176 Shpg. wt., 2 oz. 65-947. Pkg. of 6. 170 10 Pkgs. For. 51.53



THORN PHONO NEEDLES

Fig. A. Kactl. Famous Peter Grey long-playing Kacti needles. Assure glorious tone quality. Will not scratch, A favorite of music lovers. 4 oz. 290 65-832. Pkg. of 12.

JUKE BOX NEEDLES

Fig. B. Gerrett Miracle Point. Round point; 2000 plays. 65-835. EACH, 25c. LOTS OF 10, EACH. 23C 23 c

Fig. C. Knight rigid shank type. 4000 plays. 2 oz. 390

POPULAR LOOSE-LEAF RECORD ALBUMS

ECONOMY

Keeps your records safe and orderly, Has 12 record pock-cts reinforced with metal eyelets. Pockets may be re-moved or replaced in a jiffy. moved or replaced in a jiffy.
Durable fabrikoid cover finished in rich wine-color. Album is flat-opening type.
Ring-binder built to stand
up under constant use.
Shipping wt., 3 lbs.

96-850. For 10" records. NET..... records. NET 10" 440 96-851. For 12" 540 records. NET 540

A strikingly beautiful album finished in matching cork-grain material. Stiff back covered with smart brown swirl cloth. Attractive gold-stamped design on back. A looseleaf album holding 12 records in heavy kraft envelopes, reinforced with metal eyelets. Shpg. wt., 3 lbs.

96-852. For 10° 650 records. NET 790 records. NET 790

DELUXE 2-TONE

Rich aristocratic twotone loose-leaf album
bound in natural rawlide-grained leatherette.
Contrasting brown Levant-grain ends have
handsome gold-stamped
design. Contains 12 heavy
craft envelopes in easyturning three-ring binder. Shpg. wt., 3 lbs.

96-860. For 10" 790

96-861. For 12" AF

96-861. For 12" 950 records. NET 950

PADDED COVER

Deluxe type. Full cloth-boung in rich brown swirl material wth heavy padmaterial wth heavy pad-ded covers and a metal reinforced, gold-stamped, rounded back. A deluxe album, 12 heavy envel-opes with reinforced metal eyelets on smooth-acting loose-leaf three-ring binder. Wt., 4 lbs.

96-865. For 10" 90C 96-866. For 12" records. NET \$1.10

TWO-TONE LOOSE-LEAF ALBUM VALUE

New 12-pocket album with easyoperating Joose-leaf three-ring
binder. Opens flat. Permits you
to remove record envelopes at
will. Has metal tear-proof protectors around pocket holes.
Heavy fabrikoid binder is beautifully finished in gold-stamped
dark brown back and handsome
tweed-effect finish on front and
back covers. Very durable.

96-867. For 10-inch Records. NET.....



POPULAR RECORD HOLDERS ECONOMY MODEL

An exceptionally low-priced Record Rack that accom-modates fifty 10- or 12-inch records. Durably construc-ted, neatly finished wood base. Cotton-covered wires will not harm records. Helps you to keen your records. will not harm records. Helps you to keep your records; filed in an orderly manner and protects them from injury. Has handy index numbers for arranging records systematically. At our very low price you can easily afford this indispensable record filing-aid. No record-collector should be without one. 12"x71½"x6½". Shpg. wt., 31bs. 796-820. NET. 796 96-820. NET 790

LYRIC DELUXE

Excellent light-weight holder for filing fifty 10° or 12° records. Heavy soft red-felt coating on wires and base prevents scratching or breaking records. Smart copper-plated end pieces act as convenient handles. Records are filed in numbered pressed-steel base by handy index disc and stickers. Size: 12° I. x 7½° H x 9° W. Wt. 5 lbs. \$2.45

LYRIC STANDARD

Same as above, but with copper-finished end pieces. 96-826. NET. \$1.65

MUSICRAFT BOUND ALBUMS

DELUXE

Rich library binding.
Solid round wood back.
Bound in luxurious
crushed levant with
genuine buckram sides.
Back die-stamped in
gold. Flat opening with
12 pockets. 12 permament rings for maximum
strength. In two-tone
blue or brown. 4 lbs.

For 10-inch Records. 96-875. Blue. 96-876. Brown EACH. 850

For 12-inch Records. 96-877. Blue. 96-878. Brown. EACH... 990

STANDARD

Newly designed beautiful levant type binding. Back is die-stamped in gold. Flat back construction. Holds 12 records. Maxi-mum strength has been attained through the use of 12 permanent rings. of 12 permanent rings. Album lies flat when open for ease in removing or inserting records. 3 lbs.

For 10-inch Records. 96-880. Blue. 96-881. Brown. 470

For 12-inch Records. 96-882. Blue. 96-883. Brown. 590

OUR VALUE LEADER

Handsome sturdily bound brown diligator-finished albums at an astoundingly low price. Durable construction withstands hard usage. Each album is equipped with 10 individual pockets of heavy-weight manila paper. Contains index for record title and name of artist. Shpg. wt., 2½ lbs. each.

96-830. EACH 3	4c
In Lots of 12.	0c
For 12-Inch Records. 4	5c

In Lots of 12. 40c

SHARPENS KACTI NEEDLES



PETER GREY SHARPENER

A genuine Peter Grey needle sharpener. For use on all non-metallic needles such as cactus, thorn, bamboo, or kacti. Sharpens thorn needles to perfectly rounded point and maintains shape. Works by hand. Saves you money because you can sharpen needles and use them over and over again. Top cover of box serves as a record brush for cleaning dust, etc., from records. I lb.

51.32
69-945. NET

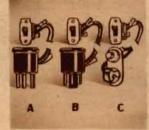
69-946. Replacement
Genet

Discs for above sharpener. EACH, 10c. 10 FOR

RECORD REPEATER



Repeats 10" records automatically. Made of durable celluloid to give long service. Will not injure rec-ords or needles. For use on any phono-graph. Wt. 2 lbs 856 69-930...



PHONO ADAPTERS

Connects phono pickup to radio without wiring-change. 61-650. Fig. A. For sets using 5 prong tube (no grid cap) as det. or first audio. 61-651. Fig. B. For type 6H6 as second detector.

61-652. Fig. B. For types 6C5, 6J5, etc., as first audio. 61-653. Fig. C. For sets using grid-cap type tube, such as 6J5, 6R7, 6F5. 79C 79c

RECORD PLAYER SWITCH



Replacement for RCA switch 9824A. Provides change-over from radio to record player. Quickly and easily installed. 1 lb. 59-230. NET



RECORD ACCESSORIES

Fig. A. Record Cleaning Cloth.
Specially treated felt cloth removes
dust, etc., from grooves of phonograph
records; extends record life.
69-905. 4" x 4". NET 126
69-906. 6" x 6". NET 18c

Fig. B. Record Cleaner. Cleans, renews and provides plastic film to aid in reducing surface noise. 2 oz. 210

Fig. D. Turntable Needle Sharpener.
For al non-metallic needles; provides perfect points. 8° abrasive disc and needle holder. 1 lb. 69-940. NET \$1.15 69-941. Replacement Discs for 390 above sharpener. NET

Fig. C. Kit of 10 Stylus Set Screws. Assorted, round-head; for popular phono pickup arms, recording heads. 3 oz. 796 69-935. NET

Fig. E. Rubber Replacement Drives. For rim-drive turntables, 8 oz. 69-936. For G.I. RX-LX. 69-937. For Alliance 80. EACH 150



PORTABLE RECORD CASES

Permits you to carry phonograph records conveniently and safely. Sturdily made; has handsome airplane luggage material covering and hinged top lid. With strong chrome clasp. Felt lined to assure extra protection. Holds 25—12* records. An attractive and handy case which will easily solve your problem of safely transporting records. Wt., 8 lbs. \$1.29

96-891. Same as above, but holds 25-10* records. A well-built case at a very low price. Shpg. wt., 7 lbs.

96-892. Same as above but holds 50-12" records. Heavily felt-lined for extra protection Wt., 101bs.

96-893. Felt-lined case as above, but holds 50—10" records. Wt., 9 lbs. \$2.15



GREAT VALUES IN KNIGHT RECORD PLAYERS

AUTOMATIC CHANGER PLAYERS

Convert your present radio set into a luxurious Radio-Phonograph combination instrument with this deluxe **Knight** Automatic Record Changer. Available as a Wireless Player (no connection to set necessary) or with conven-tional connection to set or amplifier.

WIRELESS PLAYER

Works like a miniature transmitter. Tune in on your radio receiver like any radio program. Incorporates a precision Seeburg Automatic Record Changer, Will play ten 12° or lourteen 10° records automatically at a single loading. Has heavy-duty self-starting 78 RPM motor. Single control acts as on-off switch and record reject. Last record in stack repeats. New lightweight crystal pickup is mounted on counterbalanced tangent arm. Needle pressure, only 1 oz. Beautiful table-type cabinet with highly polished finish. Cabinet measures 16½°D. x 13½°H. x 15½°W. Has sinooth-acting hinged lid which closes over all records. For operation on 110-120 volts, 60 cycles AC. Wt. 45 lbs. 96-260. \$28.50

WIRED PLAYER

Has all of the features of the Wireless Player described above but does not have built-in oscillator. Requires direct connection to receiver or amplifier through phono jack or by means of phono adapter. Quickly and easily connected. Size: 1634 D. x 1334 H. x 154 W. For I10 volts, 60 cycles AC. Shpg. wt., 47 lbs. 96-261. \$22.75

PORTABLE PLAYERS

These unusually well-built **Knight** portable record players will bring you hours of enjoyable recorded entertainment at exceptionally low cost. Handy, compact, portable case style in either wired (direct connection) or wireless type (no connection to radio).

WIRELESS PLAYER

The miracle player that requires no direct connection to radio. Plays records through the amplifying system of your radio set with all the tone quality of any radio program. Operates from any distance up to 50 feet away. Sturdy, self-starting 78 RPM motor of latest design with 9' turntable. High-quality light-weight crystal pickup with arm rest. Needle pressure, only 1 oz. for longer record life. Built-in wireless two-tube oscillator. Case is 15' wide, 12' deep, 6¼' high. Plays all 10' and 12' records with lid closed to reduce surface noise. Case is leatherette-covered with convenient carrying handle. Has needle cup. For 110 volts, 60 cycles AC. Shpg. wt., 12 lbs.

96-265.

\$13.75

WIRED PLAYER

Connects directly to radio set or amplifier through phono jacks or adapter. Has all features of wireless model above, less only the oscillator. Crystal pickup has wide feeponse. Constant-speed motor runs without waver. A splendid value in a low-cost record player. For 110 volts, 60 cycles AC. Wt., 10 lbs. 96-250.

\$9.95

DELUXE PLAYERS

Convert your radio receiver into a modern radio-phono combination quickly and easily with one of these **Knight** deluxe record players. Will provide splendid phonograph record reproduction for hours of delightful entertainment from your musical library.

WIRELESS PLAYER

WIRELESS PLAYER

The "magic" record player that requires no direct connection to radio set. Works like a miniature transmitter. May be placed anywhere in room or at any distance up to 50 feet away from radio. Incorporates latest deluxe features such as: offset head, lightweight crystal pickup; 78 RPM self-starting motor with 9" turntable for all 10" or 12" records; two needle cups; push-button on-off switch; locking armrest for pickup. Has built-in two-tube oscillator. Housed in beautiful roll-top walnut cabinet with lid that closes to reduce surface noise. Cabinet closed: 12½"D.x15"W.x6½"H. Brings you ideal record-playing facilities. For 110 volts, 60 cycles AC. Shpg. wt., 15 lbs. 96-270. \$15.75

DELUXE WIRED PLAYER

Has all features of "wireless" type above, but without built-in oscillator. Can be used with any radio with all of the volume and tone quality of the set itself. Connects directly to any radio set through phono jack or by means of adapter. Easily connected in a jiffy. For 110 volts, 60 cycles AC. Shpg. wt., 13 lbs. 96-271. \$12.45



PHONOLA ACOUSTIC PORTABLE PLAYERS

SPRING-WOUND MODEL 22A

Economy Model. An acoustic phonograph designed to meet the demand for a low-priced machine—but capable of fine performance. Uses no electricity or batteries; just wind and play. Completely self-contained and ready to play all 10° or 12° records. An ideal unit for tourists, for students in dormitories, for club-roses, rumpus-rooms, picnics, and week-end trips. Equipped with an American-made spring-wound motor of governor type, reflecting tone chamber, tapered throw-back tone arm, and reproducer head of good quality. Has 9-inch velveteen covered turntable. Record holder in lid of case holds 12—10° records. Portable case is covered with waterproof brown two-tone stag-grain simulated leather, with harmonizing lining. Nickel-plated hardware. Sturdy carrying handle. Case size, 1334° x 11° x 578°. Ships, wt., 11 lbs. \$8.18

96-351. Electric Model 22E. Similar to above, but has constant speed electric motor for operation from 110-120 volts, 60 cycles AC. Wt., 10 lbs.

INDEX ON PAGES 198-199

SPRING-WOUND MODEL 88A

SPRING-WOUND MODEL 88A

Deluxe Model. Attractive acoustic portable phonograph incorporating special features for more efficient operation and better tone quality. Makes a handsome and practical gift. Has high-quality American-made, long-running, spring-wound motor of governor-type with lever-operated speed regulator. 9-inch plated rim, velvet-covered turntable accommodates all 10° and 12° records. Phonola deluxe reproducer of correct acoustical design has free-floating diaphragm and double-pivoted, balanced needle arm. Tone chamber is one-piece heat molded, producing a 24° tone column sealed in place; assures excellent tonal reproduction. Has flush-mounted needle cup, extra cup for used needles, and winding crank with harmonizing knob. In luxurious waterproof, simulated-leather case with Herward Tweed finish of medium tan and harmonizing stripes. Size: 16½° x 7½° x 13°. With carrying handle and record holder. Shpg. wt., 15 lbs. \$12.50

96-353. Electric Model 88E. Similar to above, but has self-starting synchronous electric motor for operation from 110-120 volts, 60 cycles AC. Shpg. wt. 13 lbs.



KNIGHT ECONOMY PLAYER

Efficient, low-cost record players for use with any radio. Play all 10 and 12-inch records through the radio amplifying system. Latest desirable features include: lightweight offsethead crystal pickup, self-starting 78 RPM motor with 9-inch turntable; two needle cups; on-off switch; pickup arm rest.

WIRELESS MODEL

The wireless model of the Knight Economy Player requires no connection to radio set. May be used anywhere up to distance of 50 feet from radio; just plug in to electric outlet, place record on turntable, and tune radio set to player frequency. Presented in a good-looking open-face cabinet — 12½°D.x15°W.x4½°H. handsome walnut finish. For 110 volts, 60 cycles AC. Shpg. wt., 13 lbs. \$11.44

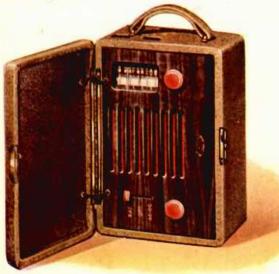
WIRED MODEL

SENSATIONAL NEW 3-WAY PORTABLES



PLAY FROM
BATTERIES
OR FROM AC-DC





PERSONAL MODEL IN LEATHER

The **Knight** 3-Way Personal Portable is also available in a deluxe Custom-made case of genuine top-grain cowhide leather in a rich brown finish. Has all of the fine features of the plastic-molded model described at right. It's the last word in a quality Miniature Portable that plays from AC or DC current, or from self-contained batteries. You'll be proud to own this deluxe Personal Radio—the most distinctive model in its field this year! Complete with tubes and batteries. Shpg. wt., 6½ lbs.



3-WAY "TREASURE CHEST" MODEL

Distinctive! Different! Here's an exquisite presentation of the Knight Personal Portable in a lovely wood chest model that looks just like a jewel-box. It's perfect for use on office desk, on end-table, on book-shelf, or bed-side table, etc. Works from AC, DC or batteries—has all of the fine features described at right. Measures only 8.½ x5.½ x4 . Weighs only 5 lbs. Entirely self-contained in a solid walnut case with charming marquetry inlay trim; beautifully handrubbed to a rich, lustrous finish. Here's one of the most unique little radies you've ever seen—tiny in size but a real performer! Complete with tubes and batteries. Shpg. wt. 6½ lbs.



Knight 3-WAY PERSONAL PORTABLE GORGEOUS NEW PLASTIC MODEL

Here's the Personal Portable for all America—at home or at play—at a new low price all America can afford! What a radio this is—works not only from self-contained batteries, but from AC or DC current as well! It's no bigger than the palm of your hand, yet it's the most remarkable and versatile radio ever built! Here's why:

Plays Anywhere! Carry the Knight 5 Tube (with rectifier) 3-Way Personal Portable with you wherever you go. If there's an electric outlet handy (110 volts, 50-60 cycles AC or 110 volts DC) just plug in. If you're in the country, at camp, on the beach, or on a trip, play it from the economical self-contained batteries. Either way, you get powerful, efficient operation you'll enjoy!

Everything Built-in! Everything you need for operation on AC, DC or batteries is right inside that beautiful little case. No aerial, no ground, no wires to attach. The built-in loop aerial has astonishing sensitivity. Batteries are self-contained, too, And it's a simple thing to switch from batteries to electric operation; just set the control pointer at AC-DC-position, plug in the power cord—and play. You'll marvel at the versatility of the Knight Personal Portable.

Strong Reception. The Knight 3-Way Personal Portable tunes 535 to 1650 KC for remarkably powerful reception of all regular Broadcast programs. You'll like the easy-tuning Slide-Rule Dial, (just as in regular big radios) the handy-sized controls and the practical, visual "Off-AC-DC-Battery" indicator.

An Engineering Miracle—that's the only way to describe the amazing Superhet circuit of this remarkable 3-Way Personal Portable. RCA Licensed—with every latest feature. Uses the latest miniature 1-4 volt tubes (1R5, 1T4, 155, 354 and 4523 Rectifier). Has Automatic Volume Control to maintain uniform volume on all programs. The tone quality is pure and rich. A specially developed Dynamic Speaker handles full volume with pleasing fidelity.

Exceptional Economy. You'll like the practical economy of the 3-Way Personal Portable especially when you're operating from the self-contained batteries. Uses 3 ordinary flashlight cells for "A" supply—last about 20 to 25 hours—inexpensive to replace. The compact "B" battery gives about 50 hours of service.

Blue-Ribbon Winner for looks—that's the new Knight 3-Way Personal in its gem-like plastic-molded case! It's a beauty you'll be proud to be seen with. Molded in shiny black plastic in the smoothest-looking lines you've ever seen, with contrasting plastic-molded door in beautiful slate-grey. Has attractive carrying handle. You'll be proud of this set wherever you play it—whether at home or outdoors on the go. Size is only 81/8"x51/4"x4". Weighs only 5 lbs.

A Wonderful Gift to yourself—or to others. The Knight 3-Way Personal Portable is offered in molded plastic case as illustrated, complete with tubes and batteries. For 110-120 volts, 50-60 cycles AC or DC or for battery use. Shpg. wt., 6½ lbs.





Enjoy the marvelous convenience and luxury of this new Automatic Record Changer that brings you forty minutes of uninterrupted entertainment without requiring the touch of human hands. Let this Changer work for you—swiftly, quietly, automatically.



THREE BAND RADIO

You get the latest and best features for dependable three-band reception: Spread-Band tuning—with dial scale s-p-r-e-a-d out on both Short-Wave ranges. New noise-reducing RF circuit for better reception. Enjoy all the world's fascinating radio entertainment!

FEATURES:

- · Powerful Superhet
- Built-in Aerial
- . New RF Circuit
- Spread-Band Tuning
- With Tone Control
- . Full-Acting AVC

Knight 6 TUBE AUTOMATIC PHONO-RADIO

This is the kind of Phonograph-Radio you've longed to own—a wonderful new instrument for Complete Home Entertainment! Here, in one of the greatest value-offerings in our history, we bring you powerful 3-Band Radio Reception and superb Automatic Record Reproduction—with a rare perfection of tone, with important new features, and with an outstanding achievement in beautiful cabinet design . . .!

3 Band Radio Range. The powerful Superhet circuit of the Knight 6 (including rectifier) tunes three full bands for world-wide coverage: 5.25-10.25 and 11.5-16MC cover Foreign and domestic Short Wave programs, amateur, aviation and police signals. New S-p-r-e-a-d Band feature gives foreign bands a wider tuning range for easy, instant station logging. Tunes 540-1650 KC for powerful American and Canadian standard Broadcast reception.

Every 1942 Radio Feature. There's no more aerial or ground to worry about in the Knight 6, because it has the latest-type built-in loop aerial that permits you to plug in and play anywhere. You'll find the latest type tubes used in the new RCA and Hazeltine licensed Superhet circuit as follows: 6SK7 as RF; 6SA7 as Mod.-Osc. (dual-purpose); 6SK7 as IF; 6SQ7 as Det-1st Audio (dual-purpose); 25L6 Output; 25Z6 Rect. New noise-reducing RF circuit means better sensitivity—less background noise. Automatic Volume Control is incorporated to maintain uniform volume on every program you tune.

Brilliant Automatic Record Changer. Put yourself in this glorious entertainment picture: imagine forty blissful minutes of continuous listening to your favorite recorded music, without once getting up from your easy chair! This thrill can be yours with the Knight 6 Automatic Changer that plays up to twelve 10-inch or ten 12-inch records at a single loading. It's the latest and finest gentle-action type, equipped with the new feather-weight, low-pressure Crystal pickup that comes complete with lifetime needle.

Glorious Tonal Reproduction. The Knight 6 is yours to command! At the mere touch of your finger, you can have Radio or Phonograph. Whichever you choose, there is always the assurance of thrilling fidelity, with each tone faithfully mirrored in the performance of the 5½-inch Dynamic Speaker. You'll appreciate, too, the rich effect of the Personal Tone Control that you yourself can vary to give the kind of tone emphasis you like.

Beautiful New Cabinet. You've never before seen such table-model cabinet beauty. Notice the rich style details of the grille treatment, the good taste with which walnut wood contrasts are achieved. The cabinet is designed to play both 10 and 12-inch records with lid closed. Size: 19½ wide, 14½ deep, 13½ high.

Knight 6 Phono-Radio Complete. The Knight 6 is offered complete as illustrated above, with 6 Tube 3 Band Radio, Automatic Record Changer and tubes. For 110-120 volts, 60 cycles AC. Shpg. wt., 40 lbs.

D-175. Value, \$74.50.
NET PRICE EACH, \$39.95.
NET PRICE, LOTS OF 3, EACH......