



Allied Radio
CORPORATION

833 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS

1940

Complete
Index
On Pages
191-192

THE
ATLANTIC
CLIPPER

EVERYTHING IN RADIO

HERE'S RADIO'S BIGGEST VALUE!

NO AERIAL · NO GROUND with the

Air-Magnet



R. C. A. &
HAZELTINE
LICENSED

Knight 5 TUBE AC-DC SUPERHET



• **Built-in "Air-Magnet".** No aerial—no ground required. No bother, no fuss with outside wires. Just plug in like any electrical appliance, and enjoy powerful radio reception anywhere. Here's a 1940 de luxe feature you'll really appreciate.

• **Push-Button Tuning.** "Feather-touch" type—just tip the button with your finger—and there's your station! Tunes any four favorite stations in a flash, easily, accurately. Easily adjusted from front. A wonderfully convenient tuning feature.

• **New 150 MIL Tubes.** The perfected R.C.A. and Hazeltine licensed circuit uses the new 150 mil tubes. No ballasts, no heater cords required. The new tubes assure more sensitivity, more power. You'll notice the difference the moment you tune this 1940 model.

Plus THESE FEATURES!

- TELEVISION CONNECTION
- P. M. DYNAMIC SPEAKER
- FULL-ACTING A.V.C.
- FULL 1½ WATTS OUTPUT
- LARGE AIRPLANE DIAL

Here's our Value Leader for 1940! Here's the year's ideal "utility" radio with every new feature, with outstanding performing ability, with the last word in cabinet styling—priced amazingly low! Here's versatile operation from AC or DC with five tubes that work like seven. You can't beat the quality or the looks or the price anywhere! Just compare these value-giving features:

• **BUILT-IN "AIR-MAGNET".** No aerial—no ground required! The **Knight 5** has the perfected built-in "Air-Magnet" which does away with outside aerial connections, trailing wires, etc. Just plug the set in like any appliance, and you get perfect reception. Always ready for immediate operation. You can play it wherever 110 volt, 40-60 cycles A.C. or D.C. current is available. And you can take it with you anywhere; it's compact; carry it anywhere, play it anywhere! (Also plays from 220 Volts A.C. or D.C. when used with the special adapter listed below.)

• **PUSH-BUTTON TUNING.** Enjoy "Feather-Touch" Push-Button Tuning for any four favorite stations. Just tip the button with your finger—and there's your program! It's easy to adjust right from the front; it can't get out of order; it's precise and fool-proof. And, in addition to Push-Button Tuning, the **Knight 5** offers easy regular manual tuning with its new large full-vision illuminated Airplane Dial, indicator travels quickly across dial face to permit easy station logging. Tuning range covers 540 to 1730 kilocycles for powerful reception of all standard Broadcast American and Canadian programs, plus many Police Calls.

• **1940 CIRCUIT.** Licensed by R.C.A. and Hazeltine laboratories, the circuit of the **Knight 5** brings you radio's finest engineering skill. Uses the latest type 150 mil tubes as follows: 12SA7GT as Conv.-Osc. (dual-purpose); 12K7GT as I.F.; 12SQ7GT as Det.-1st Audio (dual-purpose); 50L6GT as Power Output; 35Z5GT as Rect. This brilliant circuit assures higher gain, greater power output and splendid tone quality. It means more radio enjoyment for you, whether you play the receiver from A.C. or D.C., or whether you are home or traveling.

• **"EXTRA" FEATURES.** The **Knight 5** is ready for Television when it comes—has connection for Television Sound! Incorporates full-acting A.V.C. for uniform volume and to prevent fading. Uses the latest type 5-inch P.M. dynamic speaker for full volume-handling capacity and natural, realistic tone. Develops surprising 1½ watts power output. Only the finest standard parts are used throughout for dependable radio results. Don't let the low price be your buying index—you're really getting outstanding quality and splendid value in this new 1940 **Knight 5!**

• **NEW PLASTIC DESIGN.** You will be proud of the appearance of the molded plastic cabinet of the **Knight 5**. It is harmoniously proportioned, with sleek, soft lines and special louvre grille design for best acoustical results. Push-Buttons are conveniently placed for easy access. The **Knight 5** is available in soft, appealing ivory finish, or in warm mottled walnut. Measures: 9½" long, 7" high, 5" deep.

• **KNIGHT AC-DC 5 COMPLETE.** The **Knight 5** Tube AC-DC Superhet comes complete with tubes, as illustrated and described above. For operation from 110 volts, 40-60 cycles A.C. or D.C. Shpg. wt., 8 lbs.

A10830. Walnut.
Retail Value, \$14.95.
NET EACH, \$8.45.

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

\$7⁹⁵

A10831. Ivory.
Retail Value, \$16.95.
NET EACH, \$9.25.

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

\$8⁷⁵

A9145. 220 Volt Adapter for above set. NET..... 59c
A9153. Suedette Carrying Case, with zipper opening and handle. NET..... 85c

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It's New • It's Beautiful - IT'S RADIO'S BIGGEST VALUE
and it has
the "AIR-MAGNET"!



With New ROTOR-DIAL
and AUTOMATIC TUNING

Knight 5 TUBE AC-DC SUPERHET

We're excited about this 1940 Knight 5—and we've a right to be. It's entirely new—from its perfected Superhet circuit to its striking cabinet—packed with new and valuable features. You'll get excited about it, too, once you try it, once you listen to its power and its wonderful tone. You'll be amazed at our ability to sell a set of this quality at so low a price!

- **Carries Anywhere—Plays Everywhere.** You can't beat the Knight 5 for convenience. No more need to worry about attaching aerial and ground wires. The new "Air-Magnet"—built right into the cabinet—picks up stations from near or far with equal ease. All you have to do is plug the line cord into the nearest electric outlet, and you're ready to enjoy perfect reception. Operates with full efficiency from 110 volts 60 cycles A.C. or D.C., and in addition, from 220 volts when used with adapter listed below. Play the Knight 5 anywhere; take it with you when you travel. You'll never want to be without this ideal "companion" radio.
- **Push-Button Tuning.** Get any of your four favorite stations by just tipping a button with your finger. The new "Feather-Touch" Push-Button Tuning System has an effortless $\frac{1}{8}$ " stroke; it's easily adjusted from the front and tunes right on the head each time! Regular manual tuning is almost as easy, too, by means of the giant 5-inch plastic-molded Rotor Dial. Gets your stations in a jiffy. Tuning range covers 535 to 1720 kilocycles, including the entire American and Canadian Broadcast band and the popular 1712 K.C. Police channel.
- **Superhet Circuit for 1940.** The R.C.A. licensed circuit of the Knight 5 brings you the latest and finest engineering developments. New tubes actually give you 7 tube power and efficiency. Used as follows: 12A8GT as Conv.-Osc. (dual-purpose); 12K7GT as I.F.; 12Q7GT as Diode Det.-A.V.C.-1st Audio (triple-purpose); 35L6GT as Power Output; 35Z5GT as Rect. This combination furnishes surprising power; you'll get what we mean when you listen to the amazing tone quality and power output of the receiver.
- **Additional Features.** The Knight 5 is ready for Television when it comes; it's equipped with connection for Television sound. Has full Automatic Volume Control to maintain steady, unwavering volume level on all programs. Full 2 watts output is superbly handled by the 5 P.M. Electro-dynamic speaker, and that means the best tone you've ever heard from a compact radio. The new 150 mil tubes give more power, and do away with ballasts and heater cords.
- **New Style Sensation.** You've never before seen such beauty, such lines, such flawless plastic-molding. You've got to see the cabinet to appreciate it fully. Beautifully molded along sweeping lines, the Knight 5 is available in a choice of soft, creamy Ivory, smooth Walnut, or handsome Onyx. Size: $11\frac{1}{4}$ " x $6\frac{1}{4}$ " x $6\frac{1}{2}$ ".
- **Set Complete.** Supplied complete with "Air-Magnet" and tubes. Exactly as described. For operation from 110 volts, 40-60 cycles A.C. or D.C. Shpg. wt., 8 lbs.

A10800. \$ Walnut. Value, \$17.50. NET EACH, \$9.95. LOTS OF 3, EACH.....	9⁴⁵	A10801. \$ Ivory. Value, \$19.95. NET EACH, \$11.45. LOTS OF 3, EACH.....	10⁹⁵	A10802. \$ Onyx. Value, \$22.50. NET EACH, \$12.60. LOTS OF 3, EACH.....	12¹⁰
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A9145, 220 Volt Adapter for operating set from 220 volts A.C. or D.C. NET..... 59c

Built-in "Air-Magnet." No more aerial nuisance or bother. Say "goodbye" to trailing aerial and ground wires. The built-in "Air-Magnet" eliminates need for aerial and ground. Just plug in like any electrical appliance, and enjoy reception from everywhere! You'll like this 1940 feature that means real radio convenience.

Push-Button Tuning. Tune any four favorite stations just by pressing a button. Uses the new "Feather-Touch" system—just tip the button with your finger—and there's your station, tuned easily, precisely every time! Easy to adjust, easy to operate. Enjoy the convenience of accurate Automatic Tuning.

Plus
THESE FEATURES

- TELEVISION CONNECTION
- FULL-ACTION A. V. C.
- NEW 5" ROTOR DIAL
- FULL 2 WATTS OUTPUT
- P.M. DYNAMIC SPEAKER
- TUNES POLICE CALLS



WHEREVER RADIO EQUIPMENT IS BOUGHT ALLIED is *First Choice!*

To thousands of wise radio buyers everywhere there is only one single, dependable source of supply for everything in the radio field. This source is ALLIED RADIO—the house that is *First Choice* wherever high-grade, low-cost radio equipment is required. Three simple reasons account for ALLIED'S consistent leadership:

FIRST—ALLIED'S high standards of quality are your assurance that you can buy with confidence . . . that every item you order from us will meet the most exacting standards for performance and dependability.

SECOND—ALLIED'S low prices always assure you of fullest value for your money. You get more . . . you save more . . . you profit more on every purchase.

THIRD—ALLIED'S prompt, careful service saves you time and effort. Our central location and our efficient shipping methods mean that your orders are always delivered quickly and safely. In every field of radio, the ALLIED Catalog is recognized as the foremost Buying Guide. Whatever your particular interest—Radio receivers, Sound equipment, Amateur gear, Service instruments, Replacement parts, Experimental apparatus—you will find us a complete, dependable source of supply. By consolidating your purchases and by ordering all your radio equipment from one source, you can effect considerable savings in time and transportation costs. Follow the lead of thousands of satisfied radio buyers—make ALLIED Your *First Choice*, too.

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. Any merchandise that does not so operate, if returned at once, will be promptly adjusted by exchange, repair or refund.—

ALLIED RADIO CORPORATION

4 TUBE *Knight* AC-DC SUPERHET

- Dynamic Speaker
- Attached Antenna
- Tunes Police Calls
- Plays Anywhere
- Superhet Circuit
- 1½ Watts Output

Here's a new "Tiny-Knight" style sensation that sets the radio-vogue for 1940! It's a real Superhet receiver that delivers remarkable tone quality, with surprising power and sharp selectivity. It's small enough to hold in the palm of your hand—you can carry it anywhere and play it anywhere with real big-set performance. And it has a 1940 look about it that you'll be proud of. Just check these outstanding value features that bring you real performance:

• **Play It Anywhere.** You can play the Knight 4 practically anywhere. Its versatile design permits operation with equal efficiency from 110 volts A.C. or D.C., 40-60 cycles. The complete set weighs only 4½ lbs. Attached 20 foot antenna wire permits instant operation. These features make the Knight 4 the ideal travelling companion or "personal" radio in the home. Use it as a "second" radio at home; take it along with you wherever you go. You can't beat the versatility of the new Knight 4!

• **Tunes Police Calls.** The extended tuning range of the Knight 4 covers 535 to 1720 kilocycles, bringing you strong and enjoyable reception of all standard Broadcast programs plus upper channel Police calls. Has easy-to-tune dial, plastic-molded dial. You'll like the way this compact set reaches out and pulls in the distant ones; you'll like the surprisingly full and rich tone quality on all programs. Develops unusual power, bringing in stations from near or far with consistently uniform volume level. The new type P.M. Dynamic Speaker assures you of a brilliant quality of tone you'll seldom find in so compact a set. You'll enjoy every program you tune in!

• **New Superhet Circuit.** The Knight 4 features an unusually efficient Superhet circuit licensed by R.C.A. New type 150 mil tubes—fully equal in performance and dependability to big set tubes—are used as follows: 12A8GT as Conv.-Osc. (dual-purpose); 12S7GT as Det. and 1st Audio (dual-purpose); 50L6GT as Power Output; 35Z5GT as Rect. The use of dual- and triple-purpose tubes actually achieves 6 tube set results. The new 150 mil tubes do away with ballasts and heater cords. Every tube works at top efficiency, developing an undistorted output of 1½ watts—more than enough for fine powerful reproduction of all programs.



• **Smart Cabinet Styling.** You get a new and enjoyable kind of radio beauty in the Knight 4 plastic-molded cabinet. It is flawlessly designed and beautifully molded, with a graceful dual-louvre grille blending into soft flowing lines. There are no sharp edges or corners; the whole effect is harmonious and pleasing. The large round plastic-molded tuning control is easy to read and tune. The cabinet design is acoustically perfect and enhances tone quality. Available in a choice of beautiful colors: soft Ivory, mottled Walnut or rich Onyx. Here is one of the most beautiful plastic-molded radio cabinets ever created—you'll be proud to own this model!

• **Knight 4 Complete.** The Knight 4 Tube AC-DC Superhet in its beautiful plastic-molded cabinet is offered complete with tubes, Dynamic speaker and attached antenna. For operation from 110 volts, 40-60 cycles A.C. or D.C. Here's 1940's most compact and versatile radio—small in size, but a real giant for radio results. You can't beat the price anywhere. Anyone can afford this fine performer which will make an ideal personal receiver or "second" radio in the home. Three models—Ivory, Walnut, or Onyx, are listed below. You've never before been able to buy so much radio for your money.

A10803. Walnut. Retail Value, \$12.95 NET EACH, \$7.50. LOTS OF 3, EACH.....	\$7.15	A10804. Ivory. Retail Value, \$13.95 NET EACH, \$8.25. LOTS OF 3, EACH.....	\$7.95	A10805. Onyx. Retail Value, \$15.95 NET EACH, \$9.10. LOTS OF 3, EACH.....	\$8.75
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4 TUBE "Tiny Knight"

- Dynamic Speaker
- Built-in Antenna
- Gets Police Calls
- Plays Anywhere
- Smart Cabinet
- Weighs Only 4 Lbs.

We bring you in this beautiful new AC-DC model America's smallest radio with big set tone and power! This new 4 Tube "Tiny Knight" AC-DC radio is so small that you can hold it in the palm of your hand—so low-priced that anyone can afford it—yet so cleverly engineered that in power output and in performance it is equal to models ten to twelve times its size.

• **Plays Anywhere.** The "Tiny Knight" 4 is outstanding for its unusual versatility. You can carry it and play it wherever 110 Volt 40-60 cycle A.C. or D.C. current is available. So small is this new receiver, that you can pack it into any size suitcase or overnight bag and take it along when you travel. You can enjoy fine radio entertainment wherever you go. A built-in 20 foot aerial wire on hank permits instant operation.

• **Powerful New Circuit.** An exceptionally efficient new R.C.A. licensed circuit accounts for the splendid performance of the "Tiny Knight" 4. The latest 150 mil tubes are used as follows: 12K7GT as R.F. Amp.; 12J7GT as Det.; 50L6GT as Audio Output; and 35Z5GT as Rectifier. Every tube works, contributing to strong, thoroughly enjoyable reception. The 50L6GT Output stage develops an undistorted output of 1.2 watts (1.5 watts maximum)—more than enough for fine reproduction of all programs—and achieves strong volume seldom found in compact sets. Both voice and music are delightfully recreated through the newly designed full Electro-dynamic speaker. The new 150 mil tubes completely eliminate ballasts and heater cord.

• **New Easy-To-Tune Dial.** The large molded dial of the "Tiny Knight" 4 is clearly marked and easy to operate. Calibrations in kilocycles are large and easily legible, covering an extended range of 535 to 1720 kilocycles for reception of all standard Broadcast programs plus many Police calls. Molded finger-grip on dial makes tuning unusually convenient. You'll enjoy the almost miraculous way in which this tiny receiver picks up programs from near and far and brings them to you in a thoroughly enjoyable manner. Tone quality, distance-reach, and sturdy dependability have not been sacrificed; so efficiently has this new set been designed that even many larger sets cannot offer such fine performance.

• **Tunes Police Calls.** In addition to the standard Broadcast band, the Knight 4 covers the 1712 K.C. Police band. You get extra tuning coverage and extra refinements at an amazingly low price. No other low-cost receiver brings you so much for your money.



• **Beautiful Tone Quality.** No other receiver as small as the new "Tiny Knight" 4, approaches the superb tonal quality it offers. You'll be amazed at its strong volume, its beautiful tone. Definitely not a novelty, not a toy, the "Tiny Knight" is America's smallest quality radio—delivering full, enjoyable performance and full value.

• **Set Complete.** The "Tiny Knight" 4 tube AC-DC receiver is supplied complete with tubes in handsome Bakelite cabinet as described at left. For operation from 110 volts, 40-60 cycles, AC or DC. Shpg. wt., 5 lbs. A wonderful value in a compact receiver of real quality.

• **Striking New Cabinet.** An entirely new and beautiful cabinet has been especially created for this remarkable receiver. Molded of one-piece Bakelite over smooth, simple lines. Louvre grille is both attractive and practical; it supplies enlarged baffle area, greatly enriching the tonal quality. Cabinets are available either in soft, rich Ivory, or in attractive Walnut. Size is only 6½" wide, 4¾" deep, and 4½" high. Weighs only 4 lbs., you can carry it with you anywhere.

A10806. Walnut. Retail Value, \$9.45 NET EACH, \$5.85. NET PRICE, LOTS OF 3, EACH.....	\$5.65	A10807. Ivory. Retail Value, \$10.45 NET EACH, \$6.60. NET PRICE, LOTS OF 3, EACH.....	\$6.35
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Amazing Table

Ready for TELEVISION

The two new Knight Radios shown at left and right are all ready for Television when it comes. Both incorporate built-in connection for Television attachment—a 1940 extra-value feature.

R. C. A.
LICENSED



Knight 5 TUBE AC SUPERHET

- WITH AUTOMATIC TUNING
- HAS "AIR-MAGNET"
- FULL A.V.C. ACTION

This brilliant new Knight receiver in a cabinet of the latest modified upright trend is a pace-setter in radio styling, performance, and value. Incorporating latest circuit refinements, built to offer splendid reception and superb tonal quality, the Knight 5 Tube A.C. Superhet is a top quality radio within the reach of every purse. You won't find a better-looking, richer-toned, more powerful receiver anywhere at our amazing low price. Just check these outstanding 1940 radio features:

- **Push-Button Tuning.** Tune any four of your favorite stations in a flash at the mere touch of a button. It's easy . . . it's convenient . . . it's accurate. The automatic tuning system used in the Knight 5 is easily adjusted from the front when the receiver is installed, and no further regulating is necessary. You'll enjoy this perfected method of automatic tuning. Brings your favorite stations in right on the head.
- **New Pearlold Dial.** The big new slide-rule dial, 5 $\frac{3}{4}$ "x4 $\frac{3}{4}$ ", is an unusual combination of beauty and utility. Translucent pearl-like background shows up all calibrations clearly and legibly. Needle-pointer travels horizontally to show you exactly what sector of the tuning range is being covered. Dial face and automatic tuning unit are integrated into a handsome one-piece plastic-molded escutcheon.
- **The All-Purpose Radio.** The Knight 5 is the ideal all-purpose radio for living-room, den, bedroom, or office. Its tuning range covers the full Standard Broadcast band plus upper channel Police calls to bring you all your favorite programs. The built-in "Air-Magnet" offers extra convenience because it eliminates all bother with aerial and ground connections. Just plug in the Knight 5 to any 110 Volt A.C. outlet and it's ready to give you powerful, true-toned, enjoyable radio entertainment. Here is an outstanding 1940 radio buy!

• **Powerful Superhet Circuit.** The Knight 5 Tube A.C. is built around an advanced R.C.A. licensed Superhet circuit employing the latest tube types for greatest efficiency and fullest power. Tubes used are: 6A8G as dual-purpose Conv.-Osc.; 6K7G as I.F. Amp.; 6Q7G as triple-purpose Diode Det.-A.V.C.-1st Audio; 6K6G as Power Output; and 80 as Rectifier. The 6K6G stage develops a wonderful 2.5 watts output, rarely achieved in low-priced 5 tube radios.

- **Extra Circuit Features.** Full Automatic Volume Control assures uniform volume and freedom from fading. Built-in connection will accommodate Television attachment or Record Player. All circuit components are of the highest quality, critical points are fully shielded.
- **Wonderful Tone.** The latest type of 5-inch dynamic speaker, cleverly mounted for increased baffle area, smoothly handles the 2.5 watts power output, bringing you tonal quality remarkable for its fidelity and richness. You'll never tire of listening to the Knight 5.
- **Advanced Cabinet Styling.** The beautiful new walnut cabinet which houses the Knight 5 combines luxurious walnut veneers into a design of striking new beauty. Especially attractive and outstanding is the unique new oversize speaker grille. The dial escutcheon is plastic-molded in a harmonizing finish. The entire cabinet is beautifully rubbed to a lustrous finish. Size: 12 $\frac{1}{2}$ " wide, 11 $\frac{1}{4}$ " high, 7 $\frac{3}{4}$ " deep.
- **Knight 5 Complete.** The Knight 5 Tube A.C. Superhet is supplied complete with tubes for operation from 110 Volts, 60 cycles A.C. Shpg. wt., 13 lbs. Code: DANCE. **\$1475**
A10810, Retail Value, \$29.95.
NET PRICE, EACH, \$15.45.
NET PRICE, LOTS OF 3, EACH, \$47.85.



PUSH-BUTTON TUNING

The Knight 5 Tube AC-DC Superhet is supplied in the beautiful table model cabinet shown above. Measuring 11"x7 $\frac{1}{2}$ "x5 $\frac{1}{4}$ ", this lovely cabinet embodies finest walnut woods in a charming design. Rich, horizontally striped walnut is set off by contrasting bands of darker tones. Push-buttons are conveniently placed at top where they are readily accessible.

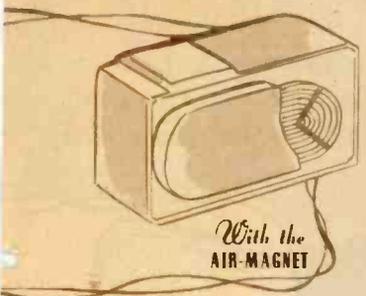
- WITH "AIR-MAGNET"
- FULL-ACTING A.V.C.
- HAS TONE CONTROL
- NEW P.M. SPEAKER
- PLAYS ANYWHERE

Knight 5 TUBE AC-DC SUPERHET

Here's a real leader for value—a splendid 5 tube AC-DC Superhet bringing you more beauty, more quality, more fine performing ability than you've ever seen at so low a price. Here's the set giving you versatile operation, true Superheterodyne performance, and charming cabinet beauty!

- **Push-Button Tuning.** Fully automatic, the push-button tuning system in the Knight AC-DC 5 brings you any of four favorite local stations at the touch of a button. It's precise and fool-proof; there's nothing to get out of order. In addition to automatic tuning, the Knight 5 includes a large airplane dial for manual tuning of all Standard Broadcast programs (540 K.C. to 1730 K.C.) and many Police Calls.
- **Carries and Plays Anywhere.** Needs no aerial, no trailing ground wire. The built-in "Air-Magnet" picks up stations all over the dial with equal ease. The Knight 5 operates with equal efficiency from 110 volts, 60 cycles A.C. or D.C., and, in addition, from 220 volts A.C. or D.C. with adapter below.
- **Newest Superhet Circuit.** Fully R.C.A. and Hazeltine licensed, the Superhet circuit in the Knight 5 uses the very latest tube types as follows: 12SA7GT as dual-purpose 1st Det.-Osc.; 12K7GT as I.F. Amp.; 12SQ7GT as Diode Det.-A.V.C.-1st Audio; 50L6GT as Audio Output; 35Z5GT as Rectifier. This tube line-up assures bigger power output, greater distance reach, and better tonal fidelity. Full Automatic Volume Control, and variable Tone Control are added features. Can be adapted for Television sound reception. The newly designed 5-inch Permanent Magnet Dynamic speaker gives you exceptional tone quality on every program.
- **Set Complete.** The Knight 5 Tube AC-DC Superhet, in table cabinet described at left, is supplied complete with tubes for 110 volts, 40-60 cycles A.C. or D.C. Shpg. wt., 8 lbs. Code: GLEAM. **\$1075**
A10832, Retail Value, \$19.95.
NET PRICE, EACH, \$11.35.
NET PRICE, LOTS OF 3, EACH, \$34.05.
A9145, 220 Volt Adapter for above set. NET. 59c

Model Values!



With the
AIR-MAGNET



Knight 6 TUBE AC-DC SUPERHET

PUSH-BUTTON TUNING

- PERSONAL TONE CONTROL • SLIDE-RULE DIAL • FULL A.V.C. • "ACOUSTIC Baffle" • 5" DYNAMIC SPEAKER

You've seldom seen a table model receiver so beautiful . . . so packed with valuable features . . . so amazingly low-priced as this new Knight 6 Tube AC-DC Superhet. All the latest, most desirable features have been built into this splendid performer to give you strong reception, rich tone quality, and unusual stability of operation.

• **Carries and Plays Anywhere.** Here is a compact radio that's really self-contained. The startling new "Air-Magnet"—built right into the cabinet—picks up stations from near and far with equal ease. You can use the Knight 6 wherever electric current is available. It operates with equal efficiency from 110 volts, 60 cycles, A.C. or D.C., or (with adapter listed below) from 220 volts A.C. or D.C. Here's the ideal utility radio for home, for office, or for travelling.

• **Automatic Push-Button Tuning.** Here is improved 1940 fully automatic tuning. Just push a button for any of four favorite stations. And in addition to automatic tuning, the Knight 6 offers improved regular manual tuning with its new 3 1/2" x 1 1/2" Slide-Rule dial. The tuning range covers 535 to 1630 kilocycles for powerful reception of all Standard Broadcast American or Canadian programs, plus Police Calls.

• **Powerful Superhet Circuit.** The very newest tube types are incorporated in a powerful R.C.A. and Hazeltine licensed Superhet circuit. Tubes are: 6A7 as Conv.-Osc. (dual-purpose); 6D6 as I.F. Amp.; 75 as triple-purpose Diode Det.-A.V.C.-1st Audio; 25L6G as Beam Power Output; 25Z5as Volt. Doubler; 25Z3 as Rectifier. Other features: special heat-reducing circuit; new Static Shield to keep out man-made noise interference; rubber-mounted tuning condenser; Television Connection. Full Automatic Volume Control maintains steady volume level, prevents fading or blasting. You'll enjoy the sterling performance, the convenience of operation, the extra-value features of the Knight 6.

• **Sparkling Tone Quality.** Every program has new life, new depth for you when you hear it with the Knight 6 Tube AC-DC Superhet. A new five-inch dynamic speaker, mounted behind a special "Acoustic Baffle" speaker grille, handles the full audio output clearly and smoothly. Variable Tone Control selects the tonal emphasis you most enjoy.

• **New Cabinet Beauty.** The charming new plastic-molded cabinet of the Knight 6 will win widespread approval. All edges are pleasingly rounded. The unique speaker grille adds a note of distinction to this charmingly designed cabinet. The Knight 6 is available in a choice of colors, each one soft and rich: creamy Ivory, rich Walnut, or gleaming Onyx. All these features, plus this new beauty, make the Knight 6 a radio triumph. Size: 12 1/2" wide, 7" high, 6 1/4" deep.

• **Set Complete.** Supplied complete with tubes and built-in "Air-Magnet." For operation from 110 volts, 60 cycles A.C. or D.C. Shpg. wt., 12 lbs. An exceptional radio value.

A10833. In beautiful Walnut cabinet.

Retail Value, \$22.50.

NET EACH, \$11.95.

NET, LOTS OF 3, EACH

\$11.45

A10834. Ivory.

Retail Value, \$24.50.

NET EACH,

\$12.95.

NET, LOTS OF 3,

EACH

\$12.45

A10835. Onyx.

Retail Value, \$26.50.

NET EACH,

\$13.45.

NET, LOTS OF 3,

EACH

\$12.95

A9145. 220 Volt Adapter for above models. NET 59c

Knight 5 TUBE AC-DC SUPERHET

Here's the winner of its price class! This remarkably attractive compact Knight 5 Tube AC-DC Superhet has everything you want for fine radio entertainment. Your radio dollar has never bought more! Just look at these splendid features:

• **Built-In "Air-Magnet."** There are no trailing wires! no bothersome aerial and ground connections in this new Knight with the built-in "Air-Magnet". Add to this the fact that the Knight 5 operates with equal efficiency from 110 volts A.C. or D.C. (or, with adapter listed below, from 220 volts A.C. or D.C.), and you will see why this versatile model is bound to make and keep friends everywhere.

• **Powerful New Circuit.** An advanced R.C.A. licensed Superhet circuit uses the newest tubes as follows: 12A8GT as dual-purpose Conv.-Osc.; 12K7GT as I.F. Amp.; 12D7GT as triple-purpose Diode Det.-A.V.C.-1st Audio; 35L6GT as Power Output; and 35ZGT as Rectifier. Includes full-acting A.V.C.—another feature almost never offered in so low priced a set. An unusually well-built P.M. Dynamic Speaker handles all programs with exceptional smoothness and clarity.

• **Easy-To-Tune Dial.** You can easily tune all your favorite programs with the beautiful new Pearloid full-vision, 2 3/4" airplane type dial. Reception range covers 535 to 1720 kilocycles, including the full Standard Broadcast band plus the 1712 K.C. Police Channel.

• **Beautiful Tone Quality.** Few compact receivers can match the Knight 5 for tonal quality. It's amazingly free from distortion and "tinny"; rich, full-bodied tone quality is an outstanding characteristic of this new receiver.

• **Set Complete.** The Knight 5 Tube AC-DC Superhet is supplied complete with tubes in the table cabinet described at right. For 110 volts, 60 cycles, A.C. or D.C. Shpg. wt., 7 lbs. Code: LEARN.

A10811. Retail Value, \$23.50.

NET PRICE, EACH, \$11.95.

NET PRICE, LOTS OF 3, EACH

A9145. 220 Volt Adapter for above set. NET 59c

\$11.45



R. C. A. LICENSED

FEATURES:

- NEW PEARLOID DIAL
- WITH "AIR-MAGNET"
- FULL-ACTING A.V.C.
- PLAYS ANYWHERE
- GETS POLICE CALLS
- 1.5 WATTS OUTPUT

The beautiful walnut cabinet which houses the Knight 5 Tube AC-DC Superhet will appeal to everyone because of its lovely design. Top and side, with roll-over effect, are of lighter grained wood with contrasting darker toned front face. Cabinet measures 10" high, 5 3/4" wide, 5 1/4" deep. Has full-vision translucent Airplane Dial in attractive colors.



With **PUSH-**

- **READY FOR TELEVISION**
- **SLIDE-RULE DIAL**
- **WITH TONE CONTROL**
- **FULL A. V. C. ACTION**
- **NEW 6" SPEAKER**

with the

Knight 6 TUBE 2 BAND AC-DC SUPERHET

For wonderfully versatile operation, for powerful two-band reception, for rich, faithful tone quality, and for striking cabinet beauty, this new Knight 6 Tube 2 Band AC-DC Superhet can't be surpassed at our exceptionally low price. Compare it with ordinary sets costing up to \$40, then check comparative features one by one, and you'll agree that the Knight 6 has no equal at this price.

• **Push-Button Tuning.** Simple, easy-working, accurate. You can tune any four of your favorite stations with a touch of your finger. Front-adjusted buttons with effortless 1/4" stroke have novel magnifying-glass button face. Regular manual tuning, too, is exceptionally easy with the new 3 3/4" x 4 1/4" Pearloid Slide-Rule Dial. This beautiful dial has a separate scale for each wave-band.

• **Tunes 2 Full Bands.** The powerful tuning range of the Knight 6 covers two full wave-bands. The 535 to 1720 kilocycle range covers the entire Standard Broadcast band and also includes upper channel Police Calls. The 5.65 to 18.1 megacycle band covers popular foreign and domestic Short-Wave stations. Here is splendid two-band reception of all important channels, at a price anyone can afford!

• **Built-In "Air-Magnet."** Exceptional versatility is built into the Knight AC-DC 6. Includes the wonderful new "Air-Magnet" which does away entirely with trailing aerial and ground wires and assures exceptionally fine signal response on both wave bands. The Knight 6 will play perfectly almost anywhere, for it operates with equal efficiency from 110 volts, 60 cycles, A.C. or D.C. and (with adapter listed below) also operates from 220 volts.

• **New Superhet Circuit.** A powerful R.C.A. licensed Superhet circuit employs latest tube types as follows: 12A8GT as Conv.; 12J5GT as Osc.; 12K7GT as I.F. Amp.; 12Q7GT as triple-purpose Diode Det.-A.V.C.-1st. Audio; 35L6GT as Power Output; 35Z5GT as Rectifier. A generous 2 watts output is developed. The use of the triple-purpose 12Q7GT adds to efficiency and all-around dependability.

• **Additional Features.** Here are "extra-value" features seldom offered in sets priced so low: the new Television Connection will accommodate Television Picture attachment or any Record Player; full Automatic Volume Control maintains uniform volume level on all programs; Tone Control allows you to select the tonal emphasis you prefer.

• **Beautiful Tone.** You'll always enjoy listening to the Knight 6 Tube 2 Band AC-DC Superhet. Every program is richly and faithfully reproduced by the full 6-inch Dynamic Speaker. Clear, mellow tone quality such as this receiver offers will delight you always.

• **Handsome Table Cabinet.** An unusually tasteful new table cabinet has been selected to house this splendid new receiver. Choice walnut veneers are used in a modern streamlined motif. Contrasting two-toned bands, rounded corner, and choice grille cloth contribute an air of grace and refinement to this design. Cabinet measures 18 1/2" wide, 10 1/4" high, and 8 3/4" deep.

• **Set Complete.** The Knight 6 Tube 2 Band AC-DC Superhet is offered complete with tubes in table cabinet illustrated above. For operation from 110 volts, 60 cycles, A.C. or D.C. Shpg. wt., 15 lbs. Code: WATC.H.

A10812.
Retail Value, \$39.95.
NET EACH, \$19.45.
NET PRICE, LOTS
OF 3, EACH

\$1875

A9145, 220 Volt Adapter. NET 59c



R.C.A. & HAZELTINE LICENSED

5 TUBE AC-DC SUPERHET

Here's the kind of value that has made ALLIED famous with radio buyers everywhere. Big in power... rich in tone... packed with features, the Knight 5 Tube AC-DC Superhet is truly a quality-built radio at a smashing low price. You'll thrill to the way in which this splendid performer brings you all of your favorite programs with velvet-smooth, full-bodied tone.

• **Built-In "Air-Magnet."** Here's real radio versatility! The amazing new "Air-Magnet," built right into the Knight 5, picks up programs from near and far with surprising ease... eliminates the old-time fuss with trailing aerial and ground wires. This new set is truly portable and self-contained. It is ready to perform perfectly the minute you plug it in to any 110 volt, 60 cycle, A.C. or D.C. outlet. Will also operate (with adapter below) from 220 volts, A.C. or D.C.

• **Powerful Superhet Circuit.** Licensed by the world-famous R.C.A. laboratories, the Superhet circuit of the Knight 5 uses the new 150 mil tubes (no ballast, no heater cord required) as follows: 12A8GT as dual-purpose Conv.-Osc.; 12K7GT as I.F. Amp.; 12Q7GT as triple-purpose Diode Det.-A.V.C.-1st. Audio; 35L6GT as Power Output; 35Z5GT as Rectifier. 2 watts output is developed and is splendidly handled by the new 5-inch Permanent Magnet Dynamic speaker.

• **Wonderful Performance.** The tuning range covers the entire Standard Broadcast band plus upper channel Police Calls. Tunes 535 to 1720 kilocycles. Full Automatic Volume Control prevents fading or distortion. Television Connection will accommodate Television Picture attachment when Television reaches your community. The Knight 5 will also accommodate any Record Player (see pages 22-23) for fine reproduction of your favorite recordings.

• **Set Complete.** The Knight 5 Tube AC-DC Superhet is supplied complete with tubes in cabinet described at left. For operation from 110 volts, 60 cycles, A.C. or D.C. Shpg. wt., 10 lbs. Code: MARSH.

A10813.
Retail Value, \$24.50.
NET PRICE EACH, \$12.95.
NET PRICE, LOTS
OF 3, EACH

\$1245

A9145, 220 Volt Adapter. NET 59c

FEATURES:

- WITH "AIR-MAGNET"
- NEW PEARLOID DIAL
- FULL A.V.C. ACTION
- 2 WATTS OUTPUT
- P.M. DYN. SPEAKER
- READY FOR TELEVISION

The beautiful table cabinet illustrated above houses the Knight 5 Tube AC-DC Superhet. Built of choice walnut veneers in handsome two-tone effect with light-grain horizontally striped walnut set off by darker band extending around the corners. Cabinet measures: 12" wide, 7 1/4" high, and 7" deep. The ideal "utility" set for living-room, bedroom, den, or office, the Knight 5 is easily portable and is ready to play instantly when plugged into any electric outlet. An exceptionally fine radio that will enhance any setting.

BUTTON Tuning

- ▶ SLIDE-RULE DIAL
- ▶ FULL-ACTING A. V. C.
- ▶ DYNAMIC SPEAKER
- ▶ 1½ WATTS OUTPUT
- ▶ LOUVRE-TYPE GRILLE

All four of the new **Knight** Radios shown on these two pages are equipped with the built-in "Air-Magnet." No more fuss with trailing antenna and ground wires no more bother every time you want to move the radio. Just plug in like any electrical appliance, and your radio is ready to play!

"AIR-MAGNET"



Knight 5 TUBE AC-DC SUPERHET

We challenge you to match this **Knight 5** anywhere at our amazingly low price! Here are the finest and newest features: Push-Button Tuning, Slide-Rule Dial, "Air-Magnet" and Static Shield; plus big power, wide reach, and truly magnificent tone. And look at the beautifully designed and finished table model cabinet! You won't find a better radio value than this new 5 tube AC-DC Superhet anywhere.

• **Push-Button Tuning.** Just tip the button and there's your station! No pressing or pushing with new "Feather-Touch" Automatic Tuning. Gives you your choice of any four of your favorite stations—accurately, instantly. Easily and quickly adjustable to any stations.

• **Slide-Rule Dial.** The large full-vision Slide-Rule Dial makes regular tuning easy. Clear, legible scales are etched on glass and lighted from behind. The **Knight 5** tunes 535 to 1630 k.c. covering all American Broadcast stations. Brings you the finest programs from near and far with plenty of power and enjoyable tone.

• **"Air-Magnet" And Static Shield.** No aerial, no ground needed with the new built-in "Air-Magnet." Just plug in and play! Gives

more versatility, more convenience. The Static Shield assures pure tone and clear reception even in noisy localities. Enjoyable performance is yours almost anywhere with the **Knight 5**.

• **Powerful 1940 Circuit.** Operates equally well from either 110 Volt 40-60 cycle current A.C. or D.C. or, with adapter listed below, from 220 Volts A.C. or D.C. You get radio's most important improvements in the powerful R.C.A. and Hazeltine licensed circuit of the **Knight 5**. Latest tubes are: 6A7 as 1st Det.-Osc. (dual-purpose); 6D6 as I.F.; 75 as 2nd Det.-A.V.C.-1st Audio (triple-purpose); 25L6 as Audio Output (1.7 watts); 25Z5 as Rectifier; L49B as Ballast. Powerful 6-inch dynamic speaker gives you amazingly life-like tone.

• **Additional Features.** The **Knight 5** AC-DC has full Automatic Volume Control for uniform volume. The dual- and triple-purpose tubes give added tube power and efficiency. Rubber-floated tuning condenser assures greater tuning stability; and the louvre-type grill opening assures better acoustical results. Order the **Knight 5** today! It's a truly remarkable value at our amazingly low price! See page 11 for details of our liberal Trial Offer.

• **Thrilling Beauty.** You will marvel at the modern beauty of the cabinet of the **Knight 5**! It sets a new high for superb radio styling! It is fashioned of horizontally-stripped choice walnut, with top and bottom trim overlays of contrasting grain. Features a gracefully-flowing louvre-type speaker opening. The plastic-molded dial escutcheon has harmonizing walnut finish to blend skillfully. All surfaces are hand-rubbed to a lustrous piano finish. The set measures 12¼" long, 7¼" high, 7½" deep. It is one of 1940's outstanding cabinet designs.

• **Knight AC-DC 5 Complete.** The **Knight 5** AC-DC Superhet is offered in cabinet illustrated above, complete with tubes. For operation from 110 volts, 40-60 cycles A.C. or D.C. Here is an opportunity to own a fine-performing versatile AC-DC set at a low price. Shpg. wt., 13 lbs. Code: AGATE.

A10840.
Retail Value, \$23.50.
NET EACH, \$11.95.

YOUR PRICE,
LOTS OF 3, EACH

\$11.45

A9145. 220 Volt Adapter, **NET...59c**

6 TUBE A. C. SUPERHET

You'd never believe that so little would buy so much radio! Look what you get! A real 6 tube Superhet circuit tuning many more stations than ordinary sets selling at this price. Built-in type Aerial so that you can carry the set from room to room and merely plug it in for instant performance. Electric Eye for added convenience and accuracy in tuning. A full 5-inch Dynamic speaker for better tone quality. An amazing 3.5 watts. And that's not all. Just check these features:

• **Big Airplane Dial.** The **Knight 6** Tube A.C. Superhet is exceptionally easy to tune because it includes a big 4-inch Airplane full-vision dial. Dual-calibrated in kilocycles and meters, with large, clear markings for easy-reading. Tunes 540 to 1720 kilocycles, covering the entire Standard Broadcast band plus the popular 1712 K.C. Police Channel. The conveniently located Electric Eye shows you instantly when your station is perfectly in tune.

• **Outstanding New Circuit.** An advanced R.C.A. and Hazeltine licensed Superhet circuit, incorporates newest tube types for bigger power, better sensitivity, finer selectivity. Tubes are used as follows: 6SA7 as dual-purpose Osc.-Mod.; 6SK7 as I.F. Amp.; 6SQ7 as triple-purpose Diode Det.-A.V.C.-1st Audio; 6F6G as Power Output; 5V4G as Rectifier; 6U5 Electric Eye. The 6F6G stage develops a sensational 3.5 watts output.

• **Additional Features.** The Built-in Aerial ends all your trouble with aerial and ground wires. Picks up more stations with less noise than ever before. Full Automatic Volume Control maintains steady volume level on all programs; prevents fading and blasting. Tuning condenser is rubber-mounted.

• **Sparkling Tone Quality.** In tone quality, too, the **Knight 6** far surpasses other radio sets usually sold at this price. A full 5-inch Dynamic speaker of latest design reproduces each program with life-like clarity and brilliance.

• **Set Complete.** The **Knight 6** Tube A.C. Superhet is supplied complete with tubes in cabinet described at right. For operation from 110 volts, 60 cycles, A.C. Shpg. wt., 14 lbs. Code: RIGHT.

A10865.
Retail Value, \$12.50.
NET PRICE EACH, \$16.85.
NET PRICE, LOTS OF 3, EACH

\$15.95



R.C.A. & HAZELTINE LICENSED

FEATURES:

- WITH ELECTRIC EYE
- FULL A.V.C. ACTION
- 3.5 WATTS OUTPUT
- HAS BUILT-IN AERIAL
- 4" AIRPLANE DIAL
- 5" DYNAMIC SPEAKER
- TUNES POLICE CALLS

The new **Knight 6** Tube A.C. Superhet is offered in the gracefully designed table cabinet illustrated above. Front face and top are of one-piece, striped walnut veneer with smoothly shaped edge. Attractive beading at the base on both sides, shaped speaker grille bars, and neat dial escutcheon blend into a harmonious whole. Cabinet measures: 14¼" wide, 9" high, and 6¼" deep. A cabinet of perfect size for bookshelf or end table. Offers the last word in outstanding utility coupled with beauty. Will give years of perfect entertainment.



R.C.A. & HAZELTINE
LICENSED

*Superb Reception!
Beautiful Styling!*

1940's SENSATIONAL RADIO VALUE!

\$18⁹⁵

EACH IN LOTS OF THREE

the Knight 7 TUBE 2 BAND A. C. SUPERHET

Here's a handsome new 7-tube **Knight** receiver you'll be happy to own . . . such beautiful styling, splendid tone quality, and powerful reception have seldom been achieved in a receiver priced so low. Built to give years of enjoyable service, the **Knight 7 Tube 2 Band A.C. Superhet** includes all of the latest features that mean more dependable, more satisfying radio performance. Just check what value you get for your radio dollar.

Added Circuit Features. You get more for your money when you buy the **Knight 7 Tube 2 Band A.C. Superhet**, for its fine circuit includes important extra-value features. There's full Automatic Volume Control to maintain uniform volume level without fading or blasting. There's continuously variable Tone Control to permit personal choice of treble or bass emphasis. There's a built-in connection for Television or Record Player. Any of the Record Players shown on pages 22-23 can be used with the **Knight 7** to give you rich, faithful reproduction of your favorite recorded selections. You get more for your money in features, in performance—when you buy the **Knight 7**—the radio of tomorrow, here for you today!

PUSH-BUTTON TUNING

You'll enjoy the convenience of getting the program you want simply by pushing a button. The push-button tuning system used in the **Knight 7** is accurate, fool-proof, and instant in operation. Six station buttons are easily set to tune any six favorite local stations automatically, instantly and precisely!

TELEVISION CONNECTION

The **Knight 7** is ready for Television when it comes. It is built to receive Television Sound; when Television arrives you can simply attach the picture receiving unit and double the utility and enjoyment of this set.

- BIG SLIDE-RULE DIAL
- HAS TONE CONTROL
- FULL A.V.C. ACTION
- PHONO CONNECTION
- 3.1 WATTS OUTPUT
- 6" DYNAMIC SPEAKER
- BEAUTIFUL CABINET

• **Two-Band Reception.** The **Knight 7** offers you unusually fine reception on two bands from 540 to 1550 kilocycles and from 5650 to 18100 kilocycles. The Broadcast Station Band covers all of your favorite American and Canadian programs, and the Short-Wave Band brings you the popular, thrilling foreign and domestic Short-Wave stations. Here is real value—a modern, efficiently designed two-band radio receiver at a price which ordinarily buys only a Standard Broadcast set.

• **Big Slide-Rule Dial.** In addition to Automatic Push-Button Tuning (described at left), the **Knight 7 Tube Receiver** includes the latest type of Slide-rule dial for greater ease and accuracy in manual tuning. Measuring 6 $\frac{1}{4}$ " wide by 2 $\frac{3}{4}$ " high, this dial is clearly calibrated with separate scales for the Broadcast and Short-Wave bands. Dial has illuminated translucent scales and horizontal-travelling pointer so that you always know which band and which frequency you are tuning.

• **Latest Superhet Circuit.** A new Superhet circuit, licensed by R.C.A. and Hazeltine, employs the newest tube types for powerful reception and strong output. Tubes used are: 6A7 as Conv.; 6D6 as I.P. Amp.; 75 as dual-purpose Det.-1st Audio; 76 as Phase Inverter; 2-41 tubes for push-pull output; and 80 as Rectifier. The 2-41 tubes in push-pull circuit develop an exceptional output of 3.1 watts, more than sufficient for splendid program reproduction. Rubber-mounted tuning condenser and chassis add to stability.

• **Rich, Faithful Tone Quality.** Few table model receivers can surpass the tone quality offered in the **Knight 7 Tube receiver**. A full 6-inch dynamic speaker capably handles the big 3.1 watts output and recreates every program with splendid fidelity and tonal depth will thrill you!

• **Beautiful Table Cabinet.** The richly styled table cabinet housing the **Knight 7 Tube Superhet** is built of fine walnut-finished woods, hand-rubbed to a gleaming piano finish. Horizontally-stripped woods on the cabinet body are set off by two-tone trim at top and bottom and by a rich speaker grille overlay. This full-sized table cabinet measures 17 $\frac{3}{4}$ " wide, 11 $\frac{1}{2}$ " high, and 9 $\frac{1}{2}$ " deep.

• **Set Complete.** The **Knight 7 Tube 2 Band A.C. Superhet** is offered complete with tubes and 6" dynamic speaker for operation from 110 volts, 60 cycles A.C. Prove to yourself that the **Knight 7** gives you more for your money . . . try it out for 15 days under our liberal money-back guarantee (see page 11). Shpg. wt., 17 lbs. Code: CAMEO.

A10836.
Retail Value, \$39.95.
NET, EACH, \$19.95.
NET, LOTS OF 3, EACH **\$18⁹⁵**

Knight 7 TUBE 3 BAND A. C. SUPERHET

Beautifully styled in the latest mode, this 1940 Knight 7 Tube 3 Band A.C. Superhet is a wonderful receiver, way ahead with everything that's new and best in the radio industry. Its exceptionally attractive cabinet, its marvelously clear tone, its powerful reception range, all combine to give you one of the season's most luxurious table model radios at a popular price.

• **Tunes 3 Bands.** The tuning range of the Knight 7 covers three wave-bands for unusually enjoyable reception of Broadcast, Medium-Wave, and Short-Wave programs. Tunes 535 to 1720 kilocycles for all Standard Broadcast programs plus many Police calls; 7.5 to 2.2 megacycles for Police, Amateur, and domestic and foreign stations; and 24 to 7.25 megacycles for foreign Short-Wave stations. This range includes the popular new 13 meter Short-Wave sector. On each band the Knight 7 brings in stations powerfully and dependably for finer and more enjoyable radio entertainment.

• **New Pearlloid Dial.** In addition to tuning any four favorite local stations by push-button, you can cover all three wave-bands with unusual ease by means of the new Pearlloid slide-rule type dial. This tri-colored, illuminated dial (5 3/4" x 4 1/4") is built into an integrated one-piece dial-face and escutcheon such as you'll find only on more expensive radios. Dial has three separate scales, one for each wave band—each easy to tune accurately.

• **Latest Superhet Circuit.** The powerful new Superhet circuit, licensed by R.C.A., incorporates newest tube types and extra refinements. Tubes used are: 6A8G as dual-purpose Conv.-Osc.; 6K7G as I.F. Amp.; 6Q7G as Diode Det.-A.V.C.-1st Audio (triple-purpose); 6J5G as dual-purpose Phase Inv.-2nd Audio; 2-6K6G as push-pull power output; 80 as Rectifier. This tube combination gives you extra power and extra sensitivity comparing favorably with many 8 and 9 tube sets at higher prices. In addition, this fine circuit includes: full Automatic Volume Control, continuously variable Tone Control; individual coils on each wave-band; built-in connection for Television or Record Player; full 3.5 watts push-pull power output. The built-in "Air-Magnet" does away with trailing aerial and ground wires.

• **Superb Tone Quality.** A full 6-inch dynamic speaker efficiently handles the 3.5 watts output to give you better reproduction and richer tone on every program. Here is modern tonal fidelity you'll thoroughly enjoy.

• **Set Complete.** The Knight 7 is offered complete with tubes and speaker in the luxurious new table cabinet illustrated above. Choice walnut veneers, unique dual speaker grille, and unusual distinction in design make this cabinet "a thing of beauty and a joy forever." Size: 20 1/2" x 11 3/4" x 8 1/2". Set operates from 110 volts, 60 cycles A.C. Shpg. wt., 20 lbs. Code: LEDGE.

A10814.
Retail Value, \$54.50.
NET, EACH, \$26.85.
NET, LOTS OF 3, EACH.....

\$25⁹⁵

With TELEVISION CONNECTION



FEATURES:

R. C. A. LICENSED

- THREE FULL BANDS
- NEW PEARLOID DIAL
- 6" DYNAMIC SPEAKER
- FULL ACTING A.V.C.
- WITH TONE CONTROL
- 3.5 WATTS OUTPUT
- PHONO CONNECTION

With the AIR-MAGNET

Perfect reception without aerial, without ground, without trailing wires! Just plug in like any electric appliance and you're ready to play... powerfully... perfectly!

AUTOMATIC TUNING

Tune any four of your favorite stations automatically. Just press a button... and there's your program... perfectly tuned in!

• **Television Connection.** The Knight 7 is built with an eye to tomorrow... It's ready for Television when it comes. You'll simply attach the picture receiver for complete reception of Television sound and sight. Thus your new Knight 7 Tube set cannot become obsolete. When Television arrives you can continue to get many years of enjoyable service from this fine radio set. In addition, the Television connection also accommodates phono input for connecting Record Player.

Knight 6 TUBE 2 BAND A.C. SUPERHET

This 1940 Knight 6 Tube Superhet brings you powerful two-band coverage together with beauty of design and exceptionally enjoyable tone quality. Cleverly engineered to incorporate latest circuit features, the Knight 6 is offered at a price far below its real value.

• **Push-Button Tuning.** You can tune any four favorite local stations as quick as a flash merely by touching a button. Buttons are easily set from the front. Effortless 3/8" stroke and magni-glass button face add to convenience of automatic tuning. In addition, the Knight 6 includes a new 5 3/4" x 4 1/4" Pearlloid tri-colored Slide-Rule dial with separate scales for each wave band.

• **Two-Band Coverage.** Two wave-bands cover all Standard Broadcast stations, plus foreign and domestic Short-Wave stations and Police Calls. Tuning range is 535 to 1720 kilocycles and 18.1 to 5.65 megacycles. You get better, more powerful reception on both bands because the Knight 6 has been quality-engineered and built.

• **New Superhet Circuit.** A newly designed, R.C.A. licensed Superhet circuit employs latest tube types as follows: 6A8G as Conv.-Osc.; 6K7G as I.F. Amp.; 6Q7G as triple-purpose Diode Det.-A.V.C.-1st Audio; 25C6G as Power Output developing full 3 watts; 25Z6G as Volt. Doubler; 25Z6G as Rectifier. Added features: full Automatic Volume Control, continuously variable Tone Control, built-in "Air-Magnet" (no aerial or ground required), individual coils on each band, built-in connection for Television or Record Player, etc.

• **Superlative Tone Quality.** The tonal performance of the Knight 6 Tube 2 Band A.C. Superhet sets a new standard for so low-priced a 6 tube set. The full 6-inch dynamic speaker reproduces every program with richness, depth, and realism that will surprise and delight you.

• **Television Connection.** The Knight 6 is truly an up-to-the-minute receiver; has connection for Television when it comes. May also be used with any Record Player shown on pages 22 and 23.

• **Set Complete.** Presented in the lovely table cabinet illustrated and described at left, the Knight 6 Tube 2 Band A.C. Superhet is supplied complete with tubes and 6" dynamic speaker. For 110 volts, 60 cycles A.C. Shpg. wt., 17 lbs. Code: GLINT.

A10815.
Retail Value, \$39.95.
NET PRICE, EACH, \$20.95.
NET PRICE, LOTS OF 3, EACH....

\$19⁹⁵

R. C. A. LICENSED

FEATURES:

- With "Air-Magnet"
- Push-Button Tuning
- New Pearlloid Dial
- Full A.V.C. Action
- Has Tone Control
- 3 Watts Output
- Television Connection

The charming new table cabinet which houses the Knight 6 Tube 2 Band A.C. Superhet is a pleasing adaptation of the latest mode. Cabinet is beautifully built with curved speaker grille, rich walnut veneers, and contrasting inlaid walnut band at bottom. Pearlloid dial and push-button panel are integrated for more attractive appearance and greater ease of operation. Cabinet measures 18 1/4" wide, 10 1/4" high, 8 3/4" deep. A splendid product of fine cabinet craftsmanship.



Knight for 1940



Brings You Luxury Radios AT POPULAR PRICES...

The new 1940 *KNIGHT* Radios give you more for your money: more performance, more beauty, more features—at prices lower than ever!

KNIGHT Radios cost just as much to make as the most expensive sets. Into each model there have gone months of careful research, painstaking planning and designing, skillful craftsmanship and rigorous production standards—so that we might bring you the finest radios that modern science and skill can produce, at prices that set new value standards.

We ask you to check the features of any 1940 *KNIGHT* Radio. Check its tuning range, tube lineup, speaker size, features, power output, appearance—check its price against any other set in the same class—and then judge for yourself. We know you'll find more real quality, more solid value in *KNIGHT* every time! We know you'll buy *KNIGHT* every time!

And now, so certain are we that you will be thoroughly pleased with any *KNIGHT RADIO* you may buy—that the new 1940 *KNIGHT* models will bring you more brilliant performance, finer tone, more luxurious beauty, and more exclusive features—that we make the liberal Money-Back Guarantee Offer below—the fairest and squarest you could ask for.

Buy any *KNIGHT RADIO* on our regular terms. Try it out for fifteen days—give it every test for tone, power, convenience—you be the judge! We make this offer so that you can prove to yourself—what we already know—that *KNIGHT RADIOS* are 1940's best buys!

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 defects in materials and workmanship over a period of three months from date of purchase.

—ALLIED RADIO CORPORATION

READY FOR TELEVISION

When It Comes!

Most *KNIGHT* Radios for 1940 are equipped with built-in Television provision for future connection to Television attachment. The same provision also serves as Phono Connection. Here's proof that *KNIGHT* for 1940 is Tomorrow's Radio—ready for any new developments—but here—now—ready for your complete enjoyment Today!

R.C.A. & HAZELTINE
LICENSED



Knight 7 TUBE 2 BAND A.C. SUPERHET

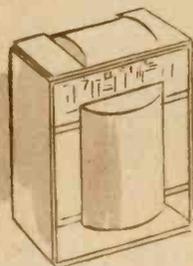
We'll back up every claim we make for this wonderful new 1940 Knight 7! You'll appreciate its exceptional combination of brilliant tone, long-distance range and practical features, the minute you see it and hear it. Just check these value-giving features:

- **Foreign Reception.** The Knight 7 offers you on two full wave bands the "cream" of the airmen. In addition to powerful enjoyable reception of all American and Canadian stations on 540-1550 K.C., the receiver tunes the most popular foreign and domestic Short-Wave programs from 5.65-18.1 M.C. This combination covers the most important and fascinating foreign and domestic channels, and brings you thrilling entertainment from everywhere.
- **Push-Button Tuning.** Tune any of six favorite stations the automatic "Feather-Touch" way. Just tip the button with your finger—and there's your program, tuned instantly, right on the head each time! It's easy to adjust, too; a child can do it in a few minutes. And manual tuning is a pleasure, too, with the large 7" x 3" Slide-Rule dial.
- **DeLuxe "Air-Magnet".** You'll welcome this wonderful new feature. Eliminates both aerial and ground; no more outside aeriels, no more trailing wires. The built-in "Air-Magnet" aerial system says goodbye to all that. There's no more installation problem. Just plug in like an electric lamp and the set's ready to play. And the built-in Electro-Static Shield means pure, undistorted tone and freedom from man-made static even in noisy locations!
- **1940 Superhet Circuit.** Built up to exacting standards—not down to a price—the Superhet circuit of the new Knight 7 incorporates the latest features developed by the great R.C.A. and Hazeltine labora-

tories. Newest tubes are used as follows: 6A7 as Conv.; 6D6 as I.F. Amp.; 75 as Det.-1st Audio; 76 as Phase Inverter; 2-41 as P.P. Output; 80 as Rect.

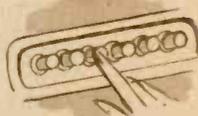
- **Television Connection.** The Knight 7 is ready for Television when it comes! Has plug-in connection for Television attachment. Same connection also serves for phono input, permitting attachment of phono player (see pages 22-23).
- **Superior Tone Quality.** The Knight 7 develops full three watts output which is beautifully handled by the large 8-inch Electro-dynamic speaker. Continuously Variable Tone Control enables you to emphasize bass or treble ranges to suit your personal tastes. The full-sized speaker, combined with a scientifically constructed resonance chamber, produces a thrilling quality of tone.
- **Additional Features.** Automatic Volume Control is incorporated to maintain uniform volume on all programs and to prevent fading; Individual coils on each band assure maximum sensitivity, etc.
- **Smart New Console.** The beautiful console of the Knight 7 is designed in the latest vogue, with inclined front panel of selected walnut veneers. Pilasters and top are executed in striking soft-roll effect. Size: 39" high, 26" wide, 12" deep.
- **Knight 7 Complete.** The Knight 7 comes complete with 8" Dynamic Speaker and tubes. For 110 volts, 60 cycles A.C. Shpg. wt., 61 lbs. Code: ADORN. A10837. Retail Value, \$62.50. **NET PRICE EACH, \$31.45.** **NET, LOTS OF 3, EACH**

WITH THE DeLuxe AIR-MAGNET



A great 1940 feature! No aerial—no ground required. Built-in "Air-Magnet" does away with outside aerial. Just plug in and play! Electro-Static Shield eliminates man-made noise and static even in noisy locations!

Push-Button TUNING



Tune any six favorite stations just by touching a button! "Feather-Touch" Push-Button Tuning is easy to adjust, right at the front; once set, it's fool-proof, precise, instant and automatic. You'll like the Push-Button way of tuning; it's effortless—just touch the button—and there's your program! There's nothing like Automatic Tuning.

\$29⁹⁵

EACH, IN LOTS OF 3



AND THESE EXTRA FEATURES

- Television Connection
- With Tone Control
- Full-Acting A.V.C.
- Big Automatic Speaker
- Giant Slide-Rule Dial
- Electro-Static Shield
- Phono Connection



The Knight 7 Console Radio is styled to appeal to discriminating tastes, yet it is priced within the reach of everyone. Incorporating every single important feature for 1940, quality-built for superior and lasting radio enjoyment, we honestly feel that the Knight 7 gives you the most for your money. Try it out on our Liberal Trial and Money-Back Guarantee (see page 11).

\$29⁹⁵

R.C.A. &
HAZELTINE
LICENSED



AIR-MAGNET

with

PUSH-BUTTON TUNING

Knight 8 TUBE 2 BAND A.C. SUPERHET

- With Electric Tuning Eye
- Has Giant Slide-Rule Dial
- Automatic Volume Control
- Television Connection
- With Tone Control
- Phono Connection

Here's a value-giving 8-Tube Receiver without a competitor! On every count, the **Knight 8** scores with the latest features to assure absolute ease of operation, powerful reception and beautiful tone. It's an exciting new model with good looks and a performing quality you can't beat anywhere at the price!

• **Built-in "Air Magnet"**. Forget about aerial and ground wires—you won't need them any more with the new built-in "Air Magnet." Does away with outside aerials and installation problems. Put the set where you want it; plug in like a lamp—and play!

• **Push-Button Tuning**. Tune any six of your favorite stations automatically just by touching a button. It's delightfully easy—and it brings your favorite programs to you in a flash—tuned right. Push-Button Tuning is easy to adjust, right from the front.

• **Giant Slide-Rule Dial**. Even manual tuning is easy with the new 7½" x 3" Slide-Rule Dial. Has separate scales for each wave band. Valuable Electric Eye incorporated affords precise visual tuning.

• **Foreign Reception**. The **Knight 8** tunes two full bands for thrilling reception. Covers 5800-18200 K.C. for all of the important Short Wave foreign, amateur and aviation channels. Tunes 540-1600 K.C. for coast-to-coast standard American and Canadian Broadcast programs. Covers all the important channels.

• **1940 Superhet Circuit**. Fully licensed by R.C.A. and Hazeltine laboratories, the **Knight 8** uses these tubes: 1—6SA7 as Mod.-Osc. (dual-purpose); 1—6SK7 as I.F.; 1—6SQ7 as Det.-A.V.C.-Audio (triple-purpose); 1—6SF5 as Phase Inverter; 2—6K6G as Power Output; 1—5Y4G as Rect.; 1—6U5 as Electric Eye. The use of dual and triple-purpose tubes achieves 10 tube efficiency.

• **Additional Features**. Ready for Television when it comes—has plug-in connection for Television attachment; same provision may be used for phono connection. Has A.V.C. uniform volume level. Tone Control permits bass or treble emphasis to personal tastes. Develops amazing power output of 6 watts which is rendered as beautiful, consistently enjoyable tone by the 6" dynamic Speaker.

• **Luxurious Table Model**. A cabinet of outstanding beauty. Fashioned of rich, selected walnut veneers with handsome roll-over top effect. Speaker grille has attractive classic design. Altogether a masterpiece of cabinet work. Size: 21" wide, 12½" high, 11" deep.

• **Knight 8 Table Model Complete**. The **Knight 8** is offered complete as illustrated above, with 6-inch Electro-dynamic speaker and tubes. For 110 volts, 50-60 cycles A.C. Sbp. wt., 36 lbs. Code: AZURE.

A10866.
Retail Value, \$54.50.
NET PRICE, EACH, \$27.45.
NET PRICE, LOTS OF 3, EACH, \$25.85

8 TUBE CONSOLE MODEL

A deluxe presentation of the **Knight 8** is the superb console model cabinet illustrated above. Finest walnut and slightly wood veneers are used throughout. Recessed and slightly tilted instrument panel is set off by curved-top pilasters and harmonious speaker grille bars. Entire cabinet is hand-rubbed to a lustrous finish. Measures: 38¼" high, 25¼" wide, and 14½" deep. Incorporated at right but has special features of table model described in detail above. Exceptionally 10" concert-dynamic speaker mounted on 540-1600 K.C. large baffle area. Tunes two full bands from 540-1600 K.C. and 5800-18200 K.C. Features: 6 watts output, full Automatic Volume Control; continuously variable Tone Control, etc., as described in detail above. Includes built-in "Air-Magnet"—no aerial or ground required; Automatic Push-Button Tuning of any 6 selected stations, Electric Eye, and full 7½" x 3" Slide-Rule dial. Complete with tubes. For operation from 110 volts, 50-60 cycles, A.C. tubes. For operation from 110 volts, 50-60 cycles, A.C. Sbp. wt., 65 lbs. Code: ACORN.

A10867, Retail Value, \$79.50.
NET PRICE, EACH, \$39.95.
YOUR NET PRICE, LOTS OF 3, EACH, \$37.95

8 TUBE CHASSIS ONLY

The **Knight 8** is also available in chassis form only, complete with 10-inch Speaker and tubes. Size: 13" x 9" x 8". For 110 volts, 50-60 cycles A.C. Sbp. wt., 23½ lbs. Code: EVENT.

A10868, Retail Value, \$42.50.
NET PRICE EACH, \$22.95.
LOTS OF 3, NET EACH, \$21.95

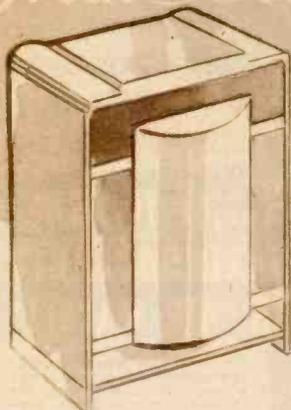


Thrilling Performance—

So beautiful in appearance, so rich in tone quality, so thrilling in performance—yet so low in price—this magnificent Knight Radio is a stirring demonstration of radio value.

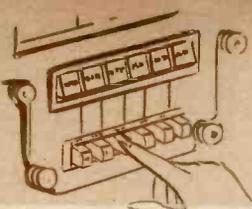


Great Beauty—OUTSTANDING FEATURES!



WITH THE DELUXE AIR-MAGNET

New built-in Super Aerial System eliminates aerial and ground wires. Absolutely no installation problem. No fuss or bother with outside aerials; no more unsightly ground wires. The "Air-Magnet" built right into the cabinet means that you just plug in the set like an electric lamp — and you're ready to play! And the Static Shield means pure, undistorted tone even in noisy locations. Overcomes man-made static and interference. Exclusive Knight 1940 feature!



TONE & TUNING BY PUSH BUTTONS

Automatic Tuning—just like a piano keyboard—is an outstanding feature of the Knight 11. 12 Push-Buttons are provided: six are used for tuning favorite stations automatically; three are for adjusting Tone Control to Bass, Treble or Medium, one is for "on" position; one is for "off" position; one is for Phono and Television connection. Here is the last word in luxurious and dependable radio reception. Another outstanding de luxe Knight feature for 1940 that brings you radio entertainment at its very best!

RCA & HAZELTINE LICENSED



Tune everything that's important on the air — all domestic stations and all the most important foreign channels!

Knight 11 TUBE 2 BAND A.C. CONSOLE SUPERHET

- HAS TELEVISION CONNECTION
- FULL 7 WATTS OUTPUT
- 12" DYNAMIC SPEAKER
- 3 GANG CONDENSER
- AUTOMATIC VOLUME CONTROL
- WITH TONE CONTROL
- WITH BASS AMPLIFIER
- PHONO CONNECTION

We know of no other console radio at this price that offers so much value! You be the judge—here's Automatic Tuning, De luxe "Air-Magnet", Electro-Static Shield, Television Connection—every important 1940 feature—at a price that's amazing! Add the promise of consistently glorious entertainment and up-to-the-minute styling—and you'll understand why we're proud of this 1940 Knight 11.

• **Amazing Automatic Tuning.** You've never before seen or operated such a radio! It's almost human in its automatic operation. You can tune any of your six favorite stations just by touching a button. It's uncanny in its speed and accuracy. And it's easy to set, foolproof and precise. Tone Control is automatically controlled, too, by Push-Buttons, one for Bass, one for Treble, and one for Medium emphasis, as personally desired. There's also button control for "on" and "off" and for Television-Phono connection. Even a child can tune the Knight 11 perfectly.

• **"Air-Magnet" and Electro-Static Shield.** Two great 1940 features! The built-in "Air-Magnet" aerial system does away forever with roof aerials and unsightly ground wires. Brings in stations powerfully from near or far; eliminates all installation problems; permits placing the console wherever desired. The Electro-Static Shield eliminates man-made static even in noisy locations.

• **Tunes Foreign Programs.** Experience the thrill of dependable Short-Wave foreign reception as well as powerful domestic-Broadcast programs. The Knight 11 tunes 5650-18100 K.C. for all important Short-Wave channels, and 540-1550 K.C. for coast-to-coast American and Canadian Broadcast programs. Manual tuning is easily accomplished by the giant 7"x3" Slide-Rule Dial. Each band is clearly indicated; important channels and station call-letters appear right on the dial for quick and easy location.

• **Brilliant New Circuit.** The very latest efficient tubes are used in the R.C.A. and Hazeltine licensed circuit of the Knight 11 as follows: 1—6A8 as Conv.; 1—6K7G as 1st I.F.; 1—6K7G as 2nd I.F.; 1—6J5G as Sig. Det.; 1—6J5G as Audio Amp.; 1—6J5G as 1st Bass Amp.; 1—6J5G as 2nd Bass Amp.; 1—6J5G as A.V.C.—Det. (dual-purpose); 2—6F6G as Power Output; 1—5Z3 as Rect. There's real teamwork in this advanced Superhet circuit; each tube contributes its full share to make the Knight 11 a marvel of power, tone beauty and matchless efficiency.

• **The Television Connection.** The Knight 11 is ready for Television when it comes! Has provision for connecting Television attachment. The same provision also serves as phono connection and accommodates the addition of a record-playing attachment to the receiver. The Knight 11 is truly—the Radio of Tomorrow—here for your complete enjoyment Today!

• **Additional Features.** Other noteworthy features of the 1940 Knight 11 include: Full Automatic Volume Control for uniform volume on all stations and freedom from fading; R.F. Preselector for added sensitivity and selectivity; rubber-floated 3-gang tuning condenser for sharper, more dependable tuning; two I.F. stages for more dependable reception on each band; "on-off" Push-Button control for convenience, etc.

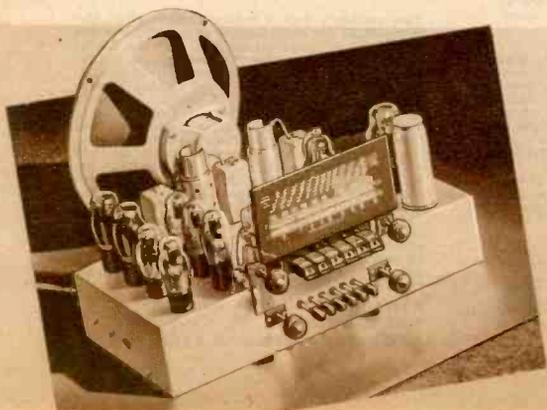
• **Glorious Tone Quality.** The Knight 11 has an amazing power output of 7 full watts. This giant volume is beautifully handled by a newly developed 12-inch Concert Dynamic Speaker, and is reflected in thrilling tone that reproduces the entire tonal register to perfection from highest treble to lowest bass. Special Bass Amplifier is built-in for added tone enjoyment. Tone Control is of the Push-Button type with Bass, Treble, and Medium positions, permitting instant choice of tonal emphasis as desired. A special Tone Chamber provides for proper acoustics and contributes immeasurably to the superior tone of the Knight 11.

• **Beautiful Console Grande.** The Knight 11 is handsomely presented in a magnificent new console in the latest 1940 vogue. Has outstanding appeal and perfect acoustical properties. Features a sloping dial panel of choice vertically-stripped walnut veneer, with curved side pilasters in rich two-tone finish. The console measures 40" high, 28" wide, 16" deep.

• **Knight 11 Complete.** The Knight 11 Superhet is offered complete in the magnificent console illustrated at the left, with 12-inch Dynamic Speaker and tubes. For operation from 110 volts, 60 cycles A.C. Shipping weight, 95 lbs. Code: SABLE.

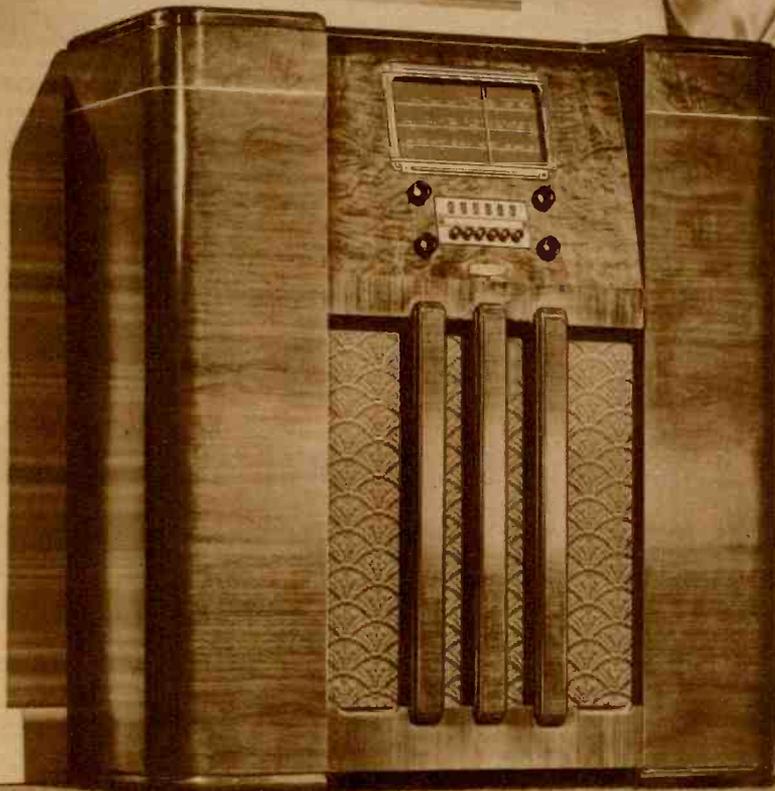
A10845.
Retail Value, \$99.95.
NET PRICE EACH, \$49.95.
YOUR PRICE, LOTS OF 3,
EACH

\$47⁴⁵



THE KNIGHT 11 GIVES YOU THE MOST FOR YOUR MONEY

We invite you to make this test: Order the Knight 11 on our regular terms and play it under your own operating conditions for a full 15 days. Enjoy its convenient, entirely automatic Push-Button control system; thrill to its luxurious reproduction of every program, both foreign and domestic; examine the rugged precision-built, over-sized chassis. And then—if you do not agree with us that it is the finest de luxe radio ever offered at so low a price—if you are not entirely satisfied that this is the radio set you have always wanted, you may return the receiver to us under our generous Trial Offer and Money-Back Guarantee (see page 11 for full details). We make this offer with full confidence that the Knight 11 will delight the most critical and exacting listener—that it will give an entirely new conception of modern radio enjoyment.



Knight 11 TUBE 3 BAND SUPERHET WITH "AIR-MAGNET"

No aerial—no ground connection required. Just plug in like a lamp—and you're ready for enjoyable radio reception, anytime, without fuss or bother.

AUTOMATIC TUNING

Tune any six of your favorite stations just by touching a button. It's easy to tune the Knight Automatic way; and it's easy to adjust, too, right from the front. Once set, it's precise, accurate, foolproof. You'll like pressing a button to get your favorite station tuned in perfectly.

- Television Connection
- Giant Slide-Rule Dial
- Full 8 Watts Output
- With Tone Control
- 3 Gang Condenser
- Bass Compensation
- Full-Acting A. V. C.
- 12" Dynamic Speaker
- Phono Connection

Here's our answer to the demand for a luxurious multi-tube console receiver at a moderate price! You can't get a greater radio value anywhere. Just compare the features, the tuning range, the tone quality, the appearance; try it out in your own home—we know you'll share our enthusiasm for this new Knight 11!

• **3 Band Range.** The Knight 11 brings you full coverage of the world's most important stations and channels. Tunes 7500 to 24000 K.C. and 2300 to 7500 K.C. for all Short Wave foreign, amateur, aviation and police channels. Covers 540 to 1720 K.C. for powerful, long-distance standard Broadcast American programs. You'll get a real thrill out of the power and reach of this "Air Giant." You'll enjoy everything of importance that's broadcast!

• **Automatic Tuning.** Tune any six of your favorite stations automatically, easily, instantly—just by touching a button. Easy to adjust; foolproof and dependable. Manual tuning is delightfully easy, too, with the giant 8"x4" Slide-Rule Dial. Each tuning range is separately indicated; has wave-band indicator; horizontal-traveling pointer moves quickly and accurately. You can't conceive of an easier or more delightful type of radio tuning!

• **Built-in "Air-Magnet."** No aerial—no ground wires—no installation problems. Outside aerial wires are gone—the new built-in "Air-Magnet" does away with all that. You just plug the set into any light socket as you do with any appliance—and you're ready for enjoyable, Broadcast band reception. It means you can place the receiver wherever you desire!

• **1940 Superhet Circuit.** The latest radio developments are incorporated in the R.C.A. and Hazeltine licensed circuit. Tubes used are: 1—6K8 as Mod.-Osc. (dual-purpose); 1—6SK7 as I.F.; 1—6H6 as Det.; 1—6CS as A.V.C.; 1—6SP5 as Phase Inverter; 1—6SF5 as Audio; 2—6C5 as Driver; 2—6K6G as Power Output; 1—5Y4G as Rect. Quality components are used throughout to bring you dependable, luxurious radio performance.

• **Outstanding "Extras."** The Knight 11 is ready for Television when it comes. Has special connection for Television sound; also serves as phono connection for use with any record player. Has Variable Tone Control for individual bass or treble emphasis to meet personal tastes; Bass Compensation is also incorporated for extra tonal pleasure. Automatic Volume Control keeps volume level uniform on all programs. Automatic tuning gives sharpest selectivity. Power output is full 8 watts, offering plenty in reserve. This power is adequately handled by a special 12-inch Concert Dynamic Speaker with high-fidelity reproducing qualities. It's a thrilling experience to listen to the tone quality of the Knight 11!

• **Console Grande.** The console of the Knight 11 is of simple but striking design. It has roll-slides of choice horizontally-grained walnut with instrument panel of selected stump walnut veneer. Simple grille bars add to the dignity of the design. The console measures 32½" wide, 35¼" high and 14¼" deep. It will enhance the finest surroundings.

• **Knight 11 Complete.** The Knight 11 Tube 3 Band Superhet is offered complete with 12-inch dynamic speaker and tubes as illustrated. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 97 lbs. Code: GLIDE.

A10870. Retail Value, \$109.50.

NET PRICE EACH, \$54.50.

NET PRICE, LOTS OF 3, EACH.....

\$51⁸⁵



11 TUBE CHASSIS

You couldn't buy a better chassis than the Knight 11 for replacement of an obsolete set or for use in your own cabinet. It's the Radio of Tomorrow—here for your enjoyment today. Just check the features: built-in "Air-Magnet," Automatic Tuning, full 3 Band Tuning Range; Television Connection; 12-inch Dynamic Speaker; 8 Watts Power Output; Continuously Variable Tone Control; Bass Compensation; full-acting Automatic Volume Control; 3 Gang Condenser; Phono Connection—every de luxe feature you can think of. Fully licensed by R.C.A. and Hazeltine. Makes a perfect replacement chassis for obsolete sets. It's a set we're proud to back with our Liberal Trial, Money-Back Guarantee. Chassis measures 16" wide, 10" deep, 9" high. Comes complete with escutcheon, push-button tuning mechanism, 12-inch Dynamic Speaker, and tubes. For 110 volts, 60 cycles A.C. Shpg. wt., 37 lbs. Code: DREAM.

A10869. Retail Value, \$69.95.

NET EACH, \$34.50.

NET PRICE, LOTS OF 3, EACH.....

\$32⁷⁵



Knight 12 TUBE A. C. SUPERHET

- WITH "AIR-MAGNET"
- TELEVISION CONNECTION
- NEW SLIDE-RULE DIAL
- FULL A. V. C. ACTION
- 12" DYNAMIC SPEAKER
- 7½ WATTS OUTPUT

THE LAST WORD IN LUXURIOUS WORLD-WIDE RADIO ENTERTAINMENT



We proudly offer this 1940 Radio Masterpiece for the consideration of those who appreciate perfect musical reproduction and powerful long-distance reception—and for those who want the most radio for their money. Here you will find every new and advantageous radio feature, coupled with quality you can't beat and appearance you'll always be proud of.

- **Tunes 3 Full Bands.** The Knight 12 tunes three full wave bands: 18.3-5.65 Megacycles, and 5650-1710 Kilocycles for consistently dependable Short Wave foreign, amateur, police and aviation signals; and 535-1720 K.C. for powerful American and Canadian standard Broadcasts. Tunes everything of importance that's broadcast on the air today!
- **Push-Button Tuning.** Tune any six of your favorite stations just by touching a button. It's easy to adjust, right from the front, and thereafter it's foolproof and precise. You just touch a button and there's your station! Regular manual tuning is child's play, too, with the new giant 8½"x4" Slide-Rule Dial with separate scales for each band. Calibrated clearly in kilocycles for standard Broadcast and in megacycles for Short Wave.
- **Built-In "Air-Magnet."** Forget all about aerial and ground wires. There's no installation problem at all. With the built-in "Air-Magnet" aerial system, you do away with aerial and ground. Just plug in like any electrical appliance, and you're all set to enjoy strong, dependable reception. No more outside aerial—no more trailing wires to fuss with!
- **All These Features.** Just check these "extra-value" features in the Knight 12. It's ready for Television when it comes; has connection for Television attachment; connection also serves to accommodate phonograph player attachment. Has continuously variable Tone Control for bass or treble emphasis as desired; includes Bass Booster for added tonal enjoyment. Automatic Volume Control prevents fading and assures uniform volume on all programs. Three Gang Condenser means added stability and sensitivity; separate coils on each band guarantee dependable results on each tuning range. Full 7½ watts output is developed and is largely responsible for the wonderful tonal quality reproduced by the 12-inch Concert Dynamic Speaker. You'll welcome and appreciate these "extra-value" features.
- **Advanced Superhet.** The following tubes are used in the perfected 1940 R.C.A. licensed circuit: 6A8GT as Conv.; 76 as Osc.; 6SK7 as I.F.; 76 as Signal Diode; 76 as A.V.C. Diode; 76 as 1st Audio; 76 as 2nd Audio; 76 as Phase Inverter or audio; 76 as Bass Boost; 2—6F6G as Push-Pull Power Output; 80 as Rectifier.

• **Rich, Golden Tone.** Superb tone is the outstanding characteristic of the Knight 12. It is achieved by the magnificent full 7½ watt output of the receiver which is beautifully handled by the 12-inch Dynamic Speaker. This splendid quality of tone is further enhanced by the continuously variable Tone Control and built-in Bass Boost Amplifier.

• **Magnificent Console.** Here's a superb console that will rank with 1940's finest. Massively designed; has sloped instrument panel of choice stump walnut veneer; sides are gracefully rolled and are fashioned of contrastingly grained walnut veneers. Size: 30" wide, 37" high, 14" deep. A fine example of cabinet craftsmanship you will be proud of.

• **Knight 12 Complete.** The Knight 12 is offered complete in console as illustrated with 12" speaker and tubes. For 110 volts, 60 cycles A.C. operation. Shpg. wt., 95 lbs. Code: ROYAL. An outstanding 1940 3-Band Console Radio value!

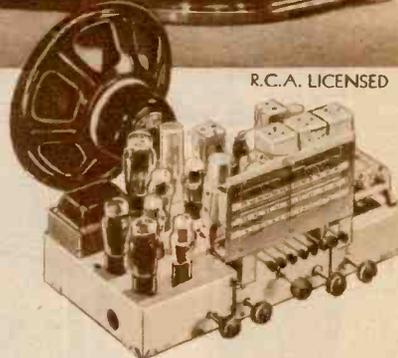
A10820. Retail Value, \$114.50.

NET EACH, \$56.85.

NET PRICE, LOTS OF 3, EACH.....

\$53⁹⁵

R.C.A. LICENSED



12 TUBE CHASSIS

The chassis model of the Knight 12 makes an especially desirable replacement for obsolete sets or for your own console. Incorporates all of the fine features described at left. Built to meet 1940's demands for peak radio performance, power and tone at a moderate price, it will give brilliant, dependable performance for years to come. Features include: built-in "Air-Magnet," Automatic Tuning, 3 Band Range, Television Connection, Slide-Rule Dial, 12" Dynamic Speaker; 7½ Watts Output, Phono Connection, Automatic Volume Control, Tone Control, Bass Boost, 3 Gang Condenser, etc. Here's a chassis we're confident of, and proud to back with our Free Trial Money-Back Guarantee! Licensed by R.C.A.—your assurance of the newest developments and tested refinements. Every feature included is an advantageous one, making for greater radio enjoyment, no matter what program you tune. A really wonderful chassis value. Chassis measures: 17"x9½"x9¼". Comes complete with es-cutcheon, 12" Dynamic Speaker and tubes. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 35 lbs. Code: SATIN.

A10821. Retail Value, \$74.50.

NET PRICE EACH, \$37.85.

NET, LOTS OF 3, EACH. **\$35⁸⁵**

Beautiful New PHONOGRAPH-RADIOS

RCA
LICENSED



5 TUBE PHONO-RADIO

This new Knight 5 Tube Phono-Radio incorporates a remarkably efficient 1940 Superhet Radio Receiver with high-quality phonograph components to produce a combination of top-quality radio reception and rich, clear reproduction of phonograph recordings.

- **Brilliant Phono Reproduction.** We have incorporated the finest phonograph equipment into this new Knight 5. The phono portion uses the latest 110-120 Volt 60 cycle steady 78 R.P.M. motor with rubber-cushioned rim-drive for noiseless operation. Has Astatic Crystal pickup on tangent head insuring exceptionally clear, tonal quality. Will play 10" and 12" records with cabinet lid closed.
- **Exceptional Radio Circuit.** The powerful new circuit of the Knight 5 is fully licensed by R.C.A.; uses the following tubes: 12A8GT as Conv.-Osc. (dual-purpose); 12K7GT as I.F. Amp.; 12Q7GT as Diode Det.-A.V.C.-1st Audio (triple-purpose); 35L6GT as Power Output; 35Z5GT as Rectifier. Has full-acting A.V.C. to maintain uniform volume on all programs. Radio has an extended tuning range from 535 to 1720 K.C. and includes the popular 1712 K.C. police channel. Has square full-vision Pearloid airplane dial. A heavy-duty 5-inch Dynamic speaker handles the 2 watts output with amazing fidelity.
- **Built-in "Air-Magnet."** An outstanding new feature! "Air-Magnet" which is built into the receiver eliminates the need for bothersome outside aerial and ground wires. Just plug in like any electric appliance—and play!
- **Handsome Cabinet Styling.** The Knight 5 cabinet is made of choice selected walnut veneers finished in a high lustre. Has dual speaker grille effect with roll-over design. Lid closes flush for beautiful effect. 14 $\frac{1}{2}$ " x 14 $\frac{1}{2}$ " x 9".
- **5 Tube Combination Complete.** The Knight 5 Tube AC Phono-Radio is offered complete in cabinet as described. For operation from 110-120 Volts, 60 cycles, A.C. Shipping weight, 32 lbs. Code: WALTZ.

A10816, Retail Value, \$42.50.

NET PRICE EACH, \$22.95.

YOUR PRICE, LOTS OF 3, EACH...

\$21⁸⁵

RCA & HAZELTINE
LICENSED



Knight 7 TUBE PHONOGRAPH-RADIO

A distinctive new 1940 musical instrument that provides Complete Home Entertainment. Brings you the dual enjoyment of powerful Two-Band Radio Reception and flawless reproduction of Phonograph Records. Remarkably low-priced, but a de luxe instrument in every detail.

- **Foreign Reception.** The Knight 7 tunes two full bands to bring you the world's most important stations. Covers 5650-18100 K.C. for thrilling Short Wave foreign, amateur and aviation reception (includes the most popular foreign channels); tunes 540-1550 K.C. for all standard American Broadcast reception.
- **Push-Button Tuning.** Tune any six favorite stations just by touching a button. Easy to adjust; absolutely precise and foolproof. Manual tuning is child's-play, too, with the big 7" x 3" Slide-Rule Dial with individual bands.
- **De Luxe "Air-Magnet."** Say goodbye to outside aerial, ground, and unsightly wires. The Knight 7 has the new de luxe "Air-Magnet" built-in. No aerial, no ground needed; just plug in and play. Also incorporates the remarkable Electro-Static Shield which reduces static and distortion.
- **1940 Superhet Circuit.** Fully licensed by R.C.A. and Hazeltine. Uses: 6A7 as Conv.; 6D6 as I.F.; 75 as Det.-A.V.C. (dual-purpose); 76 as Phase Inv.; 2-41 as Push-pull Output; 80 as Rect. Features include: 3 Watts power output; Continuously Variable Tone Control; full-acting A.V.C.; individual coils on each band; Television Connection; 12" Dynamic Speaker in acoustical chamber, etc.
- **De Luxe Phonograph Equipment.** For luxurious phonograph record reproduction, only the finest phonograph components are employed. Includes a new type silent-running rim-driven 78 R.P.M. phono-motor, self-starting and dependable; has high quality Astatic Crystal pickup.
- **Beautiful Tone Quality.** The new full 12-inch Concert Dynamic Speaker used in the Knight 7 is housed in a scientifically constructed resonance chamber and reproduces both phonograph and radio with rich, full-bodied tone that is absolutely natural. Continuously Variable Tone Control adds greatly to tonal enjoyment by permitting bass or treble emphasis to personal tastes.
- **Luxurious Console Grande.** The Knight 7 is built into a splendid new console cabinet of outstanding beauty. Front panel is of select stump walnut veneers with roll-over effect side plasters in contrasting grained walnut. Grille area has pleasing posts. The entire cabinet is meticulously finished to a high lustre. Size: 36" wide, 36" high, 17" deep. Top has hinged lid for easy access to radio and phonograph.
- **The Knight 7 Phono-Radio** is presented complete with tubes as illustrated and described. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 92 lbs. Code: BARON.

A10844.
Retail Value, \$84.50.

NET PRICE EACH, \$42.85.

YOUR PRICE, LOTS OF 3, EACH...

\$39⁹⁵

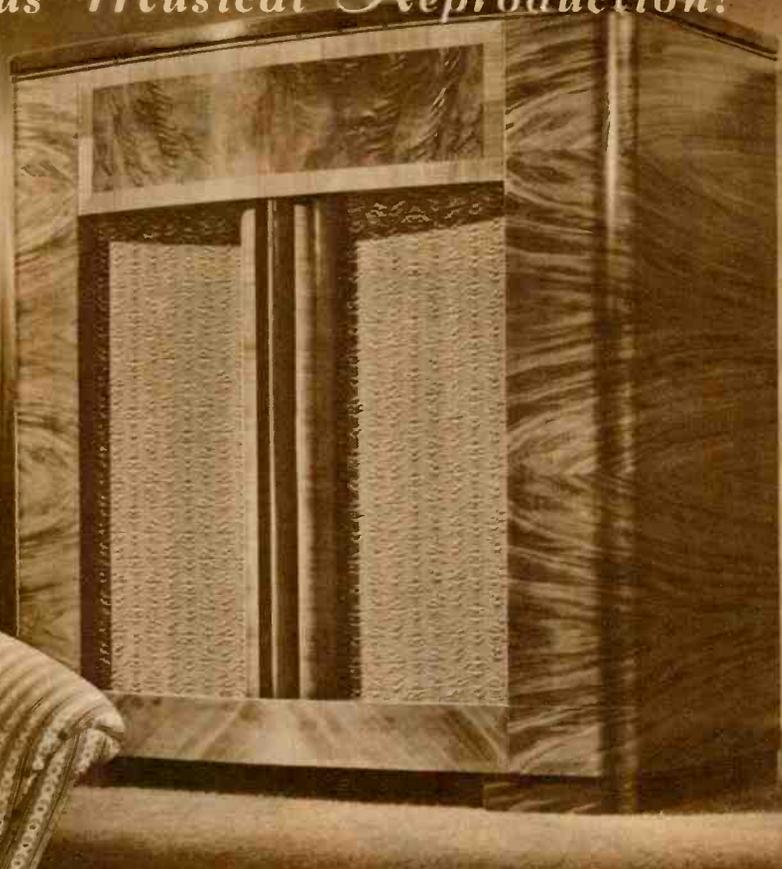
With

"AIR-MAGNET"

and AUTOMATIC TUNING

For Glorious Musical Reproduction!

With R.C.A.
**AUTOMATIC
RECORD CHANGER**



Knight 11 TUBE PHONOGRAPH-RADIO

- Foreign Programs
- Button Tone Control
- Slide-Rule Dial
- With Bass Amplifier

For those who appreciate the luxurious full tone of fine recordings flawlessly reproduced; for those who desire the convenience of Automatic Record Changing; for those who want the finest in a world-tuning Push-Button Radio Receiver, we recommend this luxurious new **Knight 11** Phonograph-Radio instrument. Radio engineers, musical experts and cabinet craftsmen have combined their efforts splendidly to produce what we believe is America's finest home entertainment instrument. Consider these superb features:

• **Foreign Reception.** The **Knight 11** incorporates an entirely new Superhet receiver built for powerful reception on two full bands. Tunes 5650-18100 K.C. for strong and thrilling reception of Short Wave foreign, amateur and aviation programs. Covers the important and exciting 16, 19, 29, 31 and 49 meter foreign channels. Tunes 540-1550 K.C. for coast-to-coast regular American and Canadian Broadcast.

• **De Luxe "Air-Magnet."** A wonderful new feature—built right into the **Knight 11** console. Eliminates all aerial and ground wires—does away with outside aerial. You can place the **Knight 11** wherever you desire. To play, you just plug in like a lamp or any other electrical appliance! Exclusive new Electro-Static Shield is coupled with the "Air-Magnet" to reduce man-made static even in noisy locations.

• **Push-Button Tuning.** An ingenious new Automatic Push-Button Control System makes the **Knight 11** amazingly easy to operate. Six buttons may be set for automatic tuning of any of your favorite stations; three buttons are for Tone Control; one button is for "on" position, another for "off" position, and the last is for Television Connection or Phono switching. You'll like this new system of Keyboard Control. And you'll like the giant 7"x3" Slide-Rule Dial, too; it's perfect for easy regular manual tuning.

• **1940 Circuit Features.** A new R.C.A. and Hazeltine licensed circuit incorporates latest tube types: 6AB8 as Conv., 6K7G as 1st I.F., 6K7G as 2nd I.F., 6J5G as Sig. Det., 6J5G as Audio Amp., 6J5G as 1st Bass Amp., 6J5G as 2nd Bass

- Ready For Television
- Full 7 Watts Output
- Full-Acting A.V.C.
- 12" Dynamic Speaker

Amp., 6J5G as A.V.C.-Det., 2-6R6G as Power Output, 5Z3 as Rect. The tremendous push-pull output stage develops full 7 watts power. Other features include: 12" concert-size Dynamic Speaker; Bass Amplifier; Provision for Television Attachment; Full Automatic Volume Control; 3-Gang Condenser; R.F. Preselector Stage; Separate Coils on each band; Acoustic Chamber; rubber-floated chassis, and highest quality components throughout.

• **De Luxe R.C.A. Changer.** For luxurious convenience, the **Knight 11** includes the newest genuine gentle-action R.C.A. Record Changer. Plays eight 10-inch records or seven 12-inch records automatically; has record reject lever and facilities for playing all records manually. Includes new top-loading R.C.A. Crystal pickup with offset needle angle for proper record tracking. Heavy-duty 78 R.P.M. motor maintains constant speed. Absolutely precise and foolproof.

• **Magnificent Tone Quality.** Whether you listen to Radio or Records, you will thrill to full-bodied tone that is as rich and lifelike as the original. The secret lies in the giant output handled beautifully by a 12-inch Super-dynamic speaker housed in a scientifically designed acoustic chamber. And Push-Button Tone Control offering choice of Treble, Bass and Medium, adds greatly to your personal enjoyment.

• **De Luxe Console.** The **Knight 11** is built into a new console of distinguished beauty. The softly-curved front and sides are of select walnut veneers, with beautiful inlay trims on front panel. Has gentle-action hinged lid. The entire console is hand-rubbed to a high, lustrous finish. Designed in the very best taste. Measures 36" wide, 36" high, and 18" deep.

• **The Knight 11 Phono-Radio** is offered complete as illustrated and described. With tubes. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 165 lbs. Code: EXCEL.

A1084G.
Retail Value, \$167.50.
NET EACH, \$83.50.
YOUR PRICE,
LOTS OF 3, EACH.....

\$79⁵⁰

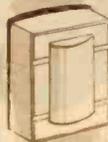
RCA & HAZELTINE LICENSED



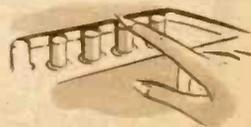
R.C.A. RECORD CHANGER

Enjoy the luxury and convenience of Automatic Record Changing. Here is the latest and finest de luxe R.C.A. Changer to add to your enjoyment. Plays eight 10-inch or seven 12-inch records automatically. One loading of twelve inch records will give you a solid half-hour of wonderful entertainment without moving from your chair.

"AIR-MAGNET"



With de luxe "Air-Magnet" — no aerial or ground required. Just plug in like any appliance and play! Also has Electro-Static Shield — eliminates noise and static.



AUTOMATIC TUNING

"Feather-Touch" Push-Button Tuning of any of your six favorite stations—also push-button Tone Control—just like a piano keyboard—brings you added convenience and enjoyment!



R. C. A. & HAZELTINE
LICENSED

Knight 6 TUBE PHONOGRAPH RADIO MODEL

- Built-in Aerial
- Big Airplane Dial
- Has Electric Eye
- 3.5 Watts Output
- 8" Dynamic Speaker
- Full A.V.C. Action
- With Crystal Pickup

\$37⁹⁵

EACH, IN
LOTS of 3

Here is a really unusual value in a Knight 6 Tube Phonograph-Radio housed in a big console cabinet and offered at a startling low price, a price, in fact, which ordinarily would buy only a table model radio. Dependable radio reception, excellent phonograph reproduction, and very enjoyable tone are outstanding characteristics of this new model. You'll look far and wide before you find a comparably-priced instrument with all these features:

- **New 4-Inch Airplane Dial.** Here is a big new full-vision Airplane dial, clearly calibrated in both meters and kilocycles—always easy to read and easy to tune. Range covers 540 to 1720 kilocycles for strong reception of all Standard Broadcast programs plus the popular 1712 K.C. Police Calls. Electric Eye, conveniently located directly above the dial, shows you instantly when stations are perfectly in tune.
- **Latest Superhet Circuit.** The radio portion of the Knight 6 Tube Combination is built around a new R.C.A. and Hazeltine licensed Superhet circuit which employs efficient new tube types as follows: 6SA7 as dual-purpose Mod.-Osc.; 6SK7 as I.F. Amp.; 6SQ7 as triple-purpose Diode Det.-A.V.C.-1st Audio; 6F6G as Power Output; 5Y4G as Rectifier; 6U5 Electric Eye. A full 3.5 watts output gives you plenty of power for enjoyable reproduction of both radio and recorded music.
- **Built-in Aerial.** Other circuit features include a new built-in aerial of the latest line-connected type, which dispenses with troublesome antenna and ground wires and provides strong signal pickup; full Automatic Volume Control to maintain steady volume level; has smooth switch for easy change from radio to phono as desired; illuminated dial adds to tuning convenience; rubber-mounted tuning condenser for extra stability, etc.
- **Fine Phono Equipment.** For enjoyable reproduction of all standard 10 and 12-inch phonograph records, the Knight 6 is equipped with the newest record-playing assembly. A dependably built, constant-speed 78 R.P.M. synchronous motor is combined with a new Crystal pickup to assure quiet operation and full-range reproduction.
- **Beautiful Tone Quality.** The latest 8-inch Dynamic speaker is used in the Knight 6. Tone quality—whether radio or phono is being operated—is always delightfully mellow and rich. Each note—from radio or record—is faithfully and clearly reproduced.
- **Handsome New Console.** The Knight 6 Tube Radio-Phonograph is presented in an exceptionally handsome new console cabinet measuring 35½" high, 28" wide, and 15¾" deep. Striped walnut woods on front and sides, richly grained instrument panel, and four shaped grille bars form a tasteful, harmonious design. Instrument panel is sloped slightly for greater convenience in tuning. Hinged lid gives access to phono.
- **Set Complete.** The new Knight 6 Tube Phonograph-Radio is supplied complete with tubes in console cabinet as illustrated above. For operation from 110 volts, 60 cycles, A.C. Shpg. wt., 68 lbs. Code: NOVEL.

A10876.
Retail Value, \$79.95.
NET PRICE, EACH, \$39.95.
NET PRICE, LOTS OF 3, EACH.....

\$37⁹⁵



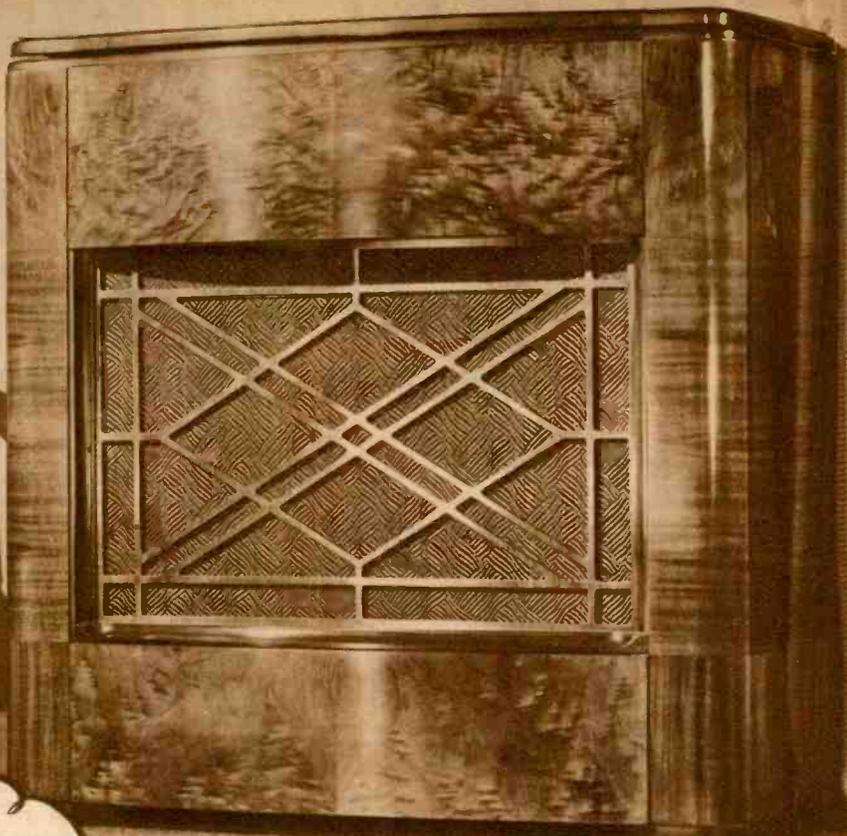
5 TUBE TABLE MODEL

Here, in the table model cabinet illustrated, is a popular-priced 5 Tube Radio-Phonograph incorporating most of the features of the Console model described at right. Includes Superhet circuit with tubes functioning as described at right (but less Electric Eye); Automatic Volume Control; 3.5 Watts Output; built-in Antenna of the new line-connected type; Phono has quiet, dependable synchronous motor and Crystal pickup. Supplied in very attractive table cabinet; size: 11" high, 14½" wide, 14" deep (plays 12" records with lid closed). Rounded corners, grille bar overlays, and beaded base form an unusually handsome design.

• **Set Complete.** The Knight 5 Tube Table Model Radio-Phonograph complete with tubes, for operation from 110 volts, 60 cycles A.C. Shpg. wt., 27 lbs. Code: SERVE.

\$28⁴⁵

A10875.
Retail Value, \$59.95.
NET PRICE, EACH, \$29.95.
NET PRICE, LOTS OF 3, EACH.....



11 TUBE
Deluxe Model

**3 BAND WORLD-WIDE
PHONO-RADIO**

Truly a deluxe musical instrument in absolutely every respect, this marvelous new **Knight 11 Tube 3 Band Phonograph-Radio Combination** is a masterpiece of engineering and craftsmanship. For magnificent reproduction of all phonograph records as well as for superlative world-wide radio reception, this wonderful creation is unsurpassed. Here is a true luxury radio for which you would ordinarily expect to pay as much as \$250.00, yet it is offered at a surprisingly low price. Here is, indeed, a triumph of artistic, musical, and scientific ingenuity.

• **World-Wide Radio Reception.** The **Knight 11** incorporates a new Superheterodyne receiver built for powerful world-wide reception on three full wave-bands from 540 to 1720 kilocycles, 2.3 to 7.5 megacycles, and 7.5 to 24 megacycles. This splendid range covers all Standard Broadcast American and Canadian programs, as well as Short Wave domestic and foreign stations, Police Calls, Amateurs, and Airplanes. Here is the whole range of modern radio at your finger-tips. The new built-in "Air-Magnet" does away with trailing antenna and ground wires and yet provides remarkably fine Broadcast band signal pickup.

• **Automatic Push-Button Tuning.** You can tune six of your favorite local stations automatically at the mere pressing of a button. Six buttons are provided which may easily be adjusted to tune any desired stations. In addition to Automatic Tuning, the **Knight 11** incorporates a big straight-line Slide-Rule dial with a separate scale for each wave band. Popular foreign channels are clearly indicated on Short Wave sector.

• **Additional Circuit Features.** An unusually powerful R.C.A. and Hazeltine licensed Super-circuit employs the latest, most efficient tubes as follows: 6K8 as Mod.-Osc.; 6SK7 as I. F. Amp.; 6H6 as Det.; 6SF5 as Audio; 6C5 as A.V.C.; 2-6K6C as Power Output; 2-6C5 as Drivers; 6SF5 as Phase Inv.; 5Y4G as Rectifier. A mighty undistorted output of full 8 watts provides wonderful reserve power for all requirements. Other deluxe features include: 12-inch Dynamic concert-size speaker; Bass Compensation and Bass Booster; Preselector Stage; Full Automatic Volume Control; continuously variable Tone Control; heavy-duty 3-gang rubber-mounted condenser; Wave-band Indicator. Built-in Television Connection enables you to attach Television Picture receiver when Television reaches your community. In every detail the **Knight 11** has been designed and built to give you wonderful radio and phonograph performance.

• **Deluxe Record-Playing Components.** For glorious, full-voiced reproduction of all recordings, the **Knight 11** includes a new wide-range, top-loading R.C.A. Crystal pickup and a genuine R.C.A. automatic record changer of the latest type. You can load up the automatic record changer with either eight 10- or seven 12-inch records and sit back to enjoy more than half an hour of recorded music without leaving your favorite chair.

• **Gorgeous Console Cabinet.** The **Knight 11 Tube Radio-Phonograph** is built into a luxurious console of breath-taking beauty. Finest walnut woods are used throughout. Features rounded corners, Chippendale grille design, and gentle-action hinged lid. Size: 35½" wide, 35" high, 17¾" deep. Has drawer at bottom to hold records and albums. The connoisseur of fine musical instruments, the lover of beauty and music, will endorse the **Knight 11**.

• **Set Complete.** **Knight 11 Tube 3 Band Radio-Phonograph** for operation from 110 volts, 60 cycles, A.C. Complete with tubes, automatic record changer, etc.
Ships wt., 185 lbs. Code: HONOR.
A10877, Retail Value, \$250.00.
NET PRICE, EACH.....

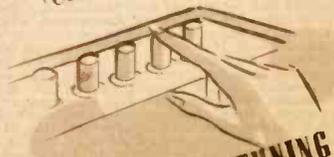
\$12750



R. C. A. RECORD CHANGER



With "AIR-MAGNET"



PUSH-BUTTON TUNING



Knight 5 TUBE PHONO-RADIO

Here is a new double-duty musical instrument that brings you—at a price far below what you would expect to pay—the joy of splendid radio reception plus superb reproduction of all phonograph records. This new Knight 5 Tube Phono-Radio combination has been designed to meet the demands of music lovers who want high-quality performance at low cost.

- **R.C.A. and Hazeltine Licensed Circuit.** An efficient new circuit, fully licensed by the famous R.C.A. and Hazeltine laboratories incorporates latest radio developments. The Knight 5 tunes 535 to 1730 kilocycles for enjoyable reception of all standard Broadcast American or Canadian programs as well as upper channel Police calls. Latest tubes are used as follows: 6A7 as Conv.-Osc. (dual-purpose); 6D6 as I.F. Amp.; 75 as Det.-A.V.C.-1st Audio (triple-purpose); 25L6G as Output; 25Z5 as Rectifier, and L49B as ballast.
- **Latest Phono Equipment.** All standard 10-inch and 12-inch records are played electrically and are beautifully reproduced through the capable amplifying system. Uses new Crystal Pickup and constant speed Phono motor. All records may be played with the lid closed. A newly developed five-inch Dynamic speaker provides for amazingly rich tone quality on both radio or record reproduction.
- **New Built-in "Air-Magnet."** This exclusive new feature, built right into the cabinet, eliminates the annoyance of trailing aerial and ground wires. Other special features of the Knight 5 include: Full Automatic Volume Control for maintenance of constant volume level, and convenient phono-radio switch.
- **Set Complete.** The Knight 5 Tube Phono-Radio is supplied complete with tubes in a handsome cabinet measuring 14½" x 10½" x 14¾". Of horizontally grained walnut with two-tone trim and attractive louvre grille. For operation from 110 volts, 60 cycles A.C. (Radio only may also be operated from 110 Volts D.C.). Shpg. wt. 19 lbs. Code: CORAL.

A10841. Retail Value, \$39.95.
NET PRICE, EACH, \$20.95.
LOTS OF 3, NET EACH

\$19⁹⁵

5 TUBE PORTABLE PHONO-RADIO

This new double-purpose instrument is so cleverly designed, so versatile, and so easily portable, that you can't help saying, "Why didn't someone think of this before?" And, yet, with all of its splendid features, the Knight 5 Tube Portable Phono-Radio is priced amazingly low.

- **Radio or Records at the Flick of a Switch.** The new Knight Portable Phono-Radio offers remarkable reproduction of both phonograph records and all standard Broadcast stations as well as many Police calls. New R.C.A. and Hazeltine licensed circuit employs latest tube types: 6A7 as Conv.-Osc.; 6D6 as I.F. Amp.; 75 as Det.-A.V.C.-1st Audio; 25L6G as Audio Output; 25Z5 as Rectifier; L49B ballast.
- **Latest Phono Equipment.** A new crystal pickup and a powerful, silent-operating 78 R.P.M. motor provide for unusually life-like and enjoyable reproduction of all 10-inch or 12-inch phonograph records. Convenient record compartment built into the lid will accommodate up to six 10-inch records.
- **Sparkling Tone Quality.** A specially designed five-inch Dynamic speaker handles all programs with remarkable efficiency and provides unusually enjoyable tone quality from radio or phonograph.
- **Built-in "Air-Magnet."** This versatile instrument is really portable! Built into its case is the marvelous new "Air-Magnet" which does away with trailing aerial and ground wires. The Knight 5 is ready to play the instant you plug it in.
- **Deluxe Carrying Case.** The Knight 5 is presented in a new fabricoid-covered carrying case which is beautiful to look at, and unusually sturdy and durable. Case measures 14½" wide, 14¾" deep, 10¼" high.
- **Set Complete.** The Knight 5 Tube Portable Phono-Radio—the ideal companion for summer trips, cottages, school dormitories, and the house-parties—is supplied complete with tubes. For operation from 110 Volts, 60 cycles A.C. Shpg. wt. 25 lbs. Code: FIELD.

A10842. Retail Value, \$42.50.
NET EACH, \$22.95.
LOTS OF 3, EACH

\$21⁹⁵



RCA "WIRELESS" RECORD PLAYER

R.C.A.-Victor's newest achievement—this Wireless Record Player Model VA-20 plays phonograph records through any radio set without connection. May be operated at a distance up to 30-50 feet from radio, and plays all 10-inch your radio set. • **Use It Anywhere.** Plugs into any 110 Volt, 60 cycle, A.C. outlet and may be placed on any convenient end table, book-case, or on radio cabinet, if desired. Includes newest features for fine phonograph entertainment: Feather-touch R.C.A. Crystal Pickup with pilot light and true-tracking tone arm; new modulation type volume control combined with on-off switch; R.C.A. constant-speed 78 R.P.M. synchronous type motor. • **Works With Any Set.** Has frequency adjustment which makes it possible to select "dead" point on radio dial where the phonograph is to be heard, but does not interfere with regular operation of radio whenever desired. Operates with any radio set, regardless of its age or model. Supplied in beautiful new rich brown Bakelite cabinet in functional modern design. Dimensions: 5" high, 12½" wide, 8¾" deep. Shpg. wt., 13 lbs. For operation from 110 volts, 60 cycles A.C. A remarkable value in a high-quality player.

A10067. R.C.A.-Victor Model VA-20 Wireless Player.
Retail Value, \$17.95.
22 YOUR NET PRICE

\$11⁴⁴

RCA LOW-COST WIRED PLAYER

This popular R.C.A. Model R-93F Wired Record Player makes friends wherever it goes. It enables you, at very low cost, to turn your radio receiver into a radio-phonograph combination. It's a real achievement—priced pleasingly low—and is unusually attractive and practical. • **Attractive Bakelite Case.** A compact bakelite case (11" x 9" x 5") houses the efficient A.C. phono motor and pickup. Motor maintains constant 78 R.P.M. speed, 6" manually started turntable handles all records up to full 12" size. R.C.A. feather-touch Crystal Pickup with true-tracking tone arm brings every note out of the record grooves. Pickup is easily tilted for needle insertion. Combination on-off switch and volume control is mounted on top face. • **Connects to any set.** The R-93F is easily connected to any radio receiver operating from 110 volts, 60 cycles, A.C. All records are beautifully reproduced through radio amplifying system with the full tone and volume of your set. For 110 V., 60 cycles A.C. Shpg. wt., 12 lbs.

A10066. R.C.A.-Victor Model R-93F Player.
NET PRICE, EACH

\$5⁶⁵

A7594. Switch and cable for connecting above Record Player to any A.C. radio set. NET

59c

**Knight
PLAYERS**



Deluxe "WIRELESS" Model

Low Cost "WIRELESS" Player

This new deluxe Knight "Wireless" Record Player will give you splendid phonograph record reproduction when used with any radio. Requires absolutely no connection to radio set. May be placed anywhere in the room and will reproduce all records through radio set amplifying system. Incorporates latest Deluxe features including self-starting 78 R.P.M. motor; offset head Crystal pickup of highest quality; full 9-inch turntable to accommodate all 10- or 12-inch records; two needle cups; automatic stop. Equipped with input jack for plugging in home microphone if desired. The Knight Deluxe "Wireless" Player is presented in the beautiful roll-top walnut case illustrated above. Lid closes over all records, including 12-inch size, to reduce surface noise and add to your enjoyment. Case measures: 13 1/4" wide, 10 1/4" deep, 7" high. For operation from 110 volts, 60 cycles, A.C. Shpg. wt., 12 lbs.

A10057, Knight Deluxe "Wireless" Player.
NET EACH, \$15.95
NET, LOTS OF 3, EACH

\$15.25

Here's a real radio miracle—a new Knight "Wireless" Record Player at exceptionally low cost. Requires no connection to radio, but plays all records through radio amplifying system with full tone and volume regularly obtained from radio. The Knight "Wireless" Record Player operates perfectly with any A.C. set. May be used as far as 50 feet from receiver. Will not interfere with your regular operation of radio when Record Player is not in use. Includes latest features for fine reproduction of all 10- and 12-inch recordings. Has new 78 R.P.M. phono motor; offset head Crystal pickup; needle cup; automatic stop; 9-inch turntable. Equipped with connection for plugging in home microphone. Presented in a very attractive walnut-finished case as illustrated above. Case has graceful roll-top design. Dimensions: 12" wide, 10 1/4" deep, 4 1/4" high. For 110 volts, 60 cycles, A.C. Shpg. wt., 10 lbs.

A10998, Knight Low-Cost "Wireless" Player.
NET EACH, \$11.35
NET, LOTS OF 3, EACH

\$10.95

Deluxe WIRED PLAYER

Low Cost WIRED PLAYER

In the same cabinet illustrated above, we also offer the Knight Deluxe Record Player as a wired model for connection to any radio set. Plays all recordings through the radio set amplifying system with the full tone and volume ordinarily obtained from your radio. Deluxe features include: constant-speed 78 R.P.M. rim-driven motor; new offset-head Crystal pickup; 9-inch turntable for all standard 10- and 12-inch recordings; combination on-off switch and volume control; two needle cups; automatic stop. Supplied in walnut case with lid that closes over all records, exactly as described for model above. This deluxe Knight Record Player will add to the utility of your radio set and will give you hours of delightful entertainment. For operation from 110 volts, 60 cycles, A.C. Shpg. wt., 12 lbs.

A10050, Knight Deluxe Wired Record Player.
NET EACH, \$11.35
NET, LOTS OF 3, EACH

\$10.95

An alternate choice in a fine new low-cost Knight Record Player, similar to the model above, but designed for direct connection to any A.C.-operated radio set. Includes such desirable features as: constant-speed 78 R.P.M. rim-driven motor; offset-head Crystal pickup; 9-inch turntable to hold all 10- or 12-inch records; combination on-off switch and volume control; built-in needle cup; automatic stop, etc. This attractively-priced Record Player will give you hours of delightful entertainment. It will open to you the whole vast library of recorded entertainment by your favorite artists. Supplied complete in attractive walnut finished case as illustrated above. Case measures: 12" wide, 10 1/4" deep, 4 1/4" high. For operation from 110 volts, 60 cycles, A.C. Shpg. wt., 10 lbs.

A10997, Knight Low-Cost Wired Record Player.
NET EACH, \$8.10
NET, LOTS OF 3, EACH

\$7.65



LOW-COST PORTABLE PLAYER

NEW 1.4 VOLT PORTABLE PHONO-RADIO

This fine quality portable record player will bring you hour after hour of fine entertainment. It may quickly and easily be attached to any radio set or amplifier to provide brilliant reproduction of all 10- and 12-inch standard phonograph records. The sturdy, self-starting 78 R.P.M. motor maintains constant speed and runs evenly without wavering. The high-quality magnetic pickup has unusually wide tonal response and brings out all that has been put into the record grooves. Other features include smooth-acting volume control, pickup arm rest, and built-in needle-cup. These features assure you of convenience in operation and of splendid record reproduction. The entire unit is built into an attractive leatherette-finished case with hinged lid. Lid closes over all records, including full 12-inch size, thus keeping surface noise to the minimum. Case, with carrying handle, measures 15" wide, 12" deep, 6 1/4" high. For operation from 110 volts, 60 cycles, A.C. Works with any radio set. An unusually fine value at this very low price. Ideal for home entertainment use, also can be used as phono attachment for public address work. Shpg. wt., 10 lbs.

A10993, Knight Low-Cost Portable Player.
NET EACH, \$8.95
NET, LOTS OF 3, EACH

\$8.45

Here's a new idea in radio entertainment. This new Knight 4 Tube Phono-Radio Combination is completely portable and self-contained. Carry it anywhere . . . play it anywhere. It brings you your favorite radio programs and offers enjoyable record entertainment played through the radio circuit and speaker. * Radio portion is built around a new Superhet circuit using latest 1.4 volt tubes for greatest power and remarkably low operating cost. Uses: 1—1A7G, 2—1N5G, 1—1Q5G. Tunes 540 to 1730 K.C. to cover the entire Broadcast band. Features include: built-in "Air-Magnet"; full Automatic Volume Control; 5-inch P.M. Dynamic speaker; latest Slide-Rule dial. Operates from self-contained batteries which give 150 hours or more of service. * Phonograph equipment includes strong mechanical motor of spring-wound type. Plays both 10- and 12-inch records; will play 2—10" records on a single winding. Handsome luggage-type case has storage space for records, hinged lid, and front-face protector. 12"x11"x13 3/4". With tubes and batteries. Shpg. wt., 26 lbs.

A10889, Retail Value, \$57.50.
NET PRICE, EACH, \$29.95
NET PRICE, LOTS OF 3, EACH

\$28.45

Replacement Batteries for above set. NET

\$2.95

23

New! AUTOMATIC RECORD CHANGING UNITS

PLAY WITH ANY RADIO OR AMPLIFIER UNIT



Available with
R.C.A. or GARRARD
CHANGERS

BEAUTIFUL TABLE MODEL

ALBUM CONSOLE MODEL

You can convert your radio set or amplifier into a luxurious Record-Reproducing Instrument with this de luxe Automatic Record Changer Unit. Requires only simple connection to radio set or amplifier. Available with either R.C.A. Record Changer or Garrard Changer built-in, or as cabinet only. Table model design, beautifully-styled and exquisitely built; may be placed on radio top, on end table, etc. Fashioned of fine woods with front panel of select butt walnut veneer and side panels of hardwood. Measures 21" wide, 16 3/4" deep, 12 1/4" high.

Here's a marvelously luxurious presentation of a complete Automatic Record Changer Unit in a handsome and convenient console model cabinet. May be used with any radio set or amplifier for complete phonograph enjoyment. Available with either R.C.A. Record Changer or Garrard Record Changer built-in, or as console only. Beautifully designed; has butt walnut front panel and choice hardwood sides. Has storage compartment for eight 12-inch record albums. Beautifully built and handsomely finished. Measures 31" high, 21" wide, 16 3/4" deep.

WITH R. C. A. CHANGER UNIT

WITH R. C. A. CHANGER UNIT

The beautiful table model cabinet illustrated above is offered complete with built-in latest type 1940 R.C.A. Automatic Record Changer. Plays seven 12-inch records or eight 10-inch records automatically and repeats the last record. Records of any size may be played manually. A reject lever is incorporated which automatically feeds in the next record. Foolproof mechanism, with heavy-duty dependable 78 R.P.M. motor; has latest top-loading R.C.A. Crystal pickup with automatic needle ejector and cup. Offset needle reduces wear on your records. (See description on page 91.) Complete as illustrated. For 110 volts, 60 cycles A.C. Shpg. wt., 46 lbs.

We present the attractive and convenient console model illustrated above with built-in R.C.A. Automatic Record Changer. Plays seven 12-inch records or eight 10-inch records automatically; repeats the last record. Records of any size may be played manually. Changer mechanism is simple and foolproof—nothing to go out of order. Has heavy-duty 78 R.P.M. motor; includes top-loading R.C.A. Crystal pickup with automatic needle ejector and cup. Assures minimum needle wear on records. (See detailed description on page 91.) Complete in console illustrated. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 60 lbs.

WITH GARRARD CHANGER UNIT

WITH GARRARD CHANGER UNIT

The table model illustrated above is also available with the latest Garrard RC10 Automatic Record Changer built-in. Plays either eight 10-inch or eight 12-inch records automatically. Records of any size may be played manually. Has powerful 78 R.P.M. motor and tangent-arm Crystal pickup. Has automatic record rejection feature, non-slip spindle, speed regulator, automatic stop, etc. (See detailed description on page 91.) Complete in cabinet illustrated above. For all A.C. voltages. Shpg. wt., 42 lbs.

We also offer the console illustrated above with built-in Garrard Record Changer. Plays either eight 10-inch or eight 12-inch records automatically. Records of any size may be played manually. Has powerful 78 R.P.M. motor, tangent-arm easy-loading Crystal pickup, and automatic record rejector feature, non-slip spindle, speed regulator, automatic stop for last record, etc. (For complete description, see page 91.) Complete in console described above. For all A.C. voltages. Shpg. wt., 54 lbs.

A15202. NET PRICE **\$37⁵⁰**

A15203. NET PRICE **\$47⁵⁰**

* Cabinet Only. The table model cabinet as described above, is also available separately without Changer. Has 5 1/2" clearance above motor board panel and 5 1/2" below. Supplied with blank panel. A15201. NET PRICE **\$11.65**

A15207. NET PRICE **\$52⁵⁰**

* Console Only. Available separately, without Changers. Has record compartment as illustrated. 5 1/2" clearance above and below motor board panel. Supplied with blank motor board panel. A15205. NET PRICE (less albums) **\$18.50**



GARRARD
CHANGER



R.C.A.
CHANGER

AUTOMATIC RECORD CHANGER WITH 20-WATT AMPLIFIER

Here it is at last—a high-fidelity Complete Electric Phonograph with Automatic Record Changer, Amplifier, and Speaker, all built into a simple but beautiful console cabinet. Enjoy phonograph entertainment at its luxurious best! Learn the meaning of true high-fidelity tone quality—thrill to lifelike record reproduction that will win the enthusiastic approval of even the most critical music-lover! Check these specifications:

• **High-Fidelity 20 Watt Amplifier.** Not an ordinary radio amplifying circuit, but a custom-built amplifier of superior engineering design and precision construction. Develops a full 20 watt output undistorted, with a frequency response of 40 to 7500 C.P.S. with matched speaker. Hum is inaudible. Incorporates Inverse Feedback—a desirable new feature which permits greater output with less distortion, hum and noise, attaining highest fidelity of tone. Has dual Tone Controls—one for bass and one for treble to provide tonal emphasis as desired and to compensate for varying acoustical conditions. Uses the following tubes: 1—6L7, 1—6C8G, 2—6L6G (Beam Power) and 1—5Z3. Other important features include: extra input channel for adding another phono turntable—ideal for home movies, etc.; Fader type master volume control; Speaker Selector Switch for automatically matching additional extension speakers, if desired; Remote Control provision—write us for details; A.C. switch and pilot light. The amplifier is licensed by E.R.P.I. under patent arrangements with Western Electric and A.T. & T.

• **Genuine Jensen Speaker.** We've matched the superb amplifier of this instrument with a genuine Jensen full 12-inch P.M. 12H Dynamic Speaker—one of the finest made. Assures perfect tonal reproduction.

• **R.C.A. Automatic Changer.** The latest type—plays eight 10-inch or seven 12-inch records automatically. Records of any size may be played manually. One of the most dependable Changer units made. (See p. 91.)

• **Handsome Console.** You'll like the simple, attractive console we've chosen for this fine instrument. It's fashioned of finest walnut veneers and is beautifully finished. Measures 31" high, 21" wide, 16 1/4" deep.

• **Complete Phonograph.** The Knight De Luxe Custom Phonograph is offered complete with amplifier, speaker, tubes, and R.C.A. Record Changer, as described. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 94 lbs.

A15203. NET PRICE..... **\$89⁵⁰**

• **With Garrard Changer.** Complete Knight Phonograph as described above but with Garrard Changer (as described on opposite page) instead of R.C.A. Changer. Complete with amplifier, speaker and tubes. For all A.C. voltages. Shpg. wt., 90 lbs.

A15209. NET PRICE..... **\$99⁵⁰**

• **Console Only.** Available separately, without Amplifier, speaker and changer. With speaker grille opening and blank panel.

A15204. NET PRICE..... **\$19.95**



Low Cost
Record Album
TABLES

TABLE TYPE ALBUM HOLDER

A beautifully constructed and practical table for holding record albums. Quality built throughout of choice woods to give sturdy service and to harmonize with the furnishings of any room. Fashioned of choice-grained walnut veneers and hardwood. Design is modern with rounded corners and beaded top edge. Richly finished in a high lustre. Holds up to eight 12-inch record albums or will accommodate 16 symphonic type record albums. Measures 27 1/2" high, 20 1/2" wide and 15 1/4" deep. Here is the answer to the demand for a good-looking, practical album holder table. Top of table may be used for small phono-radio, lamp, books, etc. An ideal low-priced album holder table that will store and preserve your records and at the same time serve as a fine piece of furniture in your home. You can afford this attractive and convenient table. Shipping weight, 25 lbs. (Albums not supplied.)

A15210. NET PRICE..... **\$8⁹⁵**

TWO-SHELF MODERNE TABLE

Here is a beautiful two-shelf album table of fine proportions that will look at home in the finest room. Sturdily built to last—a real masterpiece of cabinet-making. Utilizes the finest walnut veneers and hardwood in a modern design of good taste. Hand-rubbed throughout to a high plano finish. Holds sixteen 12-inch record albums to provide convenient, compact storage. Measures 35 1/2" high, 20 1/2" wide, 15 1/4" deep. Top compartment has partitions to separate albums; lower compartment is left open to accommodate pottery, knick-knacks, etc., until used for record storage. Makes a highly decorative as well as useful piece of furniture. Top of table may be used for holding small phono-radio, lamp, etc. Attractively low-priced so that you need no longer be without suitable storage space for your record collection. Own this beautiful table now. Shpg. wt., 34 lbs. (Albums not supplied.)

A15211. NET PRICE..... **\$12⁹⁵**

SEE PAGE 26 FOR COMPLETE LISTING OF ALBUMS, NEEDLES, PHONO ACCESSORIES, ETC.

PHONOGRAPH ACCESSORIES



Brunswick-Vocalion PHONOGRAPH RECORDS

A once-in-a-lifetime offering of genuine Brunswick and Vocalion Phonograph Records. Never before available at so low a price! Brand-new 1938-1939 Brunswick Phonograph Records offered in assortments of 10 and 25 at a fraction of the original price. All your favorite orchestras and leaders, including: Horace Heidt, Red Norvo, Kay Kayser, Russ Morgan, Jan Garber, Duke Ellington, Teddy Wilson, Phil Long, Gus Arnheim, Emery Deutsch, and others. Popular hits—swing and sweet. All are 10-inch discs recorded both sides. **Notice:** these are all brand-new records, never before played, and regularly sold at much higher prices. Because these assortments reach us already packed, we cannot determine what titles are in each package. But the individual records in each assortment are entirely different—there are no duplications. Take advantage of this record-buying opportunity. Order your assortments now while our supply lasts. You'll find these records ideal for Public Address "fill-in" work and stock purposes. Note: When Brunswick assortments are not in stock, Vocalion records will be shipped. Shipping wt., 5 lbs. per assortment.

A9990, Assortment of 10 Records. YOUR SPECIAL PRICE \$1.25
A9991, Assortment of 25 Records. Same as above, except 25 records to the package. Shpg. wt., 13 lbs. YOUR SPECIAL PRICE \$2.50
 Take advantage of these wonderful Record Values!



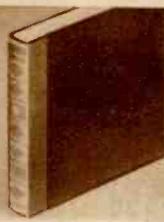
STANDARD ALBUM

A sturdily-made, simple, but attractive album. Designed to hold your records safely. Has heavy brown kraft pockets for holding twelve 12-inch records. Black fabrikoid binding with two aluminum screw posts. A low-cost, good quality album.
A12290. NET 75c
A12291. As above, but holds twelve 10-inch records. NET 55c



FLAT-OPENING TYPE

De luxe flat-opening album. Has solid wood holder plates; envelopes are eyeletted and strung on metal collar; can be removed from slots at will. Album is stamped in gold on back. Holds twelve 12-inch records.
A12292. NET \$1.05
A12293. As above, but holds twelve 10-inch records. NET 90c



DE LUXE ALBUM

An art library album. Has the same inside features as Flat-opening type, but the binding is of red morocco-grained leather fabric, elaborately stamped in genuine gold leaf. Holds twelve 12-inch records. Attractive and durable. Our finest album.
A12294. NET \$1.35
A12295. As above, but holds twelve 10-inch records. NET \$1.12



PORTABLE CASE

A new and attractive portable carrying case which permits you to carry phonograph records conveniently and safely. Sturdily made; has black fabrikoid covering and hinged top lid. Lock and key are provided.
 Holds 25—12" records.
A12296. NET \$1.65
A12297. Same as above but holds 50—12" records. Heavily felt-lined. NET \$2.95
A12298. Felt-lined case as above, but holds 50—10" records. NET \$2.59



POPULAR HOLDER

Here is a clever new record holder that's ideal for storing records conveniently and safely. Measuring only 13" wide by 10" deep, this new holder accommodates fifty records of 10- or 12-inch size. Wires are covered with silk so that records cannot be harmed or scratched. Base is made of attractively finished wood. Supplied with handy index card and stickers for filing records systematically so that they can quickly be located. Neat and compact, this practical holder fits unobtrusively into any small space. Priced attractively low.
A12299. NET PRICE \$2.95



PHONOGRAPH NEEDLES

Fig. A. Permo-"Round" Point Needles. Two are furnished on "speed-checker" card. Each needle plays over 1000 records.
A7622. 2 FOR 65c
Fig. B. Bamboo Needles. Good quality, finely polished; properly pointed; minimum record wear.
A8000. Pkge. of 100. NET 55c

Fig. C. RCA-Victor Steel Needles.

Noted for minimum wear on records. 100 needles in each package.
A7613. Soft Tone. A7607. Loud Tone. A7606. Full Tone. NET EACH 9c
Fig. D. RCA-Victor Red Seal Needles. Developed especially for Red Seal records.
A7619. Pkge. 50. NET 25c

Fig. E. Walco Sapphire Needle.

Genuine sapphire shadowgraphed needle of exceptional quality. Plays 2500 records. Gives long record life. Especially ideal for Automatic Changers.
A2622. NET PRICE 98c
Fig. F. Actone Transcription Needles. Shadowgraphed. Will not harm records; give good tone quality. Package of 100.
A8002. NET PRICE 38c

Fig. G. Garrard Chromic Needles.

Long-playing semi-permanent needle, made for the makers of the famous Garrard Record Changer. Each needle will play at least 10 records. 10 needles to a package.
A8066. NET 9c
Fig. H. Kacti Needles. Will not harm records. Long-playing; excellent tone. 10 to a package.
A8001. NET 29c



PHONOGRAPH OSCILLATOR

\$2.95

Enables you to play records through any radio—with any record player or pickup. Connects to antenna and ground posts of radio. Records are thus reproduced through radio circuit and speaker. Equipped with switch for changing from radio to phonograph or back, as desired. Comes complete with tubes and attachment cord. In small metal case, 6" x 6" x 2 1/2" — which may be tucked away in radio cabinet or record-player. Includes instructions for quick and easy installation. Shpg. wt., 2 1/2 lbs. A wonderful phono oscillator value.
A7627. NET PRICE \$2.95



PHONOGRAPH RECORD ACCESSORIES

Fig. A. Record Cleaning Cloth. The only satisfactory record cleaning accessory. Specially treated felt cloth removes grease and cleans phonograph records and electrical transcriptions.
A8061. 4" x 6" Cloth. NET 15c
A8062. 6" x 6" Cloth. NET 26c
Fig. B. Nash Record Cleaner. The original record cleaner. Cleans, renews and provides smooth lubrication for the needle in the grooves. Non-inflammatory; non-greasy. Harmless to records. 2 oz.
A8072. NET PRICE 21c
Fig. C. Nash Record Polish. A record accessory that quickly restores the original appearance of recordings and transcriptions. Also cleans records at the same time. In 2 ounce bottle.
A8064. NET PRICE 21c



PHONO ADAPTERS

For radio sets without phonograph pickup connection. Enables you to connect any phonograph player or pickup to your radio set.
A8087. Fig. A. For sets using 5" top tube (without grid cap on top) as detector or first audio amplifier.
A8088. Fig. B. For sets using metal or metal glass octal base tubes, such as 6B8, 6F6, 6L6 as first audio amplifier.
A8089. Fig. C. For sets using screen grid cap type of tube, such as 6A6, 6R7, and 2A.
NET EACH 73c

AMAZING ECONOMY WITH THE NEW 1.4-VOLT TUBES



RCA & HAZELTINE LICENSED



Knight 4 TUBE 1.4 VOLT BATTERY SUPERHET

Here's the most economical Farm Radio ever built! Cuts operating cost almost in half yet it's the equal of many five and six tube sets for beautiful tone quality, long-distance reach and wonderfully dependable performance. It saves and saves on battery costs, because the 1.4 volt tubes draw 60% less current yet attain astonishing efficiency.

• **Latest 1.4 Volt Circuit.** The powerful Superhet circuit with extended tuning range covers 535 to 1740 K.C. for enjoyable reception of American and Canadian standard Broadcast programs plus many Police calls. The new circuit is R.C.A. and Hazeltine licensed and uses the following 1.4 volt tubes: 1—1A7G as Mod.-Osc. (dual-purpose); 1—1N5G as I.F.; 1—1H5G as Det.-A.V.C.-1st Audio (triple-purpose); 1—1A5G as Power Output. Four tubes actually do the work of six; you'll notice the difference immediately.

• **1000 Hour Battery Life.** An amazing performance record—unheard-of battery radio economy. "A" drain is only .2 amps; "B" drain is only 8 M.A. Uses 60% less current than ordinary battery sets. With the new "AB" Power Pack you can play the Knight 4 1000 hours before replacing batteries! Think of it! A full season of radio enjoyment—with set playing as long as 10 hours a day—at a cost of less than two cents a day!

• **Beautiful Tone Quality.** You get more than economy from the Knight 4. You'll enjoy to the fullest its rich natural tone. The 5-inch P.M. Dynamic Speaker reproduces each program with splendid clarity and brilliance of tone.

• **New "AB" Power Pack.** ALLIED offers the new Knight 1 1/2 Volt Superhet with a special single unit "AB" battery power pack that will give 1000 hours, or a full season of radio enjoy-

ment, at a cost of less than two cents a day. Set has special plug for power pack. Regular 1 1/2 volt "A" batteries and two standard 45 volt "B" batteries may also be used.

• **Additional Features.** Full-acting Automatic Volume Control maintains uniform volume level on all stations and eliminates fading. The Knight 4 is exceptionally easy to tune by means of the new easy-to-read dial calibrated in kilocycles.

• **Beautiful Plastic Cabinet.** The Knight 4 is fittingly presented in a new plastic molded cabinet of beautiful design. Has louvre type grille opening and features soft, harmonious lines throughout. Available in soft Ivory or mottled Walnut. Size: 10 1/2" wide, 7 1/2" high, 6" deep.

• **Knight 4 Complete.** The Knight 4 Tube 1.4 Volt Superhet is offered complete with tubes, but less "AB" pack. Shpg. wt., 10 lbs.

A10880.
Walnut.
Retail Value, \$19.95.
NET PRICE EACH..... \$11.45

A10880B. As above but complete with 1000 hour "AB" pack. Shpg. wt., 31 lbs.
NET PRICE..... \$14.90

A10879. Ivory. Less "AB" pack.
Retail Value, \$21.50.
NET PRICE EACH..... \$12.25

A10879B. Ivory Model complete with Ray-O-Vac "AB" pack.
NET PRICE..... \$15.70

A9772. Replacement 1000 hour Ray-O-Vac "AB" pack. 15 1/2" x 4 1/4" x 6 1/4".
Shpg. wt., 21 lbs. **NET..... \$3.45**

1000 HOUR BATTERY LIFE

60% LESS CURRENT DRAIN

4 TUBES DO THE WORK OF 6

BETTER POWER AND TONE

FEATURES

- P.M. TYPE SPEAKER
- FULL-ACTING A.V.C.
- TUNES POLICE CALLS
- NEW PLASTIC CABINET
- FULL-VISION DIAL
- "AB" POWER PACK

1.4 VOLT SELF-CONTAINED BATTERY MODEL

The Knight 4 Tube 1 1/2 Volt Battery Superhet is available also—with circuit and features exactly as described above—in a larger new type walnut table model cabinet which will conveniently hold the "AB" Power Pack or the regular standard batteries. As illustrated at right, this beautiful new cabinet is a masterpiece of fine workmanship. It has an especially attractive front panel and top of one-piece exquisitely striped walnut veneer with pleasing roll effect. Features darker toned sides and bottom edge. Has handsomely designed speaker grille cut-out with bar overlays. Cabinet measures: 17 1/2" wide, 9 3/4" high, and 12 1/4" deep, and has plenty of space to accommodate batteries or Power Pack. Circuit features include: 540-1730 K.C. tuning range, large 3 1/2" x 4 1/4" Airplane Dial, "On-Off" Indicator, new 6' alloy P.M. Dynamic speaker, full A.V.C., Superhet circuit employing new 1.4 volt tubes, etc., as described in detail above. Less "AB" pack. Complete as described, in walnut cabinet with tubes and 6-inch speaker. An extraordinary value in one of the most economical and efficient battery radios made. Shpg. wt., 14 lbs. Code: HOLLY.

A10882.
Retail Value, \$29.95.
NET PRICE, EACH..... \$15.85

A10882B. The Knight 4 as above, but complete with special 1000 hour Ray-O-Vac "AB" pack. Shpg. wt., 35 lbs.
NET PRICE..... \$19.30





The 1940 Knight 5 Tube 1.4 Volt 2 Band Superhet is presented in the lovely new table cabinet pictured above. Front and sides are of rich, horizontally striped walnut veneers. Has exceptionally attractive louvre type speaker grille overlay. Rounded corners add a note of modern streamlining. Finished in charming two-tone walnut effect; hard-rubbed to a high lustrous piano finish. Cabinet measures: 18" wide, 10½" high, 11" deep. Here is a tastefully designed cabinet that sets a new standard for Farm Radio beauty.

FEATURES:

- NEW SLIDE-RULE DIAL
- FULL A.V.C. ACTION
- WITH TONE CONTROL
- 6-INCH P. M. SPEAKER
- USES 1.4 VOLT TUBES
- BEAUTIFUL CABINET

Knight 5 TUBE 1.4 VOLT 2 BAND SUPERHET

This wonderful new Knight Farm Radio offers you an entirely different conception of amazingly economical operation, powerful two-band reception, and thrilling, life-like tone. It is not only one of the most economical Farm Radios ever built, but in dependability, beauty of design, and all-around value, it can't be beat at our low price.

• **Tunes Two Bands.** Enjoy the thrills of Short Wave reception as well as regular Standard Broadcast reception with this new set. Tuning range covers 540 to 1730 kilocycles for complete coverage of the Standard Broadcast band; tunes 5.9 to 18.0 megacycles for exciting reception of foreign and domestic Short Wave.

• **New 1.4 Volt Superhet Circuit.** A wonderful new R.C.A. and Hazeltine licensed Superhet circuit employs the new money-saving 1.4 Volt low-draw tubes as follows: 1A7G as dual-purpose Mod.-Osc.; 1N5G as I.F. Amp.; 1N5G as 2nd I.F. Amp.; 1H5G as triple-purpose Diode Det.-A.V.C.-1st Audio; and 1A5G as Power Output. Economical battery drain is only .25 amperes from "A" and only 8 milliamperes from "B".

• **Extra-Value Features.** Big, new Slide-Rule Dial (5¼" x 2") with a separate scale for each wave-band and with built-in "on-off" indicator; full Automatic Volume Control to maintain constant volume level on all stations; variable Tone Control to let you select the tonal range you most enjoy; rubber-mounted tuning condenser for stability.

• **Beautiful Tone.** For finest tone quality the Knight 5 includes a special new 6-inch Permanent Magnet Dynamic speaker which handles every program with rich clarity and fullness.

• **Set Complete.** The Knight 5 Tube 1.4 Volt Superhet is offered in the table cabinet described at left, complete with tubes but less "AB" pack. Shpg. wt., 18 lbs. Code: GLOAM.

A10884.
Retail Value, \$37.50.
NET PRICE EACH

\$18⁹⁵

A10884-B. The Knight 5 as above, but complete with Ray-O-Vac "AB" pack. Shpg. wt., 38 lbs. Code: COUNT.

NET PRICE EACH

\$22.40

RCA & HAZELTINE LICENSED



SENSATIONAL! A NEW BATTERY MODEL THAT PLAYS FROM 1.4 VOLTS OR 110 V. A-C

Here's the most remarkable Farm Radio ever built! This new Knight 5 Tube Superhet operates perfectly from an economical "AB" battery pack—giving you amazing economy with its 1.4 volt low-draw tubes—or, with its 110 volt A.C. power line at the flip of a switch, will also operate from any 110 volts A.C. power line. Either way, the Knight 5 gives you wonderful power, performance, and tone quality. Here is the last word in radio versatility! Here is performance that actually gives you two radios in one at low cost!

Knight 5 TUBE 2 BAND 1.4 VOLT-110 VOLT SUPERHET

This new Knight 5 Tube 2 Band Superhet is so cleverly designed that it's really two radios in one. It's the ideal choice for camps, cottages, trailers, and farms where the high line is on the way. Works perfectly either from an "AB" battery pack with remarkable economy resulting from the use of the new 1.4 Volt tubes, or from 110 volts, 60 cycles, A.C. Use it with A.C. when electric current is available or from batteries when there's no A.C. handy. You take no risk when you buy this new set—try it out for yourself under the liberal terms of our 15 Day Trial and Money-Back Guarantee.

• **New Superhet Circuit.** The Knight Two-Way 5 Tube Superhet is built around a new R.C.A. and Hazeltine licensed Superhet circuit employing latest tubes as follows: 1A7G as dual-purpose Mod.-Osc.; 1N5G as I.F. Amp.; 1H5G as triple-purpose Diode Det.-A.V.C.-1st Audio; 1A5G as Power Output; and 25Z6 as Rectifier. On battery operation this tube combination assures you of exceptionally low drain—only .2 amperes from "A" and 9 milliamperes from "B"; on AC operation, these tubes develop all the power you need for strong reception, and full-voiced tone.

• **Two-in-one Versatility.** Get the convenience of either battery operation or A.C. operation at the flip of a switch. The 1.4 volt tubes mean amazing economy when used from batteries, yet assure powerful reception on A.C.

• **Added Features.** Other features include: a big new Slide-Rule Dial—6½" long by 4½" high—with large, clear calibrations, and a separate scale for each wave band; full Automatic Volume Control to maintain uniform volume level; a new 5-inch Permanent Magnet Dynamic speaker to provide beautiful tone quality; highest quality components; etc.

• **Rich Tone Quality.** You'll always enjoy listening to this new Knight Radio. No matter what program you tune, you will be delighted with the exceptional faithfulness, the mellow richness, of every sound or musical note. Rich tone quality is an outstanding feature of this new Two-in-One 1940 receiver.

• **Handsome Table Cabinet.** Gracefully proportioned, this new cabinet has a rich front face of horizontally striped walnut with inlay trims, distinctive bar overlays across the speaker grille, and unusually attractive corner treatment. 22" wide, 11" high, 11" deep.

• **Two-in-One Radio Complete.** The Knight 5 Tube 2 Band Superhet for 1.4 Volts-110 Volts is supplied complete with tubes (less batteries) in the table cabinet illustrated above. Shpg. wt., 20 lbs. Code: KNOWN.

A10885.
Retail Value, \$54.50.
NET PRICE EACH

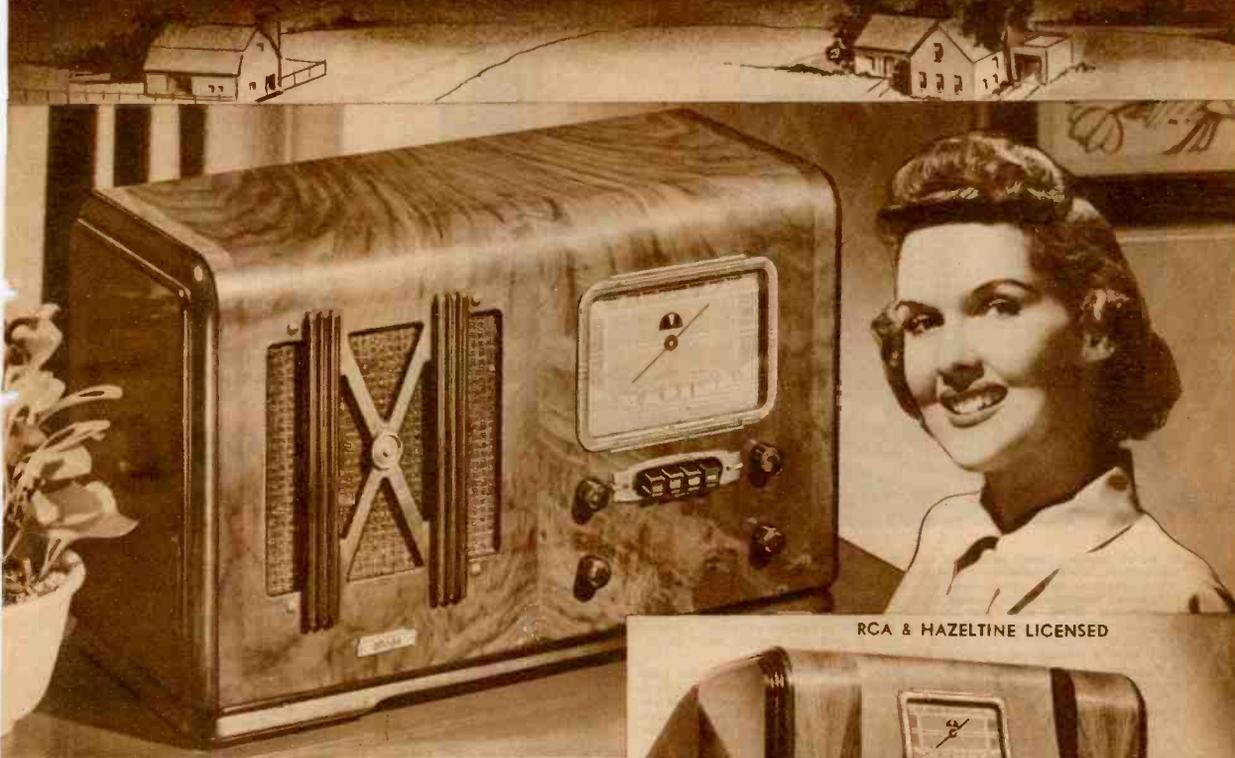
\$26⁹⁵

A10885-B. Knight 5 as above, but complete with Ray-O-Vac "AB" pack. Shpg. wt., 40 lbs. Code: GRADE.
NET PRICE EACH

\$30.40

• **Powerful 2-Band Reception.** Enjoy the luxury of more-than-one-band radio. This new Two-Way Knight tunes two full bands from 540 to 1720 kilocycles for splendid reception of all Standard Broadcast programs and 5.9 to 18 megacycles for thrilling reception of foreign and domestic Short Wave programs. Both bands are alive with marvelous entertainment that will thrill and delight you. You will always enjoy the way in which this sensational new receiver pulls in the program you want and reproduces it to you with smooth, full-voiced tone quality.

NEVER BEFORE SUCH BATTERY RADIO ECONOMY!



RCA & HAZELTINE LICENSED

Knight 6 TUBE 1.4 VOLT MODEL 2 BAND RANGE WITH AUTOMATIC TUNING

All of the features of the finest all-electric city radios plus the startling economy of operation offered by the new 1.4 volt tubes combine to make this brand new Knight 6 Tube 2 Band 1.4 Volt Radio an absolutely unprecedented radio receiver. You've never seen a set like this before! Thrilling two-band radio reception . . . stirring, rich-voiced tone quality . . . genuine automatic Push-Button tuning . . . almost unbelievable battery life . . . new and wonderful cabinet beauty—all this is yours at the lowest price ever asked for a comparable set.

• **Automatic Push-Button Tuning.** The most popular city radio feature in years—now yours in this new low-cost Knight 6 tube radio. Easy to set up and tune—"feather-touch" in operation. Just press the button with your finger-tip and there's your station. Push-Button tuning covers any of your four favorite stations. Even regular manual tuning is much simpler with the big new 4" x 6" Slide-Rule Dial. Shows separate scale for each wave-band and has unusually large markings.

• **Powerful Two-Band Reception.** Most sets at a comparable price give you only Standard Broadcast programs. But this new Knight tunes two wave-bands from 540 to 1730 kilocycles for Standard Broadcast stations and from 5.9 to 18 megacycles for exciting Short Wave foreign and domestic programs.

• **Rugged Superhet Circuit.** A powerful, dependable R.C.A. and Hazeltine licensed Superhet circuit gives the key to the secret of Knight 6 performance. Employs the newest perfected low-drain 1.4 tubes as follows: 1A7G as dual-purpose Mod.-Osc.; 1N5G as 1st I.F. Amp.; 1N5G as 2nd I.F. Amp.; 1A5G as dual-purpose Det.-A.V.C.; 1H5G as 1st Audio; 1A5G as Power Output. So powerful is this tube combination that you'll be amazed at the distance-range of the Knight 6, so economical that you'll be delighted. Battery drain is only .3 amperes from "A" and only 8 milliamperes from "B."

• **Amazing Battery Life.** Here's the radio economy you've always looked for. When used with the inexpensive "AB" pack described below, the Knight 6 will operate as long as 600-800 hours before new batteries are required. Operating cost is less than two cents a day!

• **Extra-Value Features.** Other new features of the Knight 6 Tube 1.4 Volt Superhet include a special 6-inch Permanent Magnet Dynamic Speaker for glorious tone quality, so realistic that you'll think you're right in the broadcast studio; full Automatic Volume Control to maintain uniform volume level on all programs; variable Tone Control so that you can put the tonal emphasis wherever you desire; smoothing Bandswitch for instant changeover from Broadcast to Short Wave, or return; rubber-mounted chassis and tuning condenser.

• **Charming Table Cabinet.** The Knight 6 is offered in the unusually charming table cabinet illustrated above. Has top and front face of richly figured walnut veneers with pleasing roll-over effect; shaped speaker grille bars in Classic motif; metal dial escutcheon and control panel. Size: 21" wide, 12½" high, 11" deep.

• **Sat Complete.** Knight 6 Tube 2 Band 1.4 Volt Superhet in table cabinet. Complete with tubes, less batteries. Shpg. wt., 22 lbs. Code: HEATH.

A10886.
Retail Value, \$42.50.
NET PRICE EACH **\$22.45**

A10886-B. As above, but complete with Ray-O-Vac "AB" Power Pack containing 1-1.4 Volt "A" battery and 1-90 Volt "B." Shpg. wt., 42 lbs. Code: MERGE.

NET PRICE EACH **\$25.90**



6 TUBE 1.4 VOLT CONSOLE MODEL

The new Knight 6 Tube 2 Band Radio with Automatic Tuning is also presented in a deluxe Console cabinet. Has all of the features of the table model, but for even finer tone includes a full 10-inch P.M. Dynamic speaker. Beautiful console is built of rich, figured walnut veneers; has tilted instrument panel and shaped grille bars. Size: 38¼" high, 25½" wide, 14½" deep. Shpg. wt., 58 lbs. Code: PERCH.

A10888. Complete with tubes, less batteries. Retail Value, \$74.50. **NET PRICE EACH** **\$3675**

A10888-B. Complete with Ray-O-Vac "AB" pack for 600 to 800 hours of service. Shpg. wt., 78 lbs. Code: LILAC. **NET PRICE EACH** **\$40.20**

6 TUBE CHASSIS MODEL

A perfect replacement for obsolete or "battery-killing" Farm Radios. Incorporates all features as above, including 10" P.M. Speaker. Size: 10" wide, 6" deep, 9" high. With tubes, knobs, escutcheon, etc. Less battery. Shpg. wt., 15 lbs. Code: HEDGE.

A10887. Retail Value, \$38.50. **NET PRICE EACH** **\$19.45**

NET PRICE EACH **29**
Add \$3.45 for Ray-O-Vac "AB" pack as described above.

LOW-COST 1 BATTERY RADIO



Knight 6 TUBE 6 VOLT 2 BAND SUPERHET

- TELEVISION CONNECTION
- TUNES FOREIGN STATIONS
- GIANT SLIDE-RULE DIAL
- WITH TONE CONTROL
- FULL-ACTING A.V.C.
- 6 INCH P.M. DYNAMIC

\$26⁸⁵



WITH ELECTRIC EYE

If we're exceptionally proud of this new 1940 Knight 6 Tube 6 Volt Superhet, it's because we know that it incorporates the finest in battery set engineering skill, exceptional cabinet artistry, and powerful enjoyable two-band reception—at a price that is unbeatably low. We're backing this model 100% with our Liberal Trial, Money-Back Guarantee (see page 11)! Try it in your own home—get the proof for yourself—if this set doesn't outperform any other 6 tube 6 volt set you've ever heard, we'll gladly refund your purchase price!

• **Foreign and American Reception.** The Knight 6 covers two complete bands powerfully and dependably: 16.4-51.7 meters (5.8-18.3 M.C.) for Short Wave foreign, aviation, amateur and police reception (includes the popular 19, 25, 31 and 49 meter foreign Short Wave Channels). The second band covers 173-555 meters (540-1730 K.C.) for all American and Canadian standard Broadcast stations, as well as upper Police channels. Covers practically everything of importance on the air!

• **Slide-Rule Dial.** Latest 1940 type—that makes tuning a real pleasure. Has easy-to-read calibrations, marked in kilocycles for the standard Broadcast band, and in megacycles for Short Wave. Electric Eye is incorporated in the dial face. Scientifically precise, it shows you when you are tuned in perfectly. You just watch the shadow in the glowing eye; when it is narrowest, your station is tuned on the head.

• **New 1940 Superhet Circuit.** The circuit of the Knight 6 is of the newest Superhet type, licensed by the famous R.C.A. and Hazeltine laboratories. Every tube works at full efficiency: 6D8G as Mod.-Osc. (dual-purpose); 6S7 as I.F.; 6L5G as Det.-A.V.C. (dual-purpose); 6T7G as 1st Audio; 6G6G as Power Output; 6U5 as Electric Eye. The use of dual-purpose tubes actually makes possible 8 tube power and efficiency.

• **Low-Cost Operation.** The Knight 6 operates completely and entirely from a single 6-volt storage battery and does not require "B" or "C" batteries. Battery drain is extremely low—2.2 amps.—yet the power output is amazingly strong for a 6 tube battery set. Here's real economy that saves you money.

• **Magnificent Tone.** A full-sized 6-inch P.M. Dynamic Speaker is incorporated for a rich bell-like quality of tone not found even in many electric receivers. You'll like the power output and the vivid tonal realism of the Knight 6. All programs are reproduced with a smoothness and quality that you will always enjoy. Variable Tone Control permits you to emphasize bass or treble to suit your own tastes.

• **Other Value Features.** The Knight 6 is ready for Television when it comes. It's equipped with Television plug-in for Television sound. Also serves as phono connection to accommodate spring-wound phono player. Full Automatic Volume Control maintains uniform volume in all programs; Continuously Variable Tone Control permits emphasis of bass or treble as you may desire; Wave-Band switch for easy selection of the band you want; rubber-floated heavy-duty tuning condenser for real stability; battery cable with clips attached, etc. Only the very finest heavy-duty components are incorporated throughout the receiver.

• **Beautiful Table Model.** A handsome new cabinet houses the Knight 6. Has top and front face of one-piece richly figured walnut veneers; speaker grille opening has distinctive Classic motif. Finished to a high lustre. Size: 21" wide, 12 1/4" high, 11" deep. Here is one of the season's most distinguished table model radio designs that will beautify any home.

• **A Wonderful Value.** The Knight 6 Tube 2 Band 6 Volt Superhet is with 6" speaker and tubes. Less battery. An outstanding value in a one-battery two-band Farm Radio of exceptional power and superb tone quality. Shpg. wt., 23 lbs. Code: MASON.

A10890.
Retail Value, \$34.50.

YOUR NET PRICE

\$26⁸⁵

A10458, Knight 6-volt 15-Plate Storage Battery. Shpg. wt., 42 lbs. NET.....\$5.95

Knight 4 TUBE 6 VOLT LOW-COST SUPERHET

A dependable One Battery Farm Radio unequalled in value! The Knight 4 Tube 6 Volt Superhet achieves brilliant performance and tone quality equal to many five and six tube sets through the use of such latest developments as the new synchronous type vibrator and dual-purpose and triple-purpose tubes. For such outstanding performance and value its price is amazingly low.

• **Economical Operation.** The Knight 4 uses only one 6 Volt storage battery and does not require any "B" or "C" batteries. Battery drain is only 1.9 amps. Costs you practically nothing to run. Combines the latest desirable features usually found only in all-electric type sets with desirable economy of battery operation.

• **Full Broadcast Range.** The Knight 4 covers 174 to 560 meters (535 to 1720 K.C.) giving clear, powerful reception of all American standard Broadcast stations, plus upper Police channels. The new Slide-Rule type Dial is clearly marked and easy-to-read.

• **Powerful New Circuit.** The Knight 4 has the latest perfected R.C.A. licensed circuit using the best low-drain tubes as follows: 6AR6 as 1st Det., Osc. (dual-purpose); 6K7 as I.F. Amp.; 6O7G as 2nd Det., A.V.C.; 1st Audio (triple-purpose); 6G6G as Beam Power Pentode Output. Additional important new features include: full A.V.C. for uniform volume and freedom from fading; dual-purpose synchronous vibrator; rubber-covered battery cable, etc.

• **Beautiful Tone Quality.** We are proud of the tonal performance of the Knight 4. You can't match its fidelity, purity and mellowness in any other Farm Radio at this low price. Uses a full five-inch new P.M. alloy dynamic speaker.

• **An Outstanding Value.** The Knight 4, in table cabinet as illustrated, comes complete with 5" P.M. speaker and tubes. Less battery. Shpg. wt., 13 lbs. Code: NOTCH.

A10818.
Retail Value, \$27.50.

NET PRICE, EACH

\$13⁹⁵

A10458, Knight 6 volt 15 plate Storage Battery. Shpg. wt., 42 lbs. NET.....\$5.95

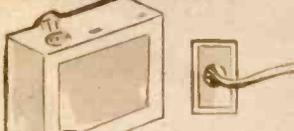


RCA LICENSED

- 5" P.M. DYNAMIC
- SLIDE-RULE DIAL
- FULL-ACTING A.V.C.
- TUNES POLICE CALLS
- LOW-DRAIN TUBES
- LATEST SUPERHET

The Knight 4 6 Volt Superhet is presented in a brilliantly styled cabinet made of choice selected two-toned solid walnut. Its simplicity of design assures harmonious appearance in any room. The louvre-type grille gives added beauty and assures best acoustical results. Measures 12"x17 1/2"x7 1/2". The easy-to-read Slide-Rule Dial makes tuning easy.

NEW 2-WAY FARM RADIO



Knight 5 TUBE 3-BAND 6V-110V SUPERHET

- TELEVISION CONNECTION
- FOREIGN RECEPTION
- 6" P.M. DYNAMIC SPEAKER
- GIANT SLIDE-RULE DIAL
- WITH TONE CONTROL
- FULL-ACTING A.V.C.

\$2785



RCA & HAZELTINE LICENSED

If you want the last word in versatile Farm Radio design—if you want a receiver that will give you dependable radio reception either from 6 volts or 110 volts A.C.—here's the model you'll buy! The Two-Way Knight 5 works perfectly from either 110 volts A.C. or from a 6-volt storage battery. It's really two radios in one. Just flip a switch for operation from either source. You can't beat this model for economy, power and versatility. Use it in the country or trailer from a 6-volt battery; use it in the city on A.C.—either way you'll get dependable, thrilling Three-Band radio reception!

- **Powerful 3-Band Reception.** Tune everything of importance that's broadcast in the world today! The Knight Two-Way model tunes 12½-40 meters (7.5-24 M.C.) and 40-134 meters (2.4-7.5 M.C.) for thrilling world-wide Short-Wave reception of foreign programs, amateurs, aviation and police calls. 173-520 meters (535-1730 K.C.) brings you powerful coast-to-coast regular American and Canadian Broadcast. Each band is alive with entertainment that will thrill and delight you.
- **Giant Slide-Rule Dial.** It's easy to tune the Knight 5. You'll like the easy-reading giant 6" x 4" Slide-Rule Dial with its individually calibrated bands. Standard Broadcast is indicated in kilocycles; Short Wave bands are in megacycles. A wave-band indicator shows you at all times just what band you are tuning. You'll enjoy tuning this clear, easy-to-read full-vision type dial.
- **New Circuit Design.** Fully licensed by R.C.A. and Hazeltine, the brilliant circuit of the Knight Two-Way 5 uses the following low-draw tubes: 6D8G as Mod.-Osc. (dual-purpose); 6S7 as I.F.; 6T7G as Det.-A.V.C.-1st Audio (triple-purpose); 6G6G as Power Output; 6Z55G as Rect. Dual- and triple-purpose tubes develop extra-tube power and efficiency for actual seven tube radio performance.
- **Economical Operation.** The new Two-in-One Knight 5 is a marvel for economy whether you operate it from 6 volts or 110 volts. Low-draw tubes and skillful circuit design assure maximum savings without

any sacrifice in quality. You can save as much as \$15 to \$18 per year on battery operation. 110 volt operation is on a par with the finest low-draw A.C. sets. "Economy" is more than a word in this model—it is a pleasing fact you will be quick to appreciate and welcome!

- **Beautiful Tone.** Superb reproduction is an outstanding feature of the Knight 5. You'll get a real thrill out of its performance. The big output of the rugged circuit is reproduced flawlessly through the new type 6-inch P.M. Dynamic speaker. Each and every program is reproduced with broadcast studio fidelity.
- **Additional Features.** The Knight 5 brings you these extra refinements: Television connection for television attachment—same connection serves for phono pickup input; Continuously Variable Tone Control for individual emphasis of either bass or treble; Full A.V.C. to maintain uniform volume on all programs; full-length cable with battery clips, and A.C. cord and plug; rubber-floated tuning condenser, etc. Here are extra-value features that mean greater efficiency and enjoyment.
- **Handsome Table Cabinet.** Here is outstanding styling. Sets a new note in the gracefully curved speaker grille with smart cutout effect. Both top and front face are of selected walnut veneers finished flawlessly. Cabinet measures 19" wide, 10" deep, 10" high.
- **Two-in-One Radio Complete.** The 5 Tube Knight Two-Way Superhet is offered complete in table model above, with 6" P.M. dynamic speaker and tubes. Less battery. An outstandingly versatile radio at an amazingly low price! Shpg. wt., 23 lbs. Code FERRY.

A10871.
Retail Value, \$54.50.

NET PRICE EACH

A10458, Knight 6-volt, 15-plate Storage Battery. Shpg. wt., 42 lbs. NET \$5.95

\$2785



NEW!
"PORTA-POWER"

PLAY BATTERY SETS FROM A. C. CURRENT

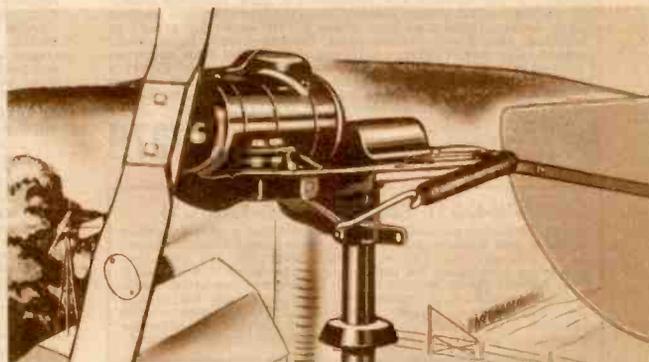
Here's a new power unit that will double the utility of any 1.4 volt portable or home type battery set. Permits you to play any 1.4 volt battery radio from 110 volts A.C. It's easy to connect; just plug in as you would batteries. Porta-Power fits the battery compartment of most 1.4 volt sets. Costs less than 5c per hundred hours to operate. Equipped with composite sockets for all types of plugs used with 1.4 volt radios; also handles octal plug of Zenith portables. Built into a black, crinkle-finished metal case, only 3½"x6"x2". Supplied with plug, cord and cord switch. Shpg. wt., 5 lbs.

A9168, NET PRICE \$4.41

NEW LO-R-VOLTS UNITS

A new device which enables you to use your 2-volt storage battery instead of dry "A" cells to operate 1.4 volt dry battery sets. Saves you money. Sets with 1A5G output use ML-250 unit; sets with 1C5G output, use ML-225 unit.

A7905, ML-250, 29c
A7906, ML-225, NET



FREE POWER WITH A WIND-CHARGER

Now! Get FREE power from the wind with the finest, most reliable Wind-charger ever made. This new, perfected Rurlpower Wind-charger offers true economy in storage-battery charging—costs nothing to operate. Delivers up to 16-20 amperes of direct 6-volt current. Employs a newly-designed, exclusive heavy-duty generator. Efficiently charges any 6-volt Storage "A" Battery (or with resistor listed below, charges any 2-volt storage battery). Has automatic cut-out, automatic propeller speed governor. Generator has oil-sealed ball bearings; cuts in at 320 R.P.M. Has airplane type propeller with copper-sheathed leading edges. Turntable brake automatically corrects position for any wind. Easily started and stopped with simple pull-down wire. To install, mount Wind-charger and 10-foot tower on unobstructed roof or in high, open place.

A10610, Rurlpower Wind-charger complete. Includes heavy-duty generator and head-mechanism, wired and ready to mount; 10-foot Tower, Propeller, Tail Vane, Ammeter on panel, Cut-out, Battery clips, etc. Complete instructions supplied. Shpg. wt., 75 lbs. List Price, \$29.95.

NET PRICE WITH 10 FOOT TOWER (When purchased with any 6 Volt Knight Radio, only \$17.50.) \$1975

A10031, Resistor for charging 2-Volt Storage Battery 55c 31 (For Complete Wind-charger Selection, see Page 68.)

NEW! High-Grade FARM RADIO PHONOGRAPHS

RCA & HAZELTINE LICENSED



KNIGHT 4 TUBE 1.4 VOLT TABLE MODEL

An amazingly low-priced Farm Radio-Phonograph built around a sensational new 1.4 Volt Superhet circuit for 60% greater operating economy. Radio tunes 540-1720 K.C., covering all standard American Broadcast and upper Police channels. Radio features include: Large 4-inch Airplane Dial for easy program logging; "on-off" indicator; Automatic Volume Control; 6-inch P.M. Dynamic Speaker; 1000 hour battery life with special "AB" pack; uses 1A7G, 1N5G, 1H5G, 1A5G. (For full description of set, see page 27.) Finest phonograph equipment is used. Includes heavy-duty spring-wound phono motor, 10-inch turntable, and highest quality Astatic-Crystal pickup. Plays 2-10" or 1-12" record at a winding. Has phono-radio switch. Presented in a handsomely designed table model cabinet with gracefully rolled sides and front of striped walnut veneer. With grille bar overlays. Size: 15"x11"x13 3/4". Lid closes on 2-inch records. Complete with tubes. Less "AB" Pack (see below). A fine value in a modern Farm Radio-Phonograph. Shpg. wt., 25 lbs. Code: WHITE.

A10892.
Retail Value, \$54.50.

\$2745

NET PRICE

LOW-COST FARM PHONO-RADIOS!

ALLIED makes available to the rural market a wide selection of table and console model Radio-Phonograph Combinations at surprisingly low prices. Models available are built for following operation: 1.4 Volt battery operation; 1.4 Volt-110 Volt battery operation and 32 Volt farm plant operation. Each model is designed for maximum economy; each employs a powerful spring-wound phono motor; each reproduces records through radio amplifying circuit and speaker for flawless phonograph entertainment as well as superb radio reception.

KNIGHT 6 TUBE 32 VOLT CONSOLE MODEL

A high-quality Phonograph-Radio Combination in a beautiful console, designed for operation from any 32 Volt Farm Plant. Brings you wonderful phonograph reproduction as well as powerful radio entertainment. Radio features include: 2 Band reception (550-1830 K.C. and 540-1730 K.C.); Giant Airplane Dial; Full-acting A.V.C.; Tone Control; 8" P.M. Dynamic Speaker; Television and Phono Connection; unusual economy, etc. (For full description, see page 33.) Finest phonograph equipment includes: heavy-duty spring-wound phono motor with 10" turntable and quality crystal pickup; plays 2-10" or 1-12" record at a winding. In beautiful floor console of matched walnut woods as illustrated above at right. Complete with tubes. A splendid 32 Volt Radio-Phonograph instrument. Shpg. wt., 74 lbs. Code: YOUNG.

A10899.
Retail Value, \$99.95.

\$4995

NET PRICE

KNIGHT 4 TUBE 1.4 VOLT CONSOLE MODEL

A wonderful value in a high-grade low-cost complete Farm Radio-Phonograph Combination. Built around the latest 4 tube 1.4 volt Superhet circuit to achieve enjoyable phonograph and radio entertainment with maximum economy. Radio tunes 540-1720 K.C.; covers all standard American Broadcast and upper Police channels. 1940 radio features include: large 4-inch Airplane Dial for easy tuning; "on-off" indicator; full-acting Automatic Volume Control; 6-inch P.M. Dynamic Speaker; 1000 hour battery life with special "AB" pack; uses 1A7G, 1N5G, 1H5G, 1A5G. (For full description of receiver, see page 27.) High quality phonograph components include: heavy-duty spring-wound phono motor with 10-inch turntable and high-quality Crystal pickup. Plays 2-10" or 1-12" record at a winding. Has phono-radio switch. Presented in the beautiful console illustrated above. Fashioned of choice walnut veneers with sloping instrument panel. Has hinged lid and compartments to hold records. Size: 28 1/4" wide, 35 1/4" high, 16" deep. Complete with tubes. Less "AB" pack (see below). Shpg. wt., 65 lbs. Code: WATER.

A10896. Retail Value, \$74.50.

\$3785

NET PRICE

5 TUBE 2 BAND 1.4 VOLT CONSOLE MODEL

Similar in features to above, but of greater power and added tuning range. Brings you the finest record reproduction as well as dependable radio reception. Radio includes: 2 Band Reception (5.9-18.0 M.C. and 540-1730 K.C.); Airplane Dial; Full-acting A.V.C.; Tone Control; 8-inch P.M. Dynamic Speaker; low-drain circuit; uses 2-1N5G, 1A7G, 1H5G, and 1A5G. (For full description of set, see page 28.) Incorporates the very finest phonograph equipment: heavy-duty spring-wound phono motor with 10-inch turntable and Astatic Crystal pickup; plays 2-10" or 1-12" record at a winding. Presented in the beautiful large console illustrated above. Has compartments for storing records. Fashioned of choice walnut woods, hand-rubbed to a high lustrous finish. Complete with tubes. An outstanding value. Less "AB" pack (see below). Shpg. wt., 67 lbs. Code: FEAST.

A10897. Retail Value, \$84.50.

\$4250

NET PRICE

5 TUBE 1.4 VOLT-110 VOLT CONSOLE MODEL

Here's an amazingly versatile Farm Radio Phonograph designed for Complete Entertainment. Features a wonderful new circuit which gives you equally fine radio and phono results either from economical 1.4 Volt pack or from 110 volts A.C. Actually two instruments in one. Radio includes: 2 Band Reception (5.9-18.0 M.C. and 540-1730 K.C.); large full-vision Airplane Dial; full-acting A.V.C.; Tone Control; 8-inch P.M. Dynamic Speaker; finest phonograph equipment as follows: heavy-duty spring-wound phono motor with 10-inch turntable and Astatic Crystal pickup; plays 2-10" or 1-12" record at a winding. Presented in the fine console illustrated and described above. Comes complete with tubes, but less "AB" pack. Shpg. wt., 75 lbs. Code: FAVOR.

A10898. Retail Value, \$99.95.

\$4950

NET PRICE

A9772. 1000 Hour "AB" Power Pack for above sets. NET... \$3.45

Knight 6 TUBE 2 BAND 32 VOLT RADIO

Power to bring you the finest radio programs from everywhere—tonal brilliance never before obtainable in a 32 volt set—economy of operation that will amaze you—that's the Knight 6 Tube 32 Volt Superhet for 1940! We believe that the Knight 6 is so far superior to any other 32 volt set in spite of its extremely low price, that we invite you to try it under our liberal Trial, Money-Back Guarantee! Once you enjoy the beauty and performance of this set, once you hear its outstanding, rich tone quality, you'll know why we are so proud of this 1940 Knight 6!

• **Two Full Bands.** The Knight 6 covers 16.4 to 55.5 meters (5500-18300 K.C.) for Short Wave, police, airplane, amateur, and ships-at-sea signals as well as foreign reception on the popular 19, 25, 31, and 49 meter bands; and 173 to 552 meters (540-1730 K.C.) for long-distance reception of American and Canadian standard Broadcast programs.

• **All-Electric Operation.** No batteries are required for operating the Knight 32-Volt Superhet—just plug it into the nearest 32 Volt D.C. source, and you're ready to enjoy all the luxury, convenience and economy of the finest modern A.C. radio receivers.

• **Powerful 1940 Circuit.** An entirely new superhet circuit has been chosen for the Knight 6. Licensed by R.C.A. and Hazeltine, it uses: 6K8 as Osc.-Mod. (dual-purpose); 6SK7 as I.F. Amp.; 6SQ7 as Det.-A.V.C.-1st Audio (triple-purpose); 6J5C as Audio Driver; and 2-25L6G as Push-pull Beam Power Output. These last two tubes contribute greatly to the extra power and tone quality of the Knight 6. The circuit is designed for greatest efficiency and economy. Total drain is only .8 amps.

• **Latest Features.** The Knight 6 is ready for Television when it comes. Has provision for Television attachment; also accommodates phono player input. Full A.V.C. for uniform volume and freedom from fading; rubber-mounted tuning condenser and chassis; Giant 6"x4" Slide-Rule Dial; Beam Power tubes, etc.

• **Table Model Complete.** The Knight 32-Volt 6 Tube Superhet is offered complete with 6" P.M. dynamic speaker and tubes. For 32-volt operation.

Shpg. wt., 20 lbs. Code: EXULT.

A10878.

Retail Value, \$54.50.

NET PRICE EACH

\$27⁸⁵



RCA & HAZELTINE LICENSED

FEATURES:

- Television Connection
- Foreign Reception
- Giant Slide-Rule Dial
- Full-Acting A.V.C.
- With Tone Control
- P.M. Dynamic Speaker
- Phono Connection

• **Beautiful Cabinet.** The cabinet which houses the Knight 6 is a model of superb craftsmanship and designing. Gracefully proportioned, it has a striking new style note in the curved speaker grille with tasteful cutout. Both top and front face are of select walnut veneers with contrasting inlay trims on the front and side faces. The entire cabinet is hand-rubbed to a high lustrous finish. The table model cabinet measures 19 inches wide, 10 inches deep, and 10 inches high.

• **Wonderful Tone Quality.** The Knight 6 stands head and shoulders above all other 32 volt sets for full-bodied, bell-like tone quality. The heavy-duty 6" P.M. speaker, plus the two Beam-Power Tubes and efficient Tone Control, result in unmatched tonal excellence. You'll enjoy the way in which this new Knight model reproduces each program with broadcast studio tone quality. Reception is always the equal of the finest A.C. electric receivers.

• **A Big 32 Volt Value.** Look everywhere, and you won't find a finer 32 Volt Radio than the Knight 6. You get more features, more truly all-electric convenience, better tone quality and greater economy at a lower price. Enjoy all the advantages and pleasure of the finest city type electric radios; thrill to foreign reception and powerful domestic Broadcast programs. Get the Knight 6—it gives you the most for your radio dollar in tuning range, tone quality and outstanding appearance!

Knight 4 TUBE AUTO RADIO



An astonishingly compact Auto Radio that performs with the best of them! The Knight 4 will amaze you with its clarity, volume and versatility! And it's priced so low that no car owner need be without an Auto Radio! This new set has what it takes for those 20 million American cars with no auto sets. Anyone can install it quickly and easily; and it fits any car perfectly! No suppressors required—no complicated connections! Just clamp it on where you want it, connect to aerial and battery—and you are ready to enjoy the thrill and convenience of fine radio entertainment.

• **Easy To Tune.** The ingenious slant opening effect on the dial face gives the driver full view of the easy-to-read "Spot Dial." Large numerals show clearly through the "Spotlight" opening as you rotate thumb-type tuning wheel at right hand side of case. The Volume Control is also at right.

• **Latest Circuit.** With the Knight 4 you get a wonderful new Superhet circuit, licensed by R.C.A. Latest circuit uses following tubes: 6A8GT as Conv.-Osc., 6K7GT as I.F. Amp., 6Q7GT as Diode Det.-A.V.C.-1st Audio; 6K6G as Audio Output. Multi-purpose tubes achieve 6 tube efficiency.

• **Fits All Cars.** The Knight 4 is completely contained in one attractive, car-grey, crackle-finished steel case, only 6 1/4"x7 1/2"x4 1/2". Equipped with special clamp, adapting the set for mounting in any position on steering column or along edge of dash.

• **Advantageous Features.** Other important features include: Full A.V.C. for uniform volume; full Electro-dynamic Speaker of highest quality, rubber-mounted against vibration; 535 to 1600 K.C. range for all standard Broadcast coverage; built-in synchronous vibrator power supply; amazingly economical low 3 ampere drain; fused "A" lead, etc.

• **A Wonderful Auto Radio Value.** We are proud to be able to offer the Knight 4 with its high record of efficient performance. Now everyone can afford splendid Auto Radio entertainment. The Knight 4 is offered as described above, complete with tubes. Shpg. wt., 11 lbs. Code: HARDY.

A10822.

Retail Value, \$19.95.

NET PRICE,

EACH, \$11.35.

NET PRICE, LOTS

OF 3, EACH

(For suitable Auto Aerials, see pages 106-108.)

\$10⁷⁵



LATEST AUTO RADIO FEATURES!

- ALL-ELECTRIC RADIO
- FULL-ACTING A.V.C.
- DYNAMIC SPEAKER
- SUPPRESSORLESS
- NEW "SPOT" DIAL
- THUMB TUNING
- LOW DRAIN
- COMPACT SIZE

\$10⁷⁵

The Knight 4 Auto Radio is ingeniously designed for mounting in any car. Furnished with special mounting clamp which permits easy installation in any of several positions on steering post or under dash edge.

The "PACEMAKER" Knight 5 TUBE AUTO SUPERHET



Its remarkably low price makes this powerful, high-grade 1940 Auto-Radio entirely unique in its field. No other Auto-Radio offering the convenience and driving safety of perfect Push-Button Tuning combined with the versatility and superb performance of the Knight 5 can be sold at anywhere near this price! Fits any car perfectly. For high quality and exceptional value, the "Pacemaker" is first!

• **Automatic Tuning.** Don't take your eyes off the road! With the Knight 5 you can tune in your choice of five favorite stations just by pressing a button! Positive, accurate tuning is automatic, dependable, easy to set, and cannot get out of adjustment. Does not interfere with regular manual tuning.

• **New Slide-Rule Dial.** The new, easy-to-read, easy-to-tune dial of the Knight 5 and entire control panel are inclined slightly to provide full vision and complete safety while driving. The entire assembly mounts neatly along the lower edge of the car instrument panel.

• **All-Electric Radio.** The 1940 Knight 5 offers superb all-electric operation. Has built-in vibrator power supply. Efficient new Superhet circuit, licensed by R.C.A. and Hazeltine, uses five new tubes to get the consistently enjoyable performance of ordinary seven tube sets. Tubes used are: 6A8G as Conv.-Osc.; 6K7 as I.F.; 6Q7G as Det.-A.V.C.-1st Audio; 6K6G as Power Output; 6X5G as Rectifier. No suppressors are required. You get real quality in the Knight 5 "Pacemaker."

• **Outstanding Features.** Additional features include: Full A.V.C. for uniform volume; 5" Electro-dynamic Speaker for splendid tone quality; full 2 watts power output; 6 tuned circuits; 7-8 microvolts sensitivity; 535 to 1550 k.c. range; plug-type antenna connection on case; fused "A" lead, etc. The single sturdy steel case, 5 7/8" x 11" x 5 7/8", beautifully finished in tan crackle, houses the entire assembly. The Knight 5 has been designed and built with all the care and precision demanded by the highest automotive standards. It is made to withstand every vibration and shock and to give maximum stability and enjoyment of performance wherever and whenever you drive.

• **Set Complete.** The 1940 Knight 5 is offered as described above, complete with tubes. Shpg. wt., 15 lbs.

Code: CADET.
A10851.
Retail Value, \$24.95.
NET PRICE, EACH, \$15.95.
NET PRICE, LOTS OF 3,
EACH

\$14⁹⁵

- Automatic Tuning
- All-Electric Radio
- New Slide-Rule Dial
- Suppressorless
- Full-Acting A.V.C.
- 2 Watts Output
- Dynamic Speaker
- Safety-First Radio
- Plug Antenna Conn.

Only the amazing Knight 5 offers so many outstanding features at this low price. For quality, safety, and all-round value, knowing buyers choose the Knight "Pacemaker."

PUSH
A BUTTON
FOR FAVORITE
STATION

Knight 6 TUBE AUTO SUPERHET

- All-Electric Radio
- Suppressorless
- Fits All Make Cars
- Single Hole Mount
- With Tone Control
- Full-Acting A.V.C.
- 3 Watts Output
- 6" Dynamic Speaker

Our very finest Auto Radio! The Knight Super-Six Auto Radio incorporates every new car radio feature and improvement and provides the finest possible radio performance and utility in any automobile. Its tonal brilliance, dependable power, and outstanding "extras," insuring most enjoyable radio entertainment, are unexcelled. Here, indeed, is a set designed with all the ruggedness, precision, and quality demanded by the automotive industry.

• **Fits All Cars.** The Knight 6 is completely contained in a single tan-colored crackle finished steel case, beautifully built and finished to harmonize with the finest car interior. Measures 7 1/4" x 7" x 8 3/8"; requires only a single hole mount for quick, easy installation.

• **Low Drain Tubes.** The powerful R.C.A. and Hazeltine licensed circuit uses the following tubes: 6K7 as R.F.; 6A8G as 1st Det.-Osc.; 6K7 as Amp.; 6Q7G as Det.-A.V.C.-1st Audio; 6K6G as Power Output; 6X5G as Rectifier. The use of dual-purpose and triple-purpose tubes enables the Knight 6 to achieve efficiency and performance equal to that of seven and eight tube auto sets. In addition, six advanced filter circuits eliminate ignition noises and make suppressors unnecessary.

• **Extra-Value Features.** The Knight Super-Six Auto Radio incorporates continuously Variable Tone Control for "extra" tonal pleasure on every program. Automatic Volume Control eliminates fading and assures uniform volume; coupled with the full rich tone of the full-size 6" Electro-dynamic speaker, maximum enjoyment is yours wherever you drive. No-Glare Dial is an "extra-value feature" added for your safety; makes tuning easier and faster, helps you keep your eyes on the road.

• **New Features.** Additional features are: Full undistorted output of 3 watts; 10 K.C. Selectivity; R.F. Pre-amplifier for greater sensitivity; 2 Position Antenna Plug for matching aeriels of various capacities; 6 Tuned Circuits; 2 Gang Condenser; Fused "A" lead, etc. Tunes 535 to 1550 k.c.

• **A Great Value.** The Knight Super-Six Auto Radio, as described above, is offered complete with built-in speaker, tubes, flexible shafts, tuning mechanism and hardware. Requires either of the tuning control heads listed at left. Shpg. wt., 20 lbs.

Code: BADGE.
A10852.
Retail Value, \$39.95.
NET PRICE, EACH, \$21.95.
YOUR NET PRICE, LOTS OF 3,
EACH

\$20⁹⁵

(For suitable Auto Aeriels, see pages 106-108)



RCA & HAZELTINE LICENSED

SPECIAL CONTROL MOUNTING KITS

A10940, Type A. Universal control tuning mechanism to fasten to lower edge of instrument panel in cars with no custom-control provision on dash. Makes an attractive installation in cars which do not have custom-control provision on dash.
YOUR PRICE, EACH 99c

A10941, Type B. Custom control for mounting on cars equipped with radio compartment. When ordering, specify make, model and year of car and be sure to indicate whether standard or de luxe model. This control will match car panel perfectly.
YOUR PRICE, EACH \$1.44

Knight 4 TUBE 1.4 VOLT Portable SUPERNET

This new "wonder radio" gives you powerful, economical radio reception no matter where you go. It's the ideal companion for camping, motor-trips, hiking, picnicking, and is equally useful as a "spare" radio at home, in school dormitories, hotels, etc. Uses the amazingly economical new 1.4 volt tubes for remarkable power and low-cost operation. Entirely self-contained, this handy set will play perfectly the minute you turn it on!

• **Built-In "Air-Magnet."** No aerial—no ground—no dangling wires are needed with the Knight 4 Tube Portable. Has built-in "Air-Magnet"—the newest type of aerial, so sensitive, so strong in signal pickup, that the Knight 4 will play even while you're walking along with it in your hand. There is nothing to connect or add.

• **New 1.4 Volt Circuit.** The Knight 4 tunes the entire Standard Broadcast band from 535 to 1610 kilocycles for splendid reception of all of your favorite programs. The efficiently designed R.C.A. and Hazeltine licensed circuit uses the new 1.4 volt low-drain tubes as follows: 1A7G as dual-purpose Conv.-Osc.; 1H5G as triple-purpose Diode Det.-A.V.C.-1st Audio; 1N5G as I.F. Amp.; 1Q5G as Power Output. The two multiple purpose tubes add to efficiency... they make the Knight 4 the equal of many 5 and 6 tube portables.

• **Exceptional Low Drain.** Here's real operating economy! You get 250 hours or more of radio entertainment from this new set. "A" drain is only .25 amperes; "B" drain, only 10 milliamperes. Costs only a few cents a day to operate.

• **Added Features.** Other features include Automatic Volume Control to maintain uniform volume level; new 4" x 2 1/2" full-vision dial with "on-off" indicator built-in. A full 5" P.M. Dynamic speaker reproduces with wonderful realism and brilliant tone.

• **Smart Luggage-Type Case.** You can easily carry the Knight 4 Tube Portable wherever you go. The entire set is built into a strikingly handsome compact carrying case finished in airplane luggage cloth. Has distinctive contrasting stripe which extends all around the case. With convenient carrying handle and leather identification tag. Size: 13 1/4" wide, 9 1/4" high, 7 1/2" deep.

• **Set Complete.** The Knight 4 Tube 1.4 Volt Portable Superhet is supplied with tubes and batteries, completely contained in carrying case illustrated above. Shpg. wt., 20 lbs. Code: LEAFY.

A10848.

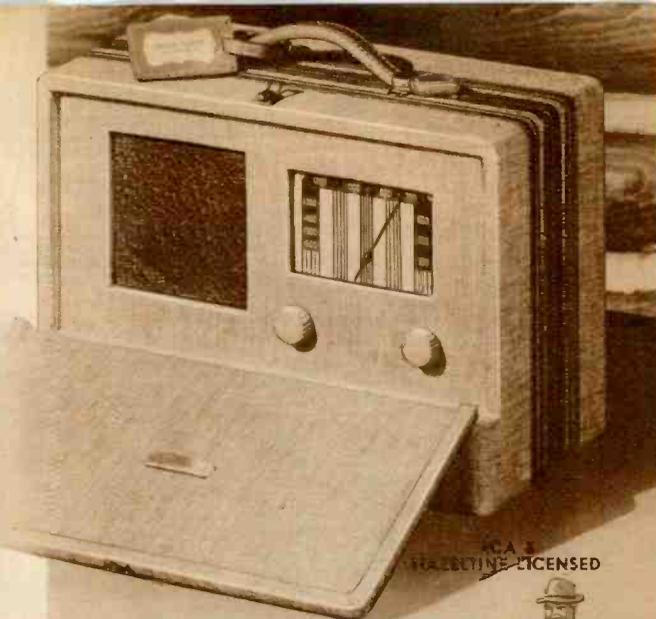
Retail Value, \$29.95.

NET PRICE, EACH, \$14.95.

NET PRICE, LOTS OF 3, EACH.....

\$14.95

A10034. Replacement battery kit, including 1—General 1.4 Volt "A" battery and 2—General 45 Volt "B" batteries. Shpg. wt., 10 lbs. NET..... \$2.65



RCA HAZELTINE LICENSED

NEW Knight PORTABLES

Carry Everywhere — Play Anywhere

Knight 5 TUBE 2 BAND 1.4 VOLT Portable SUPERNET

This brand-new, deluxe Knight 5 Tube 2 Band 1.4 Volt Portable combines all of the features which make for unusual economy of operation together with added developments for powerful reception on two wave bands. For wonderful tone quality, enjoyable performance, and sensational economy of operation, it's hard to match!

• **Tunes Two Full Bands.** The Knight 5 Tube Portable tunes two full wave bands from 540 to 1600 kilocycles and from 5.8 to 18.1 megacycles. These bands bring you complete coverage of all Standard Broadcast programs plus fascinating reception of many important Short Wave stations. The big new Slide-Rule dial, 3 1/2" long by 1 1/4" high, is easy to tune and has separate scales for each band.

• **Everything Built-in.** No aerial, no ground, no connections to worry about. The amazing new "Air-Magnet," completely built-in, picks up programs from 1/2" and near by with remarkable response. Batteries, too, are self-contained. All you do is turn the switch, and there's your program. Plays even while you're walking. A full 5-inch P. M. dynamic speaker gives you exceptionally enjoyable tone quality and brilliant reproduction of every program.

• **1.4 Volt Superhet Circuit.** The Knight 5 uses the 1.4 volt tubes in an R.C.A. and Hazeltine licensed Superhet circuit. Tubes are: 1A7G as dual-purpose Mod.-Osc., 1H5G as I.F. Amp.; 1N5G as 2nd I.F.; 1H5G as triple-purpose Diode-Det.-A.V.C.-1st Audio; and 1Q5G as Power Output. Battery drain is only .3 amperes from "A" and only 13 milliamperes from "B".

• **Other Deluxe Features.** Full Automatic Volume Control provides for constant volume level on every program, prevents fading and distorting. Convenient bandswitch lets you shift instantly from one band to another.

• **Deluxe Carrying Case.** The Knight 5 is supplied complete with tubes and batteries in the carrying case shown at right. Finished in smart airplane luggage cloth; has convenient carrying handle and identification tag. Size: 11 1/2" high, 12" wide, 7 1/2" deep. Shpg. wt., 18 lbs. Code: HONEY.

A10872.

Retail Value, \$37.50.

NET PRICE, EACH, \$18.75.

NET PRICE, LOTS OF 3, EACH.....

\$18.75

A10046. Replacement battery kit, including 1—1.4 Volt "A" and 2—45 Volt "B" batteries. Shpg. wt., 9 lbs. NET..... \$2.95



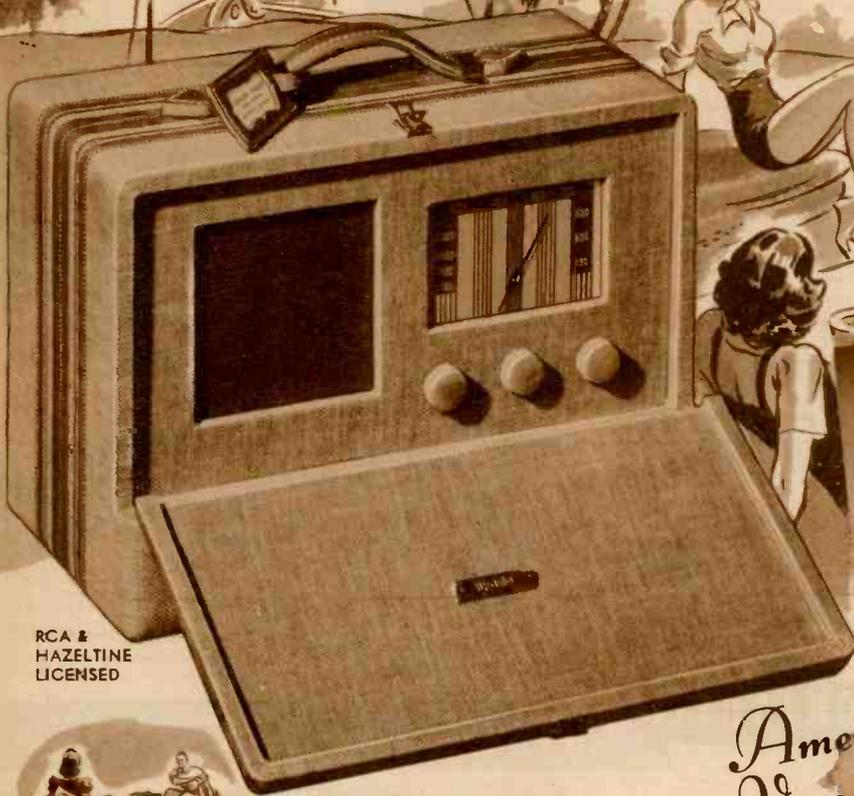
COMBINATION 1.4 VOLT A.C.-D.C. 2 BAND

For even greater versatility and convenience, ALLIED also offers the Knight 5 Tube 2 Band Portable in a Two-Way model for both operation from batteries or from 110 volts, 60 cycles A.C. or D.C. Just plug in where you have current and save on battery cost; when no electric outlet is handy, just turn on the switch for battery operation. A single knob handles the change. Has all features of model described at left. Tubes are: 1A5G, 1N5G, 1H5G, 1A5G, and 1Q5G. With tubes, batteries, etc. Shpg. wt., 18 lbs. Code: HUSKY.

A10873. Retail Value, \$42.50.
NET EACH, \$22.45. LOTS OF 3, NET EACH..... \$21.35
A10047. Replacement Battery Kit. Shpg. wt., 9 lbs. NET..... \$2.95

PLAYS FROM BATTERIES OR FROM 110 VOLTS A.C. OR D.C.

**NO AERIAL
NO GROUND
with
AIR-MAGNET**



RCA &
HAZELTINE
LICENSED

*America's Most
Versatile Radio!*

Knight 5 TUBE 1.4 VOLT-110 V. AC-DC PORTABLE

- 2 RADIOS IN ONE
- SUPERHET CIRCUIT
- A.V.C. ACTION
- IN BEAUTIFUL CASE

Here's the last word in Portable Radios—the set you've been looking for! Here's the last word in "dual utility"—you can play the Knight 5 anywhere—anytime! It's really two radios in one—the most universal set you've ever seen. You can play it out-of-doors or in rural homes from its built-in batteries—no aerial, no ground, no connections required! Or you can play it in your home if you have electric power, like any other house radio, because it's also designed to work from any electric outlet—not only from 110 volts A.C. but on 110 volts D.C. as well! The Knight 5 is truly America's most versatile Portable offered at an amazingly low price!

• **Everything Built In.** You don't have to make any complicated connections to play the Knight 5. There's no aerial or ground to bother with, because it has the new built-in "Air-Magnet" loop—the perfect aerial that really reaches out and brings them in. And the batteries are self-contained, too, for amazing compactness.

• **Amazing Economy.** On both batteries and AC or DC the Knight 5 is the most economical radio ever made. On AC or DC, all five tubes operate; on batteries, one tube is automatically switched out for greater operating economy, yet performance remains just as powerful and enjoyable. Batteries are good for 200-250 hours of service before requiring replacement. Costs only a few cents a day to operate. You can't beat it for economy.

• **Powerful Reception.** The Knight 5 Portable tunes 535 to 1550 K.C. for powerful enjoyable reception of all domestic stations on the regular Broadcast band. You'll like the easy-to-tune full-view dial. Has "on-off" indicator and switch for easy change from battery operation to AC-DC operation. Dial lights up on AC-DC use.

- 5" P.M. DYNAMIC
- SAFETY SWITCHING
- WITH NAME TAG
- "ON-OFF" MARKER

• **Latest Superhet Circuit.** The Knight 5 is a powerful performer using the latest low-drain 1.4 volt tubes in an R.C.A. and Hazeltine licensed circuit of 1940 design. 1A7GT is Conv.; 1N5GT is I.F. Amp.; 1H5GT is Det.-A.V.C.-1st Audio; 3Q5GT is Power Output (on batteries); 117L7GT is Rect. Power (on electric operation).

• **Extra-Value features.** A full 5-inch P.M. Dynamic Speaker (bigger than you'll find in most portables) develops exceptionally fine tone quality. Automatic Volume Control prevents fading and assures uniform volume on all programs. Safety Switch automatically disconnects the battery pack when power line cord removed from case.

• **Smart Luggage-Type Case.** The Knight 5 is a real beauty for looks. Has airplane-luggage covering with smart woven effect in attractive airship-grey. Equipped with lid which protects tuning knobs; has handy carrying handle. Size is only 13 1/4" x 9 1/4" x 7 1/2". Carrying weight only 16 lbs. Supplied with genuine leather identification tag for your name and address.

• **Knight 5 Complete.** The Knight 5 Dual-Utility Portable Radio is offered complete as described, with tubes and batteries. A wonderful value in a versatile portable! A10855, 22 lbs. Code: HOBBY.

Retail Value, \$34.50.

NET PRICE EACH, \$17.95.

YOUR PRICE, LOTS OF 3, EACH...

\$16⁹⁵

A10033, Replacement Batteries: 1 General 1.4 volt "A" Battery and 2 General 45 Volt "B" Batteries. Shpg. Wt., 10 lbs. NET.....\$2.75



Carry It Everywhere! Play It Anywhere!



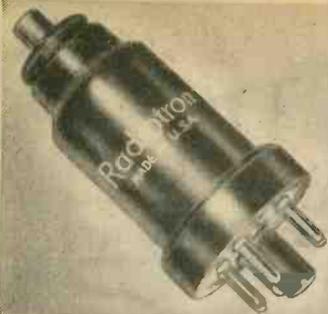
A corner of
ALLIED'S vast
stockrooms.

THESE AISLES
ARE YOUR
"Buyways"
TO MORE THAN 15,000
QUALITY RADIO PARTS

ROW AFTER ROW and shelf after shelf in ALLIED's stockrooms are packed with the largest selection of fine radio merchandise representing the choicest products of America's leading manufacturers. Walk through these wide, clean aisles, and you will see an orderly arrangement of the more than 15,000 cataloged items (over half-a-million individual parts) regularly carried in stock. Your key to that vast stock is this ALLIED Catalog.

And here on the following pages you will find a selection of absolutely everything in the radio field. For the Serviceman there is a tremendous assortment of test instruments, meters, tools, and replacement parts. For the Experimenter and Radio-Builder there is a huge variety of parts and gadgets for every circuit requirement. For the Sound specialist and for the Amateur there are complete, separate sections featuring the very finest equipment ever offered anywhere. For Schools, Industry, Broadcast Stations, and Laboratories, too, the ALLIED Catalog is the one indispensable Radio Buying Guide.

Whatever radio equipment you need, ALLIED has it in stock or can promptly get it for you. Our regular stock is the largest and finest in the country. Our insistence on the highest standards of quality, on the lowest prices, on the fastest service in the field, has made ALLIED the pre-eminent Radio Supply House in America. Use this ALLIED Catalog as your directory to ALLIED's stockrooms. Today, tomorrow, and in the long run, too, you'll save time, you'll save money—you'll get that extra measure of satisfaction which only ALLIED—America's Foremost Radio Supply House—can give you!



RADIO TUBES

R. C. A. tubes are the most widely accepted and demanded radio tubes sold today. Known everywhere—bought everywhere! R. C. A. Radiotron tubes represent a good, steady source of profit for dealers who stock them. Sold in attractive, factory-sealed cartons.

ALLIED carries all R. C. A.-Radiotrons in stock ready for immediate shipment. Take advantage of the attractive quantity discounts offered on all R. C. A. tube types. Quantity prices apply for any assortment of tube types you may order at any one time.

STANDARD GLASS TYPE TUBES

Type	Stock No.	List	NET EACH		Type	Stock No.	List	NET EACH		Type	Stock No.	List	NET EACH	
			1-24	25-UP				1-24	25-UP				1-24	25-UP
00A	A100	\$2.50	\$1.13	\$1.02	19	A140	\$1.50	\$0.71	\$0.63	58	A171	\$1.00	\$0.38	\$0.34
01A	A101	1.00	.31	.27	20	A141	3.00	1.13	1.05	59	A172	2.00	.94	.83
1A4P	A102	1.50	.71	.63	22	A142	2.50	1.00	.92	71A	A173	1.25	.43	.38
1A6	A104	1.50	.71	.63	24A	A143	1.25	.43	.38	75	A174	1.00	.38	.34
1B4P	A105	2.00	.94	.83	25Z5	A136	1.25	.48	.43	76	A175	1.00	.31	.27
1B5	A106	1.25	.59	.52	26	A144	1.00	.31	.27	77	A176	1.25	.43	.38
1C6	A107	1.50	.71	.63	27	A145	1.00	.31	.27	78	A177	1.25	.41	.36
1F4	A108	1.50	.71	.63	30	A146	1.25	.43	.38	79	A178	1.50	.71	.63
1F6	A109	2.00	.94	.83	31	A147	1.25	.43	.38	80	A179	.80	.29	.26
1V	A110	1.25	.59	.52	32	A148	2.00	.82	.73	81	A180	2.50	1.09	.97
2A3	A111	2.50	1.21	1.07	33	A149	1.50	.71	.63	82	A181	1.50	.71	.63
2A5	A112	1.25	.59	.52	34	A150	1.50	.71	.63	83	A182	1.50	.71	.63
2A6	A113	1.25	.59	.52	35/51	A151	1.25	.43	.38	83V	A183	2.50	1.09	.97
2A7	A114	1.50	.71	.63	36	A152	1.25	.59	.52	84/6Z4	A184	1.50	.71	.63
2B7	A115	1.50	.71	.63	37	A153	1.00	.43	.38	85	A185	1.25	.59	.52
5Z3	A117	1.25	.43	.38	38	A154	1.25	.59	.52	89	A186	1.25	.59	.52
6A4/LA	A119	1.50	.71	.63	39/44	A155	1.25	.59	.52	V99	A187	3.00	.70	.62
6A6	A120	1.50	.71	.63	40	A156	1.50	.71	.63	X99	A188	2.50	.70	.62
6A7	A121	1.25	.49	.43	41	A157	1.00	.38	.34	112A	A138	1.25	.43	.38
6B5	A123	2.50	1.21	1.07	42	A158	1.00	.40	.35	WD11	A194	2.50	1.09	.97
6B7	A124	1.50	.71	.63	43	A159	1.25	.52	.46	WX12	A195	2.50	1.09	.97
6C6	A125	1.00	.38	.34	45	A160	1.00	.35	.31	874	A335	4.00	1.98	1.77
6D6	A126	1.00	.38	.34	46	A161	1.50	.71	.63	876	A338	8.50	3.58	3.26
6E5	A127	1.50	.71	.63	47	A162	1.25	.52	.46	884	A339	2.12	1.90
6F7	A129	2.00	.94	.83	48	A163	4.00	1.98	1.76	885	A340	2.12	1.90
6N5	A130	1.50	.71	.63	49	A164	1.25	.59	.52	886	A341	8.50	4.25	3.65
6U5/6G5	A132	1.25	.59	.52	50	A165	3.00	1.21	1.09					
10	A137	3.00	1.35	1.21	53	A167	2.00	.94	.83					
12A7	A134	2.00	.94	.83	55	A168	1.50	.71	.63					
12Z3	A135	1.25	.59	.52	56	A169	1.00	.31	.27					
15	A139	2.00	.94	.83	57	A170	1.00	.38	.34					

SPECIAL VOLTAGE TUBES

A385, Type VR-105/30. Glow discharge type voltage regulator. NET.....\$1.25
 A386, Type VR-150/30. Glow discharge type voltage regulator. NET.....\$1.25

ALL METAL TYPE TUBES

Type	Stock No.	List	NET EACH		Type	Stock No.	List	NET EACH	
			1-24	25-UP				1-24	25-UP
0Z4	A200	\$1.50	\$0.71	\$0.63	6S7	A219	\$2.00	\$0.94	\$0.83
5T4	A201	2.00	.94	.83	6SA7	A220	1.25	.59	.52
5W4	A202	1.25	.59	.52	6SC7	A221	1.25	.59	.52
5Z4	A203	2.00	.94	.83	6SF5	A222	1.25	.59	.52
6A8	A204	1.50	.71	.63	6SJ7	A223	1.25	.59	.52
6B8	A205	2.00	.94	.83	6SK7	A224	1.25	.59	.52
6C5	A206	1.25	.59	.52	6SQ7	A225	1.25	.59	.52
6F5	A207	1.25	.59	.52	6V6	A226	2.00	.94	.83
6F6	A208	1.25	.59	.52	6X5	A227	1.50	.71	.63
6H6	A209	1.25	.59	.52	12C8	A228	2.00	.94	.83
6J5	A210	1.25	.59	.52	12SA7	A229	1.50	.71	.63
6J7	A211	1.25	.59	.52	12SC7	A230	1.50	.71	.63
6K7	A212	1.25	.59	.52	12SJ7	A231	1.25	.59	.52
6K8	A213	1.50	.71	.63	12SK7	A232	1.25	.59	.52
6L6	A214	2.50	1.09	.97	12SQ7	A233	1.25	.59	.52
6L7	A215	1.50	.71	.63	25A6	A234	2.00	.94	.83
6N7	A216	2.00	.94	.83	25L6	A235	1.50	.71	.63
6O7	A217	1.25	.59	.52	25Z6	A236	1.25	.59	.52
6R7	A218	1.50	.71	.63					

BANTAM TUBES

These ultra-compact, efficiently designed tubes are original equipment in many 1939-40 sets. Keep a stock on hand for replacement needs.

Type	Stock No.	List	NET EACH	
			1-24	25-UP
1A7GT	A290	\$2.00	\$0.94	\$0.83
1D8GT	A291	2.00	.94	.83
1H5GT	A292	2.00	.94	.83
1N5GT	A293	2.00	.94	.83
1Q5GT	A294	2.00	.94	.83
6A8GT	A297	1.25	.59	.52
6F5GT	A298	1.25	.59	.52
6J5GT	A299	1.25	.59	.52
6J7GT	A299	1.25	.59	.52
6K6GT	A251	1.25	.59	.52
6K7GT	A252	1.25	.59	.52
6Q7GT	A253	1.25	.59	.52
12A8GT	A295	1.25	.59	.52
12J7GT	A254	1.50	.71	.63
12K7GT	A255	1.25	.59	.52
12Q7GT	A256	1.25	.59	.52
25L6GT	A257	1.50	.71	.63
25Z6GT	A258	1.25	.59	.52
35L6GT	A259	1.50	.71	.63
35Z4GT	A260	1.25	.59	.52
35Z5GT	A261	1.25	.59	.52
50L6GT	A296	2.00	.94	.83

LOKALT TUBES

The new compact size all-glass tubes with elements directly connected to prongs.

Type	Stock No.	List	NET EACH	
			1-24	25-UP
7A6	A262	\$1.50	\$0.71	\$0.63
7A7	A263	1.50	.71	.63
7A8	A264	1.50	.71	.63
7B7	A265	1.50	.71	.63
7C6	A266	1.50	.71	.63
7Y4	A267	1.50	.71	.63
35A5	A268	1.50	.71	.63
35Z3	A269	1.50	.71	.63

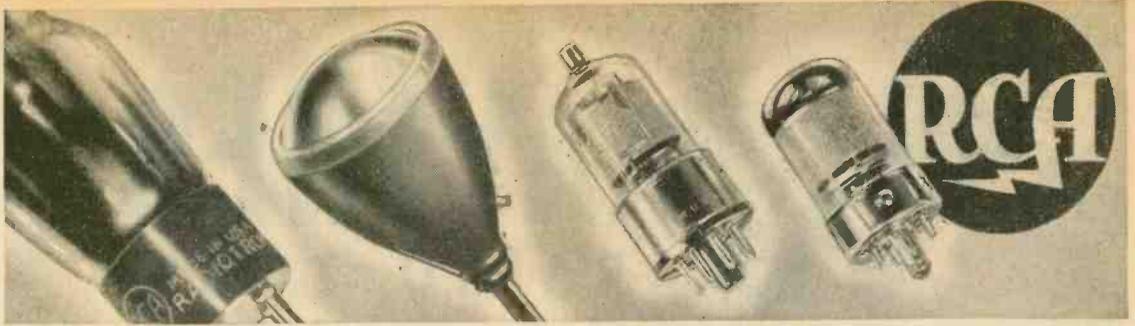
RCA TUBE MANUAL



A complete listing of technical specifications for all RCA receiving tube types. Includes typical circuit diagrams with complete constants and other important technical data. Also presents a concise discussion of vacuum tube theory. Invaluable to radio servicemen and experimenters. FREE with order for 10 RCA tubes, or sold separately. A395. NET.....25c

TUBE CHARACTERISTICS CHART

A supplementary pamphlet giving complete characteristics and specifications for newer RCA receiving tube types not listed in the Tube Manual at left. Covers complete data on new Lokalts, Bantams, etc. Useful to Servicemen and experimenters. FREE on request with orders for RCA tubes. Ask for A389.



OCTAL GLASS TYPE TUBES

Type	Stock No.	List	NET 1-24	EACH 25-UP	Type	Stock No.	List	NET 1-24	EACH 25-UP
0A4G	A400	\$2.50	\$1.09	\$0.97	6D8G	A448	\$2.00	\$0.94	\$0.83
0Z4G	A401	1.50	.71	.63	6F5G	A449	1.00	.43	.38
1A5G	A402	2.00	.94	.83	6F6G	A450	1.25	.41	.36
1A7G	A403	2.00	.94	.83	6F8G	A451	1.50	.71	.63
1C5G	A405	2.00	.94	.83	6G6G	A452	2.00	.94	.83
1C7G	A406	2.00	.94	.83	6H6G	A453	1.25	.59	.52
1D5GP	A407	2.00	.94	.83	6J5G	A454	1.25	.59	.52
1D7G	A409	1.50	.71	.63	6J7G	A455	1.25	.59	.52
1E5GP	A410	2.00	.94	.83	6K5G	A457	1.25	.59	.52
1E7G	A412	3.00	1.47	1.32	6K6G	A458	1.25	.59	.52
1F5G	A413	2.00	.94	.83	6K7G	A459	1.25	.41	.36
1F7GV	A414	2.00	.94	.83	6L5G	A461	2.00	.94	.83
1G4G	A415	1.50	.71	.63	6L6G	A462	2.00	.94	.83
1G5G	A416	1.50	.71	.63	6L7G	A463	1.50	.71	.63
1G6G	A417	2.00	.94	.83	6N6G	A464	2.50	1.21	1.07
1H4G	A418	1.00	.43	.38	6N7G	A466	1.50	.71	.63
1H5G	A419	2.00	.94	.83	6Q7G	A470	1.25	.59	.52
1H6G	A420	1.50	.71	.63	6R7G	A471	1.25	.59	.52
1J6G	A422	1.50	.71	.63	6S7G	A472	2.00	.94	.83
1N5G	A423	2.00	.94	.83	6T7G	A473	2.00	.94	.83
5U4G	A429	1.25	.59	.52	6U7G	A474	1.25	.59	.52
5V4G	A430	2.50	1.21	1.07	6V6G	A475	1.50	.71	.63
5X4G	A432	1.50	.71	.63	6W7G	A478	2.00	.94	.83
5Y3G	A433	.80	.29	.26	6X5G	A479	1.50	.71	.63
5Y4G	A434	1.00	.43	.38	6Y6G	A480	2.00	.94	.83
6A8G	A437	1.25	.47	.42	6Z7G	A483	2.00	.94	.83
6AC5G	A438	1.25	.59	.52	6ZY5G	A482	1.25	.59	.52
6AF6G	A442	1.50	.71	.63	25A6G	A484	1.25	.59	.52
6B6G	A444	2.00	.94	.83	25A7G	A485	2.00	.94	.83
6B8G	A445	2.00	.94	.83	25B6G	A488	2.00	.94	.83
6C5G	A446	1.25	.59	.52	25L6G	A489	1.50	.71	.63
6C8G	A447	1.50	.71	.63	25Z6G	A490	1.25	.59	.52

TELEVISION TUBES

Here is the complete line of RCA Television Tubes for video receivers. Designed after years of experimentation, these tubes incorporate all of the latest developments of RCA's television engineers. Complete technical information on all types is available on request. For television receiver parts, see pages 120, 132 and 172.

A380. 3AP4/90P4. 3" diameter Kinescope. For black and white reproduction of television pictures. **NET..... \$13.75**

A382. 5BP4/1802P4. 5" diameter Kinescope. Produces black and white pictures. **NET..... \$22.00**

A376. 9AP4/1804P4. 9" diameter Kinescope. Produces 5 1/2 x 7 1/2" black and white pictures. **NET..... \$50.00**

A375. 12AP4/1803P4. 12" diameter Kinescope. For brilliant black and white reproduction of pictures in 7 1/2 x 10" size. **NET..... \$60.00**

A301. 2V3G. Half-wave, high vacuum rectifier for television receiver circuit. **\$1.95 NET.....**

A373. 6AC7/1852. Television amplifier pentode tube. **NET..... \$1.60**

A374. 6AB7/1853. Television amplifier pentode tube. **NET..... \$1.60**

A303. 6AG7. Television amplifier pentode tube. **NET..... \$1.80**

A337. 879. Half-wave, high vacuum rectifier for television receiver circuit. **\$1.30 NET.....**

A370. 1800. Electro-magnetic deflection type with 9" screen. Produces pictures with yellowish hue. **NET..... \$60.00**

A371. 1801. Electro-magnetic deflection type with 5" screen. Produces pictures with yellowish hue. **NET..... \$40.00**

A381. 1802PI. 5" diameter Kinescope. Brilliant green pattern type. **\$24.75 NET.....**

A383. 1899 Monoscope. With test pattern for scanning tests of pictures transmission equipment. **NET..... \$95.00**

A372. 1851. Television pentode metal tube for use in R. F. and I. F. stages of receivers. **NET..... \$2.10**

A377. 1620. A triple-grid detector-amplifier metal tube for applications requiring low microphonic and noise response. **NET..... \$2.50**

A378. 1621. A power amplifier pentode metal tube for use where extremely low distortion and continuity of service are demanded. **NET..... \$2.50**

A379. 1622. A beam power amplifier metal tube for use where extremely low distortion and continuity of service are required. **NET..... \$2.75**

PRACTICAL TELEVISION BY RCA

An unusually informative new booklet containing a comprehensive discussion of the RCA Television System. Covers video receiver design and servicing requirements, television antennas, interference elimination, etc. Has glossary defining television terms. Size: 8 1/2 x 11". 40 pages.



A390. NET..... 25c

BOOST TUBE SALES WITH THESE RCA SALES AIDS



Boost your sales of RCA Radiotrons by means of these attractive and useful sales aids. Let your customers know that you stock RCA tubes—the tubes with the widest customer acceptance in the world.

Fig. A. RCA Service Engineer's Pencil. An unusually versatile automatic pencil. Barrel has sliding drums for standard resistor color-code guide. Helps you to determine resistor value quickly. Handy non-metallic screwdriver is easily accessible beneath the cap. Resistor drums are of special celluloid composition with wear-proof colors. With handy pocket clip. **FREE** with order for 50 RCA tubes, or sold separately. **A391. NET..... \$1.00**

Fig. B. Tube Test Stickers. A roll of 2,000 perforated gummed labels, 1 1/4" x 1 1/4". Imprinted with your name, address, and city. Have space to mark date and tube condition. Will not char on metal tubes. Offer a handy way of recording the condition of your customers' tubes. **FREE** with order for 50 RCA tubes. **A392. NET..... \$1.00**

Fig. C. O.K. Tags. A handy way to keep track of your radio service work. Each ticket has a separate line for each operation to be performed together with the date of repair. Also has space for customer's name, address, etc. These tags will help you to systematize service routine. 10 Tags **FREE** with order for 5 RCA tubes. Give your repair work real system and save confusion. Ask for A393.

With your next tube order, ask for your free copy of the **RCA Sales Aid Catalog**. Shows you all the materials available and tells how to secure them. Ask for this catalog under number A398; it will be sent promptly.

Fig. D. Decalcomania. An attractive two-color decalcomania transfer sticker for window of your store or car. Identifies your shop as an RCA tube dealer. This popular window sign is available **FREE** with order for RCA tubes. Ask for A394. Will help bring in customers and make sales.

Fig. E. Price Cards. An up-to-date price list for your stock of tubes is a necessity. This RCA Radiotron list shows prices for all RCA tubes. Also includes, on the reverse side, a complete interchangeable tabulation for obsolete types and brands. **FREE** with order for RCA tubes. Ask for A395.

Fig. F. Dummy Cartons. Ideal for window or counter display use. 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. You can use these cartons for many attractive displays. Ask for A397.

Other RCA Sales and Display Aids not illustrated include: **PindeX**—for locating tube pin connections; **Outdoor Sign**—attractive metal type; **Neon Bulb**—a fine night-time display showing RCA trade-mark; and many other productive and useful items available either at low cost or **Free** with your tube orders. Be sure to get them.

RAYTHEON

RADIO TUBES

RAYTHEON tubes are noted for long life, silent operation, and brilliant tonal reproduction. For better results and for sure customer satisfaction and good-will, use Raytheon tubes for all replacements. The complete RAYTHEON line, including Resistance and Panel type bulbs, is listed on this and the next page. We stock the complete line.

Take advantage of the real savings offered by our attractive discount schedule for Raytheon Tubes. Tubes may be assorted for quantity prices. We carry the complete line of Raytheon Tubes in stock at all times. Depend on Allied to have available all new types of Raytheon tubes as soon as they are released.

STANDARD GLASS TYPE TUBES

Type	Stock No.	List	NET EACH		Type	Stock No.	List	NET EACH		Type	Stock No.	List	NET EACH	
			1-24	25-UP				1-24	25-UP				1-24	25-UP
00A	A500	\$1.70	\$0.92	\$0.85	12A7	A534	\$1.70	\$0.92	\$0.85	55	A568	\$1.25	\$0.67	\$0.63
01A	A501	.75	.40	.38	12Z3	A535	1.10	.59	.55	56	A569	.60	.32	.30
1A4P	A502	1.25	.67	.63	25Z5	A536	.90	.48	.45	57	A570	.75	.40	.38
1A6	A503	1.25	.67	.63	10	A537	1.70	.92	.85	58	A571	.75	.40	.38
1B4	A504	1.25	.67	.63	12A	A538	1.10	.59	.55	59	A572	1.70	.92	.85
1B5	A505	1.70	.92	.85	15	A539	1.70	.92	.85	71A	A573	.75	.40	.38
1C6	A506	1.10	.59	.55	19	A540	1.25	.67	.63	75	A574	.75	.40	.38
1F4	A507	1.25	.67	.63	20	A541	1.70	.92	.85	76	A575	.75	.40	.38
1F6	A508	1.25	.67	.63	22	A542	1.70	.92	.85	77	A576	.90	.48	.45
1V	A509	1.70	.92	.85	24A	A543	.75	.40	.38	78	A577	.75	.40	.38
2A3	A510	1.10	.59	.55	26	A544	.60	.32	.30	79	A578	1.25	.67	.63
2A5	A511	1.70	.92	.85	27	A545	.60	.32	.30	80	A579	.60	.32	.30
2A6	A512	1.10	.59	.55	30	A546	.75	.40	.38	81	A580	1.70	.92	.85
2A7	A513	1.10	.59	.55	31	A547	1.10	.59	.55	82	A581	1.25	.67	.63
2B7	A514	1.25	.67	.63	32	A548	1.70	.92	.85	83	A582	1.25	.67	.63
2E5	A515	1.25	.67	.63	33	A549	1.25	.67	.63	83V	A583	1.70	.92	.85
5Z3	A516	1.25	.67	.63	34	A550	1.25	.67	.63	84	A584	1.25	.67	.63
6A3	A517	.75	.40	.38	35/51	A551	.75	.40	.38	85	A585	1.10	.59	.55
6A4	A518	1.70	.92	.85	36	A552	1.10	.59	.55	89	A586	1.10	.59	.55
6A6	A519	1.25	.67	.63	37	A553	.90	.48	.45	V99	A587	1.70	.92	.85
6A7	A520	1.25	.67	.63	38	A554	1.10	.59	.55	X99	A588	1.70	.92	.85
6AB5	A521	.90	.48	.45	39/44	A555	1.10	.59	.55	182B	A589	1.70	.92	.85
6B5	A522	1.25	.67	.63	40	A556	1.25	.67	.63	183	A590	1.70	.92	.85
6B7	A523	1.70	.92	.85	41	A557	.75	.40	.38	485	A591	1.70	.92	.85
6C6	A524	1.25	.67	.63	42	A558	.75	.40	.38	950	A592	1.70	.92	.85
6D6	A525	.75	.40	.38	43	A559	.90	.48	.45	951	A505	1.70	.92	.85
6E5	A526	.75	.40	.38	44	A560	.75	.40	.38	WD11	A594	1.70	.92	.85
6E6	A527	1.25	.67	.63	46	A561	1.25	.67	.63	WX12	A595	1.70	.92	.85
6E7	A528	1.70	.92	.85	47	A562	.90	.48	.45	BA	A596	6.50	3.51	3.25
6F7	A529	1.70	.92	.85	48	A563	1.70	.92	.85	BH	A597	3.65	1.97	1.82
6N5	A530	1.25	.67	.63	49	A564	1.10	.59	.55	BR	A598	2.65	1.43	1.33
6T5	A531	1.25	.67	.63	50	A565	1.70	.92	.85	LA	A599	1.25	.67	.63
6U5	A532	1.10	.59	.55	52	A566	1.70	.92	.85					
12A5	A533	1.70	.92	.85	53	A567	1.70	.92	.85					

ALL-METAL TYPE TUBES

Type	Stock No.	List	NET EACH		Type	Stock No.	List	NET EACH	
			1-24	25-UP				1-24	25-UP
0Z4	A600	\$1.25	\$0.67	\$0.63	6S7	A619	\$1.70	\$0.92	\$0.85
5T4	A601	1.70	.92	.85	6SA7	A620	1.10	.59	.55
5W4	A602	1.10	.59	.55	6SC7	A621	1.10	.59	.55
5Z4	A603	1.70	.92	.85	6SF5	A622	1.10	.59	.55
6A8	A604	1.25	.67	.63	6SJ7	A623	1.10	.59	.55
6B8	A605	1.70	.92	.85	6SK7	A624	1.10	.59	.55
6C5	A606	1.10	.59	.55	6SQ7	A625	1.10	.59	.55
6F5	A607	1.10	.59	.55	6V6	A626	1.70	.92	.85
6F6	A608	1.10	.59	.55	6X5	A627	1.25	.67	.63
6H6	A609	1.10	.59	.55	12C8	A628	1.70	.92	.85
6J5	A610	1.10	.59	.55	12SA7	A629	1.25	.67	.63
6J7	A611	1.10	.59	.55	12S7C	A630	1.25	.67	.63
6K7	A612	1.10	.59	.55	12SJ7	A631	1.10	.59	.55
6K8	A613	1.25	.67	.63	12SK7	A632	1.10	.59	.55
6L6	A614	1.70	.92	.85	12SQ7	A633	1.10	.59	.55
6L7	A615	1.25	.67	.63	25A6	A634	1.25	.67	.63
6N7	A616	1.70	.92	.85	25L6	A635	1.25	.67	.63
6Q7	A617	1.10	.59	.55	25Z6	A636	1.10	.59	.55
6R7	A618	1.25	.67	.63					

NEW LOKTAL TUBES

New pee-wee sized all-glass tubes with improved operating efficiency. Elements are directly connected to prongs. Used in latest sets.

Type	Cat. No.	List	NET EACH	
			1-24	25-UP
1LA4	A853	\$1.70	\$0.92	\$0.85
1LA6	A854	1.70	.92	.85
1LH4	A855	1.70	.92	.85
1LN5	A856	1.70	.92	.85
7A4	A838	1.25	.67	.63
7A6	A839	1.25	.67	.63
7A7	A840	1.25	.67	.63
7A8	A841	1.25	.67	.63
7B5	A842	1.25	.67	.63
7B6	A843	1.25	.67	.63
7B7	A844	1.25	.67	.63
7B8	A845	1.25	.67	.63
7C5	A846	1.25	.67	.63
7C6	A847	1.25	.67	.63
7C7	A848	1.25	.67	.63
7E6	A849	1.25	.67	.63
7Y4	A850	1.25	.67	.63
12B7	A851	1.25	.67	.63
35A5	A852	1.25	.67	.63
35Z3	A852	1.25	.67	.63

TELEVISION TUBES

RAYTHEON is developing a complete line of television tubes. These tubes will be released only after thorough laboratory tests and practical trial in the field. Complete technical details and prices will be made available shortly.

TECHNICAL DATA



TECHNICAL CHART

Latest edition. Invaluable to every dealer and serviceman. Contains complete, up-to-the-minute technical data on all Raytheon receiving tubes; new base design diagrams, and complete tube characteristics. We offer this chart free with your order for Raytheon tubes. A897...FREE

RAYTHEON DATABOOK

An education in all receiving type tubes. Covers maximum ratings and essential characteristics. Also gives operating curves for all active tubes. Includes data on resistance tubes and on panel lamps. Have tube information on hand when you need it. 248 pages; in sturdy binding. A898. NET...25c



40 WE ARE HEADQUARTERS FOR ALL REPLACEMENT PARTS



OCTAL GLASS TYPE TUBES

Type	Stock No.	List	NET 1-24	EACH 25-UP	Type	Stock No.	List	NET 1-24	EACH 25-UP
0A4G	A700	\$1.70	\$0.92	\$0.85	6C5G	A746	\$1.10	\$0.59	\$0.55
0Z4G	A701	1.25	.67	.63	6C8G	A747	1.25	.67	.63
1A5G	A702	1.70	.92	.85	6D8G	A748	1.70	.92	.85
1A7G	A703	1.70	.92	.85	6F5G	A749	.90	.48	.45
1B7G	A704	1.70	.92	.85	6F6G	A750	.75	.40	.38
1C5G	A705	1.70	.92	.85	6F8G	A751	1.25	.67	.63
1C7G	A706	1.70	.92	.85	6G6G	A752	1.70	.92	.85
1D5GP	A707	1.70	.92	.85	6H6G	A753	1.10	.59	.55
1D5GT	A708	1.70	.92	.85	6J5G	A754	1.10	.59	.55
1D7G	A709	1.25	.67	.63	6J7G	A755	1.10	.59	.55
1E4G	A710	1.25	.67	.63	6J8G	A756	1.70	.92	.85
1E5G	A711	1.70	.92	.85	6K5G	A757	1.10	.59	.55
1E7G	A712	1.70	.92	.85	6K6G	A758	1.10	.59	.55
1F5G	A713	1.70	.92	.85	6K7G	A759	.75	.40	.38
1F7G	A714	1.70	.92	.85	6K8G	A760	1.25	.67	.63
1G4G	A715	1.25	.67	.63	6L5G	A761	1.70	.92	.85
1G5G	A716	1.25	.67	.63	6L6G	A762	1.70	.92	.85
1G6G	A717	1.25	.67	.63	6L7G	A763	1.25	.67	.63
1H4G	A718	.90	.48	.45	6N6G	A764	1.70	.92	.85
1H5G	A719	1.70	.92	.85	6N6MG	A765	1.70	.92	.85
1H6G	A720	1.25	.67	.63	6N7G	A766	1.25	.67	.63
1J5G	A721	1.70	.92	.85	6P5G	A767	1.10	.59	.55
1J6G	A722	1.25	.67	.63	6P7G	A768	1.70	.92	.85
1N5G	A723	1.70	.92	.85	6Q6G	A769	1.70	.92	.85
1N6G	A724	1.70	.92	.85	6Q7G	A770	1.10	.59	.55
1P5G	A725	1.70	.92	.85	6R7G	A771	1.10	.59	.55
1Q5G	A726	1.70	.92	.85	6S7G	A772	1.70	.92	.85
2A4G	A727	1.70	.92	.85	6T7G	A769	1.70	.92	.85
4A6G	A728	1.70	.92	.85	6U7G	A774	1.10	.59	.55
5U4G	A729	1.10	.59	.55	6V6G	A775	1.25	.67	.63
5V4G	A730	1.70	.92	.85	6V7G	A776	1.25	.67	.63
5W4G	A731	.90	.48	.45	6W5G	A777	1.25	.67	.63
5X4G	A732	1.25	.67	.63	6W7G	A778	1.70	.92	.85
5Y3G	A733	.60	.32	.30	6X5G	A779	1.25	.67	.63
5Y4G	A734	.90	.48	.45	6Y6G	A780	1.70	.92	.85
5Z4MG	A735	1.70	.92	.85	6Y7G	A781	1.25	.67	.63
6A5G	A736	1.70	.92	.85	6Z5G	A782	1.10	.59	.55
6A8G	A737	.90	.48	.45	6Z7G	A783	1.70	.92	.85
6AC5G	A738	1.10	.59	.55	25A6G	A784	1.10	.59	.55
6AD6G	A739	1.25	.67	.63	25A7G	A785	1.70	.92	.85
6AE5G	A740	1.10	.59	.55	25AC5G	A786	1.25	.67	.63
6AE6G	A741	1.10	.59	.55	25B6G	A788	1.70	.92	.85
6AF6G	A742	1.25	.67	.63	25C6G	A787	1.25	.67	.63
6B4G	A743	1.70	.92	.85	25L6G	A789	1.25	.67	.63
6B6G	A744	1.70	.92	.85	25Z6G	A790	1.10	.59	.55
6B8G	A745	1.70	.92	.85	11Z6G	A791	1.70	.92	.85

MAJESTIC SHIELDED TUBES

Type	No.	List	NET
24S	A864	\$1.25	\$0.67
27S	A865	1.10	.59
35S	A866	1.25	.67
55S	A867	1.70	.92
56AS	A868	1.25	.67
56S	A869	1.25	.67
57S	A870	1.70	.92
57AS	A871	1.70	.92
58AS	A872	1.70	.92
58AS	A873	1.70	.92
75S	A874	1.70	.92
85AS	A875	1.70	.92
2A7S	A876	2.20	1.19
2B7S	A877	2.20	1.19
6A7S	A878	2.20	1.19
6B7S	A879	2.20	1.19
6C7	A880	1.70	.92
6D7	A881	1.70	.92
6E7	A882	1.70	.92
6F7S	A883	1.70	.92
6Y5	A884	1.70	.92
25-45	A885	2.65	1.43
2Z2/G84	A886	1.70	.92
6Z5	A887	1.70	.92

RAYTHEON PANEL BULBS

Typical Raytheon quality is built into these high-grade pilot light bulbs. They are famous for their long life and efficiency and at our low prices are cheaper in the long run than inferior foreign-made bulbs. Buy in lots of ten and save more money. (Bulbs R51 and R55 are Automotive Types.)



REGULAR PANEL TYPES

No.	Type	Volts	Amps	EACH	PER 10
A2267	R40	6-8	.15	9c	\$0.53
A2268	R40A*	6-8	.15	12c	.71
A2269	R41	2.5	.50	9c	.53
A2270	R42	3.2	.50	12c	.71
A2271	R43*	2.5	.50	10c	.59
A2272	R44*	6-8	.25	9c	.53
A2273	R45*	3.2	.50	12c	.71
A2274	R46	6-8	.25	9c	.53
A2275	R48	2.0	.06	20c	1.18
A2276	R49*	2.0	.06	22c	1.29
A2277	R49A*	2.1	.12	22c	1.29
A2278	R50*	6-8	.20	10c	.59
A2279	R292	2.9	.17	10c	.59
A2280	R292A*	2.9	.17	14c	.82

AUTOMOTIVE TYPES

No.	Type	Volts	Amps	EACH	PER 10
A2281	R51†*	6-8	.20	7c	.41
A2282	R51†*	6-8	.40	7c	.41

*Miniature bayonet base; all others screw base. †Small round bulb.

NEW BANTAM TUBES

Exceptionally efficient new midjet-size tubes.

Type	No.	List	NET 1-24	EACH 25-UP
1A5GT	A901	\$1.70	\$0.92	\$0.85
1A7GT	A793	1.70	.92	.85
1C5GT	A794	1.70	.92	.85
1H5GT	A795	1.70	.92	.85
1N5GT	A796	1.70	.92	.85
1Q5GT	A902	1.70	.92	.85
1T5GT	A903	1.70	.92	.85
3Q5GT	A904	1.70	.92	.85
6A8GT	A797	1.10	.59	.55
6F5GT	A798	1.10	.59	.55
6H4GT	A799	1.25	.67	.63
6H6GT	A800	1.10	.59	.55
6J5GT	A801	1.10	.59	.55
6J7GT	A802	1.10	.59	.55
6K5GT	A803	1.10	.59	.55
6K6GT	A804	1.10	.59	.55
6K7GT	A805	1.10	.59	.55
6K8GT	A806	1.25	.67	.63
6P5GT	A807	1.10	.59	.55
6Q7GT	A808	1.10	.59	.55
6S47GT	A809	1.10	.59	.55
6S7GT	A810	1.10	.59	.55
6S7GT	A811	1.10	.59	.55
6S7GT	A812	1.10	.59	.55
6S7GT	A813	1.10	.59	.55
6V6GT	A814	1.25	.67	.63
6X5GT	A815	1.25	.67	.63
12A8GT	A816	1.10	.59	.55
12B8GT	A817	1.70	.92	.85
12F5GT	A818	1.10	.59	.55
12J5GT	A819	1.25	.67	.63
12J7GT	A820	1.25	.67	.63
12K7GT	A821	1.10	.59	.55
12Q7GT	A822	1.10	.59	.55
12S47GT	A823	1.25	.67	.63
12S7GT	A824	1.10	.59	.55
12S7GT	A825	1.10	.59	.55
12SK7GT	A826	1.10	.59	.55
12SQ7GT	A827	1.10	.59	.55
25A6GT	A905	1.10	.59	.55
25A7GT	A828	1.70	.92	.85
25B8GT	A906	1.70	.92	.85
25C6GT	A829	1.25	.67	.63
25Z6GT	A830	1.10	.59	.55
32L7GT	A831	1.70	.92	.85
35L6GT	A832	1.25	.67	.63
35Z4GT	A833	1.10	.59	.55
35Z5GT	A834	1.10	.59	.55
45Z5GT	A835	1.10	.59	.55
50L6GT	A836	1.70	.92	.85
70L7GT	A907	1.70	.92	.85
11Z6GT	A908	1.70	.92	.85

RAYTHEON RESISTANCE TUBES

GLASS BULB TYPES

Type	No.	Type	No.	Type	No.
IA1	A2815*	165R4	A2823	NB2	A2829
1B1	A2816*	165R8	A2824	NB3	A2830
60R30G	A2817	185R	A2825	NB4	A2831
140R	A2818	185R4	A2826	NB5	A2832
140R8	A2819	185R8	A2827	NB6	A2833
140R8	A2820	878R48	A2828	NB7	A2834
165L4	A2821	NB1	A2828	NB8	A2835
165R	A2822				

List Price, \$0.80. NET EACH.....43c

*These two types list at \$1.25. NET EACH 6c

SMALL METAL SHELL TYPE

Type	No.	Type	No.	Type	No.
L36B	A2836	L42D	A2844	L49D	A2852
42A	A2837	49A	A2845	K55B	A2853
K42B	A2838	K49B	A2846	K55C	A2854
K42C	A2839	K49C	A2847	K55D	A2855
K42D	A2840	K49CB	A2848	L55B	A2856
K42E	A2841	K49D	A2849	L55C	A2857
L42B	A2842	L49B	A2850	L55D	A2858
L42C	A2843	L49C	A2851	M73B	A2869

LARGE PERFORATED METAL SHELL TYPE

Type	No.	Type	No.	Type	No.
42A1	A2859	49A1	A2862	55A1	A2865
42A2	A2860	49A2	A2863	55A2	A2866
42B2	A2861	49B2	A2864	55B2	A2867

List Price, \$0.80. YOUR PRICE EACH.....43c

KNIGHT



RADIO TUBES

DEPENDABLE VALUE LEADERS

The popular Knight line of radio tubes offers a complete selection of standard glass, octal-glass and metal types. You can undersell all competition with this line of superior quality tubes. Features quality and attractive factory-sealed packaging.

EXTRA QUANTITY DISCOUNT

In lots of 25 or more, we offer Knight tubes at special low prices. Buy in quantities for extra savings and profits. Put in a stock of fast moving types for quick, easy sales. Offer Knight tubes as special-value leaders to increase traffic and sales in your store.

STANDARD GLASS TYPE TUBES

Type	List	NET EACH		Type	List	NET EACH		Type	List	NET EACH		Type	List	NET EACH	
		1-24	25-UP			1-24	25-UP			1-24	25-UP			1-24	25-UP
01A	\$1.00	\$0.29	\$0.27	6B7	\$1.50	\$0.56	\$0.53	31	\$1.25	\$0.38	\$0.35	56	\$1.00	\$0.26	\$0.24
1A4	1.50	.61	.58	6C6	1.00	.34	.31	32	2.00	.68	.64	57	1.00	.33	.31
1A6	1.50	.61	.58	6D6	1.00	.34	.31	33	1.50	.54	.51	58	1.00	.33	.31
1B4	2.00	.65	.61	6E5	1.50	.54	.51	34	1.50	.61	.58	59	2.00	.72	.68
1B5	1.25	.54	.51	6F7	2.00	.77	.73	35/51	1.25	.38	.35	71A	1.25	.33	.31
1C6	1.50	.61	.58	6G5	1.25	.52	.49	36	1.50	.50	.47	75	1.00	.34	.31
1F4	1.50	.61	.58	6T5	1.50	.54	.51	37	1.00	.38	.35	76	1.00	.26	.24
1F6	2.00	.65	.61	6U5	1.25	.52	.49	38	1.25	.54	.51	77	1.25	.38	.35
1V	1.25	.42	.39	10	3.00	.85	.81	39/44	1.25	.46	.43	78	1.25	.36	.33
2A3	2.50	.69	.64	12A	1.25	.43	.40	41	1.00	.34	.31	79	1.50	.63	.58
2A5	1.25	.54	.51	12A7	2.00	.59	.56	42	1.00	.35	.32	80	.80	.26	.24
2A6	1.25	.54	.51	12Z3	1.25	.53	.50	43	1.25	.41	.39	81	2.50	.85	.81
2A7	1.50	.63	.59	19	1.50	.47	.44	45	1.00	.31	.29	82	1.50	.54	.51
2B6	3.00	1.06	1.00	22	2.50	.88	.83	46	1.50	.63	.59	83	1.50	.50	.47
2B7	1.50	.61	.58	24A	1.25	.37	.35	47	1.25	.47	.45	83V	2.50	.81	.77
5Z3	1.25	.37	.35	25B5	1.25	.60	.57	48	4.00	.85	.81	84/6Z4	1.50	.47	.44
6A4	1.50	.63	.59	25Z5	1.25	.39	.37	49	1.25	.46	.43	85	1.25	.46	.43
6A6	1.50	.58	.55	26	1.00	.26	.24	50	3.00	.85	.81	89	1.25	.50	.47
6A7	1.25	.43	.40	27	1.00	.26	.24	53	2.00	.75	.71	V99	3.00	.61	.59
6B5	2.50	.65	.61	30	1.25	.32	.30	55	1.50	.63	.60	X99	2.50	.61	.59

OCTAL BASE GLASS TUBES

Type	List	NET EACH		Type	List	NET EACH	
		1-24	25-UP			1-24	25-UP
0Z4G	\$1.50	\$0.61	\$0.58	6G6G	\$2.00	\$0.53	\$0.50
1A5G	2.00	.75	.71	6H6G	1.25	.41	.39
1A7G	2.00	.75	.71	6J5G	1.25	.38	.36
1C5G	2.00	.75	.71	6J7G	1.25	.48	.45
1C7G	2.00	.63	.60	6K5G	1.25	.45	.42
1D5G	2.00	.61	.58	6K6G	1.25	.41	.39
1D7G	1.50	.61	.58	6K7G	1.25	.39	.36
1E5G	2.00	.61	.58	6K8G	2.00	.58	.55
1E7G	3.00	.85	.81	6L5G	2.00	.50	.47
1F5G	2.00	.56	.53	6L6G	2.00	.77	.73
1F7G	2.00	.65	.61	6L7G	1.50	.59	.56
1G5G	1.50	.63	.60	6N6G	2.50	.69	.65
1H4G	1.00	.33	.31	6N7G	1.50	.59	.56
1H5G	2.00	.75	.71	6Q7G	1.25	.42	.40
1H6G	1.50	.53	.51	6R7G	1.25	.47	.44
1J6G	1.50	.47	.44	6S7G	2.00	.51	.48
1N5G	2.00	.75	.71	6T7G	2.00	.53	.50
5U4G	1.25	.40	.38	6U7G	1.25	.44	.41
5V4G	2.50	.63	.60	6V6G	1.50	.50	.47
5X4G	1.50	.40	.38	6X5G	1.50	.48	.45
5Y3G	.80	.27	.25	6Y6G	2.00	.50	.47
5Y4G	1.00	.28	.26	6Z7G	2.00	.75	.71
6A8G	1.25	.42	.39	6ZY5G	1.25	.50	.47
6AC5G	1.25	.40	.38	25A6G	1.25	.45	.42
6B8G	2.00	.59	.56	25A7G	2.00	.61	.58
6C5G	1.25	.41	.39	25B6G	2.00	.53	.50
6C8G	1.50	.60	.57	25L6G	1.50	.50	.47
6D8G	2.00	.60	.57	25L6GT	1.50	.59	.56
6F5G	1.00	.37	.35	25Z6G	1.25	.42	.40
6F6G	1.25	.36	.33	25Z6GT	1.25	.50	.47
6F8G	1.50	.59	.56				

ALL-METAL TYPE TUBES

Type	List	NET EACH		Type	List	NET EACH	
		1-24	25-UP			1-24	25-UP
0Z4	\$1.50	\$0.59	\$0.56	6N7	\$2.00	\$0.78	\$0.74
5T4	2.00	.82	.78	6Q7	1.25	.52	.49
5W4	1.25	.45	.42	6R7	1.50	.61	.57
5Z4	2.00	.82	.78	6S7	2.00	.82	.78
6A8	1.50	.68	.64	6SA7	1.25	.52	.49
6B8	2.00	.78	.74	6SC7	1.25	.52	.49
6C5	1.25	.52	.49	6SF5	1.25	.52	.49
6F5	1.25	.52	.49	6SJ7	1.25	.52	.49
6F6	1.25	.52	.49	6SK7	1.25	.52	.49
6H6	1.25	.52	.49	6SQ7	1.25	.52	.49
6J5	1.25	.52	.49	6S7	2.00	.78	.74
6J7	1.25	.52	.49	6X5	1.50	.63	.59
6K7	1.25	.52	.49	25A6	2.00	.68	.64
6K8	1.50	.63	.59	25L6	1.50	.61	.57
6L6	2.50	.85	.81	25Z6	1.25	.51	.49
6L7	1.50	.63	.59				

HYTRON BANTAM TUBES



These new tubes represent one of the latest developments in radio tube manufacture. With "T" Bulb and Octal Base, they measure only 1 1/4" in diameter and range from 2 1/4" to 3 3/8" in overall height. Unique electronic design and mechanical structure assure excellent characteristics and rugged dependability. Hytron "Bantams" are built of finest quality materials and are subjected to rigorous factory tests. Many manufacturers of compact receivers are now using Hytron "Bantams" as original equipment.



Put in a supply to take care of replacement needs. For your protection these tubes are packed in individual factory-sealed cartons.

Type	No.	List	NET	Type	No.	List	NET
1A5GT	A925	\$2.00	\$0.91	6W6GT	A952	\$1.50	\$0.69
1A7GT	A926	2.00	.91	6X5GT	A953	1.50	.69
1C5GT	A927	2.00	.91	12A8GT	A954	1.25	.44
1H5GT	A928	2.00	.91	12B8GT	A955	2.00	.91
1N5GT	A929	2.00	.91	12F5GT	A956	1.25	.41
1Q5GT	A930	2.00	.91	12J7GT	A957	1.50	.55
1T5GT	A931	2.00	.91	12K7GT	A958	1.25	.37
2W3GT	A932	1.25	.36	12Q7GT	A959	1.25	.55
6AC5GT	A933	1.25	.55	12S4GT	A960	1.50	.57
6A8GT	A934	1.25	.44	12SF5GT	A961	1.25	.43
6C5GT	A935	1.25	.55	12S7GT	A962	1.25	.57
6F5GT	A936	1.25	.41	12SK7GT	A963	1.25	.57
6H6GT	A937	1.25	.51	12SQ7GT	A964	1.25	.57
6J5GT	A938	1.25	.55	25A6GT	A965	1.25	.55
6J7GT	A939	1.25	.55	25A7GT	A966	2.00	.91
6K5GT	A940	1.25	.55	25B8GT	A967	2.00	.91
6K6GT	A941	1.25	.55	25L6GT	A968	1.50	.65
6K7GT	A942	1.25	.37	25X6GT	A969	1.25	.55
6K8GT	A943	1.50	.69	25Z6GT	A970	1.25	.55
6P5GT	A944	1.25	.36	35L7GT	A971	2.00	.91
6Q7GT	A945	1.25	.55	35L6GT	A972	1.50	.65
6R7GT	A946	1.25	.55	35Z4GT	A973	1.25	.55
6SA7GT	A947	1.25	.57	35Z5GT	A974	1.25	.55
6SF5GT	A948	1.25	.43	45Z5GT	A975	1.25	.55
6S7GT	A949	1.25	.57	50L6GT	A976	2.00	.65
6SK7GT	A950	1.25	.57	70L7GT	A977	2.00	.91
6SQ7GT	A951	1.25	.57				

NEW BANTAM JR. TUBES

These are the new "Tiny" tubes which measure only 2 3/8" in height overall. "Bantam Jr." tubes by Hytron are mechanically and electrically designed to render unusually efficient service despite their small size. These tubes are ideal for use wherever a very small tube is required such as in hearing-aid units. Require 1.4 volts for filament. See page 59 for adapters to fit. Complete technical data is available on request.

Type	No.	Class	Application	NET
HY113	A978	TRIODE	General Purpose	\$1.71
HY115	A977	PENTODE	A. F. Interstage	2.45
HY125	A980	PENTODE	A. F. Pwr. Output Amp.	2.45
A4569. BANTAM JR. SOCKET. NET				10c

BALLAST TUBES • BULBS • NEON LAMPS



KNIGHT BALLAST RESISTORS

New metal-shell ballast tubes for replacement in A.C.-D.C. sets. Identical to originals in electrical characteristics and base connections. Require no rewiring; simply remove old defective ballast tube and replace with the proper Knight Ballast tube. Sturdily built for long life. Will give proper performance.

No.	Type	Replaces
A1018	K23B	BK23B
A1019	K36B	BK36B
A1000	K42B	BK42B, K42BG
A1020	K42C	BK42C, 95K2
A1021	K42D	BK42D
A1002	K42E	BK42E
A1022	L42B	L42B, BL42B, L42BG
A1021	L42C	L40C, 69-2037, BL42C
A1002	L42CJ	100-38 (Glass or metal)
A1023	M42B	BM42B, M42BG
A1024	K249B	50B2, 50B2MG
A1025	K49B	BK49B, W-43357, 135K1
A1026	K749C	50A2MG
A1033	K49C	BK49C, K49CB
A1027	K49D	BK49D, 334A
A1042	L49B	2UR224, 69, 2033, L49BG
A1046	L49C	L49-5.5C
A1003	L49CJ	100-37 (Glass or metal)
A1028	L49D	3CR-241
A1029	M49B	8593; BM49B, M49BG
A1004	M49C	M49C
A1050	S55	K55A
A1031	S55C	BK55B, 3613, 55KB
A1034	K55C	K55C, BK55C, K55CG
A1052	K55CP	K55CP, K55CPR
A1030	K70B	K70B
A1035	K55H	K52H, 32, 55H
A1043	L55B	2VR-215, BL55B, L55BG
A1044	L55C	L55-5.5C
A1047	L55E1	L55E1
A1047	L55E2	L55E2
A1054	L55S3	L55S3
A1055	M55B	BM55B
A1005	M55C	BM55C
A1006	K67B	K67B
A1036	K72B	K72B, K73B
A1039	K74B	K74B, K72C, K73C
A1039	K80B	K79B, K78B
A1038	K87B	K90B, K86B
A1007	90A	90A, K92A
A1056	K92B	K90B, K85B
A1039	K92F	K90F
A1049	105A	K105A

List, 80c.
IN LOTS OF 10, EACH, 21c. **25c**
NET EACH.



AC-DC ADJUSTABLE BALLASTS

A solution of the Ballast tube problem. 3 of these adjustable ballasts will replace any one of 99% of all ballast tubes. Simple to adjust; no tools or experience necessary. A complete chart which shows ballast to use is included with each ballast. Chart is also sent FREE on request.

A1058. Ballast A. NET **59c**
A1059. Ballast B. EACH.
A1060. Ballast C.

ADJUSTABLE BALLAST KIT

A handy kit of adjustable ballast resistors. Contains 2 type "A," 2 type "B," and 1 type "C" ballasts, complete with chart. Have a ballast on hand for any job. **\$2.75**

AMPERITE BATTERY BALLASTS

FOR	Amperite	FOR	Amperite	FOR	Amperite
1A1*	5E1	1N1*	1N1	LLL225	5E1
1B1*	3H1	1S1	1O1	1P1*	1P1
1C1*	7H1	1S1	1R1	1R1	1R1
1D1*	2H1	1T1	1T1	1U1	1U1
1E1*	5E1	1V1*	5H1	1A2*	30
1F1*	7-1	10AB*	5H1	1B2*	31
1G1*	4-1	6	1F1	1C2*	52
1J1*	6-1	6AA*	5E1	1D2	1D2
1K1*	5H1	1-1	5E1	1E2	1E2
1L1*	1L1				

*Denotes 4 prong base—others octal.
A1208. Specify type desired. NET **73c**

KELLOGG TUBES

A1010. Type 401. Original Kellogg detector amplifier type. **\$2.33**
NET.
A1011. Type 403. For use in last audio output stage. **\$2.94**
NET.



GENUINE EVEREADY MAZDA BULBS

Genuine Eveready Mazda 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.

No.	Type	Volts	Amps.	EACH	PER 10
A1250	41	2.5	.50	50.09	\$5.54
A1252	42*	2.5	.50	.10	.59
A1251	43*	3.2	.35	.12	.71
A1253	44	6.8	.15	.09	.54
A1257	50†	6.8	.20	.10	.59
A1258	51††	6.8	1.0	.07	.41
A1260	55††	6.8	.40	.07	.41
A1254	48	2.0	.06	.15	.88
A1259	49*	2.0	.06	.15	.88
A1255	44*	6.8	.25	.09	.54
A1256	44*	6.8	.25	.09	.54
A1269	45*	6.2	.35	.12	.71
A1270	47*	6.8	.15	.09	.54

MAZDA FLASHLIGHT BULBS

Stock No.	Lamp No.	Cell	Volts	Amp.	Price Each	Box of 10
A1262	223	2	2.2	0.25	\$0.09	54c
A1263	233	2	2.3	0.27	.09	54c
A1264	13	3	3.8	0.30	.09	54c
A1265	14	2	2.5	0.30	.09	54c
A1266	31	5	6.2	0.30	.10	59c
A1267	136	1	1.3	0.60	.10	59c
A1268	248	2	2.4	0.80	.10	59c



AMPERITE AC-DC BALLAST TUBES

The units below will replace 90% of the ballast tubes used in A.C.-D.C. sets. They are designed to pass only .3A through tube filaments which keeps them ± 5% with line voltages varying from 85 to 140 volts. Prevents damage to tubes, pilot lights, etc. 1 or 2 .15A or .25A pilot lights may be used with one Amperite. If pilot light burns out set will still play. Save with Amperites.

Cat. No.	Amperite No.	Starting With Letter	With No From	Ending With Letter
A1178	KL25		10 to 36	A, B, C, or D
A1179	KL25H	K, L, M or BK	11 to 26	F, G, or H
A1184	KL45	K, L, M or BK	36 to 67	A, B, C, or D
A1168	KL50H	K, L, M or BK	36 to 67	F, G, or H
A1173	KL50E	K or L	36 to 67	E
A1171	KL50S1	K or L	40 to 100	S1
A1186	KL50S2	K or L	40 to 100	S2
A1185	KL75	BL or BM	67 to 105	A, B, C, or D
A1169	KL75H	K, L, M or BK	67 to 105	F, G, or H

A1187. Amperite No. 4P-45, 4 Prong base. Replaces the following types:
40A2 50X3 140L8 165L4 185L44 300R4
40B2 50X300 140R8 165L44 185L8 K40X
40X300 6B 160KB 165L8 185R4 K40Y
45W 140A 165KB 165R4 185R44 K49X
50 140KB 165KC 165R44 185R8 K49Y
50A2 140KC 165LB 185KC 245A KX42B
50B2 140L4 165LC 185L4 250A KX42C
50W 140L44

A1188. Amperite No. 3-40, 4 Prong base. Replaces the following types:
5B 40W 140R 185R KX49A
40 69.2027 165R KX42A KX55A

SPECIAL AC-DC BALLASTS

Cat. No.	Amperite No.	Cat. No.	Amperite No.	Cat. No.	Amperite No.
A1151	46A1	A1177	K55CP	A1196	W42520
A1157	46B1	A1181	963	A1159	115-17
A1170	60R30G	A1182	878R48	A1163	115-18
A1172	3271	A1153	L42BX	A1161	115-19
A1150	2MR253	A1155	49B	A1162	115-20
A1174	200R	A1190	1916	A1157	115-25
A1175	250R	A1193	382R48	A1158	115-26
A1152	320R4	A1156	W40655	A1160	115-27
A1176	L55B				

Any of Types Above, List, \$1.00. **59c**
NET EACH.



GENUINE G.E. NEON GLOW LAMPS



Useful in many test instruments such as tube checkers, etc. Will fill many other purposes such as light source for stroboscopes, night lights, etc. Both electrodes glow on A.C.; only negative glows on D.C. For 105 to 120 volt operation.



No.	Type	Finish	Watts	EACH
A6452	G10	Clear	1/2	36c
A6451	G10	Clear	1/2	36c
A6458	G10	Clear	1 (200-240V)	36c
A6450	S14	Clear	2	45c
A6455	S14	Orange	2	49c
A6456	S14	Red	2	49c
A6453	S14	Clear	3	54c

CANDELABRA BASE

A6454	T4 1/2	Clear	1/4	36c
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BAYONET BASE

A6466. Argon (blue fluorescence) bulb. Edison base; clear glass; 2 1/2 watts. **45c**
NET.

PORCELAIN SOCKETS



Designed for neon lamps. Highest quality porcelain construction. Handy screw terminals for easy connection.



A6459. Edison Base. Clear mounting type. NET **9c**
A6460. Edison Base. Sub-panel mounting. NET **15c**
A6461. Candelabra Base. Sub-panel mounting. NET **28c**
A4011. Bayonet Base. Sub-panel mounting. NET **25c**

See page 175 for panel mounting sockets for candelabra bulbs.



GENUINE G.E. TUNGAR BULBS



The well-known, highly efficient G.E. Tungar Bulbs. Used in standard chargers. Will replace Rectigon bulbs of the same rating.

No.	G.E. Type	Amps.	Fig.	EACH
A6440	277465	2	A	\$2.94
A6441	195528	2	B	2.94
A6442	289381	6	C	4.41
A6443	189048	5	D	4.41
A6444	189049	6	D	4.41
A6445	217283	15	D	8.82

MALLORY BIAS CELLS

Designed principally to bias first audio amplifier tubes in high gain amplifiers. Eliminates necessity of using high capacity cathode bypass condensers. May also be used to furnish initial bias for RF, IF, and AVC circuits. Size, only 1 1/2" by 3/4". Noiseless; non-reactive at audio frequencies. Provides a no-current potential of 1 or 1 1/2 volt ± 10%. Cells may be used in series for higher voltages. Eliminates distortion caused by conventional biasing arrangements. Will last indefinitely if not overloaded.



A11872. 1 Volt Type. **18c**
A11871. 1 1/2 Volt Type. **18c**
EACH.

BIAS CELL HOLDERS

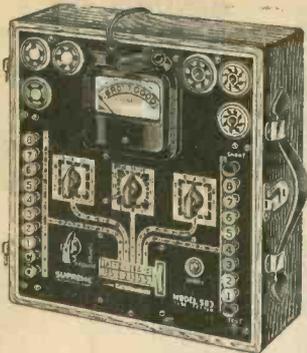
No.	Type	For	EACH
A11970	GB11A	1 cell	6c
A11971	GB12	1 cell	12c
A11972	GB1B	2 cells	9c
A11973	GB13	3 cells	15c
A11974	GB14	4 cells	21c

New SUPREME Test Equipment

NEW 503 AND 504 TESTERS

NEW OBSOLESCENCE-FREE FILAMENT VARIVOLT SELECTOR

Two new 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 1.4 to highest value used. Supreme continues the "double floating" filament return selector circuit allowing the selection of the proper filament return lead. Tube tester in both instruments provides dual sensitivity leakage test of all tubes. For cathode to heater leakage a 200,000 ohm sensitivity is provided. All other element leakages can be checked at either 200,000 ohms or 2 megohms. Push-button operation assures rapid, accurate testing with a minimum of adjustment. Removable fast-acting roll chart in two colors is conveniently mounted with directional arrows leading to each functional switch. Push-buttons are of the heavy wiping type to minimize contact resistance and assure accurate trouble-free operation. Pre-aged ceramic insulators are used for accuracy and dependability.



NEW MODEL 503 TUBE TESTER

This new Supreme Tube Tester provides a complete test of all of the newest as well as all standard type tubes. Tests television and local tubes including the "7" series, new single-ended types, gaseous rectifiers, magic tuning eyes, ballast tubes, and pilot lights, as well as the older tubes. Convenient "Arrow-way" testing system uses arrows leading from tube chart designations to the controls. All tests made with proper applied anode voltage through the correct load, assuring an accurate test. Has twenty-three available filament voltages and positive visual check for open filaments. The 4" square meter has a "Good-7-Bad" scale. Sturdy oak case with hinged cover; black panel with aluminum trim and red and ivory fittings. Tests separately each section of multi-section tubes such as diode-triodes, double diodes, etc. This instrument is the final judge of tube quality. Size, 12"x11 1/2"x3 1/2". For 110-130 V. 60 cycles A.C. Wt. 15 lbs.

A10265. NET CASH PRICE \$44.05

Terms: \$4.95 down, \$4.95 monthly for 9 months.

NEW MODEL 504 TUBE & SET TESTER

A compact portable testing laboratory. Combines Model 503 tube tester with a Multimeter providing every necessary test of voltage, current, and resistance. Uses the "Speed-Way" push-button testing system; same buttons used for tube tester and multimeter measurements. Multimeter circuit has a total of 31 ranges and functions: 0.5-25-100-250-500-1,000-2,500 volts D.C.; at 1,000 ohms per volt; 0.500 microamps-2.5-10-50-250 M.A.; and 0.1-10 amperes D.C.; 0.5-10-50-250-1,000 volts A.C.; 0.5-10-50-250-1,000 volts A.C. for multimeter use. Ohmmeter has 5 ranges: 0.200-2,000-20,000 ohms, 0.2-20 megohms energized by self-contained power supply. All ranges except 2,500 volts D.C. and 10 amperes operate from one set of pin jacks. All condensers checked for leakage up to 20 megohms on meter. Electrolytics, including high voltage filter condensers, checked at working voltage on "English-Reading" scale. Size, 14 1/2"x12 1/2"x6 1/2". Shpg. wt. 21 lbs.

A10260. NET CASH PRICE \$64.63

Terms: \$7.25 down, \$5.94 monthly for 11 months.

MODEL 592 UNIVERSAL MULTIMETER

Servicemen—it's here at last—the most complete test meter ever offered. The Supreme Model 592 Universal Multimeter is capable of making any conceivable test on all types of radio equipment. Meter movement is 40 microamperes, providing a voltmeter sensitivity of 25,000 ohms per volt. The 4" square Westinghouse meter has long easily-read scales. Larger wire on moving coil and larger hair springs provide maximum protection against overloads. 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 button on each side of meter, and any one of 47 ranges is instantly available. Button switches are of the self-locking industrial type. Seventeen ranges are as follows: 0-70-700 microamps; 0.7-35-140-350 M.A.; 0.1-4-14 amps. D.C.; 0.3-5-7-35-140-350-700-1,400 volts D.C. at 25,000 ohms per volt and duplicated at 1,000 ohms per volt; 0 to 500-5,000-50,000-500,000 ohms, 0.5-50 Megohms, all from self-contained battery supplied with instrument; 0.3-5-7-35-140-350-700-1400 volts A.C.; 7 Output Meter ranges with built-in coupling condenser: -10 to +6, 0 to +16, +10 to +26, +20 to +36, +30 to +46 DB. Size, 7 1/2"x9"x6 1/2". Shpg. wt. 10 lbs.

A10262. NET CASH PRICE \$40.18

Terms: \$4.51 down, \$4.51 monthly for 9 months.

NEW MODEL 592-593 COMBINATION TESTER AND ANALYZER

The 592-593 Tester-Analyzer combines in one compact case the Universal Multimeter Model 592 and the Socket Analyzer Model 593. Combination is ideal for all tube circuit testing and analysis. Complete with a long analyzer cable, a full set of adapters including local type and a set of test prods. The solid oak case comes complete with slip-hinged cover, carrying handle, bronze plated hardware, and rubber feet. Regardless of the method of analysis used, this combination instrument will be found to be indispensable. Complete specifications for each individual unit are fully described on this page. Size, 9 1/2"x6 1/2"x13". Shpg. wt. 15 lbs.

A10259. NET \$56.20

Terms: \$6.30 down, \$5.16 monthly for 11 months.



FAMOUS MODEL 542 POCKET LABORATORY

Here is an extremely compact, portable pocket laboratory at a remarkably low price. The full-size 3" square meter has an accurate 200 microampere movement with a sensitivity of 5,000 ohms per volt. A knife-edged pointer reduces parallax to a minimum, thus permitting easy readings. The 24 ranges of the instrument are as follows: 0-3-6-30-150 M.A. D.C.; 0-6-150-300-1,500 volts D.C.; 0-2,000-20,000-200,000 ohms and 0-2 megohms; 0.6-30-150-600 volts A.C.; 4 decibel ranges from -6 to +50, and 4 output ranges which are the same as the A.C. volt scales. All of the ohmmeter ranges, including the 0-2 megohm range, are operated by self-contained batteries. A single control knob takes care of all voltage, current and D.B. ranges in addition to the zero ohms adjustments. The durable black molded bakelite case has attractive metal panel. Compact size only 2 1/2"x5 1/2"x3"; weighs only 23 ounces. Supplied complete with self-contained batteries. An indispensable instrument to take with you on those outside service calls. Equally useful in the shop. Shpg. wt. 2 lbs.

A10228. NET CASH PRICE \$15.97

Terms: \$4.73 down, \$4.73 monthly for 3 months.



593 ANALYZER

Converts Model 592 or any other multimeter into a complete socket analyzer. Brings socket connections from chassis to analyzer box where voltage, current and resistance measurements can be conveniently made. Push-button operation speeds analysis. Simple in operation. Pressing both buttons of corresponding number opens circuit for current reading. Analyzes all local, actual, and non-actual types. Size, 9"x4 3/4"x4 1/2". Shpg. wt., 9 lbs.

A10264. NET CASH PRICE \$16.17



SUBSTITUTION BOX

The Supreme Model 596 Substitution Box determines resistance and condenser values by the substitution method. Push-button operated. First button provides any value from 0 to 25,000 ohms. Second button places this variable resistor in series with a 25,000 ohm fixed resistor. Next four buttons provide fixed values of 1, .25, .5, and 1 megohm. Remaining three buttons connect to 1, .5, and 8 mfd. condensers for various uses. Size, 9 1/4"x4 1/2". Shpg. wt., 1 lbs.

A10212. NET \$10.68

New SUPREME Test Equipment

561 COMBINATION TYPE SIGNAL GENERATOR



The Model 561 includes (1) an A.F. oscillator continuously variable from 15 to 15,000 cycles, (2) an unmodulated R.F. oscillator from 65 kilocycles to 60 megacycles, (3) a variable audio modulated R.F. signal using the internal audio oscillator, (4) a metered variable modulation percentage control from 0 to 75%, (5) a frequency modulated oscillator having a 30 kilocycle band width. External modulator may be used. R.F. oscillator uses iron-core coils and air-trimmer condensers for permanent calibration. Large 6 inch illuminated dials. 5 bands cover 65 kilocycles to 20.5 megacycles on fundamentals and to 60 megacycles on harmonics. A.F. oscillator has output of 150 milliwatts and open circuit voltage of 35 volts. Choice of 4 output impedances (center-tapped): 60, 600, 6,000 and 50,000 ohms. Also includes: ladder-type attenuator; push-button range and attenuation selection; dual ratio knobs; double shielding; built-in V.T. voltmeter. For 115 V. 60 cycle A.C. Size, 12"x15 1/4"x8 1/4". Shpg. wt., 25 lbs.

A10218. NET CASH PRICE. \$76⁹⁰
 \$8.50 down, \$6.49 monthly for 12 months.

NEW SUPREME MODEL 560 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 type of receiver. This system allows analysis of each circuit from antenna to speaker. Tests are made at most sensitive portions of the circuit where application of ordinary test equipment would be useless. The Vedolyzer allows distortion to be traced to its source. Heretofore the mode of diagnosing trouble has been to make sure each circuit in the receiver was functioning according to D.C. resistance and voltage tests. This often led to erroneous conclusions resulting from the peculiar action of radio frequency energy. A path which may test "closed" to ordinary test methods is capable of acting just the opposite to R.F. The Vedolyzer prevents just such mistaken analysis. Lets you see where distortion starts and the effect of corrective measures. Checks actual operating and signal voltages without disturbing receiver circuits. Easily and accurately determines AVC and AFC performance, oscillator feed-back and injection voltages, R.F. signal and D.C. operating grid voltages, inverse feed-back, and various other voltages in circuits of any complexity. Location, amount, and frequency of hum, intermittent reception, and other heretofore baffling measurements are easily and quickly made.



"SEE THE SIGNAL" TECHNIQUE FOR FAST COMPLETE BROADCAST AND TELEVISION RECEIVER SERVICING

Specifications. The Vedolyzer contains, (1) a frequency compensated broad-band amplifier with a band width from 20 cycles to 4.5 M.C., which includes A.F., I.F., broadcast, and television video frequencies. Amplifier is three stage, high-gain, using new television tubes. Output flat to within 1 D.B. over range. Has two separate input jacks for low (80 D.B. gain) and high input (45 D.B. gain). Works into either internal scope or both scope and internal vacuum tube voltmeter. (2) 3, 10, 100, and A.F. and A.F. wave forms. (3) Balanced bridge vacuum tube voltmeter with the following ranges: 0.2-6-20-60-200-600-6000 volts D.C., 0.3-9-30-90-300-900 volts A.C., 0.03-.3-3-30 volts R.F., 0-1000-10,000-1 meg.-1 meg.-100 meg.-1000 meg. Has decimal type easy-reading meter scale. (4) Wave analyzer and frequency meter. (5) Multiple probe input for checking a number of stages simultaneously. Vacuum tube voltmeter requires only one zero adjustment for all ranges. For 115 V. 60 cycle. Size, 12"x15 1/4"x13". Shpg. wt., 36 lbs.

A10219. NET CASH PRICE. \$126⁹⁰
 Terms: \$13.50 down, \$10.63 monthly for 12 months. Send deposit with order.

571 SIGNAL GENERATOR



The Supreme 571 Signal Generator is an instrument of unquestioned quality and utility. In accuracy and dependability it challenges the laboratory types of Signal Generators costing several times as much. Advanced circuit design produces an oscillator so free from frequency drift that a 20% change in line voltage results in an R.F. frequency shift of less than 1/100 of 1%. New circuit uses air dielectric trimmer condensers and impregnated iron-core inductors assuring permanent calibration. Positive tracking throughout, complete tunable range. Covers all intermediate, broadcast and high frequencies in 5 bands: A-65 to 205 K.C., B-205 to 650 K.C., C-650 to 2050 K.C., D-2050 to 6500 K.C., E-6.5 to 20.5 megacycles. Harmonics of the "E" band are almost unlimited and provide frequencies to 82 megacycles. Standard 400 cycle audio modulation with two modulation levels: 30% for conventional alignment and a 75% level to simulate present day high level broadcast signals. Switch provided for turning audio modulation off to allow use of unmodulated carrier. The 400 cycle audio note is completely free from frequency change. R.F. output, 11 volts on all bands, fully controllable down to 5 microvolt through a shielded attenuator. For 115 V. 60 cycle A.C. Size, 8 1/2"x7 1/2"x9 1/2". Shpg. wt., 19 lbs.

A10255. NET CASH PRICE. \$36⁷⁵
 Terms: \$4.12 down, \$4.12 monthly for 9 months.

546 3" OSCILLOSCOPE

This instrument is 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, overload, wave form distortion, etc., are quickly and easily checked. Visual alignment of R.F. and I.F. stages, checking the demodulation characteristics of second detectors and stage-by-stage gain measurements are but a few of the profitable uses. Cathode-ray oscilloscope testing is a recognized necessity when checking and adjusting modern radio receivers. The oscilloscope can be used as an A.C., D.C., or R.F. voltmeter having characteristics of practically infinite "ohms per volt" and input resistance. It has an inertia-less, weightless pointer which cannot be bent or broken and is not subject to injury on overloads. When properly used and its readings interpreted correctly, it represents a powerful tool which enables the development of a rapid, profitable servicing technique. All controls are on front panel. External synchronization may be used. With Instructions. For 115 V. 60 cycle. Size, 12"x13 1/4"x7 1/4". Shpg. wt., 24 lbs.



A10258. NET CASH PRICE. \$58⁷⁵
 Terms: \$6.60 down, \$5.40 monthly for 11 months.

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 signal from a station or test oscillator at consecutive points as it passes through the receiver. Consists of a high-gain tuned amplifier, covering all R.F., I.F., and S.W. frequencies in 5 continuously variable bands. Complete with demodulator, audio system, and speaker. Also contains a vacuum tube voltmeter with ranges of 0.1-3-10-30-100-300 and 1,000 Volts, D.C., with an input impedance of 15 megohms. Signal is traced through chassis under test by means of Audolyzer test probes and is heard in the loud speaker. In following the signal, faulty circuit is indicated by lack of Audolyzer speaker response. Circuits of Audolyzer may be used separately with vacuum tube voltmeter for locating intermittent faults. D.C. operating potentials, as well as AFC and AVC voltages and D.C. grid voltages can be measured without disturbing operation of receiver under test. Checks location, amount, and frequency of hum. Allows determination of oscillator frequency. May be used with any oscilloscope for seeing distortion. 12"x15 1/4"x10". Shpg. wt., 30 lbs.

A10215. NET CASH PRICE. \$76⁹⁰
 Terms: \$8.50 down, \$6.49 monthly for 12 months.

582A SIGNAL GENERATOR

The new 582A frequency-modulated Signal Generator is the first on the market to offer push-button selection of 9 popular broadcast and I.F. frequencies as well as 5 continuous bands from 70 K.C. to 15 M.C. on fundamental frequencies. Harmonics from last band extend to 60 megacycles. Illuminated dial lights only band and frequency being used. Permeability-tuned coils and air-trimmer condensers assure continuous circuit and eliminate frequency drift due to temperature and humidity. Has built-in frequency modulator. Four outputs available: unmodulated R.F.; frequency-modulated R.F.; and a 400 cycle audio note. For 115 V. 60 cycle, A.C. Size, 12 1/4"x15 1/4"x7 1/2". Shpg. wt., 32 lbs.



A10213. NET CASH PRICE. \$65⁶⁰
 Terms: \$7.35 down, \$6.03 monthly for 11 months.

MODEL 582 SIGNAL GENERATOR. Incorporates all of the features of the Model 582A described above, but does not include the push-button frequency controls.

A10214. NET CASH PRICE. \$58.75
 Terms: \$6.60 down, \$5.40 monthly for 11 months.

TRIPLETT Quality TEST EQUIPMENT



1604 MULTI-PURPOSE SET TESTER

A sensational new Set Tester backed by Triplett's "Red Dot" Lifetime guarantee. Outstanding features are the 12 A.C. and D.C. voltage ranges, D.C. at 25,000 ohms per volt; direct current ranges; low and high ohm ranges; complete Free-Point testing; condenser tester; and provisions for D.B. readings. Individual ranges are: 0-10-50-250-500-1,000-2,500 V. D.C. at 25,000 ohms per volt; 0-10-50-250-500-1,000-2,500 V. D.C. at 400 ohms per volt; 0-1-10-50-250 M.A. D.C.; 0-500-200,000 ohms; 0-1-5-3 megohms; .001-.30 mfd. capacity range including electrolytic leakage test and provision for -20 to +55 D.B. readings. The Free-Point tester makes all series and parallel meter connections through 7 sockets, including Local and Bantam Jr. types. Standard R.M.A. markings are employed. An exclusive patented circuit permits but one zero-setting adjustment for all resistance ranges. The plug-in rectifier simplifies replacement in case of accidental damage. Rectifier incorporates a new copper-oxide element which is pre-calibrated to a factory standard. Factory calibration is duplicated when rectifier is plugged into tester. It is unnecessary to return instrument to factory for recalibration. The Model 1604 is housed in an attractive steel case with black suede baked enamel finish. Size, 14 1/2" x 7 1/2" x 4 1/2". Panel is black, etched in red and silver. Case has leather strap handle and rubber feet. Snap-on metal cover has space for accessories and instructions. Complete with all accessories. Shpg. wt., 26 lbs.

A.C. at 1,000 ohms per V.; 0-50 microamperes, 0-1-10-50-250 M.A. D.C.; 0-1-2-20 amps D.C.; 0-500-20,000-200,000 ohms; 0-2-20 megohms; .001-.30 mfd. capacity range including electrolytic leakage test and provision for -20 to +55 D.B. readings. The Free-Point tester makes all series and parallel meter connections through 7 sockets, including Local and Bantam Jr. types. Standard R.M.A. markings are employed. An exclusive patented circuit permits but one zero-setting adjustment for all resistance ranges. The plug-in rectifier simplifies replacement in case of accidental damage. Rectifier incorporates a new copper-oxide element which is pre-calibrated to a factory standard. Factory calibration is duplicated when rectifier is plugged into tester. It is unnecessary to return instrument to factory for recalibration. The Model 1604 is housed in an attractive steel case with black suede baked enamel finish. Size, 14 1/2" x 7 1/2" x 4 1/2". Panel is black, etched in red and silver. Case has leather strap handle and rubber feet. Snap-on metal cover has space for accessories and instructions. Complete with all accessories. Shpg. wt., 26 lbs.

\$48.84

A9958. NET CASH PRICE

TIME PAYMENTS: \$4.88 down, \$6.05 monthly for 8 months.

NEW MODEL 1613 TUBE TESTER



This new Tube Tester with full 6" scale meter features the Triplett "Red Dot" Lifetime guarantee. The graceful, flowing, streamlined appearance and color contrast greatly enhance its eye-appeal. Full assurance against obsolescence is made possible by a filament transformer variable in steps from 1 to 110 volts. The Model 1613 has a fully balanced RMA tube testing circuit with leakage test for cathode and heater, inter-element, or any two elements. Checks for open filaments. Separate tests for multi-section tubes and full-wave rectifiers. It will not pass tubes which will not operate properly in a radio set or an amplifier. Provides for Local, "S", Bantam Jr., and Magic-Eye tubes, ballasts, gas rectifiers, and pilot lamps, as well as the older types of glass, metal, spray-shield, etc. Has a noise test phone jack and a separate line voltage meter. The illuminated roll chart provides maximum speed and simplicity of operation. It is the shortest length chart in use although it contains over 300 tube types. The seamless steel case is finished in baked suede enamel with silvered grey and maroon trim. Size is 15 1/2" x 11 1/4" x 6 1/4". For 115-125 V., 60 cycles. Shpg. wt., 42 lbs.

\$34.14

A9987. Model 1613. Portable Tester. As illustrated. Has detachable cover and carrying handle. NET

A9986. Model 1612. Counter Tester. Same as above, but less cover and carrying handle. Size: 15 1/4" x 11 1/4" x 6". \$29.24

PUSH-BUTTON TUBE TESTER & V.O.M.



Model 1611. A combination Tube Tester and Volt-Ohm-Milliammeter carrying Triplett's "Red Dot" Lifetime guarantee. Individual connection of each tube element to separate terminals insures against obsolescence. Filament voltages from 1-110 take care of all present and future tubes. An R.M.A.-approved emission type test circuit is employed. Tube testing is speeded up by means of the push-buttons and the new roll chart. The direct-reading illuminated meter scale is marked "Good-Bad." 6 sockets provide for all types of tubes including Local, Bantam Jr., gas rectifiers, "S" types, ballasts and high voltage series, including the new 117V6G. A Neon bulb positively indicates inter-element leakage. The V.O.M. ranges are: 0-10-50-250-500-1,000 V. D.C. at 1,000 ohms per volt and A.C. at 400 ohms per volt; 0-1-10-50-250 M.A. D.C.; 0-500-300,000 ohms; 0-1-5-3 megohms. Uses a plug-in rectifier. Metal case with removable cover has black suede finish. Size, 15 1/4" x 11 1/4" x 6 1/4". For 110-125 V., 60 cycles. Wt., 42 lbs.

\$48.51

A9969. NET CASH PRICE

\$4.85 down, \$6.01 monthly for 8 months.

"LOOK FOR THE RED DOT" LIFETIME GUARANTEE. The new, exclusive "Red Dot" on Triplett test equipment is your positive guarantee that the measuring instrument will give you a lifetime of service. Absolutely nothing is sacrificed to build Triplett Instruments and Testers to the highest standards of performance and lasting satisfaction.

MODEL 1616 TUBE TESTER & VOLT-OHM-MILLIAMMETER



A dynamic mutual conductance Tube Tester and V.O.M. with Triplett's "Red Dot" Lifetime guarantee. Tests all types of tubes including the new 117V6G. The push-button switches and roll chart simplify testing. Full provision is made for all leakage tests. The illuminated "Good-Bad" meter scale also reads: 0-10-50-250-500-1,000 V. D.C. at 1,000 ohms per volt and A.C. at 400 ohms per volt; 0-10-50-250 M.A. D.C.; 0-500-300,000 ohms; 0-1-5-3 megohms and -10 to +42 D.B. The attractive black suede finished metal case is 15 1/4" x 11 1/4" x 6 1/4". Removable cover. For operation from 110-120V., 60 cycles. Shpg. wt. 49 lbs.

\$71.87

A9980. NET CASH PRICE

\$7.19 down, \$8.90 monthly for 8 months.

A9981. MODEL 1615. Dynamic Mutual Conductance Tube Tester. Same as Model 1616 but less V.O.M. section. NET \$62.07 \$6.21 down, \$7.68 monthly for 8 months.

SEND DEPOSIT WITH ORDER FOR EASY TERMS PURCHASE
Please include 3 business references and employment information with order. Time payment forms will be forwarded immediately for your signature. This will speed up handling of your order. Time payment terms, where available, are given under each instrument listing.

1630 SIGNAL GENERATOR



An outstanding, extremely accurate Signal Generator. Covers from 100 KC to 30 MC in six ranges. Each coil is individually calibrated and tracked for linearity over its entire range. The unusually large direct-reading dial has a total scale length of 52 1/2". Zero leakage is attained through triple-shielding. A continuously variable attenuator controls output from zero to maximum. Rigid construction eliminates changes in calibration. Beautiful metal case is finished in black suede enamel. Etched panel is frosted silver with black trim. With removable cover. Complete with tubes, instructions and accessories. Size, 14 1/2" x 7 1/2" x 4 1/2". For 110-125V., 60 cycles. Shpg. wt., 28 lbs.

\$44.10

A9966. NET CASH PRICE

\$4.41 down, \$5.46 monthly for 8 months.

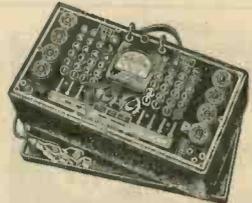
MODEL 1631
Same as Model 1630, but with electronic frequency modulation variable from 5 to 40 KC. Wt., 33 lbs.

\$53.90

A9968. NET CASH PRICE

\$5.39 down, \$6.67 monthly for 8 months.

1671 VIBRATOR TESTER



A new vibrator tester for checking all 6 volt type vibrators. Features the "Red Dot" Lifetime guarantee by Triplett. The flexible push-button switching and roll chart with 107 key settings make tester obsolescence-proof. Uses standard 5000 ohm-8 mfd. test load. The 2 color meter scale shows vibrator condition as "Good" or "Bad". Has tip jacks for oscilloscope and external buffer condenser connections. Tester is fused for protection against shorted vibrators. Case is finished in black suede enamel. Size, 14 1/2" x 7 1/4" x 4 1/2". The black etched panel has silver markings. Shpg. wt., 22 lbs.

\$39.04

A9973. NET CASH PRICE

\$3.90 down, \$4.83 monthly for 8 months.

1691 3-INCH OSCILLOSCOPE



Meets every servicing requirement for the visual study and adjustment of circuit problems. The 3-inch cathode ray tube with exclusive Triplett turret-type mounting can be moved up or down or to either side for easy readings. Provides an extremely brilliant pattern. Vertical and horizontal amplifiers are resistance-coupled. Linear sweep range from 15 to 20,000 cycles. Positive locking of pattern. Metal case measures 14 1/2" x 8 3/4" x 7 3/4". Panel is silver and black. For 110-125 V., 60 cycles. Shpg. wt., 30 lbs.

\$61.25

A9960. NET CASH PRICE

\$6.13 down, \$7.58 monthly for 8 months.

TRIPLETT Quality TEST EQUIPMENT



NEW MODEL 1213 TUBE TESTER

A new Tube Tester by Triplett which carries the "Red Dot" Lifetime guarantee. Circuit used is of the approved RMA type. 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 all registered owners. The Model 1213 is one of the most versatile tube testers ever developed.

MAKES TELEVISION TUBE TESTS

The Model 1213 tests Loctals, Bantam Jr., high voltage series including the 117V6G, Single End, types, Octal and Non-Octal, Magic Eyes, Pilot Lamps, Eallasts, Metal Glass, MG, Gas Rectifiers, Spray Shield tubes, and the new series of Television tubes. Filament voltages are available from 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 separate meter is used for line voltage control. The attractive case of the Model 1213 is finished in black suede enamel. Size is 7 1/4" x 6 1/2" x 5 3/4". The etched black panel is trimmed in silver grey. Read for 110-125 V. 60 cycles. Shpg. wt., 14 lbs.

A9936. NET CASH PRICE

\$21⁵⁶

1200A VOLT-OHM-MILLIAMMETER

A compact universal A.C.-D.C. Volt-Ohm-Milliammeter featuring a Triplett "Red Dot" Lifetime guaranteed instrument. Twin meters in single case have separate A.C. and D.C. movements. D.C. meter reads: 0-10-50-250-500-1000 volts at 2000 ohms per volt; 0-1-10-50-250 M.A.; 0-1500 ohms-1.5 meg-3 meg. Has an additional "Backup" low-ohm scale reading. A.C. meter reads: 0-10-50-250-500-1000 volts. Voltage scales are direct reading; ohmmeter scale has individual adjustments. Meter case, 7 1/4" x 6 1/2" x 5 3/4". With leads, prods and batteries.

A9941. Wt., 12 lbs. NET

\$23³⁵



1200-C — 5,000 OHMS PER VOLT

Same as Model 1200-A, but sensitivity is 5,000 ohms per volt. Has additional 250 microampere and 0-7 1/2 megohm scales. Suitable for checking AVC and other circuits. Complete with batteries, test leads, and accessories. Shpg. wt., 13 lbs.

A9943. NET

\$26.29

1200-E — 25,000 OHMS PER VOLT

Similar in appearance and design to Model 1200-A, but the D.C. meter has a circuit resistance of 25,000 ohms per volt. Reads 0-1000-4000 ohms-4.0 megohms. Also has 0-10 microampere scale. Complete with all accessories. Shpg. wt., 13 lbs.

A9944. NET

\$30.55

MODEL 1232-A SIGNAL GENERATORS

New improvements in this reasonably priced Signal Generator permit performance approaching that of laboratory precision equipment. 6 bands cover from 115 KC. to 30.5 MC. Calibrated coils assure accuracy. The large 180° dial opening improves readability. Total scale length is over 50". Triple shielding and line filters minimize leakage. Band-switch and all parts are low capacity. Perfect attenuation and cycle audio note available. The 7 1/4" x 6 1/2" x 5 3/4" metal case is finished in black suede enamel. Panel is silver and red on black. For 110-125 V. 60 cycles. Wt., 18 lbs.



A9946. NET

\$29²⁴



MODEL 1220-B FREE-POINT TESTER

Designed particularly for those who prefer the free-point method of testing. Permits voltage and resistance tests between any tube elements or to chassis. 7 RMA marked sockets accommodate all tubes including Loctals. Panel has 9 automatic switch-type and 9 single jacks. May be used with any volt-ohm-milliammeter. Complete with plug, cable, and adapters. New case with cover has room for all accessories. Size, 7 1/4" x 6 1/2" x 5 3/4". With instructions, guarantee and registration card. Wt., 10 lbs.

A9949. NET

\$12⁵⁸

A1700. Bantam Jr. adapter for use with above. NET

88.

SEND DEPOSIT WITH ORDER FOR EASY TERMS PURCHASE

Please include 3 business references and employment information with order. Time payment forms will be forwarded immediately for your signature. This will speed up handling of your order. Time payment terms, where available, are given under each instrument listing.

MODEL 1231-A

Same as the Model 1232A described above but designed for battery operation. Uses 1-22 1/2 volt and 3-flashlight cells which can be obtained anywhere. Size and appearance identical with the Model 1232A. Supplied with a complete set of self-contained batteries and all accessories. Ideal for portable work. Shpg. wt., 15 lbs.

A9947. NET

\$26.95

NEW 1280 TESTER FOR 10,000 VOLTS

The Model 1280 is equipped with a "Red Dot" Lifetime guaranteed 4" square instrument which is recessed below the front panel. All metal contacts and parts inside the tester are placed at least 1" from the sides of the case for safety. The special 3 foot test leads

have been subjected to a breakdown test of 25,000 volts. Posts are provided on front panel for grounding the metal case, the surest protection against shock at the high voltages encountered in television.

FOR TELEVISION TESTS

Tests A.C. and D.C. volts in steps of 2,500 and 10,000 volts and D.C. microamperes in steps of 50-500 and 5,000. Meter sensitivity is 25,000 ohms per volt for D.C., and 5,000 ohms for A.C. The case is enameled in solid red to indicate the caution necessary when testing high voltages. Using this tester and others required for ordinary service work, any of the voltage and current measurements in Television Receivers can be made. Case size, 7 1/4" x 6 1/2" x 5 3/4". Accessories include a pair of special high-tension leads with prods on one end and alligator clips on other end. Shpg. wt., 12 lbs.

A9948. NET

\$30⁸⁷

COMBINATION INSTRUMENTS



MODEL 1206. Combines the 1200A V.O.M., 1213 Tube Tester, 1220B Free-Point Tester, and 1231A Signal Generator. Carrying case size: 17" x 17 1/4" x 5 1/2". Shpg. wt., 45 lbs.

A9961. NET CASH PRICE \$90.34
\$9.03 down, \$11.18 a month for 8 months.

MODEL 1207. Combines the 1200A V.O.M., 1213 Tube Tester, 1220B Free-Point Tester, and 1232-A Signal Generator. Carrying case is 17" x 17 1/4" x 5 1/2". Shpg. wt., 45 lbs.

A9962. NET CASH PRICE \$92.63
\$9.26 down, \$11.47 a month for 8 months.

MODEL 1208. Combines the 1200E V.O.M., 1213 Tube Tester, 1220B Free-Point Tester, and 1232-A Signal Generator. Carrying case is 17" x 17 1/4" x 5 1/2". Shpg. wt., 45 lbs.

A9963. NET CASH PRICE \$99.81
\$9.98 down, \$13.35 a month for 8 months.

MODEL 1252 VACUUM TUBE VOLTMETERS

Incorporates a Red Dot Lifetime guaranteed twin-instrument of the tilting type with separate D.C. movements. The galvanometer indicates bridge balance while the other is a 4 range voltmeter reading peak A.C. and D.C. volts. Instrument is automatically self-calibrating—an exclusive Triplett development. The tube on end of cable reduces input capacity to less than 6 mmfd. Input resistance, 10 megohms on A.C. Ranges are 0-3-15-75-300 volts. Any A.C. or D.C. voltage of low magnitude can be easily and quickly checked without current drain or disturbing the circuit. Ideal for Television and high frequency measurements. Metal case finished in black suede enamel; 7 1/4" x 6 1/2" x 5 3/4". Panel is silver and red on black. Wt., 20 lbs.

A9922. NET CASH PRICE

\$47³⁶

\$4.74 down, \$5.86 a month for 8 months. Send deposit with order for quick service.

MODEL 1251

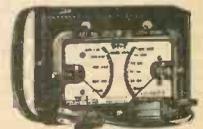
Model 1251 self-calibrating Vacuum Tube Voltmeter is the same as the Model 1252, but has tube mounted inside the case rather than on the cable.

A9925. NET CASH PRICE \$46.72

\$4.67 down, \$5.79 a month for 8 months.

PORTABLE APPLIANCE TESTER

The Model 2000 Portable Appliance Tester provides a quick and accurate means of testing power consumption of radios, refrigerators, household appliances, and motors under actual operating conditions. The tester contains a wattmeter 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 A.C. 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. The heavy leather carrying case with handle measures 3 1/2" x 5 3/4" x 2 1/2". It is equipped with a leather flap which folds over the twin instrument to protect the face and snaps in place when tester is not in use. Ample space inside case for cords and plugs which are included with accessories. Shpg. wt., 6 lbs.



A9950. NET PRICE \$18⁹⁴

TRIPLETT POCKET VOLT-OHM-MILLIAMMETER

MODEL 666H



A new and improved instrument built around a sensitive, accurate "Red Dot" Lifetime guaranteed meter. Provides the following scales: 0-10-50-250-1,000-5,000V. A.C. DC. at 1,000 ohms per volt; 0-10-100-500 M.A. D.C.; 0-300-250,000 ohms. Higher resistance readings may be obtained with external battery. A compensated copper-oxide

rectifier assures accurate A.C. voltage readings. Complete with battery and specially insulated test leads with clips, tested at 11,000 volts. Black molded case and panel, 3 1/2"x5 7/8"x2 1/4". Shpg. wt., 6 lbs.

\$1420

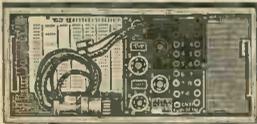
A9926 NET PRICE.
A9928. Model 666. Same as 666H but less 0-5,000 V. scale. Has additional 1 M.A. D.C. and 0-500 V. ranges. **\$13.72**

A9929. Attractive leather carrying case with handle for the above instruments. Holds tester and accessories. **NET...\$3.59**

0-25 AMP. SHUNTS

A9934. For Model 666H. **\$1.96**
A9934. For Model 666. **NET EACH**

TRIPLETT MODEL 1181-B PORTABLE LABORATORY

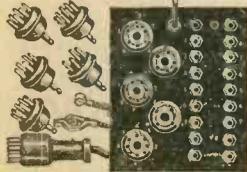


Combines three instruments in one case for complete circuit analysis. Includes (1) the precision Model 1151 All-Wave Oscillator for aligning and balancing all radio sets; (2) Model 1125-A Universal Volt-Ohm-Milliammeter for point-to-point analysis and as output meter; (3) the Model 1166-B Free-Point Auxiliary Set Tester for free-point and standard analysis tests. The 1181-B Tester is ultra-modern; it will handle all metal tube as well as glass tube circuits. Triplett "Red Dot" meter reads: 0-15-75-150-750 volts A.C. or D.C. at 1,000 ohms per volt; 0-1-5-15-150 M.A. D.C.; 0-15-150 M.A. A.C.; 0-1500 ohms-1.5-3 megohms. Oscillator has four ranges from 110 K.C. to 18 M.C. Auxiliary set tester has sockets with jacks for all analyses. Quartered oak case with removable cover; size: 16 1/2"x4 3/4"x7 1/4". Complete with batteries, adapters, accessories, and instructions. Shpg. wt., 17 lbs.

\$4099

A9932. NET
 \$4.10 down, \$5.08 mo. for 8 mos.

FREE-POINT SET TESTER 1166B



For use with any type of Volt-Ohm-Milliammeter. Panel contains 4, 5, 6, 7 and 8 prong sockets; all circuits are brought out to jacks on face of panel. Makes tests without removing chassis. Complete with adapters, including local, and instructions. Less case. Etched metal panel. Shpg. wt., 8 lbs.

\$1111

A9940. NET

READRITE-RANGER "40" SERIES TESTERS

A complete line of high quality instruments at a price you can afford to pay. Only the best of materials is used in their construction. All models are built to the highest standards by master craftsmen. Triplett meters used are of the "Red Dot" type with lifetime guarantee.

740 VOLT-OHM-MILLIAMMETER



An outstanding Volt-Ohm-Milliammeter for field or shop use. Uses a Triplett Model 326 precision meter. Ranges are 0-10-50-250-500-1,000 V. D.C. and A.C. at 1,000 ohms per volt; 0-1-10-50-250 M.A. D.C.; 0-300-250,000 ohms (25 ohms center scale); 0-250,000

ohms with 1 1/2 volt self-contained battery, 0-2 1/2 megohms with external 13 1/2 volt battery. Long battery life is assured by low current drain. Instrument is finished in black wrinkle enamel and measures 5 7/8"x7 1/8"x4 1/4". Has built-in compartment for holding accessories. Has handy leather strap handle for carrying. Panels are finished in silver and black. Complete with 1 1/2 volt battery and accessories. Shipping **\$1911**

A9911. NET

540 SIGNAL GENERATOR



This direct-reading battery-operated Signal Generator covers from 110 K.C. to 20,000 K.C. on fundamentals. Individually calibrated plug-in type coils are used. Maximum accuracy is assured by the absence of switch contacts and short grid wire connections. Completely shielded for static and magnetic fields. Features perfect attenuation and stability. Both modulated and unmodulated signals are available. Attractive black wrinkle finished case, 5 7/8"x7 1/8"x4 1/4". Has leather strap handle for carrying. Panel is silver and black. A handy compartment with removable cover houses the plug-in coils and accessories. Complete with batteries, tubes, and instructions. Wt., 11 lbs.

\$1911

A9914. NET



COMBINATION RANGER TEST INSTRUMENTS

The Readrite-Ranger "40" series of test instruments is also available in combinations of two units in handy portable cases. They provide convenience and at the same time afford additional economy. They are housed in sturdy metal cases with attractive black baked-enamel finish. Overall size is 11 1/2"x7 1/8"x4 1/4". Panels are silver and black. Convenient built-in compartments, with friction-fitting covers, hold accessories. Strong leather strap carrying handles. Shpg. wt., 19 lbs.

MODEL 540-740

A9918. Consists of the Model 540 Signal Generator and the Model 740 Volt-Ohm-Milliammeter. **\$36.75**

NET
 \$3.68 down, \$4.55 mo. for 8 mos.

MODEL 641-740

A9917. Consists of the Model 740 Volt-Ohm-Milliammeter and the Model 641 Free-Point Tester. **\$28.35**

NET

641 FREE-POINT TESTER

For use with any volt-ohm-milliammeter. Has 7 sockets for handling all receiving type tubes including Localts and Bantam Jr. Panel has 9 automatic switch type and 9 single action jacks. All series and parallel connections are made through the set sockets to any part of the circuit. Size, 5 7/8"x7 1/8"x4 1/4". Shpg. wt., 8 lbs.

\$1073

A9909. NET

TRIPLETT MODEL 1511 DYNAMIC TUBE TESTER AND VOLT-OHM-MILLIAMMETER

A true dynamic mutual conductance Tube Tester with a Triplett "Red Dot" Lifetime guaranteed meter. Tube types are quickly selected from the convenient roll type chart at the left of the instrument. The illuminated meter has a two-color "Good-Bad" scale. Checks all types of receiving tubes including Localt, Bantam Jr., and the new high voltage series such as 11726, etc. Separate tests for diode, rectifier, and ballast tubes. Also tests gaseous rectifiers. A Neon bulb provides conclusive shorts and leakage indication. The V-O-M section of the Model 1511 has the following ranges available through selector switches: 0-10-50-250-500-1,000 V. D.C. at 1,000 ohms per volt; 0-10-50-250 M.A. D.C.; 0-500-300,000 ohms; 0-1.5-3 megohms; 0-10-50-250-500-1,000 V. A.C.; also has provision for reading up to +42 D.B. Ohmmeter circuit is A.C. operated. The oak case measures 15 1/2"x11 1/4"x7 1/4". Has attractive durable antique bronze etched panel with contrasting markings. Shpg. wt., 39 lbs. For 110-125 V. 60 cycles.

A9982. NET CASH PRICE \$5848

\$5.85 down, \$7.24 mo. for 8 mos.

NEW TRIPLETT MODEL 1640 LABORATORY CONDENSER BRIDGE

The Model 1640 Condenser Bridge checks the capacity of all condensers—paper, electrolytic, or mica—from 0.0025 to 250 mfd. A newly developed circuit permits measuring the actual capacity of a condenser at any stage it may present, from a leakage standpoint. The 1640 also provides conclusive tests for shorts, opens, leakage, and breakdown. Six arcs on the main dial have a total scale length of 36 inches. Two 3-inch "Red Dot" Lifetime guaranteed indicating instruments are incorporated. One has a "Good-Bad" scale for electrolytic leakage. Direct current for checking leakage is available up to 600 volts and is variable. A fuse protects the transformer and rectifier from external overload. The bridge has 4 resistive arms which are kept in permanent balance by directly-coupled variable resistance arms comprising 2 legs of the bridge. By moving these resistors in unison it is possible to maintain a resistance balance and at the same time vary the ratio of the capacities under test. The sturdy metal case with lustrous black suede enamel finish measures 14 1/2"x8 3/8"x7 3/4". The etched panel is silver and red on black. For 110-125 V. 60 cycles. Shpg. wt., 40 lbs.

A10017. NET CASH PRICE \$8820

Time Payments: \$8.82 down, \$10.92 monthly, for 8 months.

WE CAN SUPPLY all makes and types of test instruments, not listed, at lowest prices. Write us for literature and attractive price quotations.



Readrite

TEST EQUIPMENT

432-A DIRECT-READING TUBE TESTER



The Readrite Model 432-A is a brand new quality tube tester. It uses a square 3" precision "Red Dot" lifetime guaranteed Triplett meter with a 3-color "Good-Bad" direct-reading scale. Meter has 2 high-quality sapphire jewel bearings. A separate shadow-type A.C. meter permits accurate line voltage adjustments. An emission type circuit is used for its reliability and ease of operation. The proper voltages and load values, as specified by the R.M.A. and the tube manufacturers, are applied to the tube under test. The final reading will show definitely the true condition of the tube. Unsatisfactory tubes are easily detected. The Model 432-A quickly and accurately checks metal, glass, sprayhinged, metal-glass, gas rectifier, Loctal, Bantam Jr. high-voltage series like the 117Z6, and ballast tubes. Separate plate tests can be made on diodes and rectifiers. A sensitive neon bulb determines the slightest inter-element leakages and shorts. Revised tube charts are furnished free to all registered owners. Attractive black leatherette case with handle and removable cover for counter or portable use. 9"x8 1/2"x7". For 110-125 V. 60 cycle A.C. operation. Shpg. wt., 18 lbs.

A9907. List, \$29.75. NET. **\$17.49**

A9908. Model 432-A Direct-Reading Tube Tester. Supplied in handsome case of quarter-sawed golden oak, instead of leatherette finish. **\$21.17**

List, \$36.00. NET

432A-742 TUBE TESTER & V.O.M.

An outstanding quality test instrument at a price within the reach of everyone. It combines the Model 432-A direct reading Tube Tester (described at left) with an accurate, high grade Volt-Ohm-Milliammeter. The latter section has a separate panel which contains the range selector switch, the ohmmeter zero adjuster, and the jacks. Uses a Triplett "Red Dot" meter with lifetime guarantee. Ranges of the Volt-Ohm-Milliammeter section are: 0-10-50-250-500-2,500 V. D.C. at 1,000 ohms per volt; 0-1-10-100 M.A. D.C.; 0-500 (with 25 ohms at center scale)-100,000 ohms; 0-1.5 meg-ohms and 0-10-50-250-500-2,500 V. A.C. The ohmmeter circuit is battery-operated and provides highly accurate resistance measurement scales. The professional appearing black leatherette case measures 12 1/4"x8 1/4"x7". Cover is removable. Has strong leather strap for carrying. Panels are silver and black. For 110-125 V. 60 cycle A.C. operation. Shpg. wt., 20 lbs.



A9906. NET. **\$26.31**

6 VOLT SUPPLY FOR TESTERS
A specially designed unit for operating tube testers, small electrical appliances, etc., from a 6 volt storage battery. Delivers 110 volts 60 cycle A.C. Output conservatively rated at 50 watts. Overall size, 4 1/8"x6 1/4"x8". Shpg. wt., 23 lbs. **\$19.99**

A9923. NET

POCKET VOLT-OHM-MILLIAMMETERS



MODEL 739
Uses a Triplett "Red Dot" meter with sapphire bearings. Ranges are: 0-15-150-750-1,500 V. A.C. and D.C. at 1,000 ohms per volt; 0-1.5-15-150 M.A. D.C.; and 0-500-500,000 ohms with internal battery supplied. Sturdy molded case has rounded corners. Size, 3 1/2"x5 7/8"x2 1/4". With battery, test leads, and alligator clips.

Shpg. wt., 5 lbs. A9912. NET

\$9.70

MODEL 738

The "Red Dot" 3" Triplett meter has genuine sapphire bearings. Ranges are: 0-15-150-750-1,500 V. D.C. at 1,000 ohms per volt; 0-1.5-15-150 M.A. D.C.; 0-500-500,000 ohms with internal battery supplied. Molded case, 3 1/2"x5 7/8"x2 1/4". With battery, test leads, and alligator clips. Wt., 5 lbs. **\$7.35**



MODEL 612 UNIVERSAL
The 612 uses a 3" "Red Dot" type Triplett precision meter with sapphire bearings. Ranges are: 0-15-150-450 V. A.C. and D.C.; 0-15-150-20,000-100,000 ohms and .01 to 20 mfd. Selector switch for all ranges. Current supply for ohmmeter is from either A.C. or D.C. source by means of cord and plug. Black molded case is 3 1/4"x5 7/8"x2 1/4". Has

silver and black panel. No batteries required. With test leads. Wt., 5 lbs. **\$7.79**

A9910. NET

A9915. Carrying Case. Leather case with handle for Models 612, 738 or 739. **\$3.53**

D.C. VOLT-OHM METERS



A9919. Model 511. A handy pocket-size instrument for D.C. voltage and resistance testing. Uses a square Readrite meter with full open dial. Reads 0-3-30-300 V. D.C. and 0-10,000 ohms. Wood case, 2 3/4"x2 1/4"x2". Furnished with self-contained 3 volt battery.

leads. Shpg. wt., 4 lbs. NET. **\$2.79**

A9920. Model 510. Similar to Model 511 above but reads 0-300 V. D.C. and 0-10,000 ohms. With leads and battery. Wt., 4 lbs. NET. **\$2.20**

MODEL 710A SET TESTER



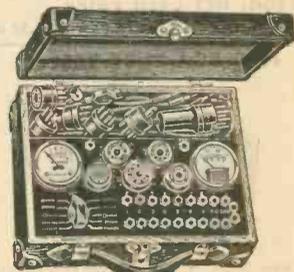
This Readrite Standard Analyzer completely and accurately tests all parts of any receiver circuit. The meters may be connected into the various circuits for measuring voltages and currents. This is done by means of the analyzer cable plug and adapters. The 3 meter ranges are: 0-15-50-300-600 V. D.C.; 0-15-150 M.A. D.C.; and 0-10-140-700 V. A.C. External jacks permit using these 9 scales separately. A 12 position selector switch connects the meters into various parts of the circuit under test. Provision has been made for measuring resistance up to 100,000 ohms and for testing condensers. Leatherette covered case measures 11"x8 1/4"x4". Complete with plug, cable, adapters, and full instructions. Shpg. wt., 10 lbs. **\$16.17**

A9902. NET

A9903. Model 712A. Same as the Model 710A described above, but with a Triplett "Red Dot" 2" D.C. Voltmeter having a resistance of 1,000 ohms per volt. Scales same as the Model 710A. In leatherette case. With all accessories. Shpg. wt., 11 lbs. **\$21.76**

A9916. Loctal socket adapter for the 710A, 712A, 720A and 730A. **73c.**

POINT-TO-POINT ANALYZER



MODEL 720A. Measures resistance, capacity, current, and voltage of any circuit. Tests made by plugging into receiving set sockets. The tester's socket terminals are arranged according to R.M.A. standards. Has separate A.C. and D.C. meters which provide following ranges: 0-15-150-300-600 V. D.C.; 0-15-150 M.A. D.C.; 0-10-25-150-750 V. A.C. Selector switch provides a convenient means for obtaining these well-built to give long, dependable service. Tester has compartment for holding analyzer cable, plug, and adapters. The durable, leatherette-covered case measures 11"x8"x4 1/4" when closed. Supplied complete with analyzer cable, plug, adapters, and full instructions. Shpg. wt., 10 lbs. **\$14.70**

A9900. NET

A9901. Model 730A. Same as the Model 720A described above, but with a Triplett "Red Dot" 2" D.C. Voltmeter having a resistance of 1,000 ohms per volt. Scales same as the Model 720A. In leatherette case. With accessories. Wt., 11 lbs. **\$18.23**

LOCTAL FREE-POINT ADAPTERS FOR ABOVE

A9921. Loctal plug adapter for the 710A, 712A, 720A and 730A. **\$1.18**

MODEL 557 SIGNAL GENERATOR

The Model 557 is a direct-reading all-wave Signal Generator covering from 110 KC to 20,000 KC in 5 bands. 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. The large, easy-reading dial is extremely accurate on all 5 bands. The attractive black leatherette case measures 12"x6 1/2"x5 3/4" when closed. Panel is silver and black. Supplied complete with coils, tubes, batteries, and instructions. Shpg. wt., 12 lbs. **\$18.52**

A9905. NET

A9904. Model 554A. Similar to the Model 557 described above, but not equipped with a direct-reading dial. Calibrated graph charts are supplied which provide an accuracy of better than 1% on any band. Supplied complete with accessories as above. Shpg. wt., 12 lbs. **\$14.11**

A9904. NET





R. C. A. TEST EQUIPMENT

NEW RCA-RIDER "VOLTOHMYST"



Rapid obsolescence of test equipment is an annoying and costly problem. Many servicemen have purchased a piece of test equipment only to find that in a short time it has become obsolete because of a new development in circuit design. The RCA-Rider VoltOhmyst with its 10 billion to 1 resistance ratio is an excellent example of obsolescence-minimized equipment. The range is ample for present and future tests on Television and radio receivers, transmitters, aircraft radio, power, sound, and facsimile. For the first time, the VoltOhmyst makes it possible to measure rapidly and accurately all D.C. voltages from 0 to 5000 volts without loading the circuit under test. 16 megohm input on ranges to 500 volts and 160 megohm input from 500 to 5000 volts. Tests bias cells, photocell circuits, television circuits, oscillator voltages; operating

voltages across tuned circuits with the signal present can be measured with speed and accuracy.

PUSH-PULL ELECTRONIC VOLTMETER-OHMMETER

A push-pull vacuum tube voltmeter of new design is used. Controlled inverse feedback compensates for differences in tube characteristics. Nine overlapping ranges, 0-5-10-25-100-250-500-1000-2500-5000 V., D.C. Polarity changing switch makes unnecessary the switching of test leads. Isolating resistor in test probe allows D.C. tests while A.C. or R.F. are present. All resistors accurate to 1%. Seven overlapping ohmmeter ranges from 0 ohm to 1000 megohms. Single zero reset. Steel chassis measures 7 1/2" wide, 8 1/4" deep, 11" high. Shpg. wt., 15 lbs. With tubes. For 25-60 cycle. 105-130 volt A.C.

A12400. NET CASH PRICE \$57.50
TIME PAYMENTS: \$5.75 down, \$7.12 monthly for 8 months.

FAMOUS RCA-RIDER "CHANALYST"



Due to the fundamental design of this instrument, it is now possible for the first time to test receivers under theoretically ideal conditions. You can localize troubles in a particular stage or part of a receiver or amplifier with greater speed and more efficiency than ever before. This is true no matter how complicated the circuit may be and regardless of the number or types of tubes used. Locating defects in a set is much more difficult and time-consuming than repairing them. By actual tests, the Chanalyst cuts down the time necessary to analyze radio trouble to an unbelievably low minimum. You can check the signal at any point in the circuit without disturbing operation of set. All testing is done without the use of any plugs or adapters. Traces signal through entire set; checks control voltages without interfering with set's operation; quickly locates intermittent conditions; checks output of oscillators etc. The beautifully finished case measures 14"x9"x9 1/4". For 110 volts 60 cycles. Shpg. wt., 30 lbs.

A12401. NET CASH PRICE \$107.50

TIME PAYMENTS: \$10.75 down, \$13.30 monthly for 8 months.

A12402. WITH RACK MOUNTING PANEL. For adapting the Chanalyst to a standard rack panel. Easy to install. Jacks at rear are brought to front of black ripple finish panel.

NET CASH PRICE \$122.50
TIME PAYMENTS: \$12.25 down, \$15.16 monthly for 8 months.

1940 RCA TUBE TESTER



This new RCA tube tester offers to service engineers and radio dealers a highly efficient unit incorporating the experience of the world's largest radio tube manufacturer. Ruggedly built for long, dependable service. Interlocking push-buttons prevent incorrect adjustment. Tests every standard type of receiving tube including ballast tubes. Provision for new battery tubes. Equipped to test tubes with heaters up to 120 volts. Has two spare sockets and additional space for 100 new tube types on convenient roll chart. Has socket for testing miniature lamps. Includes built-in socket for testing Loktal and new bantam tubes. Tests cathode ray tubes for shorts and emission; also tests ballast tubes for noisy welds and opens. Indicates voltage drop on all types of gas tubes such as 874, OA4-G, OZ4-G, etc. Metal case finished in gray wrinkle lacquer with light metal trim. Portable model has rugged cover and special handle. Size, 13 1/2" long, 5 3/4" deep, 8" high. Shpg. wt., 16 lbs.

A12403. Model 156C. Counter Type. CASH PRICE \$37.95
\$3.80 down, \$4.70 monthly for 8 months.

A12404. Model 156B. Portable model with cover. CASH PRICE \$39.95
\$4.00 down, \$4.95 monthly for 8 months.

RCA OSCILLOGRAPHS

3" MODEL 155

RCA's finest general purpose 3-inch oscillograph at a new low price. Uses improved high-sensitivity Cathode Ray tube. All controls mounted on front panel for greater ease of operation. Ideal for alignment, hum, distortion, and wave-form measurements. Sensitive amplifier. flat from 20 to 90,000 cycles with a 40 D.B. gain. Timing axis, 15-22,000 cycles. Blue-gray baked lacquer finish. Size: 15"x8"x14". For 110 volts, 50-60 cycles. Shpg. wt., 23 lbs.

A12406. CASH PRICE \$63.95
\$6.40 down, \$7.92 monthly for 8 months.

2-INCH MODEL 151-2

Tilt-mounted screen. All controls on front panel. Size: 13 1/2"x9 1/4"x7 3/4". Wt., 16 1/2 lbs.

A12407. CASH PRICE \$49.95
\$5.00 down, \$6.19 monthly for 8 months.

1-INCH MODEL 151

A serviceable instrument of high quality. Same size and weight as 2-inch model above.

A12408. CASH PRICE \$39.95
\$4.00 down, \$4.95 monthly for 8 months.

5-INCH MODEL 160

A general-purpose oscillograph for a wide variety of uses. Large screen gives easily read images. Controls are few and easy to operate. Size: 14 1/4"x8"x19 1/4". Shpg. wt., 32 lbs.

A12409. CASH PRICE \$130.00
\$13.00 down, \$16.09 monthly for 8 months.

RCA TEST OSCILLATORS



MODEL 153

Six bands cover from 100 to 30,000 KC on fundamentals. The large 6" dia. cover 50" in length, insures easy reading. RF output variable from 2 microvolts to 1 volt maximum. A 400 cycle 8 volt output is also available. With tubes. Size, 13 1/2"x9 1/4"x6 1/2". For 110 V., 60 cycles. Shpg. wt., 15 lbs.

A12419. NET \$29.95

154 BEAT FREQUENCY AUDIO OSCILLATOR

A variable frequency source of alternating current voltage from 30 to 15,000 cycles. Choice of 3 standard output impedances. 125 milliwatt output. Size, 9 1/2"x13 1/4"x6 1/4". Shpg. wt., 17 lbs.

A12420. CASH PRICE \$49.95
\$5.00 down, \$6.19 monthly for 8 months.

AEROVOX CAPACITY AND RESISTANCE BRIDGE

Here is an instrument of many functions. Measures all of the essential properties of condensers under actual working conditions. Six ranges from 100 MMF to 100 MF are provided. The resistance bridge measures values from zero up to 1 megohm. Insulation resistance of condensers, wires, etc., can be measured up to 10,000 megohms on a directly-calibrated meter scale. The instrument also includes a vacuum-tube voltmeter. Other meter ranges are: 0-60-300-600 volts D.C. at 1,000 ohms per volt; 0-6-60 mils D.C., and 0-60 millivolts. A continuously variable power supply from 15 to 600 volts D.C. is available. Dial spreads calibrations for easy readings. Instrument is housed in a natural finish, red gumwood case with a slip-hinged cover. Size: 10 1/4"x7 1/4"x8". For 110 V., 60 cycles. Shpg. wt., 11 lbs.



A12417. NET \$35.03

OTHER RCA QUALITY TEST INSTRUMENTS

ALLIED offers these additional R.C.A. test instruments for serviceman, experimenter, or engineer.

MODEL 150. Electronic Sweep Test Oscillator. A12410. CASH PRICE \$64.50
\$6.45 down, \$7.99 monthly for 8 months.

MODEL 9600. A.C. Bridge. A12411. CASH PRICE \$49.65
\$4.97 down, \$6.15 monthly for 8 months.

No. Model NET
A12412. 4317 Output Indicator. \$ 4.00

A12413. 9572 Piezo Electric Calibrator. \$29.95

A12414. 9595 Battery Oscillator. \$34.50

A12415. 9558 Frequency Modulator. \$27.50

FOR TELEVISION

A12416. MODEL 157. Crystal Calibrator. CASH PRICE \$46.50
\$4.65 down, \$5.76 monthly for 8 months.

A12417. MODEL 158. 5" Oscillograph. CASH PRICE \$147.50
\$14.75 down, \$18.25 monthly for 8 months.

MODEL 159. Alignment Oscillator. A12418. CASH PRICE \$130.00
\$13.00 down, \$16.09 monthly for 8 months.

WRITE FOR COMPLETE descriptive literature covering any RCA test instrument. Most units are available under ALLIED'S convenient Time Payment plan. Where time payments are listed under the item, send down payment for speedy delivery.

MODEL 801 TUBE & SET TESTER



A high-grade instrument combining an ultra-modern 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 new and old tubes 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. The V.O.M. ranges are: 0-10 tubes; 0-500-1,000 V. D.C. at 1,000 ohms per volt; 0-1-10-100-1,000 M.A., D.C.; 0-10-100-1,000 ohms; 0-1-10 megohms; 0-10-50-100-1,000 V. A.C.; -8 to +55 DB. in 4 ranges and 4 output ranges. Also checks condenser leakage. Case with hinged cover. For 115 V. 60 cycles. With test leads. Shpg. wt., 12 lbs.

A10107. NET CASH PRICE \$27.39

MODEL 801A WITH PLUG-IN SET ANALYZER

Identical to the Model 801 described above plus an analyzer unit which is built into the cover. Permits all measurements to be made at the socket terminals with all tubes and circuits in operation. Furnished complete with latch-lock adapters, test prods, etc. For 115 V. 60 cycles. Shpg. wt., 14 lbs.

A10108. CASH PRICE \$37.14

TIME PAYMENTS: \$3.71 down, \$4.60 a month for 8 months. For 230 volt 50-60 cycle model add \$1.00 to above cash price.

MODEL 409A UNIVERSAL



A highly accurate Multitester using a 2,000 ohm-per-volt 5" D'Arsonval meter. Ranges are: 0-5-50-500-1,000 V. D.C. at 2,000 ohms per volt and A.C. at 1,800 ohms per volt; 0-500 microamps D.C.; 0-5-50-500 M.A., D.C.; 0-100-750-75-100 ohms; 0-10 megohms; -12 to +54 DB. in 4 steps; and 4 output inner ranges. Low ohmmeter scale reads 2 ohms at center. Has a complete self-contained power supply. No batteries are required.

Size of case, 5¼"x8¾"x3". For 115 V. A.C. or D.C. Shpg. wt., 4 lbs.

A10109. Counter Model. \$17.59

A10110. Model 409AP. Port. \$19.06
able Model with hinged cover. For 230 volt 50-60 cycle models add \$1.00.

311C DELUXE TUBE TESTER



A deluxe instrument using a 4½" meter with 4 long, multi-colored scales. Tests every type of receiving tube to name today with provisions for future releases. Checks all ballast tubes, pilot lights

etc. Accurate tests for shorts and leakage. Has ohmmeter scales 0-10,000-1,000,000 ohms and capacity ranges of 0.01-4 and 4-16 mfd. Checks condenser leakage. Size, 10"x15"x7". For 115 V. 60 cycles. 16 lbs.

A10111. CASH PRICE \$28.37
\$2.84 down, \$4.68 monthly for 6 months.

A10112. MODEL 311P. Combination
Portable and Counter Model. **\$28.37**
CASH PRICE
\$2.84 down, \$4.68 monthly for 6 months.

702 SIGNAL GENERATOR



Continuously variable from 95 K.C. to 23 M.C. in 5 bands on fundamentals and to 92 M.C. on harmonics. Calibrations are etched directly on the panel. Output unmodulated or modulated 30% at 400 cycles. Automatic shorting of coils not in use prevents dead spots. Size, 8"x11¼"x5". For 115 V. 60 cycles. Shpg. wt., 15 lbs. **\$22.49**

A10113. NET

MODEL 308 TUBE TESTER



A new Dynoptimum Tube Checker providing reliable performance at low cost. The accurate 3" square D'Arsonval meter is direct-reading. Tests all metal, M.G., glass, gas rectifiers, octal, local, and single end type tubes, and provides filament voltages up to full line voltage. Tests are made under RMA specified plate voltages and loads; considered the finest co-relative test. A feature of the Model 308 is the provision for audibly checking noisy tubes. The instrument individually tests each section of full-wave rectifiers, diodes and all multi-purpose tubes with new base arrangements. 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. Size, 9"x12"x5". For 115 V. 60 cycles. Shpg. wt., 10 lbs.

A10114. Model 308C. \$16.61

Count. Model. NET

A10115. Model 308P. Portable and
Counter Model. Size, 11¼"x12"x7". For 115 V. 60 cycles. Shpg. wt., 12 lbs. **\$18.57**

NET. For 220 volt 50-60 cycle models add \$1.00.

MODEL 504 ANALYST



The Analyst is an improved push-button circuit selector which permits the greatest safety and flexibility for analyzing symptoms in radio sets and P.A. installations. Some of the exclusive features are: 2 or more buttons can be pushed at the same time without danger of shorting; any button can be left locked in depressed position (eliminates "release" button); current and voltage measurements in the same circuit can be made at the same time. Has a 10 wire analyzer cable including spare lead for future requirements. Panel is equipped with 6 sockets, including Local. For use with any volt-ohm-milliammeter. Complete with latest type toggle latch plug and 7 adapters. Wt., 3 lbs.

A10116. Less Case. \$13.47

NET. **A10117. Model 504C. Same as 504 above**
but in a 3" deep case. **\$14.65**

NET

MODEL 445 AC-DC MULTITESTER



A unique general test instrument of outstanding performance. Uses an accurate 3" D'Arsonval meter with bakelite case. Ranges are: 0-5-50-250-500-2,500 V. D.C. at 1,000 ohms per volt; 0-1-10-100-1,000 M.A., D.C.; 0-10 amps D.C.; 0-500-100,000 ohms; 0-1 megohm; 0-10-100-500-1,000 Volts A.C.; 4 D.B. ranges from -8 to +55 and 4 output ranges same as A.C. volts. The low range ohmmeter is of the low-drain backup type and reads as low as .1 ohm. Center of scale reads 10 ohms. Ideal for measuring voice coils, shorted turns, poor contacts, etc. A selector switch on the attractively finished front panel provides convenient operation. Size of case is 3"x8½"x5". Supplied complete with batteries. Shpg. wt., 4 lbs. **\$9.75**

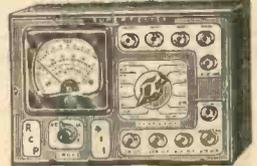
432 TROUBLE SHOOTER



Here is an instrument that is priced lower than any other type of D'Arsonval volt-ohm-milliammeter. The 432 has the following ranges: 0-5-50-1,000 volts D.C. at 1,000 ohms per volt; 0-500-50,000-500,000 ohms with self-contained batteries; and 0-1-10 M.A., D.C. 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 welded steel case with morocco finish. Size: 3¼"x3"x2". Shpg. wt. 3 lbs. **\$5.83**

A10167. NET

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: 0-10-50-250-1,000-5,000 volts A.C. and D.C.; 0-200 microamps D.C.; 0-10-100 M.A., D.C.; 0-400-40,000-4,000,000 ohms; -10 to +69 D.B. in 5 steps; 0-1-10-25 amps D.C.; 0-500 M.A. A.C. and 0-2.5-5-25 amps. A.C. Output meter ranges same as A.C. volts. Center scale reading on low ohmmeter range is only 5 ohms with each of the first 10 divisions measuring .1 ohm. In natural wood case 7½"x5½"x3½". Shpg. wt., 3 lbs.

A10168. MODEL 411. NET. \$15.92

A10169. MODEL 411P. Same as Model
411 but in a portable hinged-
cover case. NET **\$17.39**

A10121. Same as the Model 411 but has
additional provision for testing ballast tubes
with octal bases. NET **\$17.39**

660 ELECTRONIC MULTITESTER



An extremely sensitive vacuum tube D.C. volt-meter and ohmmeter with unusually wide ranges. Input resistance is 200 megohms on all ranges except 6 volts where it is 40 megohms. This permits voltage measurements without upsetting circuit operating conditions. Ranges are: 0-6-30-150-600-3,000-6,000 V. D.C. 0-1,000-10,000-100,000 ohms and 0-1-100-1,000 megohms. Direct-reading scales over 7½" long. Adequate protection has been made against high voltage leakage. Foolproof and simple to operate. Has handsome sloping front panel and solid walnut case. Size, 10¼"x7¼"x5¼". Complete with tube and batteries. For 115 V. 60 cycles. Shpg. wt., 7 lbs. **\$18.57**

A10122. NET



PRECISION TEST EQUIPMENT

844 VOLT-OHM-DECIBEL-MILLIAMMETER



This instrument provides complete facilities for obtaining all measurement requirements for service, amateur, television, laboratory, and industrial use. The master rotary switch permits speedy selection of all ranges. A Precision $4\frac{1}{4}$ " square meter is used, having a sensitivity of 400 microamperes. The extra-long scales and large numerals assure easy reading. All shunts are wire-wound on impregnated, moisture-proof bobbins. Multipliers are of the molded, metallized type and are held to very close tolerances. The high-voltage circuits are insulated against breakdown through use of heavy-duty pin-jacks, ceramic switch construction, and high grade insulated wire. Selector switch has low-resistance, double-wiping, silver-plated contacts with positive snap-in action. Each instrument is individually calibrated and sealed to laboratory standards. Each will give consistently dependable service.

34 RANGES — 6000 VOLTS AC AND DC

The Model 844 provides the following ranges: 0-12-60-300-600-1,200-6,000 V. D.C. at 1, 00 ohms per volt; 0-1-2-12-60-300-1,200 M.A., D.C.; 0-12 amps. D.C.; 0-400-100,000 ohms; 0-10 megs; 0-12-60-300-600-1,200-6,000 V. A.C.; -12 to +70 D.B. in 6 steps and 6 output ranges same as A.C. volts. Provisions have been made for mounting the ohm-meter batteries (4½ and 45 volts) on inside of instrument. The 844 is supplied in an attractive walnut-finished hardwood case with removable cover and carrying handle. Has convenient compartment for housing tools, etc. Overall size, 9"x10"x6". Less batteries and test leads. Shpg. wt., 7 lbs.

- A12038, MODEL 844P, Portable Type, NET** **\$24.45**
A12039, MODEL 844L, Housed in a walnut-finished hardwood case with carrying handle. Less removable cover and compartment. Size, 7"x8"x4". Less batteries and test leads.
NET **\$22.49**

SERIES 920 DYNAMIC ELECTRONOMETER

A combination Dynamic Mutual Conductance Tube Tester and 33 range Set Tester. Uses a large $4\frac{1}{4}$ " square type Precision meter with easy-reading scales and numerals. Tests Local, Bantam Jr., "S", television amplifiers, regular octals (MG, G, and Metals), Glass, and Ballast tubes. Accommodates all filament voltages from 1.4 to 120 volts. The automatic push-button system is assurance against obsolescence and of ability to take care of future tube releases. Meter instantly indicates any tube having an open element. Checks each section of multi-section tubes. Sensitive Neon indicator will detect shorts and leakages. Noise test pin-jacks are incorporated for earphone use. The built-in roller type tube chart permits speedy, easy-reading references.



DYNAMIC TUBE TESTER & MULTI-RANGE SET TESTER

The 920 provides the following ranges: 0-12-60-300-600-1,200-3,000 V. A.C. and D.C. at 1,000 ohms per volt, 0-1-2-12-100-600 M.A., D.C.; 0-12 amps. D.C.; 0-400-100,000 ohms; 0-1-10 megohms; 6 D.B. ranges from 10 to +64; 6 output ranges same as A.C. volts. The master range-selector switch permits simplified, speedy measurements. Leakage of electrolytic and paper condensers is easily determined. Instrument is housed in a hardwood portable type carrying case with removable cover and tool compartment. Walnut finish. Size, 12"x13"x6". With battery and test leads. For 110 V. 60 cycles. Shpg. wt., 20 lbs.

- A12040, MODEL 920P, Portable Type.**
A12041, MODEL 920C, Counter Type. 16" x 12" x 8". Sloping panel. Black ripple finish. Wt., 21 lbs.
CASH PRICE EITHER MODEL **\$52.87**
TIME PAYMENTS: \$5.29 down, \$6.55 monthly for 8 months.

SERIES 830 DC VOLT-OHM-MILLIAMMETER



Although small in size, the 830 incorporates 11 adequate ranges for measuring volts, ohms, and current. These ranges are selected by a master rotary switch located on front panel. A large Precision 3" square D'Arsonval meter is used. Wire-wound shunts and metallized multipliers provide a high degree of accuracy. Ranges are: 0-10-100-250-500-1,000 V. D.C. at 1,000 ohms per volt; 0-10-100-250 M.A., D.C., and 0-500-300,000 ohms. Ohmmeter ranges are powered by a self-contained battery. Walnut-finished hardwood case with carrying strap measures 7"x4½"x2½". Has attractive etched metal panel. Supplied with 3 volt battery but less test leads. Shpg. wt., 3 lbs.

- A12042, NET** **\$10.73**

910 DYNAMIC MUTUAL CONDUCTANCE TUBE TESTER



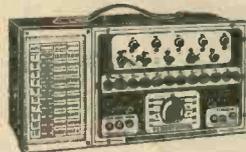
The 910 employs an exclusive circuit which effectively tests all receiving tubes for both mutual conductance and cathode structure. Both of these tests are necessary in order to obtain the overall quality or merit of a tube. The automatic push-button system affords extreme flexibility for non-obsolescent tube analysis and ability to accommodate future tube releases. Dual selector switches locate terminals of all filaments regardless of their pin positions. Individual loads and voltages as specified by the tube manufacturers are applied to each tube element.

TESTS ALL TUBE TYPES

Accommodates all filament voltages from 1.4 to 120 volts. Accurately tests Local, Bantam Jr., "S", Television amplifiers, Octals (MG, G, and M), Sprayshield, and Glass types. Diodes, rectifiers, and multi-purpose tubes are tested separately from same socket. All ballast tubes can be checked for opens, loose elements, and leakage. A Neon indicator is used for checking hot cathode leakage and hot interelement shorts and leakages. Pin-jacks permit testing tubes for noise by means of earphones. The meter instantly indicates any tube having an open element. Roll type tube chart permits quick readings. Hardwood portable carrying case with removable cover and tool compartment. Walnut finish. Size, 12"x13"x6". For 115 V. 60 cycles. Shpg. wt., 18 lbs.

- A12044, MODEL 910P, Portable Type.**
A12045, MODEL 910C, Counter Type. Same as 910P but in black ripple-finished heavy metal case. 16"x12"x8". Slopes to 3" at front. Shpg. wt., 19 lbs.
YOUR PRICE EITHER MODEL **\$33.27**
A12046, MODEL 910MCP, Same as 910P but in open black metal case. 12"x10½"x6". With handle. Wt., 18 lbs.
NET **\$29.35**

SERIES E300 AUTOMATIC SIGNAL STANDARD



Instantly permits the selection of any 10 Broadcast frequencies from 550 to 1,600 K.C. by means of push-buttons. Each button has its own "Trimaire" variable condenser, adjustable from the front panel. The E300 provides a rapid and accurate means of setting up push-button-operated tuning systems in home and car radios. High accuracy and zero drift is attained through stable, air-tuned circuits. Uses 1-1N5 and 1-1E4. Output is unmodulated or modulated 400 cycles at 50%. Attenuator does not affect oscillator frequency. Housed in black ripple metal case with carrying handle. Size, 12"x6"x6". With tubes and cable but less batteries (1-1½ and 2-45 V.). Shpg. wt., 9 lbs.

- A12047, NET** **\$24.45**

SERIES 870 AC-DC MULTI-RANGE TESTER



An outstanding Multi-tester providing 29 ranges. A simplified method of complete push-button circuit and range selection allows all A.C. and D.C. measurements (except the 3,000 volt range) to be made from only 2 polarized tip jacks. Readings are on a Precision D'Arsonval meter. Following ranges are available: 0-6-30-300-600-1,200-3,000 V. D.C. at 1,000 ohms per volt; 0-12-60-600-1,200-3,000 V. A.C. at 500 ohms per volt; 0-1-2-12-120-600-2,200 M.A., D.C.; 0-5,000-500,000 ohms; 0-5 megohms (using external battery); 5 D.B. ranges -10 to +64, and 5 output ranges same as A.C. volts. Low range ohmmeter reads 20 ohms center scale. Leakage of paper and electrolytic condensers is easily checked. Wire-wound shunts and matched metallized multipliers are used for high accuracy. Instrument is housed in a walnut-finished hardwood case with carrying handle. Size, 7"x4½"x3". Shpg. wt., 3½ lbs.

- A12043, NET** **\$17.59**

SERIES E200 SIGNAL GENERATOR



A Precision Signal Generator covering from 110 KC. to 72 MC. in 6 bands. The direct-reading, full-vision dial has deeply etched scales and numerals. A vernier segment permits reading to 1 part in 1,000. The E200 supplies A.V.C. voltage which is adjusted to coincide with the actual A.V.C. voltage developed by the receiver under normal conditions. A switch provides 4 outputs: unmodulated R.F., 400 cycle 0-100% modulated R.F., external modulated R.F., and 400 cycle audio. Latter is variable from 0 to 60 volts. Perfect shielding eliminates leakage. Has calibrated R.F. attenuator. Housed in black ripple steel case with carrying handle. Size, 12"x10½"x6". With tubes and Coaxial output cable. Shpg. wt., 19 lbs.

- A12048, NET** **\$35.23**
TIME PAYMENTS: \$3.52 down, \$4.36 monthly for 8 months.

WE CAN SUPPLY any Precision test equipment on easy time payment terms if your order amounts to \$35 or over. Order two or more Precision instruments and take advantage of this pay-as-you-use plan. Time payment information will be sent promptly upon request.

Modern

TEST EQUIPMENT

NEW MILLION TEST EQUIPMENT



NEW MODEL SY "SIGNALYZER"

This instrument enables you quickly to trace the signal in any receiver from antenna to voice coil. Absence of the signal is immediately detected by the electronic "eyes." A coaxial cable probe permits checks at high frequencies without disturbing circuit under test. The Signalizer is particularly useful in locating trouble in intermittent or "dead" receivers. Two phone jacks permit listening to the signal to detect hum or distortion. Oscillator performance is readily determined. Input impedance of the instrument is 6 megohms.

to the signal to detect hum or distortion. Oscillator performance is readily determined. Input impedance of the instrument is 6 megohms.

CHECKS RF-IF-AF-DC VOLTAGES

There are 4 channels available for simultaneous monitoring of the RF, IF, AF, and DC power supply circuits. Each channel has an amplifier stage for adequate sensitivity. Deflection of the "eyes" can be controlled. Three of the channels are for AC input while the fourth is for AC or DC. Cables are 30" long and have alligator clips. The beautifully finished bronze panel has black and white markings. Case is pearl gray and measures 7"x10"x6". With 11 tubes, cables and full instructions. For 115 V. 60 cycles. Shpg. wt., 12 lbs.

A10011. NET. \$3750
TIME PAYMENTS: \$3.75 down, \$4.64 monthly for 8 months.

MODEL DF TUBE AND CONDENSER TESTER

The Model DF tests all tubes including the latest Local, "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 neon bulb checks shorts and leakages up to 2 megohms. Tests emission and shorts.



CHECKS CONDENSER LEAKAGE

Complete instructions supplied for testing bypass and electrolytic condensers for shorts and leakage. Also provides for continuity checks. All test circuits are effectively insulated from the power line, and each tester is fused. A separate switch is used for line voltage adjustments. The Model DF is built to precision standards and features a ruggedness in design and assembly that insures accuracy under hard usage. The attractive case with removable cover measures 9"x9"x5". Has carrying handle and an 8 foot cord and plug. For 105-125 V. 60 cycles. Shpg. wt., 12 lbs.

A10012. NET. \$1695

VACUUM TUBE VOLTMETER



Measures values of DC, RF, or AF potential without disturbing the circuit under test. Input impedance never less than 12 million ohms. Nine push-buttons select these ranges: 0-3-15-30-150-300-600-900-1,500 and 3,000 volts. Tenth button is used for zero adjustment. Low-loss coaxial cable transfers voltage to divider. Size, 9"x13"x6". In walnut open-faced case. For 115 V. 60 cycles. Wt. 12 lbs.

A10013. Model XM. NET. \$2895

OD SIGNAL GENERATOR



Covers 100 K.C. to 25 M.C. in 6 bands. The direct-reading dial has a scale over 40" in length. Individually trimmed coils assure accuracy and eliminate dead spots. RF output can be modulated 400 cycles. A separate audio output, variable from 0 to 1 volt, is available for checking amplifiers. Dual attenuator for coarse and fine adjustment. Line filters and thorough shielding reduce leakage to a minimum. Size, 10"x7"x6". Has attractive bronze panel with ivory knobs. For 110 volts A.C. or D.C. Shpg. wt., 10 lbs.

A10014. NET. \$1995

BG DELUXE TUBE TESTER



Designed as a precision instrument of outstanding accuracy for testing all types of receiving tubes. Provides an approved emission test with readings on a "Good-Bad" meter scale. A neon lamp shows all shorts and leaks between any elements up to 2 megohms while tube is hot. Every precaution has been taken to protect instrument from obsolescence. The filament return selection circuit requires only 7 sockets for all present tubes. 3 extra sockets are provided for future tube releases. The filament supply is tapped from 1.4 to 110 volts in 13 steps with 10 spare positions. An extra space switch is also provided. The attractively finished case has metal feet and a removable cover. Size, 10"x12 1/2"x5 1/2". Has large, convenient compartment for tools, accessories, etc. The Cro-Art panel is bronze with black and white markings. For 96 to 132 V., 60 cycles. Shpg. wt., 15 lbs.

A10016. NET. \$2495

MILLION MODEL A POCKET MULTIMETER



The Model A is a 1,000 ohm-per-volt instrument designed to meet the needs of the Serviceman, Amateur or Experimenter. It is extremely compact, of sturdy construction, and features unexcelled accuracy. The following ranges are available through a rotary type switch: 0-6-120-300-1200 V. D.C.; 0-6-300 V. A.C.; 0-1-30-300 M.A. D.C.; 0-2,000-500,000 ohms; and -10 to +12 DB. The zero adjuster is common for both ohm scales. Space is provided for the self-contained battery. The Model A is supplied complete with battery and built-in test leads. Size, 2"x3 1/4"x6". Shpg. wt., 2 lbs.

A10015. NET. \$995

POPULAR LOW-COST POCKET TEST INSTRUMENTS

AUTO IGNITION ANALYZER



Here is an indispensable item for the auto owner, mechanic, or serviceman. It permits scientific, accurate checking of ignition systems with

a resultant increase in driving efficiency and reduction in gas consumption. Checks cam angle, batteries, coils, condensers, lamps, etc. A small neon bulb is included for checking leakage in the ignition system of any auto. Size, 2 1/4"x3 3/4"x1 1/2". Shpg. wt., 1 lb.

A10150. NET. \$691

MIDGET PYROMETER



This instrument is especially designed for high temperature measurements. Ranges are 0-700 and 0-2,000 degrees Fahrenheit. A jack and plug arrangement changes from one range to the other. A high grade millivoltmeter with 2" scale is used. Accuracy is 2% of full scale. Meter has been hand-compensated for room temperature. A welded iron No. 16 B. & S. gauge thermocouple is employed which extends approximately 12" from the case. Instrument is housed in an attractive black bakelite case and measures 1 3/4"x2 1/2"x3 3/4". Because of the extremely small size of this Pyrometer, it will find many useful applications around the shop. Shpg. wt., 1 lb.

A10155. NET. \$570



271 SIMPLEX VOLT-OHMMETER

An exceptionally compact, pocket-size test unit that finds ready use either for shop or portable work. Scale is marked 0-3, 0-30, 0-300 volts, D.C., and 0-10,000 ohms. Attractive walnut-finished bakelite case measures 1 1/4"x2 1/4"x3 3/4". Meter is of the magnetic vane type. Has pin jacks for quick selection of desired scale. Self-contained batteries included. Supplied with 30 inch polarized test-leads, and instructions. Shpg. wt., 1 lb.

A10151. YOUR PRICE. \$291



MODEL B381 DELUXE V.O.M.

An accurate tester that will prove handy on all service work. Moving coil type meter has a 2" dial. Ranges are: 0-1-10-50-100-500-1,000 V. D.C. at 1,000 ohms 0-2,000-50,000-500,000 ohms. A rotary switch quickly selects desired range. Has independent ohm-meter adjusting rheostats. Solid oak, natural finish case is 4 3/4"x7 1/4"x2 1/2". Beautifully etched aluminum panel. All multiplier resistors calibrated to ± 1%. With batteries, but less test leads. Wt., 2 lbs.

A10153. NET. \$876

10-N300 VOLT-OHMMETER



A very popular, pocket-sized test instrument. Ranges are: 0-300 V. D.C. and 0-10,000 ohms. Uses a magnetic vane type meter with 2" dial. Ranges are selected by means of jacks and a plug. The black hard-wood case measures 2 1/4"x2 3/4"x1 1/2". Easily fits in a pocket. Ohmmeter circuit uses 2 self-contained standard dry cells. Supplied complete with 24" polarized leads, test prods, and batteries. Shpg. wt., 1 lb.

A10152. NET. \$226

363 UNIVERSAL AC-DC V.O.M.



This instrument may be operated on either A.C. or D.C. current and has a wide range of usefulness. A high grade moving vane type meter is used with a 2" dial. Ranges are: 0-15-150-450 V. A.C. or D.C. 0-15 M.A. Provision has also been made to measure capacity of condensers from .01 to 20 mfd. Separate rheostat for ohmmeter zero adjustment. Has built-in power supply. No batteries required. Black bakelite case with removable back measures 1 3/4"x2 1/2"x3 3/4". With 30" test leads and instructions. For 115 V. A.C. or D.C. Shpg. wt., 1 lb.

A10154. NET. \$631

Modern TEST EQUIPMENT

NEW HICKOK TEST INSTRUMENTS

MODEL 510X DYNAMIC TUBE & SET TESTER



A desirable combination of a complete set tester and tube tester. Tube tester circuit is identical to Model 530 described below. The meter has a scale length over $4\frac{1}{2}$ ". A patented circuit permits the same linear scale readings for both A.C. and D.C. Ranges: 0-20-200-500-1,000 V. A.C. and D.C.; A.C. scales indicate output; 0-20-200 M.A., D.C.; 0-25 megs. in 3 ranges (no batteries used); .0001 to 24 mfd.; checks leakage of all condensers. Also checks inductance of chokes. Meter measures in D.B. An electronic rectifier permits permanent calibration. Beautifully finished case, $14" \times 13\frac{1}{4}" \times 6"$, with engraved metal panel. Tube chart inside of

cover. 110-125 V., 60 cycles. Shpg. wt., 25 lbs. **\$6174**

A1029. CASH PRICE.....
Time Payments: \$6.17 down, \$7.65 monthly for 8 months.

MODEL 530 DYNAMIC TUBE TESTER

The only dual-reading instrument that indicates Dynamic Mutual Conductance in micromhos plus "Good-Bad." Uses $4"$ square meter with a multi-color illuminated dial. Micromhos in 3 ranges: 0-3,000-6,000-15,000. Tests all new filament voltage tubes up to 120 volts, as well as ioktal, octal, pilot lamps, ballasts, and magic eyes. Selector switches preclude obsolescence. Tests tubes for R.F., noise and gas. Each element of a tube tested separately. Short tests made hot or cold. Uses a roll-type chart for quick reference. Operates on 110-120 V., 60 cycles. Size: $14" \times 13\frac{1}{4}" \times 6"$. Shpg. wt., 22 lbs.

A10230. MODEL 530P. Portable Type.
A10231. MODEL 530C. Counter Type. Same as above but without carrying case cover. **\$5174**

YOUR PRICE, EITHER MODEL.....
Time Payments: \$5.17 down, \$6.41 monthly for 8 months.

MODEL 4922 "JUMBO" VOLT-OHM-MILLIAMMETER



The 4922 has a meter $9"$ in diameter with a sensitivity of 28,570 ohms per volt. Scales are over $7"$ in length for easy, accurate readings. Ranges are: 0-10-50-250-500-2500 volts A.C. and D.C.; 0-500 microamperes D.C.; 0-5-50-500 M.A., D.C.; 0-30-10,000 ohms, 0-1-10 megohms and -10 to -15 D.B. A blocking condenser permits using A.C. voltage ranges as an output meter. Highly accurate. Size, $13\frac{1}{2}" \times 10\frac{1}{2}" \times 7\frac{1}{2}"$. Shpg. wt., 15 lbs.

A10319. CASH PRICE..... \$3528

\$3.53 down, \$4.37 monthly for 8 months.

A10315. Shunt. Increases range 0-5-50 amps. D.C. NET. \$4.41

"JUMBO" RADIO-TELEVISION ZERO CURRENT PANEL TESTER



Made extra-large for super speed. Scale $8\frac{1}{2}"$ long. Ranges: 0-2.5-25-250-2,500 V. A.C. and D.C. at 1,000 ohms per volt; 0-2.5-25-250 V. D.C. at infinite ohms per volt; 0-5-25-25-250 M.A., D.C.; 0-2.5-25 amps. D.C.; 0-5 amps. A.C.; capacity .0001 to 200 mfd.; resistance 0 to 50 meg.; -10 to -15 D.B. Special jacks provide 0-1,000-10,000 V. D.C. at 88,888 ohms per volt. $13\frac{1}{2}" \times 14\frac{1}{4}" \times 6"$. Supplied in attractive case finished in blue. Shpg. wt., 24 lbs.

\$5821

A10324. CASH PRICE.....
Time Payments: \$5.82 down, \$7.21 monthly for 8 months.

OTHER HICKOK INSTRUMENTS

We can supply any Hickok instrument not listed above. When placing your order, please give manufacturer's type or model number. Descriptive literature and time payment blanks on Hickok test equipment will be mailed promptly upon request. On time payment plan send deposit with your order to facilitate prompt shipment. We can supply the following Hickok Test Instruments promptly:

- A10323. Model 17. Signal Generator Without Power Level Meter. CASH \$46.45 or \$4.65 down, \$5.75 monthly for 8 months.**
- A10322. Model 18. Signal Generator With Power Level Meter. CASH \$55.86 or \$5.59 down, \$6.92 monthly for 8 months.**
- A10301. Model PSG15. Signal Generator. CASH \$73.50 or \$7.35 down, \$9.10 monthly for 8 months.**
- A10303. Model RF04. Oscillograph. CASH \$92.90 or \$9.29 down, \$11.50 monthly for 8 months.**
- A10321. Model 4800S. Set Tester With Multi-Selector. CASH \$61.74 or \$6.17 down, \$7.65 monthly for 8 months.**
- A10304. Model 4900S. Set Tester Less Multi-Selector. CASH \$50.57 or \$5.06 down, \$6.26 monthly for 8 months.**
- A10225. Model 4955. Volt-Ohm-Milliammeter. NET CASH ONLY \$24.11.**
- A10305. Model 4955. Volt-Ohm-Milliammeter with Carrying Case. NET CASH ONLY \$25.53.**
- A10232. Model 19X. Crystal-Controlled Microvoltage. CASH \$82.32 or \$8.23 down, \$10.19 monthly for 8 months.**
- A10233. Model 120. Crystal Multi-Vibrator. CASH \$48.80 or \$4.88 down, \$6.04 monthly for 8 months.**
- A10234. Model 110. AC-DC Vacuum Tube Voltmeter. CASH \$52.92 or \$5.29 down, \$6.55 monthly for 8 months.**

SOLAR CAPACITY ANALYZERS

One of the most popular instruments for quickly and accurately determining the capacity of any condenser between .00001 and 70 mfd. A 6E5 tube is used as a bridge-balance indicator; capacity of condenser under test is shown directly on accurately calibrated color-coded scale. Also measures power factor, and detects defective condensers. Two large resistance scales give readings up to 2 megohms, for checking insulation resistance, or for measuring resistors. Checks all types of condensers. No headphones, meters, etc., are required; compactly built in sturdy, attractive cabinet, with handle for carrying. Measures $9\frac{1}{2}" \times 5\frac{1}{2}" \times 6\frac{1}{2}"$. Requires 1-1V and 1-6E5 (not supplied). An efficiently engineered instrument. Shpg. wt., 9 lbs.



A10186. Model CB-1-60. For 110 V. 60 cycle. \$1882 NET

A10187. Model CB-2-U. For 110-220 V. 25-60 cycle. \$23.52 NET

MODEL CC CAPACITY ANALYZER

The Model CC Capacity Analyzer and Bridge is similar to the CB Models described above, but has the advantage of extended capacity and resistance ranges. Measures resistance from zero to 2,000,000 ohms; capacity from .00001 to 800 MFD; power factor of condensers up to 50%, and insulation resistance to 1,000 megohms. Test voltages are available up to 600 volts D.C. Requires 1-80 and 1-6E5 which are not supplied. Shpg. wt., 10 lbs.

A10183. MODEL CC-1-60. 110 V. 60 cycle. \$2440 NET

A10184. MODEL CC-2-U. 110-220 V. 25-60 cycle. \$29.40 NET

WESTON TEST INSTRUMENTS

MODEL 772, TYPE 2 SUPER-SENSITIVE ANALYZER

Has $4\frac{1}{2}"$ multi-scale meter with 100 division scale and knife-edge pointer. Checks all types of radio sets and transmitters; has high sensitivity for analysis of television circuits. Ranges: 0-2.5-10-50-250-1000 volts D.C. at 20,000 ohms per volt, and A.C. at 1000 ohms per volt; 0-100 micro-amperes D.C.; 0-1-10-50-250 D.C. M.A.; 0-1-10 Amps. D.C.; 0-3000-30,000 ohms; 0-3-30 megs.; -14 to -54 D.B. Ohmmeter used for condenser leakage tests. In fabricoid carrying case, $15\frac{1}{2}" \times 8\frac{1}{2}"$. Shpg. wt., 12 lbs.



A10350. CASH PRICE..... \$4950

\$4.95 down, \$6.13 monthly for 8 months.

MODEL 773 TUBE CHECKERS

Double-checks doubtful tubes. Permits a total emission test and R.M.A. load test. Point-to-point electrode check detects defective elements. Continuous line voltage control read on meter.

A10355. MODEL 773-1. Portable Type. CASH..... \$45.00

Time Payments: \$4.50 down, \$5.57 monthly for 8 months.

A10352. MODEL 773-2. Counter Type. CASH..... \$50.63

Time Payments: \$5.06 down, \$6.27 monthly for 8 months.

MODERNIZE ANY TUBE-CHECKER WITH MODEL 767 FILATROL

Check new high-voltage tubes with your present tube checker. One lead from Filatrol plugs into the 4-prong socket on your tube tester, and other lead plugs into a 110 V. A.C. outlet. Place the tube to be tested in octal socket. Tubes requiring 35 to 117 volts can be checked in this manner. Complete instructions are supplied.



A10271. NET PRICE..... \$495

OTHER WESTON INSTRUMENTS

We can supply all Weston units. Give manufacturer's model and type number for the instrument desired. Descriptive literature will be forwarded promptly upon request. Most Weston units are available on convenient time payments. Write for application blanks and time payment details or send deposit with order for quick service.

Catalog No.	Model No.	CASH PRICE	TIME PAYMENTS		
			Down	Monthly	Month
A10354	771	\$55.13	\$5.51	\$6.83	8
A10360	775	93.00	9.30	11.51	8
A10361	776	25.25	6.53	8.08	8
A10351	787	93.75	9.38	11.60	8
A10363	666-1B	15.83			8
A10357	669	49.50	4.95	6.13	8
A10359	689-1E	13.50			8
A10362	691	21.56	5.16	6.38	8
A10362	695-11	28.00			8
A10358	697	24.00			8
A10353	694	28.80			8

SERVICE Instruments

NEW BERNARD POPULAR-PRICED TEST INSTRUMENTS

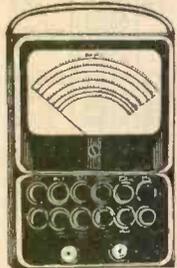
ROTARY AUTOMATIC AC-DC 5000 OHMS PER VOLT V.O.M.



This new instrument is equipped with a single control switch to select 24 ranges. Has automatic ohms and A.C. feature. Uses a precision meter, 3" square, with knife-edge pointer, zero adjuster, and colored scales; accuracy, 2%. Ranges: 0-3-10-50-250-500-5,000 V. D.C., at 5,000 ohms per volt; 0-2,000 (15 ohm center) -20,000-200,000 ohms, 2 meg. with 3 V. battery supplied; 0-200 micro-amps. 0-2-20-200 M.A. 0-10 A. D.C.; 0-15-150-1,500 V. A.C. at 1,200 ohms per volt; -10 to +58 D.B. in 3 ranges; 3 output ranges 0-15-150-1,500 V. Tests condensers for quality. In wood case with test leads, 6 1/2" x 3 1/2" x 3 1/4". Shpg. wt., 3 lbs. Less test leads. Model 402S. NET PRICE

A10240, Model 402J. Same as Model 402S but less cover. 6 1/2" x 3 1/2" x 3". Less test leads. NET \$11.90

PUSH-BUTTON AUTOMATIC AC-DC V.O.M.



A full 4 1/2" precision 0-200 micro-ammeter with multi-colored scales. Has automatic ohms and A.C. feature controlled by latch-type safety push-buttons. Ranges are: 0-4-5-10-50-250-500-2,500-5,000 V. D.C., at 5,000 ohms per volt; 0-15-45-150-750-1,500-3,000 V. A.C.; 6 output meter ranges with built-in condensers; -20 to +68 D.B. in 6 ranges; 0-200 micro-amps. 0-2-20-200 M.A., 0-1-5-50 A. D.C.; and 0-3,000 (22 1/2 ohm center) -30,000-300,000 ohms-3 meg., with 4.5 V. battery (supplied); 0-30 meg., requires external 45 V. supply and 0-300 meg., 450 V. supply. Tests condensers for quality and leakage. Less test leads and external voltage supplies. Size: 5 1/2" x 4". Shpg. wt., 6 lbs. A10241, Model 401, NET \$16.90

PORTABLE TUBE TESTER VOLT-OHM-MILLIAMMETER



Features a 3" square meter marked "NG-7-OK" and is also provided with V-O-M ranges. A neon tube tests hot or cold cathode leakage, shorts, opens, noise, and gas. Tests new S and Local tubes. Spare socket guards against obsolescence. V-O-M operated with slide switches. Automatic ohm and A.C. circuits eliminate AC-DC switching and ohms scale adjustments. Ranges: 0-3-10-50-250-500-5,000 V. D.C. at 1,000 ohms per volt; 0-1-10-100 MA. and 0-10 A. D.C.; 0-2,500 (15-ohm center) -25,000-250,000 ohms with 3 V. battery (supplied), and using decimal-repeating scale without skips; 0-15-1,500 V. A.C., and output meter range. Tests condensers for quality and leakage. Includes test leads. In wood case. Size: 6 1/2" x 15" x 5 1/2". 110 V., 60 cycles. Shpg. wt., 16 lbs. A10242, Model 405P. Portable Type. NET \$23.90

A10243, Model 405C. Counter Type. Same as above but in an open wood case. Shpg. wt., 15 lbs. NET \$21.90

A10244, Model 405A. Tube Tester Only. In an open case for store counter, shop, or home bench, without V-O-M. Less test leads. Shpg. wt., 14 lbs. NET \$17.90

CORNELL-DUBILIER CONDENSER ANALYZER



This instrument quickly and accurately measures important characteristics of all types of condensers. Range from .00001 to 240 mfd. This analyzer will determine the exact condition of all paper, mica, and electrolytic condensers, including A.C. motor-starting types. It is the only instrument of its type which provides a complete test for all condensers. Has amplifier for adequate sensitivity. Has colored, easy-reading, accurately-calibrated linear scales with push-button switches, D.C. voltage supply, and visual eye leakage indicator. For 110-120 V. 50-60 cycles. In walnut cabinet, with cord and test leads. Less tubes (12A7 and 6E5). 6 1/2" x 12" x 9 1/4". Wt., 12 lbs. A10175, Model BF-50, NET \$24.40

A10176, Model BN, NET \$9.70

CORNELL-DUBILIER ULTRA-COMPACT BRIDGE



An accurately designed bridge that measures all types of condensers between .00001 and 50 mfd. Accuracy independent of line voltage variation. Indicates power factor of electrolytic condensers. Useful as a continuity meter and for locating opens, shorts, high or low capacity, high power factor, etc. Direct-reading ranges are calibrated directly in microfarads. The most useful instrument of its type ever offered to the service field. For 110-120 V., 60 cycles. Size: 3 1/2" x 5" x 3". Shpg. wt., 3 lbs. A quality-built instrument at a low price. A10176, Model BN, NET \$9.70

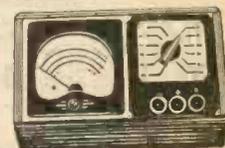
A10176, Model BN, NET \$9.70

19 RANGE POCKETMETER 2500 V. DC — 1,500 V. AC



Has a 3" square meter with zero adjuster and knife-edge pointer. Features automatic A.C. switching. Has only one ohms adjustment for all resistance ranges; all other ranges may be selected with one control. Ranges: 0-1-5-10-50-250-500-2,500 V. D.C., at 1,000 ohms per volt; 0-1-10-100 M.A., 0-1 amp. D.C.; 0-2,500 (15 ohm center) -25,000-250,000 ohms with 3 V. battery (supplied); 0-15-150-1,500 V. A.C.; output ranges; -10 to +58 D.B. in 3 ranges. Also makes condenser quality test. In open wood case, 6 1/2" x 3 1/2" x 3". Less test leads. Shpg. wt., 3 lbs. A10245, Model 403, NET \$8.90

VOLT-OHM-MILLIAMMETER D.C. POCKET TESTER



Uses 3" square meter. Has automatic ohms circuit. Ranges: 0-1-5-10-50-250-500-2,500-5,000 V. D.C. at 1,000 ohms per volt; 0-1-10-100 M.A. and 0-1 amp. D.C.; 0-2,500 (15 ohm center) -25,000-250,000 ohms with 3 V. battery (supplied); 0-2-5 meg. with external 45 V. supply and 0-25 meg. with 300 V. external supply. Tests condensers for quality. Size: 6 1/2" x 3 1/2" x 3". Less test leads and external voltage supply. Wt., 3 lbs. A10246, Model 404, NET \$6.90

5000 OHMS PER VOLT PORTABLE ANALYZER



Permits capacity and inductance measurements. Incorporates a precision 4 1/2" square 0-200 micro-ammeter; accuracy, 2%. Ranges: 0-2-5-10-50-250-500-2,500 V. D.C. at 5,000 ohms per volt; 0-1-10-100 M.A., 0-1-10 A. D.C.; 0-3,000 (22 1/2 ohm center) -30,000-300,000 ohms, 0-3-30 meg. with 4.5 V. and 45 V. batteries (supplied); 0-300 meg. with external 300 V. supply; 0-005-.05 mfd.; .05-100 mfd.; 0-70-10,000 henries; 0-15-150-1,500 V. A.C.; -10 to +58 D.B. in 3 ranges; also output ranges. Tests condenser quality. For 105-130 V., 60 cycles. 15" x 9" x 5 1/2". With test leads, Wt., 15 lbs. A10247, Model 407 NET \$29.90

A10248, Model 4105. Similar to 407 but less capacity and inductance ranges. Ohms 0-2,500-25,000-250,000 with battery supplied. 0-2.5 meg. with 45 V. battery (not supplied). With test leads. NET \$19.90

409 SIGNAL GENERATOR



An all-wave oscillator covering 116-350 K.C., 350-1,050 K.C., 1.05-3.7 M.C., 3.7-12 M.C., 14-35 M.C., 30-75 M.C. (4 meters), all on fundamentals. Two output impedance levels; 1% accuracy on I.F. and broadcast, 2% to 12 M.C. Uses 352 degree dial, 7" dia., Wobbler, and separate audio posts. Shielded cables and tubes supplied. For 105-130 V., 60 cycles. Shpg. wt., 16 lbs. A10249, NET PRICE \$19.90

TRIUMPH 3" OSCILLOGRAPH AND WOBBLATOR



A combination 3" Oscillograph and Wobbulator. The model 830 serves as a T.V.M. and wave-form analyzer. Essential for flat topping I.F.'s and aligning A.F.C. circuits; also provides for overall set analysis. Frequency response of both amplifiers is 10-100,000 cycles. Hystraton linear timing sweep, 7-30,000 cycles. Absolute locking on all frequencies. The wobbulator has variable band width, 0-50 K.C., automatically synchronized and electronic frequency-modulated on 1,000 K.C. fundamental. In black wrinkle-finished case, 10 1/2" x 7 1/2" x 14". 105-125 V., 60 cycles. Shpg. wt., 28 lbs. A10119, Model 830, \$68.55

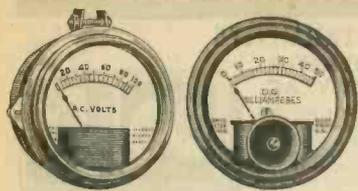
CASH PRICE \$68.55
Time Payments: \$6.86 down, \$8.49 monthly for 8 months.

MODEL 130 VIDEO SIGNAL GENERATOR



A Triumph instrument with a range of 100 K.C. to 96 M.C., in 5 bands, for radio and television frequencies. Accuracy 1/2% of 1% on easily-read 350-degree dial. Direct-reading linear output attenuator and multiplier. Controlled percentage of modulation calibrated on front panel, 0-75%. Pure 400 cycle audio sine wave, variable 0-2 1/2 volts. In black wrinkle-finished metal case. Front panel is ivory with black embossing, 13 1/4" x 10 1/2" x 8". 105-125 V., 60 cycles. Shpg. wt., 22 lbs. A10120, NET \$29.35

READRITE METERS SHUNTS RECTIFIERS



Standard Type Zero Adjustment

READRITE PANEL METERS

MODEL 55 D.C.

The popular and economical Readrite line used extensively in radio and electrical work where an efficient low-priced meter is required. Accuracy assured within 5%. D.C. meters are polarized vane, solenoid type. Require 2 1/4" mounting hole. Have easy-reading white dial, black lettering and full nickel-finish metal shell. Clamp included to hold meter tight against panel. Screw connections with binding nuts on rear. 2 1/4" diameter. For outside flange mounting use No. 65A Flange ring.

MODEL 95

Here is a new addition to the famous line of Readrite meters. Model 95 is modernistic and up-to-date. The beautiful black lacquer-finished square case measure 2 1/2" x 2 1/2". Wrinkle, nickel, and chrome finishes are also available on special order. Meters require a 2 1/2" hole for mounting. Ideal modern low cost meters with dependable accuracy.



Without Zero Adjustment

D.C. VOLTMETERS

Volts	Resist. Ohms	MODEL 55		MODEL 95	
		Without Zero Adjustment	With Zero Adjustment	Without Zero Adjustment	With Zero Adjustment
0-1	30	A7360	A7375	A7250	
0-3	175	A7381	A7376	A7251	
3-0-3	550	A7352	A7377	A7252	79c
0-5	410	A7353	A7378	A7253	
0-6	550	A7354	A7379	A7254	
0-8	850	A7355	A7380	A7255	
0-10	1475	A7356	A7381	A7256	
0-15	2914	A7357	A7382	A7257	79c
0-25	1625	A7358	A7383	A7258	
0-25	7720	A7359	A7384	A7259	\$1.82
0-50	3250	A7360	A7385	A7260	.94
0-50	15440	A7361	A7386	A7261	2.12
0-100	6500	A7362	A7387	A7262	1.09
0-100	30888	A7363	A7388	A7263	2.12
0-150	9750	A7364	A7389	A7264	1.23
0-150	46320	A7365	A7390	A7265	2.12
0-300	92640	A7366	A7391	A7266	2.12
0-500	154400	A7367	A7392	A7267	2.85
0-750	231600	A7368	A7393	A7268	3.44
0-8-160	16200	A7369	A7394	A7269	1.53
0-60-300	92640	A7370	A7395	A7270	2.85
0-15-60	180000	A7371	A7396	A7271	3.44

D.C. MILLIAMMETERS

M.A.	Resist. Ohms	MODEL 55		MODEL 95	
		Less Zero Adj.	With Zero Adj.	Less Zero Adj.	With Zero Adj.
0-5	2160	A7400	A7414	A7428	A7499
0-10	700	A7401	A7415	A7429	A7500
0-15	295	A7402	A7416	A7430	A7501
0-25	85	A7403	A7417	A7431	A7502
0-50	20	A7404	A7418	A7432	A7503
0-100	5.5	A7405	A7419	A7433	A7504
0-150	3.3	A7406	A7420	A7434	A7505
0-200	1.9	A7407	A7421	A7435	A7506
0-300	.8	A7408	A7422	A7436	A7507
0-400	.5	A7409	A7423	A7437	A7508
0-20-100	175-30	A7410	A7424	A7438	A7509
0-15-150	305-24	A7411	A7425	A7439	A7510

A.C. VOLTMETERS*

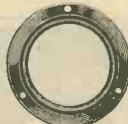
Volts	MODEL 55		MODEL 95	
	No.	Each	No.	Each
0-4	A7450	\$1.62	A7306	\$1.82
0-6	A7451	1.62	A7307	1.82
0-10	A7452	1.62	A7308	1.82
0-15	A7453	1.62	A7309	1.82
0-150	A7454	2.65	A7310	2.85
0-300	A7455	3.23	A7311	3.44
0-600	A7456	3.82	A7312	4.03
0-750	A7457	4.56	A7313	4.76
0-10-140	A7458	2.65	A7314	2.85

A.C. MILLIAMMETERS*

M.A.	No.	MODEL 55		MODEL 95	
		Each	No.	Each	
0-25	A7462		A7324		
0-50	A7463		A7325		
0-100	A7464	1.62	A7326	1.82	
0-250	A7465		A7327		
0-500	A7466		A7328		

65A FLANGE RING

Converts any Readrite Model 55 meter for flange mounting. A7473. NET.....9c.



PLUG-IN LINE TYPE

0-150/A7459/\$2.65

A.C. AMMETERS*

Amps.	No.	MODEL 55		MODEL 95	
		Each	No.	Each	
0-1	A7468		A7317		
0-3	A7469		A7318		
0-5	A7470	1.62	A7319	1.82	
0-10	A7471		A7320		
0-50	A7472	\$2.20	A7321	\$2.40	

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

INDUCTION AMMETER

Indicates automobile starter current. Reads 400-0-400 amp. D.C. A7499. \$1.76



D.C. AMMETERS

Amps.	Type	No.	NET Each		No.	NET Each	
			59c	73c		79c	79c
0-1	380	A7428		A7438		A7275	
0-3	336	A7429		A7439		A7276	
0-5	381	A7430	59c	A7440	73c	A7277	79c
0-10	338	A7431		A7441		A7278	
0-25	382	A7427	\$0.88	A7437	\$1.03	A7279	\$1.09
0-50	383	A7426	1.32	A7449	1.47	A7280	1.53
1-0-1	101	A7432		A7442		A7281	
3-0-3	303	A7433		A7443		A7282	
6-0-6	606	A7434	59c	A7444	73c	A7283	79c
10-0-10	110	A7435		A7445		A7284	
20-0-20	220	A7436		A7446		A7285	
30-0-30	330	A7448	\$1.18	A7447	\$1.32	A7286	\$1.38
50-0-50	550	A7461	1.32	A7460	1.47	A7287	1.53

RESISTANCE METER

MODEL 501

Direct reading; 0-10,000 ohms, 0-4 1/2 volts. Measures resistance and checks continuity in radio and electrical circuits. Uses 3 small flashlight cells. A7341. NET.....88c.

RESISTORS

No. 503 Resistor. 1150 ohms resistance to increase No. 501 ohmmeter reading to 60,000 ohms when used with 2 1/2 V. battery. A7343. NET.....59c.

No. 504 Resistor. 2,300 ohms, center-tapped, for use with 4 1/2 V. "B" to increase reading of No. 501 ohmmeter to 100,000 ohms. A7344. With tip jacks. \$1.32 NET.....

OUTPUT METER

MODEL 575

Indicates output voltages for correct alignment of RF and IF stages. Ranges: 0-5, 0-50 volts. Has copper-oxide rectifier. In 1/2" black metal case. A7348. \$4.85 NET.....

MODEL 515 OUTPUT METER

Same as Model 575 above but with Trip-let "Red Dot" meter. Has range of 2.5-5 volts. 750 ohms resistance per volt. \$9.70 A7349. NET.....

CONTINENTAL CARBON TYPE A PRECISION RESISTORS



A new 1-watt type of carbon resistor, impregnated, and hermetically sealed in glass. For high resistance voltmeter multipliers and circuits requiring real stability. 1 1/2" x 1/4" dia.

SPECIFY VALUE DESIRED

Ohms	Volts at 1 M.A.	Ohms	Volts at 1 M.A.	Ohms	Volts at 1 M.A.
100	.2	8500	8.5	100000	100
200	.4	*8950	9	150000	150
400	.4	*9950	10	200000	200
500	.5	10000	10	240000	240
1000	1	13500	13.5	250000	250
*1450	1.5	15000	15	300000	300
2000	2	20000	20	400000	400
*2950	3	25000	25	450000	450
3500	3.5	30000	30	490000	490
*4450	4.5	40000	40	500000	500
*4950	5	50000	50	600000	600
5000	5	60000	60	750000	750
*5500	5.5	75000	75	800000	800
*5950	6	85000	85	900000	900
*7450	7.5	90000	90	1000000	1000

*These units allow for the 50 ohms internal resistance of the milliammeter. A8198. Accuracy within 2%. EA.....29c. A8199. Accuracy within 5%. EA.....18c

CONANT RECTIFIER

Type "M" full-wave rectifier for converting D.C. meters for A.C. use. Input 10 volts RM; output 20 M.A. \$2.06 A2503. NET.....



KNIGHT 50 OHM SHUNTS



Individually calibrated to an accuracy of ± 1/2 of 1%. Ideal for increasing the range of 0-1 mil meters. Wire is hard-drawn manganin. For 50 ohm meters.

No.	M.A.	No.	M.A.
A2369	5	A2373	100
A2370	10	A2374	250
A2371	25	A2375	500
A2372	50	NET EACH.....	49c.

KNIGHT COMBINATION SHUNTS

No.	Milliamp.	NET EACH,
A2377	10-50-200	\$1.29
A2378	50-100-250	
A2379	50-250-500	

COPPER-OXIDE RECTIFIERS

5 M.A. CAPACITY

Miniature type. Converts D.C. meters drawing less than 5 M.A. to A.C. instruments. 3/8" square. A2500. \$2.15 NET.....



20 M.A. CAPACITY

3/8" round, 3/4" long. Converts D.C. meters drawing not over 20 M.A. to A.C. A2501. NET.....\$1.88

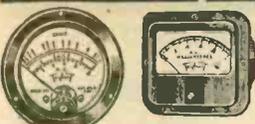


50 M.A. CAPACITY

3/4" dia.; 1 1/2" long. Heavy-duty type for use where current does not exceed 50 M.A. A2502. NET.....\$1.75



TRIPLETT • BEEDE



321-521 326-726
TRIPLETT FOUNDATION KITS
1000 OHMS PER VOLT

These high-quality, precision-built Triplett meters, with the shunts and multipliers described below, afford the opportunity to build an extremely accurate, multi-scale volt-ohm-milliammeter at low cost. The four meters incorporate an internal resistance of 100 ohms and a sensitivity of 1,000 ohms per volt. Ranges are as follows: 0-10-50-250-300-1,000 volts D.C.; 0-500-100,000 ohms; and 0-10-50-250 mils D.C. Readings as low as .2 ohms can readily be made. All meters are equipped with zero adjustments and have knife-edge pointers. Each instrument has wiring diagram.

- MODEL 321**
Flange, 3 1/4" diameter, flush mounting. Scale length 2 1/2". Molded bakelite case. **\$4.90**
A8946. NET.....
- MODEL 326**
Flange, 3 1/4"x2 1/4" flush mounting. Scale length 2 1/4". Molded bakelite case. 3 lbs. **\$4.90**
A8941. NET.....
- MODEL 521**
Flange measures 5 1/4" diameter, flush mounting. Scale length 3 1/2". Molded bakelite case. 3 lbs. Shpg. wt. 5 lbs. **\$6.86**
A8949. NET.....
- MODEL 726**
Flange measures 6 1/4"x7 3/4" flush bakelite case. Has a scale length of 6 inches. 8 lbs. **\$11.43**
A9116. NET.....

- RESISTORS & SHUNTS**
A8942. Resistors mounted on bakelite to net following ranges: 0-10-50-250-300-1,000 volts D.C. **NET..... \$7.17**
- A8943.** Shunts mounted on bakelite for 0-10-50-250 mils D.C., shunt for low ohms, and current limiting resistors for low and high ohms. **\$2.28**
- A8778.** Zero adjuster for ohms. **NET..... \$65.**
- A8779.** Selector switch with knob. **\$1.33**
- A8944.** Current limiting resistors for the 100,000 ohm meter range. **NET..... \$65.**

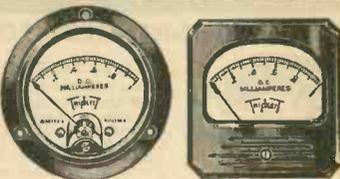
MALLORY-YAXLEY RESISTANCE KITS

These new kits fill a definite need in the Service, Amateur, and Experimental fields. Each kit contains all necessary material to construct flexible resistors of a wide range of values. With these kits it is possible to construct the "odd-value" resistors so often found necessary in building test equipment and experimental circuits. Ideal for use wherever high quality flexible resistors are necessary. Each kit includes: 1 yard of spiral-wound resistance wire, 1 yard of insulated braid, and 10 spiral wire leads. Resistance value remains constant through unlimited life. Correct resistance may be obtained by cutting the spiral resistance wire to measurement. All types listed safely dissipate 1/2 watt per inch.

No.	Resistance	NET
A9235.	10hm per in.	EA.
A9236.	100hms per in.	EA.
A9237.	1000hms per in.	EA.
A9238.	5000hms per in.	44.

TRIPLETT PRECISION METERS

These accurate, dependable meters are available in a variety of styles, sizes, and ranges. Incorporate a rugged D'Arsonval movement which assures an accuracy within 2%. The genuine polished sapphire-jeweled bearings are set in adjustable screws. All instruments have zero adjustments and balanced aluminum ribbed type pointers. Metal dials are beautifully finished in white enamel with large, easily-read scales. The A.C. meters are the movable iron-repulsion type, are air-damped, and have light moving parts. D.C. meters have well-aged magnets of special construction, assuring accurate readings. Zero adjusting screw is accessible from front of meter. Front lighting and portable frame attachments are available for Models 321 and 331. See descriptions at right. Average shpg. wt., 3 lbs. each.



321-221 D. C. 227-327 D. C.
331-231 A. C. 237-337 A. C.

METER DIMENSIONS

Model	Flange	Mtg.	Scale	Case
221	2 1/2"	Flush	1 1/2"	Bakelite
227	2 1/2"x2 3/8"	Flush	1 1/2"	Bakelite
231	2 1/2"	Flush	1 3/8"	Bakelite
237	2 1/2"x2 3/8"	Flush	1 3/8"	Bakelite
321	3 1/2"	Flush	2 1/4"	Bakelite
327	3x3"	Flush	2 1/4"	Bakelite
331	3 1/2"	Flush	2 1/4"	Bakelite
337	3x3"	Flush	2 1/4"	Bakelite

PORTABLE FRAME
Designed to house Triplett Model 321 and 331 meters. Built of black wrinkle-finish metal. Both binding posts insulated from frame. **98c**
A9074. NET.....

DIAL LIGHTING ATTACHMENT
For Triplett Models 321 and 331. Easily attached. With 6.3 V. bulb. **98c**
A9071. NET.....

D.C. MILLIAMMETERS

Model	Flange	Mtg.	Scale	Case	NET	
321	327	NET	M. A.	221	227	NET
A8650	A8664	\$4.57	0-1	A8736	A8786	\$3.75
A8651	A8665		0-1.5	A8737	A8787	
A8652	A8666	3.75	0-5	A8738	A8788	2.94
A8653	A8667		0-10	A8739	A8789	
A8654	A8668		0-15	A8740	A8790	
A8655	A8669		0-25	A8741	A8791	
A8656	A8670	3.75	0-50	A8742	A8792	2.94
A8657	A8671		0-100	A8743	A8793	
A8661	A8672		0-150	A8744	A8794	
A8658	A8673		0-200	A8745	A8795	
A8663	A8674	3.75	0-250	A8746	A8796	2.94
A8659	A8675		0-300	A8747	A8797	
A8660	A8676		0-500	A8748	A8798	
A8662	A8677		0-750	A8749	A8799	

D.C. VOLTMETERS (125 Ohms Per Volt)

321	327	NET	Volts	221	227	NET
A8761	A8450		0-5	A8462	A8474	
A8691	A8451		0-10	A8463	A8475	
A8692	A8452	\$3.75	0-15	A8464	A8476	\$2.94
A8693	A8453		0-25	A8465	A8477	
A8694	A8454		0-50	A8466	A8478	
A8695	A8455	3.75	0-100	A8467	A8479	2.94
A8696	A8456	3.75	0-150	A8468	A8480	2.94
A8762	A8457	4.57	0-250	A8469	A8481	3.75
A8697	A8458	5.39	0-300	A8470	A8482	4.24
A8698	A8459	6.04	0-500	A8471	A8483	5.06
A8699	A8460	7.18	0-750	A8472	A8484	5.88
A8690	A8461	8.33	0-1000	A8473	A8485	9.56

A.C. VOLTMETERS

331	337	NET	Volts	231	237	NET
A8830	A8700		0-5	A8711	A8486	
A8831	A8701	\$3.75	0-10	A8712	A8487	\$2.94
A8832	A8702		0-15	A8713	A8488	
A8833	A8703		0-25	A8714	A8489	
A8834	A8704	3.75	0-50	A8715	A8490	2.94
A8835	A8705	3.75	0-100	A8716	A8491	2.94
A8836	A8706	4.57	0-150	A8717	A8492	3.75
A8837	A8707	5.39	0-300	A8718	A8493	4.73
A8838	A8708	7.18	0-500	A8719	A8494	6.53
A8839	A8709	9.56	0-750	A8720	A8495	7.52
A8840	A8710	10.46	0-1000	A8721	A8496	9.63

D.C. VOLTMETERS (1000 Ohms Per Volt)

321	327	NET	Volts	221	227	NET
A8722	A8678		0-05	A8853	A9050	
A8723	A8679		0-10	A8854	A9051	
A8724	A8680	\$5.39	0-25	A8855	A9052	\$4.24
A8725	A8681		0-50	A8856	A9053	
A8726	A8682	5.71	0-100	A8857	A9054	5.07
A8727	A8683	5.71	0-150	A8858	A9055	5.07
A8728	A8684	6.53	0-200	A8859	A9056	5.71
A8729	A8685	7.18	0-300	A8860	A9057	6.53
A8730	A8686	9.04	0-750	A8861	A9058	7.84
A8731	A8687	10.46	0-1000	A8862	A9059	9.31
A8732	A8688	7.18	0-150	A8863	A9060	6.53
A8733	A8689	10.29	0-15-60	A8864	A9061	9.14
			300-600			

D.C. AMMETERS

321	327	NET	Amps.	221	227	NET
A8752	A8872		0-1	A8878	A8884	
A8753	A8873	\$3.75	0-10	A8879	A8885	\$2.94
A8754	A8874		0-10	A8880	A8886	
A8755	A8875		0-25	A8881	A8887	
A8759	A8876	\$3.75	20-0-20	A8882	A8888	\$2.94
A8760	A8877		30-0-30	A8883	A8889	

A.C. AMMETERS

331	337	NET	Amps.	231	237	NET
A8866	A8763		0-1	A8771	A8821	
A8867	A8764		0-2	A8772	A8822	
A8868	A8765	\$3.75	0-3	A8773	A8823	\$2.94
A8869	A8766		0-5	A8774	A8824	
A8870	A8767		0-10	A8775	A8825	
A8871	A8768	4.55	0-25	A8776	A8826	3.75
A8895	A8769	5.88	0-50	A8777	A8827	5.07
A8896	A8770	8.16	0-75			

A.C. MILLIAMMETERS

331	337	NET	M. A.	231	237	NET
A8805	A8812	\$4.41	0-10	A8841	A9062	\$3.60
A8806	A8813		0-15	A8842	A9063	
A8807	A8814	\$3.75	0-25	A8843	A9064	\$2.94
A8808	A8815		0-50	A8844	A9065	
A8809	A8816		0-100	A8845	A9066	
A8810	A8817	\$3.75	0-250	A8846	A9067	\$2.94
A8811	A8818		0-500	A8847	A9068	

BEEDE TEST PANEL METERS

D.C. MILLIAMMETERS MODEL 701



Highly accurate D'Arsonval type meters. Moving coil design. Accuracy within 2%. Have zero adjustment, sapphire bearings, aluminum pointers. Flush mounting, 3/4" diameter, in metal case. Highest quality instruments of dependable accuracy.

No.	M. A.	1st	NET
A2300	0-1	\$6.00	\$3.53
A2301	0-10	4.75	2.79
A2302	0-100	4.75	2.79
A2303	0-200	4.75	2.79
A2305	0-500	4.75	2.79
A2304	1-0-1	6.00	3.53

VOLT-OHM-MILLIAMMETERS

- A2315. MODEL 701.** Meter only. Reads 0-1 mils D.C., 0-50,000 ohms, 0-15-30-300 volts **\$3.53**
- A2317. MODEL 701.** Meter only. Reads 0-1 mils D.C., 0-2,000 ohms, 0-5-250-750 volts **\$3.53**

We can supply all Beede meters. Write for descriptive literature and prices which will be sent promptly.

TRIPLETT 7" ILLUMINATED

AC-DC FOUNDATION METER KIT



New foundation instruments with 25,000 ohms per volt D.C. sensitivity. Effective scale length, 6". Dial scale reads: 0-10-50-250-1,000 volts at 25,000 ohms per volt; 0-50-250 microamps per; 0-10-50-250 milliamperes; 0 to 500 ohms, backup circuit; 20,000-200,000-2 meg. resistance scale; 0-10-50-250-1,000 A.C. volts, at 1,000 ohms per volt. Build your test equipment around one of these meters. Illumination feature is supplied in 7" model only.

- A9110. Model 726. 7" Square.** Black dial scale with markings in color. **\$17.96**
NET.....

- Types below have white dial face.
A9111. Model 321. 3" Round. **NET..... \$ 9.80**
A9112. Model 426. 4" Square. **NET..... 10.95**
A9113. Model 521. 5" Round. **NET..... 11.44**

ESSENTIAL PARTS KITS

- A9114. AC-DC Control Box.** Assembled. Includes everything necessary to obtain readings above. In metal case. **NET..... \$15.36**
- A9115.** As above, but not assembled. Must be put together by builder. **NET..... \$10.95**

Precision FOUNDATION & PANEL METERS

KNIGHT-BEEDE FOUNDATION METERS



D.C. VOLT-OHM-MILLIAMMETER

These new Beede Foundation Meter Kits are ideal for building an efficient Volt-Ohm-Milliammeter at an attractively low price. An invaluable instrument. The black bakelite fan-type case is $4\frac{1}{2}$ " long and $3\frac{3}{4}$ " high and mounts in a $2\frac{3}{4}$ " diameter round hole. The large figures on the long $3\frac{3}{4}$ " scale are indicated by a special knife-edge pointer. Has D'Arsonval movement.



1000 OHMS PER VOLT

Uses a sensitive 0-1 MA movement, 50 ohms internal resistance. Scales are: 0-10-25-50-100-250-500 volts D.C.; 0-1,000 ohms—1 megohm; and 0-10-100 milliamperes D.C. These scales provide quick and accurate tuning. (See multiplier resistor kit and shunt resistors below.) **\$4.41**
A2330. NET.

MULTIPLIER RESISTOR KIT

Consists of high quality semi-precision resistors for use with the above meter to obtain the ohm and voltage readings. Resistors are accurate to within 5%. With diagram. **\$1.59**
A2331. NET.

SHUNT RESISTORS

A2370. To obtain reading of 0-10 M.A. on above meter.
A2373. To obtain reading of 0-100 M.A. on above meter.
NET, EACH **49c.**

5000 OHMS PER VOLT

An ideal instrument for use as a voltmeter where a meter sensitivity greater than 1,000 ohms per volt is required. Uses a 200 micro-ampere movement; internal resistance, 450 ohms. Scales are: 0-10-50-100-500-1,000 volts D.C., 0-1,000-100,000 ohms; 0-1-2 megohms; and 0-10-100 milliamperes, D.C. Use resistors and shunts below. **\$5.88**
A2332. NET.

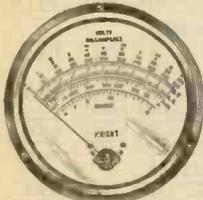
A2320. Multiplier resistor kit for use with 5,000 ohm per volt meter above. Accuracy is within 5%. NET **\$4.65**
A2321. Shunt resistors for obtaining M.A. ranges of meter above. NET **\$1.45**

20,000 OHMS PER VOLT

Uses a 50 microampere basic movement that will give you a sensitivity of 20,000 ohms per volt. Internal resistance is 1,575 ohms. Scales are: 0-10-50-100-500-1,000 volts D.C.; 0-1,000-100,000 ohms; 0-1-10 megohms, and 0-10-100 M.A. D.C. These ranges are obtained when the meter is used with the resistors and shunts listed below. With diagram. **\$10.58**
A2333. NET.

A2322. Multiplier resistor kit for use with 20,000 ohm per volt meter above. Accuracy is within 5%. NET **\$5.65**
A2323. Shunt resistors for obtaining M.A. ranges of meter above. NET **\$1.45**

KNIGHT GIANT 9" AC-DC FOUNDATION METER



Here is a laboratory type instrument ideally suited for the serviceman, experimenter, or amateur. Uses a large, highly accurate 9" meter with a sensitivity of 2,000 ohms per volt. Clearly marked scales can be easily read at a distance. Ranges of the instrument are as follows: 0-10-50-250-500-2,500 volts D.C.; 0-5-10-50-500 M.A. D.C.; 10 to +15 D.B.; 0-10-50-250-500-2,500 volts A.C.; 0-1,000; 0-10,000; 0-100,000 ohms; 0-1-10 megohms and 5 output ranges same as A.C. voltage scales. Separate chart permits reading from .0001 to 8 mfd. Wiring diagram is included with meter. Use Parts Kit, A2329 below (including rectifier, condensers, resistors, etc.) to make complete Giant Tester to obtain above readings. Shpg. wt. 5 lbs. **\$9.50**
A2318. NET.

A2329. Complete Parts Kit for above Meter. NET **\$8.50**

ACCESSORIES FOR METER

A2319. External Shunt. Permits increasing range of Giant Meter 0-10 amperes D.C. Indispensable for auto radio servicing. Shunt is wire-wound and held to close tolerance. NET **\$1.75**
A2316. Case for Meter. A sturdy, attractively finished metal case designed to house the Knight Giant Meter. NET **\$1.75**

The KNIGHT Giant Foundation Meter uses a new principle of motivation. Has new "Alnico" magnets and zero adjustment. A high-quality lab instrument in every detail.

AUDIO BEAT FREQUENCY OSCILLATOR KIT



This instrument is indispensable for providing overall fidelity checks on audio amplifiers and receivers, determination of modulation capabilities, checking for speaker rattle, etc. Covers from 20 to 15,000 cycles per second. Has sinusoidal wave form with maximum distortion under 2%. Output flat within 1.8 D.B. over entire range. Dial scale is 40" long and has accurate reset. Thorough shielding and proper placement of parts eliminates spurious beats. Parts are temperature stabilized. Calibration is permanent—no trimmers to adjust. The tuning-eye permits checking multiples of the power line frequency.

ESSENTIAL PARTS KIT

Contains a fixed and a variable frequency oscillator unit, a special filter, geared 385 mmf. variable condenser, a punched and drilled 7x9x2" chassis base, black crystalline-finished panel and cabinet, hardware, dial parts, miscellaneous assembly parts, etc. **\$9.38**
A8430. NET.

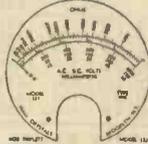
MISCELLANEOUS PARTS

A specially selected kit of matched parts consisting of fixed condensers, resistors, power transformer, sockets, etc. Includes 2-6J7, 2-6CS, 1-6T5 and 1-5Z4 tubes. **\$11.70**
A8431. NET.

WRITE FOR Descriptive Literature on above unit. Bulletin sent FREE on request.

METER DIAL SCALES

These scales are used to convert 0-1 M.A. meters into multimeters. They are reproductions of individual precision calibrations and are available in 4 types. Numerals and scales are clearly etched in black on a white and platinum Bristol board.



SCALE H1C

Upper scale has standard calibration in ohms for a $4\frac{1}{2}$ volt battery. Lower scale reads 0-50-250-1,000 M.A. D.C., and volts A.C. or D.C. **EACH 19c.**
A8435. For Triplett 321.
A8436. For Weston 301.
A8437. For Jewell 88.

SCALE H2C

Lower scale calibrated 0-50-250-1,000 volts and M.A. D.C. Upper scale has standard calibration in ohms plus a backup ohms scale. **EACH 19c.**
A8438. For Triplett 321.
A8439. For Weston 301.
A8440. For Jewell 88.

SCALE H3C

Upper scale has standard calibration in ohms for a $4\frac{1}{2}$ volt battery. Lower scale reads 0-50-250-1,000 M.A. and volts D.C. **EACH 19c.**
A8441. For Triplett 321.
A8442. For Weston 301.
A8443. For Jewell 88.

SCALE H4C

Lower scale reads 0-150-300-600 M.A. and volts D.C. Upper scale has standard calibration in ohms for a $4\frac{1}{2}$ volt battery. **EACH 19c.**
A8444. For Triplett 321.
A8445. For Weston 301.
A8446. For Jewell 88.

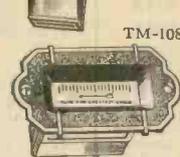
TUNING METERS



TM-121



TM-102



TM-108



TM-103

High resistance milliammeters for visual tuning of A. V. C. sets. Indicate exact tuning resonance. Model 121 is shadow tuning type. Other models use needle as indicator.

M.A.	TM-103	TM-102	TM-108	TM-121
0-5	A7475	A7480	A7485	A7490
0-7	A7476	A7481	A7486	A7491
0-10	A7477	A7482	A7487	A7492
0-15	A7478	A7483	A7488	A7493

Choice of any type above, less escutcheon. List, \$1.50. NET EACH **88c**

ESCUTCHEONS

A7495. For TM-108, 121
A7496. For TM-102, 103 EACH, **18c**

WESTON 301 PANEL METERS

These panel instruments are distinguished for their fine workmanship and dependable performance. They have well-damped D'Arsonval movements with an accuracy within 2%. Contained in $3\frac{1}{2}$ " round bakelite cases of the flush-mounting type.



D.C. MILLIAMMETERS

No.	M. A.	NET	No.	M. A.	NET
A1420	0-1	\$7.35	A1424	0-100	\$6.61
A1421	0-1.5	7.35	A1425	0-200	
A1422	0-10	6.61	A1426	0-300	
A1423	0-25	6.61	A1427	0-500	

PANEL LIGHT

Excellent for lighting panel-type meters. Requires single $\frac{1}{2}$ " mounting hole. Accommodates miniature base bulb. **29c.**
A9133. NET.



METER REPAIR SERVICE

Whether your meter is burned out or damaged mechanically, our meter service will put it back into good condition. Repairs are made by trained technicians and are calibrated against accurate standards. For prices on services not shown, send meter prepaid for inspection.



SERVICE A: For $3\frac{1}{2}$ " meters with burned-out or open armatures. We dismantle the entire moving element, revind or replace armature, replace and sharpen the pivots, and polish the jewels. If the armature has been burnt, new hair-springs are installed. The moving element is then reassembled and balanced, and the meter calibrated at three points. Scratched metal cases are carefully refinished. **\$3.75**
NET.

SERVICE B: For sluggish or erratic meters. Same as Service A except that armature and hair-springs are not replaced. **\$2.95**
NET.

SERVICE C: If glass is cracked, scratched or broken, we will replace it for an additional charge of **90c.**

SEND CASH WITH ORDER

Prices above cover only replacement parts specified in each service. Additional parts, such as pointers, springs, zero adjusters, case, etc., will be supplied at the lowest possible prices.

MODERNIZER ADAPTERS • TESTERS



SPEAKER-HEADPHONE MIKE & PHONO ADAPTERS

For speaker and headphone switching. Connects headphones to radio set; built-in switch cuts off speaker so that other persons in room will not be disturbed. Adapters supplied fit under power tubes. Very easily installed.

SINGLE	PUSH-PULL
A5537. 4 Prong. For self-biased tube.	A5541. 4 Prong.
A5538. 5 Prong.	A5542. 5 Prong.
A5539. 6 Prong.	A5543. 6 Prong.
A5540. 19 Tube.	A5504. 8 Prong.
A5544. 8 Prong.	NET
EACH... \$1.45	EACH... \$1.63

FOR MIKE & PHONO

A5505. 5 Prong.	NET EACH	54c.
A5506. 6 Prong.		
A5508. 7 Prong.		
A5509. 8 Prong.		

FOR EARPHONES

To connect headphones to any set. May also be used as extra speaker adapter.

A5294. 5 Prong. NET EACH... 44c.

A5295. 6 Prong. NET EACH... 44c.



UNIVERSAL ADAPTER

Brings out all tube terminals for quick easy connection. Does not disturb wiring.

A5510. 4 prong.	EACH	12c.
A5511. 5 prong.		
A5512. 7S prong.		
A5514. 8 prong.		

GRID CAP PHONO ADAPTER

Connects phonograph pickup to grid cap of tube. Has 2 contacts into which the phone tips of pickup are connected. For all pickups.

A5546. For Glass Tubes. NET EACH... 26c.

A5547. For Metal Tubes. NET EACH... 26c.

RCA PHONO ADAPTER

For connecting record player to any radio set. Switch changes from radio to phonograph quickly and conveniently. Consists of switch, shielded cable, terminal board, knob, mounting screws, etc.

A7594. NET... 59c.

GRID CAP ADAPTERS

A1672. Double clip for metal and glass tubes. Insulated in molded housing. YOUR PRICE... 10c.

A1673. Plugs into standard grid cap. Other ends fit small metal tube cap. YOUR PRICE... 8c.

A1684. Dual stud for control grid lead of analyzer plug. Metal and glass. YOUR PRICE... 6c.

A1685. Octal screw type. Replaces 1 of the large studs on plugs having 2. YOUR PRICE... 6c.

UNIVERSAL OUTPUT-METER ADAPTER

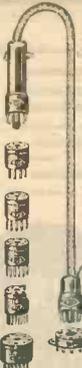
For making connections to meters, controls, etc., for test purposes. Pull out tube, slip adapter over proper prong, and replace the tube. 50' lead.

A1678. NET... 18c.

UNIVERSAL ADAPTER KIT

Can be used to make up any adapter required for test purposes. Contains one each: 4, 5, 6, 7, and 8 octal prong water separators and 12 contacts. In use, the separator needed is selected; then the correct number of contacts are inserted according to element of tube or circuit under test. Parts may be used over and over again. Complete in leatherette case. Shpg. wt., 1 lb.

A1679. NET... 44c.



BUD ANALYZER PLUG AND ADAPTERS

This molded bakelite analyzer plug with its small-base adapter kit makes it possible for you to bring your present analyzer up-to-date. Consists of: 8 prong plug; cable plug and socket; 8 wire cable; dual grid stud; and 5 adapters.

A1659. \$5.40 NET...

A1650. Analyzer plug only. Small 8 prong octal base plug which plugs into adapters. Has dual grid studs \$1.03 NET...

A1651. Analyzer plug, as described above, with 5 feet of 9 wire cable attached and an 8 prong panel plug. NET... \$2.94

ADAPTERS ONLY

No.	Prongs	NET EACH
A1652	8 to 4	58c.
A1653	8 to 6	
A1655	8 to 6	
A1656	8 to 7M	
A1657	8 to 7S	
A1658	8 to Local. NET...	73c
A1660	8 to Bantam Jr. NET...	73c

ALDEN TUBE LEAKAGE AND SHORT TESTER



For 4, 5, 6 and 7 prong tubes. Will indicate any leakage as high as 1 megohm. Operates from A.C. line. Has jacks for using as a continuity tester. With neon lamp, grid lead, cord and plug. Wt. 2 lbs.

A1675. NET... \$2.06

ALDEN METAL TUBE TEST ADAPTER



For use with any tube checker. Plugs into 36 socket. 3 octal sockets on adapter accommodate all metal tube types. 2 toggle switches are provided for thorough tests including both plates of double-plate tubes. Wt. 2 lbs.

A1674. \$3.82 NET...

HIGH IMPEDANCE PHONO PICKUP ADAPTERS



These adapters make it possible to connect a phono pickup to any set without making circuit changes. Will not disturb operation of set. Adapters connect into control grid to ground circuit of detector or to first A. F. amplifier. With shielded cable and change-over switch.

A4925. 5 Prong Adapter. For insertion under any 5 prong detector or first audio tube such as 27, 56, 37, etc.

A4926. Octal Base Adapter. For insertion under any detector or first audio amplifier tube with octal base such as 6B8, 6CS, 6F6, etc.

A4927. Grid Cap Adapter. For use in control circuit of tubes having top cap. NET EACH... 95c.

WIRED LOCAL ADAPTER SET



5 adapters are required for testing the new Local tubes. This set of adapters permits testing these new type tubes in any type of tube tester, factory or custom-built, and either of the dynamic, emission, or direct-reading types. Socket tops are color-coded black, blue, green, yellow, and gray for identification purposes. Bottom octal plugs are all black. The set is supplied with complete instructions.

A4617. NET PRICE... \$2.75

AMPHENOL UNIVERSAL ADAPTER FORMS



A new type of adapter. The top consists of a standard bakelite socket. Any top and any bottom together with A1715 adapter shell will make the adapter you need. The adapter shell is brass, finished in black. It is 1 1/4" long. Both the top socket and bottom plug may be easily snapped into shell adapter after wiring.

SOCKET (Top)		EACH
A4532. 4 Holes.	}	6 1/2 c
A4533. 5 Holes.		
A4534. 6 Holes.		
A4535. 7S.		
A4538. 8 Octal.		
A4615. Local.	}	10 1/2 c
A4616. Hytron 5-6 prong for Bantam Jr. tubes. With shell.		

PLUG (Bottom)		EACH
A1710. 4 Prong.	}	6 1/2 c
A1711. 5 Prong.		
A1712. 6 Prong.		
A1713. 7S.		
A1714. 8 Octal.		
A1715. Adapter Shell.	}	9c

MODERNIZING AND TUBE TESTING ADAPTERS

Cash in on set-modernization. Use these adapters to replace tube types listed below. The new glass and metal tubes now available will increase set sensitivity, power, and stability. These adapters may also be used to modernize old style testing equipment. The wiring of your present tube tester or analyzer need not be disturbed.



No.	Test or Replace	In Socket
A1728	25Z6	25Z5
A1735	6F5	75 (Triode)
A1727	6X5	84, 6Z4
A1730	6J7	77, 6C6
	6K7	78, 6D6
	6F6, 6L6	41, 42
	6K6	41, 42
A1686	25A6	43
A1687	6F5*	75, 85
A1682	6H6*	75, 85
A1677	6C5	37, 76
A1677	5Z4, 5W4, 5Y3	80
A1680	6K7, 6J7, 6F6	78, 77, 42
	6L6, 6Q7, 6R7	42, 75, 85
	25A6, 6B5	43, 6N6
A1739	57, 58, 77, 78	25, 35, 37, 39
A1740	47	45
A1743	59	45
A1744	2A5	45
A1745	59	47
A1746	2A5	47
A1755	UX201A	UV201A

*For testing only. YOUR CHOICE OF ANY OF ABOVE ADAPTERS, EACH... 38c.

AMPHENOL COMPACT ADAPTER FORMS

Unwired adapter forms. Smaller than Universal type. Black bottoms have 1/4" hole for bringing out leads where needed. Tops available in black, red, green, blue, gray, or yellow. Specify color of tops when ordering these adapter forms.



Holes or Prongs	Socket Top	BOTTOM PLUG	
		Less Stud	With Stud
4	A1716	A1722	A1784
5	A1717	A1723	A1785
6	A1718	A1724	A1786
7	A1719	A1725	A1787
8	A1720	A1726	A1788
Local	A1721		
NET EACH...		EACH 12c.	EACH 18c.

ANALYZER ADAPTERS

Designed for use with analyzers. Adapters are wired straight through, 1 to 1, 2 to 2, etc.

A1796. 6 to Local. NET EACH... 73c.

A1797. 7 to Local. NET EACH... 73c.

A1658. 8 to Local. NET EACH... 73c.

COMBINATION SOCKET AND BULB TESTER

Combination 7 contact socket with a large center contact for testing pilot lights, flashlight bulbs, etc. NET... 26c.

NEUTRALIZING TOOLS • TEST LEADS

ALIGNING AND NEUTRALIZING TOOLS

A5534. Flexible Shaft Tuning Wand. For checking alignment of radio sets without disturbing adjustment of the trimmers. Shaft is of flexible catgut; brass cylinder at one end, fine iron core at other. **NET 59c**

A5573. Solid Shaft Tuning Wand. With solid bakelite shaft. **NET 49c**

Non-Metallic Adjustable Neutralizing Tool. Made of Fenoline—no metal parts. Screwdriver at one end and hex socket at other. Fully shock-proof. **A5580. Extends 6' to 11'. NET 34c**
A5581. Extends 10' to 18'. NET 49c

A5584. Narrow Shaft Alignment Tool. Ideal for crowded quarters. Consists of socket wrench and screwdriver on bakelite shaft. $\frac{7}{16}$ " in diameter. 5' long. **NET 28c**

A5483. Non-Metallic Screwdriver. Made of $\frac{3}{16}$ " bakelite rod with sturdy blade. For neutralizing and adjusting condensers, etc. 6' long. **NET 25c**

A5484. Double-Edged Screwdriver. Made of durable $\frac{1}{4}$ " bakelite rod with blades at both ends. 7' long. **NET 21c**

A5503. Insulated Screwdriver. Completely insulated. $5\frac{1}{2}$ " long. Narrow $\frac{3}{16}$ " diameter permits use in tight places. **NET 18c**

Set Trimmers for Philco, Zenith, RCA. Designed for alignment of the small-space coil and trimmer assemblies used on new All-Wave sets. Screwdriver has a diameter of $\frac{7}{16}$ " so that it will easily pass through a $\frac{1}{4}$ " hole. Other end has socket head for $\frac{3}{16}$ " hex nut. **A5535. 6" Trimmer. NET 42c**
A5536. 10" Trimmer. NET 57c

A5502. Alignment Wrench for Philco and RCA. A new aligning tool for neutralizing and adjusting the air trimmers of all RCA, Philco, and similar sets. Consists of a $\frac{3}{8}$ " dia. Fenoline rod, $8\frac{1}{2}$ " long. Has hollow shaft hex-agon wrench at one end, shaped hook at other end. **NET 73c**

Insulated Hex Wrench. Hex broaching runs entire length of wrench. End may be cut off when worn. Fibre rod. Fits $\frac{1}{4}$ " nut. **A5473. 5 $\frac{1}{2}$ " INCH. 12c** | **A5474. 8" INCH. 15c**

A5528. Metal Nib Neutralizing Tool. Two valuable tools. One is a $6 \times \frac{3}{4}$ " tube, on each end of which are heavy brass nickel-plated socket wrenches for $\frac{3}{16}$ " and $\frac{1}{4}$ " hex. nuts. The other tool fits into the tube tool. Has screwdriver blade at one end; other end is of magnetic steel. **NET 59c**

A6657. Push-Button Aligner Tool. Designed for trimming and adjusting all Push-Button Tuners. Fenoline ribbed handle with $4\frac{1}{2}$ " long shank. The socket is $\frac{7}{16}$ " diameter; contains a small recessed screwdriver blade. **NET 29c**

A6658. Low "C" Aligner. Made of unbreakable bone fibre $\frac{1}{2}$ " in diameter. One end has screwdriver for adjusting trimmer and padding condensers; the other end has a recessed screwdriver for adjusting permeability tuned circuits. **NET 29c**

NEUTRALIZING & ALIGNING KITS DE LUXE MODEL

A tool for every receiver. 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; $\frac{3}{16}$ " and $\frac{1}{4}$ " nut wrench; $\frac{1}{4}$ " insulated square nut wrench; $\frac{1}{4}$ " hex metal side wrench; $2\frac{1}{2}$ " insulated screwdriver with metal nib; $\frac{1}{4}$ " hex slotted insulated wrench screwdriver, $\frac{3}{16}$ " hex insulated nut wrench; 5" and 6" insulated screwdrivers. Supplied with leatherette case. **\$2.94**

A5529. NET 2.94
STANDARD MODEL KIT
Similar to the "De Luxe" set above but less the flexible screwdriver and "magic" aligning tool. With handy case. **A5532. NET 2.30**

ALL-PURPOSE TEST KIT

Kit contains one pair of test leads 60 inches long, one red and one black, of kinkless live rubber wire. One end has insulated phone tip, and the other end has insulated banana prod handle. Fittings are all of the plug-on type, making the test leads universal in application. Also included are: 1 pair insulated alligator clips—one red and one black; 1 pair insulated spade plugs—one red and one black, and 1 pair insulated needle points—one red and one black. With handy carrying case. **A5550. NET 1.32**

5-IN-1 ALIGNMENT TOOL
A handy alignment tool kit that will serve innumerable uses. Consists of $\frac{1}{4}$ " and $\frac{3}{16}$ " nut wrenches, miniature blade screwdriver, and a full-size screwdriver with pocket clips. **A5527. YOUR PRICE 59c**

4-IN-1 ALIGNMENT TOOL
Combines in one fountain pen size tool 4 Serviceman's necessities— $\frac{1}{4}$ " and $\frac{3}{16}$ " nut wrenches, neutralizing screwdriver and key slot grip. Insulated handle with pocket clip. 6" long. **A5523. NET 28c**
A5524. Crosley attachment. EACH 10c
A5525. Majestic attachment. EACH 10c

A5526. Balancing Attachment. May be screwed into 4-in-1 above. $2\frac{1}{2}$ " long. Ideal for close quarters. Offset $\frac{1}{4}$ " hex. socket; steel screwdriver. **NET 23c**

FUSED TEST LEAD SET

Protect your instruments with fused test leads. Fuses cost less to replace than meters. Standard fuses can be inserted into the barrel of each prod. Interchange fuses for different meters. Complete with interchangeable Alligator Clips, Spade Lugs, and Phone Tips all of which fit on to the Banana Plugs. **A5468. NET 1.40**

SHORT TESTER

Has $2\frac{1}{2}$ volt lamp and battery for checking continuity. May also be used as trouble light or with a neon lamp for testing voltages, frequencies, etc. **A6662. NET 88c**

TEST LEADS AND KITS

HEAVY-DUTY LAB MODEL PRODS

All-purpose leads for test work. Flexible, rubber-covered kinkless wire fitted into heavy $\frac{3}{4}$ " handles, one red and one black. Handles $5\frac{1}{2}$ " long have pointed tips. Leads are 50' long. Popular high quality test prods that are used by leading servicemen everywhere. **A5490. Phone Tips. A5491. Spade Tips. A5492. Alligator Terminals. PER PAIR 42c**

SERVICE TEST LEADS

Very popular low-priced test leads having a wide variety of service uses. Flexible braided wire leads with phone tips fitted into insulated handles, $2\frac{1}{2}$ " inches long. Leads are 36 inches long. One handle black, the other red. **A5493. Phone Tips. A5494. Spade Tips. PER PAIR 22c**

NEEDLE-POINT LEADS

High-quality test leads equipped with needle points for making good contact through insulation or pitch. 4" handles, $\frac{3}{8}$ " thick. With 50' kinkless wire leads. **A5496. Phone Tips. A5497. Spade Tips. PER PAIR 27c**
A5498. Alligator Terminals. PER PAIR 34c

PENCIL TYPE PRODS

High-grade Weston type leads for all test equipment. 5" handles of insulating material, with flexible rubber wire. Sharp-pointed tip is threaded and screws into handle. Moulded grips with phone tips have set screws for easy removal of wire. Combined length of leads and handles is 65". Properly soldered connections and good quality. **A5530. NET 71c**

PHONE TIP PLUGS ONLY

A6668. Fenoline insulated, one red, one black. With nuts and bolts. NET. PER PAIR 25c

ALL-PURPOSE TEST PROD KIT

Made of sturdy Fenoline. Handles are 6" long and $\frac{1}{4}$ " diameter. Have 5 foot kinkless red and black wires. One end equipped with needle-point phone tips. Other 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. **A6650. NET 67c**

A6651. With Fixed End Phone Tips. As above, but less interchangeable feature. NET 35c

A6652. With Fixed End Alligator Clips. As above, but without the interchangeable feature. NET 44c

UNBREAKABLE TEST PRODS

Prods are nickel-plated brass, covered with red and black shockproof live rubber sleeves. Supplied with 50' kinkless rubber wire. **A6653. With Phone Tips. NET 36c**
A6654. With Insulated Phone Tips. NET 42c



BOOKS for every Service Need

ALLIED PUBLICATIONS

The following ALLIED publications are the first in a series which will cover various important aspects of radio. These books are packed with material of great practical value and have proved to be widely popular.



BUILDERS' HANDBOOK

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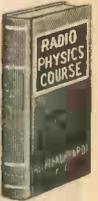
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A8930. Connector for all 45 volt batteries. EACH 3/4c
A8931. Connector for 22½ volt batteries. EACH 3/4c
A8932. Connector for 4½ volt batteries. EACH 3/4c
 *Not available with Plug-in feature.

BURGESS PLUG-IN "B" AND "C" PACKS

FOR PHILCO 33, 38, 38A, 623 AND 643

A10042	F90-D6	135	39½	1	\$7.25	\$5.15	\$5.15
A10027	*G90-D6	135	44½	1	7.50	5.44	5.44

FOR PHILCO 34, 34A, 39, 39A

A10028	G90-D8	135	45	1	7.50	5.44	5.44
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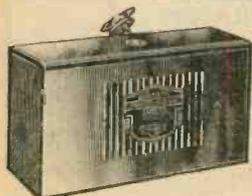
*1000 hours of service at 11 M.A.

DRY CELL "A" BATTERIES

Cat. No.	Factory No.	Volts	Shpg. Wgt.	Unit Pkg.	List Price	Single Net Price	Unit Pkg. Net Price
A8911	4FA	1½	1½ lb.	20	\$0.45	\$0.33	\$0.30
A8912	4A	1½	11 oz.	6	.68	.49	.45
A8918	4FH	1½	2 lb.	20	.38	.29	.26
A8919	4F4H	6	7 lb.	6	1.95	1.46	1.33

TUBULAR FLASHLIGHT UNI-CELLS

A8913, No. 1. 1½ volts. Sizes: 1½x1 in. Baby type. A8914, No. 2. 1½ volts. Size: 2½x1½". Standard type. List. 10c. NET EACH 6½



BURGESS 3 VOLT DRY "A" PACKS

TYPE 20F2. A 100% dry "A" battery for use with 2 volt battery radio sets. Provides minimum of 400 hours' service at ½ ampere discharge for 3 hours daily. Equipped with plug terminals. 11½x4x½". 14 lbs. **A10020. NET. \$2.35**

TYPE 40F2. Similar to above but heavy-duty type 3 volt dry "A" battery built to give at least 900 hours' service at ½ ampere drain 6 hours daily. Shpg. wt., 30 lbs. **A10019. NET. \$4.76**

A8933. Reducing Resistor. For either of above batteries used with 2-volt sets having no voltage regulating device. NET. 25c

KNIGHT PLUG-IN "B" BATTERIES

A first quality line of unusually well-built batteries, manufactured exclusively for ALLIED and sold solely under the KNIGHT name. 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 perfectly climate-proof and are designed for long and full life of service. For maximum battery value—buy KNIGHT. Our quick turnover assures you of constantly fresh stocks of all KNIGHT battery types. Our remarkably low prices assure you of bigger savings and bigger profits every time you buy a supply.



Catalog No.	Type	Volts	Size	Shipping Weight	NET EACH
A8920	Standard	45	7¼x6 x3"	10 lbs.	\$0.94
A8921	Heavy-Duty	45	6¼x7¼x4"	12 lbs.	1.28
A8923	"B" & "C"	22½	4 x2½x2¼"	2 lbs.	.61
A8924	"C"	4½	4 x3 x1¼"	1 lb.	.24

Connector plugs are not included. They are supplied as follows:
A8930. For Knight Standard or Heavy-Duty 45 V. "B". EA... 3/4c
A8931. For Knight 22½ Volt "B" and "C". EACH 3/4c
A8932. For Knight 4½ Volt "C". EACH 3/4c

NO. 6 1½ VOLT DRY CELLS

A standard 1½ volt dry-cell for use on buzzers, doorbells, etc. Packed with power. Recovers quickly after heavy drain. 6x2½". Shpg. wt., 2 lbs. A fine value. Carry a stock of these fine batteries. **A8925. YOUR PRICE. 21c**

TUBULAR FLASHLIGHT CELLS

A8926, No. 1 Unit Cell. 1" dia., 1½" long. For small flashlights. **A8927, No. 2** Unit Cell. 1½" dia., 2½" long. For standard flashlights. NET EACH 4c 10 FOR 35c

KNIGHT "HOT SHOT" TYPE

Newly developed compact 6 volt batteries providing the full electrical equivalent of No. 6 cells in less than half the space. Built for efficient, long-life service and supplied in moisture-resistant metal cases. Size: 10½x2½x6". Shpg. wt., 7 lbs. **A8940. NET. \$1.21**



GENERAL MIDGET PORTABLE "A" AND "B" BATTERIES

Extremely small, light-weight portable batteries. For use in portable radio receivers and transmitters, transceivers, monitors, hearing aids, weather balloons, pocket radio sets, etc. All General batteries are built of finest quality materials and are conservatively rated. The approximate rating of A8935 is 190 MA hours; A8936 is 400 MA hours; A8937 is 1000 MA hours; A8939 is 8 ampere hours; A8938 is 15 ampere hours. A8936 and A8937 are plug-in types. All others have Fahenstock clips.



NO.	Volts	Lgth.	Width	Ht.	Wt.	List	NET
A8935	45	3"	1¼"	4¼"	11 oz.	\$3.00	\$2.00
A8936	45	3"	2¼"	4¼"	22 oz.	1.50	1.05
A8937	45	4¼"	2¼"	5½"	50 oz.	1.50	1.05
A8938	3	3½"	1¼"	4½"	20 oz.	.60	.40
A8939	3	2¾"	1¾"	4¼"	16 oz.	.60	.40

EVEREADY AIR CELL "A" BATTERIES

For 2 Volts. Especially designed for use with the 2 volt "Air-Cell" battery radios. Now offered at new low prices giving even greater economy. Provide convenient, long-life operation—no recharging necessary. In leak-proof cases, 10¼x6½x9¾". Shpg. wt., 24 lbs., except A10035 which is 14 lbs. (Not mailable.)

A10025. Model A2600. For sets with maximum current drain of 660 M.A. Delivers 1000 hours of steady 2 volt current. NET \$4.62. Less 2% **\$4.51**

A10026. MODEL SA2600. For heavy-duty use with sets having maximum drain of 750 M.A. Will give long service. NET \$5.51. Less 2% **\$5.40**

A10035. MODEL A2300. A new economy model giving 500 hours of service. An exceptional value at this low price. NET \$2.98. Less 2% **\$2.92**

For 1.4 Volt Receivers. **MODEL A-1300.** A brand new "Air-Cell" "A" battery for receivers using the new 1.4 volt tubes. Delivers 1500 hours of service on sets drawing 200 M.A. Assures fullest economy to 1.4 volt set owners. Shpg. wt., 8 lbs. **A10036. NET \$1.72. Less 2% \$1.69**



BURGESS PLUG-IN BATTERIES

RAY-O-VAC



"A" PACKS



COMPLETE "A & B" PACKS



"B" PACKS



REPLACEMENT PLUG-IN BATTERIES FOR ALL PORTABLE SETS

ALLIED makes it easy for you to buy replacement plug-in batteries for any 1.4 Volt Portable Battery Set made. The listing below covers the battery requirements for all popular portables made, including Knight, R.C.A., Philco, Zenith, Airline, Crosley, Emerson, Silvertone, and all the others. Simply note the brand name and type numbers on the original batteries in your set and refer to the listing below for replacements. All battery types listed on the same line are identical and interchangeable. For example, A8970 is identical with A9750 or A9780 and will replace Eveready battery 742 or Philco type P94.

These Burgess, General, and Ray-O-Vac batteries are built in accordance with specifications of the battery set manufacturers and will match, or in most cases surpass, the original batteries in efficiency and long life. ALLIED'S tremendous volume of sales and quick turn-over assure you of fresh batteries always. These exact replacements are equipped with correct receptacle to match set plug. ALLIED is prepared to supply all types of plug-in batteries as quickly as they are announced. If the battery you need is not listed below, give us type number and an exact replacement will be shipped promptly.

BURGESS BATTERIES			RAY-O-VAC BATTERIES			GENERAL BATTERIES			WILL REPLACE	
Stock No.	Type	NET	Stock No.	Type	NET	Stock No.	Type	NET	EVEREADY	PHILCO
PORTABLE "A" BATTERIES										
A8970	4F	50.39	A9750	P94A	50.39	A9780	4F1	\$0.35	742	P94
A8968	4FL**	.54	A9751	P94L	.39	A9781	3L1	.39		
A8969	6F	.57	A9752	P96A	.57	A9782	6F1	.39	743	
A8973	8F	.73	A9752	P96A	.57	A9783	8F1	.63	741	
A8974	F4PI	.42	A9754	P694A	.39	A9784	4F4	.39		
A8975	F4PIX	.42								
A8976	2F4	.77	A9755	P698A	.73	A9785	8F4	.68	718	
A8977	FX*	.14								
A8989	2F	.39				A9786	2F1	.24		
A8990	3G	.50								
A8971	16G	1.52	A9756	P168A	1.36					P816
A8972	20F	1.41	A9757	P9203	1.36	A9787	12L1S	1.36	740	
A8991	19G	1.52								

PORTABLE "B" BATTERIES										
A9177	B30	\$1.16	A9760	P5303	\$1.12	A8937	V30B	\$1.05	762	P305
A9178	A30	1.16	A9761	430P	1.03	A9788	V30A	1.05		
A9179	Z30	1.36	A9762	P7R30	1.03	A8936	V30AA	1.05	738	
A9180	W30PI	1.60	A9763	P3A30	1.03	A9789	V30AAA	1.05	733	
A9181	A30X	1.16	A9764	BB30P	1.03	A9790	F30A	1.05	727	
A9182	A60	2.31	A9765	BB60P	2.06					
A9183	W40*	1.82				A9791	34AAAG	1.29		
A9184	W34	1.66				A9792	20AAAG	.85		
A9185	W20PI	1.08							749	P602
A9186	D60	2.38	A9766	P260	2.43					

PORTABLE "A" AND "B" COMBINATION PACKS										
A10001	5DA60	\$2.36				A10049	60A2L	\$2.36		
A10002	6TA60	2.45				A10030	60A4L	2.45		
A10003	4TA60	2.45								
A10004	2FA60	2.77								
A10005	C2A28†	1.46				A10031	60DL1L	3.55	748	BB30-12P
A10023	17GD60	3.55	A9772	AB82	53.45	A10032	41A4FL	1.85		P60-DL-12L 41A4FL

REPLACEMENT ADAPTER PLUGS

A9126	2 Prong "A"	NET EACH 5¢
A9127	3 Prong B	
A9128	4 Prong A & B	
A9129	2 Prong 6 V. A	
A9130	4 Prong 6 V. A & 90 V. B	

* Use one of each for Majestic "Camera Type" portables.
** For Belmont 407 and Delco 1401 and 1402.
† For Philco "Mystery" control.

COMBINATION BURGESS KITS

A9131	No. 430 Kit, 1-4F and 2-B30	NET	\$2.45
A9132	No. 830 Kit, 1-8F and 2-B30	NET	\$2.77

BURGESS ELECTRIC SHAVER BATTERIES



Now you can use your Electric Shaver wherever you go, even though 110 volt current is not available. This convenient Burgess battery is designed to operate any 110 volt shaver just as efficiently as regular power line current. When you travel, go on hunting or fishing trips, or go anywhere that 110 volt current is not available, be sure to carry one of these batteries along. For use with Schick, Packard, Sunbeam, and all other types of shavers. Ideal for shaving in trailers or cars. Battery has standard A.C. female socket. Two sizes are available, both are compact, but type W90PI is a real midget in size.

A8995, Type Z90PI, Heavy-duty type, \$3.32
Size: 3 1/4" x 3 3/4" x 5 1/4". Shpg. wt., 5 lbs. NET.

A8996, Type W90PI, Size: 2 1/4" x 3 1/4" x 9 1/4". \$3.75
x 9 1/4". Shpg. wt., 2 1/2 lbs. NET.



RAY-O-VAC CHROME-PLATED FLASHLIGHT

A new kind of flashlight—pre-focused for a perfect round spot, sharp and bright. Built on new precision principle with fewer parts; head is drawn directly from the barrel. Has lock-type and push-button switches. Beautiful chrome-plated brass case. Individually packed in gift box. Requires 2 No. 2 cells. (Less cells.)

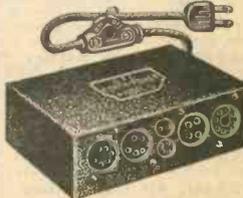
A9775, NET PRICE

61¢

SENSATIONAL NEW PORTA-POWER!

ADAPTS PORTABLE RADIOS FOR 110 VOLTS A.C. OPERATION

Here's a newly developed power unit that will double the utility of any 1.4 volt portable battery radio. Porta-Power unit enables you to operate any 1.4 volt battery set directly from 110 volt A.C. It's as easy to connect as the batteries in the set. When a portable set is to be used in the home for a long period of time, save your battery; plug in Porta-Power, and operate your set from A.C. When portability is again desired, you can remove the unit and replace the battery in a jiffy. Porta-Power fits the battery compartment of 99% of the portable sets on the market; convenient mounting flanges permit permanent installation when desired. Unit costs less than 5¢ per hundred hours to operate. Equipped with composite sockets for all types of plugs used with portable sets; also accommodates octal plug of Zenith portable. Ideal for servicemen when testing portable sets; saves on battery costs. Built into a black wrinkle-finished metal case measuring only 3 1/2" x 6" x 2". Supplied complete with plug, cord, and cord switch. Shpg. wt., 5 lbs.



A9168, NET

Dealers: Don't waste batteries demonstrating portable sets. Save money with Porta-Power! Servicemen: Use Porta-Power for testing and repairing portable sets!

\$4.41

BATTERIES • BATTERY CHARGERS

KNIGHT LONG-LIFE STORAGE BATTERIES



KNIGHT 2 VOLT

A Heavy-Duty battery giving 300 operating hours at 1/2 ampere intermittent rate, without recharging. Rated at 150 Ampere hours at Radio rate. Size, 4 1/4" x 7 1/4" x 8 1/4". For sets using 1 1/2 or 2 volt tubes. With convenient handle.

Terminals are clearly marked for polarity.

A10456, 21 PLATE. Not mailable. Shipped express or by freight. Shpg. wt., 21 lbs. **NET \$3.29**

A10455, 13 PLATE. Light-duty type. 100 ampere hours. 115 hours intermittent rate. Size, 3 1/4" x 7 1/4" x 8 1/4". Not mailable. Shipped by express or freight. Shpg. wt., 16 lbs. **NET \$2.55**



6 VOLT

Heavy-duty, solidly constructed, leak-proof batteries that deliver maximum power. Thick plates, carefully sealed cells. With radio terminals. Not mailable. Shipped by express or freight.

A10457, 13 PLATE. 95 Ampere Hours. Size, 9 1/2" x 7 1/4" x 8 1/4". Wt., 40 lbs. **NET \$4.75**

A10458, 15 PLATE. 121 Ampere Hours. Size, 9 1/2" x 7 1/4" x 8 1/4". Wt., 42 lbs. **NET \$5.95**

A10459, 19 PLATE. 155 Ampere Hours. Size, 11 1/4" x 7 1/4" x 8 1/4". Shpg. wt., 53 lbs. Brute-force, heavy-duty type. **NET \$7.49**

6 VOLT HEAVY-DUTY

Husky, giant-size 6 volt storage batteries for use with radio or farm lighting plants. Ideal for use with windcharger or gas-engine plants. Will operate 5-15 watt or 2-25 and 2-15 watt lamps intermittently for approximately 11 hours before requiring recharge. With handle.

A10460. Rated at 150 ampere hours. Size: 13 x 7 x 8 1/4". Shpg. wt., 58 lbs. Shipped by express or freight. 21 Plate. **NET \$8.45**

A10461. Rated at 180 ampere hours. Size: 14 1/2 x 7 1/4 x 8 1/4". Shpg. wt., 70 lbs. Shipped by express or freight. 25 Plate. **NET \$11.85**



"A", "B" & PORTABLE BATTERY TESTERS

Inexpensive, portable type battery testers. Will test "B" Batteries, Dry Cells, Storage Batteries, etc. Air Cell tester indicates condition of Air Cell Batteries as "Good" or "Bad"; also aids in determining future life of battery. A real necessity for every serviceman now that so many battery sets, both home and portable, are in use.

A6260, Storage Battery Tester. Tells condition of battery. **NET \$9.**

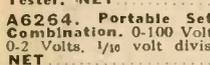
A6261, 0-35 Amps. For testing dry cells. **NET \$4.50**

A6262, 0-50 Volts. For "B" Batteries. **NET \$4.50**

A6263, Combination 0-40 Amp. and 0-50 Volts. **NET \$6.80**

A7340, Air Cell Battery Tester. **NET \$1.50**

A6264, Portable Set Battery Tester. Combination. 0-100 Volts, 5 volt divisions; 0-2 Volts, 1/10 volt divisions. **NET \$1.32**



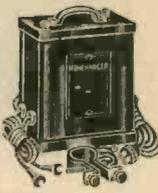
LEADER HYDROMETER

Accurate, well-made hydrometer for testing storage batteries. Has beaded float. Bulb is of live, resilient rubber. Shpg. wt., 1 lb. **A3971. NET \$2.40**

POPULAR HOMCHARGERS

5-3 AMP. TYPE

A 5 to 3 amp. tapering battery charger for auto or home use. Has steering post connector for mounting on car. No radio interference. Also ideal for mounting in your garage. Will keep your battery in shape at all times. For 110 Volts 50-60 cycles. Shpg. wt., 8 lbs. **A10040. NET \$4.41**



6 AMP. TYPE

Vibrator-type. For 6 volt storage batteries. Self-polarizing; entirely automatic in operation. Works from 110 V. 60 cycles A.C. With cord, plug, car clamp, and cables. Shpg. wt., 11 lbs. A dependable unit for trouble-free service **A10041. NET \$7.35**



HI-RATE TYPE

Provides a fast, 10 ampere charge. Has automatic tapering feature. Complete with ammeter, 10 ft. cables, and dash receptacle. For 110 Volt, 60 cycle A.C. Shpg. wt., 15 lbs. **A10037. NET \$11.47**



GENUINE G. E. TUNGAR TYPE

High-grade 5 amp. unit for charging any 6 volt storage battery from 110 V. 50/60 cycle A.C. line. Famous General Electric quality construction. Delivers full 5 ampere charge to keep battery fully charged; automatic tapering feature prevents overcharging. Assures long battery life and freedom from run-down battery troubles. Supplied with steering post attachment, A.C. cord, charger cord, tungar bulb, and full instructions. For 110 Volts, 50/60 cycle A.C. Shpg. wt., 12 lbs. One of the finest chargers made. **A10043. NET \$10.88**



STANCOR POWER PACKS



Ideal for auto and battery radio sales demonstration and for service test work. Eliminates need for batteries. Delivers filtered, metered D.C. output from 110 Volt 60 cycle A.C. A circuit breaker and fuse in each pack prevents damage by overloading. Scientifically designed to give efficient service.

A10145, Junior Model. Delivers 5 amps. 5-7 1/2 volts, D.C. With meter, 25 lbs. **NET \$16.61**

A10146, Standard Model. Delivers 12 1/2 amps. at 5-7 1/2 volts, D.C. With meter, etc. 30 lbs. **NET \$19.55**

A10147, DeLuxe Model. Delivers 15 amps. at 2-8 volts, D.C. 31 lbs. **NET \$25.97**

A10148, 6 Volt Model. For Philco, RCA, Audiol, Zenith, Erla 6 Volt farm sets. 9 lbs. **NET \$14.70**



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 injure batteries. Saves time and expense of hauling batteries to town. **A2266. Lst., \$2.50. NET \$1.47**

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. Will supply up to 100 M.A. Models 551 and 552 are self-rectifying; tube rectifier is supplied with models 553 and 554. Less Filter. *Special dual packs for high output. VP-555 supplies 200 M.A. VP-557 supplies 150 M.A. VP-G556 operates on 12.6 volts @ 100 M.A. VP-F558 operates on 32 volts @ 100 M.A. The 754-1 Relay is designed for controlling any single unit Vibrapack. Operates on 6 Volts. Use 3 cells (6 V.) if used with 12 or 32 V. batteries. Wt., 10 lbs.



Cat. No.	Mfr. Type	Output Voltage	NET EACH
A11996	VP-551	125-150-175-200	\$ 8.82
A11997	VP-552	225-250-275-300	10.88
A11998	VP-553	125-150-175-200	9.70
A11999	VP-554	225-250-275-300	11.76
A12001	VP-555	300	22.05
A12002	VP-557	400	22.05
A12000	VP-G556	225-250-275-300	11.76
A12003	VP-F558	225-250-275-300	11.76
A12004	754-1	Relay for Vibrapacks	5.50

MALLORY CHARGERS

A beautiful black wrinkle-finished unit with chromium-plated handle. The meter on the front panel indicates battery is being charged. Output, 6 to 3 amps. Special oversize transformer provides taper charging. Operates automatically regardless of the battery's condition — cannot injure battery. 9 amp. fuse mounted externally. Is easy to change. 7 1/4" x 4 1/4" x 4 1/4". Shpg. wt., 9 1/2 lbs. Operates on 110-115 V., 50-60 cycles. **A11994. No. 5535A. NET \$7.52**



No. 3C BATTERY BOOSTER

Designed to meet the need of present day car owners. 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. Special transformer regulates output to take care of variations in battery condition and line voltage. 5 1/4" x 3 1/4" x 3 1/4". Shpg. wt., 5 lbs. For 110-115 V., 50-60 cycles. **A11995. NET \$5.19**

RADIART PAK FOR ELECTRIC SHAVERS

Double the utility of your Electric Shaver! Shaver-Pak operates your 110 Volt Shaver from any 6 volt or 32 volt source. For use in cars, trailers, boats, trains, or rural areas. Shpg. wt., 5 lbs.

A9158, Type 5-6a. Portable. For 6 volts. With 2 1/2 ft. cord and plug.

A9159, Type 5-6b. For 6 volts. With permanent mounting bracket and 2 1/2 ft. cord.

A9160, Type 5-32a. Portable. For 32 volts. With 6 ft. cord and plug.

NET EACH \$4.09



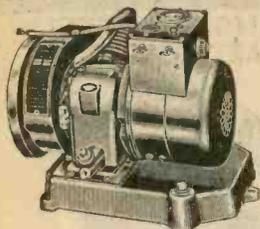
A.T.R. "SHAVERPACKS"

A.T.R. Shaverpacks are uniquely designed especially for operating electric shavers in cars or other places having 6 volt D.C. supply. Ideally suited for electric shaver owners who travel extensively. Shaverpacks are housed in a black-wrinkle finish metal cabinet, size: 4 1/4" x 3 3/4" x 2 3/4". Shpg. wt., 3 lbs. Operates from 6 V. D.C. Cap. 15 watts. **A9175. NET \$4.09**



A9176. The same Shaverpack as described above but designed to operate from 32 V. D.C. source as on trains, boats, or buses. Output cap., 15 watts. This A.T.R. Shaverpack gives your shaver exceptional utility. **NET PRICE \$4.67**

GAS ENGINE PLANTS & WINDCHARGERS



NEW PIONEER "BLUE-DIAMOND" 110 VOLT GAS-ELECTRIC PLANTS

Super-efficient, dual-purpose Electric Power Plants for supplying A.C. and battery-charging D.C. The A.C. plants deliver 110 volts for flickerless lighting, the same as supplied by power companies. Offer all the conveniences of 110 V. A.C. for areas where power-line electricity is not available. Engine is 4 cycle, air-cooled 1/4 H.P. type with built-in governors to maintain constant engine speed. Generator is 4-pole type, direct-connected to crankshaft of engine and encased in rugged steel shell. Entire plant is sturdily built of finest quality parts to furnish efficient, long-life service. All have self-starting features. All plants except 600 and 1000 watt sizes hold enough fuel to last 12 to 16 hours. Size of all plants except 600 and 1000 watt models: 19 1/2"x14"x14".

300 WATT A.C.—200 WATT D.C.

A10953. Type B06. Supplies both 300 Watts A.C. and 200 Watts D.C., sufficient to charge any 6 volt wet-cell battery. Less filter. (See filter listing below.) Built-in tank holds gallon of fuel to run plant for \$ **58.35** 12 to 16 hrs. Wt., 116 lbs. NET.

A10954. Type BDR6. Same specifications as B06 above but with remote-control push-button starting and stopping. \$ **78.70** Shpg. wt., 120 lbs. NET.

RADIO FILTERS

A10960. For 300 watt plant. Prevents disturbing noises from entering power lines. NET \$ **4.41**

A10957. For 600 and 1000 watt plants. NET \$ **11.25**

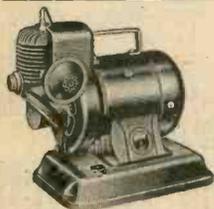
WE CAN SUPPLY PIONEER gas engine generators and electric power plant units for 6, 12, 32, and 110 volts, and up to 5000 watts. Write for attractive price quotations.

6 VOLT 240 WATT BATTERY CHARGER

Here's the greatest development in farm lighting equipment in years. This new power plant is equipped with a powerful Diesel engine which burns gasoline, kerosene, or fuel oil. Even the cheapest fuel will operate the unit for hours and develop up to 240 watts of 6 Volt D.C. Unit has convenient push-button self-starter, automatic cut-out, and fully enclosed engine and generator.

FOR 6 VOLT BATTERIES

Charges 6 volt storage batteries for operating radios, farm lighting systems, etc. Ideal for all power needs in unwired areas and on boats, trailers, etc. Has only three moving parts—nothing to get out of order. Shpg. wt., 75 lbs. \$ **35.25**
A10963. NET PRICE.



KNIGHT WINDCHARGERS

HY-TOWER CHARGER

Get FREE POWER from the wind with this new de luxe Hy-Tower Charger. Costs nothing to operate; delivers up to 16-20 amperes of direct 6 volt current. Charges 6 volt storage batteries to supply current for radios, lighting service, etc. Features: weatherproofed, balanced propeller; automatic tilt-back regulator; heavy-duty generator or wick cuts in at 370 R.P.M.; automatic turntable brake; throw-out collar for easy starting or stopping. Supplied with 10-foot all-steel tower, accessories, and instructions. Shpg. wt., 75 lbs.

A10610. Complete Hy-Tower Windcharger. Fig. A. List Price \$29.50. \$ **19.75**
YOUR NET PRICE.
Your price when purchased with any KNIGHT Radio Set, only \$ **17.50**

NEW 32 VOLT WINDCHARGER

A10608. 32 Volt 1000 watt direct-drive Windcharger. Less tower, but with universal all-steel tower adapter. Write for descriptive literature. Shpg. wt., 175 lbs. F.O.B. Clarinda, Iowa. \$ **117.50**
NET.

WINDMILL SIDE-TOWER CHARGER

Ideal for mounting on a windmill tower close to the house. Has all features as described above; automatic tilt-back regulator; heavy-duty generator; automatic turntable brake, etc. Supplied with accessories for mounting off side of any windmill tower. Wt., 75 lbs. F.O.B. Clarinda, Iowa. \$ **19.75**
A10611. Fig. B. NET.

SKY-SCRAPER CHARGER

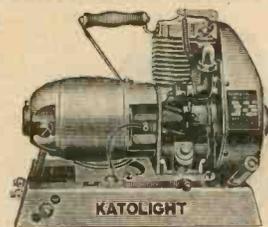
"The higher the tower, the greater the power." Includes same charger head as described above, but is supplied complete with a full 42 1/2 foot all-steel Sky-Scraper tower. Captures every gust of wind even in areas of low wind velocity to offer exceptionally reliable battery-charging. (For offering of tower only, see below.) Shpg. wt., 215 lbs. F.O.B. Clarinda, Iowa. \$ **33.75**
A10612. Fig. C. List Price, \$47.00. NET.

SKY-SCRAPER TOWER ONLY

The 42 1/2 foot all-steel Sky-Scraper tower is offered separately for Windcharger installations. Also ideal for use as antenna mast for Amateur station. Complete with guy wires. Shpg. wt., 154 lbs. F.O.B., Clarinda, Iowa. Shipped unassembled; with hardware. \$ **17.50**
A10613. List, \$22.50. NET.



KATO A.C. PLANTS



JUNIOR MODEL JRA3

These plants furnish a constant source of standard 110 volt 60 cycle A.C. current for light and power in small summer homes, camps, trailers, sound trucks, etc. Fuel consumption is 10 hours to one gallon of gasoline at 300 watts. Oil consumption: 2 oz. for each 10 hours operation. 1/4 h.p. air-cooled, single vertical cylinder engine with "L" head, 4-cycle type; speed 3600 R.P.M. Flyball-type governor, splash-type lubrication. Will charge 6 volt battery up to 10 amps. With convenient terminals, generator filter condenser, shielded ignition cable, suppressor, carrying handle, V-belt pulley, muffler, and instruction manual. Peak rating, 350 watts. Shpg. wt., 80 lbs. \$ **67.20**
A10125. YOUR PRICE.

JUNIOR MODEL JR35

As above, but with self-crank feature; charges 6 volt batteries up to 20 amps. Use a standard 6 volt battery for self-starting. 300 Watts at 110 V. A.C. Shpg. wt., 80 lbs. \$ **73.50**
A10126. NET.

NEW HOMELIGHTING PLANT

A compact new gas-engine generator for home lighting use. Uses Johnson 1/4 h.p. engine. Run 10 hours on 1 gal. of gas. Has push-button starter, ammeter, built-in filter, etc.

350 WATTS A.C.—200 WATTS D.C.

Develops 350 watts, 110 V. A.C. for lighting or 200 watts D.C. for charging 6 V. batteries. Size: 20"x16"x12 1/2". Shpg. wt., 96 lbs. \$ **71.25**
A10123. Model 19A. NET.

6 VOLT LIGHTING SYSTEM AND ACCESSORIES



A complete kit of essential equipment for wiring the rural home. A 6 volt battery charged by

Windcharger or gas-engine provides plenty of current. Kit includes: 1—porcelain entrance switch and fuse block; 2—30 amp. fuses; 100-foot roll No. 8 weatherproof wire; 25-foot roll twisted drop-cord; 6 pull-chain sockets; 6 porcelain cleats; 6 porcelain nail brackets; 2—6" porcelain tubes; 1—4-oz. roll of tape; 1—4-oz. roll rubber tape; and instructions. \$ **6**
A3458. NET.

6 VOLT LIGHT BULBS

These high-grade G.E. licensed light bulbs give maximum light from a 6 volt storage battery. Made by KENRAD. Have frosted inside surface and standard Edison base. (Also available 12 volt type; write us for prices.)

No.	Watts	Drain
A890	15	2.5 Am
A891	25	4.2 Am
A892	50	8.5 Am
A5469. Pull-Chain Socket, standard Edison socket with NET EACH.		

LIGHT PLANT W

Weatherproof single conductor charger or gas engine plants.

No.	Size	100 F
A2490	6	\$5.25
A2491	8	4.50
A2492	10	3.10
A2493	12	2.60
A2496	14	1.20



A GREAT Knight P.A. INSTALLATION

The giant P.A. installation in the famous Chicago Grant Park Band Shell is a typical example of the ruggedness, output and quality of Knight Sound Equipment. Subjected to heavy usage at tremendous volume loads, it performs continuously, covering vast multitudes of up to 250,000 people, carrying flawlessly the performances of world-famous artists and orchestral and band organizations.

MONEY-BACK GUARANTEE!

This is the fairest and the strongest Sound System guarantee you could ask for. We ask you to compare the overall performance of any Knight Sound System with that of any other system now on the market. Order the model you want, buying for Cash or on Time Payments, and test it for yourself, under your own operating conditions. You will be the judge yourself.

...ures, compare the
...he actual perform-
...t Sound System isn't
...im it to be, if it
...to be the biggest P. A.
...on the market for power,
...or all-around results after
...it—send it back, and we'll
...penny of the purchase
...only transportation charges.
...too, that every
...and System is cov-
...the regular Radio
...turers' Association
...for extra assurance.
...ALLIED RADIO

You get More Watts, More Quality, More Performance for less money when you buy 1940 KNIGHT P.A. Equipment. Each KNIGHT Sound System is the creation of the country's leading P.A. research engineers, the product of modern laboratories and precision workmanship. You buy with confidence, knowing that each KNIGHT Amplifier incorporates the finest circuit design, utilizing every tube to maximum advantage within safe rated limits; you know that you are getting practical features that count in the field; you know that you can depend on KNIGHT for ruggedness, power and flawless tone.

Sound experts supervise the assembling, testing and shipment of each KNIGHT Sound System. Each System comes to you complete, ready for operation. All you have to do is plug in and you're ready for perfect operation.

Competent ALLIED Sound Engineers invite you at all times to submit your P.A. problems to them. Authoritative and proper recommendations will be sent promptly without obligation on your part.

E. R. P. I. LICENSED

All Knight Sound Systems are licensed by Electrical Research Products, Inc., under patents of Western Electric and A. T. & T.

KNIGHT Sound Systems challenge comparison by any yardstick — compare Features, Specifications, Tone Quality, Power Output, Appearance, Materials or Workmanship—consider the Price—and you'll find that KNIGHT gives you more for your P. A. dollar!

Buy Knight P.A. ON EASY TIME PAYMENTS

SIMPLIFIED TABLE OF TERMS

If Cash Price of Order Amounts to	minimum Down Payment is 10% of Cash Price	To Find Carrying Charges	Monthly Payments 8 Months
\$40.00	\$4.00		\$ 4.95
60.00	6.00		7.43
80.00	8.00		9.90
100.00	10.00		12.38
120.00	12.00		14.85
150.00	15.00		18.57
175.00	17.50		21.66
200.00	20.00		24.75
225.00	22.50		27.85
250.00	25.00		30.94

Simply add 10% to unpaid balance if the balance is \$36.00, then the carrying charge is \$3.60 and the amount yet to be paid is \$39.60 + \$3.60 or \$43.20.

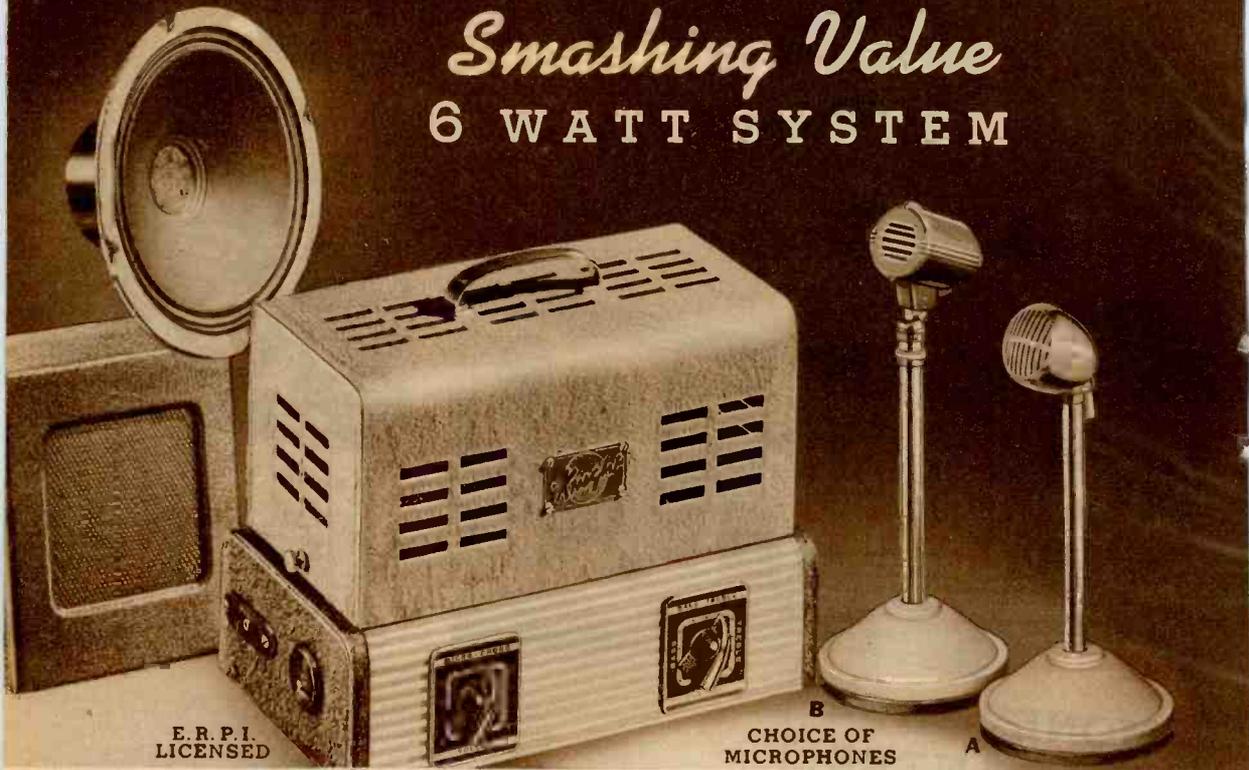
USE OUR PRACTICAL, ATTRACTIVE PLAN

Don't lose big profits in P.A. for lack of cash! You can get any of the profit-building Knight P.A. Equipment you need—NOW—and make it earn for you while it pays for itself. You can buy Knight Public Address Equipment easily and conveniently on our attractive new Monthly Payment Terms, if your order comes to \$40.00 or more. You'll find our Time Payment Plan extremely attractive. Complete explanation appears below; table of terms appears at left. It will pay you to make your Public Address purchases from ALLIED. You get the finest equipment in the field at the lowest prices—and, in addition, you can, if you wish, buy it on the easiest terms you can get anywhere. Select the Knight Public Address Equipment you want now, and order, enclosing Down Payment, for quick service—or write for full details.

SEND DEPOSIT WITH ORDER FOR SPEEDY SERVICE

Take eight months to pay. You pay just 10% down, and the balance in convenient monthly payments. Add 10% to the unpaid balance to cover carrying charges. Then divide by 8 to obtain the monthly payments required. Select the equipment you want, and send in your order with a 10% cash down payment, including your credit references. Credit investigation will be promptly handled and contract forms for your signature will be forwarded to you immediately afterward. Get started now with the Sound Equipment you've been wanting.

Smashing Value 6 WATT SYSTEM



E. R. P. I.
LICENSED

CHOICE OF
MICROPHONES

- Ideal for Paging • Store Window Demonstrations • Side Shows • Carnivals • Cafes • Auctioneers • Fountains
Restaurants • Weighmasters • Churches • Sales Meetings • Classrooms • Lecturers • Market and Race Reports
- Universal Input
 - Tone Control
 - Beam Power
 - Safety Output
 - Fuse-Protected
 - Polarized Plugs
 - P.M. Type Speaker
 - Mike-Phono Fader

Available for the first time—America's lowest-priced quality Sound System! Here are surprising "extra" features to bring the P.A. user the absolute maximum for his money. Ideal for smaller installations where moderate coverage is required with greatest economy.

- **Easy to Operate.** The Knight 6 Watt High-Gain System comes complete, ready to set up quickly and easily. Anyone can operate this complete equipment instantly. Everything is complete from A.C. plug to speaker housing, perfectly matched, ready to operate—nothing to add, nothing external to worry or fuss about. It's ready to play wherever there's A.C.
- **Latest Features.** Smooth-acting microphone-phono fader is incorporated for controlling microphone or phonograph volume and for fading from one to the other. A variable Bass-Treble Control provides full tonal emphasis as required and compensates for varying acoustical conditions. Has universal microphone input for any high-impedance microphone and for magnetic or crystal pickup. A socket is provided for extra speaker (high-impedance P.M., dynamic or magnetic) or headphones. Microphone and speaker receptacles are polarized for rapid connection.

AMPLIFIER SPECIFICATIONS

Output: Full 6 watts undistorted (8 watts peak); hum is inaudible; **Output Impedance:** 4000-3500 ohms direct from plate of tube; **For P.M. Speakers:** No field current provided; **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:** 50-8000 C.P.S. (amplifier); **Tubes:** 1—6SC7, 1—6L6G, 1—80; **Line Drain:** 70 watts; **Fused:** fully fused for operation from 110-120 volts, 60 cycles A.C.; **Amplifier Size:** 10 1/2" x 8 3/4" x 7 1/4". E. R. P. I. Licensed Fully licensed by E. R. P. I. under patents of Western Electric and A. T. & T.

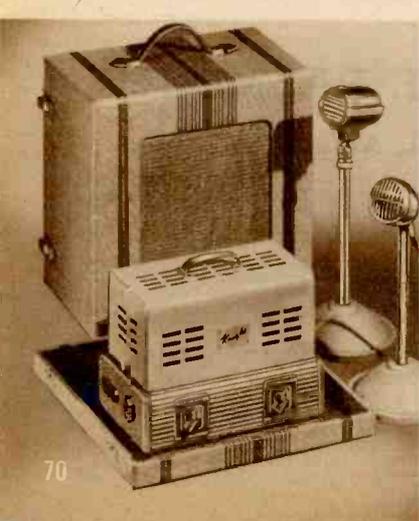
- **Modern Styling.** The Knight 6 Watt Amplifier is beautifully presented in an all-steel case of compact, streamlined design, with handy carrying handle. Has two-tone tan-crackle finish. Wiring diagram is mounted on base plate. No detail has been overlooked to bring the P.A. market the most for its money.

• **Complete System.** Complete 6 Watt System includes: 1—Knight 6 Watt Amplifier; 1—Shure Crystal microphone (A) with 25 foot cable and polarized plug on desk stand; 2" P.M. Speaker with 30 foot cable and polarized plug mounted in wall baffle as illustrated; R.C.A. tube kit; complete operating instructions. For 110-120 volts, 60 cycles A.C. Shpg. wt., 35 lbs.
A12107. List Price, \$44.50.
NET PRICE..... \$21.85

• **A12108.** Complete 6 Watt System as above but with Knight—Astatic Dynamic mike (B) in place of Shure mike.
List Price, \$47.50. **NET PRICE..... \$23.95**

• **A12106.** Amplifier Only. As described at left, but less tubes. Shpg. wt., 17 lbs.
List Price, \$16.50.
NET PRICE..... \$8.45

• **A12150.** R.C.A. Tube Kit. **NET \$1.83**
Optional Equipment. For A 10550 floor stand in place of desk stand, add \$2.35. For extra 8" speaker, cable and wall baffle, add \$4.65. For steel-aluminum projector instead of wall baffle, add \$3.15.



Steel-Aluminum Baffle. To get greater directional effect and longer distance coverage, we suggest the use of A10290 steel - aluminum baffle - described on page 99. If steel-aluminum baffle is desired, in place of wall baffle, add \$3.15.



Bass-Treble Control is provided in the Knight 6 Watt System to give tonal emphasis as desired and to compensate for varying acoustical conditions. Also minimizes acoustical feedback. An important extra-value P.A. feature.



Phono Input. In addition to input for any high-impedance microphone, phono input is provided for any magnetic or crystal pickup. Both are on a single fader control. For portable phonograph, see description on page 90.

6 WATT PORTABLE SOUND SYSTEM

The Knight 6 Watt Economy Sound System is offered also in modern, low-cost portable style. Unusually compact, well-balanced and convenient. The entire system is completely contained in a single airplane-cloth carrying case, 13 3/4" x 13 3/4" x 9 1/2". Weighs only 31 lbs. System comes complete in sturdy and attractive carrying case shown. Includes: 1—Knight 6 Watt Amplifier with tubes, Shure Crystal Microphone and desk stand with 25 foot cable and plug; 1—8-inch P.M. Speaker with 30 foot cable and polarized plug—all in a single unit carrying case. For operation on 110-120 volts, 60 cycles. Shpg. wt., 45 lbs.

A12109. Complete 6 Watt Portable System with Shure Crystal Mike. **\$25.85**
List, \$52.50. **YOUR PRICE.....**

A12110. 6 Watt Portable with Knight-Astatic Dynamic Mike. **\$27.95**
List, \$57.50. **YOUR PRICE.....**

Low-Cost 14 WATT SYSTEM



Suitable for Small Orchestras • Lecturers • Sales Meetings • Paging • Auctioneers • Taverns • Garages
Tent and Road Shows • Hotels • Parking Lots • Group Hearing Aids • Church Societies • Schools • Court Rooms • Clubs

- Inverse Feedback
- Series Mixer
- Bass-Treble Control
- Speaker Selector
- 2 Input Channels
- Universal Output
- Optional Phono
- Silencer Jack

Here's a new P.A. System that's stripped for action—no frills—no trimmings—putting out 14 honest watts to do a real job at a smashing low price! The Knight 14 Watt Economy System gives you top value in features, in ease of operation, in performance and looks.

• **Complete.** When you buy the Knight 14 Watt System, you know you're getting it complete, ready to set up and operate instantly and easily. There's nothing else to add, nothing to worry about; anyone can set it up quickly and simply for instant operation.

• **New Features.** Never before have you been offered so many quality features in an Economy Sound System. Has: Inverse Feedback for greater output with better tone quality; new Series Mixing permits blending and "mixing" of microphone and phono inputs; Universal Input accommodates any high-impedance microphone and any crystal or magnetic pickup; Universal Output permits instant match to additional speakers; Silencer Jack checks hum when mike is removed.

AMPLIFIER SPECIFICATIONS

Output: Full 14 watts undistorted (18 watts peak); hum is inaudible; **Output Impedance:** 2, 4, 6, 8, 16 and 500 ohms on selector; **For P. M. Speakers:** no field current provided; **Input Channels:** Two, one for mike, one for phono, on individual controls; **Tone Control:** for bass and treble; **Gain:** on microphone, 120 db., on phono, 68 db.; **Frequency Response:** 50-8000 C. P. S. (amplifier); **Tubes:** 1-6J7, 1-6Z7G, 2-6V6C, 1-80; **Line Drain:** 75 watts; **Fused:** fully fused for operation from 110-120 volts, 60 cycles A. C.; **Amplifier Size:** 17 1/2" x 9 3/4" x 11 1/4".
E. R. P. I. Licensed: Fully licensed by E. R. P. I., under patents of Western Electric and A. T. & T.

• **Optional Phono Top.** Here's a new and exclusive Knight P.A. feature. Say goodbye to trailing wires, extra phono cases, fuss and bother. You can buy the Knight 14 Watt System with built-in phono top; has rim-driven 78 R.P.M. synchronous motor, 9" turntable, tilt-head magnetic pickup, switch and arm rest.

• **Extra Features.** Bass-Treble Control gives tonal emphasis as desired and reduces feedback; Output sockets are 2-contact type; has provision for extra speakers; Octal selector permits instant speaker matching; wiring diagram is furnished on base plate of amplifier; beautiful new two-tone tan steel case styling with handsome chromium control panel.

• **Complete 14 Watt System.** Includes: 1-Knight 14 Watt Amplifier less phono top; 1-Shure Crystal Microphone with 25 foot cable on desk stand; 12" P.M. Speaker with 30 foot cable and plug, mounted in wall baffle as illustrated; R. C. A. tube kit; complete instructions. For 110 volts, 60 cycles A. C. Shpg. wt., 45 lbs.
A12115. List Price, \$69.50. **NET PRICE, \$34.85**

A12193. Phono Top for above. For 110 V, 60 cycles. Shpg. wt., 15 lbs. **NET...\$7.45**

A12114. 14 Watt Amplifier Only. As described but less Phono Top and Tubes. Shpg. wt., 25 lbs.
List Price, \$34.50. NET PRICE...\$16.95

A12151. R. C. A. Tube Kit. **NET.\$3.24**

Optional Equipment: For A10550 floor stand in place of desk stand add \$2.35. For extra 12" speaker, cable and wall baffle, add \$6.50. For steel-aluminum projector instead of wall baffle, add \$2.30.



Less Phono Top. Illustration shows the 14 Watt amplifier appearance without phono top. Removable top cover gives easy access to tubes. Input and output sockets are located on side and rear base panels for quick access.



Steel - Aluminum Baffle. For greater distance coverage with greater directional effect, we recommend the A10290 steel-aluminum baffle described on page 99. If steel-aluminum baffle is desired in place of wall baffle, add \$2.30.



Choice of Mikes. In place of the Shure Crystal mike shown with System, you can have your choice of A—Knight-Astatic Dynamic, B—Astatic T-3 Crystal, or C—Electro-Voice V-1 Velocity, at an additional cost of \$3.45.

14 WATT PORTABLE SOUND SYSTEM

The Knight 14 Watt High-Gain Sound System with Shure Crystal Microphone is available also in a modern, low-cost portable system. All components are housed in a single split carrying case of modern design, 22 1/2" x 18 1/4" x 13 3/4". Weight complete is only 42 lbs. The complete Knight 14 Watt High-Gain Portable System includes: 1—Knight 14 Watt High-Gain amplifier; 1—Shure Crystal Microphone with desk stand and 25 foot cable and plug; 1—12-inch P.M. Speaker with 30 foot cable and plug, R.C.A. tubes, and operating instructions. Less phono top. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 47 lbs.

A12116. List, \$79.50. **YOUR PRICE COMPLETE...\$39.95**
A12187. Extra 12" Speaker with 30 foot cable. Fits in second half of case. **NET...\$4.50**



The Economy 30 WATT SYSTEM



**E.R.P.I.
LICENSED**

The Knight 30 Watt Sound System is licensed by Electric Research Products, Inc., under patent arrangements with Western Electric Company and A. T. & T. You get superior engineering and performance in the Knight 30 Watt System.

GROUP 1

GROUP 2



CHOICE OF MICROPHONES

In place of the Shure Crystal Microphone, you can have your choice of microphones from the following two groups: Group 1: A—Astatic T-3 Crystal, B—Electro-Voice V-1 Velocity, C—Knight-Astastic Dynamic; Group 2: D—American D5-T Dynamic, E—Shure "Uniplex" Crystal. For any mike in Group 1, add \$3.45 to price of complete system. For any mike in Group 2, add \$7.25. For complete, detailed descriptions of microphones above, see pages 94-96.

Ideal for Athletic Fields • Parks • Road Shows • Auditoriums • Ballrooms
• Churches • Skating Rinks • Armories • C.C.C. Camps • Political Rallies

- Optional Phono Top
- Universal Mike Input
- Bass-Treble Control
- 3 Input Channels
- Speaker Selector
- Silencer Mike Jacks
- Inverse Feedback
- Universal Output
- Beam Power Tubes

Here's your chance to own a high-power, high-quality Sound System at an Economy Price! Here's the far-reaching power punch you need, the features you've been looking for, the truly faithful tone quality you've always wanted. And you can't beat the Knight 30 Watt Economy System for ease of installation and operation. It comes to you complete—nothing to add—nothing to fuss with—ready to set up and use instantly, anywhere.

• **3 Input Channels.** Will accommodate any two high-impedance microphones, as well as crystal or magnetic phono pickup. Individual volume controls, in a novel mixer circuit, allow any degree of blending or "mixing" as desired. Here is a degree of versatility in an "Economy" P. A. amplifier that you find ordinarily only in the most costly units.

• **Inverse Feedback.** Results in greater power output with less hum and noise, and remarkably improved tone quality. A really deluxe feature that means extra performance, extra tonal perfection and extra value.

• **Optional Phono Top.** A new and exclusive Knight feature. You can buy the 30 Watt System with built-in phono top—no extra cases, no trailing wires to fuss with! Equipment includes: rim-driven 78 R.P.M. motor, 9" turntable, tilt-head magnetic pickup, switch, arm rest and plug-in connection.

• **Bass-Treble Control.** Gives tonal emphasis as required; compensates for varying acoustical conditions; minimizes feedback. An important feature found only in the finest P. A. amplifiers, selling at much higher prices.

• **Extra Features.** Has Universal Output Selector permitting instant switch to additional speakers or line; Silencer Jacks check hum when mike is removed; diagram is mounted on base plate; two contact sockets for quick output connections; fully fused for protection; 12-inch heavy-duty P.M. Dynamic Speakers handle output adequately; beautiful new two-tone tan steel amplifier case with handsome chromium control panel.

AMPLIFIER SPECIFICATIONS

Output: Full 30 watts undistorted (40 watts peak); hum is negligible; **Output Impedance:** 2, 4, 6, 8, 16 and 500 ohms on selector; **For P.M. Speakers:** no field current provided; **Input Channels:** Three, two for high-gain mikes, one for phono, on individual controls; **Tone Control:** for bass and treble; **Gain:** on microphone, 125 db, on phono, 75 db; **Frequency Response:** 50-8000 C.P.S. (on amplifier); **Tubes:** 2-6J7, 2-6N7, 2-6L6G, 1-5Z3; **Line Drain:** 165 watts; **Fused:** fully fused for operation from 110-120 volts, 60 cycles A.C.; **Amplifier Size:** 17 1/4" x 9 3/4" x 11 1/4"; E. R. P. I. Licensed.

• **Complete 30 Watt System, Includes:** 1 Knight 30 Watt amplifier less phono top; 1—Shure Crystal Microphone with 25 foot cable on A10550 floor stand; 2—12" P.M. Speakers with 30 foot cables and plugs attached, mounted in 2 heavy-duty fabrikoid-covered wall baffles as illustrated; R.C.A. tube kit; complete instructions. For 110 volts, 60 cycles, A.C. Shpg. wt., 70 lbs. **\$54.95**

A12131, List Price, \$110.00. NET PRICE

Terms: \$5.50 down, \$6.80 monthly for 8 mo. **A12193, Phono Top for above, For 110V, 60 cycles, Shpg. wt., 15 lbs. NET, \$7.45**

A12130, 30 Watt Amplifier Only, As described but less phono top and tubes, Shpg. wt., 30 lbs. List Price, \$49.50. NET PRICE

A12152, R.C.A. Tube Kit, NET, \$5.37

Optional Equipment: For extra 12" speaker, cable and wall baffle, add \$7.25. For steel-aluminum projectors instead of wall baffles, add \$1.50 for each desired.

30 WATT ECONOMY PORTABLE SYSTEM

The Knight 30 Watt High-Gain Sound System with Shure Crystal Microphone is available also in a modern, low-cost portable system. All components are housed in a single split carrying case of modern design, 22 1/2" x 18 1/4" x 13 1/4". Weight complete is only 47 lbs. Includes all the fine features described above. The complete Knight 30 Watt High-Gain Portable System includes: 1—Knight 30 Watt High-Gain amplifier; 1—Shure Crystal Microphone with floor stand and 25 foot cable and plug; 2—12 inch P. M. Speakers with 30 foot cables and plugs, complete set of R.C.A. tubes and operating instructions. Less phono top. Entirely self-contained in portable case. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 54 lbs.

A12132, List Price, \$140.00. YOUR PRICE COMPLETE

\$59.95

Terms: \$6.00 down, \$7.42 monthly for 8 months.

Knight SOUND SYSTEMS SATISFY THESE USERS!



Allied Radio Corporation,
633 N. Jackson Blvd.,
Chicago, Illinois.

Gentlemen:

The centralized control system which you planned and built for us, is working splendidly. Furthermore with our three channel system of wiring to all cells, it is a great improvement as we require nothing in the cells with all the aerial wires that formerly cluttered up the cell blocks under the old obsolete system.

I congratulate the Allied Radio Corporation on the splendid service they have rendered in the installation of radio in all our three prisons - First, the Michigan Reformatory, Ionia, Mich., second, the Marquette Branch Prison, Marquette, and now the largest one of all, the State Prison of Southern Michigan at Jackson.

Yours very truly,
Harry Jackson
WARDEN.

Industry
American Airlines
American Business Inst.
American Can Co.
Carnegie-Illinois Steel
Cracker Jack Co.
Dominion Power Co.
Nitrate Corp.
Pacific Coast Borax Co.
Piggly Wiggly
Quaker Oats Co.

Schools & Colleges
Bucknell University
Dayton Public Schools
Indiana University
Jackson, O., Schools
Northwestern Univ.
Purdue University
University of Arkansas
University of Chicago
University of Michigan
Saskatchewan Univ.
University of Texas
Washington University
William and Mary

And Hundreds of
Other Schools

Broadcast Stations
WDRG—Hartford
WGL—Fort Wayne
WOW—Fort Wayne
WTAX—Springfield

Churches
First Cong. Moline
Grace Evang., Chicago
Holy Ghost Rectory,
Jackson, Miss.
St. Christian Church,
Euclid, Ohio
and many others

Governmental
Chicago Park District
Headquarters School,
U. S. Air Corps
U. S. Air Corps
Michigan State Reform.
Naval Governor, Guam
Oklahoma State Reform.
River Forest, Ill.
Police & Fire Depts.
U. S. Marine Corps,
Philippine Islands
U. S. Signal Corps
U. S. Treasury Dept.,
San Juan, P.R.

Amusements
Bob Crosby's Band
Buckeye State Shows
Fairbanks Ice Carnival
Greater Expn. Shows
Peerless Shows
Riverview Park, Chgo.
Six-O-Six Club, Chgo.

C.C.C. Camps
Co. 2921, Descuso, Cal.
Co. 2116, Colorado
Co. 2618, Tuscola, Ill.
Co. 362, Fredericksburg

Overseas Users
A. Harbottle, VS6AO
Hong Kong, China
V. D. Philips,
Heliopolis, Egypt
Establishments Ara,
Thessaloniki, Greece
M. Handi Al Chakhidas,
Baghdad, Iran
Automatic Telephone,
Oman, New Zealand
Tobia, Portuguese
S.A.R.L., Lisbon
And Hundreds More

HOW TO SELECT THE PROPER KNIGHT-SOUND SYSTEM

It's easy to select the Knight Sound System best suited for your needs. Just follow these simple directions: (1) Measure the length and the width of the area to be covered. (2) Multiply these two figures to determine the total number of square feet. (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.

Example: 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 location is unusually noisy, order the next larger system—the 20 watt unit shown in the next column to the right.

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. This will give you a sufficiently accurate figure for proper coverage.

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 to determine the total area to be covered.

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 reverse is not true.

D. If you wish to cover two applications simultaneously—e.g., church auditorium and chimes for the tower—first find the size of system required to handle the auditorium alone; then find the size required for the chimes. Choose a system having a power output equivalent to the sum of both (or use two separate amplifiers).

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 a careful consideration of your problem will be forwarded you promptly.

THIS CHART SHOWS YOU HOW TO SELECT YOUR P.A. SYSTEM

Applications	6 WATTS (See p. 70)			12-15 WATTS (See pp. 71, 74, 80)			20-35 WATTS (See pp. 72, 75, 76, 80)			40-70 WATTS (See pp. 77, 79)		
	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 2500	1-8"	Wall	2500 to 6000	2-12"	Wall	6000 to 14,000	2-12"	Proj.	14,000 to 45,000	2-4 Knight Trumpets	
Auditoriums & Banquet Halls	1000 to 3500	1-8"	Wall	3500 to 6500	2-12"	Wall	6500 to 30,000	2-12"	Wall	30,000 to 110,000	4-12"	Proj.
Ballrooms & Dance Halls	1000 to 2500	1-8"	Wall	2500 to 5500	2-12"	Wall	5500 to 14,000	2-12"	Proj.	14,000 to 45,000	4-12"	Proj.
Carnivals & Fairs				1000 to 3000	2-12"	Proj.	3000 to 8000	2-12"	Proj.	8000 to 55,000	2-4 Knight Trumpets	
Chimes Amplification							10,000 to 70,000	2-4 Knight Trumpets		70,000 to 1/2 Mile	4-6 Knight Trumpets	
Churches	1000 to 2500	1-8"	Wall	2500 to 6500	4-8"	Wall	6500 to 20,000	8-8"	Wall			
Factory Paging (Noisy)	500 to 1000	1-8"	Proj.	1000 to 2000	2-12"	Proj.	2000 to 6500	2-12"	Proj.	6500 to 14,500	2 to 4 Knight Trumpets	
Funeral Parlors	500 to 1000	1-12"	Bass Reflex	1000 to 2500	1-12"	Bass Reflex	2500 to 6500	2-12"	Bass Reflex	6500 to 14,500	4-12"	Bass Reflex
Night Clubs & Taverns	1000 to 2500	1-8"	Wall	2500 to 6000	2-12"	Wall	6000 to 14,000	2-12"	Wall			
Outdoor Adv. & Meetings				1500 to 4000	2-12"	Proj.	4000 to 10,000	2-12"	Proj.	10,000 to 75,000	2-4 Knight Trumpets	
Roller Skating Rinks							2000 to 6000	2-4 12"	Proj.	6000 to 45,000	2-4 Knight Trumpets	
Stadiums, Athletic Fields, Race Tracks							3000 to 8000	2-12"	Proj.	8000 to 55,000	4-6 Knight Trumpets	
Store & Office Paging	1000 to 3500	1-8"	Wall	3500 to 6500	2-12"	Wall	6500 to 20,000	2-12"	Proj.	20,000 to 55,000	4-12"	Proj.

Areas given are those of Grandstand or Bleachers.





GROUP 1



CHOICE OF

In place of Shure Crystal mike you can have your choice of mikes from the following groups: **Group 1:** **A**—Astatic T-3 Crystal, **B**—Electro-Voice V-1 Velocity, **C**—Knight-Astatic Dynamic. For any one of these mikes, add \$3.45 to price of complete system. See complete descriptions of all the microphones above on pages 94 to 96.

**E. R. P. I.
LICENSED**

Knight 12 WATT P.A. SYSTEM

Suitable for Orchestras • Schools • Churches • Lecturers • Store Demonstrations • Auctioneers • Small Theatres • Advertising Agencies • Recording Studios • Lodges and Clubs, etc. • Political Rallies • Lodge Halls • Hotels

- 4 Input Channels
- Dual Tone Controls
- Inverse Feedback
- Dual Mike Input
- Dual Phono Input
- Optional Phono Top
- Speaker Selector
- Jensen Speakers
- Beam Power Output
- Optional V.I. Meter

The highest quality moderate-power Sound System offered on the market today. Complete, from A.C. plug to speaker housing, ready to operate instantly. Delivers full 12 watts output undistorted with a lifelike quality of tone that leaves nothing more to be desired. Packed with important, useful features that spell the last word in P.A. versatility and convenience.

• **4 Input Channels.** Will accommodate any two high-impedance microphones as well as any two crystal or magnetic phono pickups. Individual volume controls and phono fader, in a perfected mixer circuit, permit blending or "mixing" of mike and phono as desired.

• **Inverse Feedback.** Provides greater power output; improves tone quality and minimizes distortion. Permits operation at higher levels not possible in ordinary systems.

• **Dual Tone Controls.** Separate controls are provided for bass and treble emphasis and to compensate for varying acoustical conditions.

• **Optional Phono Top.** You can buy the 12 Watt System with the new built-in phono top—no extra cases or trailing wires to bother with. Equipment includes: 78 R.P.M. synchronous motor with 10" turntable. Shure Zephyr Crystal pickup, switch, arm rest and plug-in connection.

• **V. I. Meter or Monitor Speaker.** Optional equipment. Illuminated meter indicates output level of amplifier directly in decibels. Monitor Speaker (high quality 2" P.M.) allows audible check of quality and blending.

AMPLIFIER SPECIFICATIONS

Output: Full 12 watts output undistorted; hum is inaudible; **Output Impedance:** 2, 4, 6, 8, 16 and 500 ohms on selector switch; **For P.M. Speakers:** no field current provided; **Input Channels:** Four, two for high-gain mikes, each with individual control; two for phonograph with fader; **Tone Controls:** one for bass, one treble; **Gain:** on microphone, 125 db. on phono, 73 db.; **Frequency Response:** 40—10,000 C.P.S. (on amplifier); **Tubes:** 2—6J7; 2—6NF; 2—6V6G; 1—80; **Line Drain:** 75 watts; **Fused:** fully fused for operation from 110-120 volts, 60 cycles A.C.; **Amplifier Size:** 20 5/8" x 11" x 13". **E. R. P. I. Licensed:** licensed under patents of Western Electric and A. T. & T.

• **Extra Features.** Speaker Selector Switch permits instant matching to any number of speakers. Silencer Jacks check hum when mike is removed; Booster output socket; Headphone Jacks; diagram on base plate; two contact sockets for quick output connections; fully fused; beautiful new two-tone tan steel case with attractive chromium trim panel.

• **Complete 12 Watt System.** Includes: 1—Knight 12 Watt Amplifier less phono top; 1—Shure Crystal Microphone with 25 foot cable on A10550 floor stand; 2—12" Jensen P.M. 12C Speakers with 30 foot cables and plugs attached, mounted in 2 heavy-duty fabricoid-covered wall baffles; R.C.A. tube kit; complete instructions. Less V.I. meter. For 110 volts, 60 cycles A.C. Shpg. wt., 55 lbs.

A12113. List Price, \$105.00. **\$52.50**

NET PRICE Terms: \$5.25 down, \$6.50 mo. for 8 mos. **A12194.** Phono Top for above. For 110 V. 60 cycles. Shpg. wt., 15 lbs. **\$10.75**

NET. **A12182.** V.I. Meter. **NET.** **\$4.50**

A12183. Monitor Speaker Unit. **\$3.95**

A12112. 12 Watt Amplifier Only. As described but less Phono Top, V.I. meter, and tubes. Shpg. wt., 28 lbs. **\$20.85**

NET PRICE. **A12153.** R.C.A. Tube Kit. **NET.** **\$4.77**

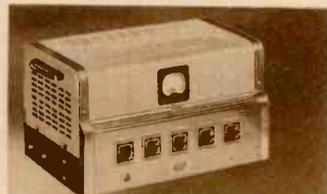
Optional Equipment. For extra 12" Jensen Speaker, cable and wall baffle, add \$11.10. For steel-projector in place of each wall baffle, add \$6.25 to price of system.



Monitor Speaker. Optional with 12 and 20 Watt Systems—a 2" P.M. speaker mounted on grille frame which will exactly fit in V.I. meter cutout on front panel. Allows audible check of tone quality and of program blending.



Steel Baffle. For longer distance coverage with greater directional effect, we recommend the A10935 steel baffle described on page 99. If desired in place of wall baffle, specify steel baffles on order.



Less Phono Top. Illustration shows appearance of 12 and 20 watt amplifier without phono top. Removable cover gives easy access to all tubes, input and output sockets are located on side and rear base panels for quick and convenient accessibility.

KNIGHT 12 WATT PORTABLE SYSTEM

The Knight 12 Watt Sound System is also available in convenient portable form. Has all of the advantages and features described above. Entirely self-contained in two cases—one for amplifier (21 1/2" x 16" x 13 3/4"), the other a split-case for the speakers (21 1/2" x 13 1/2" x 8 1/2"). The complete Knight 12 Watt Portable System includes: 1—Knight 12 Watt High-Gain Amplifier in case; 1—Shure Crystal Microphone with 25 foot cable and plug; 1—A10545 telescoping floor stand; 2—Jensen 12-inch 12C P.M. Dynamic Speakers with 30 foot cables and 2-prong plugs; R.C.A. tube kit and instructions. Shpg. wt., 75 lbs. **A12111.** Complete 12 Watt System (less meter and phono top). List, \$125.00.

CASH PRICE **\$625.00** Terms: \$6.25 down, \$7.74 monthly for 8 months.



GROUP 2



MICROPHONES

Group 2: D — Brush "AP" Crystal, E—Shure "Uniplex" Crystal; F—American D5-T Dynamic. If any of the mikes in this group is desired in place of Shure Crystal shown with system, add \$1.25 to price of complete system. Here is a complete selection of popular microphones from which to make your choice. Each is of accepted quality.

E. R. P. I.
LICENSED

Knight 20 WATT P.A. SYSTEM

Recommended for Orchestras • Record Reproduction • Road Shows • Theatres • Recording Studios • Mortuaries • Rentals • Parks • Auditoriums • Churches • Schools • C. C. C. Camps • Restaurants • Stores • Hotels • Ballrooms

- 4 Input Channels
- Inverse Feedback
- Dual Tone Control
- Speaker Selector
- Jensen Speakers
- Optional Phono
- Dual Mike Input
- Dual Phono Input
- Universal Output
- Remote Control

A complete ready-to-operate full 20 Watt Sound System that meets 75% of all P.A. requirements! It's brilliantly engineered—packed with practical features—true-toned and quality-built to "take it" under the toughest kind of service. And yet the price defies all competition. Just check what you get:

- **Inverse Feedback.** In perfected form; permits greater power output with less distortion; hum and noise, achieving a higher fidelity of tone on both mike and phono.
- **4 Channel Mixing.** Full mixing is provided by means of separate controls for any two high-impedance microphones, and two crystal or magnetic pickups on fader.
- **Dual Tone Controls.** Permit bass and treble adjustment to precise individual requirements; also minimizes feedback.
- **Optional Phono Top.** A new feature. You can buy the 20 Watt System with new built-in phono top to make it versatile and complete. Includes 78 R.P.M. motor with 10" turntable, Zephyr Crystal pickup, switch, arm-rest and plug-in connection.

AMPLIFIER SPECIFICATIONS

Output: Full 20 watts output, undistorted; hum is negligible; **Output Impedance:** 2, 4, 6, 8, 16 and 500 ohm on selector switch; **For P.M. Speakers:** no field current provided; **Input Channels:** Four, two for high-gain mikes, each with individual controls, two for phonograph with fader; **Tone Controls:** one for bass, one for treble; **Gain:** on microphone, 128 db., on phono, 75 db.; **Frequency Response:** 40-10,000 C.P.S. (on amplifier); **Tubes:** 2—6J7, 1—6L7, 1—6C8C, 2—6L6G, 1—5Z3; **Line Drain:** 95 watts; **Fused:** fully fused for operation from 110-120 volts, 60 cycles A.C.; **Amplifier Size:** 20 1/4" x 11" x 13". E. R. P. I. Licensed: Fully licensed by E. R. P. I. under patents of Western Electric and A. T. & T.

- **Plus These Features.** Has Monitor Head-Phone Jacks; Booster Output Socket; Silencer Jacks which check hum when mike is removed; Two-contact outputs, Fused; Wiring diagram on base plate; has provision for plugging in Remote Control (optional). Beautifully styled in two-tone tan steel case.

- **Speaker Selector.** Matches additional speakers instantly — no guessing; just set for best volume and quality.

- **V.I. Meter and Monitor.** Optional equipment; illuminated meter indicates output level directly in decibels. Monitor Speaker allows audible check of tone quality and blending.

- **Complete 20 Watt System.** Includes: 1—Knight 20 Watt High-Gain Amplifier less phono top; 1—Shure Crystal Microphone with 25 foot cable on A10550 floor stand; 2—12" Jensen P.M. 12C Speakers with 30 foot cables and plugs attached, mounted in 2 heavy-duty fabricoid-covered wall baffles; R.C.A. tube kit; complete instructions. Less V.I. meter. For 110 volts, 60 cycles A.C. Shpg. wt., 70 lbs.

A12121. List Price, \$125.00. **NET PRICE \$62.50**

Terms: \$6.25 down, \$7.74 mo. for 8 mos.

A12194. Phono Top for above. For 110 V., 60 cycles. Shpg. wt., 15 lbs. **NET \$10.75**

A12182. V.I. Meter. **NET \$4.50**

A12183. Monitor Speaker Unit. **\$3.95**

A12181. Remote Control with 75 ft. cable. **\$4.85**

A12120. 20 Watt Amplifier Only. As described but less tubes, Phono Top, and V.I. meter. Shpg. wt., 28 lbs. **NET PRICE \$29.50**

A12154. R.C.A. Tube Kit. **NET \$4.91**

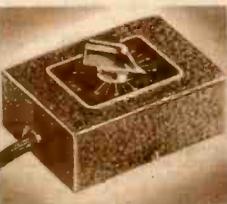
Optional Equipment. For extra 12" Jensen Speaker, cable and wall baffle, add \$11.10. For steel projector in place of each wall baffle, add \$5.40 each to price of system.



Dual Phono input is provided for one or two crystal or magnetic pickups. Two phono or one phono unit in addition to Phono Top may be used. Operated from dual position control—each controlled from either side of a zero position.



Speaker Matching Switch permits instant selection of voice coil or speaker line output impedance to match any number of P.M. speakers to amplifier. No guessing—just set switch where volume and quality are best.



Remote Control. Optional with the 20 Watt System. A compact new cable-connected device which will regulate volume level output of amplifier from remote distances up to 1,000 feet from amplifier.

20 WATT PORTABLE SYSTEM

The Knight 20 Watt System is also available in handy portable form. Includes all of the advanced features described above. Entirely self-contained in two compact cases—one for amplifier (21 1/2" x 16" x 13 3/4"), the other a split-case for the speakers (21 1/2" x 13 3/4" x 8 1/2"). The complete Knight 20 Watt Portable System includes: 1—Knight 20 Watt Amplifier in portable carrying case; 2—Jensen 12" P.M. 12C Dynamic Speakers with 30 foot cables and plugs, mounted in split carrying case; 1—Shure Crystal Microphone with 25 foot cable and plug; 1—A10545 Telescoping floor stand; R.C.A. tubes; and instructions. Shpg. wt., 80 lbs.

A12122. Complete (less V.I. meter and Phono Top). List, \$139.50. **CASH PRICE \$69.95**

Terms: \$7.00 down, \$8.66 monthly for 8 months.





E. R. P. I.
Licensed



Monitor Speaker. Optional equipment. 2-inch P.M. speaker mounted on grille frame which fits V.I. meter cut out on front panel. Permits audible check of tone quality and blending. Available at small added cost.



Less Phono Top. Illustration shows appearance of 35 and 70 watt amplifiers without phono top. Removable cover gives ready access to tubes. Input and output sockets are easily accessible. A really practical design.

Knight 35 WATT SYSTEM

For Athletic Fields • Skating Rinks • Race Tracks • Church Chimes
• Parks • Schools • Orchestras • Airports • Ballrooms • Theatres

- New Twin Tone Booster
- Four Input Channels
- Optional Phono Top
- With Inverse Feedback
- Speaker Selector Switch
- With Universal Output
- Jensen P.M. 12H Speakers
- Remote Control
- Monitor Speaker
- V.I. Meter Optional
- Dual Phono Provision
- Headphone Jacks
- Booster Socket
- Silencer Type Jacks

AMPLIFIER SPECIFICATIONS

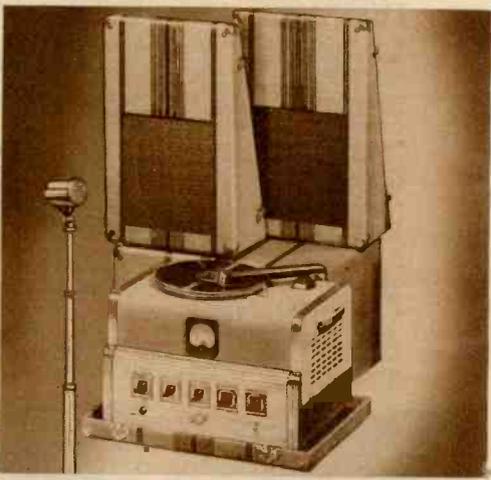
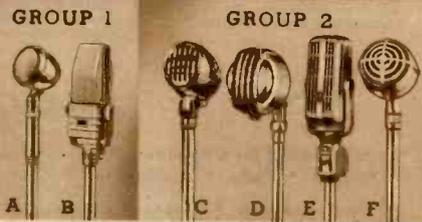
Output: Full 35 watts output, undistorted; hum is inaudible; **Output Impedance:** 2, 4, 6, 8, 16 and 500 ohms on selector switch; For P.M. Speakers: no field current provided; **Input Channels:** Four, two for high-gain mikes, each with individual controls, two for phono with fader; **Tone Controls:** separate booster controls for bass and treble; **Gain:** on microphone, 135 db., on phono, 80 db.; **Frequency Response:** 40-10,000 C.P.S. (on amplifier); **Tubes:** 2-617, 2-6N7, 1-6L7, 2-6L6G; 1-5Z3; **Line Drains:** 175 watts; **Fused:** fully fused for operation from 110-120 volts, 60 cycles A.C.; **Amplifier Size:** 20 1/2" x 11" x 13". E. R. P. I. Licensed.

Here's high-power paired with high quality, and high-fidelity, coupled with high craftsmanship to bring you a Sound System Value you'll marvel at! Just check the features of this complete, ready-to-operate System. Check its looks, its versatility, its price, and we know you'll find the answer to your high-power P.A. needs.

- **4 Input Channels.** Accommodates any two high-impedance microphones with separate controls for each. Has input for two crystal or magnetic pickups on fader control. Permits blending and "mixing" as desired.
- **Twin Tone Booster.** Not ordinary tone controls—actually add power emphasis to treble or bass individually as desired. An important "extra-value" feature.
- **Optional Phono Top.** Exclusive Knight feature! You can buy the 35 Watt System with new built-in phono top for complete P.A. use. No more fuss with extra cases.
- **Power Driver.** A deluxe circuit feature for greater reserve power—provides greater undistorted output with higher-fidelity tone. Gives you plenty of power to spare.
- **Inverse Feedback.** Permits operation at higher output levels by minimizing distortion and hum and improving tone quality.
- **Speaker Selector Switch.** Makes possible instant, easy matching of additional speakers to amplifier—no bother, no guessing required.
- **Remote Control.** Optional equipment. Permits the adjustment of the amplifier output level at remote distances up to 1000 feet from the amplifier.
- **V.I. Meter or Monitor Speaker.** Optional. Illuminated meter indicates output level of amplifier directly in decibels; Monitor Speaker allows audible check of tone quality.
- **Extra Features.** Headphone Monitor Jacks for program supervision; Silencer Jacks which check hum when mike is removed; Booster Outlet; Diagram on base; Fused; in new streamlined two-tone tan case with handsome chromium front panel.
- **Complete 35 Watt System.** Includes: 1—Knight 35 Watt High-Gain Amplifier less phono top; 1—Knight-Astatic Dynamic microphone with 25 foot cable on A10550 floorstand; 2—12" Jensen P.M. 12H Speakers with 30 foot cables and plugs attached mounted in 2 heavy-duty fabricoid-covered wall baffles; R.C.A. tube kit; instructions. Less V.I. meter. For 110 V., 60 cycles A.C. Shpg. wt., 75 lbs.

A12136. List Price, \$154.50.
NET CASH PRICE. **\$76.50**
Terms: \$7.65 down, \$9.47 monthly for 8 months.

A12194. Phono Top for above. For 110 V., 60 cycles. Shpg. wt., 15 lbs. **NET \$10.75**
A12182. V.I. Meter. **NET \$4.50.** **A12183.** Monitor Speaker. **NET 3.95**
A12181. Remote Control with 75 ft. cable. **NET 4.85**
Optional Equipment. For extra 12" Jensen speaker, cable and wall baffle, add \$14.75. For steel projector in place of each wall baffle, add \$5.45 for each.



35 WATT PORTABLE SYSTEM

The Knight 35 Watt Sound System is also available in convenient portable form. Has all of the advantages and features described above. Entirely self-contained in two cases—one for amplifier (21 1/2" x 16" x 13 1/2"), the other a split-case for the speakers (21 1/2" x 13 1/2" x 8 1/2"). The complete Knight 35 Watt Portable System includes: 1—Knight 35 Watt High-Gain Amplifier in case; 1—Knight-Astatic Dynamic Microphone with 25 foot cable and plug; 1—A10545 telescopic floor stand; 2—Jensen 12-inch P.M. 12H Speakers with 30 foot cables and 2-prong plugs; R.C.A. tube kit and instructions. Shpg. wt., 85 lbs.
A12137. Complete 35 Watt System (less meter and Phono Top). **\$87.50**
List, \$175.00.
CASH PRICE
Terms: \$8.75 down, \$10.83 monthly for 8 months.

35 WATT AMPLIFIER ONLY

A12135. 35 Watt Amplifier as described above, but less tubes, Phono Top, and V.I. meter. Shpg. wt., 32 lbs.
List Price, \$69.50.
NET PRICE. **\$34.50**
A12155. R.C.A. Tube Kit. **NET \$6.08**

SPEAKER SELECTOR SWITCH

DUAL TONE CONTROLS

DUAL MIKE INPUTS

Steel Baffle. For greater directional effect and longer distance reach, we recommend the use of the A10935 steel baffle described on page 99. Extremely rugged and durable for heavy use. Will give enduring P. A. service.

Remote Control. Optional equipment. A compact new cable-connected device which will regulate volume level output of amplifier from remote distances up to 1000 feet from the amplifier. Available at small added cost.

E. R. P. I.
Licensed

CHOICE OF MICROPHONES

In place of the Knight-Astatic Dynamic Mike shown with systems, you can have your choice of microphones from the following two groups: Group 1: A — Astatic T-3 Crystal, B — Electro-voice V-1 Velocity; Group 2: C — American D5-T Dynamic; D — Brush "AD" Crystal; E — Knight Velocity; F — Shure "Uniplex" Crystal. For any mike in Group 1, add \$3.45 to cost of complete system. For any mike in Group 2, add \$7.25 to cost of complete system. For complete description of microphones above, see pages 94-96.

Knight 70 WATT SYSTEM

For Big Stadiums • Circuses • Fairs • Airports • Schools • Regattas
• Carillons • Race Tracks • Rinks • Ball Parks • Political P.A. • Ships

AMPLIFIER SPECIFICATIONS

Output: Full 70 watts output, undistorted; hum is inaudible; **Output Impedance:** 2, 4, 6, 8, 16 and 500 ohms on dual selector switches; **For P.M. Speakers:** no field current provided; **Input Channels:** Four, two for high-gain mikes, two for phono, each with individual controls; **Tone Controls:** one for bass, one for treble; **Gain:** on microphone, 135 db., on phono, 80 db.; **Frequency Response:** 40-10,000 C.P.S. (on amplifier); **Tubes:** 2—6T7, 3—6X4, 1—6L7, 4—6L6G, 2—Z3; **Line Drain:** 215 watts; **Fused:** fully fused, or operation from 110-120 volts, 60 cycles A.C.; **Amplifier Size:** 20 1/2" x 11" x 15"; **Licensed.**

- Dual Output Channels
- Twin Inverse Feedback
- Four Input Channels
- Dual Tone Controls
- Dual Power Drivers
- Dual Speaker Selectors
- Dual Phono Provision
- Optional Phono Top
- 4 Jensen P.M. Dynamics
- Remote Control
- Monitor Speaker
- V.I. Meter Optional
- With Headphone Jacks
- With Booster Jack

For you who want tremendous space-conquering power—here's the new giant Knight 70 Watt System! And we mean 70 FULL WATTS! But that's not all—we're bringing you for the first time stupendous power with entirely new and exclusive features, entirely new concepts of performance that set unbeatable standards in the giant power field.

- **Dual Output Channels.** An exclusive, flexible Knight feature, providing front panel controls which make it possible to drive two separate sets of speakers at different volume levels. Ordinary high-power amplifiers drive all speakers at same volume level.
- **Twin Inverse Feedback.** Each output channel has separate Inverse Feedback; permits higher output levels by minimizing distortion and hum and improving tone.
- **Dual Power Drivers.** Each pair of power output tubes is provided with its own power driver; assures gigantic reserve power at all times.
- **Optional Phono Top.** Buy the Knight 70 Watt System with built-in Phono Top. Eliminates separate phono units and troublesome, trailing wires.
- **4 Input Channels.** Accommodates any two high-impedance microphones and two crystal or magnetic pickups; also blends and "mixes."
- **Dual Tone Controls.** Give tonal emphasis as desired and compensate for varying acoustical conditions; also minimize feedback.
- **Dual Speaker Selectors.** Each output channel has individual speaker selector for quick accurate matching to additional speakers on either channel.
- **Optional Equipment.** Remote Control—permits adjustment of amplifier output level at remote distances from amplifier. V.I. Meter—indicates output level of amplifier directly in decibels. Monitor Speaker—allows audible check of tone quality and blending.
- **Extra Features.** Headphone Monitor Jacks; Silencer Jacks; Booster Outlet; Fused; diagram on base plate. Handsome steel case in two-tone tan, with chromium panel.
- **Complete 70 Watt System.** Includes: 1—Knight 70 Watt High-Gain Amplifier, less phono top; 1—Knight-Astatic Dynamic microphone with 25 foot cable on A10550 floor stand; 4—Jensen P.M. 12H Speakers with 30 foot cables and plugs attached, mounted in 4 heavy-duty fabricoid-covered wall baffles; R.C.A. tube kit; instructions. Less V.I. meter. For 110 V., 60 cycles A.C. Shpg. wt., 120 lbs. **\$12750**

NET CASH PRICE.

Terms: \$12.75 down, \$15.78 monthly for 8 months.

A12195, Phono Top for above. For 110 V., 60 cycles. Shpg. wt., 15 lbs. **NET \$12.95**
A12182, V.I. Meter. **NET \$4.50.** A12183, Monitor Speaker. **NET \$3.95**
A12181, Remote Control with 75 foot cable. **NET \$4.85**

Optional Equipment. For extra 12" Jensen speaker, cable and wall baffle, add \$14.75. For steel projector in place of wall baffle, add \$5.45 each. For Knight Trumpet, bracket and 15 watt driver unit in place of Jensen Speaker and wall baffles, add \$11.50 per unit.

70 WATT PORTABLE SYSTEM

The Knight 70 Watt Sound System is also available in handy portable form. Includes all features described above. Entirely self-contained in three compact cases—one for amplifier (21 1/2" x 16" x 13 3/4"), and 2 split-cases for the speakers (21 1/2" x 13 1/2" x 8 1/2"). The complete Knight 70 Watt Portable System includes: 1—Knight 70 Watt Amplifier in portable carrying case; 4—Jensen 12" P.M. 12H Dynamic Speakers with 30 foot cables and plugs mounted in split carrying cases; 1—Knight-Astatic Dynamic Microphone with 25 foot cable and plug; 1—Knight A10545 floor stand; R.C.A. tubes; and instructions. Shpg. wt., 140 lbs.

A12172, Complete (less V.I. meter and Phono Top). List, \$275.00. **\$13750**

CASH PRICE. Terms: \$13.75 down, \$17.02 monthly for 8 months.

70 WATT AMPLIFIER ONLY

A12170, 70 Watt Amplifier as described above, but less tubes, Phono Top, and V.I. meter. Shpg. wt., 55 lbs. List Price, \$117.50. **\$5850**

NET PRICE.

A12156, R.C.A. Tube Kit. **NET \$8.33**



DUAL OUTPUT CONTROLS



Powerful Knight

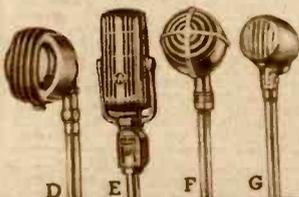
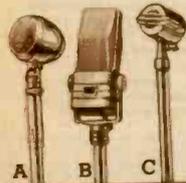


E.R.P.I. LICENSED

GROUP 1

GROUP 2

CHOICE OF MICROPHONES



In place of the Knight-Astatic Dynamic Mike illustrated with the 40 Watt System, you can have your choice of microphones from the following two groups: Group 1: A—Astatic T-3 Crystal, B—Electro-voice "A.V." Velocity, C—American D7-T Dynamic; Group 2: D—Brush "A.P." Crystal, E—Knight Velocity, F—Shure "Uniplex" Crystal, G—American D5-T Dynamic. For any mike in Group 1, add \$3.45 to the total price of the system shown on the next page. For any mike in Group 2, add \$7.25 to the total price of the system. Be sure to specify your choice of microphone clearly when you order. For detailed descriptions of each of the microphones illustrated above, see pages 94-96. Each of the above microphones is of accepted quality and will give excellent results in any P. A. installation.



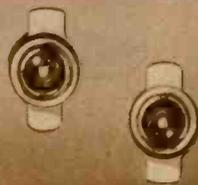
Master Gain Control provides simultaneous control of the overall volume level of all the six input channels of the Knight 40 Watt System; adjusts the total volume level after individual controls are set. An extra-value feature for easier operation.



Speaker Selector Switch permits instant selection of voice coil or speaker line output impedance to match any number of P.M. dynamic speakers to the amplifier. No figuring or guessing—just set the switch at the position where volume and tone quality are best. An advanced Knight convenience feature.



A.V.S. and A.V.E. Automatic Volume Stabilizer and Automatic Volume Expansion. The former automatically prevents feedback and blasting, maintaining constant volume level. A.V.E. is especially effective in providing higher fidelity phonograph reproduction. De luxe, extra-value features you will appreciate.



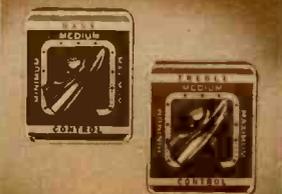
Phono-Mike Switch. A broadcast station feature incorporated for the first time in a P.A. system. Permits instant changeover from microphone to phonograph without disturbing pre-set controls. Center position of switch permits normal mixing of microphone and phonograph controls.

4 Mike Inputs. Provision is made for using up to four high-impedance mikes at the same time; each has a separate volume control allowing blending or "mixing" as desired. Microphones need not necessarily be alike.

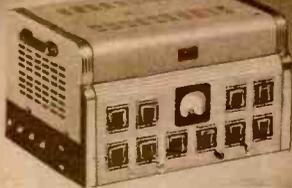
Dual Tone Equalizers permit attenuation or boost of either bass or treble. Each control has dual action; turning control to left gives attenuation; turning control to right gives boosting action. Provides extreme flexibility to meet varying tonal emphasis as required.

Volume Level Meter is available at small additional cost. Indicates volume output of amplifier directly in decibels. Ideal for use where speakers are remotely located from the amplifier, to check the output level. Meter is fully illuminated and can be easily and accurately read in any light.

Dual Phono Input is provided for one or two crystal or magnetic phonograph pickups. Two separate phono units or one phono unit in addition to Phono Top may be used. Operated from individual controls on front panel, permitting blending action.



De Luxe 40 WATT SOUND SYSTEM



Amplifier Less Phono Top. Illustration above shows the appearance of the Knight 40 Watt Amplifier without the Phono Top. Attractive cover is removable, giving easy access to all tubes. Input and output sockets are located on side and rear base panels for quick and convenient access. No other P.A. amplifier has so many advantages in its design. Absolutely the last word in P.A. convenience.



Steel Projector. For greater directional effect, coupled with longer distance coverage, we recommend the use of the A10935 steel baffles described on page 99. These are available at small extra cost (see below). Steel projectors are especially suited for outdoor work or for concentrated direction of sound. The baffles recommended are noted for their fine acoustical design and ruggedness.



Remote Control. An optional piece of equipment with many advantages. This compact, cable-connected device will regulate the volume level output of the amplifier from remote distances up to as much as 1000 feet away. Ideally suitable for dramatic, orchestral, school work, etc., permitting the operator to sit out in front with the audience.



Monitor Speaker. Optional—a high-quality 2" P. M. dynamic speaker mounted on grille frame which exactly fits in V. I. meter cutout on the amplifier front panel. Allows audible check of tone quality and blending action. Available with the 40 Watt System at small extra cost.

Recommended for Broadcast Stations • Orchestras • Recording Studios • Churches • Schools • Yacht Clubs • Hotels • Theatres
Restaurants • Night Clubs • Memorial Parks • Resorts • Parks • Political Rallies • Legislative Groups • Rinks • Armories

- Tone Equalizers
- Mike-Phono Switch
- A.V.S. and A.V.E.
- 6 Input Channels
- Electronic Mixing
- Speaker Selector
- Silencer Jacks
- Headphone Output
- Inverse Feedback
- Power Driver
- Master Control
- Universal Output
- 3 Speaker Sockets
- Booster Jack
- Jensen Speakers
- Fully Fused

Here is our greatest Sound System—a stirring achievement of the greatest P.A. engineering skill—created for the most critical P.A. users. We have put into this complete 40 Watt De Luxe System the best in design knowledge, the very finest P.A. parts and craftsmanship—the newest of practical, desirable features—and the result is a superb Sound System we are proud of—created for dependable power penetration, high-fidelity tone and rugged performance.

- **Six Input Channels.** Input is provided for the use of any four high-impedance microphones and two crystal or magnetic pickups. Individual volume controls are provided for each input channel combined in an electronic mixing circuit which permits any degree of blending and "mixing" as desired. Versatile input arrangement offers you spare channels comparable to broadcast studio facilities.
- **Dual Tone Equalizers.** Never before incorporated in a P.A. amplifier. Separate Tone Equalizer Controls permit attenuation or boost of either bass or treble. Each control has dual action; turning control to left gives attenuation, to right, boosting action.
- **Mike-Phono Switch.** Applied to the two phono channels, and to two of the mike channels. Permits immediate transition from pre-adjusted mike channel to pre-adjusted phono channel, or vice versa. Center position permits normal mixing of mike and phono.
- **Extra Features.** Headphone Monitor Jacks; Booster Connection; Silencer Jacks; diagram on base plate; two-contact output sockets; fused; Beam Power tubes; provision for adding Remote Control, V.I. Indicator, or Monitor Speaker.

AMPLIFIER SPECIFICATIONS

Output: Full 40 watts output, undistorted; hum is inaudible; **Output Impedance:** 2, 4, 6, 8, 16 and 500 ohms on selector switch; **For P.M. Speakers:** no field current provided; **Input Channels:** Six, four for high-impedance mikes, two for phono, each with individual controls; **Tone Controls:** individual attenuation-boost types for bass and treble; **Gain:** on microphone, 138 db., on phono, 80 db.; **Frequency Response:** 30-12,000 C.P.S.; **Tubes:** 4-6J7, 3-6N7, 1-6L7, 2-6H6, 2-6L6C, 2-5Z3. **Line Drains:** 190 watts; **Fused:** fully fused for operation from 110-120 volts, 60 cycles A.C.; **Amplifier Size:** 20 1/4" x 11" x 15"; **E.R.P.I. Licensed:** Fully licensed by E.R.P.I. under patents of Western Electric and A.T. & T.

- **Quality Components.** Two Jensen P.M. 12H heavy-duty speakers are employed for high-fidelity reproduction. All accessory equipment is perfectly matched. Amplifier is streamlined in design, with handsome chromium front panel; in two-tone tan finish.
- **A.V.S. and A.V.E.** Automatic Volume Stabilizer limits excessive peaks to eliminate feedback and blasting. Actually provides twice the usable power output. Automatic Volume Expansion provides realistic reproduction by automatically building up the louder phono passages to preserve the proper relationship between the loud and soft passages of the original. Both A.V.S. and A.V.E. are continuously variable.
- **Inverse Feedback.** In new improved form; permits operation at higher levels by minimizing distortion and hum and improving tone quality.
- **Selector Switch.** New speaker matching switch permits instant selection of voice coil or speaker line output impedance to match any number of speakers to the amplifier.

- **Power Driver.** An exclusive new circuit feature for greater reserve power—provides greater output with higher fidelity tone.
- **Master Gain Control.** Provides instant control of overall volume level. After setting the individual volume controls to desired degree of blending, the Master Control may be used to adjust the total volume level.
- **Optional Phono Top.** Get real P.A. convenience by ordering the Knight 40 Watt System with built-in Phono Top. Includes motor, Zephyr pickup, plug-in, etc. No extra cases to worry about, no trailing wires to fuss with. Gives you complete P.A. convenience.
- **Complete 40 Watt System. Includes:** 1—Knight 40 Watt De Luxe Amplifier less phono top; 1—Knight-Astatic Dynamic Microphone with 25 foot cable on A10550 floor stand; 2—Jensen P.M. 12H Speakers with 30 foot cables and plugs attached, mounted in 2 walnut-finished wall baffles; R.C.A. tube kit; complete instructions. Less V.I. meter. For 110 volts, 60 cycles, A.C. Shpg. wt., 95 lbs. **A12241.** List Price, \$215.00. **NET CASH PRICE**..... **\$10750**
Terms: \$10.75 down, \$13.31 monthly for 8 months.
- **A12195.** Phono Top for above. For 110 V. 60 cycles. Shpg. wt., 15 lbs. **NET**... **\$12.95**
- **A12182.** V.I. Meter. **NET**... **4.50**
- **A12183.** Monitor Speaker. **NET**... **3.95**
- **A12181.** Remote Control with 75 ft. cable. **NET**..... **4.85**
- **Optional Equipment.** For extra 12" Jensen speaker, cable and walnut baffle add \$16.60. For steel projector in place of each wall baffle, add \$4.30.
- **A12240.** 40 Watt Amplifier Only. With features as described above. Less Phono Top, V.I. meter and tubes. Shpg. wt., **\$5650** 50 lbs. List Price, \$112.50. **NET PRICE**..... **\$5650**
- **A12157.** R.C.A. Tube Kit. **NET** \$9.93

40 WATT PORTABLE

The finest high-quality Portable Sound System now available. Incorporates superb performance with unusual portability and convenience. Answers the most exacting and critical sound requirements; ideal for schools, churches, traveling orchestras, musical organizations, night clubs, funeral homes, lecturers, for portable recording work, etc. An unusually compact system. Contained in two handy carrying cases—one for the amplifier (21 1/2" x 16" x 13 3/4") and the other a split-case for the two speakers (21 1/2" x 13 3/4" x 8 3/4"). Weighs only 85 lbs. complete. The 40 Watt Portable System includes all features described above. The complete portable system includes: 1—Knight 40 Watt De Luxe Amplifier in portable carrying case; 2—12-inch Jensen P.M. 12H Dynamic Speakers with 30 foot cables and plugs in dual-speaker carrying case; 1—Shure "Uniques" Microphone with 25 foot cable and plug; 1—Knight A10553 take-down de luxe floor stand; R.C.A. tubes, and complete instructions. For 110 volts, 60 cycles A.C. Shpg. wt., 100 lbs.

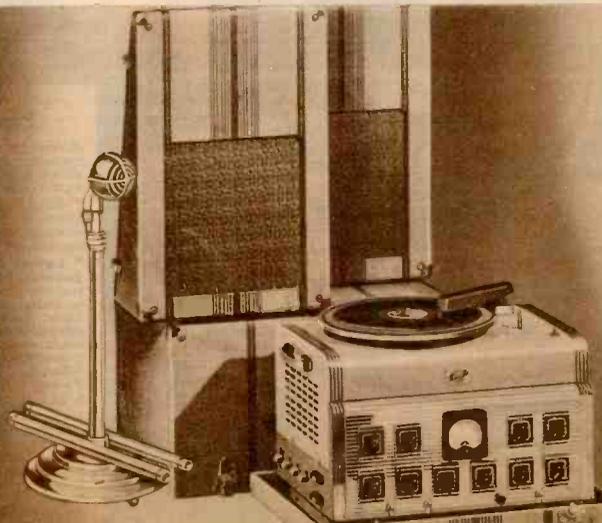
A12242. Complete System (less V. I. meter and Phono Top). List, \$239.50.

CASH PRICE.....

\$11950

Time Payments: \$11.95 down, \$14.79 per month for 8 months.

(For optional equipment listings of phono top, V.I. meter, Monitor Speaker, Remote Control, extra speakers, steel baffles, etc., see at right above. For details of our Liberal Time Payment Plan, see page 69.)



Knight



E.R.P.I.
LICENSED

GROUP 1

GROUP 2



CHOICE OF MICROPHONES

In place of the Knight-Astatic Dynamic Mike illustrated with the 20 Watt System, you can have your choice of mikes from the following groups: Group 1: A — Astatic T-3 Crystal; B — American D7-T Dynamic; Group 2: C — Knight Velocity; D — Shure "Uniplex" Crystal; E — American D5-T Dynamic; F — Brush "AP" Crystal. For any mike in Group 1, add \$3.45. For any mike in Group 2, add \$7.25. See pages 94-96 for descriptions.



Steel Projector. Recommended for use where greater directional effect and longer distance coverage is required. See page 99 for full description. Available in place of wall baffles at additional cost of \$4.25 each. Especially ideal for outdoor applications; built for heavy-duty service.



Monitor Speaker. A 2-inch P.M. speaker in grille-mount which fits into meter cutout on panel; permits checking of volume, tone quality and mixing. A valuable piece of optional equipment that makes for easier control of P.A. operation. A12183. NET...\$3.95



Remote Control. Optional—a cable-connected device which permits regulation of volume from distances up to 1000 feet away from amplifier. Permits the operator to sit out in the audience and to check and control the program remotely and accurately. A12181. NET...\$4.85



Economy

PLAYS FROM 6 VOLTS OR 110 VOLTS

America's lowest-priced Mobile Sound System. Features high-quality, versatile performance, full 15 watts output and rugged dependability—all at a price that's impossible to beat. Only Knight offers you so much quality and value in an "Economy" Mobile Sound System.

- **Compact, Complete.** The 15 Watt Mobile System is designed for versatile performance. Operates directly and entirely from any 6 volt storage battery or from any 110 volt A.C. line. Has built-in phonograph equipment of highest quality for complete operation.
- **Latest Features.** Newest 1940 P.A. features are incorporated. Includes **Inverse Feedback**—offers higher usable output level by minimizing distortion—improves tone quality; **Treble-Bass Control**—permits adjustment to reduce record scratch—assures clear speech, assists in overcoming feedback; **Two Input Channels**—accommodates any modern high-impedance microphone and built-in phono pickup; **Speaker Selector**—permits instant and accurate matching of additional speakers; **Stand-by Switch**—conserves power supply drain but keeps filaments ready for operation; **Silencer Jack**—checks hum when microphone plug is removed; **Beam Power Output**—gives greater output with increased efficiency.
- **Sturdy Construction.** Built of the finest components, selected to withstand the punishment of heavy-duty Mobile use. All controls are assembled conveniently on front panel. Quickly removable top cover and base plate provide easy access to tubes and circuit components.

Universal 20 WATT De Luxe SYSTEM

America's only truly Universal Sound System. Plays anywhere, any time, from any voltage source available—with superb output, amazing fidelity of tone, and astonishing ease of operation. Comes to you complete—with built-in phono top, with power supply for 6 volts, 32 volts, 110 volts D.C. or 110 volts A.C.—ready for operation anywhere.

- **Input Channels.** Has individual controls for two high-impedance mikes, and for additional crystal or magnetic pickup. Provides full mixer action.
- **Dual Tone Controls.** Permit individual bass or treble emphasis as desired; minimize feedback.
- **Inverse Feedback.** Gives higher usable volume level by minimizing distortion and improving tone quality. An effective and desirable feature.
- **Speaker Selector.** Permits instant matching of additional speakers to amplifier. No more guessing; just set where tone and volume are at their best.
- **Built-In Phono.** No extra units, no trailing wires. Highest quality phono components; 78 R.P.M. phono motor, Shure Crystal Pickup, etc.

AMPLIFIER SPECIFICATIONS

Output: Full 20 watts output, undistorted; hum is inaudible; **Output Impedance:** 2, 4, 6, 8, 16 and 500 ohms on selector; **For P.M. Speakers:** no field current provided; **Input Channels:** Four, two for high-impedance mikes, two for phono, with individual controls; **Tone Controls:** two, one for bass, one for treble; **Gain:** on microphone, 135 db., on phono, 80 db.; **Tubes:** 2—6J7, 1—6N7, 1—6L7, 1—6C8G, 2—6L6G, 2—6X5G; **Line Drain:** 100 watts; **Fused:** fully fused for operation on all voltages, 110 volts, 60 cycles A.C. or 6, 32, 110 volts D.C.; **Amplifier Size:** 20 1/2" x 13 1/2" x 13"; **E.R.P.I. Licensed:** Fully licensed by E.R.P.I. under patents of Western Electric and A. T. & T.

The P.A. world has been waiting for this Sound System for years! Imagine it—a System that will play anywhere, from any voltage source! It's the perfect P.A. solution for Traveling Orchestras, Lecturers, Outdoor Advertising, Traveling Stock and Tent Shows, Evangelical Work, C.C.C. Camps, Community Centers, Rural Schools, etc.

- **Automatic Voltage Selection.** Robot control automatically adjusts amplifier for operation from 32 volts D.C. or 110 volts A.C., or D.C. Change to 6 volts is accomplished in a jiffy by means of battery cable instantly substituted for line cord.
- **Extra Features.** Jensen P.M. 12C Speakers for exceptional fidelity; Stand-by Switch for 6 volt economy; Silencer Jacks check hum when mike plug is removed; Headphone Monitor Jacks; fully fused; diagram mounted on base plate; provision for V.I. Meter, Monitor Speaker and Remote Control; two dual-contact speaker sockets, etc. Amplifier case is streamlined in design; built into a beautiful two-tone tan steel case, has chromium front panel, beautifully etched dial plates; with chromium handles.

• **Complete 20 Watt Universal System:** Includes: 1—Knight 20 Watt Universal Amplifier with phono top; 1—Knight-Astatic Dynamic Microphone with 25 foot cable on A10550 floor stand; 2—12" Jensen P.M. 12C Speakers with 30 foot cords and plugs attached, mounted in 2 heavy-duty walnut wall baffles; R.C.A. tube kit; complete instructions. Less V.I. meter. For 6 volts, 32 volts and 110 volts D.C., and 110 volts A.C., 60 cycles. Shpg. wt., 105 lbs.

A12221. List Price, \$255.00. **\$12750**
NET CASH PRICE.....

Terms: \$12.75 down, \$15.78 monthly for 8 months.

A12182. V.I. Meter. NET.....\$4.50

A12220. 20 Watt Amplifier Only. Has all features described above, including phono top, but less tubes and V.I. meter. Shpg. wt., 50 lbs. List Price, \$165.00. **\$8250**
NET PRICE.....

A12159. R.C.A. Tube Kit. NET.....\$6.84
(See opposite page for optional equipment.)

SENSATIONAL

Plays Anywhere

FROM

6 VOLTS
32 VOLTS
OR
110 VOLTS
A.C. or D.C.

- Automatic Voltage Selection
- Four Input Channels
- Dual Tone Controls
- With Inverse Feedback
- With Remote Control
- Speaker Selector Switch
- With Stand-By Switch
- Jensen P.M. Speakers
- Silencer Mike Inputs
- V.I. Meter and Monitor

20 WATT PORTABLE SYSTEM

The Knight 20 Watt Universal Sound System is also available in convenient portable form as illustrated.

Includes all of the advanced features described above. A highly desirable outfit, ideal for "rental installations." Makes possible speedy installation and operation and offers versatile application. Entirely self-contained in two compact cases—one for amplifier (21 1/2" x 13 1/2" x 16"), the other a split-case for the speakers (21 1/2" x 13 1/2" x 18 1/2"). The complete Knight 20 Watt Universal Portable System includes: 1—Knight 20 Watt Amplifier, turntable and pickup, in portable carrying case; 2—Jensen 12" P.M. 12C Dynamic Speakers with 30 foot cables and plugs, mounted in split carrying case; 1—Shure "Uniplex" Microphone with 25 foot cable and plugs; 1—A10545 floor stand; R.C.A. tubes; and instructions. America's most universal portable sound system, designed to cover practically every P.A. need anywhere. Shpg. wt., 125 lbs. A12222. Complete (less V.I. meter). **\$13750**
List, \$275.00.
CASH PRICE.....

Terms: \$13.75 down, \$17.02 monthly for 8 months.



Provision is made for the use of any two high impedance microphones at the same time. Mikes need not be alike. Each microphone has a separate volume control allowing blending or "mixing" as desired. A highly desirable P.A. feature for more versatile P.A. operation. You get wonderful versatility, not only in the ability to operate from every power source, but in inputs as well.

15 WATT MOBILE SYSTEM

IDEAL FOR STREET ADVERTISING • COUNTRY FAIRS • EVANGELICAL WORK • CAMPS

RESORTS • SOUND TRUCKS • DEMONSTRATORS • POLITICAL RALLIES • CARNIVALS

- Two Input Channels
- Bass-Treble Control
- Built-In Phono Top
- Inverse Feedback
- Stand-By Switch
- Mike Silencer Jacks
- For 110 V. A.C.—6 V. D.C.
- Universal Output
- Beam Power Tubes

AMPLIFIER SPECIFICATIONS

Output: Full 15 watts output, undistorted (18 watts peak); hum is inaudible; **Output Impedance:** 2, 4, 6, 8, 16 and 500 ohms on selector; **For P.M. Speakers:** no field current provided; **Input Channels:** Two, one for high-impedance mike, one for built-in phono with individual controls; **Tone Controls:** One bass-treble control; **Gain:** on microphone, 120 db., on phono, 68 db.; **Tubes:** 1—6J7, 1—6Z7G, 2—6L6G, 2—6X5G; **Line Drain:** 70 watts; **Fused:** fully fused for operation on 6 volts D.C., or 110 volts, 60 cycles A.C.; **Amplifier Size:** 17 1/2" x 11 1/2" x 11 1/2"; **E.R.P.I. Licensed:** Fully licensed by E.R.P.I. under patents of Western Electric and A. T. & T.

- **Extra Features.** Two 2-contact output sockets for easy speaker connections; separate pilot light and switch; fully fused for protection; has diagram on amplifier base plate; highest quality heavy-duty 12" P.M. Dynamics; finest phono components—78 R.P.M. motor and offset-head pickup; in one of the most handsome Amplifier cases ever built.

• **Complete 15 Watt Mobile System.** Includes: 1—Knight 15 Watt 6 Volt—110 volt Amplifier with built-in phono equipment; choice of Shure Crystal Microphone with Shoulder Mount or Desk Stand (specify which) and 25 foot cable and plug; 2—12" P.M. Dynamic Speakers with 30 foot cables and plugs mounted in 2 steel-aluminum projectors; R.C.A. tube kit; complete instructions. For 110 volts A.C., 60 cycles, or 6 volts D.C. Shpg. wt., 75 lbs.

A12213. List Price, \$135.00. **\$6750**
NET CASH PRICE.....

Terms: \$6.75 down, \$8.36 monthly for 8 months.

If system above is desired with Universal Crystal Hand-Mike, deduct \$1.50 from above price. Hand-Mike is ideal for all close-talking requirements, for sound trucks, sports announcing, etc.

A12212. 15 Watt Mobile Amplifier Only. Has all features described above, including phono top, but less tubes. **\$3950**

List Price, \$79.50. NET PRICE.....

A12160. R.C.A. Tube Kit. NET.....\$3.66

MIKE-PHONO MIXER



UNIVERSAL MIKE INPUT

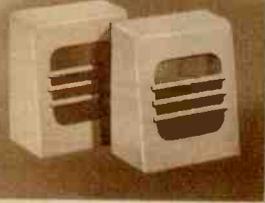


BASS-TREBLE CONTROL



Knight

E. R. P. I. LICENSED



Inclined Baffles. For excellent tonal results and convenience in installation, we recommend the use of the attractive de luxe fabricoid-covered wall baffles illustrated above. Solidly constructed; good-looking and efficient. See full description of baffle A 10934 on page 100.



Remote Control. Optional with Mobile System. A compact new cable-connected device which will regulate volume level output of amplifier from remote distances up to 1000 feet from the amplifier. Available at small extra cost. An invaluable device for dramatic presentations, outdoor work, etc.

GROUP 1

GROUP 2

CHOICE OF MICROPHONES

In place of the microphones illustrated with system above, you can have your choice of microphones from the following two groups; Group 1: **A**—Astatic T-3 Crystal, **B**—Electro-Voice V-1 Velocity; Group 2: **D**—Brush "AP" Crystal, **E**—Knight Velocity, **F**—American D5-T Dynamic. For complete descriptions of these microphones, see pages 94-96.



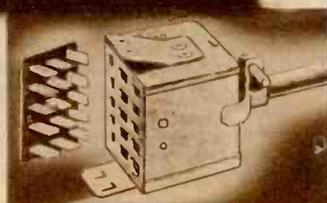
Monitor Speaker, Optional—A 3 1/2" P. M. Speaker mounted on a grille frame which will exactly fit in V. I. meter cut-out on front panel. Allows audible check of tone quality and blending. Available at small extra cost. You can use either the Monitor Speaker or the V.I. meter for checking the output. You will find each valuable.



Dual Tone Controls are provided to give individual bass or treble emphasis and to aid in compensating for varying acoustical conditions. Individual controls have no effect on one another. Another extra-value feature which is a significant advance in P.A. design. It creates a high degree of tonal excellence which must be heard to be appreciated.



Speaker Selector Switch permits instant impedance matching of additional speakers to the amplifier. No figuring or guessing—just set the switch at the position where volume and tone quality are the best. Impedances available are 2, 4, 8, 16, 500 ohms to match all standard voice coils. 500 ohm tap is for use with extremely long speaker lines. You will like this big feature.

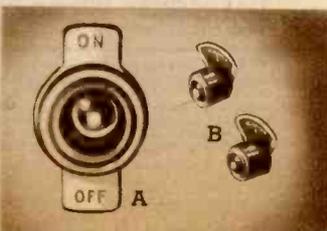


6 Volts or 110 Volts in a jiffy! Just substitute the A. C. cord for the battery cable, and you're ready to work from A.C. Plugs are trouble-free heavy-duty type; impossible to make a wrong connection; with locking feature. Here is the last word in P.A. versatility coupled with unusual convenience. No other 6 volt-110 volt system offers such ease of operation with such fine results.



Quality Phono Equipment is used throughout. Motor maintains constant 78 R. P. M. speed on either 110 volts A. C. or 6 volts D. C. A high-quality balanced-tracking Shure Crystal Pickup is employed for exceptional fidelity. The motor has a separate control switch. The entire phono equipment is designed for maximum convenience. It has the ruggedness and dependability required for heavy-duty P.A. work.

A. Stand-By Switch. Saves battery by conserving current drain, yet keeps filaments ready for operation. Reduces battery current drain by nearly one-half during "stand-by" periods. A real economy feature that is highly desirable in a Mobile P.A. System. **B. Silencer Jacks.** Check hum when microphone plug is removed; locking-type; prevents accidental disconnection of microphone plug. A valuable and exclusive new P.A. feature.



30 WATT De Luxe MOBILE SYSTEM

**WORKS ON A.C. OR 6 VOLTS
NO POWER PACK REQUIRED**



6 VOLTS

The new Knight 30 Watt Mobile System is a single unit with completely built-in 6 volt and 110 volt power supplies. No external power converters are required. It is only necessary to connect to a 110 volt A. C. source or to any 6 volt storage battery for instant, dependable operation. Operates from either 6 volts D.C. or 110 volts A.C. with equal efficiency.



110 A.C.

6 VOLTS D.C. OR 110 VOLTS A.C. IN A JIFFY!

IDEAL FOR:

- Sporting Events
- Advertising
- Road Shows
- Missionary Work
- Army Manuevers
- Dance Bands
- Traffic Control
- Skating Rinks
- Airports—Depots
- Political Rallies
- Street Parades
- Fire Fighting
- Carnivals
- Circus Units
- C. C. C. Camps
- Regattas

- 110 V. A. C. or 6 V.
- 4 Input Channels
- Electronic Mixing
- Dual Tone Controls
- Speaker Selector
- Jensen Speakers
- Beam Power Tubes
- Inverse Feedback
- Built-In Phono
- Stand-by Switch
- Remote Control
- Universal Output
- Silencer Jacks
- Fully Fused

The most versatile Mobile Sound System on the market! Here's the last word in ease of operation, in high-power, in full-bodied faithful tone. Here's ruggedness to meet any P. A. requirement, anywhere, anytime—here's quality coupled with features you can't get in any other mobile system at any price!

Versatile. The 30 Watt Mobile System operates entirely and directly from any 6 volt storage battery where A. C. is not available, or may be operated from any 110 volt, 60 cycle A. C. outlet. Delivers full 30 watts output with excellent tonal fidelity. Ideal for use indoors or outdoors. Unrivalled in the field for versatility, power and quality.

Four Input Channels. Accommodates any two high-impedance microphones and one additional crystal or magnetic type phono pickup. Individual volume controls for mike inputs and dual phono fader permit blending or "mixing" action as desired.

Inverse Feedback. In new and improved form; permits operation at higher output levels by minimizing distortion and hum and improving tone quality.

Dual Tone Controls. Separate controls provide bass or treble emphasis as desired and aid in reducing feedback.

Remote Control. Amplifier has special jack for accommodating Remote Control device which permits regulation of volume level output from remote distance as far as 1000 feet from the amplifier. Permits operator to control from audience.

Speaker Selector Switch. Permits instant selection of voice or speaker line output impedance to match any number of additional speakers to the amplifier. No guessing—no bother—just set where quality is best.

AMPLIFIER SPECIFICATIONS

Output: Full 30 watts output, undistorted; hum is inaudible; **Output Impedance:** 2, 4, 6, 8, 16, and 500 ohms on speaker selector switch; **For P. M. Speakers:** no field excitation provided; **Input Channels:** Four, two for high-gain mikes, each with individual volume controls, two for phono on fader control (one external phono may be used in addition to built-in phono top); **Tone Controls:** Two, attenuator type, one for treble, one for bass; **Gain:** On microphone, 130 DB., on phono, 75 DB.; **Frequency Response:** 30-12,000 C. P. S. (on amplifier); **Tubes:** 2-6J7, 1-6N7, 1-6L7, 1-6C8G, 2-6L6G, 2-6X5G; **Line Drain:** 140 watts. A. C., 24 Amps. D. C.; **Fused:** Fully fused on both 6 V. D.C. and 110 V. A.C.; **Standby Switch:** To conserve battery drain; **Amplifier Size:** 20 3/4" x 13 1/4" x 15"; **E. R. P. I. Licensed:** Fully licensed by E. R. P. I., under patents of Western Electric and A. T. & T.

V. I. Meter and Monitor. Optional equipment. Illuminated V. I. Meter affords visual means of determining output directly in decibels. Monitor Speaker (2" P. M. dynamic mounted in grille to fit V. I. meter cutout on panel) permits audible check of output, tone quality and "mixing."

Compact Single Unit Design. The entire 30 Watt De Luxe Mobile System is built around the compact single amplifier unit. Amplifier, high-grade single-speed motor, sturdy crystal pickup, 6 volt and 110 volt power supplies, and all controls and connecting receptacles are assembled in one compact modern steel case, 20 3/4" x 13 1/4" x 15".

Highest Quality Accessories. Two genuine 12-inch Jensen type P.M. 12H dynamic speakers are included for finest reproduction. A high-quality single-speed synchronous phono motor with 12-inch turntable is incorporated. Constant 78 R.P.M. type whether used from 6 volts D.C. or 110 volts A.C. High-grade Shure Crystal Pickup has excellent response.

Extra Features. Has stand-by Economizer Switch; Silencer Jacks check hum when mike plug is removed; Two-contact Dual Speaker Outlets; Fused on 6 and 110 volts; diagram on base plate; Headphone Monitor Jacks.

6 Volts or 110 Volts in a Jiffy. Anyone can change the Knight 30 Watt De Luxe System from 6 volts to 110 volts in an instant.

Complete De Luxe Universal System. Includes: 1—Knight 30 Watt High-Gain Amplifier with A.C. and battery cables, built-in phonograph motor and pickup, 6 volt and 110 volt power supplies, 1—Knight-Asatic Dynamic Microphone with 25 foot cord and polarized plug (or choose any type mike described in Group 1 on opposite page 82. Shoulder Mount will be supplied—otherwise Knight-Asatic Mike with Mount will be shipped); 2—Jensen 12-inch P.M. 12H dynamic speakers with generous 30 foot rubber-covered cords and 2-prong plugs; R.C.A. tube kit, and instructions. For 6 volts D.C. or 110 volt A.C. 60 cycles. Shpg. wt., 110 lbs.

A12231. Complete 30 Watt Mobile System (less V. I. meter and steel projectors). **\$99.50**

List Price, \$200.00.

CASH PRICE.....

Terms: \$9.95 down, \$12.32 monthly for 8 mo.

A12232. Complete 30 Watt Mobile System as described, but with "Uniplex" Crystal Mike (or choose any type mike in Group 2—Shoulder Mount will be furnished—otherwise "Uniplex" with mount will be shipped). Less meter and steel projectors. **\$106.75**

List Price, \$215.00.

CASH PRICE.....

Terms: \$10.67 down, \$13.22 mo. for 8 mo.

A12177. Steel Projector with mounting bracket. EACH..... \$8.19

A10934. Fabricoid Baffle. EACH..... \$2.75

A12182. V. I. Meter. NET..... 4.50

A12183. Monitor Speaker. NET..... 3.95

A12181. Remote Control. NET..... 4.85

A12515. Speaker Car-Top Platform. NET..... \$4.35

For A10550 Floor Stand in place of Shoulder Mount, add \$1.81.



Marine Horns. Recommended for use where maximum ruggedness and absolute weather-proof performance is necessary. See page 99 for complete description. If Marine Horns with units and mounting brackets are desired with above system, in place of Jensen speakers, add \$22.95 for each.

KNIGHT 30 WATT PORTABLE SYSTEM

The Knight 30 Watt Mobile Sound System is also available in convenient portable form as illustrated at right. Includes all of the advanced features described above. A highly desirable outfit, ideal for rental installations. Makes possible speedy installation and operation and offers versatile application. Entirely self-contained in two compact cases—one for amplifier (21 1/2" x 16" x 13 1/4"), the other a split-case for the speakers (21 1/2" x 13 1/4" x 8 1/2"). This system can be set up instantly for operation. The complete Knight 30 Watt Mobile Portable System includes: 1—Knight 30 Watt Amplifier, turntable and pickup in portable carrying case; 2—Jensen 12" P.M. 12H Permanent Magnet Dynamic Speakers with 30 foot cables and plugs mounted in split-case; 1—Shure "Uniplex" Crystal Microphone with 25 foot cable and plugs; 1—Knight De Luxe collapsible floor stand; R. C. A. tubes; and instructions. Shpg. wt., 130 lbs.

A12233. Complete (less V. I. meter).

List, \$245.00.

CASH PRICE.....

\$122.50

Terms: \$12.25 down, \$15.16 monthly for 8 months.

For optional equipment (V. I. meter, Monitor, Baffles, Projectors, etc.) see complete listing at right above. Take advantage of our convenient and attractive Time Payment Plan. Own The Knight 30 Watt Mobile System now, and put it to work earning profits for you. See page 69 for full details of our liberal Time Payment Plan.



E.R.P.I. LICENSED



KNIGHT 20 WATT PHONO AMPLIFIER

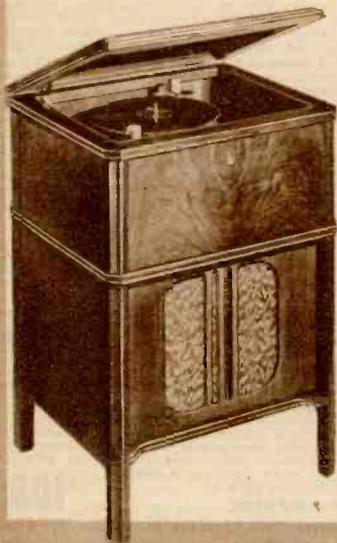
Recommended for Homes • Schools • Lodges • Music Dealers • Recording Studios • Advertising Agencies • Sound Effects • Community Centers • Small Rinks • Mortuaries • For High Fidelity Phono Reproduction

Here is a truly deluxe, high-fidelity amplifier, designed to fill every requirement for rich, full-bodied tonal reproduction of all types of recorded music, from "Swing" to "Symphonic." Incorporating the most desirable of advanced features in design and engineering together with the very finest of parts and craftsmanship, this phono amplifier will find a host of applications in providing true life-like reproduction of all commercial or transcription type records.

SPECIFICATIONS

Input: Two, for any high impedance type crystal or magnetic pickups. **Gain:** 80 DB. **Volume Control:** Fader type, controlling one input channel on each side of zero position center. **Input Connectors:** Two twin tip jacks. **Tone Controls:** Two, one for Bass and one for Treble emphasis. **Outputs:** 2, 4, 6, 8, 16, and 500 ohms available at two standard two-prong sockets with instant selection of impedance by Speaker Selector switch. **Power Source:** 110 volts, 60 cycles. **Line Drain:** 85 watts. **Tubes:** 1—6L7, 1—6CB6, 2—6L6G, 1—5Z3. **Size:** 17 1/4 x 9 1/4 x 11 1/4". Also incorporates: Inverse Feedback; Provision for addition of Remote Control; A.C. switch and jeweled pilot light on front panel; Diagram on base plate. Licensed by Electrical Research Products, Inc., under patent arrangements with Western Electric Co. and A. T. & T. The incorporation of Inverse Feedback in this fine phono amplifier permits greater power output with less distortion and hum and achieves a higher fidelity of tone. Single fader type volume control for two phono pickups, with zero center position, is extremely valuable in shifting from one turntable to another for uninterrupted playing a series of records or for background and sound effects. Operates from 110 volts, 60 cycles. Shpg. wt., 25 lbs. **A12123. 20 Watt Phono Amplifier only, less tubes, and Remote Control. List, \$54.50. YOUR PRICE, \$26.50**

WITH
R.C.A.
OR
GARRARD
AUTOMATIC
CHANGER



A magnificent musical instrument of striking beauty, perfectly suited for the most luxurious setting. The harmoniously proportioned hand-rubbed walnut console presents an appearance in perfect accord with the rich, full-toned performance of the instrument. Here is more than ordinary quality in a record-reproducing instrument.

COMPLETE 20 WATT PLAYER

AMPLIFIER, SPEAKER, CHANGER IN CONSOLE

Here is the unit you have been waiting for—a complete high-fidelity electric phonograph with automatic record changer, amplifier and speaker, completely assembled in a beautiful console cabinet. Will enable you to enjoy phonograph entertainment at its best, with superb, flawless reproduction that brings to life the performance of the recording artists. Incorporates the 20 watt phono amplifier described above, with R.C.A. tubes—not just an ordinary amplifier, but one designed exclusively for fine high-fidelity reproduction of all types of recorded sound. Develops a full 20 watts of undistorted and hum-free output, and matched with a genuine Jensen PM-12H permanent-magnet dynamic speaker of the very finest type, brings you smooth and uniform frequency response from heavy bass notes to an incredibly high treble range. Completely housed in a handsome console, and equipped with an R.C.A. Automatic Record Changer of the very latest type that plays all 10" or 12" records (see p. 91). Cabinet is 31" high, 21" wide, 16 1/2" deep. For 110 volts, 60 cycles. Shpg. wt., 94 lbs. **A15208. Console Phonograph with R.C.A. Changer. NET, \$89.50**

A15209. Console Phonograph as above, but with Garrard Automatic Record Changer (see page 91) instead of R.C.A. changer. Complete with tubes. For 110 volts, 60 cycles A.C. Shpg. wt., 90 lbs. NET, \$99.50

Knight 30 WATT BOOSTER



ADD MORE WATTS WITH THIS LOW-COST POWER STAGE

Offered exclusively by ALLIED, an ideal Power Stage unit for use with any type of amplifier. Especially suitable for the 1940 Knight Amplifiers which are equipped with power stage driver taps. You can add full 30 watts power inexpensively to your present equipment to take care of an increased number of speakers for larger installations. For example, if your present amplifier is rated at 30 watts and you add this new 30 watt Booster Amplifier, you get full 60 watts at low cost. The new Knight 30 Watt Booster Amplifier is entirely self-contained in an attractive modern-styled case, 17 1/4 x 9 1/4 x 11 1/4", and finished in two-tone tan and brown. Easy to hook up to any amplifier. Has built-in driver stage which requires only signal voltage from amplifier for excitation. Draws no power from amplifier since it makes use of an ingenious bridging type input. Uses the following tubes: 2—6SJ7, 2—6L6G, 1—5Z3. Beam-power output with Inverse Feedback results in greater power with less distortion, hum and noise. Also improves tone quality appreciably. Frequency response is from 40 to 10,000 cycles. Front panel holds A.C. switch, jeweled pilot light, and volume control; has provision for installing Volume Level Meter or Monitor Speaker, if desired. Also includes Speaker Selector Switch which makes available 2, 4, 6, 8, 16 or 500 ohm output taps at the two standard two-contact or 500 ohm output taps at the two standard two-contact speaker receptacles. Requires only a single conductor shielded cable for connection to driver amplifier. Any E.M. dynamic or self-excited dynamic speaker may be used. **A12133. 30 Watt Booster Amplifier, \$25.85**

Shpg. wt., 28 lbs. List, \$52.50. **YOUR PRICE**
A12162. R.C.A. Tube Kit. NET, \$3.49
A12182. Volume Level Meter. NET, 4.50
A12183. Monitor Speaker. NET, 3.95



USE UP TO
10 STATIONS

Knight INTERCOM- MUNICATION SYSTEMS

These ideal systems are automatic, economical, and easy to install. They provide dependable, instant communication at low cost. Available in a wide selection of systems to meet practically every intercommunication requirement.



USE UP TO
5 STATIONS



DE LUXE CALL SYSTEMS

2½ WATT MASTER SELECTIVE SYSTEM. An entirely new, licensed Intercommunication System which permits instant, direct contact between adjacent rooms, offices, departments, etc., in all types of business institutions and factories. System consists of Master station and as many as 10 Sub-station units. Master station can select and talk in complete privacy with any one sub-station, or all at once. Sub-stations can call Master station but cannot communicate with other Sub-stations. Easy to operate; press small lever to talk and release to listen. High-grade amplifier is built into Master station unit. Works on 110 volts A.C. or D.C. Stations may be any distance apart (up to 2,000 feet) and are connected by inconspicuous cable.

A12342. Master Station unit for 10 stations. \$2450
Complete with tubes, junction box, and instructions.

YOUR NET PRICE.

A12345. Master Station unit as above, but with privacy earphone. NET \$31.95

A12343. Sub-station unit. NET EACH. \$7.95

A12344. Connecting Cable. PER 10 FEET. 40c

8 WATT MASTER SELECTIVE. Similar to Master Selective System described above, but with audio power of full 8 watts. Ideally suited for paging purposes in all types of business institutions; fine as calling and paging system in small plants or manufacturing buildings where noise level is moderately low. Complete system may consist of Master Station unit and up to as many as 10 sub-stations.

A12326. Master Station unit for 10 stations. Complete with tubes, junction box and instructions. \$4525

YOUR NET PRICE.

A12328. Sub-station unit. NET EACH. \$11.95

A12344. Connecting Cable. PER 10 FEET. 40c

SUPER-SELECTIVE SYSTEM. Similar to unit above, but designed so that up to 10 stations may be used; permits as many as five private 2-way conversations to be conducted simultaneously without interference, cross-talk or eavesdropping. Operates even when Sub-stations are as much as 3,000 feet apart. Operates from 110 volts, A.C. or D.C. Unusually economical; current consumed costs as little as 15c per month. In attractive walnut cabinet, size 11¼" x 6" x 7¼". Easily installed.

A12346. Master Station Unit for 10 stations. Complete with tubes, junction box, and instructions. \$2450

YOUR NET PRICE.

A12347. Master Station as above, but with privacy earphone. NET \$31.95

A12348. Connecting Cable. PER 10 FEET. 75c

STANDARD CALL SYSTEMS

MASTER SELECTIVE SYSTEM. A new Inter-communication System offering many fine features at a remarkably low price. This licensed system incorporates a Master station unit and as many as five Sub-stations. Master Station can call any one of the individual Sub-stations or all at one time. Permits instant, automatic, direct contact between adjacent rooms, offices, etc. Essential to all modern businesses, homes, and institutions. Much faster and more convenient than telephone systems; permits instant contact between two (or more) points and the location of the Master Station. Features include: volume control, on-off switch, station selector switch, P.M. Dynamic Microphone-speakers in each unit; faithful voice reproduction; economical operation, etc. Junction box not required for Master Station. Operates from 110 volts A.C. or D.C. Master Station unit is housed in attractive walnut cabinet while Sub-station units are housed in metal cabinets, each equipped with call switch. Sub-stations can call Master Station but cannot call other Sub-stations. Sub-stations can also communicate with the Master Station without operating the switch.

A12337. Master Station for 5 Sub-stations. Complete with tubes and instructions. \$1395

YOUR SPECIAL NET PRICE.

A12338. Sub-station unit. NET EACH. \$4.95

A12339. Connecting cable. NET PER 10 FEET. 19c

SUPER-SELECTIVE SYSTEM. Similar to the Master System above, but designed to provide maximum flexibility of operation. Consists of a number of Super-Selective station units (up to a total of 5) each of which may hold private conversation with any other station. When five stations are used, two separate private conversations may be held without interference, cross-talk, or eavesdropping. Dependable amplifier is built into each station to permit perfect operation at any distance up to 3,000 feet between stations. Ideal for use between offices, or office and various other departments. Maximum of five stations may be used. Operate from 110 volts A.C. or D.C.; exceedingly economical to operate; costs only a few pennies per month for current consumed. In attractive walnut cabinet with on-off switch, station selector switch, and press-to-talk switch on front panel.

A12324. Super-Selective Station Unit, complete. \$1645

YOUR NET PRICE.

A12325. Connecting cable for Super-Selective Station Units. PER 10 FEET. NET 50c

SPECIAL SYSTEMS CAN BE MADE UP FOR YOUR REQUIREMENTS. WRITE US, GIVING DETAILS OF YOUR NEEDS, AND YOU WILL RECEIVE OUR HELP AND PRICES PROMPTLY.

Knight TRANSCRIPTION PLAYER

This new 1940 instrument is the very finest high quality, truly high-fidelity transcription player made today. Ideal for schools and colleges, Broadcasting stations, recording studios, advertising agencies, and business firms who demand the finest phonograph record reproduction. Has 16" balanced cast aluminum turntable for all records and transcriptions up to 16" commercial discs, and Astatic 12" transcription type pickup. The built-in amplifier is conservatively rated at full 4 watts undistorted output. A Jensen 10" P.M. Dynamic speaker is mounted in the lid with more than 3½ sq. ft. of baffle area. Speaker uses oversize Alnico magnet and has special cone for proper bass emphasis. Compact remote control box with 30-foot weatherproof cable and plug permits turning phonograph motor on and off and controlling volume of amplifier at any distance within 30 feet of player. A heavy-duty Green Flyer induction motor of dual-speed type operates at uniform, unvarying speeds of 33½ or 78 R.P.M. Motor operates with equal efficiency from 110 volts A.C. or D.C., 25 or 60 cycles. Built-in Tone Control on amplifier unit permits varying emphasis for best reproduction of voice or music. Loud-speaker and lid may be detached from case and set up wherever desired; supplied with 30-foot weatherproof cable. Record chamber holds 5 discs up to 16" size and stores turntable when case is closed. Sturdy, reinforced black leatherette-covered case measures only 16½" x 16½" x 8½". Weight, only 38 lbs. net. For universal operation from 110 volts, 25-60 cycles A.C. or D.C. Unsurpassed for faithful tonal reproduction; equally valuable for either music or speech recordings. Sturdily constructed to take hard usage. Compact and convenient for true portability.

A12360. Deluxe Model. NET \$7995

A12361. Economy Model. Similar to above but less remote control. With 12" turntable. For 110 volts, 60 cycles A.C. only. \$62.50

NET.

A12362. Standard Model. Same as Economy Model with 12" turntable and less remote control, but for 110 volts A.C. or D.C. \$66.50

NET.



Knight MUSICAL INSTRUMENT AMPLIFIER



The latest development in electrical amplification for musical instruments—offering distinctive new musical effects. "Swing" and "smooth" bands both acclaim the electrical instrument amplifier. Ideal for use with the guitar or any other string or reed instrument. This amplifier helps to put new pep into swing arrangements, to bring up feature passages, for fades, overtones, treble endings, etc. So easy to attach and to operate that even a child can do it. The new **KNIGHT** Electrical Instrument Amplifier consists of a **KNIGHT 8 Watt High-Gain Portable Sound System** with the **Amperite Model SKH** Kontakt instrument pickup with foot-pedal volume control supplied in place of conventional microphone. Simply place the tiny inconspicuous pick-up unit under the strings of any instrument, plug the tube from the foot-operated volume control into the amplifier, and you're all set to produce practically any effect you desire.

FOR USE WITH ANY INSTRUMENT

A small slip of adhesive tape or special clamp (see P. 96) holds pickup securely in place. With a flip of the fingers it is instantly removed for portable use or for attachment to another instrument if desired. The **Foot-pedal Control** leaves both hands free to play; it regulates volume as desired and makes it easy to get tremolo, fading effects, etc. The entire unit is especially designed for easy operation, and no technical knowledge is required. Delivers full 8 watts output to carry solo features out above even a large orchestra. Operates from any 110 volt 50-60 cycle AC outlet. Full 8" dynamic speaker mounted in portable case is equipped with 25 foot cable permitting operation at some distance from amplifier unit. Supplied complete, ready to operate, including RCA tubes, amplifier and carrying case with speaker, and **Amperite Model SKH** Kontakt pickup with **Foot-pedal Volume Control** and 25 foot cord. Ideal for all orchestra and broadcasting work; used by leading soloists everywhere.

A12100. Complete System as described.
List, \$67.50.

\$33⁹⁵

YOUR NET PRICE

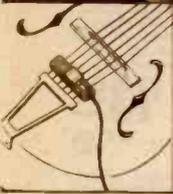
30 WATT MUSICAL INSTRUMENT MODEL

A new and more powerful musical instrument amplifier, with ample volume for use in the largest auditoriums. Full 30 watts output will adequately serve the largest audience either indoors or outdoors. Consists of a **Knigh 30 watt "Economy"** amplifier with tubes; **Amperite Professional Model KTH** Kontakt pickup with foot-pedal type volume control and 25 foot cable; two heavy-duty 12" P.M. dynamic speakers, each with 30 foot cable and plug, and complete instructions. Amplifier is mounted in sturdy luggage type carrying case; speakers are mounted in single dual type portable case. For 110 volts, 60 cycles.

A12134. 30 Watt Model complete.
List, \$130.00.

\$64⁵⁰

NET



Foot-pedal volume control leaves hands perfectly free to play. Unusual effects and increase or decrease of volume are obtained simply by pressing on pedal. Pick-up unit slips under instrument strings; does not mar instrument and is perfectly inconspicuous. A definite asset to the musician.



FOR CHURCH, THEATER, SCHOOL



Knigh HEARING-AID SYSTEM

IDEAL FOR ALL MULTIPLE HEARING-AID INSTALLATIONS—EASY TO INSTALL

Here, for the first time, is a truly fine high-fidelity amplifying system for use in churches, theatres, schools, lodges, etc., to bring new pleasure and enjoyment to hard-of-hearing members of any audience, at remarkably low cost. Extremely sensitive; picks up all sound, whether voice or music; is capable of reproducing in crisp, clear, life-like tones with absolute freedom from annoying hum, noise or buzz. Operates from 110 volt, 60 cycle AC line; no batteries to replace.

EASILY INSTALLED ANYWHERE

Can be quickly installed anywhere. Installation is unusually simple and can be made by anyone from clear, easy-to-follow instructions provided; no technical knowledge is required. Just place amplifier unit in any convenient spot, and plug into nearby wall outlet. Place special sound pickup unit in desired location and insert plug at end of 25 foot cable into amplifier input socket. All complicated wiring for individual hearing aid units is eliminated. It is only necessary to run a single two-conductor cable or a single conductor shielded wire from the plug-in type output socket of amplifier to the seats where outlets are desired, and connect a volume control box at each seat location. Volume for the entire system may be pre-set at the amplifier by means of amplifier volume control; individual listeners may vary volume to suit their own requirements by means of the small volume control boxes.

HANDLES UP TO 50 EARPHONE UNITS

The **Knigh Hearing Aid System** delivers a full 8 watts of undistorted power without hum or extraneous noise. Will adequately handle up to 50 earphone units of the crystal type. (See listings at left.) Amplifier has polarized input and output sockets; impossible to hook up wrong. Has tone control and volume control, AC switch and pilot light on front panel. Sound pickup unit is special high sensitivity static velocity type with wide-range frequency response; equipped with 25 foot cord and plug. Amplifier is housed in modern metal case finished in grey-crackle with black base. For 110 volts, 60 cycles.

A12180. Knigh Hearing Aid System as described, with tubes and instructions. (Select accessories at left.)

\$21²⁵

YOUR PRICE



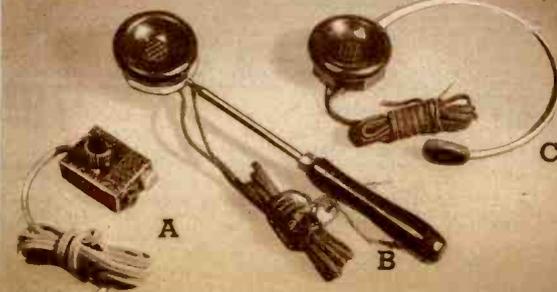
HEARING-AID ACCESSORIES

Highest quality. For use with the **Knigh Hearing-aid amplifier** or any similar unit. Earphones are crystal type and provide crisp reproduction without distortion. Volume control box permits individual listeners to adjust volume to suit individual requirements.

A12178. Fig. C. Crystal Earphone with headband and 4 foot cord.
NET.....\$4.41

A12179. Fig. B. Lorgnette Type Crystal Earphone with 4 foot cord.
NET.....\$4.41

A12089. Fig. A. Hearing-Aid Volume Control Box. Only 1 1/4x2x2 1/4". Tip jacks for phone cords and 50,000 ohm volume control. Brown crystalline finish. With 4 foot cord.
NET EACH.....\$1.59





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. Especially designed by ALLIED's engineers to provide low-cost record reproduction with highest quality; sacrifices nothing; uses the very finest of materials and workmanship. Can be used for building compact record or transcription-playing devices either for portable use or for permanent installation. Also suitable for use in modernizing old phono equipment in order to achieve full realistic reproduction of all types of recordings of either voice or music. The Knight 4 Watt AC-DC Amplifier is extremely compact in size; 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, more than enough for the home or for small audience groups up to approximately 250 persons.

PHONO REPRODUCTION AT LOW COST

The Knight 4 Watt AC-DC Amplifier has input circuit with tip-jacks designed for high-impedance crystal pickup. Output circuit is high-impedance and designed to operate with a Permanent Magnet dynamic speaker having an output transformer to match the 2 beam-power 25L6G tubes in push-pull. Volume control on front is equipped with "on-off" switch; tone control permits accentuation of treble or bass ranges as desired. Can be quickly and easily installed. Select one of the many fine crystal pickups and P.M. speakers listed in this catalog, and with the Knight 4 Watt A.C.-D.C. Amplifier and a phono motor, you can build a fine record-playing unit that will provide endless hours of high-quality entertainment.

A10055. Knight 4 Watt A.C.-D.C. Amplifier, less tubes and speaker. Shpg. wt., 8 lbs. **\$5.85**
NET.....

A10056. R.C.A. Tube Kit for above. NET.....\$2.85

Knight VOLUME EXPANDER



A complete, self-contained, self-powered unit for use with any amplifier lacking an effective volume expander. Designed to recreate the original tonal realism of phonograph recordings. When recordings are made, it is necessary to reduce the louder passages and to increase the level of the softer passages to avoid high surface noise and over-cutting in adjacent grooves. This results in a reduction of contrast and brilliance in the recording. To recreate the original rendition properly, the Volume Expander automatically builds up the louder phonograph passages to their true volume relationship, maintaining a correct balance between the loud and soft passages of the original recording. Brings out the exact original recorded rendition and actually minimizes surface noise. The Knight Volume Expander is compactly built; size, 11½" x 6¾" x 8¾". Uses the following tubes: 1—6N7G, 1—6K7G, 1—6H6G, 1—6X5G. Two controls are used, one for control of volume, the other to control the degree of expansion. Has tip-jack output to connect directly into the phonograph input circuit of any amplifier. Bring your present equipment up-to-date with the Knight Volume Expander and get de luxe phonograph record reproduction. The Knight Volume Expander is also suitable for coupling with high-grade home-type phonograph equipment not provided with this feature. Adds immeasurably to wider tonal response. Recommended for use with Knight Economy and Standard amplifiers to provide unsurpassed phonograph reproduction.

A9850. The Knight Volume Expander. For 110 Volts, 50-60 cycles A.C. Shpg. wt., 12 lbs. Less tubes. (Note: The Volume Expander is intended only for use as an accessory with record playing equipment; is not in itself a complete record-playing device.)
\$10.95
NET.....

A9851. R.C.A. Tube Kit. NET.....\$2.60



FAMOUS MEISSNER R.F. TUNERS

New, high-efficiency P.A. Tuners for every requirement. Ideal for monitoring of broadcast programs for School and Educational Broadcast reception and for use in off-the-air Recording Studios. Supplied in completely assembled and wired form, ready for immediate use.

MEISSNER UTILITY TUNER

A small, compact, general-purpose P.A. tuner unit for local as well as distant reception. Compactly designed to permit use with portable P.A. systems, or for use in permanent institutional sound systems. Uses a high-efficiency Tuned RF circuit having a total of four tuned circuits to provide greatest possible sensitivity with very good selectivity. Calibrated linear dial with 5¼" scale. Tuning range covers entire broadcast band from 530 KC to 1600 KC. RF coils are shielded Ferrocart type. Has full AVC with absolute minimum hum level. Built-in power supply is highly stabilized and filtered. Has monitoring jack on front panel for headphones; ingenious circuit prevents any disturbance to program when phones are plugged in or disconnected. Output impedance from low-gain coupling stage is 2500 and 10,000 ohms. Has both volume and tone controls. Housed in black wrinkle-finished steel cabinet 8¾"x8¾"x12½". Uses 3—6K7, 1—6H6, 1—6F8G, and 1—5Z4 tubes. For 110 volts, 60 cycles AC.

A9852. Meissner Utility Tuner, less tubes. **\$33.75**
NET.....

A9853. R.C.A. Tube Kit. NET.....\$4.00

MEISSNER HIGH-FIDELITY TUNER

Designed entirely for reception from local or nearby powerful broadcast stations. Has wide-band selectivity to permit true high-fidelity reception. Audio response is essentially flat from 40 to 10,000 cycles. Uses circuit of the band-pass TRF type and uses 2—6K7, 1—6H6, 1—6F8G, and 1—5Z4 tubes. Tuning range covers broadcast band only from 530 to 1600 KC. Has full AVC, monitoring phone jack, 4 gang condenser, and stabilized power supply. Linear calibrated 5¼" dial. Size: 8¾"x8¾"x12½". For 110 volts, 60 cycles AC.

A9854. Meissner High-Fidelity Tuner, less tubes. **\$39.50**
NET.....

A9855. R.C.A. Tube Kit. NET.....\$3.40

MEISSNER DUAL-BAND TUNER

A new tuner unit for distant broadcast or Short-Wave reception. Tuning range covers 540 to 1600 KC and 5.9 to 18.8 MC. Uses superhet circuit with separate RF stage on each band. Other features include monitor jack, Tuning Eye, stabilized power supply, AVC, 2500 and 10,000 ohm output, and 7¼" slide-rule dial. Uses 2—6K7, 1—6K8, 1—6H6, 1—6F8G, 1—5Z4, and 1—6G5 tubes. Size, 11"x14"x10". For 110 volts, 60 cycles.

A9865. Meissner Dual-Band Tuner, less tubes. **\$34.95**
NET.....

A9866. R.C.A. Tube Kit. NET.....\$4.70



NEW RAYTHEON VOLTAGE REGULATORS

Designed to provide constant AC line voltage to electrical devices where line voltage is irregular and varies over wide limits. When used with equipment such as P.A. amplifiers, recording equipment, telephone equipment and similar AC-operated units, it eliminates faulty and irregular operation due to line voltage changes. These Raytheon voltage regulators have proved effective over a period of years in many applications where constant unvarying line voltage is an important factor in correct operation of any type of AC-operated equipment. They automatically stabilize at any load within their rating. AC output voltage is held constant within plus or minus 1 percent. Will operate successfully with line variations over a range of from 95 to 130 volts, 60 cycles, single phase only. Regulating action is practically instantaneous and entirely automatic; there are no moving parts or adjustments. Housed in sturdy metal cases for complete protection at all times. May be used on 60 cycle supply lines wherever synchronous type electric clocks operate correctly. Please consult our Engineering Department, indicating the exact frequency of supply line, before ordering.

A11675. Model VR-2. Load capacity, 60 watts. Shpg. wt., 21 lbs. NET.....**\$27.00**

A11676. Model VR-3. Load capacity, 120 watts. Shpg. wt., 28 lbs. NET.....**\$36.00**

A11677. Model VR-4. Load capacity, 250 watts. Shpg. wt., 50 lbs. NET.....**\$57.50** 87

PRESTO MODEL J RECORDER

Here is a complete recorder, phonograph, and public-address system in one, offered at a very low price. Simple in construction, trouble-free, and easy to operate. Designed for instantaneous recording of voice or music. Ideal for use by business executives for making permanent records of business meetings or sales talks. Schools and agencies will find it useful in speech or dramatic correction work and similar applications. With the Presto Model J Recorder, you can make records at home of conversations, songs, stories, dramatic sketches, or you can record your favorite radio broadcast-microphone on a floor stand, that will pick up sounds as far as 20 feet away. Jack on front panel permits quick connection to radio set. Grooves and records on blank acetate discs up to 12" in diameter, at 100 lines per inch, outside to in (inside to out available on request), in one single operation. Turntable speed is standard 78 R.P.M. The Model J consists of a 12" balanced turntable with exclusive rubber-tire rim-drive; self-starting constant-speed motor; fine cutting head and playback pickup of magnetic type, each having range of 80 to 5000 cycles; 5 watt Class A amplifier; and dynamic speaker, all mounted in a single brown leatherette-covered carrying case. Amplifier control panel contains volume level meter, volume control for both recording and playback, on-off switch, and tone control. The Model J will also play back all commercial 10" and 12" phonograph records with exceptionally fine tone quality and volume. Complete recorder in case measures only 10" x 16" x 20". Weight only 38 lbs. For 110 volts, 60 cycles AC. Shpg. wt. 67 lbs. Additional descriptive literature and detailed information will be sent upon request.

A12371. Complete Model J Recorder with capacity microphone and floor stand. \$169.50 NET.

Time Payments: \$16.95 down, \$20.98 monthly for 8 months.

A12372. Model J Recorder as above but for 78 and 33 1/2 RPM. \$184.50 NET.

Time Payments: \$18.45 down, \$22.83 monthly for 8 months.

COMPLETE SELECTION OF RECORDING DISCS

RECORDING NEEDLES

Here is the largest selection of nationally famous recording discs available anywhere today. A L-IED'S stock of discs is complete and fast-moving—assuring you of fresh discs and prompt service all ways. Write for quantity prices.



SAPPHIRE NEEDLES

Precision-ground and polished, high quality sapphire cutting needles. Have long life and excellent fidelity. List, \$4.00. **EACH**

A2604. For pregrounded aluminum and composition discs. List, \$4.00. **EACH** \$2.20

A2605. For all Acetate or other semi-plastic discs. List, \$6.00. **EACH** \$3.40

A2601. Bent-shank sapphire. Cuts Aluminum at 30° angle when used in 2" acetate cutting head. List, \$7.50. **EACH** \$4.41

PRESTO GENUINE SAPPHIRE NEEDLES

A2606. Fig. A. Highest quality recording needles available. Accurately ground and polished. For use on acetate discs. **EACH** \$6.00

A2607. Fig. A. Same high-quality genuine sapphire needle as A2606, but with long shank to fit Presto Professional Recording head. **EACH** \$6.00

We resharpen Presto sapphire needles at \$2.00 each.

STEEL CUTTING NEEDLES

Flat shank steel needles. Special alloy steel hand-polished to a razor edge. For cutting acetate discs.

A2649. For 78 or 33 1/2 R. P. M. Fig. B. **PACKAGE OF 5, NET** 69c

A2641. Fig. B. Presto long shank for use in 1 1/8 head. **PKG. OF 3, NET** \$1.00

A2648. Presto short flat shank for use in Audak heads. **PKG. OF 3, NET** \$1.00

A8004. RCA Victor Steel Home Recording Needles. For pregrounded discs. **PKG. OF 8** 25c

RANGERTONE STELLITE CUTTING NEEDLES

A high-grade steel recording needle ground and polished with diamond dust to insure perfect cutting edge. Will cut all acetate blanks. Made of a special high tensile alloy called stellite; cuts clean grooves with minimum of surface noise.

A8020. Fig. B. **NET EACH** \$1.00

PLAYBACK NEEDLES

A8000. BAMBOO NEEDLES. **PKG. OF 100** 55c

A8001. KACTI NEEDLES. **PKG. OF 10** 29c

A8002. RED SHANK STEEL NEEDLES. **FIG. C.** For playing acetate discs. .002" at point. **PKG. OF 100** 38c

A8003. TRAILING SHOE NEEDLES. **100** 59c

A2622. "WALCO" SAPPHIRE NEEDLE. Lasts for years. Does not wear records. **EACH** 98c

RECORDING ACCESSORIES

Increased record life and reduced surface noise are assured by proper use of the lubricants listed below.

A8060. Cutting Lubricant. For application to disc surface before record is cut. Reduces surface noise by lowering friction of cutting stylus. For acetate or aluminum discs. In 2 oz. bottle. **NET** 29c

A8071. Record-Lube. For application to disc after cutting. Polishes and seals off surface to lengthen record life. In 2 ounce bottle. **NET** 21c

PRESTO "GREEN SEAL" DISCS

The finest recording disc for professional work, the Presto "Q" type "Green Seal" is widely used in recording studios, schools, etc. Has extra-heavy aluminum base with mirror-smooth coating. Low surface noise.

No.	Dia.	Thickness	NET
A8033	6"	.051"	\$0.40
A8034	8"	.051"	.55
A8035	10"	.051"	.80
A8036	12"	.051"	1.00
A8037	16"	.051"	1.80

A8165. 16" heavyweight disc for Broadcast stations. **NET** \$2.00

OVERSIZE Q GREEN SEAL DISCS

For making master records for processing. Discs are 1 1/2" larger than standard size records to allow for requirements of pressing process.

No.	Dia.	Thickness	NET
A8039	11 1/2"	.079"	\$1.25
A8190	13 1/2"	.079"	1.80
A8041	17 1/4"	.079"	3.00

"Q" ORANGE SEAL DISCS

Identical in every respect to Presto Q "Green Seal" discs except for slightly thinner aluminum base. Very low surface noise; good frequency response. Center is suitable for labeling.

No.	Dia.	Thickness	NET
A8150	6"	.036"	\$0.40
A8151	8"	.036"	.55
A8152	10"	.036"	.80
A8153	12"	.036"	1.00

Special Quantity Discounts to Schools, Universities, etc.

MAILING ENVELOPES

FOR RECORDING DISCS

Heavy envelopes with cardboard inserts, flap and sealing string.

A8190. For 6" disc. **Per Doz.** 50c

A8191. For 8" disc. **Per Doz.** 58c

A8192. For 10" disc. **Per Doz.** 80c

A8193. For 12" disc. **Doz.** \$1.14

ALUMINUM DISCS

Made of hardened aluminum alloy; mirror-polished. Assure maximum volume and life.

PREGROOVED

Double-faced discs; records on both sides.

No.	Dia.	NET
A8005	6"	16c
A8006	8"	23c
A8007	10"	39c
A8008	12"	55c

PLAIN

Extra-heavy blank aluminum. .036" thick.

No.	Dia.	NET
A8009	6"	15c
A8010	8"	20c
A8011	10"	29c
A8012	12"	42c

LOW-PRICED ACETATE DISCS

Inexpensive mirror-smooth acetate discs. Made of highest quality material. Low surface noise.

No.	Dia.	Thickness	NET
A8014	6"	.047"	35c
A8015	8"	.047"	45c
A8016	10"	.047"	58c
A8017	12"	.047"	72c
A8018	16"	.051"	\$1.32

RCA HOME-RECORDING DISCS

No.	Dia.	NET
A8055	6"	4.75c
A8056	10"	2.75c
A8057	12"	68c

FLEXIBLE PLASTIC RECORDING DISCS

A remarkably low-priced recording disc consisting of plastic surface on enduring bristol-board base. Uniform surface—low noise level and excellent frequency response. Non-inflammable. Cuts as easily as acetate. Ideal for schools, recording studios, etc.

No.	Dia.	LIST EACH	EACH lots 1-49	EACH lots 50-100
A8155	6"	20c	15c	13c
A8156	6"	30c	25c	20c
A8158	8"	45c	34c	30c
A8159	10"	60c	45c	40c
A8160	12"	75c	56c	50c

*One side discs. All others have double face coating for recording on both sides.

PRESTO MONOGRAM DISCS

A new economically-priced high-quality acetate disc ideally suited for use in Schools and Educational Institutions or wherever permanent recordings are not an absolute necessity. Mirror-smooth surface of Presto "Q" material is applied in an even coating to high-grade cardboard stock base. Total thickness, .05". Have center and one guide hole.

No.	Size	EACH	Quantity users—write for attractive special quantity discounts. We carry complete fresh stocks of Presto Monogram Discs in all sizes listed at left—ready for quick shipment.
A8185	6"	25c	
A8186	8"	40c	
A8187	10"	60c	
A8188	12"	75c	





PRESTO MODEL "G" RECORDER

The Presto Model G Recorder has been especially designed for use by schools, band leaders, agencies, in fact for everyone who requires a combination recorder-record-player and public-address system. Compactly designed. Magnetic cutting head is driven by positive worm gear system; cuts 100 lines per inch, outside to in (inside to out available on request). Turntable will accommodate any disc up to 12" size for recording or playback. Operates at either 78 or 33 1/2 R.P.M. Self-starting constant-speed motor with ingenious rubber tire drive prevents transmitting motor vibration to disc. Both cutting head and magnetic playback pickup have wide response from 80 to 5000 cycles. Has simple device for adjustment of cutting angle and pressure; cam lever to cutting head prevents accidental damage to cutting needle or disc. The Model G recorder contains a four-stage amplifier having a total gain of 120 db. and uses push-pull 2A3's in the output stage. Provides ample amplification for recording sounds at distances up to 30 feet from microphone; jack also permits radio connection for off-the-air recording. Complete recorder is housed in compact carrying case with separate dual case for the two 10" P. M. speakers. Write for complete descriptive literature. For 110 volts, 60 cycles A.C. Shpg. wt., 98 lbs.

A12366, Model G Recorder only, less microphone and floor stand. NET \$325.00

Time Payments: \$32.50 down, \$26.81 monthly for 12 months.

A12365, Model G Recorder complete with dynamic microphone and floor stand. NET \$374.00

Time Payments: \$37.40 down, \$30.87 monthly for 12 months.

PRESTO MODEL "Y" RECORDER

The Presto Model "Y" Recorder fills a long-felt need for a portable 16" transcription unit capable of producing high quality recordings. Ideal for schools, broadcasting stations, agencies, and recording studios. Will make records at 78 or 33 1/2 R. P. M. and cut any disc up to 17 1/2". In addition to recording, the Model "Y" plays all phonograph records and transcriptions up to 16". As a public-address system, it will provide ample sound for audiences up to 1000 persons. Exclusive Presto rim-drive turntable eliminates vibration; speed change is instantaneous. Cuts 112 lines per inch, either inside to out or outside to in, and permits cutting eccentric or spiral finish groove for use on automatic record changers. Type 1-B cutting head records uniformly from 50 to 6500 cycles; fully protected type feed mechanism. Recorder is housed in carrying case, 20 1/4" x 11" x 19 1/4". Separate case contains recording and playback amplifier and 10" P. M. speaker. Amplifier has gain of 125 DB. with 10 watts undistorted output. Equipped with high and low frequency equalizers, mixer for two microphones and phono, volume level meter, monitoring phone jack, and selector switch permitting instant use for recording, playback from built-in pickup, or public address. Amplifier and speaker case size, 23 1/4" x 12" x 20". Total weight is 155 lbs. For 110 volts, 60 cycles.

A12368, Model "Y" only, less microphone and floor stand. NET \$595.00

Time Payments: \$59.50 down, \$49.09 monthly for 12 months.

A12367, Model "Y" complete with dynamic microphone and floor stand. NET \$644.00

Time Payments: \$64.40 down, \$53.13 monthly for 12 months.



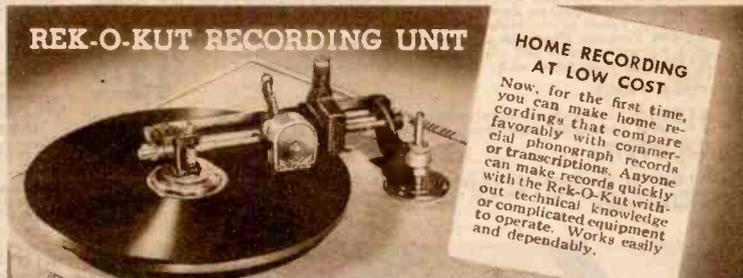
KNIGHT RECORDER

Designed to meet the demand for a high-quality recording unit at a price that everyone can afford. Will produce uniform, high-quality recordings with a minimum of experience in the art of recording. Schools and educational institutions can use the Knight Portable Recorder with present Public Address amplifier and microphone equipment; connections to recorder are simple and easy to make. Permits making records of speech or music for dramatic sketches, important radio programs, etc. It solves the problem of making home recordings of professional type at economical cost also. Used with a small amplifier and microphone, it enables you to make interesting records of your family and friends, or, connected to a radio set, will provide an easy method of building a complete musical library from important radio broadcasts. Flush-level massive turntable to accommodate all records and discs up to 12" size, is rim-driven by a powerful 110 volt 60 cycle motor; turntable is dynamically balanced for smooth vibrationless operation at constant and unvarying speed of 78 R.P.M. Positive drive type lead-screw is accurately machined and fully enclosed in protective housing. Horizontal type cutting head with range of 70 to 5000 cycles is automatically compensated for low-frequencies to insure faithful reproduction of all recorded sound; impedance is 500 Ohms. Has dual-action control to engage lead screw and lower cutting head to disc. Records at 100 lines per inch, inside to outside. Supplied complete including inductive-dynamic type playback pickup. Housed in leatherette-covered portable case. Less amplifier and microphone. **\$995.00**

A12381, NET PRICE
Time Payments: \$9.95 down, \$12.32 monthly for 8 months.

A12382, Knight Portable Recorder, as above, but for 78 and 33 1/2 R.P.M. Available to cut inside-to-outside, or outside-to-in; specify which is desired. NET \$131.93

Time Payments: \$13.19 down, \$16.33 monthly for 8 months.



REK-O-KUT RECORDING UNIT

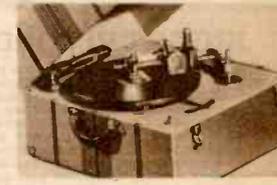
HOME RECORDING AT LOW COST
Now, for the first time, you can make home recordings that compare favorably with commercial phonograph records or transcriptions. Anyone can make records quickly with the Rek-O-Kut without technical knowledge or complicated equipment to operate. Works easily and dependably.

Now! Home Recording at a price everyone can afford! This excellent recording assembly will convert your present electric phonograph or Public Address system into a modern, highly efficient recording machine. Although best results will be obtained when a powerful recording type motor is employed, any good constant-speed phonograph motor and turntable may be used. Recordings may be made either through a microphone (not supplied) or from programs taken "off-the-air" with any good radio set. Cutting head requires only 2 watts of audio. Feed-screw moves cutting head from inside to outside to provide uniform recording pressure on disc. Cutting head is mounted on carriage at factory-set angle. Spring adjustment permits altering depth of cut.

12-INCH MODEL
Will record on any acetate or composition disc up to 12". The complete cutting head, carriage, drive mechanism, hardware, and complete instructions. Shpg. wt., 8 lbs.
A2590, 8 Ohms. \$28.96
A2591, 500 Ohms. NET EACH

16-INCH MODEL
Will record on any acetate or composition disc up to 16". The complete cutting head, carriage and drive mechanism, hardware and full instructions. Shpg. wt., 11 lbs.
A2592, 8 Ohms. \$35.28
A2593, 500 Ohm. NET EACH

PORTABLE HOME RECORDER
A complete portable recording unit for home or semi-professional use. Consists of a 12-inch model Rek-O-Kut recording unit as described above, complete with recording type 78 RPM motor with 12" balanced turntable, and high-grade magnetic type playback pickup. Can be used with any good amplifier or radio set which will supply 2 or more watts of audio for driving the cutting head. Grooves and records all acetate discs in one operation; cuts inside to out. Completely assembled in compact carrying case, 17 1/4" x 17 1/4" x 12 1/4". For 110 volts, 60 cycles A.C. **\$49.75**
A2594, NET



ESSENTIALS OF RECORDING

A practical manual on instantaneous recording. Written by ALLIED'S Sound engineers in easy-to-understand language, it completely covers the subject of recording in all its phases. Tells you what equipment is necessary for home recording or Studio work, and how to use and maintain the equipment. Helps you choose equipment exactly suited to your requirements; tells all about recording methods, cutting equipment, discs, etc. 20 pages. **10c**





POPULAR PORTABLE PHONOS

A dependable portable electric phonograph, suitable for use with any amplifier or radio set having a high-impedance phono input circuit. Incorporates a high-grade single speed 78 R.P.M. motor, self-starting synchronous type; maintains constant speed regardless of line voltage variations. Equipped with 12-inch turntable. Uses a high-impedance Knight Astatic off-set head type Crystal pickup which has excellent frequency response. Pickup cord is equipped with convenient phone tip ends. Includes built-in volume control. Has needle cup and pickup arm rest. The entire assembly is housed in a compact, sturdy case which measures 17 3/4" x 13 3/4" x 7" open; 17 3/4" x 13 3/4" x 2 1/2" closed. Covered in handsome new airplane-luggage cloth with tan tweed effect and harmonizing maroon striping. Leather carrying handle is securely riveted on top. Entire unit is light in weight; compactly built for easy portability. Ideal for use with any Knight or other amplifier having high-impedance phono input or may also be used with any radio set having proper input. This dependable record player is built to stand up under heavy-duty use, and its convenient portability makes it unusually versatile. It will provide unusually fine quality reproduction whether used with amplifier or with radio set. Operates with lid closed. The splendid features of this new Knight Portable Phono, plus its handsome streamlined case, make it an exceptional value at our very low price. Make your P.A. system really complete by adding the Knight Portable Phono to your equipment. Includes approved 6 foot cord and plug. For operation on 110 volts, 60 cycles A.C. Shpg. wt., 29 lbs.

A12311. Complete with General Industries single-speed motor. **YOUR PRICE.....\$1375**

A12312. Identical in characteristics and construction to above but incorporates a General Industries dual-speed, 78 and 33 1/2 R.P.M. motor. For 110 volt, 60 cycle operation. **YOUR PRICE.....\$18.85**

A12313. Equipped with single-speed, 78 R.P.M. Garrard Universal AC-DC motor. For 100-150 and 200-250 volts DC or AC 25-60 cycles. **YOUR PRICE.....\$24.95**



KNIGHT RECORD PLAYER AND AMPLIFIER

Here is an outstanding value in a combination Record Player and Amplifier. This completely portable self-contained unit meets a wide demand for a high-quality, self-powered Phonograph Player. Ideal for use in homes, schools, fraternities, dormitories, advertising agencies, churches, clubrooms, summer homes, camps, etc. Can be used wherever 110 volt, 60 cycle A.C. is available. Built of highest quality components to assure long life and trouble-free operation. Single unit carrying case contains self-starting 78 R.P.M. phono motor and turntable, off-set head crystal pickup, and built-in amplifier, with permanent magnet dynamic speaker. Pickup, amplifier and speaker are accurately matched to provide the finest type of record reproduction. Delivers ample volume for a large-size room. Will play 8, 10 and 12" records with the lid closed, thus reducing needle-scratch and surface noise. Hinged cover is removable. Built-in volume control permits operation at either high or low levels as desired. A.C. switch is attached to volume control for convenience of operation. Housed in attractively styled airplane luggage type case with metal reinforcing corners, and securely fastened carrying handle; has snap-type cover locks. Turntable panel also has needle cup and pick-up arm post which holds pickup securely in place while carrying. Size closed, 14 3/4" high, 13 1/4" wide and 9" deep. Weighs only 14 lbs. An outstanding new instrument, complete in one single case; ideal for reproduction of phonograph records with unusual power and quality. Offered at a remarkably low price.

A12316. **YOUR PRICE.....\$1875**



FAMOUS PACKARD RECORD CHANGERS

A completely dependable Automatic Record Changer; single-speed type; will play any 8", 10" or 12", 78 R.P.M. records. Last record will repeat until mechanism is turned off. May be set to repeat or reject any record at will. Motor is governor-controlled, induction type. Operates without noise. Equipped with high impedance, high-fidelity Crystal pickup, assuring the very best quality of phono reproduction. Suitable for use with any amplifier or radio receiver having a high impedance phono input circuit. Accurately machined parts insure pickup needle lowering to proper starting groove. Supplied with volume control and on-off switch. For 110 volts, 60 cycles, A.C. operation. Available as mechanism only or in portable case.

MODEL K. Mechanism only. An efficient, compact unit measuring only 12"x12"x5 1/2". Plays eight 10" records automatically; plays 12" records manually, by means of simple change. Repeats last record. Finished in stately bronze. Wt., 26 lbs. **\$27.60**

MODEL L. Mechanism only. Will play eight 10" or seven 12" records automatically with only simple change adjustment. Size: 14"x15"x5". Repeats last record. Statuary bronze finish. Wt., 26 lbs. **\$30.45**

MODEL M. Mechanism only. Will play eight 10" or seven 12" records automatically. Requires only one shift of adjustment lever to change sizes. Repeats last record. With volume control. Size: 15"x14"x5". Wt., 28 lbs. **\$31.80**

A10134. NET.....\$27.60

A10135. NET.....\$30.45

A10136. NET.....\$31.80

IN PORTABLE CARRYING CASES

The Packard Record Changer mechanisms, as listed above, are also available completely installed in attractive, striped airplane-luggage cloth-covered carrying cases. The cases are ruggedly built to withstand hard usage.

MODEL K RECORD CHANGER, in portable case. Plays 8-10" records automatically; 12" records manually. **A10137. NET.....\$32.50**

MODEL L RECORD CHANGER, in portable case. Plays eight 10" or seven 12" records automatically. **A10138. NET.....\$35.70**

MODEL M RECORD CHANGER, in portable case. Plays eight 10" or seven 12" records automatically. **A10139. NET.....\$37.05**

A10128. PORTABLE CASE ONLY. For all Packard Record Changers. **NET.....\$5.75**



WEBSTER RECORD CHANGER

A completely new Automatic Record Changer of improved design. Suitable for use with phonograph-radios or with portable amplifying systems where it is desired to obtain prolonged phono reproduction at dances, school programs, etc. The non-jamming feature of the record changer prevents damage to the unit in spite of unusual forms of tampering such as pressing button during record change cycle, lifting or holding record supports, etc. The device plays either ten 12" records or twelve 10" records automatically but will not play both sizes simultaneously. Four control buttons are provided, one for playing 12" records, one for 10" records, one for changing from automatic to manual operation and one for rejecting. Complete with combined switch and volume control. Mechanism panel is 14" square; unit extends 5 1/2" above and 4 1/2" below panel. Shpg. wt., 30 lbs. For 110 volts, 60 cycles A.C. **\$35.28**

A10180. NET.....\$35.28

A10181. In Portable Case. Webster Automatic Record Changer, complete as described above, in an airplane-luggage carrying case; size 16"x17"x12". Shpg. wt., 40 lbs. **\$43.50**



RC-50 MIXER-CHANGER

The ultimate in record-changing, record-playing units. This unit accomplishes every conceivable purpose you could demand of an Automatic Record Changer. It will play any make of record in either 10" or 12" size in any combination or assortment. Plays eight records of either size automatically. Silent, smooth-running, infallible mechanism performs its duty in an almost human manner. The RC-50 contains all of the features of standard units together with several of its own exclusive features. It utilizes a swivel head on the pickup arm and uses a specially curved arm which places the needle at a true tangent to the record groove. The driving motor is the finest phonograph motor that can be built. Includes automatic stop which turns motor off as soon as last record has been played. Uses finest type of Crystal pickup. Provides for automatic rejection of any record at any time. Unit "floats" on spring mounting. Overall dimensions: 16" long, 14" wide, 5 1/4" above plate and 4 3/4" below. Wt., 35 lbs.

A12052. Garrard Model RC-50 Changer. For 100-130 volts and 200-250 volts, 50-60 cycles, A.C. **\$52.90**
YOUR NET PRICE.

A12053. Garrard Model RC-51 AC-DC Record Changer. For 100-130, 200-250 volts D.C. or 25-60 cycles A.C. **\$58.80**
YOUR NET PRICE.

RC-10 AUTOMATIC CHANGER

Another triumph in record-changing, record-playing equipment. The RC-10 embodies many of the outstanding, unique features of the RC-50. It will play either eight 10" or 12" records of any make automatically. Motor is mounted on a metal plate with the necessary controls. This changer features automatic stop, tangent pickup arm, automatic rejection knob, non-slip spindle, and spring mounting for the elimination of acoustic feed-back. The unit is silent and smooth in operation. Crystal pickup is of the Bimorph type which incorporates finest Piezo electric cartridge. Crystals are molded into a special moisture-proof compound. Garrard's powerful motor is used with its phosphor-bronze bushings, bearings and fittings. Rotor bearings are of the self-lubricating type requiring only a few drops of oil after 1000 hours of use. Overall dimensions, with records loaded, are: 15" long, 13" wide, 4 1/4" clearance above plate and 4 1/2" below. Wt., 30 lbs.

A12050. Garrard Model RC-10 Changer. For 110-130 volts and 200-250 volts, 50-60 cycles, A.C. **\$38.22**
YOUR NET PRICE.

A12051. Garrard Model RC-11 Record Changer. Universal A.C.-D.C. motor for 100-130 volts and 200-250 volts, 25 to 60 cycles. **\$44.10**
YOUR NET PRICE.

CASES FOR MODELS RC-50-51

A12055. Beautiful, hand-rubbed walnut finish cabinet. Rounded corners. With motor board. **NET \$11.65**
A12057. Sturdy airplane luggage type portable case. Leather corners. With motor board. **NET \$7.50**

CASES FOR MODELS RC-10-11

A12054. Walnut finish case with beautiful hand-rubbed finish. Contains motor board. **NET \$11.65**
A12056. Airplane luggage type carrying case, designed to give good wear. With motor board. **NET \$6.90**

GARRARD ACCESSORIES

Garrard Motor Oil. Years of experience in the phono motor field have resulted in the development of an oil particularly suited to lubricate all makes of phono motors and record changers. Use this oil to keep your record changer in perfect running condition.

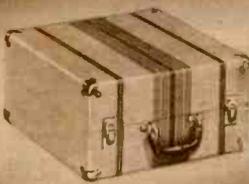
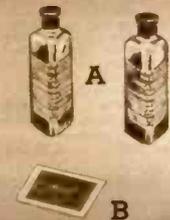
AB065. Per Bottle. 35c
NET.

AB066. Garrard Chromic Needles. An excellent long-playing semi-permanent needle designed for use with automatic equipment. Each needle will play 10 records.
NET. PKG. OF 10 \$9c

A combination high-grade constant-speed motor and Garrard high-fidelity, true tangent crystal pick-up arm on a compact single-unit plate for simplified installation. Comes completely furnished with motor, pick-up, pick-up arm, rest, 10" turntable and all necessary hardware. All parts including shielded pick-up leads are bonded for grounding. Specially curved arm places the needle at a true tangent to the record grooves. Fully enclosed motor unit has highest grade phosphor-bronze bearings. Maintenance is reduced to a minimum. A few drops of oil every 1000 hours of use keeps motor in perfect running condition. Motor will operate at a constant speed of 78 R.P.M. without adjustment. For operation on 100-130 volt, 50-60 cycle lines.

A12058. Garrard Type F Phono Assembly. **\$10.58**
YOUR NET PRICE.

GARRARD TYPE F PHONO ASSEMBLY



PORTABLE CASES LUGGAGE TYPE CASE

A perfectly constructed, sturdy airplane luggage type carrying case designed to stand up under extreme conditions of portable service. Leather reinforcing corners. Double clasp locks, positive in action, will not snap open while carrying. Sturdy handle securely riveted to case. For RCA Record Changers.

A10098. Portable Case. \$6.75
NET.

WOOD TABLE MODEL CASE

A luxuriously finished, hand-rubbed walnut finish table model case designed to house the RCA Automatic Record Changer. Will enhance the beauty of any room. Ample room above and below board for mechanism.

A10069. Table Model Case. \$11.65
NET.

RCA AUTOMATIC RECORD CHANGER

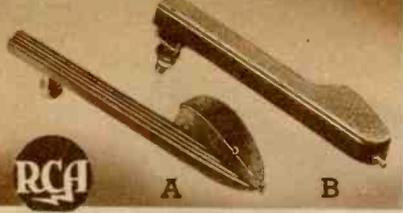
Now! At a New Low Price—RCA De Luxe Record Changer!

Here is the genuine new "Gentle-Action" R.C.A. De Luxe Changer—designed for those who desire the highest-quality record-changing mechanism. Identically the same as used in newest RCA-Victor Radio-Phono Combinations. Will automatically play eight 10" or seven 12" records. When loaded with 12" records, it will provide 35 minutes of uninterrupted entertainment. New RCA Senior Crystal pickup is of the latest inertia type, balanced to assure minimum record wear and surface noise. Top-loading makes needle-changing fast and easy; no fumbling; simply drop needle in top well and tighten set-screw. Mechanism is of simple fool-proof design, built to provide continuous trouble-free operation. Shock-absorbent coupling between motor and turntable eliminates vibration. High-fidelity type high-impedance crystal pickup has output of 1.5 volts at 1000 cycles; range is 70 to 7000 C.P.S.

Will play all types and sizes of records up to 12" manually. All records with standard stopping groove will operate the automatic mechanism and change records. Best tracking with minimum record wear is obtained by proper positioning of the arm. Needle is off-set and balanced to exert a pressure of only 3 ounces. Pick-up impedance is 100,000 ohms at 1000 cycles. Finished in very attractive brown wrinkle with polished chrome trim. Motorboard measures 1 1/4 inches wide by 11 1/4 inches deep. Space required above motorboard, 4 1/4 inches. For 110 volts, 60 cycles A.C. Shpg. wt. 35 lbs.

A10075. No. 9865. \$26.43
YOUR NET PRICE.

A10076. No. 9865A. As above but for 110 volts, 50-60 cycles A.C. **\$27.90**
YOUR NET PRICE.



CRYSTAL PICKUPS

Fig. B. Junior Model. Another new RCA crystal pickup at a sensationally low price. Impedance at 1000 cycles is 100,000 ohms. Frequency response is 70 to 7,000 cycles. The offset needle position assures true-tracking. Pickup arm is swiveled. Needle pressure only 2.7 ounces. **\$2.91**
NET......
A7587. RCA 9891. List, \$4.95.

Bakelite Junior Model. Incorporates all of the features of the model described above, but is housed in an unusually attractive brown bakelite case that blends well with any type of cabinet. Needle insertion is extremely easy. **\$3.20**
A7588. RCA 9868. List, \$5.45. NET.....

Fig. A. Senior Model. An outstanding RCA development featuring top needle-loading and automatic needle rejection. Frequency response, 70-7000 cycles. Unit is attractively finished in brown wrinkle lacquer. A truly deluxe pickup. **\$3.79**
A7589. RCA 9869. List, \$6.45. NET.....
A7592. Needle-Box and Pickup Rest. May be used with any phonograph and pickup. **NET**..... 59c



KNIGHT

An accurately balanced high-impedance crystal pickup at a sensationally low price. The crystal is a grafoil Bimorph type especially treated to give long life under adverse weather conditions. Cartridge is set at a tangent to assure proper needle-tracking for minimum wear and surface noise. Has exceptionally wide frequency response. Needle pressure is 2 1/4 ounces. Overall length, 8 1/4"; height, 1 1/4". Output is 2.9 volts at 1,000 C.P.S. across 1/2 megohm load. Handsomely finished in brown crackle. Shpg. wt., 1 1/4 lbs. **\$2.45**
A7527. NET.....



GARRARD

CRYSTAL MODEL. The well-known Garrard high-impedance crystal pickup incorporates many advanced features. The tangent area holds the needle parallel to the groove at all times, assuring perfect tracking and minimum record wear. A unique swivel head permits inserting the needle from the top. In hand-rubbed bronze finish. Complete with mounting rest, base supports and shielded lead. **\$5.88**
A8092. NET.....
A8093. MAGNETIC MODEL. High impedance type. High quality construction as above. **NET**..... **\$7.06**

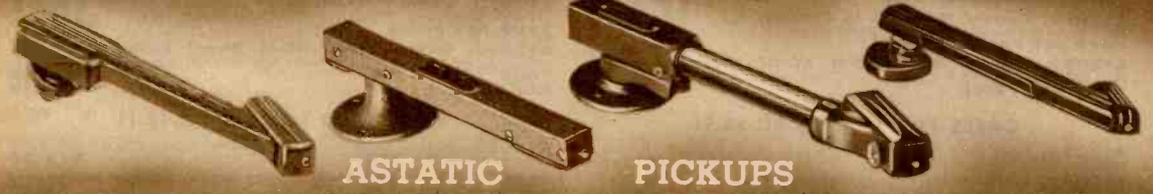


RCA 9676. An exact duplicate of the original pickup head used on the Models RE45 and RE75. Impedance is 400 ohms. **\$3.82**
A9496. NET.....

RCA-VICTOR PICKUP HEADS

RCA 9666. Same electrical and mechanical specifications as the original head used on the Model 331. Impedance, 30 ohms. **\$3.23**
A9495. NET.....

Pickup Transformer. Correctly designed transformer for connecting a 30 ohm pickup to the grid of a tube. Wt. 2 lbs. **\$2.20**
A11279. NET.....



ASTATIC PICKUPS

MODEL AB-8. A new, ultra-modern Astatic Pickup. Features spring axial cushioning to prevent motor vibration reaching arm. A crystal sealed in bakelite assures wide-range response. Head is offset for optimum tracking. Convenient single hole mounting. With 4 foot shielded cable. For 10" or 12" records. Standard stately brown finish. Wt. 2 1/2 lbs. **\$5.88**
AB072. NET.....
AB073. As above, but finished in telephone black. **NET**..... **\$5.88**

STANDARD TYPE. Carefully balanced for correct needle pressure. Frequency response may be varied for either treble or bass. A widely used quality pickup. **\$5.88**
AB074. S-8. For 10" and 12" records. List, \$10.00. **NET**.....
AB075. S-12. For 10" to 16" records. List, \$12.50. **NET**..... **\$7.35**
AB083. Crystal cartridges for above pickups. **NET**..... **\$2.94**

TRU-TAN TYPE. Offset head holds needle true to tangent through entire record playing surface. Arm rotates on double-row ball-bearings. Top-loading. **\$10.29**
AB076. B-10. For 10" and 12" records. List, \$17.50. **NET**.....
AB077. B-16. For all records up to 16". **YOUR PRICE**..... **\$13.23**
AB084. Crystal cartridges for above pickups. **NET**..... **\$3.53**

TYPE 07. Offset head type to assure minimum tracking error and reduction of surface noise. Combines easy needle-loading with correct cushioning against vibration. 2 1/2 oz. needle pressure. For 10" or 12" records. A popular, good-fidelity pickup of famous make at an unusually low price. Has attractive brown finish with embossed trim lines. **\$3.82**
AB078. NET.....
AB085. Crystal cartridge for above pickup. **NET**..... **\$2.94**



WEBSTER PICKUPS

Scratch Filter. Completely sealed and tuned to resonate at point of greatest scratch intensity. For use with any crystal or magnetic pickup to eliminate excessive needle noise and greatly improve phono reproduction. Resonant-trap circuit type; sealed in metal case as illustrated. **88c**
AB079. NET.....

New Crystal Pickup. Frequency response is 50 to 8500 cycles. Needle pressure 2.5 ounces. Arm is rubber-cushioned. Single hole mount. **\$2.91**
AB098. NET.....
AB099. As above but with 6.3 volt pilot-light mounted in arm. **NET**..... **\$3.20**

Standard Crystal Pickup. Has excellent frequency response. Impedance is 130,000 ohms; output, 2 volts at 1,000 cycles. Tangent type arm assures minimum record wear. Walnut wood case. **\$3.47**
AB095. NET.....
AB086. Crystal cartridge only for model above. **NET**..... **\$2.85**

Streamline Magnetic. A true high-fidelity magnetic pickup. Correctly damped. Output, 1 volt at 1,000 C.P.S. Impedance, 18,000 ohms. **\$4.70**
AB096. NET PRICE.....
AB097. Streamline Crystal. Similar to above but has crystal pickup set at tangent. **\$2.98**
NET.....



SHURE

ZEPHYR CRYSTAL PICKUP. A crystal pickup with uniform frequency response from 50 to 10,000 cycles. Imp. is 80,000 ohms. Can be coupled directly to grid. Needle-tilt angle keeps needle tangent to and centered in record groove. Needle pressure, 2 1/4 ounces. Measures 11 1/2" long. Has flat type mounting. Tone arm is molded bakelite. With cable and arm rest. **\$4.41**
A7529. 99C. Walnut, EACH.....
A7523. 98A. Black.
92 A7524. 98AW. Walnut, EACH..... **\$3.82**



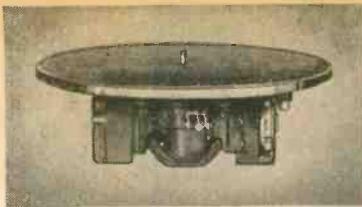
WEBSTER-CHICAGO

NEW MAGNETIC PICKUP. This Model W-83 magnetic pickup is a new development by Webster-Chicago. The magnetic principle results in exceptional brilliance of tone and natural lifelike reproduction. Structure utilizes new alloys for improved output level, and freedom from temperature or climatic effects. The new arm provides free action in any direction by means of jointed head and the swivel base mounting. Equipped with 18" of shielded cable. Output is 1.4 volt; impedance, 5,000 ohms; record pressure, 3 ounces. **\$3.97**
A2240. List, \$6.75. NET.....



CRYSTAL PICKUP TONE EQUALIZER

Adjustable tone compensation network which connects between any crystal pickup and amplifier. It varies the response characteristics to suit individual taste and circumstances. A rotary switch provides 3 different equalizing circuits—bass, medium and hi-fidelity. Fourth position cuts equalizer out of circuit. Unit is housed in a box 2" in diameter and 3/4" deep. Single hole mount. A dial plate and knob and complete instructions are supplied with each unit. Ideal for all crystal pickups. **\$1.91**
AB091. NET.....



GENERAL INDUSTRIES PHONOGRAPH MOTORS

GREEN FLYER MOTORS

Model A. Single-Speed 78 R.P.M. Heavy-duty governor-controlled induction type motor. Operates constantly and quietly at 78 R.P.M. Has silent, helical-cut gears sealed in oil. With 10" felt-covered turntable, mounting plate, and speed control lever. Hardware supplied. For 110 volts, 60 cycles.

Shpg. wt., 10 lbs. **\$7.65**

A10070. List, \$12.75. NET.....

Model V. Identical to Model A above except with screw type speed regulator and less mounting plate. Motor size, 5 1/4" x 3 3/4" x 2 1/4".

A10051. NET..... \$6.75

2 SPEED 78-33 1/3 R.P.M.

Model D. A heavy-duty motor suitable for all records and transcription-playing requirements. With 12" turntable, speed control, speed change lever, and hardware. Motor size: 8 1/2" l. 5 1/2" w. 3 3/4" deep. For 110 volts, 60 cycles. Shpg. wt., 13 lbs.

A10072. List, \$17.50. NET..... \$10.50

A10071. As above but with 10" turntable.

List, \$17.00. **NET..... \$10.20**

6 VOLT 2 SPEED MOTOR

Model R. An exceptional money-saving value. Operates from a 6 volt battery. Battery drain is only 2.8 amperes. Features dual-speed for either 78 or 33 1/3 R.P.M. With 12" turntable. Wt., 14 lbs.

A10074. List, \$24.50. NET..... \$10.75

Weighted 12" Turntable for 33 1/3 R.P.M., instead of standard 78 R.P.M. turntable; add \$1.80 to prices given above.

A7624. Automatic Stop. For use with Green Flyer motors above. **NET..... 90c**



An efficient phono-oscillator at an amazingly low price. It permits the playing of phonograph records through any radio. Acts as a miniature Broadcast station, producing a signal which your radio picks up in the regular way and then reproduces through the loudspeaker. Quickly and easily attached to the antenna and ground connections on the set. Measures 6"x6"x2 1/4". Attractively finished metal case. Complete with Raytheon 6F7 and 25Z5 tubes. For 115 volts, A.C. or D.C. Wt., 2 1/2 lbs.

A7627. NET..... \$2.95

RCA PHONOGRAPH NEEDLES

A7613. Soft Tone. 100 to package.

A7605. Half Tone. 75 to package.

A7608. Full Tone. 100 to package.

A7607. Loud Tone. 100 to package.

Per Pkge., 9c. 10 Pkgs. for **75c**

A7610. Tungstone. Full Tone.

A7611. Tungstone. Loud Tone.

8 to pkg. Per pkg. **18c**

A7612. Home Recording Needles.

8 to pkg. Per pkg. **25c**

A7620. Permo-point. Plays over 2000 records. Prolongs record life.

EACH, 50c. Lots of 5, EACH **45c**

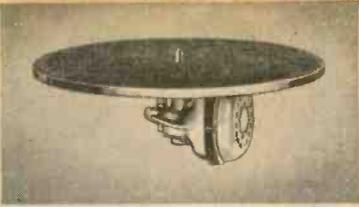
A8066. Garrard Chromic Needles.

Long-playing. Pkge. of 10 **9c**

NEEDLE CUPS

A7601. Fig. A. Attractive cup of nickel-plated brass. Fits 1 1/2" round hole. **NET..... 5c**

A8070. Fig. B. Similar to type A above, but has a spring hinge type cover. **NET..... 15c**



MODEL CX SPECIAL VALUE

A turntable unit providing dependable performance at exceptionally low cost. The 78 R.P.M. direct-drive, self-starting motor is of the induction type. Fan-cooling and proper ventilation permit installation in small cases without danger of overheating. Silent operation is assured by the fully enclosed, helical-cut gears running in a bath of oil. Turntable is 8" in diameter. Special drive shaft insulates motor from turntable. Furnished with mounting plate, metal and rubber turntable drive washer, screws, washers, and nuts. For 110 volts, 60 cycles. Shpg. wt., 10 lbs.

A10052. NET..... \$5.10

Model KX. Similar to the Model CX above but with slightly smaller motor.

A10085. NET..... \$4.26

12-Inch Turntable. For 12-inch turntable, add 45c to the prices given above.

A7624. Automatic Stop. For use with either Model CX or Model KX. **NET..... 90c**



NEW MODEL RX RIM-DRIVE

A dependable, low-priced unit. Uses a 78 R.P.M. rim-driven, self-starting, induction motor. Driving pulley, idler, and 3" turntable aligned in one plane for efficient, trouble-free performance. Motor is insulated from mounting plate for quiet operation. For 110 volts, 60 cycles. Shpg. wt., 10 lbs.

A10086. NET..... \$3.54

10-Inch Turntable. For 10-inch turntable add 15c to the price given above.

A7624. Automatic Stop. For use with the Model RX described above. **NET..... 90c**



HEAVY-DUTY "BLUE-FLYER"

Uses a very powerful, single speed 78 R.P.M. induction motor. Recommended highly for recording purposes. Oversize lubricator provided for the governor brake. Has excellent speed regulation and will not overheat. Silent gears run in a bath of oil and are fully enclosed. Furnished with special weighted 12" turntable, metal and rubber turntable drive washers, pointer speed regulator, mounting plate screws, nuts, washers, etc. For 110 volt, 60 cycles. Shpg. wt., 15 lbs.

A10084. NET..... \$11.10

NET.....



RCA PHONO OSCILLATOR

With this unit you may easily connect either a phonograph pickup or a high impedance microphone to your Broadcast receiver regardless of its type. Oscillator furnishes a modulated signal which is fed into the input of the radio for better record reproduction. Uses a type 12A7 tube which is supplied. Frequency range, 900 K.C. to 1100 K.C. Designed for use on 115 volts A.C. or D.C. With instructions. Shpg. wt., 3 lbs.

A7626. NET..... \$4.38



KNIGHT SPECIAL VALUE MOTOR

A wonderful "buy" in a high-quality phono motor. The 9" turntable is driven by a new 78 R.P.M. constant-speed self-starting motor. Uniform speed is maintained regardless of record drag or variations in line voltage and operating temperature. Large bearings with ample oil reserves and special helical-cut gears assure smooth, silent operation and long life. Motor is fan-cooled and allows free ventilation. For 110 volts, 60 cycles A.C. Shpg. wt., 8 lbs. A real phono motor bargain.

A10089. NET..... \$3.95

YOUR SPECIAL PRICE.....

KNIGHT FRICTION-DRIVE MOTOR

A dependable unit at a sensationally low price. Smooth-running friction rim-drive eliminates gears. Motor is shock-mounted to prevent vibration. Has forced ventilation for cool operation. 9" turntable. For 110 volts, 60 cycles. Shpg. wt., 7 lbs.

A10083. NET..... \$2.95

A7624. Automatic Stop. For use with either of the above Knight motors. **NET..... 90c**



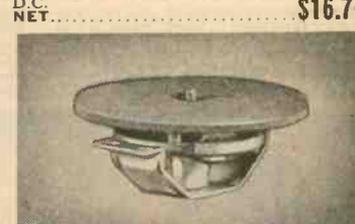
GARRARD PHONO MOTORS

Model A6-C. Features an efficient 78 R.P.M. induction type motor. Phosphor bronze bearings, bushings, and fittings are used. Has an exclusive, fully automatic start and stop mechanism. All parts are mounted on a bronze plate to facilitate installation. Turntable size, 12". With speed regulator. For 100-130 and 200-250 volts, 50-60 cycles, A.C. Shpg. wt., 15 lbs.

A10091. NET..... \$10.88

A10092. Model U5-C. As above but for 100-130 and 200-250 V., 25-60 cycles, A.C. or D.C.

NET..... \$16.76



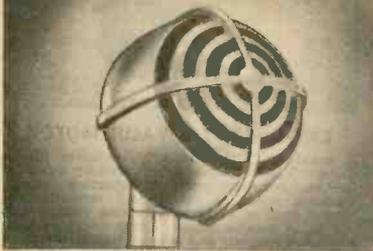
RCA SYNCHRONOUS MOTOR

A midjet type phono motor identical the same as used in the R.C.A. portable record players. An ideal motor assembly for use in all types of portable record-playing equipment, for modernizing or wherever space is limited. Synchronous type; manual-starting. Operates at 78 R.P.M. from 105-125 volts, 60 cycles, A.C., without wows or vibration. Power consumption only 10 watts. With 7" turntable for 10 and 12 inch records, and shock-proof mountings.

A9491. R.C.A. No. 9841. NET..... \$3.82

List, \$6.50. **NET.....**

SHURE MICROPHONES



"UNIPLEX" CRYSTAL MODEL 730-A

A sensational new type of crystal microphone that provides true uni-directional operation. Has high sensitivity from front, with practically zero pickup from rear. Solves feedback, room and background noise, and reverberation problems in even the most critical sound installations. Tilts up for as wide as 360 degree pickup if desired. Smooth high-quality wide-range response; output, -62 db. Satin-chrome finish. Equipped with polarized cable connector and 25 foot shielded cable. $\frac{3}{8}$ "-27 thread. Wt., 1 1/2 lb. This microphone is ideally suited for true reproduction of both voice and music.

A2554. List, \$32.50. NET.....

\$19.11



FAMOUS "ROCKET" TYPES MODEL 705-A CRYSTAL

Semi-directional crystal microphone having many fine features. Satin-chrome finish. Exceptionally wide frequency response; output of -55 DB. With cable connector and 25 foot cable. $\frac{3}{8}$ "-27 thread. Wt., 1 1/4 lbs.

A2552. List, \$25.00. NET..... **\$14.70**

MODEL 50-C DYNAMIC

New Shure moving conductor type mike with smooth response from 70 to 7000 CPS. Suitable for all general applications. High impedance type with built-in transformer. Output, -63 DB. With 7 foot cable.

A2568. List, \$26.00. NET **\$15.29**

A2567. Model 50C with 25 ft. cable. NET..... **\$16.17**

A3929. Snap-on baffle plate for 705-A and 50C mikes. NET. \$1.47

"SUPER-LEVEL"

Model 70H. A superior crystal microphone of the diaphragm pressure-actuated type. Has exceptionally high output of -46 DB. $\frac{3}{8}$ "-27 thread. Has new side cable-outlet and connector plug. 3 inch diameter; 1 1/4 in. thick. Supplied complete with 7 foot shielded rubber-covered cable. Unusually high output makes this mike a favorite with Amateurs for use with low-gain speech equipment for crisp reproduction.

A2557. List, \$22.50. NET..... **\$13.23**

A2558. Same as above, but with 25 foot cable attached.

NET..... **\$14.29**

"UNIDYNE"

Model 55C. A new dynamic microphone that provides true uni-directional operation. Solves feedback, room and background noise, and reverberation problems. Sensitive at front, dead at rear. Wide-range response, 40 to 10,000 C.P.S.; output, -58 DB. Satin-chrome finish. With cable connector and 25 foot cable. $\frac{3}{8}$ "-27 thread. High impedance. Wt., 4 1/2 lbs. This mike is suitable for the finest Public Address installations; reproduces with lifelike fidelity.

A2564. List, \$45.00. NET..... **\$26.46**

Also available for 35-50 and 200-250 ohm circuits.



THE NEW SHURE "STREAMLINERS" MODEL 7A CRYSTAL

A new economy type crystal mike having typical Shure quality. Fully moisture-proofed crystal in shock-proof mounting. Smooth wide-range response from 30 to 10,000 cycles. Output, -53DB. Satin chrome case. $\frac{3}{8}$ "-27 thread. Complete with 7 ft. cable.

A2565. List, \$16.50. NET..... **\$9.70**

A2560. Model 7A with 25 ft. cable. NET..... **\$10.76**

MODEL 5G DYNAMIC

A new pressure-operated moving conductor type mike in same case as Model 7A above. Output, -63 DB. High impedance type. With 7 ft. cable.

A2559. List, \$21.00. NET..... **\$12.35**

A2556. With 25 ft. cable... **\$13.23**



COMMUNICATION MIKES

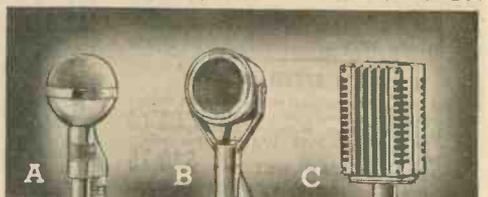
Crystal Type. Designed to provide clear, crisp reproduction for Amateur 'phone transmitters. Has built-in RF filter. Output, -33DB. Completely insulated for safety. Streamlined desk mount in grey finish. Complete with stand and 7 ft. cable.

A2582. List, \$19.50. NET **\$11.47**

Dynamic Type. Same case and stand as Crystal mike above. Output, -42 DB. Built-in RF filter; insulated for safety. Excellent response curve. With stand and 7 ft. cable.

A2583. List, \$24.00. NET **\$14.11**

A2581. Desk Stand Only. Streamlined desk type mike mounting as illustrated. Iridescent grey finish. $\frac{3}{8}$ "-27 thread. NET..... **\$2.06**



ULTRA-WIDE RANGE CRYSTAL MIKES

Efficiently designed, quality-built, ultra wide-range mikes to meet all P.A. requirements. Dual-drive high capacity crystal unit has wide response from 30 to 10,000 C.P.S.; triple-moisture-sealed by special process. Output level is -53 DB. Acoustically correct, curvilinear diaphragm. All models have $\frac{3}{8}$ "-27 thread polarized cable connector, and 25 foot cable.

A2561. Model 702D. Fig. A. Spherical semi-non-directional type. $2\frac{1}{4}$ " overall diameter. Satin-chrome finish. Wt., 1 lb. Complete with 25 foot cable.

A2562. Model 700D. Fig. B. Semi-directional type. Swivel arrangement for tilting head. Chromium finish. $2\frac{3}{4}$ " Shpg. wt., 2 lbs. Complete with 25 foot cable.

A2563. Model 701D. Fig. C. Grille type case; Satin-chrome finish. $3\frac{1}{8}$ "x $2\frac{3}{8}$ "x $1\frac{1}{4}$ ". Wt., 1 lb. Complete with 25 foot cable.

YOUR PRICE EACH..... \$14.70

Snap-On Baffle for 700D Mike. Quickly and easily fastened on mike with spring clips. Decreases side and rear pickup. **A3932.** NET..... **\$1.47**



LAPEL MIKE

MODEL W. High sensitivity, light weight, and general compactness of design make this a perfect "watch model" mike. Suitable for use in inter-office systems, detectaphones, P.A. systems, experimental work, etc. Impedance, 200 ohms. Equipped with new low-hiss carbon button and spot center diaphragm. Completely enclosed in all-metal case which protects it against injury in handling or use. Only $1\frac{1}{4}$ " diameter, $\frac{1}{8}$ " thick. Output, -38 DB. **A2508.** List, \$3.00. NET **\$1.76**

We can supply all Universal Microphones, including special units for Mobile and Aircraft use, also all Universal Recording equipment. Write for complete Universal catalog.

UNIVERSAL MICROPHONES



UNIVERSAL "HANDI-MIKES"

Single Button Carbon. New style balanced-grip body in polished chrome. Impedance, 200 ohms. Output, -40 DB. Close-talking type. With 6 foot cord and built-in on-off switch. Wt. $1\frac{1}{2}$ lbs.

A2642. List, \$10.00. NET..... **\$5.88**

Double-Button Carbon. Similar to above; impedance 200 ohms per button. Output, -55 DB. 6 foot cord and on-off switch.

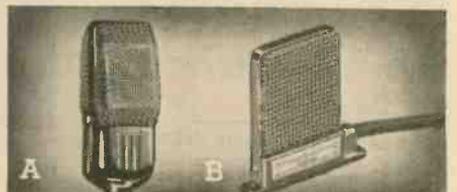
A2536. List, \$15.00. NET..... **\$8.82**

Crystal Type. Body style as above. Moisture sealed crystal with curvilinear diaphragm. Response, 50 to 5000 cycles. High impedance. Output, -70 DB. With 10 foot cable and on-off switch. Wt. $1\frac{1}{2}$ lbs.

A2537. List, \$18.50. NET..... **\$10.88**

Dynamic Type. Style as above. Response, 100 to 8000 cycles. Output, -64 DB. 33 ohm impedance type. With 10 foot cable and on-off switch. Wt. $1\frac{1}{2}$ lbs.

A2538. List, \$22.50. NET..... **\$13.23**



FAMOUS BRUNO MICROPHONES

FIG. A. Famous static-velocity type microphone which can be used with cables up to 2000 feet long. Has high sensitivity and bi-directional pickup. Sturdy case with swivel type mounting yoke and rubber shock absorber. High impedance type; output, -50 DB. Gummetal finish. Less cable. $\frac{3}{8}$ "-27 thread and cable connector. **A3938.** Model MB. List, \$22.50. NET..... **\$13.23**

A3937. 25 foot shielded cable for above. NET \$1.47

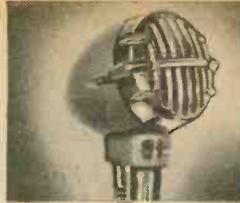
FIG. B. Special purpose microphone for musical instrument pickup, detectaphone, lapel mike, call systems, etc. Only $2\frac{1}{8}$ "x $2\frac{1}{4}$ "x $1\frac{1}{2}$ ". Response from 30 to 14,000 C.P.S.; high impedance; output, -55 DB. Wt., 4 oz. With three foot cable and connector plug. This amazingly compact unit can be installed anywhere and easily concealed if desired. It is ideal for Church or School hearing-aid systems because of its high sensitivity and wide-angle pickup. Housed in a protective metal screen with sturdy base.

A3935. Model MP. List, \$13.50. NET..... **\$7.94**



**NEW BRUSH
ALL-PURPOSE MIKE**

Type AP. A new, universal type crystal mike for general purpose applications. Housed in chrome finished die-cast case; removable back permits access to terminal strip providing impedances of 50, 200, and 500 ohms as well as high impedance. Output, —48 DB. Suitable for indoor or outdoor use. New swivel design provides adjustable position feature. Built-in variable tone control. With 25 foot cable and connector. Can be used with 200 or 500 ohm line of any desired length for P.A. installations where long distances are required between microphone and amplifier. Shpg. wt., 5 lbs. **A2540.** List, \$29.50. **NET \$17.35**



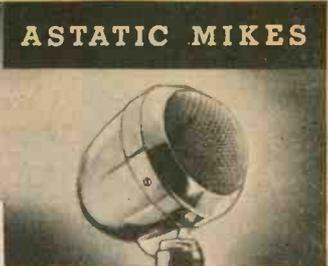
JT-30 CRYSTAL

Semi-directional type with fixed angle head for optimum usefulness. Has uniform wide-range response from 30 to 6000 cycles; output level, —52 DB. Internal suspension construction prevents pickup of vibration noises. Designed to provide really good performance at low price. The JT-30 is housed in a compact, polished chrome case, threaded 3/8"-27 to fit all stands. JT-31C also has cable-disconnecting plug. Shpg. wt., 1 1/2 lbs. **A2542.** Model JT-30C, with 7 foot cable. List, \$16.50. **NET \$9.70**
A2543. Model JT-31C, with 25 foot cable. List, \$19.00. **NET \$11.17**



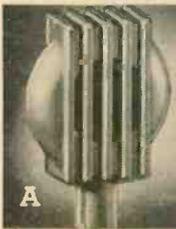
DN DYNAMIC

Featuring a new unitary moving coil and acoustic design together with highest quality Alnico magnets, this Astatic dynamic mike provides smooth and substantially flat response from 50 to 7000 cycles. High impedance type with output of —55 DB. Attractive modern style case with tilting feature is finished in two-tone opalescent gray and chrome. May be used in practically all types of P.A. and Sound work. Supplied with stand-type plug and connector, spring cable protector, and 25 foot shielded cable. Shpg. wt., 2 1/2 lbs. Excellent for use with outdoor P.A. installations. **A2541.** List, \$22.50. **NET \$13.23**



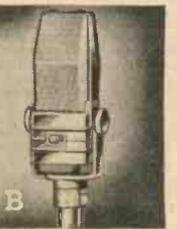
MODEL T3 CRYSTAL

An excellent wide-range crystal mike for general application in P.A., Recording, and general Sound installations, as well as for transmitting equipment. Frequency response is substantially uniform from 30 to 10,000 cycles, providing ample range for most speech and musical requirements. Output level, —52 DB. Tilting-head type case fitted with stand-type plug and connector, finished overall in polished chrome. Tilting-head provides effective means of controlling acoustic feedback. Has 3/8"-27 thread. Shpg. wt., 2 lbs. With 25 foot cable. A fine mike value. **A2361.** List, \$25.00. **NET \$14.70**



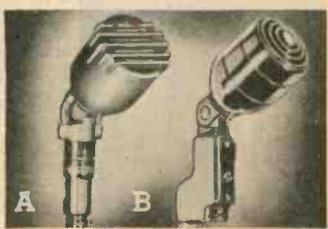
CARBON MICROPHONES

FIG. A. An extremely popular double-button type carbon mike in modern streamlined case. Impedance, 200 ohms per button. Frequency response from 40 to 8000 cycles. Entire button and diaphragm assembly suspended internally on live rubber. Gunmetal finish. With 6 foot cable. **A2644.** **NET \$4.41**
A2643. Above mike with desk stand and 25 foot cable. In attractive gunmetal finish. **NET \$5.29**
A10579. Desk stand only, 5" high, 3/8"-27 thread. Gunmetal finish. Sturdy and attractive. **NET 88c**
FIG. B. An outstanding value in an inexpensive double-button carbon mike. Frequency response from 45 to 7000 C.P.S. Imp. is 200 ohms per button. Stretched duralumin diaphragm. This unusually efficient high-grade carbon mike will give excellent service at low cost. **A2566.** **NET \$2.94**



VELOCITY MICROPHONES

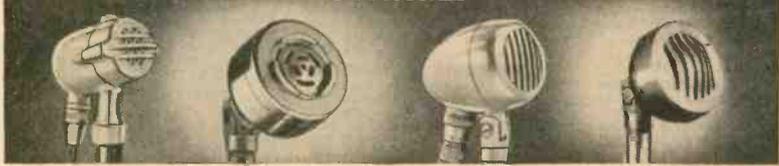
FIG. A. V-2 VELOCITY. High-fidelity response characteristics make this mike suitable for all sound pickup requirements. Overall response is essentially flat from 35-11,000 C.P.S.; output level, —64 DB. Housing and case design eliminates cavity resonance. Cradle type mounting; 3/8"-27 thread. With 20 foot cable and on-off switch. **A2579.** 200 Ohm Model. **NET EACH. High Impedance. \$20.58**
FIG. B. V-1 VELOCITY. Combines high-quality performance and extremely compact size. Cradle type suspension with built-in on-off switch. Response from 40 to 10,000 C.P.S. Output level —65 DB. Shockproof type mounting; 3/8"-27 thread. With 20 foot cable and cable connector. **A2578.** 200 Ohm Model. **NET EACH. High Impedance. \$14.70**



DYNAMIC MICROPHONES

FIG. A. Model 620. A high-fidelity dynamic microphone with response from 40-10,000 C.P.S. with rising characteristics. Output level, —55 DB. Plug-type removable mounting with 3/8"-27 thread. Swivel head permits directional or non-directional pickup. With 20 foot cable. Finished in attractive gunmetal. **A2358.** 200 Ohms. **A2360.** High Impedance. **NET EACH. \$16.17**
FIG. B. Model 630. Designed for highest quality pickup and for general Sound use. Built-in acoustical network provides smooth response from 40 to 10,000 cycles. Semi-directional. High impedance; output, —56 DB. Tilting feature. With on-off switch and 20 ft. cable and cable plug. Gunmetal finish. **A2357.** List, \$25.00. **NET \$14.70**

AMERICAN MICROPHONES



D7 DYNAMIC

A rugged general-purpose dynamic microphone with exceptionally fine frequency response. Good quality at economical cost. Output level is —55 DB. Semi-directional pickup. Chrome finish cast metal case; size, 2 1/2" high, 1 1/2" diam. Threaded 3/8"-27. Supplied with 12 1/2 foot cable. With polarized connector and locking plug. **A2352.** D7. 50 Ohms. **NET \$11.76**
A2353. D7T. High Impedance. **NET \$13.23**

D6 DYNAMIC

An excellent dynamic type microphone for general P.A. purposes. Chrome finish case with tilting mount for directional or non-directional pickup. Output, —66 DB. Can be used with cables up to several hundred feet in length. Response, 50-8000 C.P.S. With 12 1/2 foot cable and connector plug. **A2343.** D6. 50 Ohms. List, \$25.00. **NET \$14.70**
A2349. D6T. High Impedance. List, \$27.50. **NET \$16.17**

D5 DYNAMIC

An all-purpose dynamic type microphone for all installations which require high quality reproduction. Output, —55 DB. Semi-directional; with tilting bracket; 3/8"-27 thread. Finished in Chrome. Size, 3 1/2" long, 2 1/2" diam. Complete with 25 feet of shielded cable. Wide-range response gives true reproduction of both voice and music. **A2350.** D5. 50 Ohms. **NET \$16.17**
A2351. D5T. High Impedance. **NET \$19.10**

C6 CRYSTAL

A high-level output type crystal mike with extreme sensitivity and broad response curve resulting from improved bass response. Swivel-head case finished in polished chrome. Mechanical vibration noises reduced to minimum by internal suspension mounting. Output, —48 DB. May be used with cables up to 250 feet long, 3/8"-27 thread. Equipped with 7 foot cable and connector plug. **A2587.** List, \$16.50. **NET \$9.70**

R.C.A. AERODYNAMIC



An outstanding dynamic type microphone for all P.A., Amateur, and general Sound purposes. Trim, streamlined appearance; small compact case finished in polished chrome. Impervious to changes in temperature and humidity; may be used indoors or outdoors with equally faithful response. Frequency range from 100 to 6000 cycles. Average output, —68 DB. Output impedance 40,000 ohms. Microphone head has fixed position. With 30 foot cable and adapter to fit all 3/8"-27 thread stands. Illustrated mounted on RCA MI-6227 table model mike stand listed directly below. Shpg. wt., 2 1/2 lbs. Supplied less the stand illustrated. **A2588.** RCA MI-6228B. **NET \$12.90** List, \$21.95. **NET \$12.90**
A2589. RCA MI-6227. Table model mike stand. Finished in chrome and black, 1/4" pipe thread. List, \$3.75. **NET \$2.20**

AMPERITE MICROPHONES

VELOCITY TYPES WITH ACOUSTIC COMPENSATOR

Highest quality velocity microphones with the Acoustic Compensator which is extremely valuable in adapting the microphone to varying acoustic conditions. These Amperite velocity microphones feature: heavy cast gunmetal—finished case; hand-hammered ribbons; genuine Alnico magnets; triple-shielding against RF and magnetic fields, and high output. Range from 40 to 11,000 C.P.S. With removable cable plug and 25 feet of rubber-covered shielded cable. On-off switch in base of mounting yoke. Swivel type mounting. Live-rubber shock absorber. Threaded $\frac{3}{8}$ "-27. Output, —65 db. Has handy acoustic compensator control in the form of a sliding button which is easily adjusted for correct tonal emphasis. Available in chrome-finished cases at no extra charge. Specify when ordering, if chrome is desired.

A3600. RBMK. 200 ohms.
A3601. RBHK.
 High Impedance, **\$2470**
 NET EACH.....



STUDIO VELOCITY TYPE

A real Broadcast Studio type mike. Frequency response has plus or minus 1 db. variation from 40 to 15,000 C.P.S. Exceptionally well-suited for Broadcast station or Recording studio or for Sound installations. Has swivel mounting, rubber shock absorber, on-off switch, locking type cable plug, and 25' cable. Gunmetal finish. Threaded $\frac{3}{8}$ "-27. Output, —56 db. Available in chrome finish at no extra charge. Specify when ordering, A3602. SR80n. 200 ohm model.

A3603. SR80Hn.
 High impedance model, **\$3920**
 List, \$80.00.
 NET EACH.....

KONTAK MIKES FOR MUSICAL INSTRUMENTS

For use with all string or percussion type instruments. Can be quickly attached to any amplifier or radio. Exceptionally fine frequency response. Permits covering large area with small amplifier.

STANDARD MODELS

Type SKH. Frequency response from 60 to 6,000 cycles per second. High impedance. **\$7.06**
A3606. NET.....
Type KKH. Fig. A. As above, but with hand volume control. High impedance. **\$10.58**
A3607. NET.....

DE LUXE MODELS

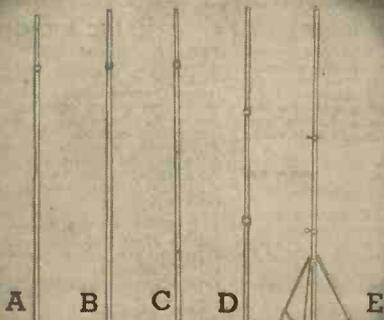
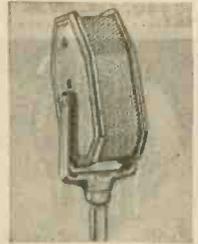
TYPE KTH. Fig. C. High Impedance; 40 to 9,000 C.P.S. **\$12.94**
A3604. NET.....
TYPE KKHH. As above, but with hand volume control. **\$16.46**
A3605. NET.....

A3608. Fig. B. Foot pedal volume control for all models, NET \$7.06
A3609. Booster Transf. Works Kontak through radio, \$1.76
A3610. Kontak Clamp. Clamps Mike to String Inst. NET 59c
A3611. Kontak Strap. Straps Mike to Wind Inst. NET 59c

MODEL RAH VELOCITY

A very popular, excellent Velocity microphone which answers the demand for a high-quality unit at a moderate price. Outstanding in performance. Excellent for both speech and music. Construction minimizes feedback. Frequency range of 60 to 7,500 C.P.S. Output, —68 DB. Fitted with heavy shock absorbers.

A3612. Model RAH. (high imp.) 12' cable. **\$12.94**
 NET.....
A3613. Model RAL. Same as Model RAH above, but low impedance (200 ohm) type. With 8 feet of cable, **\$12.94**
 NET.....



QUALITY MICROPHONE FLOOR STANDS

Floor stands to suit every need. Adjustable in height. Heavy bases prevent tipping. Lock prevents extended section from slipping.

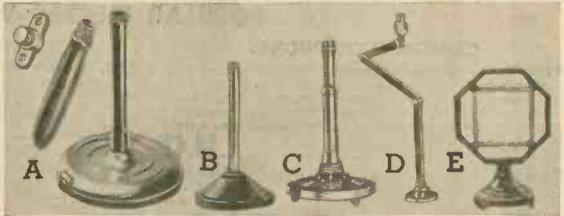
STANDARD ADJUSTABLE
FIG. A. Chrome-finished telescopic stem. Grey crinkle-finished, 10", 10 lb. base. Adjustable from 35 to 68 inches. Threaded $\frac{3}{8}$ "-27. Positive clutch action prevents slipping. Shipping weight, 15 lbs. **\$3.60**
A10550. NET.....

DE LUXE ADJUSTABLE
FIG. B. Base and telescoping standard finished in highly polished chrome. 10" diameter base, weighs 10 lbs. Height adjustable from 37 to 70 inches. Positive action clutch locks stem in place. Shpg. wt., 13 lbs. **\$4.65**
A10551. NET.....

DE LUXE TAKE-DOWN
FIG. C. Collapsible, three-section take-down stem finished in chrome. Can be assembled or taken apart in a few seconds. Each section has male thread to fit base; provides correct height for any purpose in a jiffy. May be used as a banquet type or floor stand. 10", 10 lb. base. Adjustable, 20 to 59". Shpg. wt. 17 lbs. **\$5.45**
A10553. NET.....

DE LUXE 3 SECTION
FIG. D. A high-quality telescoping microphone stand finished in an attractive satin hand-brushed bright metal. 3 section stem allows extension from 25" to 60". Unusually stable 10" diameter base weighs 11 lbs. Newly developed clutches have fiber inserts which prevent any possibility of stem slipping after adjustment is made. Shpg. wt., 14 1/2 lbs. **\$5.25**
A10545. NET.....

FOLDING TRIPOD
FIG. E. Music type folding tripod stand of heavy material. 20" base spread. When folded, requires only 21" of space. $\frac{3}{8}$ "-27 thread. Rubber feet. Chrome finish. Fully adjustable from 26 to 60", without dismantling. Ideal for use with all types of portable Public Address equipment. Wt., 3 1/2 lbs. **\$4.95**
A10546. 3 Section. NET.....
A10547. 4 Section. Same construction as above but adjustable from 27" to 78". **\$5.35**
NET.....



DESK AND BANQUET MIKE STANDS

Stands of all popular types for banquet table and executive's desk. Wide selection permits suiting personal preference. Attractively designed.

10" DESK STAND
FIG. B. 10" Desk Stand. Well-finished in highly polished chrome. Has standard $\frac{3}{8}$ "-27 thread. Base is finished in grey wrinkle. Stem right height to place microphone at proper level. Wt., 6 lbs. **\$1.10**
A10559. NET.....
A10564. Same construction as described above, but both stem and base are finished in chrome. **\$1.45**
NET.....

ADJUSTABLE BANQUET
FIG. C. A deluxe microphone stand for crystal mikes. Telescopic, two section type. Chrome base and stem. Adjustable from 16" to 27". Shpg. wt., 7 lbs. **\$2.75**
A10560. NET.....

FLEXIBLE PBX ARM
FIG. D. Desk or telephone arm. Mounts top or side. Pivots and revolves at base and tilts up or down at 4 pivotal points. Extended length 21". Chrome finish. **\$1.95**
A10548. NET.....

3 WAY STAND
FIG. A. Comb. desk, hand or suspension type. 1—6" Chrome Stem with Base, 1—Handle, 1—Suspension Link. Wt., 4 lbs. **\$1.95**
A10554. NET.....

FOR CARBON MIKE
FIG. E. Octagonal ring $\frac{5}{16}$ " in dia. Black wrinkle finish. With 8 springs. Wt., 4 lbs. **\$1.32**
A10561. NET.....

SHOULDER MIKE CARRIER



A new type shoulder microphone carrier having many advantages over the neck-band type. Unusually fine design. Weighs only 11 oz. Adjustable stem with ball and socket joint allows fixing mike height and position. Heavy wire mounts fit comfortably over shoulders. Especially ideal for Mobile P.A. installations. **\$1.79**
A10549. NET.....



CARBON MIKE RING
FIG. A. $\frac{6}{16}$ " dia. Chrome finish. Supplied with 8 springs $\frac{3}{8}$ "-27 thread. Wt., 3 lbs. **\$1.25**
A10555. NET.....

MIKE HANDLE
FIG. B. Makes any mike a hand mike for portable use. $\frac{3}{8}$ "-27 thread. 5" long. Wt., 1 lb. **\$25c**
A10556. NET.....

MICROPHONE ACCESSORIES



MICROPHONE TRANSFORMERS

EXTERNAL INPUT

Compact transformer with balanced winding; couples all low impedance microphones to high impedance amplifier grid circuit. Completely shields all connections by metal cover. Especially designed for high-gain work.

A3919. NET. \$3.53

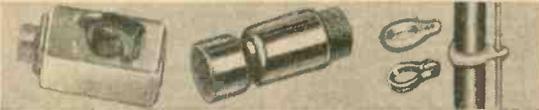
COUPLING TYPE

A6050. For single button carbon microphone. Hi-impedance secondary for connecting into grid circuit of amplifier. Fully shielded construction.

A6051. Same as above, but double-button type. Fully shielded. These are of the finest construction. NET EACH. \$1.32

2 BUTTON

Fully shielded, double-button carbon microphone transformer. Primary, 200 ohms each side of center-tap. High impedance secondary for connecting directly into grid circuit of amplifier stage. Has flexible wire leads. A3918. NET. \$2.06



STAND SWITCH

For use with any type microphone. Fits any standard 3/4" x 27 thread ed stand. Dependable toggle type switch permits cutting mike in or out of circuit without disturbing gain control setting. Case 2 1/2" high finished in satin black. Model A80B. Made by "Shure." An effective method of control. A9878. NET. \$1.47

SHOCK ABSORBER

Prevents floor vibrations from reaching microphone. A necessity with all mikes. Made of heavy brass with polished chrome finish. Has live gum-rubber cushions. 3/4" x 27 threads, male and female. Will improve microphone performance and stability. A P. A. necessity. A4160. NET. \$1.47

CABLE GUIDES

A9879. Soft Rubber Guide. Keeps mike cords from swinging loose and tangling. Fits all stands up to 1 1/4" diam. Makes a neat installation. NET. 21c

A9891. Safety-Pin Clasp Type. Rubber-covered. Fits tubing up to 1 1/4" diam. NET. 21c



MIKE STAND SWIVELS

FIG. A. These swivels permit tilting the microphone to any angle for obtaining the maximum amount of pickup. Allows adjustment to suit personal preference. Sturdily-made; Chrome-finished.

A7583. 1/2" pipe to 3/8" x 27.
A7584. 1/2" pipe to 1/2" x 27.
A7585. 3/4" pipe to 3/8" x 27.
A7586. 3/4" pipe to 1/2" x 27.
NET EACH. 59c

RECEPTACLES AND PLUGS

Standard receptacles and plugs set in heavy aluminum shells. Receptacle extends 1 3/8" above and plug recessed 1 3/8" below surface.

A3881. FIG. C. Standard Plug. NET EACH. 21c

A3882. Polarized Plug. NET EACH. 21c

FIG. C. Receptacle. Accommodates both plugs above. One elongated slot, one standard. A3880. NET. 21c

MICROPHONE SPRINGS

FIG. E. Highest quality tempered steel springs for mounting microphone in ring holder. A7557. Set of 8. NET. 15c



QUALITY MICROPHONE CABLE

UTILITY CABLE

A weatherproof cable fully protected against all outdoor climatic conditions. Individual conductors are of high grade stranded copper, rubber-covered with full cotton serving. Completely shielded. Heavy rubber covering; will stand up under most severe conditions of use. Ideal for outdoor sound installations, portable microphones, etc.

CAT. NO.	Cond.	PER FT.	100 FEET
A3514	2	3 1/2c	\$2.65
A3515	3	4c	3.70
A3516	4	5 1/2c	4.85

See Pages 138 to 140 for additional cable listings of all types. Our cable stocks are always complete; quick turnover assures you of freshness and top quality.

HIGH IMPEDANCE

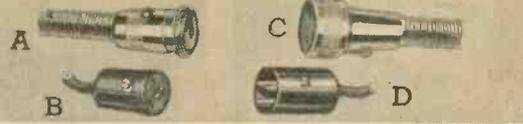
For crystal, dynamic and velocity mikes. Internal conductor made of highest quality stranded copper wire. Live rubber outer covering assures ample flexibility. Completely shielded. Dependable mike cable at truly low prices.

SINGLE CONDUCTOR

A2499. PER FOOT. 4c
PER 100 FEET \$3.25
NET

DOUBLE CONDUCTOR

A2498. PER FOOT. 5 1/2c
PER 100 FEET \$4.10
NET



HIGH-GRADE CABLE CONNECTORS

SINGLE CONDUCTOR

Ruggedly constructed, chrome finished plugs and receptacles. Equipped with spring cord protectors and coupling ring lock.

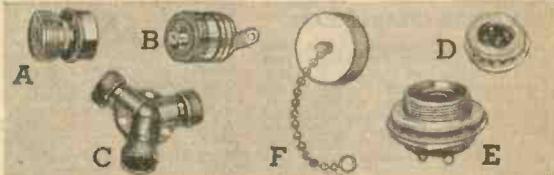
A4161. FIG. A. Plug. NET. 24c

A4162. FIG. C. Receptacle. NET. 29c

MINIATURE TYPE

Molded bakelite connectors housed in cadmium-plated brass shells. 1 1/2" long. 1 1/2" outside diameter. Bakelite element held in place by set-screw. For cables up to 1/4".

Fig. D. Male	Contacts	Fig. E. Female	NET
A3876	3	A3878	18c
A3877	4	A3879	19c



CHASSIS CONNECTORS

A4163. Fig. A. Standard for single conductor microphone cable. Threaded shank 3/8" x 24. NET. 18c

A3875. Fig. B. Closed circuit connector. When cable connector is removed, circuit automatically closes. NET. 24c

A4164. Fig. C. Connects two microphones or speakers in parallel to a single input or output of an amplifier. NET. \$1.18

COMPACT CONNECTORS

Chassis connectors which mount in 1 1/2" hole. With knurled mounting ring, washer and locking nut. Well-made for dependable service.

Fig. D. Male	Contacts	Fig. E. Female	NET
A4167	3	A4165	29c
A4168	4	A4166	32c

A4169. FIG. F. Cap and Chain. For sealing chassis connector outlets. Polished chrome-plated brass cap. NET. 29c



MICROPHONE CONNECTORS

Machined heavy brass shell, finished in polished chrome. Male section carries coupling ring; female section, coupling thread. Both polarized; may be securely locked together. Contacts are of sturdy bronze molded in genuine bakelite. The standard connector for mike cables, housings. Bakelite elements are interchangeable. For use on standard microphone housings or as mike cable connector.

Fig. B. Male	Contacts	Fig. A. Female	NET
A1965	3	A1967	59c
A1966	4	A1968	65c

ARMORED CONNECTORS

Sturdy, heavy-duty connectors for microphone cables. Molded bakelite body encased in substantial metal shell. Ideal for places where rough usage would result in breakage of the ordinary type plug or socket. Polarized type; prevents possibility of making incorrect connection. Substantial knife-blade contacts will handle up to 10 amperes at 250 volts. Spring insert in socket assures positive contact. Adjustable clamp grips cable firmly. A7579. FIG. C. 3 Prong Plug. NET. 48c

A7578. FIG. D. Polarized 3 Prong Socket. NET. 69c



SHIELDED PLUG AND JACK

FIG. A. Fully insulated 2 and 3 circuit plugs and jacks. Plug only illustrated. Nickel-plated brass.

2 CIRCUIT
A5666. PLUG. 44c
A5667. JACK. EACH. 44c

3 CIRCUIT
A5668. PLUG. 59c
A5669. JACK. EACH. 59c

MIDGET JACK

FIG. C. A three contact microphone jack especially designed to fit the plug described to the left, above. Sturdy spring construction assures positive contact. A3883. NET. 21c

3 WAY PLUG AND JACK

FIG. B. For use in any two or three conductor, microphone-input circuit. Plug has a polished bakelite barrel. Long metal jack has sturdy phosphor-bronze springs which make positive contact with plug. Mounts in a single 1/2" panel hole. A8957. PLUG. NET. 39c
A8958. JACK. NET. 35c

PORTABLE JACK

FIG. D. Insulated portable jack for microphone extension cords. Black bakelite shell. A5665. NET. 35c

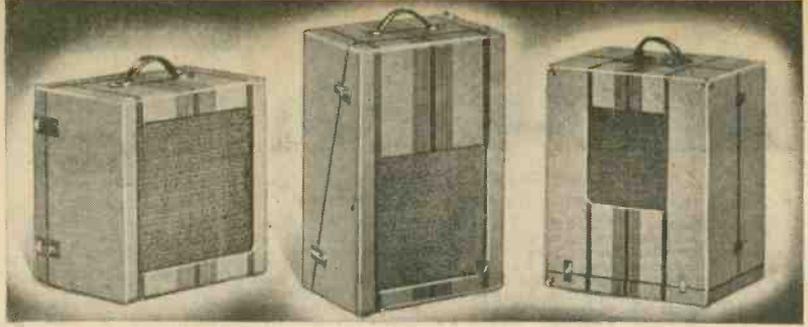
PORTABLE CARRYING CASES



AMPLIFIER-SPEAKER CASE

A sturdy, all-purpose case. Just what you have been looking for to house your present amplifier and speaker. Has convenient carrying handle. Handsome tan airplane-cloth covering. Weatherproof. Has grille for 12" speaker, covered with attractive cloth. Grille is backed with heavy metal screen. Special blocks with strap holders permit carrying desk type mike stand. Web straps hold speaker cable in place. Inside size: 23 1/4" x 21 1/4" x 11". Shpg. wt., 18 lbs.

A12061. NET.....\$5.95



SINGLE SPEAKER CASE

An attractive case for any 12" dynamic speaker. Ideal for portable sound systems. Speaker opening with grille cloth is backed with heavy metal screen. Removable back fitted with snap-type trunk clasps. Constructed of heavy plywood. Has carrying handle; with rubber feet on bottom. Inside size: 12 1/4" x 12 1/4" x 8 1/2". Shpg. wt., 9 lbs. A popular case with thousands of P.A. users.

A12066. NET.....\$3.50
A12064. Similar to above but covered in red leatherette with circular grille. NET.....\$2.25

DUAL SPEAKER CASE

Permits easy carrying of two 12" speakers. Case divides into separate units, serving as baffles when speakers are in use. Has attractive airplane cloth covering and sturdy carrying handle. Speaker grilles are backed with heavy metal screen. Heavy plywood construction; snap-type trunk clasps; rubber feet on bottom of each section. Extremely compact and portable. An exceptionally well-made carrying case at a remarkably low price. Size inside closed, 20" x 12 1/4" x 8 1/2". Wt., 12 lbs.

A12065. NET.....\$5.75

SPEAKERS-AMP. CASE

Designed to make most large sound systems completely portable. Use it for your present amplifier and accessories. The attractive airplane cloth-covered case has ample room to carry amplifier and two 12" dynamic speakers. Separates into three units, two of which serve as speaker baffles; holds amplifier in bottom section. All units fasten securely together with heavy trunk clasps. Heavy plywood with reinforced corners. Inside size: 25 x 20 1/2 x 15". Shpg. wt., 28 lbs. An unusually well-built and extremely handy case.

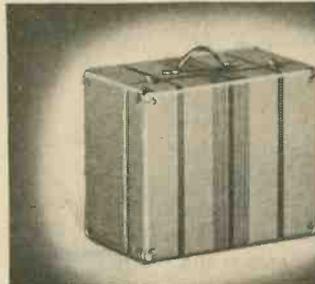
A12063. NET.....\$9.25



AMPLIFIER CASE ONLY

This case has been especially designed to house any 1940 Knight amplifier. Will also give portability to other amplifiers of similar dimensions. Construction is of heavy plywood with reinforced corners. Handsome airplane-luggage finish. With convenient carrying handle. Inside measurements: 21" x 15" x 13 1/4". Shpg. wt., 13 lbs. Here's a real value in a dependable portable case.

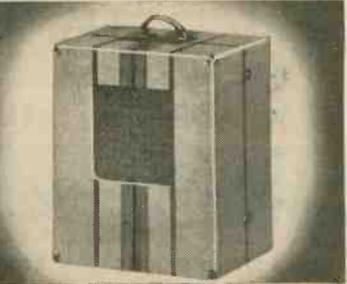
A12059. NET.....\$5.95



PHONOGRAPH CASE

An attractively designed case for housing phonographs. Construction is of sturdy plywood for long, hard usage. Has blank motor board. Finished in handsome, durable airplane-luggage material with tan tued effect and harmonizing maroon striping. Corners are reinforced for added strength. Inside size: 16 1/4" x 13" x 9". Shpg. wt., 13 lbs.

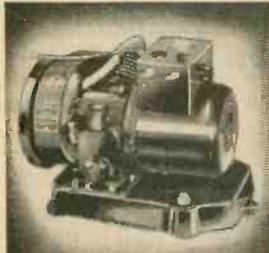
A12068. NET.....\$4.75



AMPLIFIER-SPEAKER CASE

Will accommodate Knight 14 and 30 watt Economy amplifiers and one or two 12 inch speakers. Heavy plywood construction throughout. Speaker openings have protective cloth grille. Has attractive airplane luggage finish and sturdy carrying handle. Snap-type trunk clasps. Inside measurements: 21 1/2" x 17 1/4" x 12 1/4". Shpg. wt., 21 lbs.

A12060. NET.....\$6.95



PIONEER 300 WATTS A.C. GAS-ELECTRIC PLANTS

Here is the ideal solution to the problem of using standard 110 volt A.C. amplifiers and sound equipment in advertising trucks and cars. Super-efficient, dual-purpose power plants provide constant A.C. voltage output with additional D.C. output for charging a 6 volt storage battery if desired. Engine is 4 cycle, air-cooled 3/4 H.P. type with built-in governor to maintain constant speed. Tank holds one gallon of gasoline; enough to operate engine for 12 to 16 hours. Generator is dual type, supplying 110 volts 60 cycle A.C. and battery charging D.C. Load capacity of A.C. generator is 300 watts; 200 watt D.C. capacity. Units are ideal for operating amplifier, phono

units, and for sign-lighting purposes. Can be used while truck is in operation. Self-starting type with kick-pedal. Size: 19 1/2" x 14" x 14". Wt., 120 lbs. A dependable plant.

A10953. Type BD6. NET.....\$58.35
A10954. Type BDR6. Same as BD6 unit but with remote control push-button starting and stoppings. NET.....\$78.70

SEE PAGE 68 FOR ADDITIONAL POWER CONVERTERS AND GAS PLANTS



240 WATT 6 VOLT POWER CHARGER

A new development in Lighting Plants that gives you higher power at lower cost. The patented semi-Diesel type engine is designed to operate efficiently and economically on gasoline, kerosene, or fuel oil. Outstanding advantages are: no valves, tappets, carburetor, valve springs, timing gears, or chance of running out of oil. Complete unit is automatically lubricated. It is smoother running than any other engine of its type on the market, assuring you of long life and years of satisfaction and service. A 6 volt storage battery (not supplied) and a push-button permit self-starting. Has automatic cut-out. Engine is

coupled directly to generator. Latter is equipped with 4 poles and 4 brushes. Output is 240 watts at 6 V. D.C. This is sufficient power to furnish lights for the average 6 room house. Unit is attractively finished in red. Fully guaranteed for 6 months against defective workmanship and material. Approx. shpg. wt., 75 lbs.

A10963. NET.....\$35.25
SEE PAGES 66 AND 68 FOR BATTERIES AND FARM LIGHTING ACCESSORIES

KNIGHT PROJECTORS, BAFFLES, Etc.



8" PROJECTOR

A specially designed unit for obtaining fine sound reproduction. Enables even distribution of sound for maximum efficiency. Will not rattle at any operating frequency. Construction is of heavy spun steel alloy, light in weight, yet very strong. For any 8" speaker. This unit is particularly well-suited for call systems in offices, schools, auditoriums, hospitals, etc. The convenient, adjustable mounting bracket described below permits either wall or ceiling mounting. Fixture to which bracket attaches is malleable iron and welded to the baffle to give additional strength. Bell diameter is 14"; overall length of unit, 17"; flare extension, 9". Beautiful brown crackle enamel finish. Speaker not included. Shipping weight, 5 lbs.

\$6.49

- A10293. NET
 A10294. Bracket for use with above 8" projector. NET 54c



DELUXE STEEL-ALUMINUM

Designed to afford complete speaker protection as well as adequate sound distribution for either outdoor or indoor sound installations. Baffle is made of 18 gauge aluminum. Back is heavy gauge steel. Overall length, 20". Bell diameter, 17". Will take any 11" or 12" speaker. Completely equipped with suspension loops and all necessary hardware. For smaller speakers, use reducer rings listed below. Finished in attractive weather-resisting battleship gray. Shpg. wt., 15 lbs.

\$4.25

- A10290. NET
 A10282. Similar to the De Luxe Model described above, but of all-aluminum construction. Shpg. wt., 10 lbs. NET **\$3.50**
 A10280. Reducer ring for 8" speaker. NET EACH 53c
 A10281. Reducer ring for 10" speaker. NET EACH 53c



DELUXE ALL-STEEL PROJECTOR

Beautifully and ruggedly constructed of sheet steel. Impossible to damage; rattle-proof. Will house all types of 12" speakers with or without matching transformers. Steel-spun in two sections, bell flare and speaker housing. Measures 20" in overall length. Bell diameter 17" with 11" flare extension. With screened breather opening in speaker housing for proper back pressure release. Has baked-on grey art metal finish. Shpg. wt., 8 lbs.

\$6.95

- A10935. Steel Baffle, less bracket. NET
 A10936. Mounting Bracket for above. NET \$1.24



AUTO TOP & WALL MOUNT

For use with any of the Steel-Aluminum Baffles listed above. Heavy rigid construction. 12" high with cast mounting base. 7" diam. Tilting lock-top permits adjusting baffle to the angle for maximum coverage. Easily mounts on roof of any car.

A10568. Auto top and wall mount finished in black wrinkle. 8 lbs. NET **\$1.95**

A10569. As above but finished in aluminum. Wt. 8 lbs. NET **\$2.95**



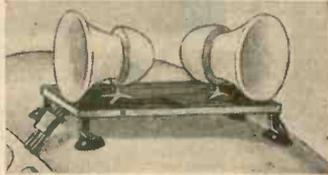
PROJECTOR STAND ONLY

Strong, sturdy floor stand. Swivel permits adjusting from 46" to 76". Has locking type clutch. Collapsible tripod base folds like a music stand. Black enamel finish. Less projector. For use with De Luxe All-Steel Projector A10935, upper right. Shpg. wt., 15 lbs.

A10275. NET **\$5.95**

A10566. As above but for De Luxe Steel-Aluminum baffles above center. NET **\$5.95**

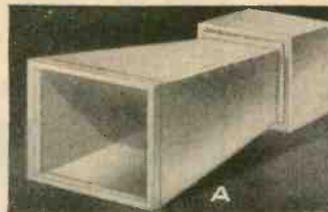
SEE NEXT PAGE FOR ADDED BAFFLE LISTINGS



CAR PLATFORM FOR BAFFLES

Designed for mounting baffles, projectors or horns on roof of auto. Unnecessary to drill any holes, and platform will not mar finish of car in any way. Made of varnished maple fully weather-proofed. Vacuum cups and adjustable straps hold platform firmly in place. Quickly and easily attached or removed from any car. Gives lasting service. Shpg. wt., 8 lbs.

A12515. NET **\$4.35**



LOW-COST DEMOUNTABLE BAFFLES

Fig. A. For use with any 10" or 12" speaker. Will greatly increase sound coverage. Weatherproof construction for either outdoor or indoor use. Bell is 22" x 23" and 25" deep. Supplied less speaker housing. See listing below. Shipped knocked down. Shpg. wt., 15 lbs. Good quality, low cost.

A10270. Baffle only. NET **\$5.00**
 A10271. Speaker Housing only. NET **\$2.35**

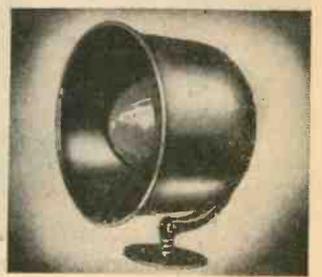


KNIGHT MARINE HORN

Especially designed for weatherproof installations on mobile Sound Trucks, Police and Fire cars, Airports, Stadiums, etc. Bell and housing are spun of heavy gauge steel alloy. Light in weight, yet very strong. Possible physical damage to cone of speaker is eliminated due to its inverted position. The speaker faces the inside of the horn. This type of construction will withstand exposure to rain, snow and wind. Bell opening, 22 1/4"; overall length, 17 1/4"; height from base, 27". Designed to house any 8" speaker or unit. With adjustable mounting bracket. Less speaker.

\$18.14

Quality-built for dependable, and lasting service. Shpg. wt., 25 lbs. A10938. NET **\$18.14**



ATLAS HORNS

A completely new type of weather-proof horn designed especially to withstand severe weather conditions of all kinds. For use with mobile Sound Trucks, Police and Fire cars, etc. Speaker unit mounts in inverted position in heavy steel horn which is acoustically treated.

A10572. WX-8. Horn only for 8" speaker. 18" diam., 12" deep. Less speaker and fixture. 9 lbs. NET **\$9.11**

A10573. WX-8HP. Complete horn with 8", 16 watt speaker. Less mounting fixture. 15 lbs. NET **\$17.05**

A10574. WX-12. Horn only for 12" speaker. 24" diam., 16" deep. Less speaker and fixture. 18 lbs. NET **\$17.64**

A10575. WX-12SP. Complete horn with 12", 20 watt speaker. Less mounting fixture. 24 lbs. NET **\$25.87**

A10576. WXB. Fixture and base for WX-8 horn. 12 lbs. NET **\$3.53**

A10577. WXC. Fixture and base for WX-12 horn. 18 lbs. NET **\$4.12**



WATERPROOF HORN COVERS

Affords protection against rain, snow, dust, etc. Slips over bell opening. Made of water-resisting cloth. With draw string. Shpg. wt., 1 lb.

A10285. For 12 to 16" bell... 95c
 A10286. For 16 to 18" bell... \$1.00
 A10289. For 20 to 24" bell... 1.50

KNIGHT WALL BAFFLES



DE LUXE WALNUT BAFFLES

Recommended for all indoor sound system installations where baffle must harmonize in appearance with fine furnishings. Only the finest hardwood veneers have been used; hand-rubbed to a high piano finish. Has attractive woven gold-thread grille cloth. Provides ample baffle length to allow natural sound reproduction. Measures 16 1/2" high by 14 1/2" wide by 7 1/2" deep at base, 3" at top. Reducers listed at right may be used for mounting smaller diameter speakers. Complete with hardware for wall mounting. These are de luxe baffles in every respect; they are quality-built of select woods and are acoustically correct in design. Shipping weight, 10 lbs.

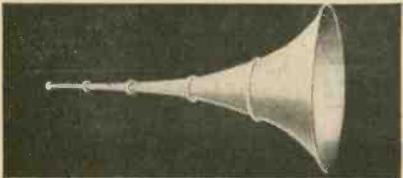
A10930. For 11" or 12" Speakers. NET **\$3.90**
A10931. For 8" Speakers, 12" x 10 1/2" x 5". Shpg. wt., 6 lbs. NET **\$2.35**



KNIGHT HORN UNIT ONLY

Efficient 8" driving unit for horn type baffle. A ruggedly-built, high-fidelity unit suitable for use with any shape of horn projector. Completely dust-proof. High quality permanent-magnet weighs approximately two pounds. Exceptionally high force factor assures high efficiency which produces maximum coverage with a minimum of driving power. Capable of handling 15 watts of power with peaks of 18 watts. Accurately centered voice coil has an 8 ohm impedance and is 1 1/4" in diameter. Less matching transformer. Wt., 6 1/2 lbs.

A10945. NET **\$7.35**



3 1/2 FOOT TRUMPET MODEL

Exponential 3 1/2 foot all-aluminum bell projector of accurate design and high efficiency. For use in projecting sound over large areas. Mechanically rigid to prevent resonant effects. Brass couplings are provided for attaching driver units having a standard 1 1/2"-18 thread. Overall length, 42". Bell opening, 3 1/2". A durably-built trumpet that will give exceptionally dependable service under any kind of operating conditions. Acoustically correct in design and offered at an unusually attractive price.

Shpg. wt., 11 lbs. **\$16.17**
A10942. NET



PERMANENT-MAGNET DYNAMIC UNIT

A superior unit capable of handling a full 20 watts of audio power. "Alnico" magnet weighs 64 oz. High degree of sensitivity. Voice coil gap alignment permanently fixed so that it cannot shift. With tempered, heat-treated, duralumin diaphragm. Voice coil impedance, 15 ohms. Standard 1 1/2"-18 threaded throat. Shpg. wt., 12 lbs. One of the most dependable dynamic units ever built.

A10944. NET **\$26.46**

FINE VALUES IN FABRIKOID WALL BAFFLES

STANDARD BAFFLES

An excellent value in an enclosed speaker baffle. Inclined face provides correct coverage over greatest area when mounted at usual height above floor. Made of strong plywood covered with dark brown leatherette fabrikoïd. Baffle length sufficient for reproduction of low frequencies in musical selections. Rigid construction prevents resonant vibration. Reducers may be employed with smaller diameter speakers.

A10926. For 11" or 12" Speakers. 17" h. x 13 1/2" w. x 8" d. Shpg. wt., 6 lbs. NET **\$1.95**

A10927. For 8" Speakers. 11" h. x 9 3/4" w. x 6" d. Shpg. wt., 4 lbs. NET **\$1.65**

A10932. Reducer for 10" Speakers. For use with A10926 baffle. NET **\$2.50**

DE LUXE MODEL

An efficient inclined speaker baffle finished in attractive brown fabrikoïd covering. Universal inclined front panel correctly designed to project sound over maximum coverage whether mounted near ceiling or placed at floor level. Has attractive black and gold grille cloth. Speaker opening is protected by ornamental reinforcing bars. Constructed of carefully selected plywood with reinforcement along inside edge. Sturdy construction prevents resonant rattles. Ample baffle length to reproduce the lowest frequencies with full fidelity. Use reducers to accommodate smaller diameter speakers.

A10934. For 11" or 12" Speakers. 17" h. x 14" w. x 9" d. NET **\$2.75**

A10933. Reducer for 6" Speakers. NET **\$2.50**

TRUMPET & UNIT

For all P.A. applications where full audio power must be projected directly toward definite audience. Scientifically designed horn and bell allows gradual expansion of sound wave-front which prevents the type of distortion due to turbulent-air eddy currents. Ideal for "Election Campaign" sound trucks, athletic fields, etc. Horn is made of spun-steel. Will withstand 300 pounds pressure, yet is easily portable and light in weight. Bell diameter, 24"; length of horn, 36". Equipped with 15 watt unit described at left. Unit is of Permanent Magnet Dynamic type which does not require field excitation. Advanced design of unit assures highly efficient operation. Iron mount is welded directly to trumpet for greater strength. Mount is threaded to receive 1/2" standard pipe. Sound truck bracket may be built of 1/2" pipe and connected to horn with 1/2" nipple and flange, or bracket listed below may be used. Shpg. wt., 17 lbs.

A10928. Horn With 15 Watt Unit. NET **\$24.95**

A10929. Adjustable Crow-Foot Bracket. NET **\$1.98**

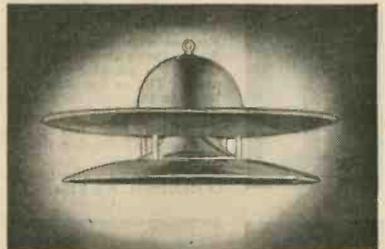
ALL-ALUMINUM BELL TRUMPETS

True Exponential Bell Trumpets of non-resonant, heavy-gauge spun aluminum. Flat frequency characteristic is assured by scientifically accurate design. Connecting sections are protected with heavy gaskets to prevent rattle. Finished in a durable aluminum lacquer which provides absolute protection against weather.

6 FOOT MODEL

An exceptionally well-designed trumpet with an overall length of 72". Bell section is of smoothly spun heavy-gauge aluminum with a heavy beading around edge which strengthens construction. Bell opening, 23". Brass coupling same as in 3 1/2 foot model. Ideal for powerful Public Address coverage. Absolutely dependable and effective for all installations. Shpg. wt., 21 lbs.

A10943. NET **\$32.34**



CHANDELIER SPEAKER EQUIPPED WITH BAFFLE

An entirely new baffle design giving 360° coverage; helps reduce feedback. Easily installed; eliminates the use of multiple speaker clusters. Houses a 12" permanent magnet dynamic speaker with voice coil impedance of 6 ohms. Heavy gauge steel spinings are finished in a pearl gray enamel. Matching transformer with 500, 1000, 1500 and 2000 ohm primary supplied. Overall dia., 31"; height, 14". A cleverly designed highly efficient new speaker and baffle design that will give wonderful sound coverage with the greatest confidence in installation. Shpg. wt., 26 lbs.

A10947. Speaker and Baffle. NET **\$24.40**

A10948. Baffle only. Wt., 21 lbs. NET **\$16.17**

5-INCH MODEL

Similar in construction to the model listed above. Particularly suited for communication and paging systems. Has 5" permanent magnet dynamic speaker with voice coil impedance of 3.2 ohms. 17" dia., 7" high. Shpg. wt., 3 lbs.

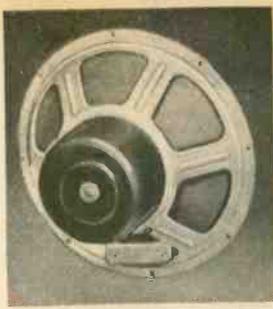
A10949. Speaker and Baffle. NET **\$7.35**



FIELD EXCITER UNIT

An exceptionally useful field supply unit, using a type 80 tube as a rectifier. Suitable for converting a D.C. speaker field to A.C. operation. Furnishes 15 watts of pure D.C. under normal use. Components mounted on metal chassis. Transformer placed above chassis to provide adequate ventilation. Special filter reduces hum to an inaudible minimum. With 110 volt, 60 cycle transformer. Size, 3 1/2" x 9" x 4 1/2" high. Wt., 5 lbs. Less tube. A dependable Field Exciter offered at a really attractive low price. Less tube.

A9482. NET **\$2.94**



STANDARD TYPES

Standard types are suitable for all moderate power requirements. Heavy pressed steel frame assures perfect voice coil alignment. All types have fully enclosed magnet and voice coil assembly for adequate protection against dust. Less transformer.

- A12485, Knight 8" P. M. Speaker, Normal rating, 5 watts. Shpg. wt., 4 lbs. NET..... **\$2.25**
- A12393, Line transformer, .55c
- A12394, Output transformer 55c
- A12486, Knight 12" P. M. Speaker, Normal rating, 9 watts. Shpg. wt., 7 1/4 lbs. NET..... **\$3.95**
- A12396, Line transformer, .75c
- A12397, Output transformer 75c

KNIGHT P. M. DYNAMICSPEAKERS

These powerful, Permanent Magnet type dynamic speakers have been designed to provide faithful reproduction of voice or music at high volume levels. An entirely new type of magnet construction provides exceptional sensitivity and unequalled high fidelity response. Ideally suited for use wherever quality reproduction combined with power-handling ability must be had at reasonable cost. Voice coil impedance, 6-8 ohms. These speakers are especially designed for brilliant reproduction of voice and music, either indoors or outdoors.

HEAVY-DUTY TYPES

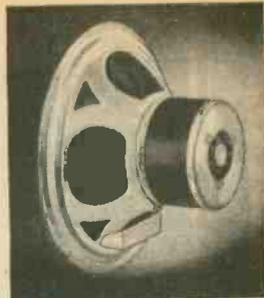
These speakers are designed for use in high level systems. Special magnetic core material produces a strong field. Provision is made for mounting transformer on speaker frame. Less transformer.

- A12487, Knight 12" P. M. Speaker, Normal rating, 12 watts. Shpg. wt., 9 1/2 lbs. NET..... **\$6.67**
- A12396, Line transformer, .75c
- A12397, Output transformer, .75c
- A12488, Knight 15" P. M. Speaker, Normal rating 24 watts. Shpg. wt., 19 lbs. NET..... **\$17.38**
- A12398, Line transformer, .75c
- A12395, Output transformer, .75c
- NET EACH..... **\$1.10**

UTAH PERMO-DYNAMIC SPEAKERS

These P. M. speakers represent the last word in Permanent Magnet design and must be heard to be appreciated. Extremely high efficiency and sensitivity are achieved through the use of a newly developed through the use of a newly developed magnet. The entire voice coil assembly is completely covered for protection against dust and dirt. Each of these units equals or surpasses the performance of the same size of electro-dynamic speaker. Conservatively rated. Less output transformer. Select output transformer from list below.

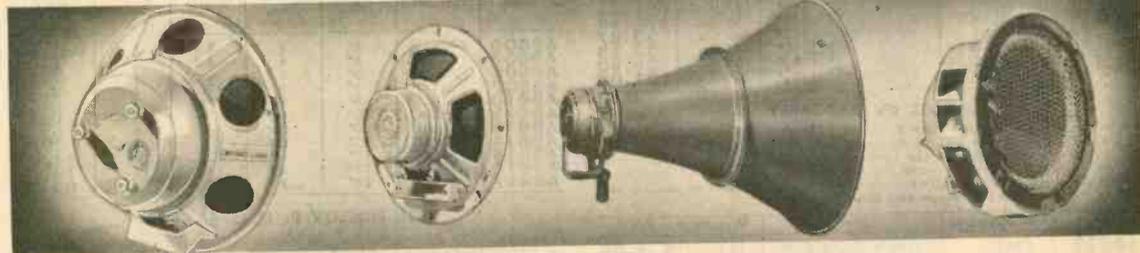
- A12470, Type G8P, 8" Cone, 10 watt input, 6-8 ohms impedance. Shpg. wt., 4 1/2 lbs. NET..... **\$4.70**
- A12471, Type E12P, Normal input, 13 watts; peak, 20 W. Cone size, 12", 6-8 ohms impedance. Shpg. wt., 6 1/2 lbs. NET..... **\$7.35**
- A12472, Type F12P, Normal input, 16 watts; peak, 24 watts. Cone, 12", 6-8 ohms impedance. Shpg. wt., 8 lbs. NET..... **\$8.23**
- 8 1/4 lbs. NET.....



- A12473, Type G12P, Normal input, 17 watts; peak, 26 watts. Cone, 12" dia. Voice coil impedance, 8 ohms. Shpg. wt., 9 3/4 lbs. NET..... **\$10.88**
- A12474, Type G512P, 64 oz. magnet, Input, 20 watts; 30 watts peak, 12" dia. cone. Voice coil impedance is 8 ohms. Shpg. wt., 12 1/4 lbs. A real heavy-duty type P.M. Dynamic. NET..... **\$14.70**

TRANSFORMERS FOR ABOVE SPEAKERS

- A12475, Line transformer for G8P and E12P..... **88c**
- A12477, Universal plate transformer for G8P and E12P..... **88c**
- A12478, Line transformer for F12P and G12P..... **\$1.15**
- A12479, Universal plate transformer for F12P and G12P..... **1.15**
- A12480, Line transformer for G512P..... **1.32**
- A12481, Universal plate transformer for G512P..... **1.32**



FAMOUS CINAUDAGRAPH "MAGIC-MAGNET" SPEAKERS

PERMANENT MAGNET SPEAKERS

MA 6-8

Ideal for public address installations where power capacity up to 8 watts is sufficient. Range, 8000 cycles. 6" cone. Voice coil impedance, 6 ohms. Less transformer. Wt., 2 lbs. NET..... **\$2.47**

EZ 8-7

An 8" reproducer giving superior performance. Frequency response up to 8000 cycles, 5-8 watt input. Voice coil impedance, 6 ohms. Less transformer. Wt., 3 1/4 lbs. NET..... **\$4.41**

EZ 8-10

Has a more powerful magnet than the EZ-8 speaker. Minimum harmonic distortion. Input, 6-8 watts. 8" cone. Voice coil, 6 ohms. Less transformer. Wt., 4 1/4 lbs. NET..... **\$6.17**

NZ 10-7

Larger diaphragm extends the low frequency response for good quality performance at low cost. Input, 7-9 watts. 6 ohm voice coil impedance. 10" cone. Less transformer. Shpg. wt., 4 1/2 lbs. NET..... **\$5.29**

NZ 10-10

Large, powerful magnet produces greater power-handling ability. Ideal for high class equipment where portability, light weight and excellent response are required. Input power, 8-10 watts. 6 ohm impedance. Less transformer. Wt., 5 1/2 lbs. NET..... **\$7.20**

FZ 12-7

A low-cost speaker incorporating many of the advantages of a large cone. Input, 7-9 watts, 12" cone. Voice coil, 6 ohms. Less transformer. Shpg. wt., 6 1/2 lbs. NET..... **\$7.35**

FB 12-11

A 12" speaker ideal for public address installations where moderate power is necessary. Input, 12-18 watts. Voice coil impedance, 6 ohms. Less transformer. Shpg. wt., 8 1/2 lbs. NET..... **\$10.88**

FY 12-12

Designed for outdoor and indoor P. A. installations. 7 1/4 lb. "Niper-mag" magnet. Power input 15-18 watts. 6 ohm voice coil. 12" cone. Less transformer. Shpg. wt., 10 1/2 lbs. NET..... **\$16.17**

HW 13-13

A speaker of great power-handling ability. Uniform response from 30 to 9000 cycles. Input 20 to 30 watts. 8 ohm voice coil. 13" cone. Less transformer. Shpg. wt., 42 lbs. NET..... **\$35.87**

SU 18-12

The ultimate in speaker development. Combines large power-handling ability with uniform frequency response. Flat from 30 to 10,000 cycles. Input power from 30 to 35 watts. Voice coil impedance, 8 ohms. 18" cone. Less transformer, 64 lbs. NET..... **\$58.80**

AIR COLUMN UNITS

Designed to withstand the rigorous conditions imposed by weather in outdoor installations. Units are of P. M. type. Supplied less transformer.

FYA

Input from 15 to 20 watts. Flat response from 100 to 6000 cycles. 8" cone. Voice coil, 6 ohms. Shpg. wt., 8 lbs. NET..... **\$18.23**

HWA

Power input, 25 to 30 watts. 10" cone. Flat response from 100 to 7000 cycles. 6 ohm voice coil. Shpg. wt., 27 lbs. NET..... **\$32.93**

SUA

Response to 8000 cycles. Size of cone, 10". Input, 30 to 40 watts. 6 ohm voice coil. Shpg. wt., 36 lbs. NET..... **\$53.80**

EXPONENTIAL HORNS

Designed for use with air column units above. Strongly built to withstand hard service in any type of outdoor installation. Constructed of spun aluminum for greatest strength and lightest possible weight. Ideal for large sound systems at Stadiums, Racetracks, etc., wherever long-range projection is desired for greatest area coverage. Less handles and supporting brackets listed below.

HU

Horns are made in two sections. Equipped with ring bolts. 20" long. Bell diameter, 24". For HWA or SUA units. Wt., 5 lbs. NET..... **\$14.41**

FX

Designed for use with FYA unit listed above or any 8" air column type speaker unit. 28" length, 24" dia. bell. Shpg. wt., 7 lbs. NET..... **\$18.81**

SW

A large horn for use where wide angle coverage is necessary. Use with HWA or SUA above. 30" length with 32" bell. Wt., 11 lbs. NET..... **\$31.16**

HANDLES & SUPPORTING BRACKETS

A10430, Supporting bracket and handle for FYA unit. NET..... **\$2.06**

A10431, Supporting bracket and handle for HWA unit. NET..... **\$2.65**

A10432, Supporting bracket and handle for SUA unit. NET..... **\$3.38**

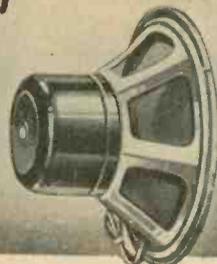
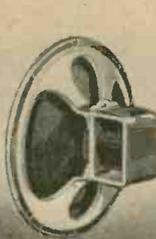
PORTABLE SPEAKER STAND

Ideal for use in temporary installations where conditions do not warrant permanent mounting of loud speakers. Black crackle finish. Stand can be adjusted from 5 to 8 feet. Sure-lock adjustment prevents slipping. Brackets listed above threaded to fit stand. Correct design assures perfect balance; will not tip. NET..... **\$10.29**



Famous Jensen Speakers

**BASS
REFLEX
PERI-
DYNAMICS**



Models KM and KV speaker and cabinet assemblies, containing 8, 10, 12, 15, or 18" speakers, consist of specially designed Jensen Speakers housed in rigidly built, scientifically designed enclosures incorporating both Peri-dynamic and Bass Reflex principles. In the KM Models, extra octaves of low frequency response are made available to an extent not possible even with an infinite baffle. Middle and high frequency response is also noticeably improved. Maximum performance characteristics are obtained at a minimum cost. Use the KM Reproducer for every known application of sound transmission where the requirement is for general high quality performance. All cavity resonance, boom, and vibration are eliminated. Use type KV for life-like reproduction of voice or speech. Speakers supplied less transformers. See listing below at right for suitable impedance-matching transformers.

MODEL KM ASSEMBLY

No.	Speaker	Size	Weight	NET
A9630	PM8C	24" x17 3/4" x11 1/4"	31 lbs.	\$14.41
A9631	PM10C	28" x21 1/2" x12 1/2"	45 lbs.	17.82
A9632	PM12C	30 3/4" x23 3/4" x12 1/2"	53 lbs.	21.23
A9633	PM12B	30 3/4" x23 3/4" x12 1/2"	58 lbs.	28.14
A9634	A12PM	30 3/4" x23 3/4" x12 1/2"	66 lbs.	33.37
A9635	PM15B	33 3/4" x25 1/2" x13 1/2"	83 lbs.	33.28
A9636	A15PM	33 3/4" x25 1/2" x13 1/2"	89 lbs.	39.90
A9629	PMJ18	38 7/8" x27 5/8" x13 5/8"	173 lbs.	101.08

MODEL KV ASSEMBLY

These reproducers incorporate 8, 10, or 12" specially designed speakers in a rigid enclosure of unique design. Bass reflex principle is not used since they are intended for the best possible quality of understandable speech. Low frequency response has been sharply attenuated to accomplish this purpose. Especially recommended for such uses as paging and calling, public speeches, stage and floor shows, etc.

No.	For Speaker	Size	Weight	NET
A9637	PM8C	11 1/4" x 9 3/4" x 6 1/2"	11 lbs.	\$ 9.06
A9638	PM10C	14 1/2" x11 1/2" x 7 1/2"	17 lbs.	11.11
A9639	PM12C	16 3/4" x13 3/4" x 9 3/4"	22 lbs.	13.88
A9640	PM12B	16 3/4" x13 3/4" x 9 3/4"	25 lbs.	20.79

JENSEN KM ENCLOSURES ONLY

Particularly recommended for use with Jensen speakers but may be used with other speakers of the correct size. These KM enclosures will materially improve the tone quality and power performance of any speaker and can be used with either dynamic or P. M. types. Use these high-quality properly designed enclosures where the very finest high-fidelity tonal results are demanded. Ruggedly built and scientifically correct. Enclosures are shipped knocked-down in a convenient package. All necessary assembly screws and hardware are included together with detailed instructions. Require only a screwdriver and a few minutes of time to assemble. Suitable metal hangers for vertical mounting are supplied with each enclosure. Less speaker.

No.	Type	For Speaker	Wt.	NET
A10484	BR81	PM8C	27 lbs.	\$ 9.41
A10485	BR101	PM10C	38 lbs.	11.64
A10486	BR121	PM12C	47 lbs.	13.44
A9641	BR151	PM15B	55 lbs.	15.64
A9642	BR181	PMJ18	85 lbs.	20.58

JENSEN KV ENCLOSURES ONLY

Enclosures may be used with any type of dynamic or permanent magnet speaker but are particularly adapted to Jensen units.

No.	Type	For Speaker	Wt.	NET
A9646	VO-8	PM8C	6 lbs.	\$4.06
A9647	VO-10	PM10C	9 lbs.	4.94
A9648	VO-12	PM12C	12 lbs.	6.09

JENSEN

"L" PADS

Constant impedance "L" type units. Very suitable for mounting on speakers of the Jensen enclosure type. They are designed to be used across the voice coil of the speaker; consequently their use does not cause a mismatch in "line" to primary of output transformer. Controls have an "off" position; negligible pad loss at full "on" position. Gradual, smooth control of speaker output volume between "off" and "on" positions. Shafts, are 1" long for panels up to 3/4" thick. With knob and indicator plate. Handle up to 5 watts. For 6 ohm voice coil.

A9010, Type ST276, NET **73c**

UTAH

"L" PADS

To control volume in all high-level circuits such as loud speakers, phonograph pickups, mixers, P. A. amplifiers, and similar equipment. Wire-wound; rated at 15 watts. Mount in 3/16" hole. 3/4" shaft diameter; 3/8" long.

No.	Type	Ohms	NET
A9011	LA-8	8	EACH
A9699	LA-16	16	
A6970	LA-50	50	
A6971	LA-200	200	
A9012	LA-500	500	
A6972	LA-1000	1000	\$1.91

PERMANENT MAGNET DYNAMICS

Scientifically designed and developed in the laboratories of the world's leading manufacturer of fine reproducers. Smaller units are ideal for replacement purposes, or for original installation in any type of radio receiver requiring the highest quality of reproduction. The larger 10", 12", and 18" units will adequately fill all requirements for full fidelity of reproduction in large radio receivers, Public Address systems, Centralized radio and Sound installations, Call systems, etc. Sturdy frame assemblies are designed to resist vibration and are rustproof for use under all types of climatic conditions. Correctly balanced and aligned voice-coil and cone assemblies are designed for extremely wide frequency range without rattles or annoying resonant peaks. New improved and over-size permanent-magnet type field assemblies of highly magnetized alloy require no external field supply or D.C. exciting voltage. The reproducer units in the following listing may be used with the adjustable impedance-matching transformers listed below, for proper match.

No.	Model	Size Dia.	Voice Coil Imp. Ohms	Watts	Shpg. Wt. Lbs.	NET
A9600	PM5FS	5"	4	2.5	2	\$ 1.59
A9602	PM6ES	6"	4	3.5	3	1.94
A9605	PM6C	6"	6	6.	4	4.70
A9607	PM8DS	8"	4	7.	4	2.73
A9610	PM8C	8"	6	8.	5	5.00
A9612	PM10C	10"	6	9.	7 1/2	6.17
A9613	PM10H	10"	8	10.	8	9.41
A9614	PM12C	12"	6	10.	7 1/2	11.47
A9615	PM12H	12"	8	12.	10	14.70
A9616	PM12B	12"	8	14.	11	14.70
A9617	PMJ18	18"	8	25.	88	80.50

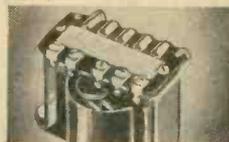
HIGH-FIDELITY P. M. SPEAKERS

Highest quality Jensen Permanent Magnet Dynamic Speakers. Designed for installations which require high fidelity reproduction. Acoustically correct in every detail, these speakers have extended range, greater than the standard models listed above. Response is exceptionally good up to 7500 C. P. S. Have 8 ohm voice coils. Less output transformer.

No.	Model	Size Dia.	Voice Coil Imp. Ohms	Watts	Shpg. Wt. Lbs.	NET
A9619	PM12B	12"	8	14	11	\$14.70
A9621	A12PM	12"	8	15	20	20.43
A9624	PM15B	15"	8	15	15 1/2	17.64
A9627	A15PM	15"	8	17	21 1/2	24.25

ADJUSTABLE IMPEDANCE MATCHING TRANSFORMERS

Permit accurate matching of one or more speakers to any output circuit or line. Clip terminals with flexible lead for instant selection of proper impedance. Tube type is tapped at 4500, 7000, 10,000 and 14,000 ohms. Line type is tapped at 500, 1000, 1500 and 2000 ohms. For single or multiple speaker use.



No.	Type	For Speakers	NET
A11390	Tube	PM5FS, PM6ES	\$0.50
A11391	Line	PM6C, PM8C, PM10C, PM8DS, PM10H	1.32
A11392	Tube	PM6C, PM8C, PM10C, PM8DS, PM10H	1.32
A11393	Line	A12PM, PM12B, PM15B, PM12C, PM12H	1.62
A11394	Line	A12PM, PM12B, PM15B, PM12C, PM12H	1.62
A11395	Tube	A15PM	2.20
A11396	Line	A15PM	2.20
A11397	Line	PMJ18	5.88

JENSEN

"L" PADS

Constant impedance "L" type units. Very suitable for mounting on speakers of the Jensen enclosure type. They are designed to be used across the voice coil of the speaker; consequently their use does not cause a mismatch in "line" to primary of output transformer. Controls have an "off" position; negligible pad loss at full "on" position. Gradual, smooth control of speaker output volume between "off" and "on" positions. Shafts, are 1" long for panels up to 3/4" thick. With knob and indicator plate. Handle up to 5 watts. For 6 ohm voice coil.

A9010, Type ST276, NET **73c**

UTAH

"L" PADS

To control volume in all high-level circuits such as loud speakers, phonograph pickups, mixers, P. A. amplifiers, and similar equipment. Wire-wound; rated at 15 watts. Mount in 3/16" hole. 3/4" shaft diameter; 3/8" long.

No.	Type	Ohms	NET
A9011	LA-8	8	EACH
A9699	LA-16	16	
A6970	LA-50	50	
A6971	LA-200	200	
A9012	LA-500	500	
A6972	LA-1000	1000	\$1.91

P.M. SPEAKER CABLE

Round flexible weather-proof cable. No. 18 16/30 stranded wire, 2 conductors, each rubber-covered and coded, with cotton wrapping and outer live rubber sheath.

A2435, Per Foot **2 1/2c**

100 Feet for \$1.95

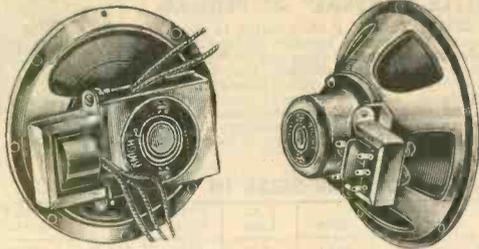
Inexpensive, two conductor rubber-covered cable. No. 18 stranded conductors.

A3412, Per Foot **1 1/2c**

100 Feet for \$1.10

Knight DYNAMIC SPEAKERS — UTAH —

KNIGHT DYNAMIC SPEAKERS



Knight Speakers cost less, work better, and earn more for you. Universally accepted by discriminating servicemen, they are ideal as replacements or as original equipment. All Knight Dynamics are equipped with universal transformers to match any single or push-pull output tube.

5-INCH DYNAMIC

Developed especially for use in the new compact receivers, 6 volt model is ideal for use as a replacement speaker for auto radios. Voice coil is 3/4" in diameter; impedance is 3 3/4 ohms at 400 cycles. Only 5 inches in diameter and 2 1/2 inches deep. Provided with conveniently spaced mounting holes. With universal transformer to match all tubes. Shpg. wt., 4 lbs. A9254. 6 Volt Field. A9284. 1000 Ohm Field. A9255. 3000 Ohm Field. NET EACH..... **\$1.29**

6-INCH DYNAMIC

Adequately fulfills all requirements for fine reproduction in medium-sized sets. Voice coil is 3/4" diameter; impedance is 3 3/4 ohms at 400 cycles. With conveniently spaced mounting holes around rim of speaker. Universal transformer to match any output stage. Shpg. wt., 4 1/2 lbs. A9256. 6 Volt Field. A9257. 1000 Ohm Field. A9258. 1800 Ohm Field tapped at 300 Ohms. A9259. 2500 Ohm Field. NET EACH..... **\$1.65**

8 1/2-INCH DYNAMIC

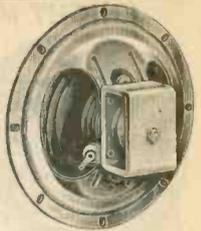
Ideal for all console receivers and small P.A. Systems. Correctly aligned voice-coil and cone assure maximum efficiency. Voice coil, 1 1/4" diameter; impedance is 3 ohms at 400 cycles. Diameter overall is 8 1/4"; only 4 1/4" deep. With universal output transformer. Shpg. wt., 7 lbs. A9260. 6 Volt Field. A9261. 1000 Ohm Field. A9262. 1800 Ohm Field tapped at 300 Ohms. A9263. 2500 Ohm Field. NET EACH..... **\$2.25**

12-INCH DYNAMIC

A well-built, heavy-duty speaker with excellent power-handling ability and superior tone quality. Will efficiently handle 8 watts at full volume without distorting or overloading. Ideal for use in console type receivers, indoor or outdoor Public Address systems, etc. Universal output transformer matches all tubes. Shpg. wt., 8 lbs. for each type. A9265. 1000 Ohm Field. A9266. 1500 Ohm Field. A9267. 2500 Ohm Field. NET EACH..... **\$3.69**

KNIGHT P.M. DYNAMICS

A fine new line of Knight high-quality permanent-magnet dynamic speakers with exceptional features. Extremely sensitive; have surprising high-fidelity reproducing characteristics. Require no field current excitation. Especially suitable for replacement in AC-DC, automobile, or in battery-operated sets. Adaptable for P.A. systems, extension speakers, small factory call systems, and inter-communication equipment. Highly satisfactory tonal results will be obtained with these speakers. Output transformers not included, but holes or brackets for mounting transformers are provided on speaker frame.

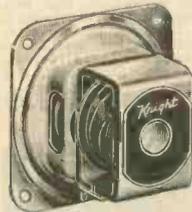


Cat. No.	Speaker Size	Voice Coil	Power Watts	Shpg. Wt.	NET EACH
A9575	3 1/2"	3-5 Ohms	2	1 1/2 lbs.	\$1.35
A9576	5"	3-5 Ohms	3	2 lbs.	1.38
A9577	6"	3-5 Ohms	3 1/2	2 1/2 lbs.	1.58
A9578	6"	6-8 Ohms	4	2 1/2 lbs.	1.80
A9579	8"	6-8 Ohms	5	4 lbs.	2.25
A9580	10"	6-8 Ohms	8	5 lbs.	3.05
A9581	12"	6-8 Ohms	9	6 lbs.	3.65

UNIVERSAL OUTPUT TRANSFORMERS FOR ABOVE

A9590. For 3 1/2", 5" and 6" models. 3-5 ohm voice coils. NET **40c.**
 A9591. For 6" model. 6-8 ohm voice coil. NET **40c.**
 A9592. For 8" model. 6-8 ohm voice coil. NET **55c.**
 A9593. For 10" and 12" models. 6-8 ohm voice coils. NET EACH **75c.**

KNIGHT AC-DC REPLACEMENT DYNAMICS



3 1/2-INCH DYNAMIC

Particularly adaptable for small A.C.-D.C. sets. Has excellent frequency response. With flange mounting. 3 1/2 watts maximum input; 4-5 ohm voice coil. Shpg. wt., 2 lbs. Less output transformer. A9478. 450 Ohm Field. A9479. 2750 Ohm. NET EACH **95c.**



5-INCH DYNAMIC

A very popular replacement type 5" speaker. Will fulfill the requirements of the majority of midger sets. Shpg. wt., 3 lbs. A9480. 450 Ohm Field. A9481. 2750 Ohm Field. NET EACH **95c.**
 A9483. Universal output transformers for above..... **45c.**

UTAH QUALITY DYNAMIC SPEAKERS

MODEL "Q" DYNAMICS

Each model of these new dynamic speakers incorporates every valuable feature of modern design, providing for excellent reproduction so important to real radio enjoyment. Economical and reliable dynamic speakers at low cost.

WITH UNIVERSAL TRANSFORMERS

Their quality construction gives fine frequency response. Each is conservatively rated and has ample power-handling ability. Long efficient life is assured. 5" dynamics supplied less output transformer; have 2 1/2 ohm voice coils.



Cat. No.	Model No.	Size in Inches	Field Ohms	Shpg. Wt. lbs.	NET EACH
A9322	Q506*	5	6	2	\$1.32
A9323	Q530*	5	3000	2	1.32
A9324	Q518*	5	†1800	2	2.00
A9325	Q606	6	1000	3	2.00
A9326	Q610	6	†1800	3	2.00
A9327	Q618	6	2500	3	2.00
A9328	Q810	8	1000	5 1/2	2.70
A9329	Q818	8	†1800	5 1/2	2.70
A9330	Q818	8	2500	5 1/2	2.70
A9331	Q825	8	1000	7 1/4	3.82
A9332	Q1010	10	1000	7 1/4	3.82
A9333	Q1020	10	2500	7 1/4	3.82
A9334	Q1025	10	1000	9	4.41
A9335	Q1210	12	1500	9	4.41
A9336	Q1215	12	2000	9	4.41
A9337	Q1220	12	2500	9	4.41
A9338	Q1225	12	2500	9	4.41

†Tapped at 300 ohms.

*Select output transformer from listing below.

SINGLE OUTPUT TRANSFORMERS

For 5" speakers listed above and new Utah "Lightweight PM" speakers. May also be used for replacements on your old speakers. Compact construction; built for efficient service and splendid tone. A9346. 2000 Ohms impedance. A9347. 4000 Ohms impedance. A9348. 10,000 Ohms impedance. A9349. 25,000 Ohms impedance. NET EACH **35c.**

PERMO-DYNAMIC SPEAKERS

An entirely new line of P.M. Dynamic Speakers with a quality and sturdiness of construction unmatched at these low prices. A newly designed composition magnet provides amazingly high efficiency; each "Permo-Mag" is fully the equivalent of the same size of electro-dynamic speaker. Finest grade components are utilized. Excellent for use in battery and A.C. receivers, Public Address systems etc. Less output transformer. See below for proper output transformer listing.



Cat. No.	Model No.	Size	V. C. Imp.	Normal Watts	Shpg. Wt.	NET EACH
A9268	3P	3 1/2"	3-5	2.5	1 lb.	\$1.59
A9269	5P	5"	6	3	1 1/4 lbs.	1.62
A9270	6P	6"	6-8	4	1 3/4 lbs.	1.94
A9271	8P*	8"	6-8	7	2 1/4 lbs.	2.35
A9272	E8P*	8"	6-8	7	2 1/2 lbs.	2.65
A9273	10P	10"	6-8	9	4 1/2 lbs.	3.67
A9274	12P	12"	6-8	10	5 1/2 lbs.	5.14

*8P has 5 oz. magnet; E8P, 7 oz. magnet.

UNIVERSAL TRANSFORMERS FOR ABOVE

A9280. For 5" speaker. NET EACH **50c.**
 A9281. For 6" and 8" speakers. NET **88c.**
 A9282. For 10" and 12" speakers. NET **88c.**

NEW "LIGHTWEIGHT PM" SPEAKERS

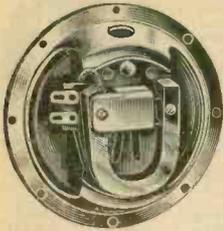
Especially suited for receivers using low-drain tubes. Ideal for replacing old magnetic speakers when used with high impedance transformer. Voice coil diameter, 1/2". Voice coil impedance, 2 1/2 ohms. Less transformer. Select proper transformer from Single Output list at left. Shpg. wt., 1/4 lb.



Cat. No.	Model No.	Size	Magnet Weight	NET EACH
A9275	4PY	4"	1 1/2 oz.	\$0.97
A9276	4PZ	4"	2 1/2 oz.	1.12
A9277	5PY	5"	1 1/2 oz.	1.03
A9278	5PZ	5"	2 1/2 oz.	1.15

MAGNETIC & DYNAMIC SPEAKERS

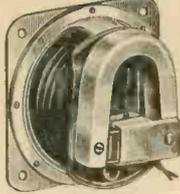
KNIGHT MAGNETIC SPEAKERS



5-INCH MAGNETIC

A well-designed midget type speaker. Has rigid, pressed-steel frame and large-sized magnet. Small size makes speaker ideal for use where space is limited. Provides unusually fine tone. D.C. resistance is 1000 ohms. Ideal for compact sets. Shpg. wt., 3 lbs.

A9251. NET **\$9.60**



3-INCH MAGNETIC

One of the smallest speakers on the market—only 3" in diameter. For use in pocket-sized midget sets, intercom systems, and small S.W. receivers. Rigid pressed-steel frame; full-sized magnet and coil. 2 1/4" mtg. centers. 1 1/2 lbs.

A9459. With 3 1/2" mtg. flange. NET **\$9.80**
A9458. Less flange. NET **\$8.80**

6-INCH MAGNETIC

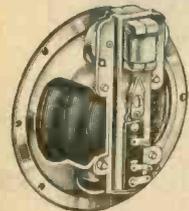
A sturdy and powerful magnetic speaker only 6" in diameter. Has heavy pressed-steel frame and large magnet. Improved armature design. Handles up to 1 watt output. D.C. resistance, 1000 ohms. For use in battery and A.C.-D.C. sets, as extension, etc. Wt., 4 lbs.

A9252. NET **\$1.10**

8 1/2-INCH MAGNETIC

A very efficient speaker which will handle up to 1 1/2 watts output without distortion. Has heavy-duty magnet, D.C. resistance 1000 ohms. Ideal for battery sets, as extension speaker, and for multiple speaker installations in schools, etc. Shpg. wt., 5 lbs.

A9253. NET **\$1.65**



POWERFUL KNIGHT KINETIC SPEAKERS

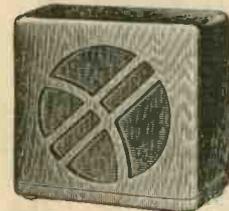
Employ new "Alnico" magnet alloy. Adjusting screw permits compensation for plate current changes. Excellent bass response. Ideal as replacements in portable, battery, or auto radios. Also valuable for intercom systems where units may be used either as microphone or speaker. 5" model is 2 1/2" deep; 6 1/2" model is 2 3/4" deep. Shpg. wt., 2 lbs. each.

5-INCH MODEL

A9525, 10,000 Ohms.
A9526, 500 Ohms.
NET EACH **\$1.39**

6 1/2-INCH MODEL

A9527, 10,000 Ohms.
A9529, 500 Ohms.
NET EACH **\$1.59**



CABINET MODEL 8 1/2-INCH MAGNETIC

Handsome new walnut wood cabinet speaker, ideal for extension use or for multiple speaker installations. The speaker is 8 1/2" in diameter, 3 3/4" deep. Has pressed-steel frame, large magnet, and improved armature structure. 1000 ohms D.C. resistance. With 6 foot cord. Shpg. wt., 8 lbs.

A9486, Less Volume Control and On-Off Switch. NET **\$2.75**

A9485, With Volume Control and On-Off Switch. NET **\$3.25**

WALNUT CABINET ONLY

Speaker cabinet, 9 1/4 x 9 1/4 x 5 1/2", is also offered separately. Has grilles at both front and back. Will house 8" or 8 1/2" speaker. A9449. NET **\$1.40**

METAL SPEAKER CABINETS

These speaker cabinets are made of heavy-gauge sheet steel with a black ripple finish that will not chip or peel off. The cabinet is completely enclosed. Louvers are punched in the back cover for relief of back pressure. A beautifully designed metal grille with attractive grille cloth protects speaker against dust and damage. This cabinet is ideal for extension speakers, call systems, and Public Address installations. Makes an excellent speaker housing for Amateurs or for Serviceman's repair bench. Available in four standard sizes.

Cat. No.	Size	For Speaker Size	Dia. of Grille	Shpg. Wt.	NET EACH
A9710	9" x 9" x 6"	6"	4 1/2"	8 lbs.	\$2.20
A9711	11" x 11" x 7"	6"	6 1/2"	9 lbs.	2.70
A9712	13" x 13" x 8"	10"	9"	15 lbs.	3.53
A9713	15" x 15" x 8"	12"	11"	20 lbs.	5.14

NEW OXFORD SPEAKERS

"LITTLE GENERAL" 2" PERMAG

Model 2ZMP. This 2" P.M. speaker is the latest development in compact speaker design. Although the dimensions are smaller than any previous model, the performance is highly efficient. Can be used as speaker and microphone in small inter-communication apparatus. Extremely useful for hearing-aid devices and compact AC-DC receivers. A special voice coil to grid matching transformer, shielded in metal shell, is listed below. Shpg. wt., 1/4 lb.

A9715. NET **\$1.03**



OTHER POPULAR SIZES IN P.M. DYNAMICS

Cat. No.	Model No.	Size	V.C. Imp.	Power Watts	Shpg. Wt.	NET EACH
A9717	3ZMP	3 1/2"	3-4	1 1/2	1 1/2 lbs.	\$1.09
A9718	4ZMP	4 1/2"	3-4	2	1 3/4 lbs.	1.15
A9719	5ZMP	5"	5	2 1/2	2 1/2 lbs.	1.47

TRANSFORMERS FOR ABOVE SPEAKERS

UNIVERSAL 500 OHM LINE
A9721. For 3 1/2", 4 1/2", and 5" models. 3-5 ohm V.C. NET EACH **\$5.00**
A9722. For 3 1/2", 4 1/2", and 5" models. 3-5 ohm V.C. NET EACH **\$3.50**
A9723. Voice coil to grid for 2", 3 1/2", and 4 1/2" models. NET **\$5.90**

ELECTRO-DYNAMIC SPEAKERS

Here is a line of high-quality Electro-dynamic speakers to meet all replacement or custom building needs. Quality speakers; assure excellent frequency response and long-life performance. Removable mounting brackets supplied only with the 5" speaker. All models, except the 5" speaker, have universal output transformers. The model 6J has elongated holes in the mounting flange to fit either 6" or 6 1/2" speaker opening. Voice coil impedance for all models, 5 ohms. The 2750 ohm field can be used for 2500 or 3000 ohm field replacements.

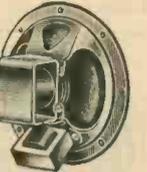


Cat. No.	Model No.	Size	Field Ohms	Shpg. Wt.	NET EACH
A9700	V51*	5"	2750	1 1/2 lbs.	\$1.44
A9701	V52*	5"	1800†	1 1/2 lbs.	
A9702	V53*	5"	6 volt	1 1/2 lbs.	
A9703	J61	6 1/2"	2750	2 lbs.	1.82
A9704	J62	6 1/2"	1800†	2 lbs.	
A9705	J64	6 1/2"	6 volt	2 lbs.	2.41
A9706	J81	8"	2750	4 lbs.	
A9707	J82	8"	1800†	4 lbs.	
A9708	J84	8"	6 volt	4 lbs.	

* Single 43, 42, or 41 output. † 300 ohm tap.

JENSEN SERIES "S" DYNAMICS

A new series of high-grade speakers for general replacement purposes. Outstanding for rugged construction and excellent tonal response. Less transformer. If adjustable output transformer is needed, order A11399 at 49c net. *With transformer.



MODEL H55 5-INCH

Cat. No.	Field Coil	Input Imped.	NET EACH
A9650	3000 ohms	4500 ohms*	\$1.71
A9651	2750 ohms	4 ohm V.C.	\$1.35
A9652	1000 ohms	4 ohm V.C.	
A9653	6 Volt	4 ohm V.C.	

MODEL H65 6-INCH

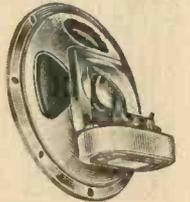
Cat. No.	Field Ohms	Input Imped.	NET EACH
A9654	2750	4 ohm V.C.	\$1.59
A9655	1800	4 ohm V.C.	
A9656	1000	4 ohm V.C.	
A9657	6 V.	4 ohm V.C.	

MODEL F8RS 8-INCH

Cat. No.	Field Ohms	Input Imped.	NET EACH
A9658	2500	4 ohm V.C.	\$2.29
A9659	1800	4 ohm V.C.	
A9661	1000	4 ohm V.C.	
A9660	6 V.	4 ohm V.C.	

WRIGHT-DECOSTER HYFLUX MAGNETIC SPEAKERS

The Wright-Decoster Hyflux is a new, improved type of speaker, rich and mellow in tone quality. Ideal for replacement purposes or as initial equipment in custom-built sets. Features include: voice coil with bakelite form; one-piece diaphragm; climate-proof construction; specially designed magnet. Excellent frequency response and absence of distortion make this speaker the equal of many electro-dynamic types. Compact assembly provides for ease of installation even where space is at a minimum as in battery and auto radios, or in multiple extension speaker systems. Depth of speaker is less than 3". Bakelite strip with lugs is mounted on speaker frame for easy wiring.



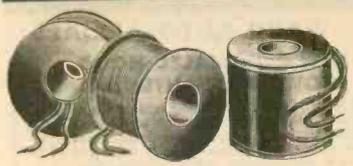
6-INCH SPEAKER

The depth of the 6" model is 2 1/2". Diameter of frame is 6 1/2". For replacement and as extension speakers. Shpg. wt., 1 1/4 lbs.
A9317, 7,000 ohms impedance.
A9316, 10,000 ohms impedance.
NET EACH **\$1.47**

8-INCH SPEAKER

The depth of the 8" model is 2 1/2". Diameter of frame is 8 1/2". Suitable for console or table models. Shpg. wt., 2 1/4 lbs.
A9318, 7,000 ohms impedance.
A9319, 10,000 ohms impedance.
NET EACH **\$1.53**

REPLACEMENT PARTS FOR SPEAKERS



EXACT DUPLICATE HIGH-GRADE FIELD COILS

Select coil from following listing or from Universal coils shown below. We can also supply coils other than those listed. Send sample with a deposit, or specify measurements and resistance, and we will supply or quote promptly.

No.	Set or Speaker	Ohms	NET
A2990.	Apex 20 (1x2 1/4 x 1/4)	5,935	\$ 1.47
A2950.	Apex 26 (1 1/2 x 2 1/2 x 1 1/2)	11,500	1.62
A2951.	Apex 26A (1 x 2 1/4 x 1 1/2)	11,500	1.62
A2952.	Apex 26P (Speaker 2758) 1x2 1/4 x 1 1/2	11,500	1.62
A2953.	Apex 26T (Speaker 2925) 1 1/2 x 2 1/2 x 1 1/2	11,500	1.62
A2954.	Apex 27 (1 1/2 x 2 1/4 x 1 1/2)	11,000	1.62
A2955.	Apex 8A (7/8 x 2 1/4 x 1)	6,600	1.62
A2991.	Apex 10B (1 1/2 x 2 1/4 x 1 1/2)	6,600	1.62
A2993.	Arison A. Bosch 505. 515.	1,900	1.65
A2994.	Brunswick 16.	2,400	2.35
A2994.	Crosley 269.	10,000	2.25
A2966.	Majestic G2.	2,730	3.15
A2967.	Majestic G3.	2,730	3.15
A2969.	Majestic G5.	7,650	3.15
A2981.	Philco 20.	3,100	1.18
A2982.	Philco 86, 87, 65.		
	95, 76, 96, 77.	3,200	2.65
A2970.	Philco 70.	3,600	1.18
A2984.	Stewart Warner 950.10,000.	4,700	4.70
A2989.	Victor RE32, 45, 75. 2,950	2,950	2.79

UNIVERSAL FIELD COILS FOR AC-DC TYPES



For midrange 5" and 6" speakers. 1" inside dia.; 2" outside dia. 3/4" high. Supplied with 3 gaskets for fitting any pole-piece.

A2699.	450 Ohm.	A2692.	2,000 Ohm.
A2690.	1,000 Ohm.	A2693.	5,500 Ohm.
A2691.	1,500 Ohm.	A2694.	3,000 Ohm.

List. \$1.50
NET EACH **88c**

FOR GENERAL REPLACEMENT

With the following coils you can now service practically any type of speaker. Coils have 2 windings which may be connected in series or parallel to obtain the resistance values shown. Sizes: Type 1—inside dia. 1 1/4", outside dia. 2 1/2", length 1 1/4"; Type 2—inside dia. 1 1/4", outside dia. 2 1/4", length 1 1/2"; Type 3—inside dia. 1 1/2", outside dia. 2 3/4", length 1 3/4"; Type 4—inside dia. 1 1/2", outside dia. 2", length 1 1/2". With instructions. Average shpg. wt. 1 1/2 lbs.

PARALLEL RESISTANCE RANGE

Ohms	Type 1 No.	Type 2 No.	Type 3 No.	Type 4 No.
375-460	A2670	A2675	A2680	A2685
560-690	A2671	A2676	A2681	A2686
675-825	A2672	A2677	A2682	A2687
900-1100	A2673	A2678	A2683	A2688
1125-1375	A2674	A2679	A2684	A2689

SERIES RESISTANCE RANGE

1500-1800	A2670	A2675	A2680	A2685
2250-2750	A2671	A2676	A2681	A2686
2700-3300	A2672	A2677	A2682	A2687
3600-4400	A2673	A2678	A2683	A2688
4500-5500	A2674	A2679	A2684	A2689

List. \$3.10
NET EACH **\$1.82**



CENTERING SHIMS

Celluloid spacers for centering speaker voice coils and armatures. Kit includes: 4 shims—.005"; 4 shims—.0075"; 4 shims—.010"; 4 shims—.0125". In handy leather case.

A2999. NET. **35c**

SWEDISH STEEL SHIMS

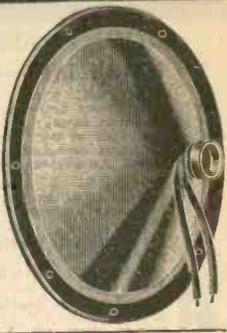
Includes four sizes. .004, .006, .008, and .010 inch. Extremely flexible, tough and accurate. In handy leather case.

A2937. YOUR NET PRICE **38c**

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, non-resonant quality. An accurately wound voice coil is attached to each cone. Cones are precisely molded by patented process to secure excellent tonal quality and long life. Voice coils are also exact duplicates of the originals in all specifications. For improved tone quality, replace your old speaker cones with these reliable exact duplicates.

If the cone you require is not listed below, your cost can be generally determined by the following schedule: 5" to 6" cones—\$0.90; 7" to 9" cones—\$1.50; 10" to 12" cones—\$1.95. Cones 13" and over will be duplicated at a cost not to exceed \$2.75. Please send in your old cone with remittance. If the entire speaker is sent in for cone installation, add 75c to above prices to cover installing and cleaning.



Catalog No.	For Model	Outer Dia., In.	YOUR PRICE	
A9351.	Airline 62-177, 62-173, 62-196, 62-316.	6 1/2"	\$0.88	
A9352.	Airline 62-198, 62-475 5 1/2"		.73	
A9353.	Airline 62-236, 62-263 5 1/2"		.73	
A9361.	A.K. Pt. No. 15142, Mod. 35, 60, 64, 66, 67. Speaker F4.	10 1/4"	1.32	
A9362.	A.K. Pt. No. 14374, Mod. 43, 46, 55, 60, 64, 66, 67. Speaker F2.	10 1/4"	1.32	
A9364.	Ariston A. (Fada 356D) Detroit 140.	5"	.73	
A9365.	Bosch 505, 501, 634A, 640, 430, 431, 434, 620, 625.	7"	.88	
A9369.	Crosley M45, Mod. 202, 40S, 42S, 30S.	8 1/4"	1.47	
A9371.	Crosley 515 (Utah).	5"	.73	
A9355.	Crosley 516.	5 1/4"	.73	
A9370.	Delco 631A, 640.	5 1/4"	.73	
A9415.	Enterson BA 199.	5"	.73	
A9431.	G. E. A64, A65, A55.	8"	.73	
A9432.	G. E. A52, A53, A63.	6 1/4"	.59	
A9358.	G. E. E61, E68, E81, E86, E26, E105, M91E, E76.12		1.18	
A9366.	Grunow 450, 660, 662 Spk. 8B1, 8B2.	7 3/4"	1.32	
A9442.	Grunow 650, 651, 661, 670, 750.	8 1/8"	1.32	
A9367.	Grunow 12G 4-1, 12A1, 12A2, 1101, 901, 902.	12"	1.71	
A9416.	Grunow 6BG 1-3.	6 1/2"	.88	
A9375.	Jensen D7, D8.	11 1/4"	1.71	
A9377.	Jensen D9 (inside spider).	11 1/4"	1.62	
A9379.	Jensen D15.	8 1/2"	1.18	
A9380.	Jensen D16.	8"	1.18	
A9433.	Jensen F8 (Belmont Emerson 250W)	5"	.73	
A9434.	Jensen F6R (Motorola 75), (Kadette 85).	6"	.88	
A9376.	Jensen PM6C, G6R.	6 1/2"	.88	
A9435.	Jensen PM 12C.	12"	1.71	
A9450.	Magnavox 132, 162, (Zenith 862, 1162, 811, 812).	11 1/4"	1.71	
A9413.	Magnavox 15A2D.	158, 168, 254PM, 48C.	8"	1.32
A9386.	Majestic G1.	9"	1.32	
A9387.	Majestic G2.	9"	1.32	
A9388.	Majestic G3.	10"	1.32	
A9390.	Majestic G5, G8, G9, 12.	10"	1.71	
A9391.	Majestic G6, G7.	9 1/2"	1.47	
A9395.	Majestic G10B.	7 1/2"	1.18	
A9397.	Majestic G13.	12"	1.47	
A9399.	Majestic G19.	10"	1.30	
A9400.	Majestic G22.	12"	1.47	
A9385.	Majestic G24.	6"	.88	
A9394.	Majestic G26A.	5"	.73	
A9436.	Philco Pt. No. 02861, Mod. 28, 48, 50, 80, 81.	5 1/4"	.59	
A9406.	Philco 87, 65, 95, 76, 96, 77, 45, 111, 90, 112.	10 1/2"	.82	
A9407.	Philco 90, 46, 20, 21, 70, 470, 490, 650.	8 3/8"	.73	
A9437.	Philco Pt. No. 36-3139, Mod. 6, 7, 8, 9, 10, 12, 14, 15, 19, 43, 47, 71, 89, 91.	7 1/2"	.59	
A9359.	Quam Nichols (Motorola 44), (Emerson A), Detroit 6R).	5"	.73	
A9373.	Quam (Motorola 35, oval spider).	5"	.73	
A9408.	RCA 104, 105.	8"	1.18	
A9409.	RCA 106, R80, R82, R86, R35, R39, RE57, R34, R50, R55.	10 1/2"	1.18	
A9410.	RCA 48, R6 R7, R7A, R8, R9, R10, R11, RE16, R18, P21, R023, RE26, R43, R48.	10 1/4"	.88	
A9291.	RCA Pt. No. 8987, Mod. R28, R28P, RE40, RE40P, 100, 101, 110, 111, 114, 115, M116, 300, 301.	5"	.59	
A9292.	RCA Pt. No. 9428, Mod. R37, R38, R38P, 112, 121, 122, 124, 126B, 241B, 310, 320, ACRI36, M123, M107, 118.	6 1/2"	.59	
A9293.	RCA Pt. No. 8921, R71, R71B, R24.	7 1/2"	.73	
A9417.	RCA 812K, 813K, 800, U105, U107, U109.	12"	1.18	
A9418.	RCA 99T.	8"	.73	
A9360.	Rola DP5 (Crosley 166), (Emerson UV4).	6"	.88	
A9294.	Rola F4, Emerson U4B, 108.	5"	.73	
A9296.	Rola F6, F8.	7 1/2"	1.18	
A9453.	Rola G12.	12"	1.71	
A9454.	Stewart-Warner R206, A207, R204A, R110, 102A, 104A, R218A, 209, 210, 208, 223A, R116A.	8"	1.32	
A9456.	Stewart-Warner Pt. 85119, R232, R131.	6 1/2"	.88	
A9428.	Utah 12B (3 point spider, 16 ohm voice coil).	12"	1.71	
A9422.	Utah Isoodyne.	7 1/4"	1.18	
A9450.	Utah No. 1220.	12"	1.71	
A9455.	Wright DeCoster 107.	12"	1.71	
A9424.	Victor RE32, 45, 75.	9"	1.03	
A9420.	Wurlitzer 412.	12"	1.71	
A9458.	W. C. Hinghouse WR200, WR211.	6 1/4"	.88	
A9443.	Zenith 5FB4, 5F34, 49-153.	6 1/2"	.88	
A9444.	Zenith 5FB4, 5F34, 49-155.	8"	1.32	
A9445.	Zenith 6-S-52.	8"	1.32	
A9476.	Zenith 6-M92 (49-138).	5 1/4"	.73	

AUTOMOBILE SPEAKER CONES

No.	For Model	Outer Dia., In.	NET
A9457.	Chevrolet 601662, 601574 Rola.	5 1/4"	\$0.73
A9461.	Chevrolet 985301, 985200 Magnavox.	5 1/4"	.73
A9462.	Chevrolet 985253.	5 1/4"	.73
A9370.	Delco 631A, 640.	5 1/4"	.88
A9360.	Delco 640, 631A.	5 1/4"	.88
A9460.	Goodyear 602 (602C Belmont).	5"	.73
A9465.	Motorola 60.	6 1/2"	1.03
A9421.	Motorola 45.	6 1/2"	.88
A9438.	Philco C32, Ford.	5"	.59
A9439.	Philco 817, 827.	6 1/2"	.59
A9425.	Philco F1540, CB4.	6"	.59
A9425.	Philco 38-12Quam.	5 1/4"	.73
A9426.	Philco F1640.	7 1/2"	.59
A9452.	RCA Pt. No. 13667, Mod. 5T6, 5T7, 5T8.	5"	.59
A9290.	RCA Pt. No. 9023, Mod. M34, M105.	5"	.59
A9427.	RCA 67M1.	6 1/2"	.59
A9471.	Rola T6DP.	5 1/4"	.73
A9467.	Unit Mot 1210693.	8"	1.32
A9440.	W. G. 6-J.	6 1/2"	.88

SPEAKER CONE CEMENT

Readily cements speaker cones, paper rings and felts to speaker frames. Comes in convenient metal tube containing 3 ounces, enough for many jobs. This high quality cement dries quickly and holds permanently. A necessary item in the serviceman's kit.

A2931. YOUR PRICE **24c**

The Latest in AUTO RADIO AERIALS

KNIGHT AERIALS

HINGE TYPE—RUSTPROOF

Rust-proof; triple chromium-plated over heavy brass and stainless steel. Easy to install: mount directly on hinge-pin of car door — no drilling. Supplied complete with heavy-duty cable. An efficient low-cost aerial.

A10505. 1 Section Telescopic. Non-telescopic, total length, 39". With 36" lead-in cable. Shpg. wt., 2 lbs. **49c**
NET.

A10506. 2 Section Telescopic. extends from 25" to 50". With 36" lead-in. Shpg. wt., 2 lbs. **79c**
NET.

A10507. 3 Section Telescopic. extends from 20" to 62". With 36" lead-in. Shpg. wt., 3 lbs. **\$1.15**
NET.

SIDE COWL TYPE

Triple chromium-plated fully rust-proof. Mounts on side of auto cowl. Brass inserts assure more accurate fit. With spring-tensioned low-loss lead-in cables. Extremely efficient.

A10508. 2 Section Telescopic. Extends from 23" to 49". With 30" lead-in cable. Wt., 2 lbs. **\$1.19**
NET.

A10509. 3 Section Telescopic. Extends from 20" to 60". With 30" lead-in cable. Wt., 3 lbs. **\$1.41**
NET.

A10510. 3 Section Telescopic. Extends from 23 1/2" to 72". 30" lead-in. Wt., 3 lbs. **\$1.60**
NET.

A10466. 1 Section. 60" total length. Lower end is black enameled. Shpg. wt., 2 lbs. **59c**
NET.

RCA AUTO AERIALS

"HOODTENNA"

Efficient new auto antennas. Ceramic insulators throughout. Inside-of-hood mounting. Chrome finish. With 33" lead.

A10530. Model 9898. Two insulators, four section. Extends to 100". Fine Chrome finish. Shpg. wt., 2 lbs. **\$2.50**
NET.

A10531. Model 9893. Two insulators, three section. Extends to 64 1/4" when open. Anti-static ball tip. 2 lbs. **\$1.76**
NET.

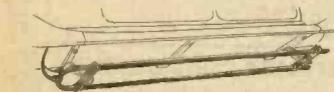
A10532. Model 9892. Two section, single insulator. Extends to 47". Adjustable to line of car. Wt., 1 1/2 lbs. **\$1.15**
NET.

ADJUSTABLE AUTOMATIC

MODEL 9895. This newly developed antenna can be automatically raised and lowered from inside the car. A stroke of the pneumatic plunger extends the antenna to the desired height. Compact operating cylinder

shows under dash with only attractive handle mounting. Extends to full 42"; collapsed, only 3" protrudes above the hood. Simple to install. Chrome finish with 30" special low-capacity cable. Wt., 3 lbs. **\$3.50**
A10533. NET.

DI-POLE ANTENNA



Unexcelled for efficient under-car installation. Has adjustment for road clearance and universal mounting brackets. Where signal level is very low, two Di-Poles may be installed — one under each running board. With 50" lead-in. Shpg. wt., 4 lbs. **\$1.53**
A10483. NET.

I.C.A. AUTO AERIALS

RUSTPROOF

An extensive line of high-grade, low-priced auto aerials to meet every requirement. Easily installed on any car and offering efficient signal pickup with minimum noise. Constructed of finest brass tube, triple chromium-plated, and stainless steel rod. Guaranteed rustproof for life of the car. Non-rattling. Noted for long life and efficiency.



UNIVERSAL COWL TYPE

For mounting on side of door at cowl. Requires only a screwdriver for quick installation. Telescoping feature assures high signal pickup; careful insulation reduces noise interference. Non-rattling. Works efficiently with any auto radio.

A10513. (6502) 3 Section Telescopic. Extends from 23 1/2" to 72". Supplied complete with shielded lead-in cable, ready for installation. Wt., 2 lbs. **\$2.65**
NET.

A10514. (6504) 3 Section Telescopic. Extends from 31 1/2" to 96". Ideal for Police, 2 way systems, short-wave work. With 30" lead-in. Wt., 2 lbs. **\$2.94**
NET.

RUSTPROOF HINGE TYPE

Sturdy, rustproof aerial for mounting on hinge-pin of car door. Triple chromium plated. Tapered ends prevent moisture and dust from entering. Non-rattling. No drilling — easily installed in a few minutes. Two section telescopic; extends from 25" to 50". With lead-in. Wt., 1 lb.

A10517. (4525) \$1.15
NET.

A10520. (4532) Three Section Telescopic. Extends from 31 1/2" to 96". With heavy-duty lead-in. Wt., 2 lbs. **\$2.06**
NET.

SIDE COWL TYPE

A10524. (4557) Three Section Telescopic. Extends to 60". 30" lead-in. Shpg. wt., 1 1/2 lbs. **\$1.73**
NET.

A10525. (4555) Three Section Telescopic. Extends to 72". 2 lbs. **\$1.91**
NET.

A10526. (4553) Three Section Telescopic. Extends to 96". 2 1/2 lbs. **\$2.35**
NET.

A10527. (4558) Four Section Telescopic. Extends to 96". For Police, 2-way and short-wave work. Extra heavy-duty type. Shpg. wt., 3 lbs. **\$3.50**
NET.

MOTO-WHIP

An efficient adjustable-type auto antenna to fit any car. Maximum length, 62". Full chrome plated throughout. Has easily operated snap-type adjustment. Extends over windshield and top to match contour of your car. With lead-in. Shipping wt., 3 lbs. **\$1.22**
A10477. NET.



EXTRA DISCOUNTS ON I.C.A. AERIALS

You may deduct an additional discount of 10% on any of the I.C.A. aerials listed above if ordered in lots of ten or more. Your order may consist of any one type or an assortment.

AUTO LEAD-IN CABLES

Ideal for use as replacement cable or for custom-built auto sets. Flexible cable, shielded loom protected, covered overall with black processed braid. Heavily lacquered.

No.	Length	Terminal Type	NET
A5930	2 Ft.	Male Connector & Gnd. Lead	32c
A5931	2 Ft.	Male & Female Connectors	32c
A5933	3 Ft.	Male Bayonet Lug End	38c
A5934	6 Ft.	Male Connector & Gnd. Lead	56c

FOR MOTOROLA SETS

A5937.	Hinge lead with pin plug	38c
A5938.	Cowl lead with pin plug	38c

WARD AUTO AERIALS

NEW CONCEALED HOOD COWL TYPE ANTENNA

A new type of mounting which eliminates drilling holes through highly finished surfaces. Ceramic insulators used to obtain high gain. Easily installed with self-tapping metal screws. Colored "anti-static" ball tip.

A10537. Type 149L. Two section. High "Q". Extends from 27 1/2" to 47". With 30" cable. 1 lb. **\$1.15**
NET.

A10538. Type 146L. Three section type. Extends from 28 1/4" to 65". With 30" lead. 1 1/2 lbs. **\$1.76**
NET.

A10539. Type 150L. Three section. Attaches with two brackets. Extends 38" to 94". 1 1/2 lbs. **\$2.20**
NET.

"NEW-MATIC" AUTOMATIC TYPE

MODEL 112. The first fully automatic 2 section antenna. Operates independently of ignition or vacuum system. Has "Anti-static" ball tip. Simple and efficient in operation. Uses pneumatic system for extension. Rod cannot jiggle down. Exposed length: closed, 3", open 42". More efficient than ordinary cowl type. Low-loss lead, 30" long. Wt., 2 1/2 lbs.

A10540. \$3.50
NET.

MODEL 154 "MANUAL"

A10541. Manually operated two section type. Otherwise same as "NEWMATIC" listed above. Wt., 1 1/2 lbs. **\$2.32**
NET.

NEW COWL ANTENNAS

Patented anti-rattle cowl antennas of high efficiency. Equipped with "anti-static" ball tip. Ceramic insulators. With shielded low-loss cable. For side cowl mounting on any car. Guaranteed rustproof; for noise-free operation.

A10542. Type 8XL. Three section. Bakelite insulators. Extends 37 1/2" to 94". Wt., 1 1/2 lbs. **\$2.20**
NET.

A10543. Type 5XXL. Three section. Bakelite insulators. Extends from 28 1/2" to 66 1/4". 1 1/2 lbs. **\$1.76**
NET.

A10544. Type 151L. Four section. Two ceramic insulators. High "Q". Length, 29 1/2" to 100". **\$2.50**
2 lbs. NET.

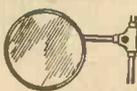
BUMPER TYPE

Three sections, guaranteed rust-proof. Extends from 37 1/2" to 94 1/4". Ball type insulators and cadmium plated bumper brackets. Easily attached. Complete isolation from motor noise permits better signal pickup. Less lead. Wt., 2 lbs. **\$1.73**
A10382. NET.



NEW TELA-VISION MIRROR

A rear-view mirror to clamp on any cowl or hinge aerial. 3" dia. mirror mounted in chrome shell. Easy to attach. Wt., 1 lb. **88c**
A10375. NET.



LONG-RANGE TWINS

Dual section under-car antenna with 200' effective length. 100% rubber sealed; has 4 ball type rubber insulators to reduce noise. Absolutely weather-proof. No drilling. 72" shielded lead-in. Wt., 7 lbs. **\$2.65**
A10384. NET.

AUTO RADIO ACCESSORIES



"REDHEAD" SENIOR AUTO ANTENNA

A scientifically designed, welded, vibration-proof running-board antenna of remarkable efficiency. Strong signal pickup with minimum of ignition interference. All-metal construction; completely insulated with an overall rubber cover, waterproof and rust-resisting. Easy to install. No springs, wire, etc., to rattle or loosen. Has set screw connection for antenna lead-in. Length, 46"; width, 9". A highly efficient auto aerial. Wt., 7 lbs.

A10473. NET **95c**

SHIELDED AERIAL LEAD-IN

For efficient installation of auto antenna. Filler wrapped around No. 18 conductor, with shielding overall. Finest quality lead-in wire at an exceptionally low price.

A2444. 1/4" DIAM. Per Foot **4 1/2c**

100 Ft. **\$4.10**

A2443. 1/2" DIAM. **7c**

100 Ft. **\$5.95**

SHIELDED LOOM
For effective shielding.

Cat. No.	Inside Dia.	Per 50 Ft.	Per Ft.
A3423	3/4 in.	\$1.95	4 1/2c
A3424	1 in.	2.98	6 1/2c

COPPER SHIELDING

Cat. No.	Diam. Open	Per 50 Ft.	Per Ft.
A3595	1/4 in.	\$0.85	2c
A3596	1/2 in.	.95	2 1/2c
A3597	3/4 in.	1.25	3c
A3598	1 in.	1.85	4c

RUBBER TUBING

Fine quality replacement rubber tubing. For all auto aerials with rubber-covered lead-in which has become frayed or cut.

A6664, 3 feet for **10c**

ANTENNA CONNECTOR

For Auto Radio Sets, to connect antenna lead to set.

A6254. DOZ. **30c. EACH. 4c**

JUMBO FUSE HOLDER

A large size replacement type fuse holder. Measures 2 1/2" long x 1/2" wide. Takes 3AG standard fuses.

A6665. NET **10c**

RUBBER SUCTION CUP

A6666. With 8-32 screw 1/4" long. For all makes of auto antennas. NET **6c**

A6667. Rubber Cement for above. NET **3c**

PIN PLUGS AND JACKS

Fine quality pin plugs and jacks for making firm contacts in hooking up wires leading to auto set chassis. Also adaptable to various other radio and electrical applications. Jack is of cadmium-plated metal; plug has molded bakelite shell. May also be used with other auto sets than those listed below.

A5950. Pin Plug. NET **6c**

A5951. Shielded Jack. NET **12c**

FOR RCA

A5952. Pin Plug. NET **6c**

A5953. Socket & Shield. NET **9c**

FOR BUICK

A5954. 5 Prong Pin Plug. NET **12c**

A5955. 5 Prong Socket. NET **12c**

ADMIRAL TOUCH-O-MATIC TUNER



Here is a startling demonstration of value that may never be repeated! This famous Admiral Touch-O-Matic Auto Radio Tuning Unit has been formerly sold at prices as high as \$6.00 and

is now offered—while our supply lasts—at only \$1.95! Offers you true automatic tuning with any make or model radio in any car. Consists of a compact bakelite housing (5 1/2" x 1 1/2" x 1 1/4") incorporating six small push-buttons. Five buttons are for station selection, each button controlling a separate station; the sixth button is for channel clearing; it makes the change from manual to automatic tuning, or vice versa, as desired. Station buttons may easily be adjusted to any of five stations in broadcast band. Provides instant, accurate tuning of any desired broadcast. Easily mounted on steering wheel post or under dash. Only two connections required. Supplied with connecting cable, hardware, accessories, and complete instructions. Wt., 6 lbs.

A5949. SPECIAL PRICE **\$1.95**

MOTOR NOISE FILTER

A new Auto Radio noise and spark plug suppressor eliminator. Assures noise-free reception. Consists of a combination high-frequency filter and adjustable balancing circuit. Interference is always "balanced out" regardless of frequency, by means of manual inductance control. Housed in shielded metal container with mounting bracket. **\$1.05**

A5489. NET

SUPER DISTRIBUTOR FILTER

This one unit completely filters all ignition noises in any car and eliminates need for separate suppressors or resistors. Bakelite housing contains separately wound pins of low D.C. resistance and high A.C. impedance. Mounts in distributor head of car motor. **\$1.32**

A5940. NET

"A" LINE R.F. FILTER

Eliminates line noises such as hum, hash, or ripple entering auto set through "A" line or other leads. Especially require for auto sets without built-in filters and for sets which pick up noise with antenna lead disconnected. In sturdy metal case with mounting brackets. **73c**

A6941. NET

1600 VOLT VIBRATOR CONDENSERS

Designed for the severest replacement use in auto radio work. Oil-impregnated; in aluminum tubes.

No.	Mfd.	No.	Mfd.	EACH.
A6975	.006	A6978	.01	18c
A6976	.007	A6979	.015	
A6977	.008	A6980	.02	

10 FOR \$1.55

AEROVOX "HASH" CONDENSER

Completely suppresses all generator noises. Mounts directly on car generator and is connected across terminals. Capacity, .5 mfd.; D.C. working voltage, 100 V. Bottom bracket grounds. Terminal lug is located at top. Measures 1 1/2" high by 1/2" diameter. Easily installed on any car. Especially recommended for better radio performance in any car where generator noise has been interfering. A fine-quality, low-cost unit. **24c**

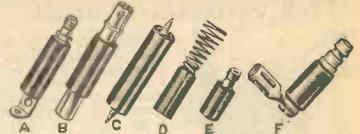
A5945. NET

FRONT WHEEL NOISE SUPPRESSOR

Effectively eliminates all noise caused by static pickup of car's front wheels. Easily installed under hub caps. **10c**

A5488. PAIR

A5944. With plate and screw for wheel cap attachment. **18c**



KNIGHT AUTO RADIO SUPPRESSOR UNITS

Efficient carbon type suppressors for use on any automobile engine. Will cut practically all ignition interference, and improve reception.

Bakelite No.	A. Spark Plug Type.	Ceramic No.
A6990.	A. Spark Plug Type.	A7180
A6991.	B. Distributor Type.	A7181
A6992.	C. Cable Type.	A7182
A6993.	E. Short Type.	A7183
A6994.	F. Elbow Type.	A7184

SET OF 5 **46c**

SET OF 7 **63c**

SET OF 9 **79c**

YOUR PRICE, EACH **10c**

A6995. D. Special 50,000 ohm. Ford V8 Brush Type. For 1933-1935 models.

A6999. D. Special small type, 50,000 ohm. For 1936, 1937 and 1938 Fords. **10c**

YOUR PRICE, EACH **10c**



WIRE-WOUND SUPPRESSORS

Extremely effective in eliminating motor noise without impairing motor efficiency. Low resistance—30 ohms. Bakelite cases.

A5560. Plug type. Fig. A.

A5561. Distributor type. Fig. B.

A5562. Elbow type. Fig. C. **27c**

10 FOR \$2.45. EACH

MASTER DISTRIBUTOR SUPPRESSOR UNIT

A5942. Rated at 10,000 ohms. Ideal for use in new cars where only one suppressor is needed. NET **29c**

AUTO RADIO FILTERS

SINGLE CAPACITORS

Metal-cased compact by-pass condensers for use on generators, ammeters, horns, etc., to eliminate noise. Excellent filter values.

A2942. 1/4 MFD. Round metal container 3/4"x2". Single lead with lug. **15c**

For horn. EACH

A2943. 1/2 MFD. Round metal container 1"x2". Single lead with lug. **19c**

For coil. EACH

A2944. 1 MFD. Round metal container 1 1/2"x2". Single lead with lug. **24c**

For generator. EACH

A2945. 1 MFD. 1 1/4"x2 1/2". Heavy duty for use near motor. **32c**

For generator. EACH

DOMESTIC LIGHT FILTER

A 1/2 mfd. condenser and 2 amp. choke in a round insulated container. 3" x 1/2". With 3 leads. **31c**

A2941. NET

A2938. Ammeter and Gas Gauge Filter. A 1/2 mfd. condenser in insulated case with two flexible insulated leads. NET **29c**

FORD V-8 CONDENSERS

Especially designed to fit the Ford V-8 distributor-head. Special bracket assembly matches distributor head bolts. **17c**

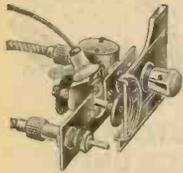
A5921. For 1934-35 V8's.

A5922. For 1936-37-38 V8's.

A5943. For 1939 V8 Fords. NET EACH

AUTO RADIO ACCESSORIES

STAR UNIVERSAL CONTROL



Includes all the necessary mechanism to provide clockwise or counter-clockwise control, and all ratio gears to provide from 6 to 1, to 16 to 1 ratios. This mechanism with any Star panel listed below (which is extra and must be chosen for your particular car) and your old cables are all that is necessary for a good Remote Control assembly. Will fit all cars with provision for dash or under-dash mounting controls. Price shown is for drive mechanism only. Panel matching plate, cables, extra. Shipp. wt., 2 lbs.

A5880. NET \$2.06

STAR CONTROL ACCESSORIES

- A5881. Type S-1. On-Off Switch. NET \$.59c
- A5882. Type T-1. Three stage tone control. Less on-off switch. NET \$1.18
- A5883. Type T-2. Variable Tone Control. Less on-off switch. NET \$1.18
- A5884. Type ST-1. 3 stage Tone Control and on-off switch. NET \$1.76
- A5885. Type ST-2. Variable Tone Control and on-off switch. NET \$1.76
- A5886. Type S-2. 2 stage Local Distance switch. NET \$.29c
- A5887. Type G-6. 20:1 ratio gear. \$.9c

CROWE AUTO RADIO CONTROL

Remote control assemblies to match car panels. By selection of tuning control unit, volume control unit, and panel assembly (listed below) you may provide your own control assembly for new car installation or for transferring old radio into another car. If you cannot select your own assembly, send in name and model number of radio, year and name of car, and we will quote on proper assembly. Wt., 2 lbs.



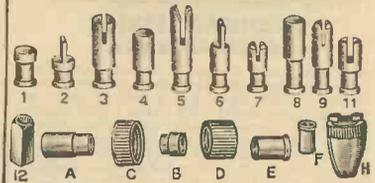
Gear Ratio	Less Switch Cat. No.	Mfg. No.	With Switch Cat. No.	Mfg. No.
6 to 1	A6746	706-T1		
8 to 1	A6736	708-T1	A6741	708-T2
10 to 1	A6737	710-T1	A6742	710-T2
12 to 1	A6738	712-T1	A6743	712-T2
16 to 1	A6739	716-T1	A6744	716-T2

NET EACH \$1.03 | NET EACH \$1.38

VOLUME CONTROL UNITS

- A6772. Type 700-V1. Volume control only. No switch or tone control. NET \$.44c
- A6773. Type 700-V2. Volume control with combination on-off switch. NET \$1.09
- A6776. Type 700-V3. Volume control with independent on-off switch. NET \$1.26
- A6775. Type 700-V6. With on-off switch and variable tone control. NET \$1.65
- A6777. Type 700-V33. Volume control for Philco 818, 818K, 819. NET \$1.65

ACCESSORIES FOR AUTO RADIO REMOTE CONTROL



CABLE AND HOUSING FITTINGS

Exact duplicates for most auto sets. We will assemble cables and fittings at net charge of 35c plus material cost. Send old cable as sample and specify fittings and lengths desired. Send cash with order.

No.	Type	No.	Type
A1821	2	A1827	7
A1822	3	A1828	8
A1823	4	A1829	9
A1824	5	A1831	11
A1825	6	A1832	12
A1826	5	NET EACH	6c

- A1834. Type A. | A1837. Type D. EACH
- A1835. Type B. | A1838. Type E. 6c
- A1836. Type C. | A1839. Type F.
- A1840. Type H. For Motorola .130" housing.
- A1841. Type H. For Motorola .150" housing.
- NET EACH..... 18c

CABLE AND HOUSING



Exact cable and housing used by leading factories. Housing Parkerized to prevent rust.

CABLE ONLY

.130"	.150"	Lgth.	NET
A1850	A1854	18"	\$0.24
A1851	A1855	24"	.29
A1852	A1856	30"	.36
A1853	A1857	36"	.42

HOUSING ONLY

A1860	A1864	18"	\$0.18
A1861	A1865	24"	.24
A1862	A1866	30"	.26
A1863	A1867	36"	.31

KNIGHT SPECIAL VALUE EXACT DUPLICATE VIBRATORS

These vibrators are exact duplicates of the vibrators they replace. Because of their popularity, the manufacturers were able to produce them in large quantities at a savings in production cost. These savings are in turn passed on to you. Carry RMA guarantee. Excellent values. Offered in the most popular replacement brackets, according to manufacturers' specifications. You will get fine service and efficient results from these quality special value vibrator units.



FOR PHILCO SETS

For all Philco auto sets prior to 1936; 816, RT14, 816B, T2, T3, T5, T6, NT15, ST15, PHXD, 37-S1431. Standard 4 prong base. A4694. Six for \$5.40. EACH..... 92c

For models 817, 818, 819, T12, 827, 826, 828, 1418, 1417, 1430, 1432, 1431, 1421, 1450, 1442, 1440, 1436, 1418, B, P, DP, DVP. A4695. Six for \$5.40. EACH..... 92c

FOR MOTOROLA SETS

For models 34, 62, 79, 50, 60, 65, 35, 45 and 70. A4698. Six for \$5.40. EACH..... 92c

FOR DELCO SETS

For models 2035, 4036, etc., also for United Motors 980383, 980393, and 364441 sets. Oblong; size, 2 1/2 x 1 3/4. A4696. Six for \$6.05. EACH \$1.12
For Delco models 625, 626, 627, 628 and 629. A4697. Six for \$8.37. EACH..... \$1.55

FOR KNIGHT SETS

SP55 equivalent. For H9751, H9850, L7, X6, Z4, Z5 and BA41. Has five prong base. Measures 3/4" long, 1 1/2" diameter. A4693. Six for \$10.50. EACH \$1.93

CROWE AND STAR DASH MOUNTING PANELS



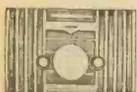
Panels Come Complete With Knobs

These panels together with mechanisms listed above will make complete remote control dash mounting kits to match your dash. LESS CABLES. NOTE: Order CROWE with CROWE accessories and STAR panels with STAR accessories. CROWE PANELS WILL NOT FIT STAR MECHANISM.

STAR No.	Car Model and Year	CROWE No.	STAR No.	Car Model and Year	CROWE No.
A5002	Buick 40 and 60 '37	A5150	A5872	Nash Laf. 1938	A6718
A5003	Buick 80 and 90 '37	A5151	A5893	Nash 1939	A6719
A5850	Buick 1938	A5152	A5926	Oldsmobile '36	A5176
A5878	Buick 1939	A6700	A5025	Oldsmobile '37	A6720
A5005	Cadillac 1938	A5153	A5894	Oldsmobile '38*	A5178
A5004	Cadillac 1939	A5154	A5895	Oldsmobile '39	A6721
A5006	Chevrolet 1935	A6702	A5029	Packard 120 '35	A5179
A5855	Chevrolet 1936	A6703	A5028	Packard 120 '36	A5178
A5852	Chevrolet 1937	A6704	A5027	Packard 120 '37	A5177
A5853	Chevrolet 1938	A6705	A5896	Packard 1938	A6722
A5879	Chevrolet 1939	A6706	A5897	Packard 1939	A6723
A5011	Chrys. Roy. and Imp. '37	A5159	A5872	Plymouth St. '36	A6725
A5012	Chrysler Airflow 8 '37	A5158	A5873	Plymouth De Luxe '36	A6726
A5008	Chrys. Roy. and Imp. '38	A5157	A5874	Plymouth St. '37	A6727
A5007	Chrys. N.Y. Spec. '38	A5156	A5875	Plymouth De Luxe '37	A6728
A5014	De Soto 1937	A5162	A5876	Plymouth De Luxe '38	A6729
A5013	De Soto 1938	A5161	A5898	Plymouth Bk. King '39	A6730
A5012	De Soto 1939	A5160	A5900	Plymouth De Luxe '39	A5180
A5016	Dodge 1935	A5164	A5031	Pontiac 1936	A5180
A5854	Dodge 1936	A5163	A5030	Pontiac 1937	A6730
A5856	Dodge 1937	A6706	A5877	Pontiac 1938	A6731
A5856	Dodge 1938	A6707	A5902	Pontiac 1939	A5182
A5889	Dodge 1939	A6708	A5903	Studebaker Pres. '37	A5183
A5858	Ford Std. & Early '36	A6709	A5904	Studebaker Diet. '37	A6732
A5859	Ford Std. & Late '36	A6710	A5905	Studebaker Pres. '38	A6733
A5860	Ford De Luxe Early '36	A6711	A5036	Studebaker Comm. '39	A6734
A5861	Ford De Luxe Late '36	A6712	A5037	Terraplane 1936	A5174
A5862	Ford Std. '37	A6713	A5037	Terraplane 1937	A5172
A5863	Ford De Luxe '37	A6714	A5038	Terraplane 1938	A5173
A5864	Ford 1938	A6715	A5888	Willis '37, '38, '39	A5184
A5890	Ford Std. '39	A6716		Underdash or Steering Post Kit.	A6735
A5891	Ford De Luxe '39	A5171			\$3.97
A5021	Hudson 112 '38	A5170			
	Hud 83, 84, 85, 86, 87, '38	A5169			
	Hud. Country Club '39	A5168			
A5019	Hudson 112 and 6 '39	A5167			
A5018	Lincoln Zephyr '37	A5166			
A5024	Lincoln Zephyr '38	A5165			
A5017	Lincoln Zephyr '39	A6724			
A5905	Mercury 1939	A6725			
A5868	Nash Laf. 400 '37	A6717			

We can supply all Star and Crowe dash mounting panels for new cars as soon as released. Order 1940 panels immediately after delivery of your new car. Specify make and model in your order.

1939 CHEVROLET SPECIAL



A new dash mounting plate for easy installation. Finished to match the color of dash board, this special plate is all that is necessary to reinstall any 1936, 1937 or 1938 Delco, United Motors, or Chevrolet custom-built radio in the 1939 Chevrolet. The original remote control units can be used. Shipp. wt., 2 lbs.

A5001. NET \$2.06

UNIVERSAL SOCKET WRENCH

A unique universal 7-in-1 socket wrench for auto radio installations and general work. Consists of seven sizes of sockets: 7/16, 1/2, 5/8, 3/4, 7/8, 1 1/8, 1 1/4. All set contained in the body of the wrench. Long bolts pass through center of tool. Built of hardened steel, cadmium plated. Shipp. wt., 1 lb.



A5000. NET \$3.18

REPLACEMENT VIBRATORS

FAMOUS EXACT DUPLICATE VIBRATORS

The listing below shows the complete line of Mallory 6 volt vibrators. This list includes vibrators to replace defective units in both automobile and regular household type radio sets. Order your vibrator by manufacturers' type number if original vibrator is a Mallory. If your model is not shown, order your vibrator from **ALLIED** giving model and type number of original set and vibrator. We also stock vibrators for 12 and 32 volt sets.

Extra Discounts: Deduct 10% from Prices Shown for Single Purchases of 6 or More.

Mallory No.	Cat. No.	List Price	NET EACH	Mallory No.	Cat. No.	List Price	NET EACH	Mallory No.	Cat. No.	List Price	NET EACH
201	A4656	\$6.50	53.82	253T	A4676	\$3.95	52.32	501P	A4678	\$2.95	51.73
205	A4630	6.50	3.82	253V	A4662	2.95	1.73	503	A4646	3.95	2.32
210	A4663	7.50	4.41	270B	A4673	5.95	3.50	504	A4647	3.95	2.32
220B	A4655	4.00	2.35	271HD	A4634	5.95	3.50	505P	A4685	2.95	1.73
221	A4664	3.95	2.32	271C	A4661	5.95	3.50	506P	A4686	3.95	2.32
222	A4654	5.50	3.23	273C	A4665	5.50	3.23	507P	A5132	2.95	1.73
223	A4657	9.95	3.50	273D	A4666	5.50	3.23	508P	A5133	2.50	1.47
224	A4631	7.00	4.12	275	A4661	5.95	3.50	510P	A5134	3.00	1.76
225	A4658	5.95	3.50	275XS	A4636	7.50	4.41	514	A4648	4.95	2.91
226	A4657	5.95	3.50	277S	A4669	5.95	3.50	716	A5135	4.95	2.91
230	A4672	7.50	4.41	281	A4638	4.95	2.91	722A	A4691	4.95	2.91
231	A4674	7.25	4.26	285XS	A4638	4.95	2.91	728A	A4692	4.95	2.91
235	A4675	5.95	3.50	P285Y	A4687	7.00	4.12	850	A5145	2.95	1.73
245	A4632	4.95	2.91	286S	A4641	5.50	3.23	852	A5146	2.95	1.73
245A	A4681	4.95	2.91	289Y	A4642	4.95	2.91	853	A5147	2.95	1.73
W245	A4682	4.95	2.91	292	A4652	3.45	2.03	854	A5148	2.95	1.73
W245A	A4640	4.95	2.91	294	A4653	2.95	1.73	860M	A5136	2.50	1.47
245C	A4689	4.95	2.91	294SW	A4643	2.95	1.73	901M	A5137	2.50	1.47
246	A4688	4.95	2.91	296	A4644	2.95	1.73	902M	A5138	2.50	1.47
246P	A4680	4.95	2.91	297	A4660	3.95	2.32	903M	A5139	2.50	1.47
W246	A4683	4.95	2.91	299	A4670	3.95	2.32	952W	A5141	4.95	2.91
247	A4633	4.95	2.91	302S	A4671	6.50	3.82	953W	A5142	4.95	2.91
248	A4633	4.95	2.91	311S	A4645	7.50	4.41	954	A5143	4.95	2.91
249	A4679	4.95	2.91	500P	A4677	2.95	1.73				
253	A4650	3.95	2.32								

Select the vibrator you want from set listing below. For price, see chart above which shows prices for all Mallory vibrators.



Use Your M. Y. Encyclopedia

See your new Mallory-Yaxley Encyclopedia for help in selecting the proper vibrator for any set. Mallory-Yaxley Encyclopedia is listed on page 111. Get your copy now.

FREE VIBRATOR GUIDE

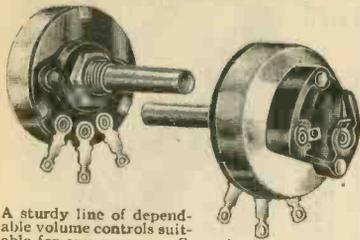
Write for a FREE copy of the Mallory-Yaxley Vibrator Guide. Contains complete listing by sets sands of auto radios; valuable data on vibrator installation, noise suppression, etc. Ask for A4659.

Name and Model	Mfrs. No.	Name and Model	Mfrs. No.	Name and Model	Mfrs. No.	Name and Model	Mfrs. No.
AIRLINE		DELCO (Cont.)		MOTOROLA		STEWART-WARNER	
62-166, 62-118, 6U	253	6010	245	8-30, 8-40, 8-50, 8-60		R112, 1121, 1122	
62, 062	268	630, 631, 632, 633	294	9-29, 9-44, 9-49		1123	292
102	299	631A	294	15F, 16-C, 17-D		R118, 1171, 1172	294
87	292	R6010-12, R6015	245A	17D-A312,		R189	285XS
62-199	286S	DETROLA		17D-A313,		1601 to 9, 143	294SW
62-202, 62-236	294	6A, 1100, 1100A	220B	17D-A314,		R132, R1322	289Y
ARVIN		6M, 6R, 111, 112	204	17D-A315		STROMBERG-CARLSON	
15, 25, 35, 45 1st Ser.	296	1934, 1935 (3 Lead)	292	18-0, 25N	902M	33, 33A, 33X	210
10A, 20A, 30A, 20B		EMERSON		9-24	903M	UNITED MOTORS	
30B, 16, 15, 25, 35,		965, 667	296	34, 35, 45, 50, 60, 65,		BUICK-OLDS-PONTIAC	
45 2nd Ser.	292	5A	277S	70, 80, 90, 8-70,		A5A3	247
18, 28, 33, 38, 7, 17,		678-1 & 2, 34F7	222	8-80, 9-69, 19-B,		393884-5, 405045	273C
47A, 27, 37, 39, 42	294	6A	253Y	24K, Police	901M	405046 Series	273C
61B, 62B, 517B, 617B,	245	ERLA-SENTINEL		61, 88	302S	544267 Series	273C
627B, 527B	850	5500, 10M, 1601 to 9	294	77	230	980507-9, 980525-6,	273D
19, 9A		600, 602, 603	292	77A, 44A, 66, Super 6	270B	980529, 985300	514
ATWATER KENT		FADA		55, 55A	231	980534-5	221
666, 776	296	101, 102, 104, 104B	221	44	235	364441, 980393	222
816, 424, 534	226	166	253Y	57, 62, 75, 79, 100, 110	253T	980441, 980455,	294
126, 136, 416, 446, 556	294	266, 266SD, 266SG	294	Dual 6, Twin 8	292	980459	716
AUDIOLA		FIRESTONE		MUSIC MASTER		985252, 985254,	852
33A6	225	R1322, R132	289Y	TELCO		985285, R640-3,	245A
C6, 64, 74	294	54, 64, R1332, R133	294	PHILCO		R6010-12, R6015	860
3356 (1st Series)	302S	TRAVELER	294SW	All to 1936, 816,	500P	7237499, 7237500-1	
3356 (2nd Series)	292	R1431, R143, R178		1936 and 817, 818, 819	501P	7237600	
345, 347 (6 Prong), B6	297	FORD		1937, 1938	505P	WELLS-GARDNER	
43, 67, 73 Series	246	MAJESTIC 40-18805	220B	821P, 821PV	506P	6U, 6S	253
BELMONT		FT6, FT9	500P	HT11X, T10	507P	V6Z2, Z6Z1	205
661, 666, 667, 677	294	PHILCO (1936), 817,	501P	920, 921, 922	508P	072, 072A, 06W, 06,	210
660 (Vibrator only)	292	818, 819		38-35 (121), 38-40		6N	248
880, 670, 680 Series	299	FREED		(121)	510P	6K	286S
1932 Models	311S	A7, A9	210	37-34, 37-624, 38-39	951P	25V1 (5V)	210
BOSCH		G, E		(121)	P285Y	WURLITZER	
140 (2nd & 3rd Ser.)	271	B40, C41, B52	271*	624		A60, 460	292
536, 636, 637, 524A,		C60	253	RCA-VICTOR		666, 668, 680, 6M90,	294
634-634A	253Y	D50, D51, D52	286S	AR-4229	245A	7M91S, 7M91D	294SW
150 (1st Series)	210	N51	249	BC6-6, BT6-5		5M90 (Ch. 5510)	853
150 (2nd Series)	271	C61	224	5M, 6M, 6M2, 8M3,		650HD, 651HE	292
736, 737, 738, 838	294	D72, N-60, N602	294	8M4, 67M1, 67M2,		660TD, 661TE	
79C	253	U51, U55	246	67M3	249		
189HB, 189HR	249	GRUNOW		M34, M105, M116,	271*		
(Police)	245	614, 618, 5AB	294	M107 (6V), M104	253		
600		625	273D	M101 (6 V.), M108 (6 V.)	286S		
CHEVROLET		INTERNATIONAL		M109, H6	224		
364441, 4036	221	K60, K6	296	M123	246P		
600153 Series	273C	KNIGHT		M1-7815			
601033 Series	294	F9541, F9551	292	CVB, 6BK6, 6BT6,	W245A		
985100, 985200	273D	U 6	294	8BK8, 8BT6	246P		
985300, 985301	294	L7, X6, Z4, Z5, BA41	245C	AVR10A, EG-45A			
985252, 985254,	852	A9811-12, H9817	285XS	8M, 8M1, 8M2, 9M1,	850		
985285		55 (E10890)	294	9M2, 67M			
985253, 985255,	294C	69 (E10891)	294	84BT6, 94BT6,	722A		
985283-4		LEWOL		94BT61	728A		
CROSLEY		9101-2	292	85BT6			
98, 99, 102, 103, 5A1	223	L'TATRO		SEARS-ROEBUCK			
4A1, 5A3, A155	247	6A, J665, I465,		7128 (4 PRONG)	294		
A106, A25, A355	273C	H465, K665	271	7117, 1859A	271		
A366, A455, A555	273C	R, S, O 5636; O, P,		7128 (6 PRONG)	296		
A157, A167, A177	501P	4626; M 4616 (1st	275XS	4430	249		
6615, 435, 546, 636	246P	Ser.)		3400	504		
A156, A158, A168,		R, S, O 5636; O, P,	285XS	SIMPLEX			
A258, A266, A267,	850	4626; M4616 (2nd		T (Early)	292		
A268, 587, 667		Ser.)		T (Late), GB, PB	245C		
DELCO		MAJESTIC		TA	248		
2035, 4036	221	66, 116, 116A, 118	220B	SPARTON	292		
4037, 4038	222	MALLORY		33, 33A, 33B, 333	222		
626, 627, 628, 629	273C	Type 1, 2, 3, 4	201	36			
634, 635		10, 11, 12, 13, 14 Ser.	210				

*Add 30c net for special cup adapter. A4690.

Finest Quality VOLUME CONTROLS

KNIGHT UNIVERSAL VOLUME CONTROLS



A sturdy line of dependable volume controls suitable for any purpose. Smooth contact action insures quiet operation. Efficient, moisture-proof units. Conservatively rated at one watt. Case, 1 1/2" diameter; shaft 1/4" dia. extends 1 1/2". Code letter following resistance value indicates use: A—Antenna control. U—Combined Antenna and C bias. W—C bias control. P—Linear Potentiometer. T—Tone Control or audio shunt.

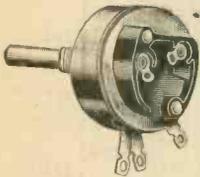
No.	Ohms	No.	Ohms
A5960	1000A	A5965	25000P
A5961	2000A	A5966	50000T
A5958	3000P	A5967	75000W
A5962	5000U	A5968	10000T
A5963	10000U	A5969	25000T
A5959	15000P	A5970	50000T
A5964	20000W	A5971	1 Meg. T

LOTS OF 5, EACH 25c. NET EACH, LESS SWITCH..... **28c**

A.C. SWITCH

A5972, Standard AC switch for use with Knight Volume Controls listed above. Easily attachable. NET..... **12c**

UTAH-CARTER VOLUME CONTROLS



Improved carbon type volume control. Insulated contact arm; dustproof case. Dissipates 2 watts. Universal milled shaft, 1/4" diameter, 3" long; may be cut to desired length. Mounts in single 3/8" hole. Dia. 1 1/4". Clockwise taper uniform taper.

SPECIFY VALUES WHEN ORDERING.

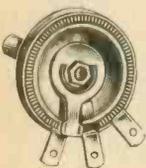
Ohms	Ohms	Ohms	Ohms
600	6000	25000	200000
1000	10000C	50000	250000C
2000	10000	75000CC	500000C
3000	15000C	100000C	1 Meg. C
5000	20000C		

A6950, LESS SWITCH. NET EACH..... **30c**

ATTACHABLE SWITCH

A6951, Switch for above. NET..... **14c**

UTAH-CARTER MIDGETS



Extremely compact, precision-built wire-wound units. Only 1 1/8" dia. and 1/2" deep back of panel. Open construction provides maximum heat radiation. Dissipate 3 watts. Single hole mounting type. Shaft 1/4" diameter, 1 1/2" long from bushing. Contact arm is grounded to bushing and frame.

POTENTIOMETERS

No.	Ohms	No.	Ohms
A9020	6	A9025	400
A9021	10	A9026	500
A9022	15	A9027	1000
A9023	20	A9028	1500
A9024	200		

RHEOSTATS

No.	Ohms	No.	Ohms
A9030	1/2	A9037	20
A9031	1	A9038	25
A9032	2	A9039	30
A9033	3	A9040	40
A9034	6	A9041	50
A9035	10	A9042	75
A9036	15		

List, 40c. NET EACH..... **23c**

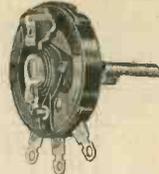
FAMOUS QUALITY

STANDARD TYPE CS



VOLUME CONTROLS

CONTROL GUIDE

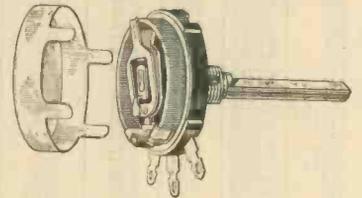


to attach, 1 1/4" dia., 3/8" bushing; milled shaft 2 1/4" long. Uses: A—Potentiometer, uniform resistance change; C—Audio grid or antenna shunt; D—Grid bias and antenna; F—Antenna and low current bias; H—Audio level control for bass compensation.

IRC exclusive features assure silent operation. Famous Metallized Resistance on bakelite bases; silent pigtail connector; multi-finger direct contact; steel spring as thrust washer on shaft. Switch is easy

The very latest edition of this valuable booklet. Lists exact standard and replacement controls for practically every radio receiver in use. Packed with technical information on control circuits and other data; also contains complete IRC Resistor Catalog. A11938. FREE ON REQUEST.

NEW TYPE W WIRE-WOUND VOLUME CONTROLS



An improved wire-wound volume control that sets new standards of durability, accuracy and ruggedness. Has spiral spring connector between terminal and rotor arm, assuring positive contact. Windings are engineered to correct electrical specifications to provide accuracy at any given point. Compact size; case measures 1 1/4" diam. x 3/8" deep, 3" shaft. Special switches for these controls are listed below:

No.	Use	Ohms	No.	Use	Ohms
A11900	A	500	A11918	C	50000
A11901	A	1000	A11919	C	75000
A11902	A	2000	A11920	D	75000*
A11903	A	3000	A11921	A	100000
A11904	A	4000	A11922	A	100000
A11905	A	5000	A11923	A	200000*
A11906	C	5000	A11924	D	200000*
A11980	A	7500	A11925	C	250000
A11908	F	10000*	A11981	D	250000*
A11909	D	10000*	A11982	C	350000
A11910	C	10000	A11926	A	500000
A11911	D	15000*	A11927	A	500000
A11912	F	15000*	A11928	D	500000
A11913	D	20000*	A11929	C	1 Meg.
A11914	D	25000*	A11931	C	2 Meg.
A11915	F	25000*	A11932	C	3 Meg.
A11916	F	25000*	A11935	A	5 Meg.
A11917	A	50000	A11937	F	7 Meg.
			A11936	A	10 Meg.

*These controls are supplied with a 300 ohm 1/2 watt resistor without additional charge. Used for replacing grid bias controls in circuits requiring fixed minimum resistance.

LESS SWITCH, NET EACH..... **59c**

TAPPED CONTROLS

A11984	A	250000t		
A11985	H	250000t		
A11986	H	350000t	Less Switch	
A11928	H	500000t	NET EACH.....	88c
A11933	H	1 Meg. t		
A11930	A	1 Meg. tx		
A11934	H	2 Meg. t		

t—Tapped for tone control circuit.
x—Special control for use as fader.

ATTACHABLE SWITCHES

A11988, S.P.S.T. Switch. NET..... **29c**
A11989, D.P.S.T. Switch. NET..... **35c**

TYPE D MIDGETS



IRC Midget Controls are designed for use where installation space is limited. Identical in internal construction with the Standard Type CS control. Detachable plug-in Type A shaft is packed with each control; packed with each control where a slotted or tongued shaft is required; must be ordered separately. Switch may be attached. Case diameter, 1 1/8". Case depth, length, 3/8"; with switch, 2 1/2". Bushing length, 3/8"; diameter, 3/8".

No.	Use	Ohms	No.	Use	Ohms
A14280	A	5000	A14286	C	100000
A14281	A	10000	A14287	C	250000
A14282	D	10000*	A14288	C	350000
A14283	F	10000*	A14289	C	500000
A14284	F	15000*	A14290	C	1 Meg.
A14285	C	50000	A14291	C	2 Meg.

* These controls are supplied with 300 ohm 1/2 watt resistor for fixed minimum bias. LESS SWITCH, NET EACH..... **59c**

TAPPED CONTROLS

A14292	H	250000t		
A14293	H	350000t	Less Switch	
A14294	H	500000t	NET EACH.....	88c
A14295	H	1 Meg. t		
A14296	H	2 Meg. t		
A14299	Type B	Funnel Shaft. NET 21c		

ATTACHABLE SWITCHES

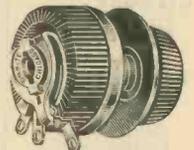
A14297, S.P.S.T. Switch. NET..... **29c**
A14298, D.P.S.T. Switch. NET..... **35c**

SWITCHES FOR ABOVE

Easily and quickly attached.
A14224, S.P.S.T. Switch. NET..... **29c**
A14225, D.P.S.T. Switch. NET..... **35c**

OHMITE VITREOUS ENAMELED RHEOSTATS

High quality heavy-duty wire-wound rheostats for radio and power control circuits. Ratings are conservative; air-cooled. Large contact shoe of metal impregnated with carbon-graphite insures good contact with minimum wear. Insulated shaft; requires 3/8" mounting hole. 3 terminals; may be used as potentiometer.



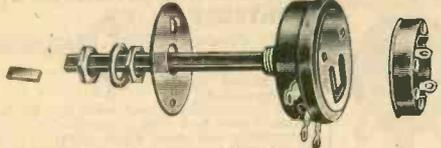
Model H-25	Watt	Model J-50	Watt
No.	Ohms	No.	Ohms
A6600	2	A6622	.5
A6601	2	A6623	1
A6603	6	A6624	1
A6605	10	A6625	4
A6606	15	A6626	8
A6607	25	A6627	12
A6609	50	A6628	22
A6610	100	A6630	50
A6612	175	A6631	80
A6613	250	A6632	150
A6615	500	A6633	225
A6616	750	A6634	300
A6617	1000	A6635	500
A6618	1500	A6637	1000
A6619	2500	A6639	2500
A6620	3500	A6641	5000
A6621	5000	A6643	10000

MODEL K—100 WATTS

No.	Ohms	Each	No.	Ohms	Each
A6405	0.5		A6410	50	
A6406	2	\$4.41	A6411	100	\$4.12
A6407	3		A6412	500	
A6408	10	4.12			
A6409	25		A6413	1000	4.41

MALLORY-YAXLEY VOLUME CONTROLS

UNIVERSAL VOLUME CONTROLS



Listings on these pages constitute practically all of the Yaxley Volume Controls. With a comparatively small stock, you can now meet the requirements of 90% of all repair jobs. Universal controls, supplied with knob adapter, washer and nuts. They have adjustable bias feature and 3" shaft which can easily be shortened. All controls are listed LESS SWITCHES. Where switch is required, select proper switch cover from listing below, and order as separate unit. **NOTE: All units will be shipped less switch unless switch is specified in your order and extra remittance made.**

UNIVERSAL REPLACEMENT CONTROLS

No.	Ohms	Type	Taper	No.	Ohms	Type	Taper
A8583	2	IO	IV	A8618	15000	*H12	I
A8584	5	IR	IV	A8619	15000	**H7	II
A8585	10	IS	IV	A8620	15000	**H7	VII
A8586	20	T	IV	A8621	20000	**A20MP	IV
A8587	30	U	IV	A8622	20000	*Y	IV
A8588	60	V	IV	A8623	25000	Y25MP	IV
A8589	100	X	IV	A8624	25000	*J	II
A8590	200	X	IV	A8625	50000	Y50MP	IV
A8591	400	*A400P	I	A8626	50000	K12	IV
A8592	2000	*A	I	A8627	50000	*K	II
A8593	550	*A550P	IV	A8628	75000	Z12	I
A8594	1000	*A1MP	IV	A8629	75000	*Z	II
A8595	1000	*B	I	A8630	100000	Y100MP	IV
A8596	1000	*UC500	II	A8631	100000	L	I
A8597	2000	**A2MP	IV	A8632	100000	*UC510	I
A8598	2000	*C12	I	A8633	150000	UC502	IV
A8599	2000	*A	IV	A8634	200000	Y200MP	IV
A8600	3000	**A3MP	II	A8635	250000	Y250MP	IV
A8601	3000	*D12	I	A8636	250000	M	I
A8602	3000	*D	II	A8637	250000	*UC511	II
A8603	3000	*D7	VII	A8638	250000	*UC509	IV
A8604	5000	**A5MP	IV	A8639	500000	Y500MP	IV
A8605	5000	Y5MP	IV	A8640	500000	N	I
A8606	5000	*E12	II	A8641	500000	*UC512	I
A8607	5000	*E	II	A8642	500000	**UC515	II
A8608	5000	*E7	VII	A8643	500000	UC513	II
A8609	7500	*F12	I	A8644	750000	*UC503	IV
A8610	7500	*F	II	A8645	1 Meg.	Y1000MP	IV
A8611	7500	*F7	VII	A8646	1 Meg.	O	I
A8612	10000	**A10MP	IV	A8647	1 Meg.	*UC514	II
A8613	10000	*Y10MP	IV	A8648	2 Meg.	P	I
A8614	10000	*G12	I	A8649	3 Meg.	UC504	IV
A8615	10000	*G	II	A9000	4 Meg.	UC505	I
A8616	10000	UC501	II	A9001	5 Meg.	UC506	II
A8617	10000	*G7	VII	A9002	5 Meg.	UC507	I
				A9003	9 Meg.	UC508	I

* Adjustable Bias.
 † Slotted Shaft for auto sets.
 ‡ Long shaft for auto sets, etc.
 † Wire-Wound. Rest are Carbon.

List. \$1.00.
 NET EACH. **59¢**

ATTACHABLE VOLUME CONTROL SWITCHES

Volume controls listed on this page do not have switches. Select switch to fit your control requirements from listing below.

A9004. Type 6-9. Standard S.P.S.T. Special thin design. List. 50¢. NET 29¢	A9006. Type 8. S.P.D.T. List. 60¢. NET 35¢
A9005. Type 7. D.P.S.T. Similar to type 6-9. List. 60¢. NET 35¢	A9007. Type 13. Shorting. (3PST) List. 60¢. NET 35¢
	A9008. Type 14. Shorting. (4PST) List. 60¢. NET 35¢

EXPLANATION OF YAXLEY TAPERS:

TAPER I: A modified log, left-hand taper in the carbon unit; semi-log in W.W. unit. For audio or ant. shunt circuits.
TAPER II: A right hand log, taper in the carbon unit; semi-log in the W.W. unit. For series circuits, such as cathode voltage controls.
TAPER IV: Linear taper. Used where the voltage changes proportionately to the degree of rotation.
TAPER IV A: Modification of regular linear taper IV above.
TAPER VII: A left hand taper found only in wire-wound controls. Useful in combined antenna and bias control circuits.

UNIVERSAL "TRP" TAPPED CONTROLS

Cat. No.	Mfg. No.	Res. Ohms	Tapped at Ohms	Cat. No.	Mfg. No.	Res. Ohms	Tapped at Ohms
A9200	TRP600	6M	2500	A9213	TRP613	2 Meg.	450M
A9201	TRP601	30M	6M	A9214	TRP614	350M	75M
A9202	TRP602	63M	3M	A9215	TRP615	3 Meg.	1 Meg.
A9203	TRP603	250M	125M	A9216	TRP616	500M	50M
A9204	TRP604	350M	25M	A9217	TRP617	60M	10M
A9205	TRP605	350M	75M	A9218	TRP618	2 Meg.	200M
A9206	TRP606	500M	100M	A9219	TRP619	500M	100-300M
A9207	TRP607	500M	250M	A9220	TRP620	2 Meg.	1 Meg.
A9208	TRP608	1 Meg.	200M	A9221	TRP621	2 1/2 Meg.	250-500M
A9209	TRP609	1 Meg.	500M	A9222	TRP622	4 Meg.	7-14M
A9210	TRP610	1 Meg.	20M	A9223	TRP623	250M	50M
A9211	TRP611	1 Meg.	170M	A9224	TRP624	2 1/2 Meg.	250-500M
A9212	TRP612	2 Meg.	25M				

*No provision for switch. Use TRP624.
 NET EACH (less switches) **88¢**

HERE'S THE NEW 3RD EDITION MALLORY-YAXLEY ENCYCLOPEDIA

Your volume control worries are over when you use the Mallory-Yaxley Encyclopedia. And this new Third Edition is packed full of information you need for all servicing work. Here, in one book—on one page—on one line, is the correct answer to each service problem. 200 pages of receiver listings cover thousands of models, include tube complements, volume control and condenser requirements, etc. Rider's reference is given for every set. 256 pages. 8 1/2 x 11". Shpg. wt., 2 lbs. **A11869. YOUR NET PRICE. 75¢**



SPECIAL SINGLE "SRP" CONTROLS

These controls are especially made for receivers whose volume control requirements are so special that they cannot be met by the universal type controls. These controls have special electrical or mechanical features, making them suitable for special replacement purposes. Consult the Mallory-Yaxley Encyclopedia for correct selections.

Mfg'r's. Type	Resis. Ohms	Mfg'r's. Type	Resis. Ohms	Mfg'r's. Type	Resis. Ohms
*SRP133	2M	*SRP249	20M	*SRP272	300
*SRP134	4500	*SRP251	250M	*SRP274	10M
*SRP138	450	*SRP252	500M	*SRP275	500M
*SRP139	550	*SRP253	400	**SRP276	3M
*SRP141	1200	*SRP254	3500	*SRP277	2M
*SRP142	2900	*SRP255	15M	*SRP278	500M
*SRP144	2M	*SRP256	10M	*SRP279	50M
*SRP145	2M	*SRP257	3M	*SRP281	500M
*SRP150	50M	*SRP258	15M	*SRP282	350M
**SRP152	60	**SRP259	50M	*SRP283	2500
*SRP153	13M	*SRP260	100M	*SRP284	100M
*SRP154	50M	*SRP261	1500	*SRP285	500M
**SRP160	3200	*SRP262	1500	*SRP286	250M
*SRP170	75M	†SRP263	32M	†SRP287	5M
*SRP179	125M	*SRP264	650	*SRP288	100M
*SRP185	1500	*SRP265	200	†SRP289	63M
*SRP188	32M	**SRP266	600	*SRP900	20M
*SRP213	250M	*SRP267	8M	*SRP901	10M
*SRP216	500M	*SRP268	15	*SRP960	800
*SRP223	1M	*SRP269	10M	*SRP961	10M
*SRP245	32M	*SRP271	150	*SRP962	250M

A9230. Specify Type Number and Value When Ordering. 88¢
 List. \$1.50. NET EACH

A9226 SRP239. 450 Ohms. Vol. Strip **29¢**
A9227 SRP241. 600 Ohms. Vol. Strip **29¢**
A9228 SRP273. 500,000 Vol. Control with Switch. NET \$1.18
A9229 SRP280. 500,000 Vol. Control with Switch. NET \$1.18

*Volume Control. †Phono Control. ††Phono-Sens. Control.
 **Hum Control. †††Tone-Beam Control. ††††Phono-Vol. Control.
 †††††Volume-Tone. ††††††Regeneration Control. †††††††Equalizer Control.

SPECIAL DUAL "DRP" CONTROLS

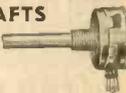
Consist of two separate resistance elements ganged and controlled by one shaft. These dual units will service practically all sets employing this type of control. Consult your Mallory Encyclopedia for control you require and then order from this listing.

Type	Resistance		Type	Resistance		Type	Resistance	
	Front	Rear		Front	Rear		Front	Rear
DRP114	250	5M	DRP241	5M	150M	DRP306	5M	10M
DRP115	3800	3800	DRP242	10M	500M	DRP307	3M	12M
DRP116	25700	10000	DRP243	3M	750M	DRP308	50M	50M
DRP117	500	2500	DRP244	25M	6M	DRP309	12M	65M
DRP119	3M	10M	DRP245	1 Meg.	3 Meg.	DRP310	25M	25M
DRP122	645	10M	DRP246	32M	50M	DRP311	150M	250M
DRP129	7500	10M	DRP250	50M	1M	DRP312	75M	500M
DRP221	10M	100M	DRP301	5M	250M	DRP313	1M	500M
DRP222	75M	32M	DRP302	100M	250M	DRP314	500M	2500
DRP232	3 Meg.	3 Meg.	DRP303	2500	100M	DRP315	2 Meg.	2500
DRP239	25M	25M	DRP304	1 Meg.	3 Meg.	DRP316	200M	1M
DRP240	250M	10M	DRP305	25M	25M	DRP317	500M	1M

DRP311 is tapped at 160M ohms.
A9231. Specify Type Number and Value When Ordering. \$1.47
 List. \$2.50. NET EACH

MIDGET "MR" CONTROLS—FIXED SHAFTS

A new series of midget replacement volume controls for use where special shafts and couplings are unnecessary. Efficiently built, compact, long-lived Switch cover and cam accommodate attachable shafts wherever required. 1 1/2" dia.; 3" shaft.



Ohms	Type	Taper	Ohms	Type	Taper	Ohms	Type	Taper
5000	MR14	IV-A	50000	MR33	I	250000	MR44	I
10000	MR18	I	50000	MR34	II	250000	MR45	II
10000	MR19	II	50000	MR35	IV	500000	MR48	IV
10000	MR20	I	75000	MR36	I	500000	MR50	I
15000	MR21	I	75000	MR37	II	750000	MR51	I
15000	MR22	II	100000	MR39	I	1 Meg.	MR53	I
20000	MR24	I	100000	MR40	II	2 Meg.	MR55	I
25000	MR28	II	100000	MR41	I	3 Meg.	MR57	I
25000	MR29	IV	150000	MR42	I			

A9264. Specify Type Number and Value When Ordering. 59¢
 List. \$1.00. NET EACH

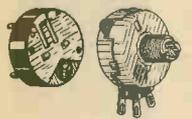
MIDGET SWITCHES FOR "MR" CONTROLS

A9240. Type M26. Single Pole Single Throw. NET 29¢
A9241. Type M27. Double Pole Single Throw. NET 35¢
A9242. Type M28. Single Pole Double Throw. NET 35¢

SEE ADDITIONAL M-Y VOLUME CONTROLS ON NEXT PAGE.

MALLORY-YAXLEY VOLUME CONTROLS

TYPE UM UNIVERSAL MIDGETS



These new midget controls, together with Plug-In Shafts below, offer a great advance in volume control servicing. Consult the M-V Encyclopedia (see page 114) for proper selection and taper. 1 1/4" dia., 1/2" W.

See page 111 for attachable switches. **NOTE:** We can select for your proper controls and shafts for most sets. Send name, model number, and tube lineup of receiver, and 88c for each unit (less switch) ordered.

Ohms	Type	Taper	Ohms	Type	Taper
5M	UM114	IV-A	100M	UM143*	I
10M	UM118	I	150M	UM144	I
10M	UM119	II	250M	UM147	I
10M	UM120	IV	250M	UM149	IV
15M	UM121	I	250M	UM150*	I
15M	UM122	II	350M	UM151	I
15M	UM123	I	500M	UM154	I
25M	UM128	II	500M	UM156	IV
25M	UM129	IV	500M	UM157*	I
50M	UM133	I	750M	UM158	I
50M	UM134	II	1 Meg.	UM161	I
50M	UM135	IV	1 Meg.	UM162*	I
75M	UM137	I	2 Meg.	UM163	I
75M	UM138	II	3 Meg.	UM165	I
100M	UM140	I	100M	UM180*	Spec.
100M	UM141	II	2 Meg.	UM181*	Spec.
100M	UM142	IV			

* Clutch type controls—no provision for attachable shaft. † Right hand switch action.

A13945. Less shaft. Specify values and type nos. when ordering.
List Each \$1.25. **NET EACH 73c**

TYPE TM TAPPED MIDGETS

Similar to UM type above but have tone control tap. Especially designed for use where space is limited. Be sure to specify SS type Plug-In Shaft desired when placing order.

Ohms	Type	Taper	Ohms	Type	Taper
250M	TM219*	5	1 Meg.	TM242*	5
250M	TM220	5	2 Meg.	TM243	5
250M	TM221	5	2 Meg.	TM245	5
250M	TM222	5	2 Meg.	TM246	5
350M	TM225	5	2 Meg.	TM247	5
500M	TM228	6	2 Meg.	TM248	5
500M	TM229*	5	2 Meg.	TM249	5
500M	TM230	5	2 Meg.	TM251	5
500M	TM231	5	2 Meg.	TM252*	5
1 Meg.	TM232*	5	2 Meg.	TM253	Spec.
1 Meg.	TM240	5	3 Meg.	TM257	4
1 Meg.	TM241*	5			

* Clutch type controls. No provision for attachable switch.

A13946. Less shaft. Specify values and type nos. when ordering.
List Each \$1.25. **NET EACH 73c**

TYPE SS PLUG-IN SHAFTS

For use with UM and TM controls listed above. A complete set of Plug-In Shafts plus 56 "M" controls will cover 952 replacements.

No.	Type	No.	Type	No.	Type
A13950	SS1	A13956	SS7	A13962	SS13
A13951	SS2	A13957	SS8	A13963	SS14
A13952	SS3	A13958	SS9	A13964	SS15
A13953	SS4	A13959	SS10	A13965	SS16
A13954	SS5	A13960	SS11	A13966	SS17
A13955	SS6	A13961	SS12		

List Each, 25c. **YOUR PRICE EACH 15c**

VOL. CONTROL ACCESSORIES



Valuable accessories to improve volume control replacement service. Threaded hole in wrench recuts marked or damaged threads on volume control. Wrench fits all standard hex nuts.

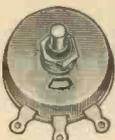
A13940. Type RS242. Universal Extension Shaft. Aluminum; can be cut to length. 4" long, 1/4" dia., 1/2" flat. **NET 18c**

A13941. Type UB241. Universal Bushing and Nut. Accommodates 1/4" shaft. Permits mounting control back of panel. **NET 5c**

A13942. Volume Control Wrench. Easy to handle. Prevents marring panels. **NET 12c**

TYPE M RHEOSTATS

The wire-wound Mallory-Yaxley Type M Rheostats and Potentiometers listed below are designed for use where a high wattage control must be used in a limited space. Conservatively rated at 4 watts. Contact arm insulated. Smooth acting; fully enclosed. Extremely compact. Case 1 1/4" diameter, 3/8" deep. Shaft 1/4" dia., extends 3/8" from bushing. Mounts in 7/8" hole. Mounting nut included.



Ohms	Type	Amps.	Ohms	Type	Amps.
1/2	M05R	2.75	20	M20R	5
1	M1R	2.2	25	M25R	.45
2	M2R	1.5	30	M30R	.40
3	M3R	1.3	40	M40R	.35
4	M4R	1.1	50	M50R	.32
6	M6R	.9	60	M60R	.29
10	M10R	.7	75	M75R	.25
15	M15R	.6			

A13947. Specify values when ordering.
List, 75c. **NET EACH 44c**

TYPE M POTENTIOMETERS

Ohms	Type	No.	NET EACH
15	M15P	A13050	
20	M20P	A13051	
25	M25P	A13052	
30	M30P	A13053	
40	M40P	A13054	
60	M60P	A13055	
75	M75P	A13056	
100	M100P	A13057	59c
200	M200P	A13058	
400	M400P	A13059	
500	M500P	A13060	
600	M600P	A13061	
1M	M1MP	A13062	
2M	M2MP	A13063	
3M	M3MP	A13064	73c
4M	M4MP	A13065	
5M	M5MP	A13066	
10M	M10MP	A13067	
15M	M15MP	A13068	
20M	M20MP	A13069	88c
25M	M25MP	A13070	
50M	M50MP	A13071	\$1.18
70M	M70MP	A13072	

TYPE C RHEOSTATS

The smallest wire-wound control manufactured. Dissipates 2 watts. Ideal for test instrument use. Contact arm and center terminal grounded to case. Diameter of case, 1 1/2"; extends 7/8" back of panel. 3/8" threaded shank, 3/4" long. Shaft 1/4" extending 3/4" beyond shank. 284° total rotation; 266° effective electrical rotation. Less knob.



Ohms	Type	Amps.	Ohms	Type	Amps.
6	C6R	.58	30	C30R	.25
10	C10R	.45	40	C40R	.22
15	C15R	.36	50	C50R	.2
20	C20R	.3	100	C100R	.14

A13075. Specify values when ordering.
List, 75c. **NET EACH 44c**

TYPE C POTENTIOMETERS

An indispensable control for use where space is at a premium. Has same physical dimensions and electrical characteristics as Type C Rheostats above. Less knob.

Ohms	Type	No.	NET EACH
6	C6P	A13080	
10	C10P	A13081	
15	C15P	A13082	
20	C20P	A13083	
30	C30P	A13084	
40	C40P	A13085	59c
50	C50P	A13086	
100	C100P	A13087	
200	C200P	A13088	
400	C400P	A13089	
1M	C1MP	A13090	
3M	C3MP	A13091	73c
5M	C5MP	A13092	
6M	C6MP	A13093	
10M	C10MP	A13094	88c
15M	C15MP	A13095	

CENTRALAB CONTROLS UNIVERSAL SPLIT-KNURL SHAFT CONTROLS

Newly developed replacement volume controls for late model radio receivers employing brass knurled-shaft used with special push-on knob. These new replacements offer facilities for speedy but exact duplication of originals. Fixed shaft controls in three popular resistance values and two lengths, as indicated below, will take care of practically all volume control servicing needs. Split shafts provide tension for push-on knob. Put in a supply of these new controls now to keep up with new volume control replacement requirements.



Cat. No.	CRL No.	Res. Ohms	Curve No.	Shaft Size	NET EACH
A2100	NK136	250000	6	2 3/8"	
A2101	NK137	500000	6	2 3/8"	59c
A2102	NK138	1 Meg.	6	2 3/8"	
A2103	NK139	250000	6	4"	
A2104	NK140	500000	6	4"	
A2105	NK141	1 Meg.	6	4"	

KNURLED ADASHAFTS

No.	CRL No.	Size	EACH
A2107	K174	2 3/8"	15c
A2108	K175	3 1/8"	15c

NEW UNIVERSAL AUTO REPLACEMENT CONTROLS



All units curve No. 10. All have slip clutches and tone compensation tap. D.P.S.T. switch standard switch type. 1/4" slotted shaft 3" long, easily cut to size. With guide funnel.

Resis.	Type	"NA" Type No Sw.	"PA" Type With Sw.
	No.	Net Each	Net Each
250000	123	A2043	A2047
500000	105	A2044	A2048
1 Meg.	124	A2045	A2049
2 Meg.	125	A2046	A2050

88c **\$1.18**

POWER RHEOSTATS

A rugged rheostat ideal for many commercial applications. Useful as motor speed control, charging rate regulator, etc. Open type construction provides maximum heat dissipation for size. Frame and core insulated with treated asbestos.



No.	Ohms	No.	Ohms
A3000	2	A3005	400
A3001	16	A3006	1000
A3002	15	A3007	5000
A3003	50		
A3004	150		

NET EACH \$1.18

50 WATT		75 WATT	
No.	Ohms	No.	Ohms
A3010	25	A3017	50
A3011	60	A3018	150
A3012	150	A3019	300
A3013	500	A3020	500
A3014	1000	A3021	1000
A3015	5000		

NET EACH 1.47 **PRICE EACH 1.76**

CRL PHONOHS

A new unit offering convenient control facilities for headphones. Compact, portable control in lightweight bakelite case with knob. Easily installed. Potentiometer types for use with single phones. "L" Pad types for group installations such as schools, theaters, churches, etc. Less cord.

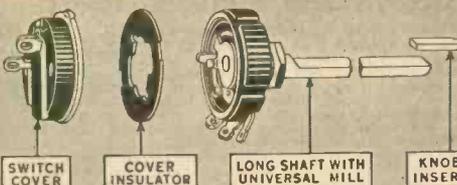


No.	Ohms	Type	EACH
A3922	5M	Potentiometer	
A3923	10M	Potentiometer	
A3924	100M	Potentiometer	88c
A3925	5M	"L" Pad	
A3926	10M	"L" Pad	
A3927	100M	"L" Pad	\$1.18

Centralab VOLUME CONTROLS

CENTRAL RADIO LABORATORIES

CENTRALAB STANDARD RADIOHM



Centralab Radiohms are the famous patented CRL Standard Controls used by Servicemen everywhere. The complete listing below covers practically all volume control requirements. The size of these controls is only 1 1/2" diameter, 3/8" deep, less switch. Each control has a 3/16" x 1/4" shaft which may easily be cut to fit. All units below are carbon type. See chart below for taper. Supplied with or without "snap-on" switch No. A2125 described below. This high-grade line of controls has universal acceptance.

Less Switch No.	CRL No.	Max. Res. Ohms	Taper No.	With Switch No.	CRL No.	Less Switch No.	CRL No.	Max. Res. Ohms	Taper No.	With Switch No.	CRL No.
A3025	72-118	500	1	A3060	62-118	A3042	72-102	25000	3	A3077	62-102
A3026	72-107	1000	1	A3061	62-107	A3043	72-103	50000	1	A3078	62-103
A3027	72-101	2000	1	A3062	62-101	A3044	72-117	50000	6	A3079	62-117
A3028	72-108	3000	1	A3063	62-108	A3045	72-123	75000	6	A3080	62-123
A3029	72-109	4000	1	A3064	62-109	A3046	70-202	75000	4	A3081	52-202
A3030	72-110	5000	1	A3065	62-110	A3047	72-104	100000	1	A3082	62-104
A3031	70-204	5000	6	A3066	52-204	A3048	72-122	100000	6	A3083	62-122
A3032	72-139	7500	1	A3075	62-139	A3049	72-136	150000	6	A3094	62-136
A3032	72-114	10000	1	A3067	62-114	A3049	72-120	200000	1	A3084	62-120
A3033	72-113	10000	3	A3068	62-113	A3050	72-121	200000	4	A3085	62-121
A3034	70-205	10000	4	A3069	52-205	A3051	72-131	250000	4	A3086	62-131
A3035	72-100	10000	6	A3070	62-100	A3052	72-105	500000	6	A3087	62-105
A3036	72-115	15000	3	A3071	62-115	A3053	72-106	500000	1	A3088	62-106
A3037	79-006	15000	4	A3072	99-006	A3054	70-203	500000	4	A3089	52-203
A3038	72-119	20000	3	A3073	62-119	A3055	72-116	1 Meg.	6	A3090	62-116
A3039	72-111	25000	1	A3074	62-111	A3056	72-137	2 Meg.	6	A3097	62-137
A3041	70-206	25000	4	A3076	52-206	A3056	72-132	3 Meg.	6	A3091	62-132

LESS SWITCH. EACH. **59c** WITH SWITCH. EACH. **88c** LESS SWITCH. EACH. **59c** WITH SWITCH. EACH. **88c**

TAPPED RADIOHMS

A3059	72-138	250000	10	A3098	62-138
A3057	72-134	500000	10	A3092	62-134
A3058	72-135	1 Meg.	10	A3093	62-135
A3056	72-142	2 Meg.	10	A3099	62-142

LESS SWITCH. NET EACH. **88c** WITH SWITCH. NET 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 Radiohm snap-on switch).

CRL No.	Res. Ohms	CRL No.	Res. Ohms	CRL No.	Res. Ohms
V100	2	V114	40	VF128	750
V102	4	V116	50	VF129	1000
V104	6	V117	60	VF131	2900
V106	8	V118	75	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		

A2004. Specify Type Number and Value when ordering the above controls. List \$1.00. NET EACH. **59c**

RADIOHM SWITCH COVERS

Underwriters' approved. Bakelite insulated switch mounted on snap-on type plate. Convert any plain Radiohm to switch type. Easy to attach, always smooth-acting.

A2125	S.P.S.T. Standard	29c
A2126	S.P.D.T. 3 Lugs	35c
A2127	D.P.S.T. 4 Lugs	35c
A2128	S.P.D.T. Clockwise	35c
A2129	S.P.S.T. Dummy Lug	35c
A2130	4 Point (for Battery Radios)	35c

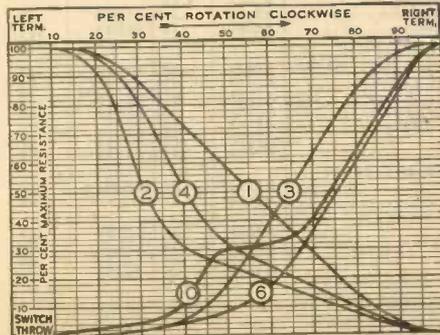
TWIN VOLUME CONTROLS

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. *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 1/2" x 3/4" deep; shaft is 1/4" x 1/4". Well-built controls designed to give exceptionally fine service.

Stock No.	CRL No.	Resistance Front	Resistance Back	Ohms
A2090.*	74-601	10,000	25,000	10,000
A2091.*	74-602	10,000	50,000	50,000
A2092.	4-010-804	500,000	500,000	500,000
A2093.	4-010-805	100,000	100,000	100,000
A2094.	4-010-807	250,000	250,000	250,000

List, \$2.50. NET EACH. **\$1.47**

STANDARD CENTRALAB RESISTANCE TAPER CURVE CHART



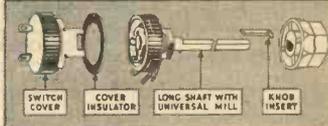
The taper curves illustrated on the left will help you select the proper Centralab Volume Control for use in any type of radio circuit. The numbers shown on each curve correspond to the curve numbers given in the Standard and Midget listings above. Standard applications of each curve are as follows: (1) Voltage divider with uniform resistance change. (Pot.) (2) "C" bias rheostat (L.H.). (3) Antenna and "C" bias of one tube (R.H.). (4) Antenna and "C" bias of two tubes (L.H.). (5) Audio grid, antenna shunt, or tone control (R.H.). (6) Audio grid volume divider with tone compensation tap. Minimum volume at the left and maximum volume at the right. Scale at left indicates percentage of resistance change. Scale at top indicates percentage of clockwise rotation. Refer to this chart when ordering volume controls or ask us for the control you need.

VOLUME CONTROL GUIDE

CRL Master Guide. Features listing of 10,000 different models; set model numbers listed in numerical order; new tone and wave-band switch listing; new Midget Radiohm listing; new Economy P.A. controls; new Adashaft controls, etc. A3099. Master Guide. A2717. New 80 page Control Supplement. Either one or both FREE with CRL Control order. Specify on your order.



STANDARD MIDGET RADIOHM



Bakelite case, 1 1/4" dia. Aluminum shaft is 1/4" dia. x 3/8" long. For use with push-on or set-screw type knob. Knob insert supplied. High-quality all-purpose controls.

Less Switch No.	CRL No.	Max. Res. Ohms	Taper No.	With Switch No.	CRL No.
A3286	NF106	5000	1	A3298	PF106
A3288	NF107	10000	1	A2725	PF107
A3289	NF100	10000	3	A3293	PF100
A3256	NF108	10000	4	A2726	PF108
A3257	N109	10000	6	A2727	P109
A3287	NF110	15000	3	A3299	PF110
A3258	NF111	15000	4	A2728	PF111
A3259	NF112	20000	3	A2729	PF112
A3265	NF113	25000	1	A2730	PF113
A3289	NF101	25000	3	A3294	PF101
A3266	N114	50000	1	A2731	P114
A3267	N115	50000	6	A2732	P115
A3268	N116	100000	1	A2733	P116
A3269	N117	100000	6	A2734	P117
A3290	N102	250000	6	A3295	P102
A3253	N118	500000	1	A2735	P118
A3291	N103	500000	6	A3296	PF103
A3292	N104	1 Meg.	6	A3297	P104

Less Switch. NET EACH. **59c** With Switch. NET EACH. **88c**

TAPPED MIDGET RADIOHMS

A2031	NT119	250000	10	A2035	PT119
A2032	NT120	500000	10	A2036	PT120
A2033	NT121	1 Meg.	10	A2037	PT121
A2034	NT122	2 Meg.	10	A2038	PT122

Less Switch. NET EACH. **88c** With Switch. NET EACH. **\$1.18**

MIDGET SWITCH COVERS

Underwriters' approved Bakelite midget switch cover. *For use with battery radio circuits. Snap-on type for easy attachment.

No.	Type	NET
A2131.	S.P.S.T. (Standard)	29c
A2132.	S.P.D.T.	35c
A2133.	D.P.S.T.	35c
A2134.	S.P.S.T. (Dummy Lug)	35c
A2135.*	*Four Point	35c

EXTENSION SHAFTS



Fig. A. Intended for use with Centralab Volume Controls or switches where longer shaft is needed. Have many uses; keep a stock of all sizes handy for emergencies.

No.	Size	EACH
A2722.	4x1/4x3/8" flat	18.
A2723.	4x1/4x3/8" flat	
A2724.	4x1/4x3/8" flat	

Fig. B. Shaft is 1/4" x 3" long, slotted 3/8" wide, full length. Hinged slot insert is pushed out of shaft and cut to required length. Guide funnel fits over shaft.

A2721. No. K159. NET. **32c**

Fig. C. Soft brass extension shaft 2 1/2" long. For use on newer sets where original controls have split-knurled shafts. Easily cut to required length.

A2720. No. K177. NET. **15c**

CENTRALAB VOLUME CONTROLS

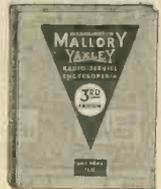


Centralab Volume Controls are nationally known for their quality construction, efficient design, and long-lived quiet operation. The listing below covers the Centralab replacements for the most popular sets. If the control you require is not shown here, refer to the Centralab Volume Control Guide for correct replacement, and order from ALLIED. The CRL Master Guide includes listings of 10,000 different models prior to 1939. The new 1939 80-page supplement lists controls for all newer models. Either or both of these guides will be sent FREE on request with orders for CRL controls. Be sure to ask for these valuable Guides with your next order.

A3099. CRL Master Guide.
A2717. New 80-page Supplement.
 Either of above sent FREE upon request.

MALLORY-YAXLEY VOLUME CONTROLS

The listing below covers the Mallory-Yaxley volume controls recommended as replacements for most popular sets. These controls are widely used by servicemen everywhere and are built to give lasting performance. If the control you require is not listed below, refer to the Mallory-Yaxley Radio Service Encyclopedia for the replacement specified for any set, and order the control needed from ALLIED. The new third edition of the M-Y Encyclopedia lists the volume control requirements for more than 17,000 radios and also includes data on condensers, filters, servicing hints, etc. Every Serviceman needs a copy of this new edition. It will pay for itself in no time at all, in the time and trouble it will save you.



A11869. NET. 75c.

MANUFACTURER and MODEL	CENTRALAB		YAXLEY	
	No.	NET	No.	NET
Allied Radio (See Knight)				
Arvin (Noblitt Sparks)				
41, 417, 467, 518, 518A, 518DW, 528CS, 568, 568A, 568DW, 51, 51B, 608, 8A, 58, 58A, 68, 61, 61B, 61M, 62, 62B, 62M, 81, 81M, 578B, 78, 89, 91, 91A, 508AC-DC	A3069	50.88	A8614	50.59
517, 517B, 527, 527B	A3072	.88	A8624	.59
617, 617B, 627, 627B, 618B, 628B	A3296	.88	A8575	.88
618, 618A, 628, 628CS, 638, 638CS, 818, 828, 828A, 838CS, 848CS, 1237, 1247, 1247A, 927, 1127	A3052	.59	A8640	.59
	A3072	.88	A8624	.59
	A3296	.88	A8575	.88
	A3291	.59	MR48	.59
	A3055	.59	MR53	.59
	A2032	.88		
	A3057	.88		
Atwater Kent				
469C, 538C, 424, 534, 978Q, 956, 37, 38, 40, 42, 52, 41, 43, 44, 45, 55, 55C, 55F, 55FC, 60, 60C (Late), 66	A3052	.59	A8640	.59
55, 55C, 55F, 55FC, 60, 60C (Early), 70, 61DC	A3106*	.88	A9226	.29†
60, 60C, 70 (D & L Chassis), 74 (D & L Chassis), 76 (D & L Chassis), 87D (DC Chassis)	A3101*	1.76	DRP301	1.47
72 (H Chassis)	A3102*	1.76	A9227	.29†
70 & 76 (Q Chassis)	A3105*	1.76	DRP301	1.47
80, 80F, 83, 83F, 90, 90F	A3107*	1.47	DRP302	1.47
165, 217, 246, 275, 310, 667, 448, 555, 708, 82D, 188, 228, 260, 467Q, 266, 612, 627, 808, 812, 89F, 92	A3108*	1.47	DRP303	1.47
67, 67C	A3122*	1.18	A8607	.59
511	A3087	.88	A8640	.59
567, 567F	A3047	.59	A8631	.59
944	A3057	.88	A9206	.88
	A3075	.88	A8607	.59
	A3078	.88	A8622	.59
Belmont				
40 Series, 41, 50 Series, 60 Series, 45, 46, 50C, 620, 400, Midget D, 50F, 42A, 425, 430, 440, 575, 600 Early	A3069	.88	A8615	.59
55B, 71, 110 Series	A3068	.88	A8614	.59
70A, 504, 578	A3081	.88	A8629	.59
274, 306, 500, 517, 582, 602, 691, R1125, 1128	A3078	.88	A8646	.59
	A3055	.59	A8646	.59
	A3297	.88	MR53	.59
	A3295	.88		
	A3034	.59	A8616	.59
306, 401-M Series, B, 522, 523, 587 Series A, 588 Series A, 589, 601 Series A & B, 686 Series A & B, 740, 741, 746 Series A, 786 Series A, 787 Series A, 840, 845 Series A, 848, 849	A3090	.88	A8646	.59
525, 530, 540, 550, 580, 585 Series D, 600 Late, 625, 601B, 650, 660, 670, 670A, 675, 775, 890 Series A, 1178	A3087	.88	A8640	.59
667	A2047	1.18		
750, 1050	A3052	.59	A8640	.59
489, 505, 506, 761, 860, 704, 705 and 706	A3292	.59		
770, 778 Series A, 856, 878 Series A & B, 879, 1170, 1172	A3093	1.18		
788, 888, 889	A2043	.88		
1929 Models	A3296	.88	A8575	.88
	A3043	.59		
Bosch				
58, 62	A3300*	.88	A8602	.59
48, 49 (Late)	A3301*	1.47	A8566	1.47
Brunswick				
10 Midget	A3112*	1.18	A8604	.59
14, 21, 31 Panatrop	A3076	.88	A8604	.59
Crosley Radio				
60S, 61S, 62S	A3043	.59	SRP188	.88
41A, 42, 61, 602, 608, 610, 609, 704, 705 and 706	A3113*	.88	SRP185	.88
AC7, Buddy Chum	A3025	.59	A8531	.59
40S, 41S, 42S (Early Models)	A3114*	.59		
403, 41S, 42S (Later Models)	A3109*	1.47	SRP188	1.47
126	A3110*	.88	SRP264	.88
555, 555S, 666, 5666	A3128*	1.76	DRP304	1.47
22 Batt. 21	A3046	.59	A8586	.59

MANUFACTURER and MODEL	CENTRALAB		YAXLEY	
	No.	NET	No.	NET
Crosley Radio (Cont'd.)				
27, 28, 30, 31, 33, 34, 315, 126-1, 127, 127-1, 150, 55, 54, 57, 58, 400, 410, 420, 55, 91, 92 Auto, 77-1, 122 Super Smoker, 154, 124, 125, 95, 96, 98, 99 Auto Sets, 133, 141, 147, 155, 163, 166, 176, 148, 159, 167, M5-3, 182, 676, 134, 134-1, 175, 182, 146, 157, 158, 164, 170, 171, 168-D, 166, 172, 174, 176, 804, 566, 15-1, 128	A3115*	50.88	SRP188	50.88
	A3051	.59	SRP264	.88
	A3039	.59	SRP263	.88
	A3026	.59	A8594	.59
	A3047	.59	A8631	.59
	A3037	.59	SRP263	.88
	A3027	.59	A8603	.59
	A3070	.88	A8614	.59
	A3215*	1.18	A8608	.59
	A3091	.88	A8649	.59
	A3036	.59	A8608	.59
	A3065	.88	A8608	.59
	A3087	.88	A8646	.59
	A3052	.59	A8649	.59
	A3056	.59	A8649	.59
	A3068	.88	A8606	.59
	A3137*	.88	A8594	.59
	A3302*	1.18		
	A3303*	1.18	A8613	.59
	A3304*	1.18	A9244	1.23
Edison, Inc. and Splitdorf				
C1, C2, R1, R2, SRC3, Rear, C1, C2, R1, R2, SRC3, Front, R4, R5, C4, R12, Abbey Jr., R6, R7	A3117*	.88	SRP277	.88
	A3118*	.88	SRP276	.88
	A3119*	1.47	DRP306	1.47
	A3120*	.88	A9207	.88
Emerson				
DC4, LDC4, LAC4, LAC5, KS, Z133, Z135, Z141, X146, AL-149, ALLW-149, Z150, R152, R153, R156, R158, Z159, Z160, AH-162, AE-163, AL-164, AL-168, ALLW-168, AR-171, AR-173, AR-174, AR-176, AS-179, AR-180, AR-185, A Chassis, AD Chassis, AE Chassis, AH Chassis, AR Chassis, AS Chassis, I Chassis, K Chassis, X Chassis, Z Chassis, R-189, AU-190, C-134, C-136, AJ-137, H-137, C-138, C-139, C-140, C-142, X-146, AJ-149, AF-171, AF-173, AF-176, AF-179, AF-180, AF-185, AJ Chassis, C Chassis, E Chassis, X Chassis, M-134, M-136, M-138, M-139, M-140, M-142, M-146, S-147, M Chassis, F-135, L-135-LW, L-135, F-141, L-141-LW, L-141, L-143, AC-149, AC-168, AM-169, AP-171, AP-173, AP-174, AP-176, AP-180, AP-185, AM-187, AA Chassis, AC Chassis, AM Chassis, AP Chassis, B Chassis, F Chassis, G Chassis, L Chassis, P-117, P-135, D-136, D-136LW, D-135, D-139, D-140, D-139LW, D-139LW, D-140LW, D-142, D-146, D-142LW, D-146LW, S-147, S-151, S Chassis, AG-151, AG Chassis, U154, U Chassis, 250AW, LW, 300, 321, 350AW, LW, 409, 410, 411, 415, 417, BA199, 375, 375-LW, 770 (AW-7), 409, 410, 411, 698, L-755, M-755, S-755, CS, T, TS, A Chassis, K Chassis, K, FS	A3052	.59	MR48	.59
	A3086	.88		
	A3051	.59	MR44	.59
	A3092	1.18		
	A3291	.59	MR48	.59
	A3290	.59	MR44	.59
	A2045	.88	UM154	.73
	A3073	.88	A8622	.59
	A3090	.88	A8646	.59
	A3081	.88	A8628	.59
	A3068	.88	A8617	.59
	A3065	.88		
	A3037	.59	A8618	.59
	A3035	.59	A8615	.59
Eveready (National Carbon)				
1, 2, 3, 50 Series	A3116*	.88	SRP179	.88
	A3159*	1.47	DRP117	1.47
Fada (F.A.D. Andrea)				
122-KE, 41, 42, 44, 46, 47, 81, 84, 48, 49-KW, 51, 53, 57	A3039	.59	A8622	.59
	A3055	.59	A8646	.59
	A3087	.88	A8649	.59
	A3067	.88	A8602	.59

*Exact Duplicate Control.
 †Element only.

NOTE: All YAXLEY Volume Controls listed at 59c are less switch. If control you are replacing requires switch, select proper switch from your M-Y Encyclopedia and order from us.

MANUFACTURER and MODEL	CENTRALAB		YAXLEY		MANUFACTURER and MODEL	CENTRALAB		YAXLEY	
	No.	NET	No.	NET		No.	NET	No.	NET
Fada (F.A.D. Andrea) (Cont'd.)					Majestic (Grigsby-Grunow) (Cont'd.)				
25Z	A3305*	50.88	SRP257	50.88	370, 371, 373	A3239*	51.18	A8622	50.59
10, 10Z, 11, 11Z	A3306*	.88	SRP256	.88	440	A3241*	1.18	A8611	.59
35B	A3307*	1.47	DRP307	1.47	460	A3242*	.88	A8636	.59
General Electric					100B, 102, 103	A3313*	1.47	DRP312	1.47
T41	A3125*	1.47	DRP116	1.47	400, 411, 411A, 413, 413A	A3314*	1.18	A8622	.59
H31, H51, H71	A3029	.59	A8605	.59	490	A3315*	.88	A8636	.59
E-61, E-62, E-68, E-71 E-72					Montgomery Ward (Airline)				
E-76, E-81, E-86, E-91, E-95					1522, 1562, 3035, 3037, 3065, 3067,				
E-101, E-105, E-106	A3145*	1.18	A9213	.88	811, 1711	A3037	.59	A8614	.59
A82, A86, A87	A3126*	1.47	DRP311	1.47	WG-24, 62-3, 62-6, 62-7, 62-8,				
GET12	A3038	.59	A8622	.59	62-9	A3072	.88	A8619	.59
MDO2530, A9, B86	A3043	.59	A8625	.59	62-38, 62-40, 62-50, 62-91, 62-93	A3052	.59	A8640	.59
F86, F74	A3308*	.88	A9245	.88	62-1, 62-2	A3048	.59	A8631	.59
General Motors Radio (Day-Fan)					13, 15, 16, 16X, 17, 18, 18X	A3033	.59	A8614	.59
5066, 5065, 5057, 6DC	A3042	.59	A8626	.59	07A	A3248*	.88		
8AC, 5077, 5080	A3043	.59	A8626	.59	87, 62, 101, 101X	A3087	.88	A8640	.59
A5005, A5020	A3031	.59			77, 62-120	A3249*	.88	A9202	.88
5003, 5004, 5010, 5091, 5048	A3035	.59	A8626	.59	Motorola				
120A, 130, 140	A3216*	1.47	DRP309	1.47	60, 75, 79, 80 Golden Voice	A3208*	1.18	A8569	.88
211-S9A, S98, S38, 200, 201,					50	A3150*	1.18	A8570	1.17
S-1A-216, 217, 219, 250	A3078	.88	A8626	.59	57, 62	A3151*	1.18	A8571	1.17
1001, 160	A3130*	1.47			K-40	A3153*	.88		
S-11-D, 1095, 250	A3078	.88	A8626	.59	Philco				
220-S-10, S-10-B	A3071	.88	A8613	.59*	65, 87, 511	A3223*	.88	A8597	.59
S-2-B, S-3-A, S-3-B, 251	A3067	.88	A8616	.59	1, 2, 3	A3161*	.88	A8614	.59
120	A3309*	1.47			20, 21, 41DC, 70, 70A, 77, 90	A3052	.59		
Goodrich					(2-45's), 470	A3162*	1.47	DRP114	1.47
Mantola, 130, 140, 150	A3312*	1.18			14, 17, 18, 49, 118	A3178*	1.18	A9205	.88
Grunow (General Household Utilities)					16 (Code 125, 126, 127); 17 (Code				
500, 570, 571, 821, 921	A3090	.88	A8646	.59	122); 116B (Code 121)	A3179*	1.18	A9218	.88
501, 520, 530, 550, 560	A3087	.88	A8640	.59	110X (Code 122); 650, 655, 660,				
1101, 9B-2A	A3055	.59	A8648	.59	665	A3179*	1.18	A9213	.88
Chassis, 6A, 6C	A3146*	1.18	A9210	.88	28AC-DC; 45AC-DC	A3180*	1.18	A8568	1.00
4-B, 4-BX, 4-C, Chassis	A3024	.59	A8611	.59	37-10 & 11 (Code 121); 37-116;				
5G, 6-J Chassis, 580, 811, 640,					37-610; 37-620; 37-623; 37-630;				
641, 680, 681	A3144*	1.18	A9204	.88	37-640; 37-650; 37-655; 37-660;				
8D Chassis	A3093	1.18	A9210	.88	37-670, and 37-675 (Codes 121				
11-C, 12A, Chassis, 1171, 1241	A3123*	.88	A9208	.88	& 122)	A3181*	.88	A8572	.88
6-HB, 7-DB Chassis; 620, 621,					37-84 (Code 122), 84, 84B	A3182*	1.18	A8613	.59
720, 721	A3124*	1.18	A8648	.59	111, 111A, 112, 112A, 30, 96	A3163*	.88	A8640	.59
7B, 750	A3100*	1.18	A9246	1.17	51, 52, 48 DC, 51A	A3164*	.88	A8606	.59
8A	A3311*	1.18			71, 47DC	A3165*	.88	A8646	.59
Howard Radio					57, 58, 59	A3168*	1.18	A8622	.59
SG-A, SC-C	A3148*	1.47	DRP244	1.47	95	A3166*	.88	A8640	.59
SGB, H, O, 35AC, 40	A3034	.59	A8615	.59	70 Lary X	A3221*	1.76		
X2, X3, X8, 24	A3087	.88	A8640	.59	60, 66, 261, 264, 265, 505	A3222*	1.18	A8640	.59
Kennedy, Colin B., Corp.					76	A3224*	.88	A8590	.59
Royal 60, 80	A3052	.59	A8640	.59	35, 36 (Batt.)	A3169*	1.47	A8567	1.47
125G, 10, 20, 22	A3152*	1.47	A8565	1.47	FT-6 Ford Car Radio	A3225*	1.18	A8573	1.17
34, 30, 32, 50, 52, 56	A3032	.59	A8613	.59	38, 38A Batt	A3214*	.88	A8622	.59
26, 526, 826, 36, 38, 40	A3129*	1.47	A8566	1.47	80 with switch	A3183*	1.18	A8574	.88
Knight (Ailed Radio Corp.)					81	A3196*	.88	A8574	.88
6/7, 8/9, 9 Tube Super.	A3028	.59	A8603	.59	89 Late	A3197*	.88	A8640	.59
SG8	A3076	.88	A8622	.59	144	A3167*	1.18	A9205	.88
SG9	A3154*	1.76	DRP119	1.47	90 (1-47), 490	A3199*	.88	A9208	.88
SG10	A3155*	1.18	A8629	.59	90 (2-47)	A3200*	.88	A8646	.59
AC5	A3046	.59	A8629	.59	610	A3188*	1.18	A8640	.59
7 Tube Super. (108)	A3069	.88	A8616	.59	626, 625, 630, 635	A3184*	1.18	A9208	.88
9 Tube Super. (114)	A3087	.88	A8640	.59	640, 641, 645, 651	A3186*	1.18	A9208	.88
7 Tube Super. (108), 9 Tube Super.					FT-9 Ford; 816; 817; S1431				
(114), (Tone Cont.)	A3044	.59	A8626	.59	Studebaker	A3187*	.88	SRP282	.88
Kolster Radio (Columbia Phono)					37-62, 37-93, 38-12, 38-14, 38-15				
K21, 23, 24	A3044	.59	A8618	.59	(Codes 121 & 124)	A3296	.88	A8575	.88
K20 to 32, B10, B15, B16, 902, 961	A3042	.59	A8624	.59	38-1, 38-2, 38-4, 38-5, 38-7, 38-8,				
C1, C3, C7, C4, C5, C6, C7, 40-					38-9 (Codes 121, 124), 38-23	A3212*	.88	A8576	.88
60-78, 902, 930	A3055	.59	A8631	.59	38-10 (Code 121)	A3291	.59	MR48	.59
K43, K44, K45	A3157*	1.47	DRP244	1.47	38-60, 38-89 (Code 125)	A3213*	.88	A8577	.88
930 Phono Comb.	A3154*	1.76			901, 902 Philcophone	A3267	.59	MR35	.59
100 Series, 110, K110	A3087	.88	A8640	.59	507	A3227*	1.18	A9203	.88
60 Series, 311-33	A3085	.88	A8605	.59	623 (Batt.)	A3228*	1.18	A8640	.59
70, 80, 90 Series	A3071	.88	A8613	.59	11, AC-236 Studebaker, 700, 800,				
32-34	A3069	.88	A8613	.59	H Hupmobile, J Nash, P Nash,				
Majestic (Grigsby-Grunow)					R Car Radio, R Hupmobile	A3230*	1.18		
70, 70B, 71, 72	A3131*	.88	A8614	.59	808 Car Radio	A3231*	.88	A9211	.88
180, 181	A3132*	1.47	DRP222	1.47	806 Car Radio	A3238*	.88	A9205	.88
80	A3135	.59			19	A3116*	.88	A8578	.88
55, 51, 52	A3133*	1.47	DRP122	1.47	50, 50A	A3174*	1.47	A8567	1.47
55, 56, 57, 58, 150	A3104*	1.18	A8620	.59	10, C; D; E	A3188*	1.47	A8567	1.47
90, 91, 92	A3134*	.88	SRP160	.88	37	A3119*	1.18	A9203	.88
90 Series (Vol.)	A3135*	.88	A8629	.59	32, 15 Early	A3320*	1.47	A8567	1.47
30, 31	A3136*	1.76	DRP122	1.47	611	A3321*	.88	A8578	.88
130A, 131, 132, 133	A3138*	.88	A8594	.59	34, 39	A3322*	1.18	A8578	.88
25 Early, 251, 253, 254	A3139*	1.18	A8610	.59	809, 810	A3323*	1.18	A8579	.94
15, 15B	A3140*	1.18	A8614	.59	TH-1	A3325*	1.18	A8581	1.17
120, 121	A3141*	1.47	A8565	1.47	38-34	A3326*	.88		
60 Series, 160, 163	A3142*	.88	SRP223	.88	38-690	A3327*	.88	A8575	.88
210, 211, 214, 215	A3143*	.88	A8636	.59	39-36, 39-40, 39-45	A3329*	.88	A8576	.88
25B, 251B, 253B, 254B, 35, 351,					39-55, 39-116	A3330*	1.18		
353	A3226*	1.18	A8609	.59	811-P, 811-PB, 811-PV	A3324*	.88	SRP282	.88
111 Auto 1st Type	A3232*	1.18	A8636	.59	926, 927, 928K	A3332*	1.18		
66 Auto	A3233*	.88	SRP251	.88	N 1524 (Nash)	A3333*	.88		
118 Ford Auto	A3234*	1.18	A8607	.88	S 1526 (Studebaker)	A3334*	.88	SRP291	.88
20, 21, 22, 23	A3235*	.88	A8640	.59	G 1528 (Graham)	A3335*	.88	SRP290	.88
200, 201, 203, 204 Special	A3236*	.88	A8636	.59	P 1530 (Packard)				
220, 221, 223	A3237*	.88	A8636	.59	P1535 (Packard) L1560 (Lincoln				
200, 300, 310, 320 Series, 77					Zephyr)	A3336*	.88	SRP282	.88

*Exact Duplicate Control.

†Element only.

SEE NEXT PAGE FOR ADDITIONAL CENTRALAB AND YAXLEY VOLUME CONTROLS.

MANUFACTURER and MODEL	CENTRALAB		YAXLEY		MANUFACTURER and MODEL	CENTRALAB		YAXLEY	
	No.	NET	No.	NET		No.	NET	No.	NET
Philco (Cont'd.)									
FI540 (Ford)	A3337*	\$1.18	A8582*	\$1.18	Stewart-Warner Corp. (Cont'd.)				
C-150 (Chrysler)	A3338*	.88	SRP290	.88	R-104-A, B, E, 106, 111AC, DC, 109 Series, R111, R116	A3087	\$0.88	A8578	\$0.88
PT-14 (Packard) CT-10, CT-11, C-1450	A3339*	.88	SRP282	.88	110, A and E	A3087	.88		
					R120	A3052	.59	A8640	.59
					101, 102-A-B-E	A3032	.59	A8609	.59
					105 Series	A3044	.59	A8628	.59
R.C.A. Victor					Temple				
ST, C-6-8, C-6-2, 6-T-2, 6K and 6K2 series; 8K and T series; T-8-14 and 18 series; C, D and T9 series, 5-T-1, 5-T-4, 5-T-5, 5-T-6, 5-T-7, 5-T-8, 6-K-3, 6-K-10, 6-T-8, 7-K-1, 7-T-1, 7-U-2, 7-Y, 8-T-2, 8-T-11, 8-K-11, 8-U, 8-U-2, 811-K, 9K and T series; 10K and T series; C11 series and C13-2	A3204*	.88	A9213	.88	Batt. Set.	A3052	.59		
AVR-1, 9 Tube AW; 121, 2, 7 series; 140 series; 220 series; 240; 320 and 340 series.	A3205*	.88	A9221	.88	8-60, 8-80, 8-90	A3031	.59	A8606	.59
C-15-3, C-15-4, D-22-1, 281	A3206*	.88	A9203	.88	8-61, 8-81, 8-91	A3185*	1.47	DRP240	1.47
Radiola, 17, 18, 33, 41, 41DC	A3035	.59	SRP145	.88	AC80	A3034	.59		
R15, RE17, R42, R48	A3125*	1.47	DRP116	1.47	150, 110, 119	A3065	.88		
R32, RE45, R52, 145	A3170*	1.47	DRP115	1.47	170	A3061	.88		
R35, RP9, RE57, RE73, R14, 42, 80, 82, 86	A3171*	1.47	DRP250	1.47	Transformer Corp. (Clarion)				
M30, 142-B, 241-B (Batt.)	A3029	.59	A8605	.59	51, 55, 55, 60, Jr.	A3074	.88	A9049	.94
21, 22	A3043	.59	A8625	.59	70, 61, 85	A3037	.59	A8618	.59
44, 46	A3172*	.59	A8626	.59	40, 100, G102	A3124*	1.18	A8604	.59
60, 62	A3028	.59	SRP142	.88	90 Series, 94, 25-94	A3060	.88	A8591	.59
R17M, R18W, R27	A3025	.59	SRP138	.88	G120	A3034	.59	A8616	.59
RE20, R72, R71, R74, R76, R77	A3085	.88	A8638	.59	G1349, 160, 25-160	A3061	.88	A8594	.59
R8, R10, R11, R12, R21, R26, R27, R28, R29	A3044	.59	A8626	.59	241, 240, 25-240, 360, 25-260, AC-280, 25-280, 480	A3052	.59	A8644	.59
RC78A, RA84	A3219*	.88	SRP153	.88	AC20, 450	A3087	.59	A8615	.59
R37, R38P, R20, 124, 223, 330, 331, R32	A3220*	.88	A9201	.88	320	A3033	.59	A8616	.59
R70	A3201*	.88	A9207	.88	422, 423, 425, 440	A3073	.88	A8624	.59
RC4, R6, RE16A	A3170*	1.47	DRP115	1.47	United Motors Service, Inc. (Delco)				
R22, 112-220 AC-DC, 114	A3024	.59	A8610	.59	626, 642	A2044	.88	A9105	.88
RE40-P, R28-P, 110, 111, 115, 210, 310	A3030	.59	SRP134	.88	627, 628, 629, 630, 631, 632, 633	A2045	.88	A9106	.88
RE80	A3065	.88	A8605	.59	631-A, 640, 641, 643	A2043	.88	A9107	.88
HF-1, 86T4, 86T44, 98K, 810T4, 910K, U126, U128, 911K, 99K, 99T	A3063	.88	A9019	.88	4036 (B.O.P.), 4037, 4038	A2048	1.18	A9108	.94
HF-2, HF-4, U105, U107, U130	A3034	.59	A8612	.59	980534, 980535 (Buick)	A2051*	1.18	A9109*	1.18
8M, 9M1	A3016	.88	A9013	.88	982044, 982045 (Oldsmobile), 983526, 983527 (Pontiac)	A2052*	.88	A9117	.88
85 BT6, 94 BT6, 91M2, 91M3, 9X	A3009	1.18	A9014	1.17	U. S. Radio & Television (Apex)				
86T6	A3087	.88	A8575	.88	Battery Models	A3054	.59		
94BK, 94BT	A3079	.88	A8580	.88	Gloritone 31 Series	A3069	.88	A9232	.88
94X1, 94X2	A3059	.88	A9015	.88	Panatrope 70, Radiatrope, Case				
95X, 95X1, 95X1L	A3341*	.94	A9016	.94	8-80, Heritage	A3035	.59	A8614	.59
96E, 96T, 96T1, 96T2, 97X	A3342*	1.76	A9017*	1.76	36, 37	A3031	.59	A8601	.59
96K, 96K2, 96T3, 97E, 97K, 97T, 97Y, 98EY, 98K, 98YG, U119	A3296	.94	A8247	.88	Midjet 27 Series	A3072	.88	A8614	.59
	A3345*	1.76	A9249*	1.76	28 Series, 41, 42, 43, 44, 46, 47, 48	A3025	.59	A8591	.59
	A3346*	.88			49, Midjet 32	A3036	.59	A8614	.59
	A3058	.88	A9048	.88	26B, 26L, 20	A3033	.59	A8615	.59
	A3347*	.88	A9045	.88	8, 10 Series	A3055	.59	A8646	.59
	A3064	.88	A8607	.59	1010	A3087	.88	A8640	.59
	A3078	.88	A9018	.88	Wells-Gardner (Gulbransen)				
	A3209	1.18	A9043	.88	WG24, 291, CG, 9-in-Line, Club Late	A3147*	1.47	DRP241	1.47
	A3202*	.88	A9203	.88	40A, 23 Series, 062 Auto.	A3118	1.47	A8618	.88
	A3203*	1.18	A9044	1.17	WG5, 5 Tube A.C., 05A, 05AA	A3037	.59	SRP271	.88
	A3173*	1.18	A9045	1.17	O6Z, O6W, Y6Z	A3052	.59	A8640	.59
	A2043	.88	A9046	.88	17A, Tone Control	A3071	.88	A8618	.59
	A2045	.88	A9047	.88	O6, 5 Series	A3087	.88	A8640	.59
	A3295	.88	A9048	.88	2-C, 2-CM, OD, ODM	A3248*	.88	A9202	.88
					7-G, 7-GM Series, 7K Series	A3249*	.88	DRP315	1.47
					37-G-508, 37-G-566 Series	A3240*	1.76		
					6-F, R-F Series				
					6-N Series, 6-R	A3243*	1.76	A9119	1.96
					80-A Tube	A3244*	1.76		
					6-U Auto. Series	A3245*	1.18	A8546	1.17
					2-C, O7A	A3246*	1.47	A8565	1.47
					O92 (1933)	A3247*	1.18	A8547*	.59
					05A, 5B	A3090	.88	A8548	.59
					10, 13 Series	A3052	.59	A8640	.59
						A3068	.88	A9232	.88
						A3032	.59		
Sears Roebuck					Zenith Radio Corp.				
1390, 1400, 1402, 1404, 1406, 1580, 1582, 1584, 1590, 1592	A3072	.88	A8618	.59	1928 All Models, 60, 61, 62, 64, 67, 602, 613, 642, 672	A3082	.88	SRP261	.88
1704, 7070-1-2-3-4, 1706, 7075-8-7-8, 7091-2-3-4	A3087	.88	A8578	.88	563	A3078	.88	SRP261	.88
1708-9, 1750	A3052	.59	A8578	.88	70 Series, 50, 60, 70, 71, 72, 73, 77	A3191*	1.76	SRP261	.88
1715, 1721, 1721X, 1722, 1722X, 1726X, 1732, 1732X	A3156*	1.47	DRP317	1.47	"Zenette" 14, CH, RH, 3A	A3069	.88	A8549	1.17
1705	A3158*	1.76			70 Series, 50, 60, 70, 71, 72, 73, 77	A3118	1.76	DRP221	1.47
Simplex					2009L, CP, 60, 70, 71, 72, 73, 77	A3034	.88	A8614	.59
H, AC, J	A3063	.88	A9019	.88	80	A3043	.59	SRP261	.88
K, R above serial 320001	A3069	.88	A8614	.59	230, 240, 245	A3087	.88	A8640	.59
P, W (All-Wave)	A3087	.88	A8578	.88	2021, 2022, 2024, 2047, 2018, 250	A3069	.88	A8612	.59
P, Batt.	A3032	.59	A8613	.59	2014	A3086	.88		
U, V (AC-DC), RK, RKE	A3082	.88	A8632	.59	6-B-107, 6-B-129, 6-B-164, 6-S-128, 6-S-137, 6-S-147, 6-S-152, 6-S-157	A3193*	1.18	A9213	.88
Spartan					6-M-90-S, 6-M-90-D, 6-M-91-S, 6-M-91-D, 7-M-91-S, 7-M-91-D	A3189*	1.18	A8564	1.17
61, 62, 72, 78	A3086	.88	A9043	.88	5619	A3190*	1.18	A9043	.88
111A, 564, 570, 574, 600, 610, 620, 737, 740, 870	A3054	.59	SRP154	.88	980, 985, 990, 1201, 1201-A, 9-S-30, 9-S-54, 9-S-55, 12-L-57, 16-A-61, 16-A-63, Stratosphere	A3194*	1.18	A9206	.88
69, 79A, 101, 109, 110AC, 301, 591, 593, 930, 931	A3217*	.88	SRP258	.88	4-F-133 (5407), 5-F-133, 5-F-166 (5518), 5-F-233, 5-F-251 (5522)	A3195*	1.18	A9233	1.17
31, 233 DC	A3218*	.88	SRP154	.88	5-S-119, 5-S-126, 5-S-127, 5-S-150, 5-S-151, 5-S-161 (5516), 6-S-203, 6-S-222, 6-S-223, 6-S-229	A3292	.59	A9234	.94
410, 420, AC-DC, 430 (Dual)	A3056	.59	A9002	.59	5-M-191 (5320), 6-M-192 (5637)	A3296	.88	A8578	.88
5 and 9	A3174*	1.76	SRP258	.88	6-S-254, 6-S-256 (5644), 7-S-204	A3297	.88	A8243	.94
	A3069	.88	DRP246	1.47	7-J-232, 7-J-259 (5711), 9-S-204, 9-S-232, 9-S-242, 9-S-244	A2038	1.18	A9233	1.17
Stewart-Warner Corp.					15-U-246, 15-U-269, 15-U-270	A2034	.88	A9233	1.17
900 Series	A3176*	.88	A8618	.59		A3175*	.88	A9221	.88
R100 Series, 950, 935	A3177*	.88	SRP245	.88					
811	A3046	.59	A8613	.59					
790AC, 980	A3129*	1.47							
305, 315, 320	A3025	.59							
363	A3031	.59							

*Exact Duplicate Control.

†Element only.



KNIGHT Carbon Resistors

RESISTOR ASSORTMENT AND BASSWOOD CABINET



CONTAINS
100 POPULAR
1 WATT
RESISTORS

A handy Basswood 6 drawer cabinet with a carefully selected assortment of 100 Knight 1 watt insulated carbon resistors. Ideal also for condensers, washers, etc. Each drawer has 3 removable partitions. Bottom drawer for larger

items. Varnished in natural wood finish. Size: 8 3/4" x 6 1/4" x 5 3/8". Shpg. wt. 5 1/4 lbs.

CONTAINS THE FOLLOWING UNITS:

Ohms	Ohms	Ohms	Ohms
300 (2)	2000 (4)	20000 (4)	100000 (8)
400 (4)	2500 (2)	25000 (8)	200000 (2)
500 (4)	3000 (2)	30000 (2)	250000 (8)
600 (2)	5000 (4)	40000 (2)	500000 (8)
1000 (4)	10000 (8)	50000 (8)	1 meg. (4)
1500 (2)	15000 (4)	75000 (2)	2 meg. (2)

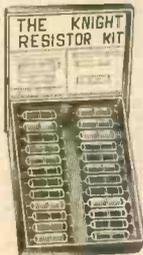
NOTE: Figure in bracket indicates quantity.

A8550. The attractive Basswood 6 drawer cabinet, as illustrated, complete with 100 Knight 1 watt resistors and handy color-code guide. **\$5.10**

A8551. Cabinet only. **\$1.59**

FREE! The above basswood cabinet will be given to you free with an order for any 200 Knight Carbon resistors you select.

SAVE MONEY! BUY THESE KNIGHT RESISTOR KITS



24 POPULAR
VALUES PER KIT

Highest quality Knight Insulated Carbon Resistors packed in handy kits of 24 units of most 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:

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
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 Carbon Insulated Resistors in 1 watt size.

A8555. **\$1.17**

1/2 WATT KIT

Consists of one each of the above Knight Insulated Carbon Resistors in 1/2 watt size.

A8556. **95c**

1/4 WATT KIT

Handy assortment consisting of one each of the above Knight Carbon Insulated Resistors in 1/4 watt size.

A8557. **85c**



RMA COLOR-CODE GUIDE

A handy pocket-size guide with rotary discs. Shows body, end, and dot colors of resistors according to RMA color-code. Gives resistance value quickly.

A5130. **9c**

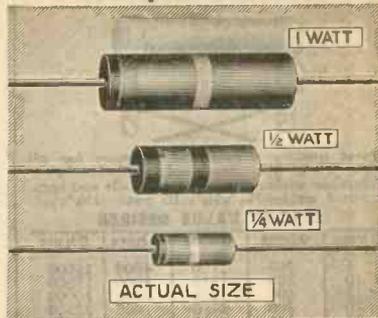
FREE with order for 24 resistors

KNIGHT INSULATED CARBON RESISTORS

HIGHEST QUALITY ASSURED ACCURACY

- Solid Molded—Rugged—Reliable
- Average Tolerance Close to 5%
- Always Quiet in Operation
- Completely Moisture-Proof Units
- 1000 Volt Overall Insulation
- Maintain Their Permanent Value
- Non-Inductive—No Capacity Effect

The finest carbon insulated resistors you can buy. Use these highest quality units with utmost confidence in any R.F. or Audio circuit. **KNIGHT** Carbon Insulated Resistors are of solid molded construction, permanently bonded, 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** Carbon Insulated Resistor is held within 10% (average close to 5%). The 1000 volt overall insulation permits resistors to touch without shorting. Save and profit by using **KNIGHT** Carbon Insulated Resistors. Note: The 1/4, 1/2, and 1 watt resistors are the insulated type. The 2 watt resistor is the conventional uninsulated type.



Resist. ohms	1/4 WATT No.	1/2 WATT No.	1 WATT No.	2 WATT No.	Resist. ohms	1/4 WATT No.	1/2 WATT No.	1 WATT No.	2 WATT No.
50	A8100	A8200	A8300	A8500	15000	A8123	A8223	A8323	A8523
100	A8101	A8201	A8301	A8501	20000	A8124	A8224	A8324	A8524
150	A8102	A8202	A8302	A8502	25000	A8125	A8225	A8325	A8525
200	A8103	A8203	A8303	A8503	30000	A8126	A8226	A8326	A8526
250	A8104	A8204	A8304	A8504	35000	A8127	A8227	A8327	A8527
300	A8105	A8205	A8305	A8505	40000	A8128	A8228	A8328	A8528
400	A8106	A8206	A8306	A8506	50000	A8129	A8229	A8329	A8529
500	A8107	A8207	A8307	A8507	60000	A8130	A8230	A8330	A8530
600	A8108	A8208	A8308	A8508	75000	A8131	A8231	A8331	A8531
750	A8109	A8209	A8309	A8509	100000	A8132	A8232	A8332	A8532
1000	A8110	A8210	A8310	A8510	125000	A8133	A8233	A8333	A8533
1250	A8111	A8211	A8311	A8511	150000	A8134	A8234	A8334	A8534
1500	A8112	A8212	A8312	A8512	200000	A8135	A8235	A8335	A8535
1750	A8113	A8213	A8313	A8513	250000	A8136	A8236	A8336	A8536
2000	A8114	A8214	A8314	A8514	300000	A8137	A8237	A8337	A8537
2500	A8115	A8215	A8315	A8515	400000	A8138	A8238	A8338	A8538
3000	A8116	A8216	A8316	A8516	500000	A8139	A8239	A8339	A8539
4000	A8117	A8217	A8317	A8517	1 meg.	A8140	A8240	A8340	A8540
5000	A8118	A8218	A8318	A8518	2 meg.	A8141	A8241	A8341	A8541
6000	A8119	A8219	A8319	A8519	3 meg.	A8142	A8242	A8342	A8542
7500	A8120	A8220	A8320	A8520	4 meg.	A8143	A8243	A8343	A8543
10000	A8121	A8221	A8321	A8521	5 meg.	A8144	A8244	A8344	A8544
12500	A8122	A8222	A8322	A8522	10 meg.	A8145	A8245	A8345	A8545

1/4 WATT Net Each.....	4c	1/2 WATT Net Each.....	5c	1 WATT Net Each.....	6c	2 WATT Net Each.....	10c
Per Doz.....	40c	Per Doz.....	45c	Per Doz.....	56c	Per Doz.....	99c
Per 100.....	\$3.25	Per 100.....	\$3.75	Per 100.....	\$4.60	Per 50.....	\$9.95



WIRE-WOUND RESISTORS

Wire-wound on a bakelite strip with solder lugs at each end. 1/4 watt rating. *Insert in series with cathodes of 25Z5 and B+ to prevent condenser breakdown due to surges.

No.	Ohms	No.	Ohms	No.	Ohms
A9075	1	A9082	15	A9089	200
A9078	2	A9085	20	A9090	400
A9077	3	A9084	25	A9091	500
A9078	4	A9085	30	A9092	600
A9079	6	A9086	40	A9093	700
A9080	8	A9087*	50	A9094	900
A9081	10	A9088	50	A9095	1000

10 FOR 6c. NET EACH..... 7c



CENTER-TAPPED RESISTORS

May be used in any filament or hum balancing circuit. Wire-wound on flexible fibre strip.

No.	Ohms	No.	Ohms	No.	Ohms
A9096	6	A9099	20	A9102	100
A9097	10	A9100	40	A9103	200
A9098	15	A9101	60	A9104	400

10 FOR 7c. NET EACH..... 8c

HANDY KNIGHT RESISTOR KITS

An asset in shop or on service calls. Each kit is an assortment of the 12 most popular values of **KNIGHT** quality carbon insulated resistors. RMA color-coded. Mounted on convenient sturdy strip. Free RMA Color-Code chart with each kit. A valuable and handy group of kits. Keep them on hand for all repair emergencies.

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.

1/2 WATT KITS

A8560. Consists of one each of the above from 200 to 15,000 ohms.

A8561. Consists of one each of the above from 20,000 ohms to 2 meg. **45c**

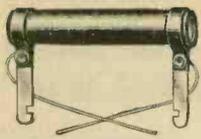
1 WATT KITS

A8562. Consists of one each of the above from 200 to 15,000 ohms.

A8563. Consists of one each of the above from 20,000 ohms to 2 meg. **56c**

Finest Quality RESISTORS

KNIGHT WIRE-WOUND LONG-LIFE RESISTORS



Finest quality wire-wound resistors for all radio work. Moisture-proof, triple-insulated. Tolerance within 2%. With pig-tails and lugs. Sizes: 5 watt— $1\frac{1}{4} \times \frac{3}{16}$ "; 10 watt— $1\frac{1}{4} \times \frac{3}{16}$ ".

SPECIFY VALUE DESIRED

Ohms	Ohms	Ohms	Ohms
5	200	1100	4000
10	250	1250	5000
15	400	1500	6000
20	500	1750	7000
25	600	2000	8000
50	750	2250	9000
75	800	2500	10000
100	900	2750	12500
150	1000	3000	15000

5 WATT SIZE

A4340. In all values except those marked *. Specify values when ordering. 10 FOR \$1.50. NET EACH..... 16c

10 WATT SIZE

A4341. Available in all values listed. Specify values when ordering. 10 FOR \$1.80. NET EACH..... 20c

CANDOHMETER RESISTANCE INDICATOR



Accurately calibrated dual-range resistance indicator. Quickly and accurately determines the value necessary for replacing any burned-out or defective resistor. Sliding test prod moves freely in exposed slot. With leads, prod. and clips. A6599. 0-10,000; 0-100,000 Ohms. Shpg. wt., 1 lb. NET..... \$1.18

MUTER CANDOHM RESISTORS

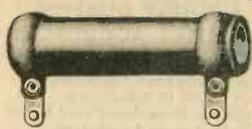


Exact duplicates of the original resistors listed below. To order any unit not listed, send deposit and give all numbers on original part; also make, model, and tube line-up of set.

No.	Fact. No.	Ohms	NET
American Bosch			
A6535	9523	300	\$0.29
Clarion (Trans. Corp.)			
A6537	4268	15580	.71
A6533	4269	19200	.68
A6546	4512	19085	.59
Crosley			
A6529	20452B	4295	.68
A6530	20909	10000	.49
A6531	21955	6500	.49
A6532	21956	3160	.29
A6536	28471	33500	.39
A6533	32301	25000	.50
Majestic			
A6543	10145	21702	.68
A6544	10252	10000	.29
Simplex			
A6534	"C" Type	31300	.82
U. S. Radio & Tel.			
A6538	1752	22600	1.65
A6550	1959	23800	1.56
A6552	2303	3640	.39
A6548	3360	24300	.88
A6549	3622	4300	.49
A6539	4145	20900	.59
A6540	5905	4390	.29
A6541	27416	32272	.71
A6542	27992	45	.21
Wells-Gardner			
A6545	98037	10000	.59
Zenith			
A6547	63-351	17035	.59

If you are not able to identify model of set or Candohm number, send us the original part with deposit. Shipment will be made promptly since we are in close touch with the factory here in Chicago.

KNIGHT VITREOUS ENAMELED RESISTORS



Double-coated vitreous enamel resistors perfectly protected against corrosion. Finest alloy wire wound on rugged porcelain core. Have secure lug and terminal contacts. Dissipate heat quickly; maintain constant values even when hot. Mechanically and electrically among the finest units made.

SPECIFY VALUE DESIRED

Ohms	Ohms	Ohms	Ohms	Ohms
1*	40*	400	2500	20000
2*	50	500	3000	25000
5	75	750	4000	30000
10	100	1000	5000	40000
15*	150*	1250	7500	50000
20*	175	1500	10000	75000†
25	200	2000	15000	100000†
30*	250			

10 WATT SIZE. $1\frac{1}{4} \times \frac{3}{16}$ ".

A4342. In all values except those marked †. Specify values when ordering. 10 FOR \$1.50. NET EACH..... 16c

20 WATT SIZE. $2 \times 9/16$ ".

Available in all values except those marked *. Specify values when ordering. A4343. Values 5 to 40,000 ohms. Specify values desired. 10 FOR \$2.85. NET EACH..... 32c

A4344. Values 50,000 to 100,000 ohms. Specify values desired. 10 FOR \$3.30. NET EACH..... 37c

50 WATT SIZE

Similar in construction details to resistors above. Size: $4\frac{1}{2} \times 1\frac{3}{16}$ ". Supplied with mounting brackets, $3/8$ " mounting centers. Have soldering lug terminals.

Ohms	No.	NET	Ohms	No.	NET
50	A4460		5000	A4469	\$0.54
100	A4461		7500	A4470	.61
250	A4462		10000	A4471	.61
500	A4463	54c	15000	A4472	.61
750	A4464		20000	A4473	.61
1000	A4465		25000	A4474	.61
1500	A4466		50000	A4475	.70
2500	A4467		75000	A4476	.70
4000	A4468		100000	A4477	.70

MUTER 5 WATT WIRE-WOUND "ZIPOHMS"



Flat, wire-wound resistors to replace overloaded carbon units. Impregnated with protective high-temperature cement; non-porous. Noiseless, thoroughly insulated, and accurate within 5%. Each unit is marked with value.

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			

A6748. 5 WATT. Size, $1\frac{1}{2} \times \frac{1}{4}$ " except units rated 12,500 to 25,000 ohms which are $2 \times \frac{1}{4}$ ". With $1\frac{1}{2}$ " tinned leads. NET EACH..... 15c

EAGLE PLUNGER LEAK



Adjustable grid leak with a range from 0 to 50 megohms. Standard mounting. Easily adjusted to all requirements. A3974. YOUR PRICE..... 25c

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. For use in power packs, as replacements, etc. Slot is provided for sliding contact. Supplied complete with one slider and mounting brackets. Stock and use Knight resistors—the finest wire-wound resistors you can buy today.

Ohms	10 WATT Size, $1\frac{1}{4} \times \frac{3}{16}$ "		25 WATT Size, $2 \times \frac{3}{16}$ "	
	No.	NET	No.	NET
1	A4200		A4240	
2	A4201			
3	A4202		A4241	
4	A4203		A4242	
7.5	A4204			
10	A4205		A4243	
15	A4206		A4244	
20	A4207			
25	A4208		A4245	
50	A4209		A4246	
75	A4210		A4247	
100	A4211		A4248	
150	A4212		A4249	
200	A4213		A4250	
250	A4214		A4251	
300	A4215			
400	A4216			
500	A4217		A4252	
600	A4218			
750	A4219			
800			A4253	
1000	A4220		A4254	
1250	A4221		A4256	
1500	A4222		A4257	
2000	A4223		A4258	
2500	A4224		A4259	
3000	A4225		A4260	
3500	A4226		A4261	
4000	A4227		A4262	
5000	A4228		A4263	
6000			A4264	
7500	A4229		A4265	
8000	A4230			
8500	A4231			
9000	A4232			
10000	A4233		A4266	
			A4267	
			A4268	
			A4269	
			A4270	

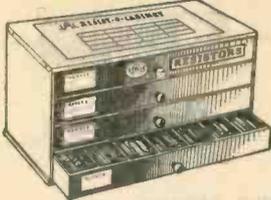
A4345. Extra Lug for Knight 10 W Units 5c
A4346. Extra Lug for Knight 25 W Units 5c

Ohms	50 WATT Size, $4 \times \frac{3}{4}$ "		80 WATT Size, $6 \times \frac{3}{4}$ "	
	No.	NET	No.	NET
5	A4275		A4310	
10	A4276		A4311	
15			A4312	
25	A4277		A4313	
50	A4278		A4314	
75	A4279			
100	A4280		A4315	
150	A4281			
200	A4282			
250	A4283		A4316	
300			A4317	
400	A4284			
500	A4285		A4318	
750	A4286		A4319	
800	A4287			
1000	A4288		A4320	
1500	A4289		A4321	
2000	A4290		A4322	
2500	A4291		A4323	
3000	A4292			
4000	A4293		A4324	
5000	A4294		A4325	
7500	A4295		A4326	
8000	A4296			
10000	A4297		A4327	
12000	A4298			
15000	A4299		A4328	
20000	A4300		A4329	
25000	A4301		A4330	
30000	A4302		A4331	
35000			A4332	
40000	A4303		A4333	
45000			A4334	
50000	A4304		A4335	
60000	A4305		A4336	
80000	A4306		A4337	
100000	A4307		A4338	

A4347. Extra Lug for 50 and 80 W Units 5c
NOTE: For 100 and 200 watt adjustable wire-wound resistors see listings on page 157.

IRC RESISTORS

RESIST-O-CABINET



FREE — WITH PURCHASE OF POPULAR ASSORTMENTS

A new, sturdily-built, all-metal cabinet convenient for storing resistors or other small parts. Has four large drawers with separate compartments and stock labels on front. Size: 11" long, 5 1/2" high, 5 1/2" deep. Silver and blue finish. FREE with order for any of balanced resistor assortments listed below.

RESISTOR ASSORTMENT No. 1

A balanced resistor assortment for efficient servicing of all types of sets. Contains resistors as follows: BT-1/2, 1/2 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. .15 and 2 megs.; 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; ABA 10 Watt adjustable, 1 each: 1000, 2500, 5000, and 10000 ohms. Shpg. wt., 7 lbs.

A5718. Complete with above cabinet. NET. **\$8.91**

RESISTOR ASSORTMENT No. 2

Contains 100 Type BT-1/2, 1/2 Watt Insulated Metallized Resistors in the most popular ranges. Ideal for 1/4, 1/2, or 1 watt midjet set replacements, for meter work, precision equipment, television, etc. Units range from 50 ohms to 2.0 meg., in an assortment based on most frequent servicing requirements. This assortment is a real buy at the price—it's an outstanding value with the Resist-O-Cabinet supplied Free.

A5716. Complete with above cabinet. NET. **\$9.80**

RESISTOR ASSORTMENT No. 3

Contains 83 Type BT-1, 1 Watt Insulated Metallized Resistors in a balanced assortment ranging from 50 ohms to 2.0 meg. Ideal for all servicing requirements as standard replacements in radio sets; also widely used as meter multipliers, in precision laboratory equipment, etc. Anyone doing radio work has frequent need for all the units in this assortment.

A5717. Complete with above cabinet. NET. **\$9.76**

IRC 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"x3/8" dia. Others have knurled nuts; size: 2 1/8"x7/8" dia. Available in odd sizes on special order at cost of next higher value.

No.	Ohms	NET	No.	Ohms	NET
A4805	1	50c	A4825	40000	\$0.79
A4807	10		A4826	50000	.79
A4808	25		A4827	60000	.94
A4809	50		A4828	75000	.94
A4810	100		A4829	100000	1.09
A4812	200	53c	A4830	125000	1.23
A4806	250		A4831	150000	1.38
A4813	500		A4832	175000	1.38
A4814	1000		A4833	200000	1.38
A4845	1500		A4834	225000	1.53
A4809	2000		A4835	250000	1.53
A4815	2500		A4836	300000	1.68
A4847	4000		A4837	400000	1.76
A4816	5000		A4838	500000	2.00
A4817	7500		A4844	600000	2.50
A4818	10000	A4839	750000	2.85	
A4819	12500	65c	A4840	1 Meg.	3.09
A4820	15000		A4841	1.5 Meg.	4.41
A4821	20000		A4842	2 Meg.	5.88
A4822	25000		A4843	2.5 Meg.	7.35
A4823	30000				

TYPE "BT" INSULATED METALLIZED RESISTORS

- Crack-proof, Trouble-free
- Completely Moisture-Sealed
- High Voltage Insulation

Improved new design makes these resistors outstanding in every way. High voltage insulating material eliminates danger of grounding. Quiet performance facilitates use in AVC circuits, high-gain amplifiers, etc. Each unit is color-coded and marked with resistance value. Accuracy is ± 10%. (Illustrations at right are actual size of resistor units.)



STANDARD STOCK RANGES

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
0.5	30	350	2000	8000	25000	125000	1.5 meg.
1	40	400	2250	9000	30000	150000	2 meg.
2	50	450	2500	10000	35000	200000	3 meg.
3	75	500	3000	11000	40000	250000	4 meg.
5	100	600	3500	12000	50000	300000	5 meg.
7.5	120	750	4000	12500	60000	400000	6 meg.
10	150	800	5000	15000	65000	500000	7 meg.
15	200	1000	6000	17500	70000	600000	10 meg.
20	250	1250	7000	20000	75000	750000	20 meg.
25	300	1500	7500	22500	100000	1 meg.	

TYPE BT-1/2 — 1/2 WATT

A5705. Available in all ranges from 50 ohms to 20 megohms. (Below 50 ohms use BW-1/2 units below.) 3/4" long, 3/8" dia. Specify values when ordering. List. Each, 17c. NET EACH. **10c**

TYPE BT-1 — 1 WATT

A5706. Available in all ranges from 150 ohms to 20 megohms. (Below 150 ohms use BW-1 units below.) Size, 1 1/4"x3/4". Specify values when ordering. List. Each, 20c. NET EACH. **12c**

TYPE BT-2 — 2 WATT

A5707. Available in all ranges from 200 ohms to 20 megohms. (Below 200 ohms use BW-2 resistors listed below.) Size, 1 1/4"x3/4". Specify values when ordering. List. Each, 30c. NET EACH. **18c**

TYPE "BW" INSULATED WIRE-WOUND RESISTORS

New type insulated, wire-wound resistors. Ideal for use with meters, as cathode bias resistors; for air-cell batteries; or as center-tapped resistors when hooked in series. Specify values when ordering.



TYPE BW-1/2 — 1/2 WATT

A5708. Available in all ranges from 0.5 to 750 ohms, in standard stock ranges shown above. Size, 3/4"x3/8". List, 17c. NET EACH. **10c**

TYPE BW-1 — 1 WATT

A5709. Available in all ranges from 1 to 4000 ohms, in standard stock ranges shown above. Size, 1 1/4"x3/4". List, 20c. NET EACH. **12c**

TYPE BW-2 — 2 WATT

A5710. Available in all ranges from 1 to 7000 ohms, in standard stock ranges shown above. Size, 1 1/4"x3/4". List, 30c. NET EACH. **18c**

TYPE "F" METALLIZED RESISTORS

Quiet, metallized type resistors for use in critical circuits. Absolutely dependable famous IRC quality. Standard with leading manufacturers. Order resistors desired from list of standard stock ranges above, specifying resistance and giving stock number shown under each type.



TYPE F-1/2 — 1/2 WATT

A5700. F-1/2, 1/2 Watt. 1 1/2" long, in all ranges from 50 ohms to 10 meg. List, 17c. NET EACH. **10c**

TYPE F-1 — 1 WATT

A5701. F-1, 1 Watt. 1 3/4" long. In all ranges from 100 ohms to 10 meg. List, 20c. NET EACH. **12c**

TYPE F-2 — 2 WATT

A5702. F-2, 2 Watt. 1 3/4" long. In all ranges from 50 ohms to 10 meg. List, 30c. NET EACH. **18c**

POWER WIRE-WOUND RESISTORS

Finest resistance wire is evenly spaced on non-hygroscopic ceramic core. Durable cement coating provides protection against extreme heat and humidity. With tinned wire leads. Actual tests prove these units superior for mechanical strength, load capacity, etc. Conform to N.E.M.A. standards and are accurate to within 5%.



Ohms	Ohms	Ohms									
1	7.5	25	150	350	750	1450	2500	4500	7500	12500	30000
2	10	50	200	400	800	1500	3000	5000	8500	15000	35000
3	15	75	250	500	1000	2000	3500	6000	10000	20000	40000
5	20	100	300	600	1250	2250	4000	7000	12000	25000	50000

TYPE AB — 10 WATTS

A5750. Available in all ranges up to 50,000 ohms. Extremely popular among Servicemen and Experimenters for making up voltage divider networks. 1 1/4" long; 3/8" diam. Heavy tinned leads for easy connection. Thoroughly dependable resistor units. List. Each, 40c. NET EACH. **24c**

TYPE DG — 20 WATTS

Available in all ranges except 2, 3, 7.5, 15 and 20 ohms. 2" long; 3/8" diam. For all types of installations. A5925. 1-15,000 Ohm Units. NET EACH. **38c**
A5926. 20,000 to 50,000 Ohm Units. NET EACH. **44c**

BE SURE TO SPECIFY CORRECT VALUES WHEN ORDERING ABOVE RESISTORS

IRC VOLUME CONTROL ANALYZER AND RESISTANCE INDICATOR

A new calibrated continuously variable Resistance Indicator. Fused to protect against overloads. Direct-reading etched scale covers entire range from zero to 1 Megohm. Four flexible leads facilitate use as a voltage divider; for determining circuit values by substitution; for checking resistor units, potentiometers, etc. In sturdy molded bakelite case, complete with four color-coded leads, fuse, alligator clips, instructions. **\$4.85**



A5712. NET. **12c**
A6232. Extra 1/2 amp. fuse. NET. **12c**

RESISTORS LINE CORDS AND VOLTAGE REGULATORS

OHMITE "BROWN DEVIL" WIRE-WOUND RESISTORS



A high quality line of wire-wound resistors for all radio and industrial requirements. Accurately rated; wound on porcelain core. Vitreous enamel coating assures complete protection even where abnormal moisture is present. Size, 1 3/4" x 3/4"; with tinned wire leads.

STANDARD STOCK RANGES

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	1850†	11000*	55000†
12*	400	2000	12000*	60000†
15*	450*	2250	12500	65000†
20*	500	2400†	13500*	70000†
25	600*	2500	14300*	75000†
30*	650†	2750†	15000	80000†
35*	700	3000	16000*	85000†
40*	750	3500	17500*	90000†
50	800	4000	18000*	95000†
75	850†	4500	20000	100000†
100	900*	5000	22500*	

10 WATT RESISTORS

A8292. Available in all values from 1 to 50000 ohms, except those marked †. Specify values when ordering. **24c**

20 WATT RESISTORS

Available in all values listed above, except those marked *.

A8293. Values, 5 to 15000 ohms. Size, 2 x 1/2". Specify values desired. **38c**

A8294. Values, 20000 to 50000 ohms. Size, 2 x 1/2". Specify values desired. **44c**

A8295. Values, 55000 to 100000 ohms. Size, 2 x 1/2". Specify values desired. **59c**

SPRAGUE KOOLOHM RESISTORS



New resistors with Rubencote insulation which dissipates heat quickly and is moisture-proof. Red dot at end of shell acts as overload indicator. Accuracy guaranteed 5% or better.

STOCK RANGES AVAILABLE

Ohms	Ohms	Ohms	Ohms	Ohms
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
75	700	3000*	14000	70000

Order by Stock No. and price below SPECIFY VALUES DESIRED

5 WATT—1 1/4" x 3/8"

No.	Ohms	EACH
A4490	5 to 5000	18c
A4491	6000 to 10000	21c
A4492	12500 to 15000	24c
A4493	20000	26c
A4494	25000	26c
A4495	30000	35c
A4496	40000	44c

10 WATT—1 3/4" x 3/8"

No.	Ohms	EACH
A4497	5 to 15000	24c
A4498	17500 to 25000	29c
A4499	30000	35c
A4500	40000	44c
A4501	50000	53c
A4502	60000 to 70000	65c

NON-INDUCTIVE SUPER KOOLOHMS

For use wherever a power resistor with small phase angle is needed at audio or radio frequencies up to 50 M.C. Available in values marked with * above. 10 watt size.

No.	Ohms	EACH
A4430	10 to 1000	29c
A4431	1250 to 2000	32c
A4432	2500 to 4000	35c
A4433	5000 to 7500	41c
A4434	10000	59c

CONTINENTAL TYPE "M" BAKELITE INSULATED CARBON RESISTORS

A new carbon type resistor fully insulated in solid molded bakelite. Exclusive design features extremely low contact terminal resistance, low distributed capacity, and minimum impedance constant over wide frequency range. Axial leads and streamlined design add to space-saving qualities.

IDEAL FOR TELEVISION USE

Especially suited for use in high-gain video frequency television amplifiers where quietness of operation is most important. Will meet most exacting television equipment requirements.



(Cross-Section View)



AVAILABLE IN THE FOLLOWING RANGES:

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
50	500	2000	7500	25000	60000	200000	1.5 meg.
100	600	2500	10000	30000	70000	250000	2 meg.
150	750	3000	12500	35000	75000	300000	3 meg.
200	1000	3500	15000	40000	100000	400000	4 meg.
250	1250	4000	17500	50000	125000	500000	5 meg.
300	1500	5000	20000	55000	150000	1 meg.	10 meg.
400	1750	6000					

1/2 WATT

A8285. Type M1. 1/2" long. 3/32" dia. Available in all values above. **10c**

1 WATT

A8286. Type M1. 1" long. 1/8" dia. Available in all values above. **12c**

3 WATT

A8287. Type M3. 2" long. 1/4" dia. Available in all values above. **18c**

BE SURE TO SPECIFY VALUES DESIRED WHEN ORDERING.

LINE CORDS AND VOLTAGE REGULATORS



AC-DC SET LINE CORDS

Line cord with built-in resistor which supplies proper filament voltage for .3 amp. metal and glass tubes when connected in series. Shpg. wt., 1 lb.

No.	Ohms	No.	Ohms	NET EACH
A7207	360	A7203	220	
A7208	350	A7211	200	
A7206	330	A7202	180	29c
A7209	310	A7201	160	
A7210	290	A7212	150	10 for
A7211	280	A7200	135	\$2.50
A7204	250			

A7215. 280 With built-in aerial for Wireless Phonographs. **NET 36c**

220-110 VOLT AC-DC LINE CORD



A special cord with built-in resistor which permits the operation of any .3 ampere 110 Volt A.C.-D.C. receiver from a 220 Volt line. With plug and receptacle.

A9145. List, \$1.50. **NET 59c**



REPLACEMENT LINE BALLASTS

Exact duplicate line ballasts to replace original units in sets designed for their use. Made of quality parts to exact specifications of originals, both physically and electrically. Maintain normal voltage in spite of line fluctuations from 90 to 135 volts. Shpg. wt., 1 lb. We can supply replacement ballasts for practically any set made; send in original with deposit, stating make, model and tube line-up of set.

A3274. For Brunswick receivers.
A3275. For Majestic 70 series.
A3276. For Majestic 180 series.
A3279. For Majestic 90 series.
A3283. For Stewart-Warner 900 series.
A3284. For Stewart-Warner 950 series.
A3285. For Stewart-Warner R100 series.
List, \$1.50. **YOUR PRICE EACH 85c**

PROTEX VOLTAGE REGULATOR



An air-cooled dependable voltage regulator. Fits standard 110V. socket or outlet and will deliver correct voltage to any set. Will give lasting service. Wt., 1 lb. Lots of 5, \$1.37. **A3970. EACH 30c**

MICAMOLD UNIVERSAL AC-DC LINE CORD



A unique arrangement in one A.C.-D.C. resistance cord which gives any one of 6 resistance values up to 330 ohms. 6 pitagall leads come out of one end. Serviceman selects proper resistance required and clips off remaining leads. Keep a few on hand for quicker repair work.

A2471. **NET 49c**

CONTINENTAL VOLTACON

A versatile new voltage regulator that protects any radio from over-voltage due to line fluctuations. Assures better radio performance. Easily installed; simply plug Voltacon into wall outlet, and plug radio cord into Voltacon socket. 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. Will maintain uniform voltage and eliminate poor performance resulting from voltage fluctuations. For use with any radio of from 4 to 10 tubes, drawing not more than 100 watts. Protect your radio and get better performance with the new Continental Voltacon. Shpg. wt., 1 lb.



List, \$1.25. **A2472. NET 73c**

UNIVERSAL RESISTOVOLT

Automatic voltage regulator. Maintains a constant potential of 110 Volts, preventing tube burnouts. Shpg. wt., 1 lb.

A5501. Heavy-Duty for sets over 6 tubes. **NET EACH 56c**



CLAROSTAT A.C. LINE VOLTAGE REGULATOR

Automatically adjusts line voltage for all 110 Volt A.C. radios using power shown. Protects against fluctuating voltages. 1 lb.

No.	Type	Watts
A3260	O.	Up to 600
A3261	A.	60 to 100
A3262	B.	100 to 150
A3263	C.	150 to 200
A3264	D.	200 to 250

List, \$1.75. **NET EACH 49c**



450 VOLT ELECTROLYTICS



CARDBOARD TYPE LD

Exceptionally high quality dry electrolytic condensers. Compact, moisture-proof.

Working Volts, 450; peak Volts, 525.

No.	Mfd.	Size in inches	NET
A11400	2	2 1/2 x 1 1/2 x 1 1/2	\$0.38
A11401	4	4 x 1 1/2 x 3/4	.44
A11402	6	4 x 1 1/2 x 1	.53
A11403	8	4 x 1 1/2 x 1	.56
A11411	10	4 x 1 1/2 x 1 1/2	.68
A11404	12	4 x 1 1/2 x 1 1/2	.85
A11405	16	4 x 1 1/2 x 1 1/2	.85
A11406	4-4	4 x 1 1/2 x 1 1/2	.71
A11407	4-8	4 x 1 1/2 x 1 1/2	.79
A11408	8-8	4 x 1 1/2 x 1 1/2	.88
A11409	8-8	4 (4 Leads)	.88
A11410	8-8-8	4 1/2 x 1 x 2	1.29
A11412	8-8-8	(6 Leads)	1.29

PINHEAD "TINY-MIKES" TYPE PTM



New, double-tested, compact dry electrolytics. 450 V. working, max. surge. 525 V. Tahs may be rotated, adjusted, or bent.

No.	Mfd.	Size in inches	NET
A11380	2	3/4 x 1/2 x 1 1/2	38c
A11381	4	1 x 1/2 x 2 1/2	44c
A11382	8	1 x 1/2 x 2 1/2	56c
A11383	12	1 1/2 x 1/2 x 2 1/2	76c
A11384	16	1 1/2 x 1/2 x 2 1/2	85c
A11385	4-4	1 1/2 x 1/2 x 2 1/2	71c
A11386	8-8	1 1/2 x 1/2 x 2 1/2	79c
A11387	8-8	1 1/2 x 1/2 x 2 1/2	88c



ALUMINUM CAN DRY UNITS—TYPE LS

Excellent for all filter uses. Extremely low power factor assures best results. Hermetically sealed against moisture; unaffected by heat. Supplied with insulated washers, solder lug, terminal nut and lock washer. Wkg. V. 450. Max. surge voltage, 525 volts. High quality compact units.

No.	Mfg.	Size in inches	NET
A11438	2	1 x 3 1/2	\$0.44
A11439	4	1 x 3 1/2	.50
A11440	8	1 1/2 x 4 1/2	.62
A11441	12	1 1/2 x 4 1/2	.82
A11442	16	1 1/2 x 4 1/2	.91
A11443	8-8	1 1/2 x 4 1/2	.94
A11444	8-8	(4 Leads)	.94

SILVERED MICA CONDENSERS



An inexpensive substitute for air condensers. Minimum Q of 1500. Highly stable; capacity not affected by temperature or humidity. Wkg. voltage, 700 V. D.C.

No.	Mfd.	NET	No.	Mfd.	NET
A13250	.000005	21c	A13260	.0005	
A13251	.00001		A13261	.0006	
A13252	.000015	18c	A13262	.0007	18c
A13253	.00002		A13263	.0008	
A13254	.000025		A13264	.0009	
A13255	.00005		A13265	.001	21c
A13256	.0001	15c	A13266	.002	24c
A13257	.0002		A13267	.003	29c
A13258	.0003	18c	A13268	.004	32c
A13259	.0004		A13269	.005	35c

PAPER REPLACEMENTS FOR DRY TYPE ELECTROLYTICS



Paper condensers of the same sizes and shapes as dry electrolytics. Low leakage and power factor. No polarity to observe.

TYPE DR—METAL CAN					
No.	Mfd.	Wkg. V.	Size in inches	NET	
A13275	4	600	4 1/2 x 1 1/2	\$0.79	
A13276	8	600	4 x 1 1/2	1.03	
A13277	4-4	600	4 1/2 x 1 1/2	1.32	
A13278	8-8	600	4 x 1 1/2	1.65	

TYPE RP—CARDBOARD					
No.	Mfd.	Wkg. V.	Size in inches	NET	
A13279	8	600	4 1/2 x 1 1/2 x 1 1/2	\$0.94	
A13280	8	600	4 1/2 x 1 1/2 x 1 1/2	1.56	



SPRAGUE ATOMS MIDGET ELECTROLYTICS

New "mite-size" dry electrolytics, perfect for replacements. Sized to fit the smallest spaces yet built for low leakage, high voltage, and long life. Contained in sealed aluminum tubes and protected against "blow-ups."

No.	Mfd.	Wkg. V.	Size	NET
A13316	4	450	1 1/2 x 1 1/2	32c
A13317	8	450	1 1/2 x 1 1/2	35c
A13318	12	450	1 1/2 x 1 1/2	43c
A13319	16	450	1 1/2 x 1 1/2	53c
A13320	20	450	1 1/2 x 1 1/2	59c
A13313	4	350	7/8 x 1 1/2	29c
A13314	8	350	7/8 x 1 1/2	32c
A13315	12	350	7/8 x 1 1/2	41c
A13309	4	250	3/4 x 1 1/2	26c
A13310	8	250	3/4 x 1 1/2	29c
A13311	12	250	3/4 x 1 1/2	38c
A13312	16	250	3/4 x 1 1/2	44c
A13303	4	150	3/4 x 1 1/2	24c
A13304	8	150	3/4 x 1 1/2	26c
A13305	12	150	3/4 x 1 1/2	32c
A13306	16	150	3/4 x 1 1/2	29c
A13307	20	150	3/4 x 1 1/2	35c
A13308	40	150	1 1/2 x 1 1/2	38c
A13355	5	50	1 1/2 x 1 1/2	24c
A13356	10	50	1 1/2 x 1 1/2	26c
A13302	25	50	1 1/2 x 1 1/2	32c
A13303	10	25	1 1/2 x 1 1/2	34c
A13301	25	25	1 1/2 x 1 1/2	29c

DUAL CARDBOARD TUBULARS

No.	Mfd.	Wkg. V.	Size	NET
A13328	8-8	450	1 1/2 x 2 1/2	62c
A13354	8-16	450	1 x 2 1/2	79c
A13321	8-8	350	1 1/2 x 3	56c
A13353	8-16	250	3/4 x 2 1/2	62c
A13352	16-16	250	3/4 x 2 1/2	76c
A13351	8-16	200	1 1/2 x 2 1/2	56c
A13350	12-12	200	1 1/2 x 2 1/2	62c
A13349	16-16	200	1 1/2 x 2 1/2	62c
A13350	8-8	150	3/4 x 2 1/2	47c
A13351	20-20	150	1 1/2 x 2 1/2	62c
A13352	10-10	50	3/4 x 2 1/2	47c



TUBULAR BY-PASS UNITS

Neat and compact tubular condensers. Non-inductively wound. Oil-impregnated.

Type TC—Test Volts 1200—Wkg. Volts 600

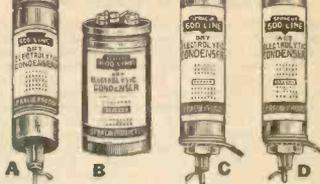
No.	Mfd.	Size in inches	NET
A11360	.0001	7/8 x 3/8	
A11361	.00025	7/8 x 3/8	
A11362	.0004	7/8 x 3/8	
A11363	.0005	7/8 x 3/8	
A11364	.001	1 1/4 x 7/8	
A11365	.002	1 1/4 x 7/8	
A11366	.003	1 1/2 x 7/8	
A11367	.004	1 1/2 x 7/8	
A11368	.005	1 1/2 x 7/8	
A11369	.006	1 1/2 x 7/8	
A11370	.01	1 1/2 x 1	
A11371	.02	1 1/2 x 1	
A11378	.03	1 1/2 x 1 1/2	12c
A11379	.04	1 1/2 x 1 1/2	12c
A11372	.05	1 1/2 x 1 1/2	12c
A11373	.06	1 1/2 x 1 1/2	15c
A11374	.1	1 1/2 x 1 1/2	15c
A11375	.15	2 1/2 x 1 1/2	21c
A11376	.25	2 1/2 x 1 1/2	29c
A11377	1.0	2 1/2 x 1 1/2	47c

HANDY KIT OF TYPE TC UNITS



An assortment of the most frequently used types. Kit provides a handy means of keeping up your tubular condenser stock. Have the capacities you need—when you need them. Contains: 3—.01, 3—.02, 3—.05, 8—.1, 4—.25 and 4—5 condensers. All 25 units are 600 Volts working. A11452. \$3.75 NET.

"600" ELECTROLYTICS



ALUMINUM CAN TYPE

Extremely long-life filter condensers. Low power factor and low leakage. 600 volts Peak; 475 volts Working. Impervious to heat and moisture. A and B have mounting brackets.

UPRIGHT TYPE AC—FIG. A

No.	Mfd.	Size	NET
A11330	2	1 x 3 1/2	\$0.65
A11331	8	1 1/2 x 4 1/2	.88
A11332	12	1 1/2 x 4 1/2	1.21
A11333	16	1 1/2 x 4 1/2	1.35

MULTIPLE UNITS—FIG. B

No.	Mfd.	Size	NET
A11334	8-8	1 1/2 x 4 1/2	1.41
A11335	8-8-8	3 x 4 1/2	2.35
A11336	5-15	2 1/2 x 4 1/2	1.96

INVERTED TYPE SC—FIG. C

No.	Mfd.	Size	NET
A11341	4	1 x 3 1/2	\$0.73
A11342	8	1 1/2 x 4 1/2	.88
A11345	10	1 1/2 x 4 1/2	1.06
A11346	12	1 1/2 x 4 1/2	1.21
A11347	16	1 1/2 x 4 1/2	1.35
A11343	8-8	1 1/2 x 4 1/2	1.41
A11344	8-8	(4 Leads)	1.41

"500" WET ELECTROLYTICS

Heavy-duty, self-healing condensers. Leak-proof. 500 Volts Peak.

Type WC—Fig. D—500 Volts Peak

No.	Mfd.	Size	NET
A11350	4	1 x 3 1/2	\$0.47
A11351	8	1 1/2 x 4 1/2	.56
A11352	10	1 1/2 x 4 1/2	.62
A11353	12	1 1/2 x 4 1/2	.68
A11354	16	1 1/2 x 4 1/2	.79
A11355	18	1 1/2 x 4 1/2	.85
A11356	20	1 1/2 x 4 1/2	.97
A11357	25	1 1/2 x 4 1/2	1.00



600 V. CARDBOARD CASED

600 Volts Peak, 475 Volts Working. Long push-back leads and mounting flanges.

TYPE DC—STANDARD UNITS

No.	Mfd.	Size in inches	NET
A11300	2	2 1/2 x 7/8 x 7/8	\$0.56
A11301	4	4 x 1 1/2 x 7/8	.68
A11302	6	4 x 1 1/2 x 1 1/8	.76
A11303	8	4 x 1 1/2 x 1 1/8	.79
A11304	4-4	4 x 1 1/2 x 1 1/8	1.08
A11305	4-8	4 x 1 1/2 x 1 1/8	1.18
A11306	8-8	4 x 1 1/2 x 1 1/2	1.29
A11307	8-8	(4 Leads)	1.29

TUBULAR ELECTROLYTICS



No.	Mfd.	Wkg. V.	Size in "	NET
A11480	1	450	1 1/2 x 2 1/2	\$0.32
A11481	2	450	1 1/2 x 2 1/2	.38
A11482	8	450	1 1/2 x 2 1/2	.56
A11483	8-8	450	1 1/2 x 3 1/2	.88
A11485	2	200	1 1/2 x 2 1/2	.32
A11489	16	200	1 x 2 1/2	.61
A11490	25	200	1 x 2 1/2	.73
A11491	8-8	200	1 x 2 1/2	.73
A11492	8-12	200	1 x 2 1/2	.70
A11493	8-16	200	1 x 3 1/2	.85
A11494	2	100	1 1/2 x 2 1/2	.29
A11496	8	100	3/4 x 2 1/2	.35
A11498	25	100	1 1/2 x 2 1/2	.56
A11430	10	50	1 1/2 x 2 1/2	.38
A11432	50	50	1 1/2 x 3 1/2	.70
A11434	5	25	1 1/2 x 2 1/2	.29
A11435	10	25	1 1/2 x 2 1/2	.29
A11436	50	25	1 1/2 x 2 1/2	.56
A11437	10-10	25	1 1/2 x 2 1/2	.44



KNIGHT ELECTROLYTIC CONDENSERS

FINEST ELECTROLYTIC UNITS YOU CAN BUY!

Quality materials, quality construction, and quality safeguards have gained for KNIGHT Condensers a national reputation for outstanding efficiency, long life, and trouble-free service. Thousands of Servicemen, Amateurs, Radio Builders and Experimenters 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 KNIGHT famous quality trade-mark. Outstanding features include: sturdy cardboard container; etched aluminum foil; superior grade cellulose separator; terminal lead securely riveted; push-back leads—quality built throughout.

CARDBOARD CASED 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 allow the greatest flexibility in mounting. Conservatively rated at 525 D.C. surge volts; 450 D.C. working volts. Multiple units have separate sections. KNIGHT condensers will do the job efficiently and inexpensively.

525 VOLTS SURGE—450 VOLTS WKG.

SINGLE SECTION			
No.	Mfd.	Size, Inches	NET
A3823	2	4 1/4 x 1 3/8 x 5/8	23c
A3824	4	4 1/4 x 1 3/8 x 5/8	27c
A3825	6	4 1/4 x 1 3/8 x 5/8	32c
A3826	8	4 1/4 x 1 3/8 x 5/8	34c
A3827	10	4 3/8 x 1 1/2 x 1 1/4	41c
A3828	12	4 3/8 x 1 1/2 x 1 1/4	47c
A3811	16	4 3/8 x 1 1/2 x 1 1/4	52c

MULTIPLE SECTION

A3829	4-4	4 3/8 x 1 3/8 x 1 1/4	43c
A3830	4-8	4 3/8 x 1 3/8 x 1 1/4	49c
A3832	8-8	4 3/8 x 1 1/2 x 1 1/4	54c
A3833	4-4-4	4 3/8 x 1 3/8 x 1 1/4	65c
A3834	8-8-8	4 3/8 x 2 1/8 x 1 1/4	80c



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. Hole centers, 2 1/16".

525 VOLTS SURGE—450 VOLTS WKG.

No.	Mfd.	Size, Inches	NET
A3813	2	2 3/8 x 1 x 5/8	23c
A3814	4	2 3/8 x 1 x 5/8	27c
A3815	6	2 3/8 x 1 1/8 x 3/4	32c
A3816	8	2 3/8 x 1 1/8 x 3/4	34c
A3817	12	2 3/8 x 1 3/8 x 1 1/4	47c
A3818	4-4	2 3/8 x 1 3/8 x 1 1/4	43c
A3819	8-8	2 3/8 x 1 3/8 x 1 1/4	54c



CARTRIDGE TYPE DRY ELECTROLYTICS

Cardboard encased electrolytics with 2" bare wire leads. Completely wax-filled. They vary from 2 to 3" long; 3/8 to 1" diameter. Dependable units for all filter applications.

No.	Mfd.	D. C. Wkg.	Surge V.	NET
A3776	1	450	525	20c
A3777	2	450	525	24c
A3799	3	450	525	33c
A3784	8	250	200	27c
A3798	16	150	75	28c
A3787	5	50	75	28c
A3788	10	50	75	22c
A3790	5	25	40	16c
A3791	10	25	40	16c
A3792	25	25	40	23c
A3793	5-5	25	40	23c
A3794	10-10	25	40	23c

Deduct 10% on Orders for 10 or More Cartridge Type Dry Electrolytics.



"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. Hermetically sealed.

No.	Mfd.	Wkg. V.	Size	NET
A4400	4	450	1 3/8" x 3/8"	24c
A4401	8	450	1 3/8" x 3/8"	26c
A4402	12	450	1 3/8" x 3/8"	33c
A4403	16	450	2 1/8" x 3/8"	39c
A4404	20	450	2 1/8" x 3/8"	44c
A4405	4	350	1 3/8" x 3/8"	21c
A4406	8	350	1 3/8" x 3/8"	24c
A4407	12	350	1 3/8" x 3/8"	30c
A4408	4	250	1 3/8" x 3/8"	20c
A4409	8	250	1 3/8" x 3/8"	22c
A4410	12	250	1 3/8" x 3/8"	29c
A4411	16	250	1 3/8" x 3/8"	33c
A4412	4	150	1 3/8" x 3/8"	18c
A4413	8	150	1 3/8" x 3/8"	20c
A4414	12	150	1 3/8" x 3/8"	21c
A4415	16	150	1 3/8" x 3/8"	24c
A4416	20	150	1 3/8" x 3/8"	26c
A4417	40	150	1 3/8" x 3/8"	29c
A4426	5	50	1 3/8" x 3/8"	20c
A4427	10	50	1 3/8" x 3/8"	22c
A4418	25	50	1 3/8" x 3/8"	24c
A4419	10	25	1 3/8" x 3/8"	18c
A4420	25	25	1 3/8" x 3/8"	22c

DUAL CARDBOARD TUBULARS

A4480	8-8	450	2 1/2" x 1 1/8"	44c
A4481	8-16	450	2 3/4" x 1 1/8"	59c
A4482	8-8	350	3" x 1 1/8"	41c
A4483	8-16	250	2 7/8" x 3/4"	45c
A4484	8-16	200	2 7/8" x 3/4"	41c
A4485	12-12	200	2 7/8" x 3/4"	41c
A4486	16-16	200	2 7/8" x 3/4"	45c
A4487	20-20	150	2 7/8" x 3/4"	45c
A4488	10-10	50	2 7/8" x 3/4"	29c



UNIVERSAL REPLACEMENT DRY ELECTROLYTICS

Excellent for general replacement use. Average sizes: Figure A—1 3/8" x 3/8"; Figure B—1 3/8" x 3/4"; Figure C—1 3/8" x 3/4". *1 3/8" x 3/4".

No.	Mfd.	Wkg. V.	Fig.	NET
A4770	8-8	450	A	54c
A4771	8-8	450	B	54c
A4772	8-16	450	A	66c
A4773	8-16	450	B	66c
A4774	16-16*	450	A	80c
A4775	16-16*	450	B	80c
A4778	8-8	200	B	42c
A4779	8-16	200	B	44c
A4780	12-16	200	A	57c
A4776	16-16	200	A	58c
A4777	20-20	200	C	48c
A4778	20-20	150	C	42c
A4782	8-16	200	B	42c
A4783	10-10	25	B	68c
A4784	8-16	200	A	68c
	10-10	25	A	68c
	12-16	200	A	75c
	10-10	35	A	75c

FULLY GUARANTEED FOR ONE WHOLE YEAR!

Electrically and mechanically, KNIGHT Condensers are the best that can be made and are guaranteed unconditionally for a year. We will gladly replace any KNIGHT Condenser that does not give one full year of satisfactory 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. Don't be misled by the very low prices of these condensers. Only the highest quality materials and the finest production methods are employed throughout their manufacture.

NEW BASE PRONG DRY ELECTROLYTICS

A new type of dry electrolytic condenser with base prongs which fit chassis slots for mounting. Twisting base tabs provide a quick, convenient, rigid mounting. Hermetically sealed for high stability. Molded rubber base with self-heating vent. Metal can is negative lead. Standard diameters, 1" and 1 3/8".



No.	Mfd.	Wkg. V.	Size"	NET
A4785	10	450	1x2	34c
A4786	20	450	1x2 1/2	50c
A4791	20-20	450	1x2 1/2	52c
A4790	10-10	250	1 1/2 x 2 1/2	52c
A4789	20-20	250	1x2	68c
A4787	20-20	150	1x2	48c
A4788	30-30	150	1x2	54c
A4794	10-10	450-350	1 3/8 x 3	76c
A4793	15-15	25		
	20	250-25	1x2	80c
A4792	30-20			
	20	150-25	1x2 1/2	66c

MOUNTING PLATES

A4796. Grounding Plate for 1" can.
A4797. Insulating Plate for 1" can.
A4798. Grounding Plate for 1 3/8" can.
A4799. Insulating Plate for 1 3/8" can.

EACH 2 1/2c

ALUMINUM CAN TYPE DRY ELECTROLYTICS

Popular, low-priced dry electrolytic condensers mounted in aluminum insulated containers. Have standard stud and nut mounting and insulated leads.



525 V. Surge—450 V. Wkg.

No.	Mfd.	Size"	NET
A3851	4	3 1/2 x 1 3/4	31c
A3853	8	4 3/8 x 1 3/4	38c
A3855	12	4 3/8 x 1 3/4	50c
A3859	16	4 3/8 x 1 3/4	56c
A3856	4-4	4 3/8 x 1 3/4	47c
A3859	8-8	4 3/8 x 1 3/4	58c
A3860	4	2 1/2 x 1	33c
A3868	8	2 1/2 x 1	31c
A3869	16	2 1/2 x 1	56c

MULTIPLE UPRIGHTS

Negative terminals grounded to aluminum can. Positive leads brought out to lugs at top. Wkg. voltage, 450 V.; surge voltage, 525 V. In moisture-proof aluminum containers with each section separately wrapped and insulated.

No.	Mfd.	Size"	NET
A3860	8-8	4x2 1/2	\$0.65
A3861	4-4-4	4x2 1/2	.77
A3862	5-15	4x2 1/2	.65
A3863	8-8-8	4x3	.85
A3864	8-8-8-8	4x3	.98
A3865	9-9-18	4x3	1.35
A3866	9-9-18-18	4x3 1/4	1.55

WET ELECTROLYTICS

For heavy-duty filter work. Self-healing properties and ability to withstand voltage overloads make these units dependable. 1 1/2" dia., 4 3/8" high.

No.	Mfd.	Peak Volts	NET
A2712	8	600	53c
A2713	4	500	35c
A2714	8	500	38c
A2715	10	500	38c
A2716	12	500	45c





KNIGHT BY-PASS AND REPLACEMENT CONDENSERS



KNIGHT MOLDED BAKELITE MICA CONDENSERS

Genuine bakelite molded units with bare leads $1\frac{1}{4}$ " long. Test voltage: 1000 V. D.C. to .002 mfd.; 750 V. D.C. above .002 mfd. Size: $\frac{3}{8}$ " square. Selected and treated foil-mica stacks assure high Q and low power factor.
Deduct 10% on orders for 10 or more of these units. Buy in quantities and save.

No.	Mfd.	NET	No.	Mfd.	NET
A7827	.000025	EACH	A7822	.0006	EACH
A7828	.00004		A7823	.0007	8c
A7829	.00005		A7836	.0008	
A7830	.00007	6c	A7824	.0009	
A7831	.0001		A7837	.001	10c
A7832	.00015		A7838	.0015	
A7833	.0002		A7839	.002	
A7834	.00025		A7840	.0025	12c
A7835	.0003	8c	A7841	.003	
A7836	.0004		A7842	.004	
A7837	.0005		A7825	.005	15c



SILVER MICA CONDENSERS

Especially recommended for circuits where highest stability is required. Designed to resist drift; all types have high Q and are unusually stable. Molded in special hard wax; have thoroughly anchored $1\frac{1}{4}$ " bare leads. Test voltage: 1000 V. D.C.; operating voltage: 500 V. D.C. Size: $\frac{3}{8}$ "x $\frac{3}{8}$ "x $\frac{1}{4}$ ".
Deduct 10% on orders for 10 or more.

No.	Mfd.	NET	No.	Mfd.	NET
A7843	.0001	10c	A7852	.0008	12c
A7844	.00015		A7853	.0009	14c
A7845	.0002		A7854	.001	16c
A7846	.00025		A7855	.0015	18c
A7847	.0003	12c	A7856	.002	20c
A7848	.0004		A7857	.0025	22c
A7849	.0005		A7858	.003	24c
A7850	.0006		A7859	.004	
A7851	.0007		A7869	.005	

KNIGHT UNCASED SECTIONS

Wax-dipped for use in filter block repairing. Compact; high dielectric factor. 6" leads.

		200 VOLTS		400 VOLTS	
Mfd.	No.	Net	No.	Net	
.25	A7741	9c	A7746	16c	
.5	A7742	11c	A7747	18c	
1.0	A7743	13c	A7748	20c	
2.0	A7744	29c	A7749	54c	
		600 VOLTS		1000 VOLTS	
.25	A7750	24c	A7754	36c	
.5	A7751	26c	A7755	49c	
1.0	A7752	33c	A7756	73c	

Deduct 10% on orders for 10 or more of above sections. Buy them in quantities and save.

EXACT DUPLICATE BLOCKS

The units below have the same physical dimensions as the originals. We can also supply condenser blocks not shown. Send in old block with deposit and information and we will duplicate.

No.	Model	NET
A7105	37	\$2.94
A7106	Spr. filter (A.K. 14902)	.59
A7107	40, 42, 46, 52, 37, 38, 39	
	($\frac{1}{2}$ "x $\frac{1}{4}$ ")	.59
A7128	40, 52. Condensers only	1.47
KNIGHT		
A7109	SG8	\$3.40
A7110	SG8 (212)	.52
A7111	SG8 (213)	.58
A7112	SG8 (214)	.73
A7113	AC3 (1.0)	.83
MAJESTIC		
A7115	70, 76, 7BP6	\$1.70
A7118	90, 976, 9BP6 (with res.)	1.85
A7119	90 (5)	.34
A7120	180, 8P6	2.90
A7122	50	2.20
RCA-VICTOR		
A7124	R32, RE45, 52	\$4.20



KNIGHT CONDENSER KITS WITH FREE METAL CABINETS

Order the condenser kits listed below, and receive absolutely free the handy metal cabinets. They measure $9\frac{1}{4}$ "x $4\frac{1}{2}$ "x $2\frac{1}{2}$ ". Finished in dark green. Provision is made for stacking several of these cabinets. Ideal for housing small parts.

KIT OF "TINY KNIGHTS"

A new popular assortment. Values are suggested by "Radio Retailing" article on required service shop stocks. Consists of 6—A4401 8 mfd. 450 volt; 3—A4400 4 mfd. 450 volt; 3—A4409 8 mfd. 250 volt; 2—A4411 16 mfd. 250 volt; 2—A4480 8-8 mfd. 450 volt; and 1—A4418 25 mfd. 50 volt condensers.
A7765 With Cabinet.....\$4.72

STANDARD DRY ELECTROLYTICS

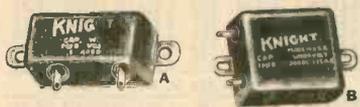
Kit of KNIGHT Cardboard and Can Type Electrolytics. Consists of: 3—A3853 8 mfd. 450 volt; 8—A3826 8 mfd. 350 volt, and 4—A3824 4 mfd. 450 volt condensers. **\$4.94**
A7766. With Cabinet,.....\$4.94

PERM-A-SEAL TUBULARS

Consists of: 2—.001, 2—.002, 4—.005, 7—.01, 5—.02, 8—.1 at 600 V., 4—.05, 8—.1, 2—.25, 2—.5 at 400 V., 5—.1, 3—.25, 1—.5 at 200 V. KNIGHT Perm-a-Seals.
A7767. With Cabinet.....\$4.11

FREE! Select any assortment of KNIGHT Electrolytic Condensers (Perm-a-Seal and new TINY-KNIGHTS may be included) which totals \$5.00 net or over, and 1 metal cabinet will be included FREE.
A7762. Single Metal Cabinet unit when bought separately. NET.....95c

KNIGHT BATHTUB CONDENSERS



Non-inductive, moisture-proof bathtub condensers. Type A: $1\frac{1}{2}$ "x $1\frac{3}{4}$ ". Type B: Single, $1\frac{1}{2}$ "x $2\frac{3}{4}$ ", multiple, $2\frac{1}{2}$ "x $1\frac{3}{4}$ ". **Deduct 10% on orders for 10 or more of these units.**

BY-PASS (TYPE A)

No.	Mfd.	Volts	EACH
A7773	.1	200	13c
A7774	.25	200	17c
A7775	.5	200	22c
A7777	.25	300	18c
A7778	.25	300	32c
A7779	.05	400	12c
A7781	.05	400	15c
A7782	.25	400	19c
A7783	.25	400	19c
A7784	.1-1	400	26c

SINGLE SECTION (TYPE B)

No.	Mfd.	Volts	EACH
A7786	1.0	200	30c
A7787	2.0	200	49c
A7789	1.0	300	31c
A7791	1.0	300	19c
A7792	.5	400	19c
A7793	.5	400	22c

MULTIPLE SECTION (TYPE B)

No.	Mfd.	Volts	EACH
A7794	1-1-1-1-1	200	52c
A7795	.25-25	300	30c
A7796	.5-5	300	38c
A7797	1-1-1	400	36c
A7798	.25-.25	400	31c
A7799	.5-.5	400	37c



KNIGHT PERM-A-SEAL TUBULAR CONDENSERS

Specialty-treated tubulars with spun ends. Non-inductive wound with tinfoil. Leads sold, cred to sections. Built to highest standards. **Deduct 10% on orders for 10 or more.**

Mfd.	400 VOLTS		600 VOLTS	
	No.	NET	No.	NET
.001	A7915		A7931	
.002	A7916		A7932	
.003	A7917		A7933	
.004	A7918	6c	A7934	6c
.005	A7919		A7935	6c
.006	A7920		A7936	6c
.01	A7921		A7937	8c
.02	A7922		A7938	8c
.03	A7923	7c	A7939	8c
.04	A7924		A7940	
.05	A7925		A7941	
.06	A7926		A7942	
.1	A7927	8c	A7943	9c
.25	A7928	10c	A7944	12c
.5	A7929	14c	A7945	19c
1.0	A7930	20c		

200 VOLTS			DUAL UNITS		
No.	Mfd.	NET	No.	Mfd.	NET
A7910	.1		A7946	.1-1	200 14c
A7911	.2	7c	A7947	.25-25	200 16c
A7912	.25		A7948	.1-1	400 14c
A7913	.5	13c	A7949	.1-1	600 24c
A7914	1.0	20c			

KNIGHT CONDENSER KITS

Kits of 12 popular Knight tubular condensers on handy strips.

A7760. Consists of:

Mfd.	Volts	Mfd.	Volts
.001	400	.004	600
.003	400	.005	600
.005	400	.01	600
.006	400	.03	600
.001	600	.05	600
.002	600	1.0	600

YOUR PRICE.....79c

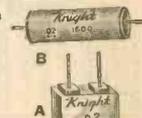
A7761. Consists of:

Mfd.	Volts	Mfd.	Volts
.1	200	.05	400
.25	200	.06	400
.5	200	1.0	400
1.0	200	.25	400
.01	400	.5	400
.03	400	1.0	400

YOUR PRICE.....\$1.27

VIBRATOR CONDENSERS

Oil-impregnated condensers capable of withstanding heavy voltages in vibrators. Suitable as replacements in hundreds of units. Housed in fully shielded cans. Wkg. V., 1600 D.C. Units marked * have one lead.



No.	Fig.	Mfd.	Size	NET
A7860	A	.02	1x $\frac{1}{2}$ "x $\frac{1}{4}$ "	Each
A7861	A	.01	1x $\frac{1}{2}$ "x $\frac{1}{4}$ "	
A7862	A*	.007	1x $\frac{1}{2}$ "x $\frac{3}{8}$ "	22c
A7863	A*	.01	1x $\frac{1}{2}$ "x $\frac{3}{8}$ "	
A7864	A*	.02	1x $\frac{1}{2}$ "x $\frac{3}{8}$ "	10 For
A7865	B	.01	Tubular	\$1.98
A7866	B	.02	Tubular	

"600" DRY ELECTROLYTICS



600 Volt Peak—475 V.D.C. Wkg.

Developed especially for P. A. use in amplifiers and for use in equipment where condenser failure must not occur. Will stand heavy surges and overloads. Mounting tabs may be cut off.

No.	Mfd.	Size	NET
A3801	4	4x $\frac{1}{2}$ "x1x $\frac{7}{8}$ "	46c
A3802	4	4x $\frac{1}{2}$ "x1x $\frac{1}{2}$ "	54c
A3803	4-4	4x $\frac{1}{2}$ "x1x $\frac{1}{2}$ "	72c
A3804	4-8	4x $\frac{1}{2}$ "x1x $\frac{1}{2}$ "	80c
A3805	8-8	4x $\frac{1}{2}$ "x1x $\frac{1}{2}$ "	88c

CARDBOARD TUBULAR DRY ELECTROLYTICS



Typical Mallory quality is built into each of these low-cost tubular electrolytic condensers.

TYPES ST, TN, 2N, 2P, 2S, 3N, 3S, 4N, 4S

A complete line of single and multiple units for replacement and set-building requirements.

Every condenser is made mechanically strong, electrically efficient, and com-

patible in size. Low power ratings and excellent construction. Note: Capacities at same voltage are shown separated by comma; hyphen separation indicates change in voltage.

ST — SINGLE UNITS

No.	Mfd.	Wkg. V.	Type	Size	NET
A14850	8	450	595	7/8 x 2 3/4"	\$0.35
A14851	12	450	596	1 x 2 3/4"	.34
A14852	16	450	597	1 1/4 x 2 3/4"	.53
A14853	8	350	590	3/4 x 2 1/2"	.32
A14854	12	350	591	1/2 x 2 1/2"	.41
A14855	8	250	585	7/8 x 2 1/2"	.29
A14856	16	250	587	1 x 2 1/2"	.44

2N — DUAL COMMON-NEGATIVE

No.	Mfd.	Wkg. V.	Type	Size	NET
A14857	8-8	450	518	1 x 3 1/2"	\$0.62
A14858	8-8	350	517	1 1/2 x 3 1/2"	.56
A14859	8-8	250	516	1 1/2 x 2 1/2"	.50
A14860	8-8	150	502	3/4 x 2 3/4"	.47
A14861	16-8	150	504	1 1/2 x 2 3/4"	.50
A14862	16-16	150	506	7/8 x 2 3/4"	.56
A14863	20-10	150	507	7/8 x 2 3/4"	.56
A14864	20-20	150	509	1 1/2 x 2 3/4"	.62
A14865	10-10	50	1131	3/4 x 1 3/4"	.47
A14866	10-10	25	1111	7/8 x 1 3/4"	.41

2P — DUAL COMMON-POSITIVE

No.	Mfd.	Wkg. V.	Type	Size	NET
A14867	8-8	150	542	1 1/2 x 2 1/2"	\$0.59
A14868	12-4	150	543	1 1/2 x 2 1/2"	.59
A14869	16-8	150	544	1 1/2 x 2 1/2"	.65
A14870	16-16	150	546	7/8 x 2 1/2"	.73
A14871	20-20	150	549	1 1/2 x 2 1/2"	.79

2S — DUAL SEPARATE-SECTION

No.	Mfd.	Wkg. V.	Type	Size	NET
A14872	8-8	450	567	1 3/4 x 3"	\$0.79
A14873	8-16	450	563	1 3/4 x 3 1/2"	.97
A14874	8-8	350	564	1 3/4 x 3"	.73
A14875	8-8	250	560	1 3/4 x 2 3/4"	.65

3N — TRIPLE COMMON-NEGATIVE

No.	Mfd.	Wkg. V.	Type	Size	NET
A14880	8, 4-10	150-25	520	3/4 x 2 1/2"	\$0.65
A14881	8, 10-10	150-25	525	1 1/4 x 2 1/2"	.73
A14882	16, 16-20	150-25	526	1 1/2 x 2 1/2"	.79
A14883	8-8-8	150	1201	1 1/2 x 2 1/2"	.68
A14884	16-8-4	150	1221	7/8 x 2 1/2"	.71

3S — TRIPLE SEPARATE-SECTION*

No.	Mfd.	Wkg. V.	Type	Size	NET
A14885	8, 8-20	450-25	579	1 3/4 x 3 3/4"	\$0.97
A14886	8, 8-20	350-25	575	1 3/4 x 3 1/4"	.88
A14887	8, 8-20	250-25	570	1 3/4 x 3"	.88
A14888	8, 8, 8	450	584	1 3/4 x 3 3/4"	1.09
A14889	8, 8, 8	350	583	1 3/4 x 3 1/4"	.97
A14890	8, 8, 8	250	582	1 3/4 x 3"	.88

4N — QUAD COMMON-NEGATIVE

No.	Mfd.	Wkg. V.	Type	Size	NET
A14891	8, 8-10, 10	150-25	701	1 x 2 3/4"	\$0.85

4S — QUAD SEPARATE-SECTION*

No.	Mfd.	Wkg. V.	Type	Size	NET
A14892	8, 8-10, 10	450-25	718	1 1/2 x 3 3/4"	\$1.18

*First section separate, others have common negative. †Mallory Type TN.

HEAVY-DUTY CAPACITORS



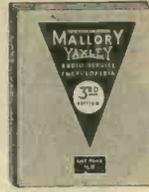
Type HD and HS condensers are ideal for all heavy-duty applications and coded wire designed primarily for public address and theater applications, they may be used wherever extra

safety factor is desirable. In cardboard container. Has mounting flanges and coded wire leads. Quality-built units with plenty of safety built-in to handle heavy-duty requirements. You can depend on them for long service.

No.	Mfd.	Wkg. V.	Type	Size	NET
A14895	8	500	682	1 1/2 x 1 1/2 x 2 1/2"	\$0.88
A14896	8	600	692	1 1/4 x 1 1/2 x 2 1/2"	1.44
A14897	4	600	690	7/8 x 1 1/4 x 3"	1.03

NEW MALLORY-YAXLEY RADIO ENCYCLOPEDIA

A completely revised new edition. The most valuable book published for radio servicemen. Analyzes over 17,000 receivers with data on volume controls, resistors, condensers, vibrators, and filter circuits. Cloth bound. 8 1/2" x 11".
A11869. NET 75c.



ALLIED STOCKS ALL THE MALLORY UNITS

Any item not listed here may be ordered from ALLIED at 40/2% discounts from list prices shown in the Mallory Encyclopedia. We can supply all Mallory products promptly.

A11868. 1940 Mallory Condenser Catalog sent FREE. Request a copy of your order.

CARDBOARD CARTON DRY ELECTROLYTICS

Small and compact replacement condensers. Internal metal seal prevents damage from excess heat or humidity. With mounting flanges. All units have 8 color-coded leads.



CS — SINGLE SECTION

No.	Mfd.	Type	Size	NET
A11700	2	130	1/2 x 3/4 x 2 1/4"	\$0.38
A11701	4	131	3/8 x 1/2 x 2 1/8"	.44
A11703	8	133	3/8 x 1 x 2 1/8"	.56
A11705	12	135	1 1/2 x 1 1/2 x 2 1/8"	.76
A11706	16	136	1 x 1 1/2 x 2 1/8"	.85

300 V. Peak. 250 V. D.C. Working

No.	Mfd.	Type	Size	NET
A11708	8	123	3/8 x 1/2 x 2 1/8"	\$0.47
A11710	12	125	3/8 x 1 x 2 1/8"	.59
A11711	16	126	1/2 x 1 x 2 1/8"	.65

CN — COMMON-NEGATIVE

No.	Mfd.	Type	Size	NET
A11716	8-8	152	7/8 x 1 1/4 x 2 3/4"	\$0.88

300 V. Peak. 250 V. D.C. Working

No.	Mfd.	Type	Size	NET
A11720	8-8	142	7/8 x 1 1/2 x 2 3/4"	\$0.76

CM — SEPARATE SECTIONS

No.	Mfd.	Type	Size	NET
A11724	4-4	170	3/4 x 1 1/2 x 2 1/2"	\$0.71
A11725	4-8	171	3/4 x 1 1/2 x 2 1/2"	.79
A11726	8-8	172	1 1/2 x 1 x 2 1/2"	.88
A11727	4-4-4	173	1 3/8 x 1 x 3"	1.06
A11728	8-8-8	175	1 1/2 x 1 1/4 x 3"	1.29

300 V. Peak. 250 V. D.C. Working

No.	Mfd.	Type	Size	NET
A11729	4-4	160	3/4 x 1 1/2 x 2 1/2"	\$0.53
A11730	4-8	161	3/4 x 1 1/2 x 2 1/2"	.68
A11731	8-8	162	1 1/2 x 1 1/4 x 2 1/2"	.76
A11732	16-16	164	1 3/8 x 1 x 2 1/2"	1.06
A11733	8-8-8	165	1 3/8 x 1 x 3"	1.15

ROUND METAL CAN UNITS

Sealed against humidity and temperature. With 8" leads, nut, and washer.



RS — SINGLE-SECTION

No.	Mfd.	Wkg. V.	Type	Size	NET
A11779	8	450	213	2 3/4 x 1"	\$0.82
A11780	12	450	215	2 3/4 x 1"	.82
A11781	16	450	216	3 1/4 x 1"	.83
A11783	8	250	203	2 3/4 x 1"	.56
A11784	12	250	205	2 3/4 x 1"	.65
A11785	30	250	207	3 1/2 x 1"	.88
A11795	50	250	208	3 3/4 x 1 1/2"	1.62
A11796	50	25	200	2 3/4 x 1"	.62

RN — COMMON-NEGATIVE

No.	Mfd.	Wkg. V.	Type	Size	NET
A14900	8-8	250	232	3 x 1"	\$0.85
A14901	4-8	450	241	3 x 1"	.85

RM — SEPARATE-SECTION

No.	Mfd.	Wkg. V.	Type	Size	NET
A14902	4-8	450	261	3 x 1 3/4"	\$0.85
A14903	8-8	450	262	3 x 1 3/4"	.94
A14904	8-8-8	450	265	4 x 1 3/4"	1.35
A14905	8-8	250	252	3 x 1 1/2"	.85
A14906	8-8-8	250	255	3 1/2 x 1 1/2"	1.23
A14907	8-8-16	250	257	3 1/2 x 1 1/2"	1.38
A14908	8-16-16	250	259	3 1/2 x 1 1/2"	1.53

FABRICATED PLATE TYPE BB TUBULAR ELECTROLYTICS

A single unit condenser housed in a hermetically sealed metal tube. Each unit has bare wire leads. Insulating cover is furnished.



Compact size, without sacrifice of quality or performance, provides ideal condensers for varied applications. A practical replacement in cases where a section of a multiple unit becomes defective. Excellent for set-building.

IN METAL CONTAINERS

No.	Mfd.	Wkg. V.	Type	Size	NET
A14910	4	450	60	1 7/8 x 1 1/2"	\$0.32
A14911	8	450	61	1 7/8 x 1 3/8"	.35
A14912	10	450	62	1 7/8 x 1 3/8"	.41
A14913	12	450	63	1 7/8 x 1 3/8"	.44
A14914	16	450	64	1 7/8 x 1 3/8"	.53
A14915	8	350	41	1 7/8 x 1 3/8"	.32
A14916	12	350	42	1 7/8 x 1 3/8"	.47
A14917	16	350	44	1 7/8 x 1 3/8"	.47
A14918	8	250	31	1 7/8 x 1 3/8"	.29
A14919	12	250	33	1 7/8 x 1 3/8"	.38
A14920	16	250	34	1 7/8 x 1 3/8"	.44
A14921	8	150	21	1 7/8 x 1 1/2"	.26
A14922	12	150	22	1 7/8 x 1 1/2"	.29
A14923	16	150	24	1 7/8 x 1 1/2"	.32
A14924	20	150	25	1 7/8 x 1 1/2"	.35
A14925	40	150	27	1 7/8 x 1 1/2"	.41
A14926	10	50	13	1 7/8 x 1 1/2"	.26
A14927	10	25	12	1 7/8 x 1 1/2"	.24
A14928	25	25	15	1 7/8 x 1 1/2"	.29

STANDARD FABRICATED PLATE CAPACITORS

Improved in every respect as to size, power factor, life, and mechanical construction. Stable characteristics withstand extreme heat and humidity. These condensers are very popular in the original equipment field and are now carried in stock in a wide variety of universal ratings. Mounting ears simplify installation. Note: Capacities at same voltage are shown separated by comma; hyphen indicates change in voltage.



FPS — SINGLE UNITS

No.	Mfd.	Wkg. V.	Type	Size	NET
A14930	10	450	142	2 x 3 3/4"	50c
A14931	15	450	143	2 x 1"	62c
A14932	20	450	144	2 x 1"	73c
A14933	15	300	127	2 x 3 1/4"	56c
A14934	20	250	120	2 x 3 1/4"	59c
A14935	30	150	113	2 x 3 1/4"	44c

FPD — DUAL UNITS

No.	Mfd.	Wkg. V.	Type	Size	NET
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UNIVERSAL, WET AND PAPER CONDENSERS

P. R. MALLORY & CO. Inc.
MALLORY



TUBULAR BY-PASS UNITS

TYPE TP



Small in size for easy installation. Have moisture-proof seal for long life. Non-inductive

provide low RF impedance regardless of rating. The 200, 400, 600, and 1000 Volt condensers are wax-impregnated and wax-sealed at the ends, the accepted standard construction for maximum protection from atmospheric conditions. The 1600 Volt condensers are oil-impregnated and wax-sealed, providing extra safety factor for voltage applications higher than usually recommended for the wax impregnated type.

600 VOLT DC TYPES

No.	Mfd.	NET	No.	Mfd.	NET
A13115	.0001		A13129	.025	12c
A13116	.00025		A13130	.03	12c
A13117	.0005		A13131	.04	12c
A13118	.007		A13132	.05	12c
A13119	.008		A13133	.06	15c
A13120	.001		A13134	.075	15c
A13121	.002	9c	A13138	1	15c
A13122	.003		A13139	1.5	18c
A13123	.004		A13140	2	21c
A13124	.005		A13141	2.5	21c
A13125	.006		A13135	3	26c
A13126	.01	12c	A13136	4	29c
A13127	.015	12c	A13142	5	29c
A13128	.02	15c	A13143	1.0	47c

400 VOLT DC TYPES

No.	Mfd.	NET	No.	Mfd.	NET
A13150	.01		A13161	.25	15c
A13151	.015		A13162	.3	15c
A13152	.02	9c	A13160	4	21c
A13153	.03		A13162	5	21c
A13154	.04		A13163	1.0	29c
A13155	.05		A13164	01-01	21c
A13156	.06	12c	A13165	05-05	24c
A13157	.1	12c	A13166	-1-1	26c
A13158	.2	15c			

200 VOLT DC TYPES

No.	Mfd.	NET	No.	Mfd.	NET
A13167	.05	9c	A13170	5	21c
A13168	.1	12c	A13171	1.0	29c
A13169	.25	15c	A13172	.25-.25	29c

1000 VOLT DC TYPES

No.	Mfd.	NET	No.	Mfd.	NET
A13200	.001		A13209	.015	18c
A13201	.002		A13210	.02	18c
A13202	.003		A13211	.03	21c
A13203	.004		A13212	.04	21c
A13204	.005	12c	A13213	.05	21c
A13205	.006		A13214	.06	21c
A13206	.007		A13215	.075	24c
A13207	.008		A13216	.1	24c
A13208	.01	18c			

1600 VOLT DC TYPES

No.	Mfd.	NET	No.	Mfd.	NET
A13218	.0005		A13226	.008	
A13219	.001		A13227	.01	
A13220	.002		A13228	.015	21c
A13221	.003		A13229	.02	
A13222	.004	21c	A13230	.03	
A13223	.005		A13231	.04	24c
A13224	.006		A13232	.05	26c
A13225	.007				

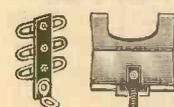
WE-WET ELECTROLYTICS



Low power factor and efficient self-heating characteristics make these units ideal for all heavy-duty filter requirements. Rated conservatively at 450 Volts D.C. working voltage, 500 Volts D.C. peak. Built for efficient, long-life service. Supplied with nut for mounting upright.

No.	Mfd.	Type	Size	NET
A13480	4	450	1 x 3 1/2"	\$0.47
A13481	8	850	1 x 3 1/2"	.56
A13482	8	850	1 1/2 x 3 1/2"	.68
A13483	12	1250	1 1/2 x 4 1/2"	.79
A13484	16	1650	1 1/2 x 4 1/2"	.88
A13485	20	2050	1 1/2 x 4 1/2"	1.00
A13486	30	3050	1 1/2 x 4 1/2"	1.12
A13487	40	4050	1 1/2 x 4 1/2"	

MOUNTING HARDWARE



A13490. Type A-016. Terminal connector, as illustrated at left. NET EACH 3c

A13491. Type 104-1. Special mounting bracket for mounting can units on chassis. Illustrated at right. NET 6c

No.	Mfd.	Type	Size	NET
A13492		Ring clamp for 1" round unit	1" can	3c
A13493		Ring clamp for 1 1/8" round unit	5c	
A13494		Ring clamp for 1 1/2" round unit	6c	
A13495		Washer for clamp mtg. 1" can	3c	

UNIVERSAL REPLACEMENT CONDENSERS

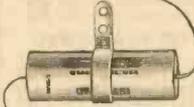
TYPES UR AND SR

ALLIED carries a complete selection of Mallory replacement condensers. Each unit is compact in size and mechanically strong. From the listing below a replacement can be selected for practically every set requirement or as original equipment in set-building. All units are moisture-proof and rated conservatively for efficient long-life service. Have low power factor and high leakage resistance. All units are clearly coded. If in doubt, refer to the M-V Encyclopedia for condenser recommendations and order from listing below.



No.	Mfd.	Wkg. V.	Type	Container	Size	NET
A13410	8-8	250-300	180	Carton	1 1/8 x 1 1/2 x 2 1/4"	\$0.76
A13411	3-2-1-1	450	181	Can	1 3/8 x 2 3/4"	1.23
A13412	5-25-10	150	182	Carton	1 3/8 x 1 3/8 x 2 3/8"	.79
A13413	4-4-4	150	183	Carton	1 1/2 x 1 1/2 x 2 1/4"	1.47
A13414	8-8-8, 5-5	200, 25	188	Tube	1 1/2 x 3 1/2"	1.47
A13415	8-8-8, 5-5	200, 25	189	Carton	1 1/4 x 1 1/2 x 3"	
A13416	8-8-8-8	250	190	Carton	1 1/4 x 1 1/2 x 3"	1.53
A13417	8-8-8-8	450	191	Carton	1 3/8 x 1 3/8 x 3"	1.73
A13418	20-20	150	192	Carton	1 3/8 x 1 3/8 x 2 3/8"	1.06
A13419	5-8-16	150	193	Carton	1 1/2 x 1 1/2 x 2 1/2"	1.06
A13420	8-12	300	601	Carton	1 1/4 x 1 1/2 x 2 1/2"	.91
A13421	3-5-6	300-300-12	604	Carton	1 1/8 x 1 3/8 x 2"	.88
A13422	8-8	350	605	Can	1 1/2 x 3 1/2"	.91
A13423	8-8-25	400-400-25	609	Can	1 3/8 x 2 1/2"	1.23
A13424	8-8-25	400-400-25	610	Carton	1 3/8 x 1 3/8 x 2 3/8"	1.12
A13425	6-6	250	633	Tube	1 1/4 x 3"	1.03
A13426	12-8	400	194	Tube	1 1/2 x 3 1/2"	1.03
A13427	16-12	200	194	Tube	1 1/2 x 3 1/2"	.91
A13901	6-4-6	300-300-25	602	Can	1 3/4 x 2 5/8"	1.00
A13902	8-30	300-30	603	Tube	1 1/4 x 4 3/8"	.79
A13903	6-6	350	606	Carton	1 3/8 x 3/8 x 2 7/8"	.79
A13904	6-4-6	300-300-12	607	Carton	1 3/8 x 1 3/8 x 2 7/8"	.91
A13905	65	300-300-25	608	Tube	1 1/2 x 2 1/2"	1.03
A13906	8-8-25	350-300-25	611	Carton	2 x 2 x 2 1/2"	1.09
A13907	8-8, 16-16	350, 100	612	Can	1 3/8 x 4 3/4"	1.71
A13908	16-30-16	200	613	Carton	1 3/4 x 1 1/2 x 4 1/2"	1.62
A13909	8, 8-8, 12-12	450-250-25	614	Carton	1 3/8 x 2 3/8 x 2 1/2"	1.71
A13910	8-8-8	450-450-350	615	Can	1 3/8 x 4 3/4"	1.32
A13911	8-8-8	450-450-350	616	Can	1 3/8 x 4 3/4"	1.32
A13912	16-16-10	150-150-25	617	Can	1 3/8 x 2 1/2"	1.15
A13913	5-20-10-5	150-150-150-25	618	Carton	1 1/2 x 1 1/2 x 2 1/2"	1.32
A13914	5-5	35	619	Carton	3/4 x 3/4 x 1 1/2"	.44
A13915	30-10	150	620	Carton	1 1/2 x 1 1/2 x 3 1/2"	.91
A13916	8-16-5-5	200-200-50-50	621	Tube	1 1/2 x 3 1/2"	1.96
A13917	8-8-12	350-350-25	622	Carton	1 3/8 x 2 3/8"	1.03
A13918	16-2-2-25	450-450-450-25	623	Tube	1 1/2 x 3 1/2"	1.53
A13919	4-4-10-4	300-300-150-25	624	Carton	1 3/8 x 1 3/8 x 3 1/2"	1.21
A13920	8-8-5-5	450-450-50-50	625	Carton	1 3/8 x 1 1/2 x 4 1/2"	1.29
A13921	8-4-4-12	450-300-150-25	626	Carton	1 3/8 x 1 3/8 x 3 1/2"	1.21
A13922	4-4	450-150-25	627	Carton	1 1/2 x 2 1/2"	1.09
A13923	8-8-10	300-300-25	628	Can	1 1/2 x 2 1/2"	1.09
A13924	6-4-10	350-300-25	629	Carton	1 1/4 x 1 3/8 x 4 1/4"	.97
A13925	16-8-10	150-150-25	630	Carton	1 1/2 x 1 1/2 x 4"	1.03
A13926	4-12-16	150	631	Tube	1 1/4 x 1 1/2 x 2 1/4"	1.09
A13927	6-4-16	350-350-25	632	Tube	1 x 3 3/4"	.44
A13928	12	150	635	Can	1 x 2 1/2"	.56
A13929	2-4	50	636	Can	1 x 2 1/2"	.65
A13930	8-8-20	300-350-25	637	Tube	1 3/8 x 2 1/2"	1.09
A13931	4-8	450	638	Can	1 3/8 x 3 1/2"	.85
A13932	4-8	450	639	Can	1 3/8 x 3 1/2"	.85
A13933	16-8-10-10	450-450-25-25	640	Tube	1 1/2 x 5"	1.71
A13934	12-8-8-10	450-450-350-25	641	Tube	1 3/8 x 5"	1.50

METAL-CASED OIL-IMPREGNATED CONDENSERS



Impregnated in oil and housed in hermetically sealed leak-proof metal tubes. Ideal for vibrator buffers and high-voltage coupling applications. All units are externally insulated with cardboard

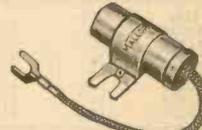
tubes and supplied with a mounting strap which may be removed if not required.

No.	Mfd.	Type	Size	NET
A14965	.002	370	1 1/4 x 3 3/8"	26c
A14966	.003	377	1 1/4 x 3 3/8"	26c
A14967	.005	371	1 1/4 x 3 3/8"	26c
A14968	.008	372	1 1/4 x 3 3/8"	29c
A14969	.01	373	1 1/4 x 3 3/8"	32c
A14970	0125	374	1 1/4 x 3 3/8"	35c
A14971	.015	375	1 1/4 x 3 3/8"	35c
A14972	.02	376	1 1/4 x 3 3/8"	35c

No.	Mfd.	Type	Size	NET
A14973	.0025	458	1 1/8 x 3 3/8"	35c
A14974	.005	459	1 1/8 x 3 3/8"	38c
A14975	.0075	460	1 1/8 x 3 3/8"	41c
A14976	.01	461	1 1/8 x 3 3/8"	44c
A14977	.0125	462	2 1/4 x 1 1/2"	44c
A14978	.015	463	2 1/4 x 1 1/2"	44c
A14979	.02	464	2 1/4 x 1 1/2"	47c
A14980	.03	465	2 1/4 x 1 1/2"	50c
A14981	.04	466	2 1/4 x 1 1/2"	50c
A14982	.05	467	2 1/4 x 1 1/2"	53c

AUTO RADIO CONDENSERS

The condensers listed below have been designed for various auto radio applications. Types AG443, AG444, AG450, AG451, AG452, and AG453 are for noise suppression at the generator oil and gas gauges, etc. Type AM454 is for suppression at the ammeter and other instruments. Types FM441 and FM442 are especially designed for Ford generators. Type DL445 is a dome-light interference suppressor and includes an RF choke. Types RF481 and RF482 are for general vibrator hash and noise suppression and have a very low RF impedance.



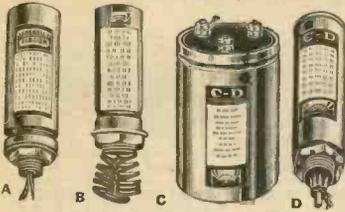
No.	Mfd.	Type	Size	NET
A14985	.05	AG443	3/8 x 1 3/8"	29c
A14986	.25	AG444	3/8 x 1 3/8"	29c
A14987	.5	AG450	3/8 x 2"	29c
A14988	.5	AG451	3/8 x 2"	29c
A14989	1.0	AG452	1 2 3/8"	41c
A14990	.5*	AG453	3/4 x 3/4"	44c
A14991	.5	AM454		



CORNELL-DUBILIER CONDENSERS



ELECTROLYTIC CONDENSERS IN ALUMINUM CANS



ALUMINUM CAN TYPES

TYPE EB — FIG. A.

525 Volts D.C. Peak —
450 Volts D.C. Working

High grade inverted type dry electrolytic condensers. Internal sections are completely insulated from metal container. Single mounting type with insulated wire leads. Exceptional stability, minimum leakage current.

No.	Mfd.	Size	NET
A14500	8	4 1/2 x 1 3/8"	\$0.62
A14501	12	1 x 2 1/2"	.82
A14502	16	4 1/2 x 1 1/2"	.81
A14503	8-8	4 1/2 x 1 1/2"	.94

TYPE KR "COMPACT" — FIG. B.

Compact etched-foil dry electrolytic condensers. May be easily installed on the smallest chassis. Multiple units have separate leads.

450 Volts D.C. Working

No.	Mfd.	Size	NET
A14504	8	1 x 2 1/2"	\$0.62
A14505	8	1 1/2 x 3"	.82
A14506	8-8	1 1/2 x 4 1/8"	.94
A14507	8-16	1 1/2 x 4 1/8"	1.32
A14508	8-8-8	1 1/2 x 4 1/8"	1.35

600 Volts D.C. Working

No.	Mfd.	Size	NET
A14510	4	1 3/8 x 3 1/2"	\$1.09
A14511	8	1 3/8 x 4 1/2"	1.53
A14512	16	1 1/2 x 4 1/2"	2.06

TYPE EA — FIG. C.

Single and multiple section electrolytics in aluminum containers. Mount in any position by means of clamping rings supplied. Can is common negative. 450 Volts D.C. working.

No.	Mfd.	Size	NET
A14515	8	1 3/8 x 4 1/8"	\$0.62
A14516	5-15	2 1/2 x 4 1/8"	1.35
A14517	8-8	2 1/2 x 4 1/8"	1.06
A14518	8-16	2 1/2 x 4 1/8"	1.38
A14519	8-8-8	3 x 4 1/8"	1.59
A14520	9-9-18	3 x 4 1/8"	2.20
A14521	9-9-18-18	3 1/2 x 4 1/8"	3.09

WET ELECTROLYTICS

TYPE EY — FIG. D. 500 V. D.C. PEAK

Ideal for all heavy-duty work where dry units give trouble. Low power factor and leakage current. Self-healing. Stud and nut mounting.

No.	Mfd.	Size	NET
A14524	4	3 1/2 x 1 3/8"	\$0.47
A14525	6	4 1/2 x 1 3/8"	.56
A14526	8	4 1/2 x 1 3/8"	.56
A14527	10	4 1/2 x 1 1/2"	.62
A14528	12-10	4 1/2 x 1 1/2"	.68
A14529	16	4 1/2 x 1 1/2"	.79
A14530	18	4 1/2 x 1 1/2"	.88

NEW TYPE 'UP' ETCHED PLATE ELECTROLYTICS

Etched foil condensers in smallest size yet developed. Have unusually low power factor and extremely low leakage. Easy to install by means of convenient mounting flange. If condenser must be insulated, use bakelite mounting flange, A14545, at 3c extra. Sizes: *1n 1" x 3"; can; others in 1x2" can.

No.	Mfd.	Wkg. V.	NET
A14532	10	450	\$0.50
A14533	20	450	.73
A14534	*40	450	1.18
A14535	30	250	.68
A14536	12-10	450	.76
A14537	*20-20	450	1.29
A14538	20-20	250	1.00
A14539	20-20	150	.71
A14540	30-30	150	.79
A14541	20-20-20	150	1.06
A14542	10-10-20	450/350/25	1.12
A14543	15-15-20	250/25	1.18
A14544	30-20/20	150/25	.97



TYPE BR "BLUE BEAVER" TUBULAR ELECTROLYTICS

Ideal for use where space is at a premium. Patented hi-formation process gives higher voltage breakdown.

No.	Mfd.	Wkg. V.	Size	NET
A14575	8	500	7/8 x 1 1/2"	\$0.50
A14576	16	500	1 x 2 1/2"	.76
A14550	4	450	5/8 x 1 7/8"	.32
A14551	8	450	3/4 x 2"	.35
A14552	12	450	2 x 7/8"	.44
A14553	16	450	2 1/2 x 7/8"	.53
A14554	20	450	2 1/2 x 1"	.59
A14555	4	350	5/8 x 1 7/8"	.29
A14556	8	350	5/8 x 1 1/4"	.32
A14557	12	350	3/4 x 2"	.41
A14558	16	350	3/4 x 2"	.47
A14559	4	250	5/8 x 1 1/4"	.26
A14560	8	250	5/8 x 1 7/8"	.29
A14561	12	250	3/4 x 2"	.38
A14562	16	250	3/4 x 1 1/2"	.44
A14563	20	250	3/4 x 1 1/2"	.47
A14564	40	250	1 1/2 x 2 1/2"	.56
A14565	4	150	5/8 x 1 1/4"	.24
A14566	8	150	5/8 x 1 1/4"	.26
A14567	12	150	5/8 x 1 7/8"	.29
A14568	16	150	5/8 x 1 7/8"	.32
A14569	20	150	5/8 x 1 7/8"	.35
A14570	40	150	3/4 x 2"	.41
A14577	5	50	3/8 x 1 1/4"	.24
A14578	10	50	3/8 x 1 1/4"	.26
A14579	20	50	3/8 x 1 7/8"	.29
A14580	25	50	3/8 x 1 7/8"	.32
A14581	50	50	3/8 x 1 7/8"	.41
A14571	10	25	5/8 x 1 1/4"	.24
A14582	20	25	5/8 x 1 1/4"	.26
A14572	25	25	5/8 x 1 1/4"	.29
A14583	50	25	5/8 x 1 1/4"	.35

NEW DUAL BEAVERS

No.	Mfd.	Wkg. V.	Size	NET
A14585	8-8	450	1 x 2 1/2"	\$0.62
A14586	8-16	450	1 1/2 x 3 1/4"	.79
A14587	8-16	250	7/8 x 2 1/4"	.62
A14588	16-16	250	1 x 2 1/4"	.73
A14589	8-8	150	3/4 x 2 1/4"	.47
A14590	8-16	150	1 1/2 x 2 1/4"	.50
A14591	20-20	150	7/8 x 2 1/2"	.62
A14592	10-10	50	3/8 x 2 1/2"	.50
A14593	10-10	25	5/8 x 2 1/4"	.41

COMPACT DRY ELECTROLYTICS

TYPE JR

Dependable, inexpensive, compact dry electrolytics. For use in limited space; make ideal replacements in the smallest metal sets. Suitable for every type of radio service job where space is limited. In silver-coated containers; sealed against humidity. With adjustable mounting feet.



525 V. D.C. PEAK, 450 V. D.C. WKG.

No.	Mfd.	Size	NET
A14600	8	2 1/2 x 1 1/8 x 1 1/8"	\$0.56
A14601	12	2 1/2 x 1 1/8 x 1"	.76
A14602	8-8	2 1/2 x 1 1/8 x 1 1/8"	.88
A14603	8-16	2 1/2 x 2 x 1 1/2"	1.12

250 V. D.C. PEAK, 200 V. D.C. WKG.

No.	Mfd.	Size	NET
A14604	8	2 1/2 x 1 x 3/8"	\$0.47
A14605	12	2 1/2 x 1 1/8 x 1 1/8"	.59
A14606	16	2 1/2 x 1 1/8 x 1 1/8"	.65

NEW "SILVER MIKE" CONDENSERS

TYPE 2R. New molded silver-plated mica condensers for push-button circuits or wherever high stability is required. 1000 Volts D.C. test. Size: 1 1/8" x 3/8".

No.	Mfd.	EACH	No.	Mfd.	EACH
A14610	.00005	\$0.24	A14617	.0004	\$0.44
A14611	.00007	.24	A14618	.0005	.44
A14612	.0001	.24	A14619	.0007	.59
A14613	.00015	.29	A14620	.0008	.59
A14614	.0002	.29	A14621	.0009	.65
A14615	.00025	.29	A14622	.001	.73
A14616	.0003	.44			



"DWARF" TUBULAR PAPER CONDENSERS

TYPE DT

These units are exceptionally reliable, non-inductive, small, all-purpose condensers. They are wax-impregnated and triple-sealed against moisture. High melting-point wax ends add strength and give extra protection to these condensers. Low power factor and high D.C. 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 2 1/2" tinned leads.

400 VOLTS D.C. WORKING VOLTS

No.	Mfd.	NET	No.	Mfd.	NET
A14625	.01		A14632	.06	\$0.12
A14626	.015		A14633	.1	.12
A14627	.02		A14634	.2	.15
A14628	.025		A14635	.25	.15
A14629	.03		A14636	.5	.21
A14630	.04		A14637	1.0	.29
A14631	.05				

600 VOLTS D.C. WORKING VOLTS

No.	Mfd.	NET	No.	Mfd.	NET
A14639	.0001		A14659	.025	\$0.12
A14640	.00025		A14650	.03	.12
A14641	.0005		A14651	.04	.12
A14642	.001		A14652	.05	.12
A14643	.002		A14653	.06	.15
A14644	.003		A14654	.1	.15
A14645	.004		A14660	.2	.21
A14646	.005		A14655	.25	.21
A14647	.006		A14661	.3	.26
A14648	.01		A14656	.5	.29
A14658	.015		A14657	1-1	.38
A14649	.02				

1000 VOLTS D.C. WORKING VOLTS

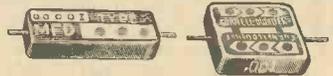
No.	Mfd.	NET	No.	Mfd.	NET
A14480	.001		A14489	.015	\$0.18
A14481	.002		A14490	.02	.18
A14482	.003		A14491	.03	.21
A14483	.004		A14492	.04	.21
A14484	.005		A14493	.05	.21
A14485	.006		A14494	.06	.21
A14486	.007		A14495	.075	.24
A14487	.008		A14496	.1	.24
A14488	.01				

VIBRATOR CONDENSERS

2000 V. D.C. PEAK — 1600 V. WKG.

Oil-impregnated and processed paper tubular condensers especially suited for use in vibrator units. Withstand high peak and surge voltages.

No.	Mfd.	EACH	No.	Mfd.	EACH
A14686	.0008		A14692	.02	\$0.21
A14687	.0025		A14693	.03	.21
A14688	.005		A14694	.04	.24
A14689	.007		A14695	.05	.26
A14690	.0075		A14696	.1	.35
A14691	.0				



MOLDED BAKELITE 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. D.C. (on units up to .003 mfd.; 600 V. test on higher capacities).

TYPE 5W — 5/8" x 3/8" x 3/16"

No.	Mfd.	EACH	No.	Mfd.	EACH
A14664	.00025	\$0.12	A14669	.00015	\$0.09
A14665	.0003	.12	A14670	.0002	.09
A14666	.0004	.09	A14671	.00025	.12
A14667	.00005	.09	A14672	.0004	.12
A14668	.0001	.09	A14673	.0005	.12

TYPE 1W — 3/4" x 3/4" x 3/16"

No.	Mfd.	EACH	No.	Mfd.	EACH
A14674	.0008	\$0.12	A14680	.004	\$0.26
A14675	.001	.15	A14681	.005	.29
A14676	.0015	.15	A14682	.006	.35
A14677	.002	.18	A14683	.008	.38
A14678	.0025	.21	A14684	.01	.44
A14679	.003	.24			

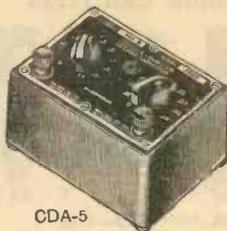


CORNELL - DUBILIER NOISE FILTERS - TESTERS

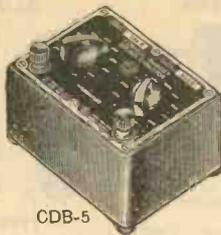


NEW ACCURATE DIRECT-READING CAPACITOR DECADES

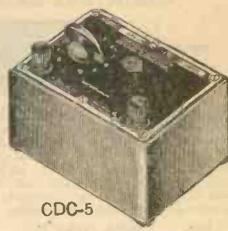
These Cornell-Dubilier Capacitor Decades provide accurate standards over a wide range of capacity. Ideal for Servicemen, Lab Technicians, Schools, etc. May be used individually, or in groups of the three decades as shown, for maximum flexibility. When grouped together, the three decades give a range from .0001 mfd. to 11.111 mfd. By connecting a decade in the desired circuit, one can easily obtain the correct value of capacity merely by rotating a selector switch. All this can be done while the set is hot. Guessing and searching for replacement values are eliminated, thereby saving time, money and unnecessary fuss. See description below for specifications of individual decades. Each decade is furnished with calibration chart giving exact capacity values for all scale markings, extending use to more precise measurements.



CDA-5



CDB-5



CDC-5

MODEL CDA-5

A direct-reading decade having a range from .0001 mfd. to .011 mfd. in steps of .0001 mfd. Two scales are provided to cover the range: .0001 to .001 mfd. on one scale and .001 to .01 mfd. on another scale. Employs highest quality mica condensers with $\pm 5\%$ tolerance. Decade can be used continuously in circuits where voltage does not exceed 220 V. A.C. or 600 V. D.C. Will prove indispensable for finding exact replacement values. Decade is housed in attractive walnut bakelite case completely insulated for safe operation. Supplied with insulated binding posts. Size: $3\frac{3}{4} \times 5 \times 2\frac{1}{2}$ ". Shpg. wt., 3 lbs. **\$5.29**
A10160. NET.

MODEL CDB-5

This decade has a range from .01 mfd. to 1.1 mfd. in steps of .01 mfd. Has two scales with individual selector switches: one scale from .01 to .1 mfd. and the other scale from 1 to 10 mfd. All values read directly from clearly embossed scales. Uses high quality oil-paper condensers with $\pm 5\%$ tolerance. May be used continuously in circuits where voltage does not exceed 220 V. A.C. or 600 V. D.C. Extremely compact for convenient use in wide variety of applications. Built into attractive walnut bakelite case and supplied with insulated bakelite binding posts. Size: $3\frac{3}{4} \times 5 \times 2\frac{1}{2}$ ". Shpg. wt., 3 lbs. **\$5.29**
A10161. NET.

MODEL CDC-5

An accurate decade providing the higher condenser values from 1.0 mfd. to 10.0 mfd. in steps of 1.0 mfd. Has one direct-reading scale and one selector switch for the entire range. Uses high quality oil-paper condensers with $\pm 5\%$ tolerance. May be used continuously in circuits where voltage does not exceed 220 V. A.C. or 600 V. D.C. A time and money saver. Valuable in selecting the correct filter condenser in service work or set-building. Entire unit housed in attractive walnut bakelite case. Insulated bakelite binding posts conveniently located for easy connections. Size: $3\frac{3}{4} \times 5 \times 2\frac{1}{2}$ ". Shpg. wt., 5 lbs. **\$9.41**
A10162. NET.



BF-50 CAPACITOR ANALYZER

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 electrolytic condensers, including A.C. motor starting types. Employs a Wien bridge, assuring permanent accuracy of capacity and power factor. Reading is not affected by line voltage variations. It is the only instrument of its type which provides a complete test for all condensers. Has amplifier for adequate sensitivity. Has colored, easy-reading, accurately-calibrated linear scale with push-button switches. D.C. voltage supply and visual eye leakage indicator. For 110-120 V., 50-60 cycles. Supplied in an attractive walnut cabinet with cord and test leads. Less tubes (12A7 and 6E5). Size: $6\frac{1}{2} \times 12\frac{1}{2} \times 9\frac{3}{4}$ ". Shpg. wt., 12 lbs. **\$24.40**
A10175. NET.

BN CAPACITOR BRIDGE

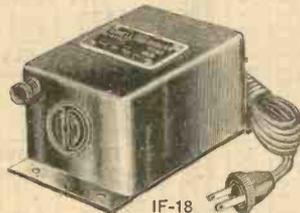


An ultra-compact condenser bridge for Servicemen and Technicians. Quickly and accurately measures capacity of paper, mica, electrolytic, and air condensers from .00001 mfd. to 50 mfd. Employs a 6AF6G as a bridge detector. Built into an attractive walnut bakelite case, size $3\frac{3}{4} \times 5 \times 2\frac{1}{2}$ ". This condenser bridge is the most compact and useful instrument of its type ever offered to the service field. Supplied with test leads and instructions, less tubes (12A7 and 6AF6G). For 110-120 V., 60 cycles. Shpg. wt., 3 lbs. **\$9.70**
A10176. NET.

NEW "QUITONE" INTERFERENCE FILTERS



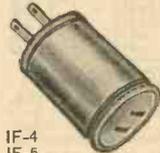
IF-21



IF-18



IF-19



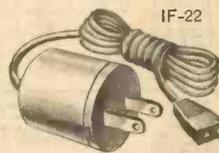
IF-4



IF-6



IF-20



IF-22

FOR USE AT RADIO RECEIVER

MODEL IF-18. An efficient all-wave, capacitive-inductive, sectional-band type filter for use in connection with electrical appliances when interference conditions are severe. Has binding post for making ground connection. In walnut bakelite case. 110V. AC-DC at 5 amps. $5 \times 3\frac{1}{2} \times 2\frac{1}{2}$ ". Shpg. wt., 6 lbs. **\$2.94**
A5582. NET.

MODEL IF-4. Ideal for use with small radio receivers, such as AC-DC midget sets, etc., where noise level is not too severe. Connects in power line between the radio receiver plug and wall receptacle. 110 V. A.C.-D.C. at 5 amps. Attractive walnut finished case. Housed in metal shell, $2 \times 1\frac{1}{2}$ " dia. Shpg. wt., 1 lb. **44.**
A7560. NET.

FOR USE AT APPLIANCES

MODEL IF-19. An efficient capacitive-inductive type filter for use where interference is severe. Has binding post for ground connection. Mounting ears permit filter to be set in any convenient position. In walnut bakelite case. 110 V. AC-DC at 5 amps. Size: $4 \times 2\frac{1}{2} \times 2\frac{1}{2}$ ". Shpg. wt., 4 lbs. **\$2.35**
A7561. NET.

MODEL IF-6. For all types of home electrical appliances where interference is of moderately low intensity. Installed between appliance and power line with short return lead which reduces radiation. 110 V. A.C.-D.C. at 5 amps. Walnut finish. Size: $2 \times 1\frac{1}{2}$ " dia. Shpg. wt., 1 lb. **73.**
A7562. NET.

MODEL IF-21. All-wave capacitive-inductive filter for electric shavers, barber clippers, etc. 110 V. AC-DC at 1.6 amps. Walnut finish. $4 \times 2\frac{1}{2} \times 2\frac{1}{2}$ ". Shpg. wt., $2\frac{1}{2}$ lbs. **\$1.47**
A7563. NET.

MODEL IF-20. A plug type filter for small electrical appliances where interference is very low. 110 V. A.C.-D.C. at 5 amps. Bakelite case; walnut finish. Shpg. wt., 1 lb. **29.**
A7564. NET.

MODEL IF-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., 1 lb. **44.**
A7565. NET.

MODEL IF-22. Special filter with 6 foot rubber line cord and plug for electric shavers. 110 V. A.C.-D.C. Shpg. wt., 1 lb. **A7566.** For Schick, Knapp Monarch, etc. **A7567.** For Packard, Reming-Don-Rand, etc. NET EACH **\$1.03**

MODEL IF-7 FOR INDUSTRIAL USE

An ideal filter designed to block severe radio interference caused by motors, generators, elevators, diathermy machines, oil burners, etc. Especially suitable for factory, office, and apartment building installations. This Quietone consists of low-loss coils and highest quality capacitors that will correct noise conditions in both Broadcast and Short-Wave receivers. A heavy-duty, capacitive-inductive filter for single phase, 110-120 V. A.C.-D.C. at 5 amps. Housed in a heavy steel cut-out box, with hinged cover, finished in grey enamel. Provided with knockout holes for BX or conduit connectors. Has holes punched for wall mounting. Size: $6 \times 6 \times 4$ ". Shpg. wt., 9 lbs. **\$4.41**
NET



AEROVOX CONDENSERS

AEROVOX ELECTROLYTIC CONDENSERS MINIATURE DANDEES



Type PRS. New tubular midgets in hermetically-sealed aluminum cans. For use in crowded spaces in midget, A.C.-D.C., and auto radios, and for general servicing. Have special varnished paper jacket insulation; ends of capacitor spun over can rim to eliminate possibility of shorts. Properly vented. With handy 3/8" tinmed wire leads.

No.	Mfd.	Wkg. V.	Size	NET
A13370	4	450	1 1/2 x 1 1/2	31c
A13371	8	450	1 1/2 x 1 1/2	35c
A13372	12	450	1 1/2 x 2 1/2	44c
A13373	16	450	1 1/2 x 2 1/2	52c
A13374	20	450	1 1/2 x 2 1/2	59c
A13366	8-8	450	1 x 2 1/2	62c
A13367	8-16	450	1 x 2 1/2	76c
A13375	4	350	3/4 x 2 1/2	29c
A13376	8	350	3/4 x 2 1/2	31c
A13377	12	350	3/4 x 2 1/2	47c
A13378	16	350	3/4 x 2 1/2	53c
A13379	4	250	9/16 x 1 1/2	26c
A13380	8	250	9/16 x 1 1/2	29c
A13381	12	250	9/16 x 1 1/2	38c
A13382	16	250	9/16 x 2 1/2	44c
A13394	8-8	200	3/4 x 2 1/2	47c
A13395	8-16	200	3/4 x 2 1/2	59c
A13396	16-16	200	7/8 x 2 1/2	68c
A13382	4	150	3/4 x 1 1/2	24c
A13383	8	150	3/4 x 1 1/2	26c
A13384	12	150	3/4 x 1 1/2	29c
A13385	16	150	3/4 x 1 1/2	31c
A13386	24	150	3/4 x 2 1/2	33c
A13387	30	150	3/4 x 2 1/2	38c
A13388	40	150	3/4 x 2 1/2	41c
A13357	8-8	150	3/4 x 2 1/2	47c
A13358	8-16	150	7/8 x 2 1/2	50c
A13359	20-20	150	7/8 x 2 1/2	62c
A13389	10	50	3/4 x 1 1/2	26c
A13390	25	50	3/4 x 1 1/2	31c
A13360	50	50	3/4 x 1 1/2	47c
A13361	10-10	50	3/4 x 1 1/2	59c
A13362	10-10	50	3/4 x 1 1/2	47c
A13363	10	25	3/4 x 1 1/2	24c
A13364	25	25	3/4 x 1 1/2	29c
A13365	50	25	3/4 x 1 1/2	38c
A13366	100	25	3/4 x 1 1/2	53c
A13367	10-10	25	3/4 x 1 1/2	35c



MIDGET CARDBOARD DRY ELECTROLYTICS

Space-saver midget units. Conservatively rated to stand up under hardest service. Encased in heavy containers; thoroughly impregnated and sealed. With adjustable mounting brackets and flexible leads. Each section of multiple units has separate leads.

TYPE PBS-450

No.	Mfd.	Size	NET
A6750	4	1/2 x 3/4 x 2 1/2	\$0.38
A6751	8	3/4 x 1 x 2 1/2	.44
A6752	8	1 1/4 x 1 1/2 x 2 1/2	.55
A6754	12	1 1/2 x 1 1/2 x 3 1/2	.76
A6755	16	1 1/2 x 1 1/2 x 2 1/2	.85
A6756	4-4	1 1/4 x 1 1/2 x 2 1/2	.70
A6757	8-8	1 1/2 x 1 1/2 x 2 1/2	1.29
A6758	8-8-8	1 1/2 x 1 1/2 x 2 1/2	1.29

TYPE PBS-250

No.	Mfd.	Size	NET
A6760	2	1/2 x 3/4 x 2 1/2	\$0.32
A6761	4	3/4 x 1 x 2 1/2	.38
A6762	8	1 1/4 x 1 1/2 x 2 1/2	.47
A6764	12	1 1/2 x 1 1/2 x 3 1/2	.55
A6765	16	1 1/2 x 1 1/2 x 2 1/2	.61
A6759	20	1 1/4 x 1 1/2 x 2 1/2	.73
A6763	25	1 1/2 x 1 1/2 x 3 1/2	.71
A6763	30	1 1/2 x 1 1/2 x 3 1/2	.82
A6766	4-4	1 1/4 x 3/4 x 2 1/2	.52
A6767	8-8	1 1/2 x 1 1/2 x 2 1/2	.75
A6768	8-16	1 1/2 x 1 1/2 x 2 1/2	.83
A6769	8-8-8	1 1/2 x 1 1/2 x 2 1/2	1.11

TYPE PBS-50

No.	Mfd.	Size	NET
A6981	5	1/2 x 3/4 x 2 1/2	\$0.29
A6982	10	3/4 x 1 x 2 1/2	.38
A6983	25	1 1/2 x 1 1/2 x 3 1/2	.47

TYPE PBS-25

No.	Mfd.	Size	NET
A6984	5	1/2 x 3/4 x 2 1/2	\$0.29
A6985	10	3/4 x 1 x 2 1/2	.29
A6986	25	1 1/2 x 1 1/2 x 2 1/2	.38

ALUMINUM CAN TYPES



TYPE GL INVERTED—FIG. A

525 V. D.C. Peak—450 V. D.C. Working. Inverted mounting, aluminum can condensers suitable for use in any filter circuit. Threaded stem, 1/4" diam., fitted with locking nut. All units equipped with 8" flexible insulated color-coded leads. Multiple section units have two leads brought out from each section. Metal can is insulated from condenser sections.

TYPE GL-450—SINGLE SECTION

No.	Mfd.	Size	NET
A6415	4	1 1/2 x 3	\$0.50
A6416	8	1 1/2 x 4	61c
A6417	12	1 1/2 x 4	82c
A6418	16	1 1/2 x 4	91c

TYPE 2GL450—DOUBLE SECTION

No.	Mfd.	Size	NET
A6419	4-4	1 1/2 x 4	\$0.76
A6420	4-8	1 1/2 x 4	.85
A6421	8-8	1 1/2 x 4	.94
A6422	8-16	1 1/2 x 4	1.18

TYPE 3GL450—TRIPLE SECTION

No.	Mfd.	Size	NET
A6423	4-4-4	1 1/2 x 3	\$1.12
A6424	8-8-8	1 1/2 x 4 1/2	1.41

TYPE GLS MIDGET—FIG. B

No.	Mfd.	Size	NET
A6942	4	1 x 2 1/2	49c
A6943	8	1 x 2 1/2	61c
A6944	12	1 x 3 1/2	82c
A6945	16	1 x 4	91c

TYPE E UNIVERSAL MTG.—FIG. C

No.	Mfd.	Size	NET
A6785	5-15	2 1/2 x 4 1/2	\$1.35
A6789	8-8	2 1/2 x 4 1/2	1.05
A6784	8-16	2 1/2 x 4 1/2	1.38
A6786	8-8-8	3 x 4 1/2	1.59
A6787	9-9-18	3 x 4 1/2	2.20

TYPE PG WET ELECTROLYTICS

TYPE PG—Fig. D. 500 V. Peak, 450 V. Wkg. For heavy-duty work where dry units give trouble. Have self-healing feature for longer life. With stud and nut inverted mounting.

No.	Mfd.	Size	NET
A6845	8	1 1/2 x 3 1/2	\$0.56
A6798	10	1 1/2 x 3 1/2	.62
A6846	12	1 1/2 x 3 1/2	.67
A6847	16	1 1/2 x 4	.79
A6799	18	1 1/2 x 4	.82
A6848	20	1 1/2 x 4 1/2	.88
A6849	30	1 1/2 x 4 1/2	1.00
A6843	35	1 1/2 x 4 1/2	1.03
A6844	40	1 1/2 x 4 1/2	1.12

TYPE PGM MIDGETS

Type	Mfd.	Size	NET
A13284	4	1 x 3 1/2	\$0.47
A13285	8	1 x 3 1/2	.56
A13286	12	1 x 4 1/2	.68
A13287	8	1 x 3 1/2	\$0.47
A13288	16	1 x 4 1/2	.53
A13289	24	1 x 4 1/2	.59
A13290	35	1 x 4 1/2	.68
A13291	40	1 x 4 1/2	.71
A13292	8	1 x 3 1/2	\$0.41
A13293	16	1 x 3 1/2	.47
A13294	24	1 x 3 1/2	.53
A13295	35	1 x 4 1/2	.62
A13296	40	1 x 4 1/2	.68

TYPE 1450 CONDENSERS

Accurate mica-tin-foil condensers in bakelite cases. Handy soldering lugs. Working voltage up to 500 volts D.C. Tested at 1000 volts. Sealed against changes in humidity.



No.	Mfd.	NET	No.	Mfd.	NET
A6893	.001	21c	A6904	.005	26c
A6894	.002	24c	A6905	.006	32c
A6895	.0025	26c	A6906	.01	41c
A6896	.003	29c	A6907	.02	55c



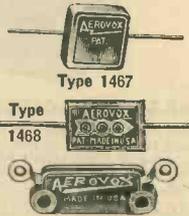
CARTRIDGE CONDENSERS

Conservatively rated compact non-inductive paper condensers. Sealed in wax-impregnated paper tubes; with wire leads. Dual section units have common lug for easy mounting.

400 Volt		Cap. Mfd.	600 Volt	
No.	NET EACH	No.	NET EACH	
A6800	.001	A6818	9c	
A6801	.002	A6819		
A6802	.003	A6820		
A6803	.004	A6821		
A6804	.005	A6822		
A6805	.006	A6823		
A6806	.01	A6824		
A6807	.015	A6825		
A6808	.02	A6826		
A6809	.03	A6827		
A6810	.05	A6828		12c
A6811	.12c	A6829		12c
A6812	.15c	A6830		21c
A6813	.25c	A6831		29c
A6814	.26c	A6832		29c
A6815	.41c	A6833		50c
A6885	.001	A6793		
A6886	.002	A6794		
A6887	.003	A6795		
A6888	.005	A6796		12c
A6889	.006	A6796		12c
A6890	.01	A6837		18c
A6891	.015	A6838		18c
A6892	.02	A6839		18c
A6893	.03	A6840		18c
A6894	.05	A6841		21c
A6895	.1	A6842		29c
A6896	.15c			
A6897	.29c			

BAKELITE MICA CONDENSERS

Compact "postage-stamp type" condensers. Ideal for both high-frequency and audio by-pass circuits. Sealed in bakelite cases against all climate and temperature conditions. Selected ruby mica dielectric.



Cap. Mfd.	Type 1467	Type 1468	Type 1460	NET EACH
.0004	A6850	A6864	A6875	
.0005	A6851	A6865	A6876	
.00075	A6852	A6866	A6877	
.001	A6853	A6867	A6878	
.0015	A6854	A6868	A6879	
.002	A6855	A6869	A6880	
.0025	A6856	A6870	A6881	
.0035	A6857	A6871	A6882	
.005	A6858	A6872	A6883	
.01	A6859		A6884	15c
.015	A6860		A6885	15c
.02	A6861		A6886	18c
.025	A6862		A6887	21c
.03			A6888	21c



TUBULAR ELECTROLYTICS

TYPE PR. For replacement or construction work where space is not important factor. Ideal for by-pass and filter use. With 2 1/2" leads.

No.	Mfd.	Wkg. V.	Size	NET
A6911	2	450	3/4 x 2 1/2	38c
A6912	5	100	3/4 x 2 1/2	32c
A6913	10	100	3/4 x 2 1/2	41c
A6914	20	100	3/4 x 2 1/2	53c
A6915	5	50	3/4 x 2 1/2	29c
A6916	10	50	3/4 x 2 1/2	38c
A6917	20	50	3/4 x 2 1/2	44c
A6918	50	50	1 1/2 x 2 1/2	70c
A6919	50	50	3/4 x 2 1/2	44c
A6920	50	50	3/4 x 2 1/2	44c
A6921	5-5	25	3/4 x 2 1/2	44c
A6922	5	25	3/4 x 2 1/2	44c
A6923	10	25	3/4 x 2 1/2	44c
A6924	20	25	3/4 x 2 1/2	44c
A6925	20	25	3/4 x 2 1/2	44c
A6926	25	25	3/4 x 2 1/2	44c
A6927	50	25	1 1/2 x 2 1/2	56c
A6928	5-5	25	3/4 x 2 1/2	44c
A6929	10-10	25	3/4 x 2 1/2	44c

Highest Quality

KNIGHT TRANSFORMERS

KNIGHT FILTER CHOKES



Open-type construction, with leads. For any standard AC receiver. Excellent for servicing and radio building requirements. Size: 1 1/2"x2"x3 1/2".

No.	Henries	M.A.	Ohms	NET
A11650	25	25	850	68c
A11651	25	60	325	65c
A11652	20	80	200	71c
A11653	15	100	160	89c
A11654	750	5	*3500	89c

*Plate coupling choke for detector tube. High impedance at audio frequency.

KNIGHT AC-DC CHOKES

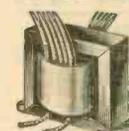


For any 4 or 5 tube midset. Semi-shielded. Rating at 15 Hz. at 40 M.A. Horizontal mounting, 6" insulated leads. Size: 1 1/2" high, 2 1/8" long, 1 1/8" deep. Mtg. centers, 2 1/2".

No.	Ohms	No.	Ohms
A11635	200	A11639	400
A11636	250	A11640	450
A11637	300	A11641	500
A11638	350	A11642	550

NET EACH.....**29c**

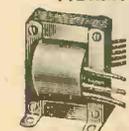
TUBE TESTER TRANSFORMER



An ideal transformer for use in "Build-Your-Own" Test Equipment. Also excellent for replacement purposes and for modernizing old equipment. Furnishes these filament voltages for tube testers: 1.5, 2.0, 2.5, 3.3, 5.0, 6.3, 7.5, 15, 25 and 30 Volts at 2.0 Amps. Also has high voltage winding to supply 250 Volts A.C. at 40 M.A. for plate voltage of tube under test. Completely impregnated. Size, 2 1/2" high, 4 1/2" wide, 2 1/4" deep; with 3/8" mounting centers. Shpg. wt., 3 lbs.

A11672. List. \$3.50. NET.....**\$1.95**

KNIGHT AUTO RADIO VIBRATOR TRANSFORMER



A newly developed compact transformer designed to meet the demand for a high-grade replacement transformer for auto radio vibrators. Delivers 250 volts at 50 M.A. in conjunction with any standard vibrator. Upright type, 3 1/2" high, mtg. centers, 2"x1 1/2". A low-cost replacement unit.

A11671. NET.....**99c**

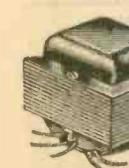
KNIGHT 6.3 VOLT FILAMENT TRANSFORMER



Designed primarily for use with S.W. low-power transmitters and receivers. Convenient strap-mounting style. Can be used for test bench voltage source, bell-ringing circuits, experimental setups in schools, etc. Will withstand normal overloads without harm. Rated at 6.3 V., 1.5 ampere secondary. Primary, 115 V., 60 cycles. With coded 6" leads and wiring guide. Mtg. centers 2 1/2". Shpg. wt., 2 lbs.

A11666. NET.....**59c**

KNIGHT FIELD EXCITER POWER TRANSFORMER

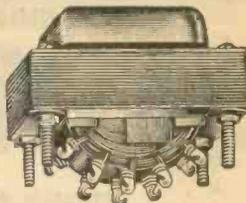


This efficiently-built power transformer is designed to deliver 160 volts at 200 M.A. out of filter, with an 83 or 523 rectifier tube. Will furnish full excitation for either one or two 1000 ohm speaker fields in parallel connection. Primary 115 volts 50-60 cycles. Sec. 200 volts at 2 Amps.

225 M.A.—C.T. and 5 volts at 4 Amperes. Size: 2 1/2"x3 1/4"x3 1/4" inches. Shpg. wt., 4 1/2 lbs. A11673. NET.....**\$1.95**

KNIGHT HIGH-QUALITY POWER TRANSFORMERS

Splendid values in carefully designed and well-constructed compact power transformers. Only fine quality materials are used throughout. Conservatively rated for long-lived efficient service. Several types insure selection of proper transformer for practically all set requirements. Terminal arrangement provides for sub-panel wiring. It is not necessary to bring leads through solid mounting. Ideal for use in limited space. These transformers are a boon to the serviceman, providing low-cost, high-grade units for replacement purposes. Use them regularly for bigger profits. Keep a stock on hand for all emergencies.



FOR 2.5 VOLT TUBES

4 TUBE SETS

Primary: 115 V. at 50/60 cycles. Sec.: 650 V. at 40 M.A.—C.T.; 2.5 V. at 3.75 A.—C.T.; 5 V. at 2 A. Mtg.: 2 1/2"x2". Wt., 2 lbs. A6055. NET.....**71c**

5 TUBE SETS

Primary: 115 V. at 50/60 cycles. Sec.: 650 V. at 45 M.A.—C.T.; 2.5 V. at 5 A.—C.T.; 5 V. at 2 A. Mtg.: 2 1/2"x2". Wt., 2 lbs. A6056. NET.....**86c**

6 TUBE SETS

Primary: 115 V. at 50/60 cycles. Sec.: 675 V. at 50 M.A.—C.T.; 2.5 V. at 7.5 A.—C.T.; 5 V. at 2 A. Mtg.: 2 1/2"x2". Wt., 3 lbs. A6057. NET.....**93c**

7 TUBE SETS

Primary: 115 V. at 50/60 cycles. Sec.: 700 V. at 70 M.A.—C.T.; 2.5 V. at 3.5 A.—C.T.; 5 V. at 3 A.; 2.5 V. at 7.5 A. Mtg.: 3 1/4"x2 1/4". Wt., 4 lbs. A6058. NET.....**\$1.56**

8 TO 10 TUBE SETS

Primary: 115 V. at 50/60 cycles. Sec.: 700 V. at 90 M.A.—C.T.; 2.5 V. at 10.5 A.; 2.5 V. at 4 A.—C.T.; 5 V. at 3 A. Mtg.: 3 1/4"x2 1/4". Wt., 4 lbs. A6059. NET.....**\$1.79**

FOR 6.3 VOLT TUBES

4 TUBE SETS

Primary: 115 V. at 50/60 cycles. Sec.: 650 V. at 40 M.A.—C.T.; 6.3 V. at 1.6 A.—C.T.; 5 V. at 2 A. Mtg.: 2 1/2"x2". Wt., 2 lbs. A6060. NET.....**73c**

5 TUBE SETS

Primary: 115 V. at 50/60 cycles. Sec.: 650 V. at 45 M.A.—C.T.; 6.3 V. at 1.8 A.—C.T.; 5 V. at 2 A. Mtg.: 2 1/2"x2". Wt., 2 lbs. A6061. NET.....**86c**

6 TUBE SETS

Primary: 115 V. at 50/60 cycles. Sec.: 675 V. at 50 M.A.—C.T.; 6.3 V. at 2 A.—C.T.; 5 V. at 2 A. Mtg.: 2 1/2"x2". Wt., 4 lbs. A6062. NET.....**\$1.03**

7 TUBE SETS

Primary: 115 V. at 50/60 cycles. Sec.: 700 V. at 75 M.A.—C.T.; 6.3 V. at 3.2 A.—C.T.; 5 V. at 3 A. Mtg.: 3 1/4"x2 1/4". Wt., 4 1/2 lbs. A6063. NET.....**\$1.58**

8 TO 11 TUBE SETS

Primary: 115 V. at 50/60 cycles. Sec.: 700 V. at 100 M.A.—C.T.; 6.3 V. at 4 A.—C.T.; 5 V. at 4 A.—C.T.; 5 V. at 3 A. Mtg.: 3 1/4"x2 1/4". Wt., 6 lbs. A6064. NET.....**\$1.98**

KNIGHT AUDIO AND OUTPUT TRANSFORMERS

SPECIAL AUDIO



A11656. 3 to 1 ratio. 1 1/2"x1 1/2"x3". Mounting centers: 2 1/2". NET.....**65c**

A11657. Push-pull input. Open frame type. 1 1/2"x1 1/2"x2 1/2". Mtg. Ctrs.: 2 1/2". NET.....**65c**

A11663. New "Tiny" 3:1 Audio. 1 1/2" H, 1 1/2" W, 1 1/2" D. Mtg. centers, 2". NET.....**59c**

UNIVERSAL AUDIO

A compact, high quality audio transformer for any A.C. or battery set or amplifier. Couples any tube to single or double grid. Has Universal mtg. bracket. Ratio 3-1. Size: 2x 1 1/2"x2 1/2". Shpg. wt. 2 lbs. A11644. NET.....**69c**



OUTPUT TRANSFORMERS

To feed into 8 to 15 ohm voice coil. Open frame. A11658. Single 43, 45, 2A3, 6A5, 25A6, 25A7G. 1 1/2"x2 1/4"x1 1/4".

A11659. Single 31, 42, 2A5, 6F6, 6N6, 6A4, 6A6. 1 1/4"x1 1/4"x1 1/4". NET EACH.....**49c**

A11660. Push-pull 43, 45, 2A3, 6A5, 25A6, 25A7G. 2x1 1/4"x3 1/4".

A11661. Push-pull 31, 42, 2A5, 6F6, 6N6, 6A4. 2x1 1/4"x3 1/4". NET EACH.....**49c**

KNIGHT MIKE TRANSFORMERS

OPEN TYPE



For single or double button microphone. Tapped primary. Open frame type. 1 1/2"x1 1/2"x 3". Mtg. center, 2 1/2". A11655. NET.....**52c**

SHIELDED TYPES



A6050. Single button coupling transformer. Turn ratio, 1 to 64; impedance ratio, 1 to 4000. For single button carbon mike to tube input. Fully shielded.

A6051. Two button type. To couple any double button carbon microphone to single grid. Turn ratio, 1 to 45; impedance ratio, 1 to 2000. NET EACH.....**\$1.32**

UNIVERSAL OUTPUT

This versatile transformer couples practically any power tubes, either single or push-pull, to any dynamic or magnetic speaker. Has Universal mounting bracket. Size, 2x1 1/2"x2 1/2". Shpg. wt., 2 lbs. A11645. YOUR PRICE.....**69c**

UNIVERSAL P.P. INPUT

May be used to couple any single plate to any combination of single or push-pull tubes. Universal mounting bracket. Size: 2"x1 1/4"x2 1/4". Shpg. wt., 2 lbs. A11646. NET.....**69c**

STANDARD AUDIOS

Ideal for replacement purposes. Open type construction. Size: 3 1/4"x1 1/2"x 1 1/2". Mtg. centers: 2 1/2". Shpg. wt., 2 lbs. each. A11647. 3 1/2" - 1. Straight audio. 1 plate to 1 grid. NET EACH.....**71c**



A11648. 3-1. Push-pull input. 1 plate to 2 grids. NET EACH.....**71c**

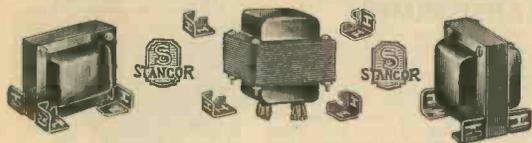
A11649. Push-pull interstage transformer. Handles 2 plates to 2 grids. NET EACH.....**71c**

HEAVY-DUTY UNIVERSAL OUTPUT

A heavy duty, unshielded output transformer for universal use. Accurately matches any single or P.P. output stage to any speaker voice coil. Size: 2 1/4"x2 1/4"x1". A11005. NET.....**85c**

SPECIAL TRANSFORMERS

STANCOR UNIVERSAL POWER REPLACEMENTS



Stancor's Universal Power Transformers will serve the greatest number of sets. All filament windings C.T. For 110-115 V. 50-60 cycles. With static shield. (For 110-115 V. 25 cycles, add 60%. For 220, 230 V. 50-60 cycles, add 15%. For 220-230 V. 25 cycles, add 75%.)

UNIVERSAL REPLACEMENTS FOR 2.5 VOLT TUBES

Cat. No.	Mfg. Type	Plate		Fil. 1		Fil. 2		Fil. 3		Mtg. Ctrs.	Wt.	NET
		Volts	Mils.	V.	A.	V.	A.	V.	A.			
A12915	P6001	650	40	5	2.0	2.5	4.0	2	2 1/2"	3 lbs.	\$1.38	
A12916	P6002	700	50	5	2.0	2.5	7.25	2	2 1/2"	3 lbs.	1.76	
A12917	P6003	700	70	5	3.0	2.5	9.0	2 1/2	2 1/2"	4 lbs.	1.91	
A12918	P6004	700	90	5	3.0	2.5	12.5	2 1/2	2 1/2"	6 lbs.	2.35	
A12919	P6005	700	70	5	3.0	2.5	9.0	2 1/2	2 1/2"	6 lbs.	2.35	
A12920	P6006	700	120	5	3.0	2.5	12.5	2 1/2	2 1/2"	6 lbs.	2.94	
A12921	P6007	800	110	5	3.0	2.5	15.0	2 1/2	2 1/2"	6 lbs.	2.94	

UNIVERSAL REPLACEMENTS FOR 6.3 VOLT TUBES

Cat. No.	Mfg. Type	Plate		Fil. 1		Fil. 2		Fil. 3		Mtg. Ctrs.	Wt.	NET
		Volts	Mils.	V.	A.	V.	A.	V.	A.			
A12985	P6297	480	40	5	2.0	6.3	2.0	2	2 1/2"	3 lbs.	\$1.32	
A12984	P6010	650	40	5	3.0	6.3	2.0	2	2 1/2"	3 lbs.	1.47	
A12985	P6011	750	70	5	3.0	6.3	2.5	2	2 1/2"	3 lbs.	1.76	
A12986	P6012	700	90	5	3.0	6.3	3.5	2 1/2	2 1/2"	5 lbs.	2.20	
A12987	P6013	700	120	5	3.0	6.3	3.5	2 1/2	2 1/2"	5 lbs.	2.50	
A12988	P6014	750	150	5	3.0	6.3	5.0	2 1/2	2 1/2"	6 lbs.	3.38	

COMBINATION 2.5 AND 6.3 VOLT TUBES

Cat. No.	Mfg. Type	Plate		Fil. 1		Fil. 2		Fil. 3		Mtg. Ctrs.	Wt.	NET
		Volts	Mils.	V.	A.	V.	A.	V.	A.			
A12982	P6008	750	180	5	3.0	6.3	3.3	2.5	6.0	2 1/2 x 2 7/8"	7 lbs.	\$3.53
A12986	P6296†	750	85	5	3.0	6.3	3.5	2.5	9.0	2 1/2 x 2 3/8"	4 lbs.	2.65
A12987	P6296†	750	125	5	3.0	6.3	4.0	2.5	12.0	2 1/2 x 2 3/8"	6 lbs.	2.94
A12988	P6291†	750	150	5	3.0	6.3	5.0	2.5	12.0	3 1/2 x 2 3/8"	6 lbs.	3.67

*Also 5 V. and 2.5 V. at 3.5 A. winding. †Also 5 V., 2.5 V. at 4 A., and 2.5 V. at 1.75 A. windings. ‡For motors in Push-Button tuning sets. 50-24-18 V. windings.

STANCOR HALF-SHELL POWER TRANSFORMERS

The following half-shell type of transformers are similar to the center illustration above except that the transformers are not shielded at the bottom and have solder lugs instead of wire leads.

POWER TRANSFORMERS FOR 2.5 VOLT TUBES

Cat. No.	Mfg. Type	Plate		Fil. 1		Fil. 2		Fil. 3		Mtg. Ctrs.	Wt.	NET
		Volts	Mils.	V.	A.	V.	A.	V.	A.			
A12930	P-2770	650	40-C.T.	5	2	2.5	4.5 C.T.	2	2 1/2"	3 lbs.	\$1.47	
A12931	P-2868	650	40-C.T.	5	2	2.5	1.75 C.T.	2.5	3.5 C.T.	3 lbs.	1.65	
A12932	P-2869	700	50-C.T.	5	2	2.5	1.75 C.T.	2.5	5.25	2 1/2 x 2 1/8"	3 1/2 lbs.	1.76
A12933	P-2869	700	70-C.T.	5	3	2.5	3.5 C.T.	2.5	7.5	2 1/2 x 3 1/8"	4 lbs.	2.06
A12934	P-2860	700	90-C.T.	5	3	2.5	3.5 C.T.	2.5	9	2 1/2 x 3 1/8"	5 1/2 lbs.	2.35

POWER TRANSFORMERS FOR 6.3 VOLT TUBES

Cat. No.	Mfg. Type	Plate		Fil. 1		Fil. 2		Fil. 3		Mtg. Ctrs.	Wt.	NET
		Volts	Mils.	V.	A.	V.	A.	V.	A.			
A12935	P-2751	650	40-C.T.	5	2	6.3	1.6 C.T.	2	2 1/2"	2 1/2 lbs.	\$1.32	
A12936	P-2771	650	40-C.T.	5	2	6.3	2 C.T.	2	2 1/2"	2 1/2 lbs.	1.47	
A12937	P-947	700	50-C.T.	5	2	6.3	2 C.T.	2	2 1/2"	3 1/2 lbs.	1.62	
A12938	P-948	675	70-C.T.	5	3	6.3	2.5 C.T.	2	2 1/2"	5 lbs.	2.12	
A12939	P-949	700	120-C.T.	5	3	6.3	3 C.T.	2	2 1/2"	6 lbs.	2.35	
A12940	P-955	800	160-C.T.	5	3	6.3	4.5 C.T.	3	3 3/8"	7 lbs.	3.53	



These scientifically designed output transformers are substantially built, using only the highest quality materials. Coils are carefully wound and highly insulated. Laminations are accurately made of fine silicon steel. Unshielded type. Will withstand hard continuous usage. For Class "A" amplification. Operate directly from plates of either single or push-pull power tubes into 6 to 15 ohm V.C. *1, 2, 4 ohm V.C. †Variable 1 to 30 ohm V.C.

SINGLE TYPE OUTPUT TRANSFORMERS

Cat. No.	Mfg. Type	Primary	Size	Mtg. Ctrs.	Wt.	NET
A12957	A2203	45, 71A, 2A3, 25A6, 25A7G, 6Y6G	2x1 1/2 x 2 1/4"	2"	1 lb.	\$0.65
A12958	A2200	45, 71A, 2A3, 25A6, 25A7G, 6Y6G	3 3/8 x 1 1/2 x 2"	2 1/8"	2 lbs.	.82
A12959	A2227	31, 41, 10, 12, 6A4, 6A6, 38, 89, 53, 6N7, 49, 12A7, 19, 79	3 3/8 x 1 1/2 x 2"	2 1/8"	2 lbs.	.82
A12960	A2313	42, 47, 6B5, 6P6, 6N6, 950	2x1 1/2 x 3 1/8"	2 1/8"	2 lbs.	.82
A12961	A3822*	42, 47, 2A5, 6P6, 6N6, 950	1 1/2 x 1 1/2 x 2 1/8"	2"	1 lb.	.68
A12962	A3841	2500, 4000, 5000, 6000, 7000 ohms. 500 Ohm Output.	2 1/8 x 2 1/2 x 2 3/8"	2 1/8"	2 lbs.	2.06

PUSH-PULL TYPE OUTPUT TRANSFORMERS

Cat. No.	Mfg. Type	Primary	Size	Mtg. Ctrs.	Wt.	NET
A12963	A3842	8000, 10,000, 12,000, 14,000 ohms. 500 Ohm Output.	2 1/8 x 2 1/2 x 2 3/8"	2 1/8"	3 1/2 lbs.	\$2.06
A12964	A2201	PP45, 71A, 2A3, 6A5, 25A6, 6Y6G	2x1 1/2 x 2 1/8"	2"	1 lb.	.71
A12965	A2200	PP45, 71A, 2A3, 6A5, 25A6, 6Y6G	2 3/8 x 1 1/2 x 2"	2 1/8"	2 lbs.	.88
A12966	A2231	PP31, 41, 6A6, 38, 6N7, 12A7, 19	2 1/2 x 1 1/2 x 2"	2 1/8"	2 lbs.	.88
A12967	A2312	PP 42, 47, 6B5, 6P6, 6N6, 950	2 1/2 x 3 1/8"	2 1/8"	2 lbs.	.88
A12968	A2285	PP 43, 45, 59, 71, 2A3, 6A5	2 3/8 x 2 1/4"	3 1/8"	3 1/2 lbs.	1.26
A12969	A3830	†6L6, 6V6, 6A3, 46, 6A6, 6N7, Univ.	2 3/8 x 3 1/8 x 2 1/4"	3 1/8"	3 1/2 lbs.	1.76
A12970	A3823	*Single or PP plates, Univ. Output.	1 1/2 x 1 1/2"	2 3/8"	1 1/2 lbs.	.88

KNIGHT AUTOFORMER

An entirely new voltage regulating transformer. Just what every Serviceman really needs to test potential failure in sets. A handy tap switch allows serviceman to overload set being tested at the shop, thus discovering defective parts which were already ready to pop. Provided with 7 tap switch to supply 90, 100, 110, 120, 130, 140 and 150 volts at 150 watts. Female plug provided in transformer shell. 5 foot approved cord and plug. 8 lbs. \$3.25
A11667. NET.

BELL-RINGING TRANSFORMER

This sturdy little Jefferson transformer may be used in the average residence or small apartment building for operating door bells, buzzers, annunciators, and door openers. Secondary, with binding posts, provides 10 volts at 5 watts capacity. Primary may be connected to any 100-120 volt A.C., 50-60 cycle circuit. Primary has heavy insulated lead wires. Ideal as low-voltage supply for experimental work in schools and labs. Size, 2" x 2" x 2 1/2". Shpg. wt., 1 1/2 lbs.
AG033. NET. 58¢

STANCOR UNIVERSAL FIELD-COIL SUBSTITUTE CHOKE

Designed to take the place of the speaker field on the test bench. May also be used as substitute filter choke in sets. D.C. Resistance in Ohms: 3000 tapped @ 2500, 1000, and 750. Resistance and Current Rating: 250, 750, 1000, 1750 ohms @ 60 M.A. continuous or 75 M.A. intermittent duty. 500, 1500, 2000, 2250, 2500, 3000 ohms @ 40 M.A. continuous or 55 M.A. intermittent duty. 3 3/8" x 2 3/8" x 3". Wt., 2 1/2 lbs. With instructions.



A11272. NET. \$2.20

STANCOR UNIVERSAL VIBRATOR TRANSFORMERS

The following five transformers were designed particularly for use in servicing those receivers for which exact duplicates are not available. Use the brackets from the old transformer on these replacement units. Shpg. wt., 2 1/2 lbs. each



No.	Output	NET
A11273.	225 volts at 40 M.A.	\$1.47
A11274.	250 volts at 50 M.A.	1.76
A11275.	280 volts at 65 M.A.	2.35
A11276.	285 volts at 75 M.A.	2.35
A11277.	330 volts at 100 M.A.	2.79

ACME TRANSFORMERS

STEP-DOWN TYPE

Will reduce line voltage of 200-240 volts, 50-60 cycles, to 100-120 volts for operating radios, amplifiers, appliances, etc. Will safely handle any device consuming up to 200 watts. With 8 foot cord, plug, and output receptacle. Wt., 8 lbs.
A11265. NET. \$3.95



VARIABLE VOLTAGE ADJUSTER

Maintains proper operating voltage under varying line conditions. Allows step-up or step-down action. Primary tapped 85-100-115-130-145 volts; sec. 115 volts. With voltmeter. For 50-60 cycle A.C.



A11266.	Capacity 150 Watts. Shpg. wt., 7 lbs.	NET. \$ 7.06
A11268.	Capacity 350 Watts. Shpg. wt., 11 lbs.	NET. 11.76
A11269.	Capacity 500 Watts. Shpg. wt., 14 lbs.	NET. 12.94

NEW VOLTROL

A new type of manual voltage regulator. The Voltrol has a full-range stepless control from 0 to 130 volts. Accurate within 4/10 V. adjustment. Output is practically independent of load. Accurate voltmeter to indicate the secondary voltage. Sturdily constructed in a ventilated case. Output receptacle is on face of case. Input voltage, 115 V. Output cap. 130 V.-5 amps. 6 1/2" x 9 1/2" x 6 1/4". Wt., 9 lbs.
A11270. NET. \$34.25



ANY TRANSFORMER REBUILT LIKE NEW

ALLIED offers a special transformer rebuilding service for all types and makes of transformers. All rebuilding is done efficiently and economically. Exact original specifications are duplicated. We use the original case and laminations. All radio power transformers as well as transformer for battery chargers, neon signs, diathermy machines, amateur radio equipment, etc., are expertly rewound. Send us your defective transformer with a \$2.00 deposit. Include all available data with your order or inquiry, such as model or set, tube lineup, etc.

STANCOR TRANSFORMERS



EXACT DUPLICATE POWER TRANSFORMERS

ALL TYPES AVAILABLE

The units listed below are precision-built transformers which conform exactly to original manufacturer's physical and electrical specifications. No refitting or redrilling necessary—just pull out the defective unit, put in new unit and solder connections. We can supply Exact Duplicate Power Transformers for practically any set. Simply give us full information on the unit you need, and we shall quote prices. Units not shown below can also be shipped promptly upon receipt of your order.



Models	No.	NET
ATWATER KENT		
1 & H-1 & 2, 70 net.	A11507	\$3.76
82, 85	A11843	3.65
856, 976	A11551	2.59
BRUNSWICK		
14, 21, 31, 81, 82	A11512	3.76
10	A11513	2.94
3NC8, 5NC8	A11516	3.12
CLARION		
AC40	A11513	2.94
AC60	A11518	3.76
AC260	A11524	3.53
AC300	A11526	4.06
AC61, AC70	A11561	3.76
CROSLEY		
505, 515, 516, 525	A11501	1.76
534, 635, 655	A11502	1.91
517, 567, 547	A11593	1.62
526, 616, 555	A11594	2.06
GENERAL ELECTRIC		
A-52, A-55	A11503	3.23
E-71, E-72, E-76		
E-79	A11504	2.50
E-61, E-62, E-68	A11596	2.23
E-91, E-95, E-101, E-105, E-106	A11505	3.38
E-105, E-106	A11506	3.38
GRUNOW		
660, 661, 662, 670, 671, 690, 691	A11531	3.76
KNIGHT		
SG8	A11534	4.20

FREE REPLACEMENT GUIDE

New fifth edition of Stancor's replacement transformer guide. A complete 38-page alphabetical listing showing proper replacement transformers, chokes, audios, and output transformers necessary to do a real servicing job. Also shows tube complements of all sets listed. Helps you quickly locate the replacement transformer you need. Select the transformer you want and then order from ALLIED. This useful guide will be sent FREE on request. Write for your copy now. You need this valuable guide in your service work. Keep a copy handy.



ASK FOR THIS FREE GUIDE

Models	No.	NET
MAJESTIC		
20 (unmounted)	A11550	\$3.76
70 chassis (plate)	A11552	2.53
70 chassis (Fil.)	A11553	2.73
90B & 100B chassis	A11555	3.76
90 & 100 chassis	A11556	3.79
151 (unmounted)	A11558	3.76
25, 25B	A11584	3.76
PHILCO		
65	A11569	3.53
70, 270, 370, 470, 570	A11570	3.53
76, 77	A11571	3.53
95, 96, 296	A11578	3.53
511	A11581	3.53
80, 81	A11564	1.91
37-62, 37-610 (122)	A11575	2.50
45, 245	A11508	2.50
86	A11590	2.50
144	A11510	2.50
38-12 (121)	A11520	1.76
264, 265, 60, 66, 89	A11562	2.06
37-11, (1L1-125)	A11500	3.82
90, 90-A (47), 490	A11511	3.53
RCA-RADIOLA-VICTOR		
5T, 6K1, 6T5, 5T4		
5U, 85T5, 85T		
85T1, U-101, U-103	A11522	2.23
D11-2, T-10-3, 9K3,		
T11-8	A11597	3.97
R32, R52, RE45	A11586	3.53
R4, R6	A11587	2.53
R7, R9, RE16	A11587	2.53
R7A, RE16A	A11590	2.53

Models	No.	NET
RCA-RADIOLA-VICTOR (Cont.)		
17, 18, 33, 51	A11515	\$2.53
R60, R62	A11516	3.12
RAD64, 67	A11514	10.00
R78, RAE84	A11517	4.12
C6-2, T6-1, T6-9		
6K-3, 7T-1, 7K-1	A11519	2.47
T4-8A, T4-9A, 4T...	A11523	1.94
R-5, R-5-X	A11525	2.53
140, 140-E, 141, 141-E, 240, AVR-1, 340, 340-E	A11527	3.53
100 (Late), 101, 103, 30, 11-8	A11529	1.76
R-28, R-28P, RE-40, 110, RE-40P, 210, 310, 111, 115	A11530	2.35
SPARTON		
591, 593, 931	A11532	4.12
235, 737	A11533	3.29
589	A11535	4.12
U. S. RADIO & TEL.		
8 (series)	A11536	3.35
26 series Gloritone	A11537	2.29
32	A11538	3.35
ZENITH		
4P-26, 4T-26, 5-S-161	A11539	1.47
715, 755, 757, 975	A11540	3.23
10, 11, 12, 102, 112, 122	A11541	3.79
50, 52, 54, 60, 61, 62, 64, 67, 70, 72, 77	A11542	4.59
273, 410, 420, 473	A11544	4.17

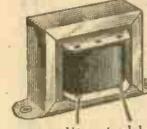
STANCOR FILTER CHOKES



These high-quality, conservatively-rated, chokes are for filter or plate coupling use. The well-insulated windings are vacuum impregnated to insure long-lived efficient service.

A12950, Type C-1706, 5 HENRY at 40 MA. D.C. resistance, 300 ohms. $1\frac{1}{2} \times 2\frac{1}{4} \times 1\frac{1}{2}$. 2" mtg. ctrs. Wt. $\frac{1}{4}$ lb.	53.
A12951, Type C-1707, 7 HENRY at 40 MA. D.C. resistance, 500 ohms. $1\frac{1}{2} \times 2\frac{1}{4} \times 1\frac{1}{2}$. 2" mtg. ctrs. Wt. $\frac{1}{4}$ lb.	53.
A12952, Type C-1003, 30 HENRY at 50 MA. D.C. resistance, 550 ohms. $1\frac{1}{2} \times 3\frac{1}{2} \times 1\frac{1}{2}$. $1\frac{1}{2}$ " $2\frac{1}{2}$ " mtg. ctrs. Wt. 2 lbs.	73.
A12953, Type C-1002, 30 HENRY at 75 MA. D.C. resistance, 400 ohms. $2\frac{1}{4} \times 3\frac{1}{2} \times 1\frac{1}{2}$. $1\frac{1}{2}$ " $3\frac{1}{2}$ " mtg. ctrs. Wt. 2 lbs.	91.
A12954, Type C-1001, 30 HENRY at 110 MA. D.C. resistance, 200 ohms. $2\frac{1}{2} \times 4 \times 2\frac{1}{2}$. $3\frac{1}{2}$ " mtg. ctrs. Wt. 3 lbs.	\$1.09
A12955, Type C-1515, 50 HENRY at 15 MA. D.C. resistance, 750 ohms. $1\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$. $2\frac{1}{2}$ " mtg. ctrs. Wt. $1\frac{1}{2}$ lbs.	59.

STANCOR UNIVERSAL AUDIOS



These uncased audio transformers are noted for their exceptionally flat frequency response curve. They are machine-wound for uniformity and used quality steel laminations. With universal mounting plate and long flexible leads.

A12941, Type A-53, 10,000 ohms plate to single grid. 3:1 ratio. $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$ " Mtg. centers, 2". Wt. $\frac{1}{2}$ lb.	68.
A12942, Type A-63, 10,000 ohms plate to single grid. 3:1 ratio. $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$ " Mtg. centers, 2". Wt. $\frac{1}{2}$ lb.	79.
A12943, Type A-53C, 10,000 ohms plate to P.P. grids. 3:1 ratio. $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$ " Mtg. centers, 2". Wt. $\frac{1}{2}$ lb.	73.
A12944, Type A-63C, 10,000 ohms plate to P.P. grids. 3:1 ratio. $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$ " Mtg. centers, 2". Wt. $\frac{1}{2}$ lb.	85.

FAMOUS JEFFERSON TRANSFORMERS

STAR-SEALED TRANSFORMERS



Outstanding values in high quality transformers for use in any set or amplifier, A.C. or D.C. Laminated core of best silicon steel. Assembled in black enameled sheet steel case with nickelled binding posts. Size, $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ ". Hgt. mtg. ctrs. 2 1/2". Shpg. wt., 2 lbs. each.

high. Mfg. centers 2 1/2".
A6030, 467-113 3 to 1.
A6031, 467-116 5 to 1.
NET EACH \$1.32



MIKE TRANSFORMERS

For use as microphone to grid transformers. Single button types have turn ratio of 1 to 1 to 64; double-button type, 1 to 45. Flat response, 30-7000 cycles. Low-cost high quality units.

A6036, Type 467-413, Single Button; strap mounting. $2\frac{3}{4} \times \frac{1}{4} \times \frac{1}{4}$ ". Shpg. wt. $1\frac{1}{2}$ lbs. NET	94.
A6037, Type 467-414, Double Button; strap mounting. $2\frac{3}{4} \times \frac{1}{4} \times \frac{1}{4}$ ". Shpg. wt. $1\frac{1}{2}$ lbs. NET	\$1.03
A6034, Type 467-261, Single Button; shielded type. $2\frac{1}{2} \times 2\frac{1}{2} \times 3$ ". NET	\$1.32

LINE TO VOICE COIL OUTPUT TRANSFORMER



Several of these transformers may be connected in series or parallel arrangements for coupling a number of speakers to a 500 ohm line. Handles 12 watts. Primary impedance 1000 ohms, tapped 500 and 250 ohms. Secondary is 3, 6, 9 and 15 ohms. $4\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ ". Wt., 3 lbs.

A6026, Type 467-438.
NET \$1.76

PLASTIC-SEALED TRANSFORMERS

Hermetically sealed with a plastic coating which permanently adheres to and seals all exposed surfaces. These transformers are fully climate-proof. Sizes: A— $2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ " B— $3\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$ " C— $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ " D— $4 \times 2\frac{1}{2} \times 2\frac{1}{2}$ " E— $3\frac{1}{4} \times 2\frac{1}{4} \times 2\frac{1}{4}$ ".



AUDIO TRANSFORMERS

No.	Type	Ratio	Down	Size	NET
A6038	467-501	1 to 2	5 D.B.	A	\$0.91
A6039	467-501	1 to 2	2 D.B.	D	1.44
A6020	467-503	1 to 3	3 D.B.	B	1.06
A6021	467-505	1 to 4	3.5 D.B.	E	1.15

P. P. INPUT TRANSFORMERS

No.	Type	Ratio	Size	NET
A6022	467-502	1 to 2	A	\$1.00
A6023	467-504	1 to 3	B	1.15
A6024	467-506	1 to 4	E	1.29
A6027	467-508	1 to 4	D	1.59

OUTPUT TRANSFORMERS

For single 33, 42, 47, etc., or P.P. 71A, 45, etc. Have 7000 ohm primaries.

No.	Type	Watts	Sec. Ohms	Size	NET
A6028	467-509	2	4 to 6	A	.79
A6047	467-510	3 1/2	4 to 6	B	.94

CHOKES

No.	Type	Hy.	Ma.	Ohms	Size	NET
A6048	466-590	20	50	425	B	.88
A6049	466-540	200	18	5000	C	.76

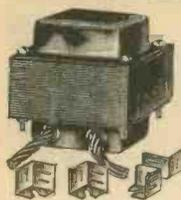
KNIGHT STEP-DOWN TRANSFORMER

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 13 amperes. 50/60 cycles. Handy female receptacle is mounted on side.



A11665, NET \$3.45

THORDARSON High Quality TRANSFORMERS



UNIVERSAL DUPLICATE POWER TRANSFORMERS

A complete line designed to meet the requirements of every Serviceman and Set Builder. For 110 volts, 50-60 cycles. Average wt., 6 lbs. Write for other voltages and frequencies desired.

FREE REPLACEMENT ENCYCLOPEDIA

A11004. Be sure to get this helpful Thordarson Guide at once. Write for it now. It tells what Thordarson transformer to use for replacement in almost any set. You can service 99% of the sets listed in Rider's manuals with the 19 units listed below.



Write for This Book

Cat. No.	Mfg. Type	PLATE		Fil. 1		Fil. 2		Fil. 3		SIZE			NET
		Volts	Mils	V	A	V	A	V	A	H	W	D	
A11223	T13R01	650	40	2.5	4			5	3	3	2 1/2	2 1/2	51.47
A11224	T13R02	700	50	2.5	7.25			5	3	3	2 1/2	2 1/2	1.91
A11225	T13R03	700	70	2.5	9			5	3	3 3/4	2 1/2	2 1/2	2.06
A11226	T13R04	700	100	2.5	12.5			5	3	3 3/4	2 1/2	2 1/2	2.50
A11227	T13R05	700	70	2.5	9	2.5	3.5	5	3	4 1/2	3 3/4	3 3/4	3.09
A11228	T13R06	700	120	2.5	12.5	2.5	3.5	5	3	4 1/2	3 3/4	3 3/4	3.23
A11229	T13R07	800	110	2.5	15	2.5	3.5	5	3	4 1/2	3 3/4	3 3/4	3.82
A11230	T13R08	700	90	6.3	3.3	2.5	6	5	3	3 1/2	2 1/2	2 1/2	2.65
A11231	T13R09	750	180	6.3	3.3	2.5	6	5	3	4 1/2	3 3/4	3 3/4	3.82
A11232	T13R00	550	70	5		2.5	10.5	5	3	3 1/2	2 1/2	2 1/2	2.35
A11233	T13R11	580	50	6.3	2.5			5	3	3	2 1/2	2 1/2	1.47
A11234	T13R12	700	70	6.3	2.5			5	3	3	2 1/2	2 1/2	1.91
A11250	T13R13	700	90	6.3	3.5			5	3	3	2 1/2	2 1/2	2.35
A11251	T13R14	700	120	6.3	4.7			5	3	4 1/2	3 3/4	3 3/4	3.58
A11252	T13R15	750	150	6.3	5			5	4	4 1/2	3 3/4	3 3/4	3.82
A11253	T13R16	800	200	6.3	5.14			5	4	4 1/2	3 3/4	3 3/4	2.35
A11254	T13R17	600	60	6.3	2.5	2.5	7.5	5	3	3 3/4	2 1/2	2 1/2	2.65
A11255	T13R18	700	90	6.3	2.5	2.5	9	5	3	4 1/2	3 3/4	3 3/4	1.38
A11210	T13R19	480	40	6.3	2			5	2	2 1/2	2 1/2	2 1/2	

GENERAL-PURPOSE POWER TRANSFORMERS



A carefully selected listing of general-purpose power transformers. Only the finest materials are used in their construction. Choice of three types shown. All listings 110 V., 50-60 cycles. Add 60% for 25 cycles; 30% for 220 volts. (Include deposit with order.) Typical Thordarson quality is built into each one of these sturdy units to assure perfect performance coupled with long life and truly dependable service.

Cat. No.	Mfg. Type	Fig.	PLATE		Fil. 1		Fil. 2		Fil. 3		SIZE			NET
			Volts	Mils	V	A	V	A	V	A	W	D	H	
A11014	T60R49	2H	560	30	2.5	3.5	5	2			3	2 1/2	2 3/4	\$1.32
A11040	T70R20	2H	600	50	6.3	2	5	2			3 3/4	2 1/2	2 3/4	1.62
A11015	T75R47	2H	610	125	6.3	2	5	2			3 3/4	3 3/4	3 3/4	2.20
A11016	T70R78	2G	680	55	6.3	1.5	5	2			3 3/4	3	4 1/4	1.91
A11017	T70R61	2G	770	70	6.3	2.5	5	2			3 3/4	3 3/4	4 1/4	2.35
A11019	T56R01	2G	650	70	1.5	1	1.5	4	2.5	3	3 3/4	3 3/4	4 1/4	3.23
A11021	T70R62	2G	700	145	6.3	4.5	5	3			3 3/4	3 3/4	4 1/4	3.23
A11022	T56R05	2G	700	110	2.5	9	2.5	3	2.5	3	3 3/4	3 3/4	4 1/4	3.38
A11024	T92R21	2G	800	200	6.3	5	5	3			3 3/4	3 3/4	4 1/4	3.38
A11026	T74R28	2G	880	125	6.3	3.3	5	3	2.5	3	3 3/4	3 3/4	4 1/4	4.41
A11027	T84R81C	2G	720	70	6.3	2.65	5	2			3 3/4	3 3/4	3 3/4	3.82
A11028	T77R63A	2G	750	75	6.3	2.2	5	2			3 3/4	3 3/4	3 3/4	2.06
A11029	T83R77A	2G	660	70	6.3	2.2	5	2			2 3/4	2 3/4	2 3/4	2.20
A11030	T80R92C	2G	840	200	2.5	3	5	3	2.5	1.5	3 3/4	3 3/4	4 1/4	4.41
A11031	T17R30	2G	740	280	6.3	6	5	3			3 3/4	3 3/4	4 1/4	5.00
A11032	T10R21	2G	860	325	6.3	7	5	6			3 3/4	3 3/4	4 1/4	7.35
A11033	T70R21	2H	700	70	6.3	3	5	2	2.5	4	3 3/4	3 3/4	4 1/4	2.06

UNIVERSAL 6 VOLT VIBRATOR TRANSFORMERS

Ideal for replacing defective vibrator transformers in almost all auto radios. Add to your service profits by stocking one each of the transformers listed below. Supplied with mounting feet or may be used with original mounting brackets.

No.	Type	Fig.	D.C. Volts	M.A.	W	D	H	Wt.	List	NET
A12735	T14R33	3C	225	40	2 1/2	2 1/2	3 1/2	3 1/2	\$2.75	\$1.62
A12736	T14R34	3C	250	50	2 1/2	2 1/2	3 1/2	3 1/2	3.25	1.91
A12737	T14R35	3C	260	60	2 1/2	2 1/2	3 1/2	4	3.75	2.20
A12738	T14R36	3C	285	75	2 1/2	2 1/2	3 1/2	4 1/2	4.25	2.50
A12739	T14R37	3C	350	75	2 1/2	2 1/2	3 1/2	4 1/2	4.75	2.79
A12741	T14R38	2G	320	100	3 3/4	3 1/4	4 1/2	5 1/2	5.25	3.09
A12743	T14R39	2B	150	40	2	2	2 1/2	2 1/2	2.75	1.62

115 VOLT 50-60 CYCLE OR 6 VOLT D.C. MODEL

A12740	T14R40	2G	350-6.3	135 C.T.	4.75 A	3 3/4	4	5	10	\$6.50	\$3.82
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FENCE CONTROLLER TRANSFORMER

A11211, Type T-18V10. Recommended for use in Popular Mechanics' Electric Fence kit shown in the September, 1938, issue. Provided with taps on secondary for wet dry weather switch. Shpg. wt., 2 lbs. NET

\$1.76

RADIO SERVICE GUIDE

Newest Edition. Lists transformer units for every service purpose. Every active Serviceman should have a copy of this guide. Select the proper replacement transformer from this guide, and then order from ALLIED.

A11207. NET..... 9c

SOUND AMPLIFIER GUIDE

Contains a world of knowledge pertaining to audio action of metal and glass tube circuits and amplifiers. Covers pre-amplifiers, mixers, etc. One of these manuals should be a part of every Soundman's library.

A11001. NET..... 9c

THORDARSON "CHT" 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.

No.	Type	NET	No.	Type	NET
A12710	T15A66	\$4.26	A12722	T15D85	\$4.41
A12711	T15A67	4.70	A12723	T15D86	4.41
A12712	T15A68	4.70	A12680	T15R04	2.79
A12713	T15A69	4.26	A12681	T15R05	6.17
A12714	T15A70	4.41	A12682	T15R06	5.73
A12715	T15A71	4.26	A12683	T15R07	6.17
A12716	T15A72	4.26	A12684	T15R08	8.08
A12717	T15A73	3.82	A12724	T15R90	5.44
A12718	T15A74	3.82	A12725	T15S91	6.76
A12719	T15A75	4.12	A12726	T15R92	8.08
A12720	T15A65	6.47	A12727	T15S93	8.82
A12689	T15C52	2.84	A12728	T15S94	10.29
A12698	T15C53	3.23	A12729	T15S96	6.47
A12721	T15D87	6.47	A12730	T15S97	8.53

"TRU-FIDELITY" TRANSFORMERS

Completely shielded. Can be used as standards in laboratories, etc. Leads can be taken from top or bottom. Handy terminal board for connection. Size, 2 1/2 x 3 1/2 x 4 1/2". Wt., 4 1/4 lbs. (*Indicates capacitive and inductive balance to center tap, for balanced transmission line.) T90S13, 4x3 1/4 x 4 1/4".



No.	Type	NET	No.	Type	NET
A11173	T90A06	\$10.58	A11177	T90A04	\$8.82
A11174	T90A07	10.29	A11178	T90A05	9.70
A11175	T90A01	9.70	A11179	T90S07	10.58
A11172	T90A10*	9.41	A11180	T90S08	10.29
A11170	T90A00*	10.00	A11169	T90S13*	11.76
A11171	T90A11*	11.76	A11181	T90S12*	8.23
A11176	T90A03	8.82	A11182	T90C09	7.35

THORDARSON TELEVISION TRANSFORMERS

T-16R50. For No. 1801 Kinescope tube and 879 rectifier. Pri. 115 V. 60 cycles. Sec. No. 1—2000 or 3000 V. D.C. at 3 M.A. Sec. No. 2—2 1/2 V. at 1.75 amperes. (Does not supply fil. voltage. See T-16F55 below.) Electrostatic shields.



\$9.41

T-16R51. For use with No. 1800 Kinescope and 878 rectifier. Sec. No. 1—6000 4500 or 3000 V. D.C. 5 M.A. Sec. No. 2—2 1/2 V. at 5 amperes. (No fil. voltage.)

\$10.88

T-16F55. Filament transformer for 1800 or 1801 Kinescopes. Pri. 115 V. 60 cycles. Sec. 2 1/2 V. C.T. at 2.1 amperes.

\$6.47

RCA TELEVISION PARTS

Now available—a complete line of necessary parts for the Experimental Television Receiver. Designed for maximum efficiency in operation when used with the RCA 1800 and 1801 Kinescope tubes. Detailed literature on the following parts will be sent free on request. Ask for RCA Television Folder No. 2853.

No.	RCA No.	Description	NET
A13175	32898	Vertical Osc. Trans.	\$1.05
A13176	32899	Horizontal Osc. Trans.	1.05
A13177	33020	Two Section Filter Cap.	1.59
A13178	33120	Low Voltage Reactor	1.95
A13179	33190	3-Section Filter Cap.	1.50
A13180	33211	High Voltage Rect.	
A13181	33340	Vert. Coupling Cap.	.60
A13182	33341	Horiz. Coupling Cap.	.30
A13183	33390	Power Trans.	8.10
A13184	9857	Yoke	10.50
A13185	9861	Power Trans.	13.50
A13186	9862	Horiz. Output Trans.	10.50
A13187	32900	Vert. Output	3.30
A13188	33018	Filter Cap.	2.25

ALLIED IS FIRST WITH ALL TELEVISION SUPPLIES. We can supply all types of television tubes and parts for experimental purposes as fast as they are released. See page 39 for television tubes.

THORDARSON AUDIOS · OUTPUTS · CHOKES



FIG. 2-F



FIG. 2-E

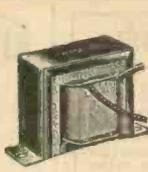


FIG. 3-B

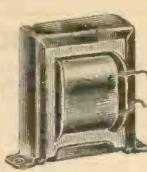


FIG. 2-B



FIG. 3-E



FIG. 2-C



FIG. 2-G

COUPLING TRANSFORMERS

The latest Thordarson high quality transformers, designed for practically every input, output, mixer or line purpose. A transformer for almost any need will be found in the listing below. Complete essential information has been tabulated. Select proper transformer required for the circuit used, by referring to primary and secondary impedances shown. This listing together with a tube chart giving plate impedances of tubes to be used is all that is necessary to select proper matching or coupling transformer. All units are supplied in a variety of mounting arrangements to meet every possible chassis mounting requirement. All units have been carefully designed and are precision-built to rigid, exact specifications. We can supply all other Thordarson transformer types. Send us your order, or write for prices. Average shipping wts., 4 lbs.

TUBE TO LINE (LOW LEVEL)

No.	Type	Fig.	Primary	Secondary	NET
A11038	T14A90	2-F	20,000 CT	500/125	\$1.47
A11039	T14A91	2-F	20,000 CT	200/50	1.47

MIXER OR LINE TO TUBE OR GRID

No.	Type	Fig.	Primary	Secondary	NET
A11056	T58A37	2-F	200 CT	100,000	\$1.32
A11045	T55A16	2-F	200 OR 50	100,000 CT	1.62
A11046	T63A72	2-F	50, 100, 150, 200	100,000	2.20
A11047	T63A71	2-F	200, 400, 600, 800	100,000	2.20
A11048	T61A94	2-F	500, 125	100,000 CT	1.91
A11037	T83A78	2-F	*	400,000 CT	1.32
A11044	T23A57	*	100	400,000	1.32

*Similar to Fig. 2F, but has binding post terminals.

MIKE TO LINE TRANSFORMERS

No.	Type	Fig.	Primary	Secondary	NET
A11053	T70A82	2-F	200 CT	500/125	\$2.06
A11054	T70A83	2-F	100,000	200/50	2.06

OUTPUT COUPLING TRANSFORMERS

No.	Type	Fig.	Primary	Secondary	NET
A11060	T61S25	2-E	Univ. Sing.	500	\$1.91
A11061	T67S01	2-E	Univ. P-P	500	2.06
A11058	T57S02	2-E	Univ.-Sing.-P.P.	Adj. .1 to 29	1.18
A11059	T57S02	2-B	Univ.-Sing.-P.P.	Adj. .1 to 29	1.18
A11063	T67S54	2-F	5,000	4-8-15-500	2.06
A11064	T67S48	2-F	8,000	4-8-15-500	2.06
A11065	T67S52	2-F	5,800	4-8-15-500	2.06
A11066	T67S91	2-F	1,500	4-8-15-500	2.06
A11070	T67S11	2-F	14,000	4-8-15-500	2.06
A11071	T65S94	2-F	8,000	4-8-15-500	2.06
A11072	T75S75	2-F	10,000	4-8-15-500	2.06
A11092	T81S01	2-B	10,000	2-4-8	2.06
A11073	T84S58	2-G	3,800	4-8-15-500	2.06
A11068	T89S75	2-F	6,600	4-8-15-500	2.06
A11069	T89S74	2-F	4,000	4-8-15-500	2.06
A11075	T89S68	2-F	3,300	50 to 500	2.06
A12759	T91S10	2-F	2,500	2-4-8-500	1.76
A12771	T17S11	2-F	8,000*	4-8-15-250-500	2.06
A12772	T17S12	2-F	4,300*	4-8-15-250-500	2.06
A12773	T17S13	2-G	6,600*	4-8-15-250-500	2.06
A12774	T17S14	2-G	5,500*	4-8-15-250-500	2.06
A12775	T17S15	2-G	3,300*	4-8-15-250-500	2.06
A12776	T17S16	2-G	1,900	84 to 500	2.06
A12791	T14S83	3-B	25,000	3 to 6	.73
A12792	T14S84	3-B	8,000	3 to 6	.73
A12793	T14S82	3-B	1,500	3 to 6	.73
A12794	T14S81	3-B	7,000	3 to 6	.73

*Has third winding for obtaining 10% inverse feed-back.

LINE TO SPEAKER VOICE COIL

No.	Type	Fig.	Primary	Secondary	NET
A12776	T60S48	2-E	500 to 3000	Univ. V. C.	\$1.76
A12777	T14S80	2-E	500	2-4-6-8	1.18
A12778	T76S74	2-E	500	84 to 250	1.76
A12779	T53S81	2-D	500 or 250	4-8 or 15	2.35
A12795	T17S17	2-E	500	4-8-16-25-50	3.82

CLASS "B" AND "AB" DRIVERS

No.	Type	Fig.	Primary	Secondary	NET
A12780	T67D50	2-F	6,500	1-79 Class "B"	\$1.62
A12781	T67D47	2-F	8,000	1-6N7 or 53 "B"	1.47
A12782	T67D78	2-F	4,000	2-46 or 59 "B"	1.76
A12783	T81D42	2-F	4,000	2-6F6 or 42 "AB2"	1.91
A12784	T84D59	2-F	70,000*	2-6L6 or 6V6 "AB2"	2.06
A12796	T17D03	2-F	1-6F6*	2-6L6	2.06
A12797	T17D04	2-F	2-6F6*	2-6L6 "A B2"	2.06
A12798	T81D52	2-F	1-6CS, 76	2-6F6, 2-42, "AB"	2.06
A12799	T14D93	3-B	20,000	1-6A6, 6N7 "B"	1.03

*Has split secondary for inverse feed-back.

TRANSCIVER AUDIOS

No.	Type	Fig.	Primary	Secondary	NET
A11090	T54D63	2-F	20,000	1-19 or 2-49 "B"	\$1.32
A11091	T67M69	2-F	10,000	2,700	1.62
A11092	T81S01	2-B	10,000	2-4-8	1.88
A11093	T68S06	2-F	7,000	10-2,000	1.47
A11094	T72S58	2-B	10,000	2,000-50	.97
A11095	T72A59	2-B	5,000-200	100,000	.97

AUDIOS—OUTPUTS—CHOKES

The representative listing below includes the most popular transformers in the famous Thordarson line. These units are supplied in a variety of mountings (as illustrated) for convenience in replacement work. (Figure C mounting type transformers offer two methods of mounting for universal application.) Engineered correctly in every detail. All units carry regular Thordarson guarantee. Individually packed with proper hook-up diagram. If the transformer you require is not listed, send us your order with deposit, and we will supply correct unit promptly.

STRAIGHT AUDIO TRANSFORMERS

Cat. No.	Type	Fig.	Ratio	Size Inches	Lbs.	NET
A11121	T47A25	2-C	3:1	2 3/8 x 2 x 1 1/2	2	\$1.03
A11122	T29A99	2-B	3.2:1	2 3/8 x 2	2 1/4	1.03
A11123	T57A36	2-F	3.2:1	2 3/8 x 2 x 2 1/2	2 1/2	1.18
A11125	T57A38	2-F	3:1	3 x 2 1/2 x 2 1/2	3 1/4	1.62
A11127	T75A74*	2-F	2:1	2 3/8 x 2 x 2 1/2	2 1/2	1.47
A11120	T17A02†	2-F	3:1	2 x 2 1/2 x 2 1/2	3 1/4	1.32

*Has static shield between primary and secondary windings.
†For either straight or push-pull use.

PUSH-PULL INPUTS

Cat. No.	Type	Fig.	Ratio	Size Inches	Lbs.	NET
A11128	T14A29	2-C	3.2:1	2 1/2 x 2 1/8 x 1 1/8	2 1/4	\$1.32
A11129	T33A91	2-B	3.2:1	2 3/8 x 2	2 1/4	1.18
A11130	T57A39	2-F	3.2:1	2 3/8 x 2 x 2 1/4	3 1/2	1.32
A11131	T57A40	2-B	3:1	3 x 2 1/2 x 2 1/2	3 1/2	1.62
A11133	T57A41	2-F	3:1	3 x 2 1/2 x 2 1/2	3 1/4	1.76
A11135	T57A42	2-B	3:1	2 3/8 x 2 x 3	2	1.91

PUSH-PULL INTERSTAGE

Cat. No.	Type	Fig.	Ratio	Size	Lbs.	NET
A11137	T8A70*	2-F	1.5:1	3 x 2 1/2 x 2 1/2	3 1/4	\$1.90
A11136	T13A36	3-B	1:1	2 x 2 1/2 x 1 1/4	2	1.03

*May be used in Class "AB" Amplifiers where some grid current flows.

OUTPUT TRANSFORMERS

FOR .1 TO 29 OHM VOICE COILS

Cat. No.	Type	Fig.	Primary	Size	Lbs.	NET
A12763	T57S01	2-E	Universal for single or P. P. Tubes.	2 3/8 x 2	2 1/4	\$1.18
A12764	T13S38	3-E	Universal for single or P. P. Tubes.	2 x 1 1/2 x 1 1/4	1 1/2	.88
A12765	T13S42*	3-E	Universal for single output tube.	2 x 1 1/2 x 1 1/4	1 1/2	.88
A12766	T13S41*	2-E	Universal for P. P. tubes.	2 1/2 x 2 x 3	2 1/4	1.62

*For heavy-duty power tubes drawing up to 60 M. A.

FOR 6 TO 12 OHM VOICE COILS

Cat. No.	Type	Fig.	Primary	Size	Lbs.	NET
A12767	T13S59	2-B	PP45, etc.	2 1/2 x 2	2 1/4	\$0.88

FOR 1, 2, AND 4 OHM VOICE COILS

Cat. No.	Type	Fig.	Primary	Size	Lbs.	NET
A12768	T13S37	3-E	1-6F6, 42, 2A5, 47	1 1/4 x 1 1/8 x 1 1/8	1 1/2	\$.73
A12769	T13S39	3-E	1-45, 12A5, 31, 43, 71A	1 1/4 x 1 1/8 x 1 1/8	1 1/2	.73
A11149	T13S43	3-E	1-1F4, 1D4, 1F5G	1 1/4 x 1 1/8 x 1 1/8	1 1/2	.79

PLATE COUPLING CHOKES

Cat. No.	Type	Fig.	MA	Hys.	Size	Lbs.	NET
A11145	T29C27	2-B	5*	700	2 x 2 1/2 x 1 1/2	2	\$0.88
A11146	T52C98	2-F	5*	700	2 3/8 x 2 x 1 1/8	2 1/4	1.03
A11147	T37C36	2-F	5.	300	2 3/8 x 2 x 2 1/2	2 1/2	1.18
A11148	T67C46	2-B	5.	300	2 3/8 x 2 x 2 1/2	2 1/4	1.03
A11143	T68C08	2-F	35	22	2 3/8 x 2 x 2 1/2	2 1/2	1.47
A11144	T14C70	2-F	35	22	1 1/2 dia. x 2 1/2	1/2	1.47

*For use as plate inductance with S. G. tubes. Max. Cap. 8 MA.

FILTER CHOKES

Cat. No.	Type	Fig.	Hys.	MA	Ohms	Size Inches	Lbs.	NET
A12750	T18C92	2-B	22	35	405	2 x 1 1/4 x 2 3/8	2 1/2	\$0.88
A12751	T47C07	2-B	12	75	410	2 x 2 3/8 x 2 3/8	2 1/4	1.17
A12752	T68C07	2-B	15	85	375	2 x 2 1/2 x 2 1/2	2 1/2	1.18
A12753	T57C54	2-F	10	110	200	2 x 2 1/2 x 3	3 1/4	1.18
A12754	T57C54	2-F	10	110	200	2 1/2 x 2 1/2 x 3	3 1/4	1.32
A12755	T17C06	2-F	12	150	231	2 1/2 x 3 x 3 1/2	4 1/4	1.62
A12756	T13C28	3-B	8	40	530	1 1/4 x 1 1/8 x 1 1/8	1 1/2	.65
A12757	T13C27	3-B	10	40	475	2 x 1 1/8 x 1 1/8	1 1/2	.65
A12758	T13C28	3-B	10	65	460	2 1/2 x 1 1/2 x 2 1/2	2 1/2	.94
A12759	T13C29	3-B	8	85	25	2 x 2 1/2 x 2 1/2	2 1/2	.88
A12760	T13C30	3-B	8	120	290	2 x 2 1/2 x 2 1/2	2 1/2	1.18
A12761	T13C30	3-B	8	150	200	2 1/2 x 2 x 2 1/2	2 1/4	.88
A12762	T67C49	2-F	5	200	80	3 x 2 1/2 x 3 1/2	3 3/4	1.62

A.C.-D.C. CHOKES

Cat. No.	Type	Fig.	Hys.	MA	Ohms	Size Inches	Lbs.	NET
A11115	T14C61	3-B	7	55	250	2 x 1 1/2 x 1 1/2	3/4	\$0.62
A11116	T14C62	3-B	8	55</				

INTERFERENCE ELIMINATORS • FILTERS

AEROVOX FILTERS

TYPE IN-24 ELIMINATOR

- Eliminates power line interference
- Completely factory-built
- 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 interfering electrical devices. Provided with 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"x3¼". Shpg. wt., 3 lbs.

A6953. List, \$4.75. NET..... \$2.79

TYPE IN-28 FILTER

For direct use with radio set or on small appliances causing interference. Plugs in between connection cord and outlet. Has mounting bracket. 1½x2". Wt., 1 lb.

A6956. NET..... 56¢

TYPE IN-29 FILTER

An efficient filter especially suited for use in reducing interference from sources which are variable in character but strong in intensity. Ideal for eliminating noise caused by electric razors and other vibrating devices. Plugs in between connection cord of device and electrical outlet. Measures: 1½x3". Shpg. wt., 1 lb.

A6956. NET..... 44¢

TYPE IN-30 FILTER

A medium-duty filter, similar in appearance and general design to Type IN-29, but provided with inductance in addition to capacitance for elimination of more intense interference. May be effectively used either at source of interference or at radio set. Plugs in directly between attachment cord and outlet. Measures: 1½x3".

A6957. NET..... 73¢

A6958. TYPE IN-31. Similar to above but for elimination of more serious interference. Size, 1½x3". **NET..... 88¢**

TYPE IN-27 FILTER

For use between radio set and electric outlet in cases where interference is relatively small. Also suitable for application directly to small appliances which are sources of low intensity interference. Size: 1½x1½".

A6954. NET..... 38¢

INTERFERENCE ANALYZER



A clever device indicating immediately which of above filters is needed to eliminate specific noises. Plugs into outlet ahead of interfering device. Rotary selector picks proper filter combination. In metal case, 5½x5½x8". For A.C. or D.C. Shpg. wt., 6 lbs.

A6959. YOUR NET PRICE... \$6.86

ANTENNA SUBSTITUTE

Plugs into electric outlet ahead of radio set. Lead connects with set antenna post. A good aerial substitute under average wiring conditions.

A6952. NET..... 59¢

MILLER ALL-RUBBER SHAVER FILTER



Shock-proof, unbreakable, molded-rubber construction. Employs inductive-capacitive circuit. A sure cure for interference from electric shavers.

A7214. NET..... 88¢

END RADIO NOISE!

Noise enters a radio set either from the aerial or from the power lines. To determine which, connect the aerial post of the set to the chassis or ground. If the noise stops, an all-wave antenna such as those listed on pages 136-137 should be installed. However, if the noise persists, a power line filter should be selected from the types listed below. Unless description states otherwise, most interference eliminators serve best when installed at source of interference rather than at radio set. If uncertain of choice, write us (describing source of interference if known) for recommendation of proper noise-eliminating method.

TACO H-F ALL-WAVE LINE FILTERS

A composite filter containing three complete filter circuits. Covers short-wave, and ultra-short-wave as well as the standard broadcast bands. R.F. 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 A.C. or D.C. 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. Shpg. wt., 5 lbs. An effective filter. **\$4.41**



MILLER ALL-WAVE LINE NOISE FILTER

A highly efficient unit offering positive results through use of complete filter circuit. Utilizes capacitive and inductive filter units for best results. Oil condensers give long life. May be used on small interfering devices or on radio itself. Plug radio or appliance into filter and connect to ground. For 110-220 V. A.C. or D.C., not over 2 amps. Wt., 2 lbs. Underwriters' Approved. **\$2.35**



CONTINENTAL FILTERNOYS

Free your radio reception from annoying interference caused by electrical appliances. Efficient Filternoys units eliminate or materially reduce "man-made" static caused by vacuum cleaners, refrigerators, shavers, mixers, etc. For 110-120 Volts, A.C. or D.C.

A7218. Type R01DH. Plug-in type for use between radio and power outlet. Wt. carry 5 amperes. **NET..... 59¢**

A7220. Type R01H. Rejection type for use where neutral power wire is grounded. Plugs in. 5 amp. capacity. **NET..... 47¢**

A7219. Type F01DH. Plug-in type for elimination of noise at motors using less than 300 watts. **NET..... 59¢**

TYPE GO1DH

Wire-in suppression-type unit with two chokes and two condensers with grounded frame. Mounts on motors, dialthermy or dental machines, etc., drawing less than 300 watts A.C. or D.C. 3½"x1¼". Wt., 8 oz.

A7221. NET..... 59¢

F-18 DIVERTER

Prevents interference from reaching radio set by diverting it to ground. Use where neutral power line wire is grounded. In small bakelite case. Plugs into wall outlet or light socket. **29¢**

A7217. NET..... 29¢

TOBE NOISE-ELIMINATING FILTERETTES

NOISE MANUAL

A helpful manual published by the Tobe Deutschmann Corp. Contains full information on man-made electrical noises and how to prevent them from reaching the radio set. Will pay for itself on your first service call. **A8449. NET..... 29¢**



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 volt lines. Shpg. wt., 1 lb. **A8406. NET..... 59¢**



RAZOR FILTERETTE

A practical filter unit to reduce interference from electric razors. Enjoy early morning programs, time signals, etc., without the disturbing buzz of your razor. Just plug unit in wall receptacle and plug razor in other end. In black bakelite case only 1½" dia. by 2½" long. Wt., 1 lb. **A8402. NET..... 59¢**



FILTERETTE JUNIOR

A simple yet thoroughly efficient filter unit for appliances such as vacuum cleaners, cash registers, drink mixers, hair dryers, dictating machines, sewing machines, etc. In bakelite case, 1½" dia. x 2½" long. Convenient to attach. Wt., 1 lb. **A8403. NET..... 73¢**



JA FILTERETTE

A light-weight filterette for attachment to appliances such as electric drills, barber clippers, etc. Appliance cord must be cut and JA installed as permanent equipment. **A8407. NET..... \$1.03**



MODEL RF-2

Designed to eliminate noises coming from the power line. Effective filtering is attained through combining capacity and inductance in one carefully engineered unit. For installation between set and power line. For use where voltage does not exceed 130 V. Wt., 2 lbs. **A8405. NET..... \$2.79**

CORNELL-DUBILIER QUIETONE

A new interference filter which eliminates or materially reduces power line interference. Employs highly effective all-wave capacitive-inductive type filter. Install between power outlet and radio set. For 110 Volts, A.C. or D.C. Carries 5 amps. In walnut-finished bakelite case, 5"x3¾"x2¾". With 6 foot rubber cord and plug. Has convenient mounting flanges. Wt., 6 lbs. **A5582. Type 1F-18. NET..... \$2.94**



FILTERVOLT NOISE FILTER

An efficient new filter to eliminate moderate noise interference from all types of electrical appliances. Suitable for installation directly ahead of radio set or at source of noise disturbance. Assures enjoyable, noise-free radio performance. Shpg. wt. 1½ lbs. **A5564. List, \$2.85. NET..... \$1.44**



NOISE & ANTENNA ELIMINATORS

NEW SPRAGUE PROFESSIONAL METHOD OF NOISE ELIMINATION

Sprague now makes it possible to apply scientific analysis to the location and elimination of noise interference. It is no longer necessary to locate and correct interference by the hit-or-miss method. Only three simple steps required: (1) locate the trouble with the Interference Locator; (2) determine the remedy with the Interference Analyzer; and (3) apply the permanent filter, selected from the list below. Be the recognized Interference Expert in your locality. Countless numbers of radio receivers in doctors' and dentists' offices and elsewhere are waiting for this service. Cash in on this profitable business. Stamped and postcards available at \$1 per 100 for soliciting inquiries. Send for free sample packet. It will pay you to specialize in noise elimination; get into this profitable field.



INTERFERENCE LOCATOR

A new high-quality, low-priced Interference Locator. Consists of a specially designed, portable, battery-operated receiver with built-in speaker. Uses self-contained loop antenna, as well as a telescoping mounted on top of case allowing actual demonstration of noise-reduction levels. Self-contained batteries. Switch permits change-over to regular radio receiver to demonstrate actual noise reduction on premises. With complete instructions. Tunes 500 to 1600 K.C. **\$40⁸⁷**
A11450. NET PRICE
TIME PAYMENTS: \$4.09 down, \$5.06 monthly for 8 months.

SPRAGUE INTERFERENCE ELIMINATOR CONDENSERS & CHOKES



The filter components listed below have been especially designed for the elimination of interference in radio reception. Highest quality chokes and condensers. Condensers may be used on 220 volt A.C. or D.C. lines.

- A11461. IF-15.** A triple-section filter for small motors used in mixers, fans, drills, etc. R.M.A. recommended design. Size, $2\frac{1}{4} \times 1\frac{1}{2}$ dia. 6" leads. **73c.**
NET
- A11462. IF-25. Fig. A.** Double-section filter for medium-sized motors up to 1 H.P. Used on grinders, drill presses, etc. Size, $3\frac{1}{2} \times 1\frac{1}{2}$ dia. **\$1.32**
NET
- A11463. IF-G1. Fig. B.** Metal encased, single-section filter for use on brush connector of generators, converters, etc. Case grounded. $1\frac{1}{2} \times 1\frac{1}{2}$ dia. **38c.**
NET
- A11464. IF-G10.** High-capacity, single-section filter with enclosed terminals. Used with IF-11 on 3-wire distribution systems. $3\frac{1}{4} \times 1\frac{1}{2}$ dia. **\$1.18**
NET
- A11455. IF-11.** Dual high-capacity filter for heavy industrial uses. Size, $4\frac{1}{2} \times 1\frac{1}{2}$. Two 6" pigtail leads. **\$1.68**
NET

- A11458. IF-21.** Dual, compact filter with 220 V. A.C. rating. Case grounds to motor frame. Size, $2\frac{1}{2} \times 1$ dia. **59c.**
NET
- A11465. IF-51.** Single, 2 lead filter section with insulated case. Used on relays, buzzers, etc. Size, $2 \times \frac{3}{4}$. **44c.**
NET
- A11466. IF-R1.** Resistor-capacitor filter section for use across contacts in reactive circuits. $2\frac{1}{2} \times 1$ dia. **82c.**
NET
- A11467. IF-R2.** Same construction as IF-R1. For use in highly inductive circuits. Size, $2\frac{1}{2} \times 1$ dia. 6" leads. **82c.**
NET
- A11459. CH-1.** Fig. C. Metal encased choke of adequate inductance for R.F. filtering. 10 Amp. size. $3\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$. **79c.**
NET
- A11460. CH-2.** R.F. filter choke as above to carry 20 amperes. 8 inch pigtail leads. Size, $3 \times 2\frac{1}{2} \times 2\frac{1}{2}$. **\$1.62**
NET

INTERFERENCE ANALYZER

A compact, professional instrument widely used by power companies, Servicemen, etc. Easy to use anywhere. Simply connect analyzer into the circuit of any device causing radio interference. Rotating the selector switch connects any one of 60 different filter combinations into the circuit. The proper type of filter can thus be accurately determined. Eliminates guesswork—saves you money. Indicates the filter necessary without costly experimentation. Interference booklet and chart supplied free. Get into the profitable noise-eliminating field with this valuable, accurate instrument. **\$23.46**
A11451. NET PRICE



NOISE ELIMINATION BOOK

A valuable booklet compiled by Sprague engineers to help you determine quickly the source of radio interference. All types of interference are considered and the remedies suggested. Wt., 1 lb. **\$2.50**
A11470. NET PRICE



FAMOUS DX LIFETIME AERIALS

Efficient non-directional antennas, fully-assembled. Designed to increase selectivity and reduce interference. Especially suitable for successful short wave reception. Built of 7/24 stranded enamel copper wire with zinc spacer rings. Assembled with two porcelain insulators and with 25 feet of rubber-covered lead-in wire soldered on.

- NO. 60 AERIAL** **NO. 20 AERIAL**
A9135. Length, 50 ft. 6 spacer rings. Contains 250 ft. wire. Shpg. wt., 4 lbs. **\$2.79**
NET
- A9137.** Length, 20 ft. 5 spacer rings. Contains 100 ft. wire. Shpg. wt., 2 lbs. **\$1.85**
NET

NO. 46 DOUBLET SYSTEM

Ideal for use with any All-Wave or Broadcast set. Consists of: 2-20 ft. cage aerials completely assembled with 25 ft. twisted pair lead-in. Each cage has 3 spacer rings and contains 100 ft. of wire. Should be used with an All-Wave Coupler. Wt., 4 lbs. **\$3.75**
A9138. YOUR SPECIAL PRICE

MEISSNER WAVE TRAPS

Interference created by powerful local stations or code and long wave signals can be eliminated by using these units. They are installed in series with aerial lead-in wire and tuned to the interfering signal. **\$1.55**
A5679. Dual Universal Model. Will eliminate interfering signals in the broadcast, police, and I.F. channels. Dual controls tune from 400 to 700 K.C. and from 650 to 1950 K.C. Iron-core construction produces a high "Q" which results in sharp tuning. The attenuation is .40DB.
YOUR NET PRICE



FOR BROADCAST BAND

- Cover 400 K.C. to 1600 K.C.
A5652. 400 to 700 K.C. **EACH**
A5653. 650 to 1000 K.C. **73c**
A5654. 950 to 1600 K.C. **38c**
A5651. 456 Unshielded **38c**

FOR AMATEUR BAND

- Cover Amateur bands and 456 K.C.
A5655. 20 Meter Band **EACH**
A5656. 40 Meter Band **73c**
A5657. 80 Meter Band **53c**
A5658. 160 Meter Band **53c**
A5659. 456 K.C. Model **53c**

R.C.A. MULTI-RANGE WAVE TRAP

A new low-cost, universal wave trap of superior design and remarkable performance. Average attenuation 40 to 1 over the entire broadcast band. Ideal for use in locations where interference from commercial ship, police, and amateur stations is prevalent. Also used to tune out powerful nearby broadcast stations. Frequency range, 450 K.C. to 2100 K.C. Adequately shielded for protection against interference and reaction with receiver circuits. Causes no signal loss. A truly effective wave-trap. **\$1.09**
A7599. NET PRICE



SET MATCHING TRANSFORMER

For matching the transmission line of any doublet aerial to any All-Wave or Short Wave receiver. Works with any transmission line to eliminate noise and increase signal strength. **A5545. NET 81c.**

TOBE NO-TENNA



Tobe engineers have developed this highly efficient aerial eliminator after thorough research. Will bring in broadcasts without noise and interference. Ideal for use in locations where it is not convenient to install an outdoor antenna. Small and well-made. May be put in the radio cabinet. Easily attached to any make or model receiver. No tools needed for installation. **AB409. NET PRICE 59c.**



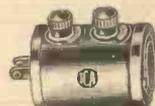
AERIAL ELIMINATOR

Replaces outside aerial. Condenser and coil combination built-in to give an effective equivalent of 75 feet of wire. Measures $5 \times 2\frac{1}{2} \times 1$. Shpg. wt., 1 lb. **A5499. NET \$1.05**



AERIAL ELIMINATOR AND ANTENNA TUNER

This new device operates as a noise reducer when used with an outside aerial. Tunes antenna circuit to desired signal providing a better signal-to-noise ratio. May also be used by itself as an indoor aerial. Easily installed; works with any receiver; will improve reception. **A5554. NET 59c.**



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 gain increased pickup. Serves to reduce noise and improves set sensitivity. Binding post connections. **A5518. NET 80c.**

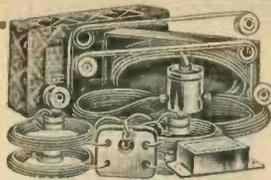
RCA-VICTOR ANTENNA SYSTEMS & ACCESSORIES



RCA "MAGIC-WAVE" ALL-WAVE ANTENNA

A new factory-wired All-Wave Antenna system offering improved radio reception. Antennas may be from 20 to 120 feet in length; as many as 16 sets may be used. New magnetite core transformers give high efficiency and good noise reduction. Has built-in lightning arrester. Consists of: Receiver and Antenna Coupling Transformers; 60 feet of Antenna Wire; 45 feet of transmission cable; 5 feet of ground wire; 5 insulators; 1 ground clamp. Shpg. wt., 10 lbs.

- A7540. No. 9812. NET \$3.43**
A7593. No. 9849. Antenna Coupler only, with built-in lightning arrester. NET \$1.15
A7532. No. 9814. Distribution Transformer. Use one for each 4 additional sets. NET \$1.76
A7533. No. 9813. Set Coupler only. For each additional set on one antenna. NET \$1.47



RCA "SPIDER-WEB" ALL-WAVE ANTENNA

This unique antenna insures greater signal pickup on every band, bringing in more stations with maximum noise rejection. Gives excellent all-wave reception over a frequency range from 140-23,000 K.C. Complete factory assembling and soldering of all parts makes installation simple. 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 connections; complete instructions. RCA's finest antenna—recommended for the best Short-Wave and standard Broadcast reception. Ideal for use with any receiver. A really remarkable advance in antennas. Shpg. wt., 10 lbs.

- A7580. No. 9685. NET \$5.26**
A7581. No. 9689. This kit when added to the Spider-Web increases range to cover from 23 to 70 M.C. Shpg. wt., 2 lbs. NET 88c



RCA 395 ALL-WAVE ANTENNA SYSTEM

A new RCA Antenna System that will improve the performance of any set. Exceptionally low-priced. Will operate with any type of set, Broadcast, Short-Wave, Long-Wave or All-Wave. Fully assembled and ready to install. A scientifically-designed antenna system providing 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, 45 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. A standard RCA quality antenna at a popular price. May be used in practically any locality. Shpg. wt., 5 lbs.

- A7596. NET \$2.25**
A7530. No. 12855. Receiver Coupler Unit Only. NET 44c

ANTENNA INSULATORS AND ACCESSORIES FOR ALL REQUIREMENTS

GLAZED INSULATORS

- Glazed porcelain; corrugated for minimum leakage. Wt. 1/2 lb.
A6192. 2 1/2 inches long. 10 FOR 19c. 100 FOR \$1.70. EACH 2c
A6193. 4 inches. 10 LOTS, 40c. EACH 5c
A6194. 5 inches. 10 FOR 84c. EACH 9c

AIRPLANE INSULATOR

- Streamlined strain insulators, made of low-loss glazed white porcelain. Ideal for breaking up antenna guy wires. Size, 1 1/4 x 1/8". Weight, 3 oz.
A6217. 10 FOR 20c. EACH 3c

STRAIN INSULATOR

- An extremely husky strain insulator for use in guy wires or supporting wires for antennas. Made of the very finest quality brown glazed porcelain, 2 1/4" long and 1 1/2" diam.
A6195. 10 FOR 54c. NET EACH 6c

GLASS INSULATORS

- Absolutely climate-proof. Extremely efficient; designed for great strain. 3" long. Inexpensive, sturdy insulators for use in any type of receiving or low-power transmitting antennas. Wt. 1/2 lb.
A6196. 10 for 19c. 100 for \$1.80. NET EACH 2c

PYREX INSULATORS

- Strong, rugged insulators with low power loss and low surface conductivity. Climate-proof. Genuine Pyrex glass.
A3750. 3 3/4" long. For Receiving Aerials. EACH 20c
A3751. 7 1/2" long. Will handle up to 250 watts. Wt. 2 lbs. NET EACH 75c

- MUELLER CLAMP**
 Durable and rigid because of channeled construction. Case-hardened screw. Cadmium plated.
A6508. Lots of 50. 46c
100 for \$4.25. EACH 6c

- GRIPPER GROUND CLAMP**
 This heavy-duty clamp may be used on any pipe or rod up to 1 1/2" in diameter. Pointed screw assures positive contact through paint or rust.
A3599. EACH 3c
10 FOR 22c

EYE WALL INSULATORS

- White glazed porcelain ring mounted in sturdy galvanized screw eye. For fastening lead-in wires to wall. Strong and durable; will hold up indefinitely.
A3403. 3 INCH. 10 FOR 17c. EACH 2c
A3404. 7 INCH. 10 FOR 26c. EACH 3c

WINDOW LEAD-IN

- Fits between sash and sill. Fahnestock connector on each end for quick, easy connection of lead-in. Duco insulated braid will stand up under all weather conditions.
A3428. 16 inch. NET EACH 5c
A3427. 12 inch. 10 FOR 23c. NET EACH 3c

DUAL WINDOW LEAD-IN

- Designed for use with any two-wire lead-in, or transmission line. Is fully insulated; brass screw terminals at both ends assure tighter connection. 12" long.
A6718. YOUR PRICE 9c

SPRING AERIAL

- Especially desirable for use where aerial space is limited. Easy to erect. Is non-directional. Stretch of 15 to 30 ft. With two fibre end insulators.
A3433. YOUR PRICE 11c

- PORCELAIN NAIL KNOBS**
 Sturdy split knobs of glazed white porcelain. Leather washers prevent splitting. 1 1/4" high, 1 1/2" diam. Slotted for 2 wires. Wt., 6 oz.
A3418. 10 FOR 18c. 100 FOR \$1.64. NET EACH 2c

PORCELAIN TUBES

- Durable, non-absorbent porcelain. Flanged at end. Inside dia. 3/8".
A6212. 3" Long. 10 FOR 18c. EACH 2c
A6213. 6" Long. 10 FOR 20c. EACH 2c

PLATED GROUND RODS

- Pep up radio reception by eliminating flimsy and makeshift ground connections. Made of copper-plated steel, 3/8" diam., with screw clamp for lead-in. Shipped by express. Shpg. wt., 4 and 6 lbs.
 No. Feet EACH 10 For
A10000 4 28c \$2.65
A10006 6 38c 3.60

- PUSH-CLIPS**
 For fastening lamp cords, radio set cords, etc., close to floor or wall molding. Slips behind molding, holding wire tightly.
A6520. Brown. A6521. Ivory. Car of 3 Clips, PER CARD 6c
In Lots of 10 Cards, NET PER CARD 5c

TRANSPOSITION BLOCK

- Made of glazed ceramic material. Correctly designed to prevent twisting of transposed lead-in; reduces electrical loss to minimum. 2 1/2 x 1 1/2". Wt., 3 oz.
A6210. 10 FOR 40c. EACH 5c

SPRING ADJUSTER

- Prevents antenna sag. Powerful, compression type rust-proof spring. With porcelain insulator end rings. Especially suited for double type antenna to prevent swaying. Wt. 1 lb.
A3419. EACH 18c

AERIAL CONNECTOR

- For connecting aerial and lead-in cables in either auto or home aerial systems. Cadmium plated.
A3421. EACH 5c

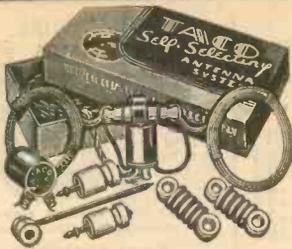
INSULATED STAPLES

- Saddle type insulated staples. Sturdy, durable, and very useful. 100 to the box. Wt. 2 lbs.
A3975. Per Box of 100 10c
Per 1,000 (10 Boxes) 95c



COR-NEX CONNECTOR

- Eliminates unsightly wiring and makeshift window lead-in for home radio receivers. Can be used with sets having input for either single or double type lead-in. Increases efficiency of set by providing noise-free lead-in connections. Easily installed. Incorporates built-in efficient lightning arrester. Requires 3/4" hole. Adjustable to 14 inches.
A3388. EACH \$1.47



TACO ALL-WAVE AERIAL

A new self-selecting all-wave aerial, electrically and mechanically designed to render highest possible efficiency. The use of dual precision-built transformers assures perfect matching to any Broadcast, Short-Wave, or All-Wave receiver. Entirely eliminates interference and provides maximum signal pickup, even in noisy locations. Aerial length is only 60 feet. Consists of: 1—Antenna Transformer; 2—30 foot coils of stranded aerial wire; 3—30 foot proof transmission cable, all factory-assembled and soldered; 1—insulating screw-eye; 2—nail knobs; 2—porcelain insulators, and complete installation instructions. Shpg. wt., 4 lbs. **\$3.97**

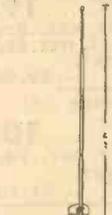
TACO NOISE-REJECTING COUPLER



A variable impedance antenna-matching unit. Matches any antenna transmission line to the input circuit of any radio set. Simple to install; quickly and easily adjusted by means of top knob. With wire leads for set connection; screw terminals for antenna lead-in.

Shpg. wt., 1 lb. **\$1.47**
A8415. NET

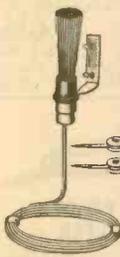
KNIGHT VERTICAL ANTENNA



The newest development in home type antennas. 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 S. W. receivers. Simple to install. No fuss and bother with masts and horizontal wires. Insulator furnished provides positive weatherproof insulation. Universal bracket allows for mounting anywhere. Complete antenna assembly includes 4 section 12 foot mast, universal mounting bracket, 40 feet of lead-in wire, 10 feet of ground wire, lightning arrester, insulators, etc. Shpg. wt., 4 lbs.

A10503. NET **\$1.90**

ALL-DIRECTIONAL AERIAL



Increases the selectivity and sensitivity of any set. An unusually efficient antenna of new design. Permits absolutely All-Directional reception. Will materially improve reception on short wave bands; makes possible improved efficiency on standard broadcast band. Suitable for use practically anywhere. May be quickly installed with a screwdriver. Eliminates all masts, poles, long aerials, dangling wires, etc. Requires small mounting space. An unusually efficient aerial at an attractive low price. 40 foot lead-in. Shpg. wt., 4 lbs.

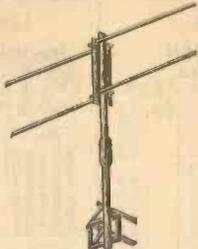
A10010. NET **\$1.95**

GUY WIRE



A 50-foot coil of special galvanized steel wire. Tough, non-stretching. Ideal for supporting antenna masts or for other requirements where a strong guy wire is needed.

A11298. NET **15c**



RCA TELEVISION ANTENNA

For good video reception a scientifically designed antenna system is a necessity. This new RCA Double Dipole Antenna has been designed especially for television reception. Covers 44-90 M.C. bands for strong reception of picture signals, as well as short-wave and high signal strength at reduced noise levels. Consists of 4 special television antenna rods, wooden mounting pole, and mounting accessories. All metal parts are corrosion-proof. Field tests have proved the worth of this new antenna. For high signal pickup, wide coverage, flexibility of installation, and ruggedness of construction it is unsurpassed.

A7536. Type 9871. NET **\$5.60**

A7537. Type 9870. Double "V" Wire Type Antenna. Popular-priced television antenna for use in localities where reflection is not a problem. Covers 44-50 and 50-56 M.C. channels. Factory assembled; includes junction box and 90 feet transmission line. **\$3.00** NET

A7538. Type 9872. Reflector. For use with Type 9871 antenna in areas where reflection or distortion is encountered. Improves reception and rejects unwanted signals. **\$10.30** NET



KNIGHT DE LUXE ANTENNA IDEAL FOR THESE SETS:

Crosley Philco R.C.A. Grunow Knight Zenith

or for any set with standard or doublet input. This is one of the finest factory assembled All-Wave antenna systems available. It utilizes the famous doublet principle to provide maximum efficiency. The special transmission cable cancels out noise. A proper impedance match between antenna and receiver is assured through the use of a two-position coupling transformer. The Knight De Luxe Antenna is quickly and easily installed. The 60 foot overall length makes it well-adapted for locations where space is limited. Factory-assembled kit consists of: 2—30-foot rolls of stranded aerial wire, 1—60-foot length of transmission cable, 1—crossover insulator, 1—impedance matching transformer, 2—glass insulators, 2—porcelain nail knobs, 1—eyeball insulator, and 1—double window lead-in. Shpg. wt., 4 lbs. **\$1.89**

KNIGHT STANDARD ANTENNA

An efficient all-wave antenna for use with any set having input for either single or double wire lead-in. Consists of 2—30-foot coils No. 16 stranded copper wire assembled with porcelain insulator and 50-foot transmission line; insulators; screw-eye; nail knob; arrester; lead-in strip. With instructions. Wt., 4 lbs. **\$1.19**

A3389. NET

NEW ICA TENNASCOPE LOOP

A newly-designed "built-in" type antenna eliminating need for outside aerial and ground. Easily connected to any set by following simple instructions supplied. Covers 500-1715 K.C.; provides higher signal to noise ratio and better selectivity. Housed in metal finished case which fits inside set cabinet. Size: 8" long, 6" high, 1 1/4" deep. Wt., 21 lbs. **\$1.03**



POPULAR LIGHTNING ARRESTERS

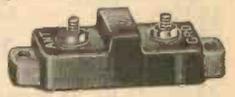
APPROVED ARRESTER



A high-grade dependable air gap type lightning arrester. Approved by Underwriters. Porcelain construction with screw terminals.

A3425. 10 FOR 80c. 100 FOR \$7.25. EACH **7c**

BABY BAKELITE ARRESTER



Absolutely dependable weatherproof type. Bakelite construction. Underwriters' approved.

A6199. 10 FOR 80c. 100 FOR \$7.25. EACH **9c**

VIS-O-GLOW ARRESTER



Uses neon element and operates on low voltage. Sensitive and will carry heavy discharges. Offers real protection.

A3407. NET **59c**
A3408. Duplex Type. For Doublet antennas. Wt., 1 lb. NET **78c**

DOUBLET ARRESTER



Two arresters combined in one single unit. May be used indoors or outdoors for any two-wire lead-in or transmission line.

A5549. NET **17c**

ELECTROSTATIC ARRESTER



Combination lightning and static arrester. Incorporates choke coil and condenser acting as noise and static reducer and filter. Affords maximum protection against fire hazard. A really effective device that improves radio reception and protects your set.

A5533. NET **43c**

ADJUSTABLE ANCHOR

Specially designed adjustable anchor for keeping guy wires tight. Rustproof steel. Eye-screw with wing nut easily adjusts wire to proper tension.



A11299. NET **9c**

STORM KING ARRESTER

A new lightning arrester that will provide positive protection. Absolutely assures against dangerous static discharges. Duplex type for use with doublet aeriels or any aerial using a two-wire lead-in.



A3432. NET **53c**

TENSION INSULATOR



Holds antenna tight by means of a heavy spring. Porcelain insulator at one end. May be used with any antenna. Wt., 1/2 lb. **7c**

A11297. NET

Belden RADIO PRODUCTS



BELDEN MAGNET WIRE

Famous Belden quality magnet wire. Highest grade soft-drawn copper wire with uniform 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. Noted everywhere as absolutely the finest quality magnet wire you can buy.

PLAIN ENAMELED

½ LB. SPOOLS			
No.	Size	Feet	EACH
A3900	14	39	
A3901	16	63	27c
A3902	18	101	
A3903	20	160	29c
A3904	22	253	29c
¼ LB. SPOOLS			
A3905	24	402	30c
A3906	26	640	30c
A3907	28	1013	38c
A3908	30	1610	42c
¼ LB. SPOOLS			
A3909	32	1275	26c
A3910	34	2030	30c
A3911	36	3220	38c
A3912	38	5120	51c
A3913	40	8140	73c

CELLULOSE ACETATE PUSH-BACK WIRE

Finest hookup wire. Cellulose acetate push-back insulation, covered overall with lacquered, basket-weave rayon braid. Solid conductor is No. 20 tinned copper; stranded is 10-strand No. 30 tinned copper. 25 foot spools.

Solid		Stranded	
No. Color	A2455 Red	No. Color	A2455 Red
A2450 Red	A2455 Red	A2451 Blue	A2456 Blue
A2452 Green	A2457 Green	A2453 Black	A2458 Black
A2454 Yellow	A2459 Yellow	A2454 Yellow	NET
NET EACH	18c	NET EACH	19c

NO. 18 STRANDED LOW-LOSS WIRE

For A.V.C. and A.F.C. circuits where leakage must be low. Made up of 16 strands No. 30 wire. ¼" rubber covering. 9000 V. insulation. 25 ft. spools.

No.	Color	NET EACH
A2395	Red	18c
A2396	Blue	
A2397	Green	
A2398	Black	
A2399	Yellow	

No. 14 Stranded
Similar to above but especially suited for heavy-duty use. No. 14 conductor is made up of 41 strands of No. 30 copper wire. A2460, 25 foot spool. Black. NET 34c.

A2461, 25 foot spool. Red. NET 34c.

No. 20 Double Braid
Double braid, waxed push-back wire with Number 20 tinned conductor. 25 foot coils.

Solid		Stranded	
No.	Color	No.	Color
A2920	Red	A2925	Red
A2921	Blue	A2926	Blue
A2922	Green	A2927	Green
A2923	Black	A2928	Black
A2924	Yellow	A2929	Yellow
NET EACH	11c	NET EACH	13c

HOOK-UP WIRE ASSORTMENTS

Special assortments of 4-25-foot coils of Belden hook-up wire. No. 20 tinned copper wire; cellulose acetate push-back insulation covered with basket-weave rayon braid. Colors: black, red, yellow, green. A2918. Solid. NET 64c. A2919. Stranded. NET 73c.

DOUBLE COTTON

½ LB. SPOOLS			
No.	Size	Feet	NET
A3950	18	96	\$0.33
A3951	20	150	.36
A3952	22	235	.38
A3953	24	362	.42

¼ LB. SPOOLS

A3959	26	280	.27
A3959	28	430	.30
A3960	30	660	.35
A3961	32	965	.47
A3962	34	1373	.60
A3963	36	1675	.71

DOUBLE SILK

½ LB. SPOOLS			
No.	Size	Feet	NET
A3980	18	100	\$0.45
A3981	20	160	.51
A3982	22	252	.53

¼ LB. SPOOLS

A3987	24	196	\$0.32
A3988	26	310	.38
A3989	28	490	.45
A3990	30	773	.54
A3991	32	1207	.74
A3992	34	1785	1.09
A3993	36	2685	1.42

GLAZED COTTON MULTIPLE CABLE



For permanent installation of speakers, remote controls, transmission lines, etc. Conductors of No. 20 tinned copper are in heavy wrap, rubber sheath, and color-coded glazed braid, with abrasion-proof woven braid overall.

No.	Conductors	Foot	100 Ft.
A2381	2	2c	\$1.43
A2382	3	2½c	1.98
A2383	4	3¼c	2.79
A2384	5	4c	3.38



RUBBER-COVERED MULTIPLE CABLE

For P.M. or electro-dynamic speakers and for power supply lines. Individual conductors rubber covered, cotton wrapped and jacket of heavy, flexible rubber.

No.	Cond.	Foot	100 Ft.
A2390	2	3c	\$2.20
A2391	3	3¼c	2.79
A2392	4	4c	3.38
A2393	5	5c	4.26



BAKELITE ARRESTER

Underwriters' approved. Provides positive protection. Sturdy and compact. Bakelite body. A2403. EACH 12c.



DOUBLET ARRESTER

For complete protection with any doublet antenna system. Sturdy brown porcelain case. A2409. NET 18½c.

APPROVED ELECTRIC SHAVER COILS

Underwriters' approved 6-foot all-rubber cord and plug for electric shavers. Replaces old cord.

No.	Razor	EACH
A2438	Schick	51c
A2439	Packard	

LEAD-IN WIRE

RUBBER-COVERED

Stranded conductor, covered with special rubber insulation to allow easy stripping for soldering. Finest quality.

No.	Size	Length	NET
A2422	14	50 ft.	\$0.39
A2423	14	250 ft.	1.83
A2424	16	50 ft.	.46
A2426	16	100 ft.	.46
A2425	16	250 ft.	1.13
A2431	18	100 ft.	.36

SHIELDED

Heavy rubber insulation over stranded conductor. Overall shield of tinned braided copper wire. Ideal for shielded lead-in use. Weatherproof. Standard high-quality wire.

No.	Size	Length	NET
A2427	14	50 ft.	\$1.18
A2428	14	250 ft.	5.14
A2429	16	50 ft.	.73
A2430	16	250 ft.	3.30

MICROPHONE CABLE

Shielded, rubber-sheathed mike cable; low capacity rubber core with tinned copper and phosphor bronze stranding.

No.	Size	Per Ft.	100 Ft.
A2445	26	5c	\$3.97
A2446	20	3¼c	2.94

FOR CARBON MIKE AND UTILITY PURPOSES

No.	Cond.	Per Ft.	100 Ft.
A2876	2	4¼c	\$3.82
A2877	3	5c	4.41
A2878	4	7c	5.59
A2879	5	8¼c	7.35
A2880	6	10c	8.08
A2881	7	10c	8.82

BELDEN ARMORED SPEAKER CABLE

Weatherproof, armored speaker cable that will stand hard usage. Consists of 2 parallel strands No. 18 wire with cotton wrap, ¼" rubber shield, paper wrap, and galvanized steel armor overall. Ideal for out-of-door speaker connection. A2404. PER FOOT 3c. 100 FOOT COIL \$2.46.

COMMUNICATION SYSTEM CABLE

High-grade cable for communication systems. Consists of No. 19 solid copper wire, double enameled, with cotton wrap, waxed color-coded cotton braid, twisted pair, and bare copper shield overall. A2414. PER FOOT 2c. 100 FOOT COIL \$1.76.



MATCHED IMPEDANCE TWISTED PAIR LEAD-IN

66.4 ohm twisted pair transmission line. Two No. 18 conductors covered with color-coded rubber and weatherproof outer braid. Designed to match most all-wave antennas and receivers. \$1.10 A2324. 75 Ft. Coll. \$6.98 A2325. 500 Foot Coll.

For additional listings of cable for transmission lines, aeriels, etc., see pages 163 and 165.

AERIAL WIRE BELDENENAMEL

High conductivity aerial wire. Ideal for all types of Broadcast, All-Wave, and Short-Wave aeriels. Belden-enamel insulation protects the wire from corrosion and atmospheric conditions.



7 x 22 ENAMELED

A2410, 75 ft.	38c
List, 64c. NET	
A2411, 100 ft.	49c
List, 83c. NET	
A2412, 150 ft.	72c
List, \$1.21. NET	
A2413, 1000 ft.	\$4.63
List, \$7.85. NET	

7 x 20 ENAMELED

A2415, 100 ft.	78c
List, \$1.33. NET	
A2416, 1000 ft.	\$7.57
List, \$12.85. NET	

SOLID ENAMELED

A2418, No. 10, 100 ft. NET	81c
A2419, No. 12, 100 ft. NET	55c
A2420, No. 14, 100 ft. NET	38c

STRANDED BARE AERIAL WIRE

Finest quality Belden stranded bare copper wire. Ideal for all types of aeriels. High conductivity; very little stretch. In continuous length coils.

7 x 22 WIRE

A2462, 50 FEET. NET	19c
A2463, 75 FEET. NET	.27c
A2464, 100 FEET. NET	.35c
A2465, 1000 FEET. NET	\$3.50

7 x 26 WIRE

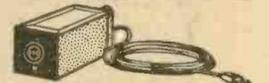
A2466, 50 FEET. NET	10c
A2467, 75 FEET. NET	14c
A2468, 1000 FEET. NET	\$1.75



ALL-RUBBER CORD SETS

The modern safe cord for replacement on lamps, radios, etc. Consists of Belden flexible all-rubber lamp cord with Belden unbreakable soft rubber plug. 7/8" ft. approved cord. Ends "Corditis".

A2447. EACH	16½c
10 FT.	\$1.48
A2448. Same as above but 12 ft. long. NET EACH	28c



BELDEN POWER LINE FILTER

A highly efficient inductive-capacitive type filter that eliminates interference reaching set through power line. Has 2 dual condenser sections and 2 dual high "Q" choke coils. Works with any set. Plug filter into power line outlet and plug set cord into filter receptacle. With 6 foot cord and plug. Size: 4"x3½"x3½". Shpg. wt., 2 lbs.

A2400. NET	\$4.41
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AERIAL 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 aeriels: single wire, doublet or cage-type, for All-Wave, Short-Wave, or Broadcast sets. Servicemen: take advantage of these low prices to increase your aerial wire profit.

STRANDED ENAMELED

7 STRANDS No. 22
Excellent for All-Wave aeriels.
A3444, 50 ft. coils. **23c**
10 for \$2.15. EACH

A3445, 100 ft.
10 for \$4.24. EACH **45c**

A3446, 200 ft.
10 for \$8.40. EACH **90c**

7 STRANDS No. 26
A fine value in a light wire.
A3447, 50 ft. **14c**
10 for \$1.25. EACH

A3448, 100 ft. **26c**
10 for \$2.40. EACH

A3449, 200 ft. **51c**
10 for \$4.75. EACH

7 STRANDS No. 20
Heavy-duty wire for long life.
A3434, 50 ft. **36c**
YOUR PRICE

A3441, 100 ft. **71c**
YOUR PRICE

A3442, 200 ft. **\$1.42**
YOUR PRICE

SOLID ENAMELED

Hard-drawn solid enameled copper wire for x-mitting or receiving.

No.	Gauge	Feet	NET EA.
A3450	10	100	\$0.79
A3451	10	200	1.55
A3452	10	500	3.80
A3453	12	100	.53
A3454	12	100	.99
A3455	14	100	.35
A3456	14	200	.68

STRANDED BARE

7 STRANDS No. 22
Standard size for all aeriels.
A3435, 50 ft. coils. **17c**
10 for \$1.59. EACH

A3436, 100 ft.
10 for \$3.09. EACH **33c**

A3437, 200 ft.
10 for \$6.15. EACH **66c**

7 STRANDS No. 26
An excellent buy in thin wire.
A3438, 50 ft. **8c**
10 for 75c. EACH

A3439, 100 ft. **15c**
10 for \$1.39. EACH

A3440, 200 ft. **30c**
10 for \$2.75. EACH

7 STRANDS No. 20
Heavy wire for added strength.
A3472, 50 ft. **28c**
10 for \$2.65. EACH

A3473, 100 ft. **55c**
10 for \$5.15. EACH

A3474, 200 ft. **\$1.10**
10 for \$10.30. EA.

PHOSPHOR BRONZE

Strongest aerial wire. Has high conductivity; non-stretching. Used commercially on ships.

No.	Size	Feet	NET EA.
A3460	7x22	100	\$1.10
A3461	7x22	200	2.10
A3462	7x24	100	.76
A3463	7x24	200	1.40
A3464	7x26	100	.60
A3465	7x26	200	1.10



HANDYCORD 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.

A3410, Brown. PER FOOT
A3412, Black. **1 1/2c**
A3413, Grey.
A3411, Ivory.
A3414, Green. **\$1.10**
PER 100 FEET.



RUBBER SERVICE CORD

Round flexible weather-proof cable. No. 18 (16/30) stranded wire conductors, each rubber covered and coded; with cotton wrapping and outer live rubber sheath.
A2435, 2 Cond. **2 1/2c**
100 ft. \$1.95.
A2436, 3 Cond. **3c**
100 Ft. \$2.45.

TEST-LEAD WIRE

Extra-flexible No. 18 test lead wire. Ideal for replacing worn-out test-prod leads or for making new test equipment. Made of 41 strands of No. 34 tinned copper wire, with waxed cotton wrapping, and 1/32" wall of rubber.
A2385, Red. **4 1/2c**
A2386, Black. **4 1/2c**
5 FOOT COILS, EACH
A2387, Red. **1c**
A2388, Black. **1c**
PER FOOT.

APPROVED CORD SET

An Underwriters' Approved cord for radios, lamps, fans, amplifiers, etc. 6 foot cord with rubber plug. An excellent value in a safe appliance cord.
A3498. YOUR PRICE **14c**

FLEXIBLE SPAGHETTI

For insulating bus bar wire, and condenser and resistor pigtail leads. Fine quality impregnated cambric tubing.
A2895, Black. Per 30' Lgth. **6c**
A2896, Yellow.
A2897, Red.
A2898, Green. **53c**
10 LENGTHS.

GIANT SPAGHETTI

Black cambric tubing, impregnated with oil varnish. 1/4" inside diameter, 36' long.
A2899, NET. **15c**
10 LENGTHS. \$1.25

BELL WIRE

No. 18 solid copper wire with a double cotton insulation, paraffin-impregnated.
A2440, 1/2 Lb. Coll. **16c**
NET
A2441, 25 Foot Coll. **6c**
NET



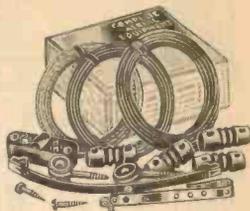
with 1/2" rubber insulation; glazed cotton braid overall.
A2494, 2 Conductor. **100 Ft. \$1.70**
500 Ft. **\$8.10**
1000 Ft. **\$15.40**

A2495, 3 Conductor. **100 Ft. \$2.15**
500 Ft. **\$10.15**
1000 Ft. **\$19.40**

SPECIAL VALUE AERIAL KITS

DE LUXE 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—screw-eye insulators; 1—lightning arrester; 1—window lead-in strip; 1—adjustable ground clamp. Easily installed in any location by following the complete, easy instructions packed with each kit. Shpg. wt., 6 lbs.
A3486. **63c**
NET



STANDARD AERIAL KIT

A real value in a complete aerial kit. Includes all materials for a "Marconi type" antenna for use with any receiver. Consists of: 90 feet of 7x26 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 strap-type ground clamp. Conveniently boxed with instructions. Shipping wt. 4 lbs.
A3485. YOUR NET PRICE. **37c**

ALL-PURPOSE LEAD-IN WIRE

TWISTED PAIR SHIELDED LEAD-IN



For all-wave and S. W. aeriels. No. 20 conductors; weather-proof insulation with closely woven copper shielding overall.

A2487, 50 Ft. Coils. **\$0.85**
A2488, 100 Ft. Coils. **1.62**
A2489, 250 Ft. Coils. **3.82**



WEATHERPROOF TWISTED PAIR

Low impedance transmission line. Two No. 22 stranded copper conductors, rubber-covered. Parafined braid overall.

A2434, 50 Ft. Coils. **\$0.46**
A2432, 100 Ft. Coils. **.89**
A2437, 250 Ft. Coils. **2.10**

RUBBER COVERED LEAD-IN WIRE

STRANDED

Stranded No. 18 rubber-covered lead-in wire. Flexible wire; very easy to work.

No.	Ft.	10 for	EACH
A3479	25	\$0.95	\$0.10
A3480	50	1.80	.19
A3481	100	3.30	.35
A3497	250	7.98	.84
A3482	1000		3.16

SOLID

High quality No. 16 rubber covered lead-in wire. Weatherproof.

No.	Ft.	10 for	EACH
A3475	25	\$1.14	\$0.12
A3476	50	2.18	.23
A3477	100	4.27	.45
A3467	250	10.65	1.11
A3478	1000		4.34

SHIELDED LEAD-IN

For broadcast use. No. 18 stranded tinned wire; rubber-covered; tinned copper braid overall.

A3492, 50 Feet. **49c**
YOUR PRICE
A3494, 100 Feet. **96c**
YOUR PRICE
A3499, 250 Feet. **\$2.38**
YOUR PRICE

LEAD-IN AND AERIAL WIRE

10 strands of No. 30 copper wire, insulated with Gutta Percha. Free-stripping.

No.	Length	NET
A3471	25 ft.	\$0.12
A3470	50 ft.	.23
A3469	100 ft.	.44
A3466	250 ft.	1.05
A3468	1000 ft.	4.05

INDOOR ANTENNA WIRE

For A.C.-D.C. and midget sets. Brown cotton covered. May be used under rugs, etc.
A3483, 100 Feet. **37c**
A3484, 25 Feet. **10c**
NET PRICE.

LITZ WIRE

Superior quality for low-loss coil winding. 10 strands No. 38 high conductivity copper, white double-silk covered.
A3401, 100 Ft. Spool. NET. **12c**
A3402, 1000 Foot Spool. **90c**

HOO-KUP & MAGNET WIRE - CABLES



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 stores, schools, laboratories, radio builders, experimenters, etc. Standard B. & S. Gauge. We can supply magnet wire in all sizes and types of insulation in larger quantities than listed below. Write for attractive prices which will save you money on quantity purchases of magnet wire. Plain Enameled, Double Cotton, or Double Silk types.

SINGLE COTTON ENAMELED MAGNET WIRE



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.

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
A3520	14	38	\$0.20	A3533	14	36	\$0.25	A3546	18	49	\$0.22
A3521	16	43	.23	A3534	16	61	.27	A3547	20	78	.23
A3522	18	101	.24	A3535	18	96	.29	A3548	22	126	.25
A3523	20	159	.26	A3536	20	150	.32	A3549	24	196	.28
A3524	22	253	.28	A3537	22	234	.34	A3550	26	310	.33
A3525	24	402	.26	A3538	24	362	.38	A3551	28	486	.40
A3526	26	640	.31	A3539	26	558	.52	A3552	30	775	.50
A3527	28	1013	.34	A3540	28	842	.61	A3553	32	1207	.65
A3528	30	1602	.38	A3541	30	1321	.79	A3554	34	1828	.89
A3529	32	2343	.41	A3542	32	1889	.90	A3555	36	2668	1.17
A3530	34	4042	.45	A3543	34	2746	1.14	A3556	38	2875	1.48
A3531	36	6410	.56	A3544	36	3801	1.40	A3557	40	5325	2.25

1/2 LB. SPOOLS			1 LB. SPOOLS			
No.	Ft.	NET	No.	Ft.	NET	
A3354	39	\$0.23	14	A3367	78	\$0.41
A3355	49	.24	15	A3368	98	.42
A3356	62	.25	16	A3369	124	.43
A3357	78	.26	17	A3370	156	.44
A3358	98	.27	18	A3371	198	.45
A3359	124	.28	19	A3372	248	.49
A3360	156	.29	20	A3373	312	.52
A3361	196	.30	21	A3374	392	.55
A3362	245	.31	22	A3375	490	.58
A3363	306	.32	23	A3376	772	.67
A3364	408	.33	24	A3377	936	.70
A3365	605	.41	26	A3378	1209	.73
A3366	938	.46	28	A3379	1876	.89

HANDY MAGNET WIRE SPOOLS



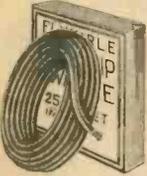
Quality magnet wire available in small quantities on handy marked spools. Double-cotton, double-silk and enamel types. Sleeve spool prevents tangling. Keep an assortment on hand. **YOUR PRICE ANY SPOOL**

13c

DOUBLE COTTON			DOUBLE SILK			PLAIN ENAMEL		
No.	Size	Feet	No.	Size	Feet	No.	Size	Feet
A2755	14	21	A2770	14	19	A2785	14	25
A2756	16	33	A2771	16	25	A2786	16	48
A2757	18	42	A2772	18	31	A2787	18	40
A2758	20	60	A2773	20	42	A2788	20	85
A2759	22	81	A2774	22	60	A2789	22	133
A2760	24	110	A2775	24	83	A2790	24	200
A2761	26	148	A2776	26	109	A2791	26	292
A2762	28	168	A2777	28	119	A2792	28	420
A2763	30	192	A2778	30	141	A2793	30	590
A2764	32	216	A2779	32	163	A2794	32	805
A2765	34	242	A2780	34	190	A2795	34	1150
A2766	36	266	A2781	36	219	A2796	36	1560
A2767	38	294	A2782	38	243	A2797	38	1980
A2768	40	325	A2783	40	275	A2798	40	2430

YOUR PRICE ANY SPOOL
Lots of 10 Assorted. NET **13c**
\$1.20

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 with a tensile strength that gives them unusual flexibility.

FIVE DIFFERENT COLORS

This wire is double-cotton covered with paraffin-treated damp-proof braid which pushes back easily. Available in five distinctive colors. Use a different color for each circuit for ready identification. Buy in quantities at our attractive low prices.

No. 20 SOLID 25 FOOT ROLLS

A3560.	Black.	PER ROLL
A3561.	Yellow.	10c
A3562.	Red.	
A3563.	Green.	
A3564.	Blue.	

10 FOR 91c.

No. 20 STRANDED 25 FOOT ROLLS

A3580.	Black.	PER ROLL
A3581.	Yellow.	11c
A3582.	Red.	
A3583.	Green.	
A3584.	Blue.	

10 FOR 97c.

100 FOOT ROLLS

A3565.	Black.	PER ROLL
A3566.	Yellow.	35c
A3567.	Red.	
A3568.	Green.	
A3569.	Blue.	

10 FOR \$3.29.

100 FOOT ROLLS

A3585.	Black.	PER ROLL
A3586.	Yellow.	39c
A3587.	Red.	
A3588.	Green.	
A3589.	Blue.	

10 FOR \$3.70.

1000 FOOT SPOOLS

Solid push-back wire as described above in 1000 ft. continuous rolls in any color listed. Specify color.

A3570. NET **\$3.29**

1000 FOOT SPOOLS

Stranded push-back hook-up wire in 1000 ft. lengths. Available in colors listed. Specify color.

A3590. NET **\$3.60**

No. 14 SOLID 25 FOOT ROLLS

High-voltage insulation. Ideal for transmitters, power packs, etc.

A2870.	Black.	PER ROLL
A2871.	Red.	29c
A2872.	Green.	
A2873.	Blue.	
A2874.	Yellow.	

100 FT. ROLLS. SPECIFY COLOR. NET EACH **\$1.02**

No. 18 SOLID 25 FOOT ROLLS

Heavier wire especially suited for use in filament circuits, etc.

A3394.	Black.	PER ROLL
A3395.	Red.	13c
A3396.	Green.	
A3397.	Blue.	
A3398.	Yellow.	

100 FT. ROLLS. SPECIFY COLOR. NET EACH **46c**

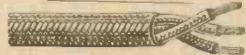
CABLES FOR EVERY PURPOSE

MULTI-CONDUCTOR STRANDED CABLES



Color-coded stranded conductors, each covered with rubber jacket with brown cotton braid over all.

No.	Cond.	10 Feet	100 Ft.
A3500	2	14c	\$1.10
A3501	3	20c	1.95
A3502	4	25c	2.45
A3503	5	35c	3.10
A3504	6	40c	3.50
A3505	7	50c	3.95
A3495	8	55c	4.95
A3496	9	60c	5.50



SHIELDING OVERALL

Tightly woven overall shielding of fine tinned copper wire. Each conductor color-coded and insulated with rubber. Any length.

No.	Cond.	Per Ft.	100 Ft.
A3507	2	3c	\$2.40
A3508	3	3 1/2c	2.95
A3509	4	4 1/2c	3.75
A3510	5	5c	4.35
A3511	6	6c	5.25
A3512	7	7c	6.15



EXTENSION CORDS

Flexible braid-covered cords with phone tips and connector.

A5555.	20 Ft. Cord.	NET 35c
A5556.	30 Ft. Cord.	NET 51c
A5557.	50 Ft. Cord.	NET 76c
A5558.	Extra Connector.	8c

HEADPHONE AND SPEAKER CORDS

Copper tinsel inner conductor covered with closely-woven cotton braid. Tips are firmly anchored.

SINGLE CORDS

A2932. 4 foot cord. Tips on one end; spades on other. For speakers.

A2933. 4 foot cord. Tips on both ends.

NET EACH **8c**
10 for 75c. 100 for \$7.15.

DOUBLE CORDS

A2934. Spades on one end. Tips on other. 5 foot cord.

A2935. Tips on both ends. 5 foot cord.

NET EACH **19c**
10 for \$1.75. 100 for \$16.95

CANNON RUBBER CORDS

Durable rubber head-set cord. 6 feet long.

A2936. NET **63c**

HIGH IMPEDANCE MICROPHONE CABLE



Low capacity, high-impedance microphone cable, shielded and rubber-jacketed. Conductor is of fine stranded No. 26 copper; extremely flexible. Low-loss. *A2469 is No. 20 stranded copper; for hard usage over short distances. 1 Per Ft.

SINGLE CONDUCTOR

No.	Capac. 1000 mfd.	Per Ft.	Per Ft.
A2499	24 mmf.	4c	\$3.25
A2481	26 mmf.	3 1/2c	3.10
A2469*	27 mmf.	2 1/2c	2.31
		4 1/2c	3.75

DOUBLE CONDUCTOR

A2498 30 mmf. 5 1/2c \$4.10



CARBON MIKE AND UTILITY CABLE

Heavy rubber jacket over tinned copper shielding. Ideal for outdoor and heavy duty service.

No.	Cond.	Per Ft.	100 Ft.
A3314	2	3 1/2c	\$2.65
A3315	3	4c	3.70
A3316	4	4 1/2c	4.85
A3317	5	5 1/2c	5.70
A3318	6	7 1/2c	6.85
A3319	7	8 1/2c	7.55

COLORED RUBBER HOOK-UP WIRE



Stranded tinned No. 20 copper wire with flexible rubber insulation.

25 FOOT COILS

A3572.	Red.	NET EACH
A3573.	Green.	13c
A3574.	Blue.	
A3575.	Black.	
A3576.	White.	

10 FOR \$1.02.

1000 FT. ROLLS. Specify color. NET **\$3.55**

No. 16 STRANDED

Current carrying cap., 6 amp.

A2744. Red. NET EACH **21c**

A2745. Black.

25 Foot Coils, Each

No. 14 STRANDED

Current carrying cap., 15 amp.

A2746. Red. NET EACH **31c**

A2747. Black.

25 Foot Coils, Each

No. 12 STRANDED

Current carrying cap., 20 amp.

A2748. Red. NET EACH **48c**

A2749. Black.

25 Foot Coils, Each

AMATEURS!

HERE'S YOUR BUYING GUIDE FOR 1940!

The following section is your complete directory to everything in Ham Radio. Here is the largest and finest selection of Ham equipment ever offered anywhere. Here is every new 1940 rig, receiver, and gadget—plus ALLIED'S complete listing of all standard lines of parts and accessories. Be wise, O. M.! Stick to ALLIED—the one, dependable source of all Amateur equipment.



430



Model 610 Power Pack. A compact, plug-in type power pack permitting operation of Model 430 or 438 receivers from a 6 volt storage battery. Complete, ready to use.
A14795. \$12.50 NET.



438

FAMOUS "HOWARD" AMATEUR RECEIVERS

MODEL 430. Designed to provide maximum performance for the beginning Amateur or Short Wave Listener with a limited budget. Developed and produced in the Howard Radio Laboratories, world-famous producers of quality radio receivers for many years. Combining streamline modern design with advanced circuits, and a high order of efficiency, the Model 430 is a 6 tube communication type receiver of which any owner can well be proud. Has continuous tuning from 540 KC to 40,000 KC in four frequency range bands, controlled by a range 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 traveling vertical marker for main tuning; separate bandspread indicator dial at side. Features include: Iron-core I.F.'s, Beat Oscillator with adjustable pitch control, Electrical bandspread, A.V.C., Send-Receive standby switch, Audio gain control, built-in dynamic speaker and power supply, and convenient grouping of all operating controls. Entirely self-contained in a small compact table cabinet finished in telephone black, trimmed in satin silver. For 110 volts, 50-60 cycles A.C. Shpg. wt., 15 lbs.

A14790. Complete with tubes. \$29.95 NET CASH PRICE.
 Time Payments: \$4.50 down, \$4.50 monthly for 6 months.

MODEL 460. This newly released Howard ten tube Superhet covers a tuning range from 43 MC to 540 KC in four bands, and incorporates a built-in Noise Limiter and Frequency Monitor. Noise Limiter is very effective in cutting down irregular interference such as ignition noise or atmospheric. New Frequency Monitor has separate drum dial with fundamental calibrations spread over 12" scale. Permits close reading and high accuracy for checking frequency, locating signals of known frequency, and for accurate bandspread pre-setting. Full-length, full-vision dial has separate scale for each frequency range, with separate 340 degree bandspread dial. Other features are: Ceramic coil forms, Vacuum tube voltmeter type "R" meter, Copper-plated chassis, Band-in-use indicator, Iron-core IF transformers, Universal antenna input, Phone jack, AVC, and Indirect dial illumination. Supplied in modern welded steel cabinet, with full set of tubes, and 8" dynamic speaker in matching metal cabinet. For 110 volts 50-60 cycles. Shpg. wt., 44 lbs.

A14793. Model 460, less crystal. \$79.95 CASH PRICE.
 Time Payments, \$8.00 down, \$6.36 monthly for 12 months.
A14794. Model 460, with crystal. \$89.95 CASH PRICE.
 Time Payments: \$9.00 down, \$7.15 monthly for 12 months.

MODEL 438. A more advanced model of the famous 430, with additional features that make it one of the finest of the medium-priced communication receivers. Full 8 tube circuit, with tuned R.F. stage on all bands, and two iron-core I.F. stages. Complete continuous tuning range from 540 KC to 43,000 KC in four bands; front panel range control switch and separate range-in-use indicator dial. Full-vision type slide-spread dial. Has built-in 6" dynamic speaker with 2 watt audio output; speaker muting type headphone jack. Power supply is built-in but Model 438 also has provision for use with 6 volt power supply where AC line is not available. Controls on front panel are: AC On-off switch, Beat oscillator pitch control, Range selector, Main tuning control, A.F. gain control, Bandspread tuning control, AVC On-off, Crystal In-Out. For 110 volts, 50-60 cycles. Shpg. wt., 24 lbs.

A14791. Model 438, less crystal. \$49.95 CASH PRICE, with tubes.
 Time Payments: \$5.00 down, \$5.96 monthly for 8 months.
A14792. Model 438 with crystal and tubes. \$59.95
 Terms: \$6.00 down, \$7.15 mo. for 8 mos. CASH PRICE.



460

HAMMARLUND MODEL HQ-120

The Hammarlund HQ-120 was designed to meet the most critical demands of both the Amateur and the professional operator. This ultra-modern 12 tube receiver covers a continuous tuning range of from 340 KC to 31 MC in 6 bands. Precise workmanship and selectivity, sensitivity, and stability are exceptionally high. Every feature essential for top performance has been incorporated. 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 produce 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. With 8" P.M. type speaker. Write for complete descriptive literature. For 110 volts 50-60 cycles AC. Wt., 47 lbs.

A14815. HQ-120, with tubes and speaker, less crystal. \$117.00 TERMS: \$11.70 down, \$9.30 mo. for 12 mos. CASH PRICE.
A14816. HQ-120-X, with tubes, speaker and crystal. \$129.00 TERMS: \$12.90 down, \$10.26 mo. for 12 mos. CASH PRICE.



Housed in sturdy black wrinkle finish cabinet. Size, 17 1/2" long, 10" high, and 12 1/2" deep; with carrying handles. Handsomely built.

Regularly supplied for operation from 105-120 volts, 50-60 cycles. Available for use on other voltages on special order. Write for prices.



THE HALLICRAFTERS SX-23

If you appreciate fine equipment, you'll get a real thrill out of operating this Hallicrafters creation. Features a new and improved wide-range selectivity circuit, controllable in six steps from needle-sharp crystal action to broad high fidelity, plus the improved type noise limiter circuit which provides remarkably high signal-to-noise ratio. An entirely new arrangement of eight bands provides continuous tuning from .54 to 32 MC (9.4 to 555 meters). Bands 1-2-3-4 are general coverage from 9.4 to 555 meters, while Bands 5-6-7-8 are the band-spread 10, 20, 40, 80 meter Amateur bands. All Ham bands are spread out over the major portion of the 330 degree tuning dial. Frequency range indicator and signal meter calibrated in "S" units and decibels balance the tuning dial with its multiple scales and large, easily legible figures; all indirectly illuminated. Other features include: Tuned R.F. Stage; Amplified AVC; Iron-core 455 KC IF's; BFO Pitch Control; Tone Control; Phone Jack; RF and AF Gain Controls; Noise Limiter; On-Off Switch; Standby Switch; Controllable Selectivity; Crystal Filter with Phasing Control; Audio Output of 5 Watts; etc. Tubes used are 3-6SK7, 2-6SJ7, 1-6SA7, 1-6SQ7, 1-6B8, 1-6P6G, 1-6H6, and 1-80. Size, 19" long, 12 1/2" deep, 9 1/4" high. For operation from 110 Volts, 60 cycles A.C.

Shpg. wt., 56 lbs.
A14775. SX23. Less speaker. CASH PRICE \$115.50
 Terms: \$11.55 down, \$9.19 month for 12 months.
A14776. SX23. Complete with speaker. \$127.50
 Terms: \$12.75 down, \$10.14 month for 12 months.



HT-7 FREQUENCY STANDARD

An all-purpose calibrating instrument for all types of frequency checking in the "Ham" station. Consists of a stable crystal oscillator providing either 100 or 1000 KC output, plus a 10 KC multivibrator and harmonic amplifier. A real necessity under the new F.C.C. regulations.
A14788. COMPLETE. \$295.00
NET CASH.
 Time Payments: \$4.43 down, \$4.43 monthly for 6 months.

The Latest Model "SKY BUDDY"



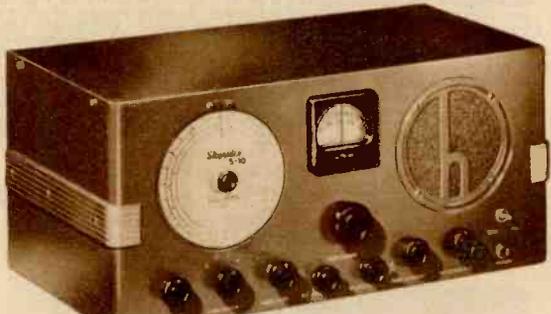
NOW WITH ELECTRICAL BANDSPREAD! TUNES THE 10 METER BAND . . .

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 features, greater performance and greater value than ever before. Tunes with full electrical band-spread from 545 KC to 44,000 KC in four bands as well as the standard Broadcast and Short-Wave Broadcast bands. Features are comparable to those usually found only in higher-priced receivers: separate band-spread dial, Beat Frequency Oscillator, phone switch, separate band-spread, Pitch control, AF gain control, phone switch, AVC switch, etc. Has built-in speaker offering excellent tone quality. The Sky Buddy uses only six tubes—1-6K8G, 2-6K7G, 1-7G, 1-41, and 1-80—but its performance is characteristic of most 8 tube sets. Antenna input for either doublet or Marconi type antenna systems. Headphone jack cuts out speaker when 'phones are plugged in. Although supplied for AC operation, the Sky Buddy is also equipped with a simple plug and socket arrangement at the rear which permits the use of a 6 volt storage battery and "B" batteries or vibrator power pack for portable use, or in remote areas where AC lines are not available. The Sky Buddy is a true communication-type receiver at low price. For 110 V. 50-60 cycles A.C. Shpg. wt., 20 lbs.
A14770. Model S19-R With tubes. \$295.00
NET CASH PRICE.
 Time Payments: \$4.43 down, \$4.43 monthly for 6 months.



THE NEW "DEFIANT" MODEL SX-24

MODEL SX-24. Incorporating many features developed in the famous Hallicrafters Laboratories and previously available only in the SX-23, this new and economically priced communication receiver is truly an outstanding performer. Frequency Meter Tuning is provided by means of two translucent illuminated tuning dials, one for main tuning control and one for the electrical band-spread system, and both directly calibrated. Built-in Noise Limiter, Carrier level meter calibrated in "S" units and DB, Crystal to Broad IF, 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 performance. TRF stage and two high-gain IF's provide ample sensitivity and selectivity. External terminals from stand-by switch for break-in relay control. Supplied complete with tubes. For 110 volts, 50-60 cycles. Size, 19 1/2" x 9 1/2" x 10 1/2".
A14773. MODEL SX-24, less speaker. \$69.50
CASH PRICE.
 Time Payments: \$6.95 down, \$8.29 monthly for 8 months.
A14774. MODEL SX-24, with speaker. \$81.50
CASH PRICE.
 Time Payments: \$8.15 down, \$6.48 monthly for 12 months.
142A14777. 12" PM Speaker matching metal cabinet. \$12.00



THE FAMOUS SKYRIDER 5-10

The Sky Rider 5-10 was specifically designed to render exceptionally efficient performance on the ultra high-frequency range in two bands from 27,000 KC to 68,000 KC. It is ideal for the Amateur who specializes in ultra H. F. work, and for Municipal Dept. communications service. Uses new RK1852 tube as RF amplifier, offering U. H. F. sensitivity of better than 1 Mv. 1600 KC IF stage provides band width of 30 KC at 10 times down. This unusual combination of sensitivity and selectivity is only one of the features which make the Sky Rider 5-10 outstanding. Other features include: noise silencer; A.V.C. switch; send-receive switch; R.F. and A.F. gain controls; Beat Frequency Oscillator; Tone Control; Pitch Control; phone jack; built-in speaker, etc. Powerful new 8 tube circuit employs: 1-1852, 1-6L7, 1-6J5, 1-6K7, 1-6P7G, 1-6B16, 1-6P6, 1-80. Separate bandspread dial provides easy, accurate logging and is equipped with inertia tuning control. Equipped with simple plug and socket arrangement for operation from 6 volt storage battery and "B" batteries or from vibrator power pack. For operation from 110 V. 50-60 cycles. Supplied with tubes. Has "S" meter terminals. Shpg. wt., 34 lbs.
A14783. Model 5-21. With Tubes. \$69.50
NET CASH PRICE.
 Time Payments: \$6.95 down, \$8.29 monthly for 8 months.

Hallicrafters

THE SUPER-SKYRIDER SX-17

Originally available only as a "Custom" receiver to a limited number of Amateurs, the SX-17 has earned its top-flight ranking in the field by reason of its high performance under all types of service. Created by popular demand, the SX-17 is outstanding in performance, distinctive in modern styling, unbelievable in its selectivity, tone quality and sensitivity. What's more, it offers you every desirable feature of advanced design in engineering and operating flexibility. Here is complete, continuous tuning from the top of the Broadcast band down to 5 meters, from 545 to 62,000 KC. A unique dual tuning system makes the Super-Skyrider the easiest tuning receiver you've ever handled. A directly-calibrated six-band dial with automatic band indicator tells at a glance just what portion of the tuning range it's set to receive. The exclusive Hallicrafter 1000 degree spiral bandspread dial separates closely crowded stations with astonishing ease. Iron-core I. F. stages with Broad and Sharp I. F. expander assure tremendous selectivity. Important, too, is the average over-all sensitivity of better than 1 microvolt for all bands! Has two stages of tuned pre-selection and built-in Automatic Noise Limiter. Imagine the ease and flexibility of operation possible with flywheel tuning. AVC on-off switch, beat oscillator pitch control, variable beat oscillator injector, RF and AF gain controls, send-receive switch, phasing control for I. F. and crystal stage, crystal in-out switch, headphone jack, directly calibrated signal meter, tone control, external terminals for break-in relay control, Broad and Sharp selectivity control, extremely high signal-to-noise ratio, and dynamically-balanced electro-mechanical bandspread tuning. Uses 13 tubes: 2-6K7-RE, 6L7-1st Det., 6K7-1st IF, 6K7-2nd IF, 6R7-2nd Det., AVC-1st Audio, 2-6V6G-PP Power Output, 6J5-H. F. O., 6J7-Meter Amplifier, 6J7-B. F. O., 6J5-Noise Suppressor, and 5Z3-Rectifier. For 110 V. 50-60 cycles. 12" PM speaker to match receiver is also housed in modern black and chrome cabinet. Shpg. wt., 82 lbs. With tubes. See right for prices of various combinations, including attractive Time Payment terms.



IT'S EASY TO BUY YOUR S-17 NOW!

Why struggle along with an outmoded receiver that can't cope with present day operating conditions? You can get your S-17 or SX-17 now for only a few dollars down, and spread the balance over 6, 8, or 12 months. Easy payment terms for 12 months given below; but if you prefer, similar easy terms can be arranged for shorter periods of time.

A14778, S17. Less speaker and crystal. Terms: \$12.55 down, \$9.98 mo. for 12 mos. CASH.....	\$125.50
A14779, S17. With speaker, less crystal. Terms: \$13.75 down, \$10.93 mo. for 12 mos. CASH.....	\$137.50
A14780, SX17. With crystal, less speaker. Terms: \$13.75 down, \$10.93 mo. for 12 mos. CASH.....	\$137.50
A14781, SX17. With crystal and speaker. Terms: \$14.95 down, \$11.69 mo. for 12 mos. CASH.....	\$149.50

THE POPULAR SKY-CHAMPION

Meet the Sky Champion!—a real winner for quality performance—a blue-ribbon 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. 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 545 KC to 44,000 KC for dependable reception on Broadcast, Amateur, and Short-Wave bands. Eight tubes: 2-6K7, 6L7, 2-6J5, 6Q7, 6F6, and 80—are arranged in a modern circuit which provides maximum gain, selectivity, and sensitivity. Speaker is built in—there's nothing else to buy. Signal-to-noise ratio is surprisingly high. In fact, in every way, the Sky Champion is a super-efficient low-priced receiver that will put a real thrill into SW DX-ing or Amateur operation. It offers you professional styling, conveniently grouped controls, operating flexibility, and above all, precision workmanship and performance that are truly outstanding. Has provisions for operating from batteries or from vibrator type power pack and 6 V. storage battery. For 110 V. 50-60 cycles A.C. Shpg. wt., 34 lbs.

A14771, S-20. With Tubes. **\$49.50**
NET CASH PRICE.
Time Payments: \$4.95 down, \$5.90 monthly for 8 months.



THE SKYRIDER MARINE MODEL

A new, improved model of an 8 tube receiver for special communication requirements such as Marine and Aircraft service, for Jewelers, Press stations, and other services which require dependable reception on frequencies from 140 KC to 18.5 MC. In its design, especial emphasis has been placed on 600 meter and 700 meter operation. Tunes from 16.2 to 2150 meters (18.5 MC to 140 KC) on 4 Bands. Uses: 2-6K7, 2-6J5, 1-6L7, 1-6Q7, 1-25L6, and 1-25Z5 tubes. Incorporates many features such as: Built-in speaker, AVC, Beat Oscillator, Tone and Volume Controls, RF gain control, Phone jack, and Stand-by switch. Sensitivity and selectivity are excellent; I.F. selectivity only 18 KC wide at 10 times down. Improved image rejection at the higher frequencies is achieved through the use of 1600 KC-1.F. transformers. Directly-calibrated 338° Main Tuning Dial; efficient mechanical band-spread with separate dial provides easy and simplified tuning. Mounted in sturdy metal cabinet finished in black crystal. This efficiently-designed, ruggedly-built communications type receiver is one of the Hallicrafters finest. For 110 Volts AC or DC operation; with tubes and built-in speaker. Shpg. wt., 50 lbs.

A14772, Model S-22. **\$64.50**
NET CASH PRICE.
Time Payments: \$6.45 down, \$7.69 per month for 8 months.

MODEL HT-6 25 WATT TRANSMITTER

It's been tried before, but only The Hallicrafters could give you the successful HT-6! It's a transmitting instrument of quality throughout, capable of an average power output of 25 watts on any Amateur Band from 1.7 to 60 MC. for either Phone or CW. Coils for any three bands may be plugged in and pre-tuned with a separate crystal for each band; band-switching is a matter of twisting a front panel knob to switch all circuits from the crystal to the antenna. Plug-in coils for use with crystals operating on fundamental frequency are available for 160, 80, 40, and 20 meters. (Slight additional charge for 10 and 5 meter coil sets.) Electron-Coupled units for the oscillator are available for each of the 160, 80, 40, and 20 meter bands at small extra cost. Tubes used are: 1-6L6 Osc.-Dblr., 1-RK39 R.F. Power Amplifier, 1-6F5 Mike Preamplifier, 1-6J5 Audio Amplifier, 2-6L6G Class AB Modulators, and 2-5Z3 Rectifiers. Size: 20" long, 12" deep, 9" high. For 110 V. 50-60 cycles A.C. Shpg. wt., 75 lbs.

A14785, HT-6 Transmitter, with all tubes, less coils and crystals. **\$99.00**
NET CASH PRICE.
Terms: \$9.90 down, \$7.87 monthly for 12 months.
A14786, Complete with tubes and coils for three bands, less crystals. (Specify three bands desired from choice of 160, 80, 40, and 20 meters.) **\$113.85**
NET CASH PRICE.
Terms: \$11.39 down, \$9.05 monthly for 12 months.
(Write for complete descriptive literature on HT-6.)

WORLD **NE** FAMOUS
NATIONAL
 Communication Receivers



NC-101X AMATEUR MODEL

An unusually efficient 11 tube Communications Receiver designed exclusively for use on the Amateur bands. Micrometer type dial with 500 divisions and worm gear drive, together with special coil assembly provides maximum bandspread on each band. Has tuned RF stage and two high-gain IF stages for high selectivity and sensitivity with crystal filter for use when QRM is heavy. Carrier level meter calibrated in S units. With tubes and 10" P.M. speaker. For 110 volts 50-60 cycles. Shpg. wt., 71 lbs. One of the most popular and efficient Ham Receivers in the famous "National" line.

A14843. CASH PRICE..... \$12900
 Time Payments: \$12.90 down, \$10.26 monthly for 12 mos.
 NOTE: The NC-101X is also available with direct-reading dial as used on NC-100A at same price. Specify NC-101XA on order if desired with direct-reading type dial.



NATIONAL NC44 RECEIVER

The NC-44 Communication Receiver combines capable performance with low price. It employs seven tubes in a superheterodyne circuit. The 6K8 first detector and oscillator has exceptional stability and conversion gain. Other circuit features are: Two 450 KC IF stages, second detector and AVC tube, CW oscillator, and 25L6G beam-power tube with 2 watts output. There are separate controls for RF and AF gain, and on-off switches for the AVC and BFO circuits. The self-contained power supply operates on 105-130 volts A.C. or D.C. A straight-line frequency condenser is used in conjunction with separate bandspread condenser. This combination, plus the full-vision dial calibrated in frequency for each range covered and a separate linear scale for the bandspread condenser, makes accurate tuning easy. Both condensers have an inertia-type drive. A coil switch with silver-plated contacts selects the four ranges from 550 KC to 30 MC. Provision is made for either headphone or speaker operation. Shipping weight, 45 lbs. Housed in an attractive, dust-proof steel table type cabinet finished in black wrinkle enamel. With tubes. Speaker is mounted in matching metal cabinet. The "Leader" in the "National" line of world-famous Communications Receivers.

A14806. NET CASH PRICE..... \$4950
 Time Payments: \$4.95 down, \$5.90 monthly for 8 months.

NC-44B. A battery model of the NC-44 for those who have no A.C. or D.C. supply lines. Operates from a 6 Volt storage battery and "B" batteries. With tubes and speaker. Less batteries.

A14807. NET CASH PRICE..... \$4950
 Time Payments: \$4.95 down, \$5.90 monthly for 8 months.



NC-80X. A Communications receiver for operation from any 110 volt A.C.-D.C. line. Tunes 550 KC to 30 MC in four bands. Band switching is controlled from the front panel. New type full-vision dial with multiple scales is accurately calibrated, making tuning and "logging" easy. The NC-80X is equipped with a crystal filter continuously variable from 400 CPS to 5 KC for sharp tuning. Uses 1-6L7, 2-6J7, 3-6K7, 1-6CS, 1-6B8, 1-25L6G, and 1-25Z5 tubes. Beam power output tube (25L6G) supplies 2 watts undistorted to P.M. speaker. Features include AVC, 16 to 1 and 80 to 1 tuning ratios, linear scales, BFO, etc. Complete with tubes, crystal and 8" P.M. speaker in metal cabinet. Wt., 60 lbs.

A14808. NET CASH PRICE..... \$9900
 Time Payments: \$9.90 down, \$7.87 monthly for 12 months.

SPECIAL AMATEUR BAND NC-81X RECEIVER

Similar to the Model NC-80X as described above, but tuning range covers only the 160, 80, 40, 20, and 10 meter Amateur bands with adequate bandspread. For 110 V. A.C. or D.C. With tubes and 8" P.M. speaker.

A14809. NET CASH PRICE..... \$9900
 Time Payments: \$9.90 down, \$7.87 monthly for 12 months.



NC-100A SERIES. An amazingly efficient 11 Tube Superhet with a frequency range of from 540 to 30,000 KC in five bands. Incorporates the efficiency of plug-in coils with smooth, rapid band-change switch. Panel controls are: Band-switch; AVC-Volume-BFO switch; AC on-off and standby switch; RF and AF gain control; Tone Control, etc. Full-vision dial is calibrated in megacycles, with separate high-speed vernier scale for precision tuning. Built-in tuned R.F. stage operates on all bands. Also has built-in hum-free power supply. Has signal level meter calibrated directly in "S" units. Antenna input for single wire or doublet antenna. Black wrinkle finish cabinet. 10" P.M. speaker supplied in matching metal cabinet. With tubes. Shpg. wt., 71 lbs. For 110 volts 50-60 cycles A.C. operation. One of the finest of Ham receivers.

NC-100A. AC MODEL. \$12000
A14840. CASH PRICE.....
 Time Payments: \$12.00 down, \$9.54 monthly for 12 months.

NC-100AB. BATTERY MODEL. For operation from 6 volt battery and B batteries. Complete with speaker and tubes; less batteries.

A14841. CASH PRICE..... \$11050
 Time Payments: \$11.05 down, \$8.80 monthly for 12 months.

NC-100XA. AC MODEL WITH CRYSTAL FILTER.
A14842. CASH PRICE..... \$14250
 Time Payments: \$14.25 down, \$11.33 monthly for 12 months.



NHU. A new and ultra-efficient Communications type superheterodyne receiver for Ultra High-Frequency work. Has tuning range from 27 MC to 62 MC in three bands. Full-vision type dial is accurately calibrated in megacycles for each band. Unique control of tuning and band-changing is accomplished by single tuning knob with sliding gear. Inertia type tuning dial with ratio of 70 to 1. Uses 956 in R.F. stage, 934 first detector, and 955 H.F. oscillator. Also incorporates a CW oscillator, a new type of AVC circuit, a vacuum tube voltmeter type "S" meter calibrated to provide accurate indication of signal level. The NHU has been carefully and accurately designed to provide optimum performance in the Ultra High Frequency ranges. With tubes and 8" P.M. speaker, in cabinet, less power supply.

\$16500
A14844. NHU MODEL. CASH PRICE.....
A14845. NHU-B. Same as above but for battery operation. \$16500
CASH PRICE.....

A14846. Type 5856 Power Pack for NHU. For 110 volt 50-60 cycles. NET..... \$1770
 Time payment terms are shown on page 145.



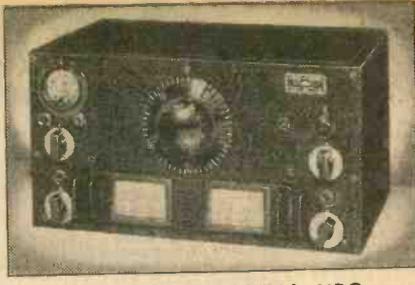
BROWNING VISUAL FREQUENCY MONITOR

Built to the most exacting requirements to answer the problem of precise frequency measurement on the Amateur bands. Basically a heterodyne frequency meter with built-in mixing circuit. Incorporates a highly stable 100-1000 KC oscillator which can be easily checked against WWV, and three other separate oscillators covering the Amateur 160, 80, 40, 20, 10, and 5 meter bands. Calibrated 5 1/2 inch laboratory type dial permits accurate frequency checking as close as 2 KC at 14 MC. Electric eye provides visual indication of zero beat; also indicates frequency deviation of carrier. Operates from 110 volt AC or DC. Extremely flexible in operation and can be read directly without charts or computations. Complete with tubes. Shpg. wt. **\$3135**

A10670 NET \$3135
T.P.: \$470 down, \$47.10 mo. for 6 mos.

100-1000 K.C. STANDARD
The "heart" of the Browning Frequency Monitor, a highly stable EC coil unit is available separately for those who prefer to build their own 100-1000 KC standard. In 2"x2"x5" shielded can; with "Silver Cap" padders.

A10681 \$345
BL2FS. NET



FAMOUS NATIONAL HRO

World-famous for performance; built to meet the most exacting of communication requirements. HRO's can be found in daily use the world over by top-ranking Amateur and Commercial stations. With two preselector stages providing remarkable image suppression and high Signal-to-Noise ratio and two high-gain air-tuned IF stages with Litz-wound coils, the usable sensitivity and selectivity are exceptionally high. Other circuit details include manual and automatic volume control; vacuum-tube-voltmeter type carrier level indicator with meter calibrated in "S" units; single-signal crystal filter with wide-range adjustable selectivity; single micrometer-type dial tuning with 20-to-1 gear drive; extreme bandspread that spreads each Amateur band (except 160 meters) over 400 divisions of the 500 division dial; ganged, pretuned coil assemblies; stand-by switch; and simple switching device to convert coils for general coverage use. Supplied complete with coils covering 1.7 MC to 30 MC, and full set of tubes (3-6C6, 4-6D6, 1-6B7, 1-42). Requires power supply listed below. Shpg. wt., 62 lbs.

A14802, HRO Standard, less power supply and speaker. **NET \$17970**

A14803, No. 697 Power Pack with 80 tube. For 110 V. 50-60 Cycles. Wt., 15 lbs. **NET \$15.90**

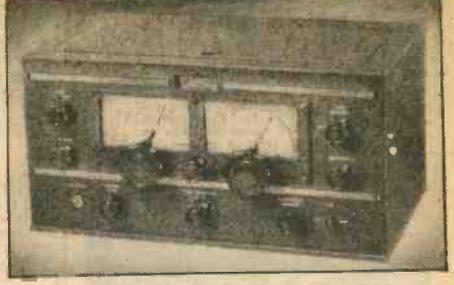
A14804, MCS 8' PM Speaker in matching metal cabinet. **NET \$14.10**

A14805, HRO Standard receiver with No. 697 power pack and MCS speaker. **\$20970**
NET
T.P.: \$20.97 down, \$16.67 monthly for 12 months.

ADDITIONAL HRO COILS

A1407, 50-100 KC.	\$22.50
A1408, 100-200 KC.	18.00
A1404, 175-400 KC.	16.50
A1405, 500-1000 KC.	12.00
A1406, 900-2000 KC.	12.00

WE CAN ALSO SUPPLY HRO Jr. receiver, as well as HRO STANDARD receiver with rack mounting, or special HRO rack mounted units with coil racks, power supplies, and speaker.



RME-70 & RME-69 RECEIVERS

Here it is, the precision communication receiver with features galore—features that were formerly available only in the RME-69, as optional and at extra cost. The RME-70 brings you peak performance—precision craftsmanship—selected highest quality components—and an overall order of efficiency that will put pep and thrills into your operating hours. Handsomely and attractively housed in a metal table cabinet, the RME-70 features larger illuminated dials and a larger and more legible signal meter calibrated in "R" units and decibels. Non-fatiguing controls with smooth backlash-free gear drive permit finger-tip hairline tuning. Main dial accurately calibrated from 550 to 32,000 KC in six bands; bandspread dial marked 0 to 180 for logging accurately. Uses 11 tubes: 5-6K7G, 1-6J7G, 1-6K7, 1-6F6, 1-6H6, 1-6A6, and 1-80. Built-in Noise Limiter; break-in control terminals on rear of chassis, R.F. resonator control, and variable selectivity crystal filter all help to make operation flexible. For 110 volts 60 cycle AC. Shpg. wt., 65 lbs.

A14810, RME-70, with tubes, less speaker. **CASH PRICE \$12675**
Terms: \$12.68 down, \$10.08 monthly for 12 months.

A14811, RME-70 with tubes and 8' speaker in matching cabinet. **\$138.60**
CASH PRICE
Terms: \$13.86 down, \$11.02 monthly for 12 months.

RME-70 & DB-20 COMBINATION

Here's a complete receiver-preselector combination that will really "go places" when it comes to turning in peak receiving performance. Consists of the RME-70 receiver and famous DB-20 Preselector mounted side by side in one cabinet, 28 1/2" long, 10 1/4" wide, 9" high, in either black or grey wrinkle finish. Complete with tubes, less speaker. **\$169.35**

A14812, NET CASH \$169.35

A14813, Speaker in metal cabinet. **NET \$11.85**

SEND FOR COMPLETE LITERATURE describing the RME-70 and RME-69 receivers and combinations, DB-20 Preselector, DM-36 and DM-36A Expanders, and other RME Products.

The Easiest Amateur TIME PAYMENT PLAN Ever Offered!

SEND US YOUR ORDER WITH DOWN PAYMENT

The purchase of Amateur equipment on Time Payments ordinarily requires more careful consideration than would be necessary if the same equipment were purchased for cash, in order to avoid excessive charges. ALLIED'S Amateur Division now offers the most economical plan available—designed for your protection with lower down payment requirements and lower service charge than ever before. Before you buy, add together the total of monthly payments and down payment, and subtract the normal cash price; the difference is the service charge you pay. You'll find the ALLIED Plan will save you money on the total Time Payment purchase price.

HOW TO ORDER ON TIME

1. Send us your order with down payment; include the names and addresses of your employer and three business houses from whom you have previously received credit.
2. When we receive your order and down payment, we send you a Time Payment Contract for your signature, and check your credit.
3. Your signed contract is received by us at approximately the same time we complete our credit check. When our Finance Company approves your contract, we make immediate shipment.

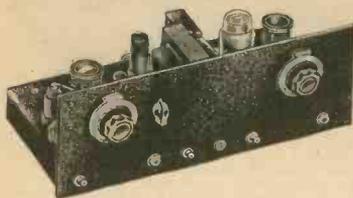
HERE ARE OUR TERMS FOR THE LEADING AMATEUR EQUIPMENT

Description	Cash Price	Down Pay.	No. of Months	Monthly Payments	Description	Cash Price	Down Pay.	No. of Months	Monthly Payments
Hallcrafters Sky Buddy	\$ 29.50	\$ 4.43	6	\$ 4.43	National NC-44	\$ 49.50	\$ 4.95	8	\$ 5.90
Sky Champion	49.50	4.43	8	4.95	NC-80X	99.00	9.90	12	7.87
Marine	64.50	6.45	8	7.69	NC-81X	99.00	9.90	12	7.87
Defiant SX-24	69.50	6.95	8	8.29	NC-100A	120.00	12.00	12	9.54
Defiant & Spkr.	81.50	8.15	12	6.48	NC-100AB	110.50	11.05	12	8.80
5-10	69.50	6.95	8	8.29	NC-100XA	142.50	14.25	12	11.33
S-17	125.50	12.55	12	9.98	NC-101X	125.00	12.50	12	10.26
S-17 & Spkr.	137.50	13.75	12	10.93	HRO, pack & Spkr.	165.00	16.50	12	13.12
SX-17	137.50	13.75	12	11.89	NTE-A Exciter	129.00	12.90	12	10.26
SX-17 & Spkr.	149.50	14.95	12	9.19	NTE-B Exciter	129.00	12.90	12	10.26
SX-23	115.50	11.55	12	10.14	NTX-30 Table type	117.00	11.70	12	9.30
SX-23 & Spkr.	127.50	12.75	12	4.43	NTX-30 Rack type	123.00	12.30	12	9.78
HT-7 Standard	29.50	4.43	6	4.50	Melssner Stand. Sig-Shifter with tubes	41.28	4.13	8	4.93
Howard 430	29.95	4.50	6	5.15	Deluxe Sig-Shifter with tubes	49.02	4.90	8	5.85
438 less crystal	49.95	5.00	8	7.15	Hallcrafters HT-1 Transmitter	195.00	19.50	12	15.50
438 with crystal	59.95	6.00	8	6.36	HT-2 Transmitter	175.00	17.50	12	13.91
460 less crystal	79.95	8.00	12	7.15	HT-6 Transmitter	113.85	11.39	12	9.05
460 with crystal	89.95	9.00	12	9.30	Triplet Mod. Monitor	32.24	4.81	6	4.84
Hammarlund HQ-120	117.00	11.70	12	10.26	Table Model	33.00	4.95	6	4.96
HQ-120X	129.00	12.90	12	10.08	Rack Panel Model				
RME-70 less speaker	126.75	12.68	12	11.02					
RME-70 with speaker	138.60	13.86	12	4.11					
Browning Freq. Mon.	31.35	4.70	6	5.04					
Guthman Freq. Mon.	33.52	5.03	6						

NOTE: Similar terms can be arranged on any new equipment released by various manufacturers after publication of this catalog. Use this table as a guide, or write to us for full details. Use ALLIED'S Time Payment Plan and Save Money!

AMATEUR RAINBOW MITTERS

KNIGHT "JUNIOR" AMATEUR STATION



EASY-TO-BUILD COMPLETE TRANSMITTER-RECEIVER KIT

Designed with the requirements of the beginning Amateur in mind—ALLIED proudly offers this complete Amateur CW station 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, complete power supply, and a modern crystal-controlled CW transmitter using a 6L6G tube with up to 25 watts output to the antenna!

GET ON THE AIR AT LOW COST!

Every necessary part is supplied: chassis and panel drilled and finished, all parts and hardware, even a high quality 80 meter crystal and holder and all tubes! Full instructions and diagrams included. Coil forms and wire are supplied for receiver and transmitter for the 80 meter band. Receiver is regenerative Autodyne type with 6J7 and 6C5 metal tubes. Transmitter puts out pure 79X 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.

A9537. COMPLETE KIT. Includes every necessary part, tubes, and 80 meter crystal. **NET..... \$24.50**



THE UTAH JUNIOR

A complete kit to build a low-power CW rig with power output up to 25 watts. Uses 1—6F6 or 6L6 in a crystal-controlled harmonic oscillator, and 1—5Z4 rectifier. Has built-in power supply. Operates on all two or more bands with one crystal. Has tuned antenna coupling. Requires one 2-inch 0-100 MA meter. 12x7x10". **A9863.** Less tubes, crystal, and meter. **Wt., 19 lbs. NET..... \$15.95**

A9857. Accessory Kit. Contains: 1—RCA 6L6 and 1—RCA 5Z4 tubes, 1—Triplet 2-inch 0-100 MA meter, and 1—Knight crystal for 160 or 80 meter band. **NET..... \$7.40**

FAMOUS NATIONAL 600 WATT TRANSMITTER KIT

Sa OM, if you're looking for the latest thing in transmitter kits, stop looking right here, for the National 600 is tops when it comes to performance, professional styling, ease of construction, and simplicity of operation. Bandswitching type NTE exciter provides adequate driving power for the 35T buffer and 203Z modulators. Power? You bet! With up to 600 watts input to the push-pull 100TH'S in the final stage, you can go places with either 'Phone or CW. Hook 'er up to a good sky wire, and you won't have to take a back seat even for the "California Kilowatts." But performance alone isn't everything—you want dependability, too! Big husky Thordarson CHT transformers and chokes, Aerovox oil-filled filter condensers, National condensers, sockets, and coils, and every part chosen for its ability to stand up under service—that's your assurance that when you throw switches, you're "on the air" without a hitch. Construction is a cinch; panels and chassis are drilled and finished, and all small parts furnished, as well as complete instructions. We could fill a couple of pages telling you about the National 600, and still leave the story only half told. Drop us a card, and we'll send you a sixteen page descriptive booklet.

COMPLETE R. F. UNIT KIT. Contains panel, chassis, meters, dials and all parts. Uses 1—35T and 2—100TH tubes. **A9501.** Complete, less tubes. **NET..... \$76.60**

COMPLETE MODULATOR UNIT KIT: Contains panel, chassis, transformers, meter, all parts, and hardware. Uses 2—203Z tubes. **A9503.** Complete, less tubes. **NET..... \$43.48**

COMPLETE MEDIUM VOLTAGE POWER SUPPLY KIT: Contains all transformers, chokes, condensers, panel, and chassis. Uses 2—866 tubes. **A9505.** Complete, less tubes. **NET..... \$52.98**

HIGH VOLTAGE POWER SUPPLY KIT: Contains all transformers, chokes, condensers, parts, meter, panel, and chassis. Uses 2—866 tubes. **A9507.** Complete less tubes. **NET..... \$81.35**

COMPLETE TRANSMITTER KIT

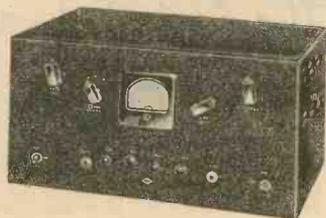
For those who prefer to purchase the entire National 600 Watt Transmitter at one time on our convenient Time Payment Plan, we offer a COMPLETE kit, including all accessories. Includes the four kits listed above (A9501, A9503, A9505, and A9507), a fully enclosed black wrinkle finish Deluxe Steel Cabinet (A14701 on page 166), all tubes (1 Eimac 35T, 2 Eimac 100TH, 2 Taylor 203Z, and 4 Taylor 866), NTE-A or NTE-B Exciter unit (described below) with black wrinkle finish rack panel and complete with tubes and four unmounted 80 meter crystals, all necessary wire, cable, and instruction book.

A9513. Complete National 600 Watt Transmitter Kit. NET..... \$457.50

Time Payments: \$45.75 down, \$36.37 mo. for 12 months.

NTE EXCITER UNITS

An ultra-modern exciter unit that provides sufficient RF excitation for any low-power or medium-power buffer stage, plus a 15 watt speech amplifier, housed in a single table style cabinet. Used in the famous National 600 Watt Transmitter described above, it represents an ideal basic unit for any Amateur station. Ingeniously designed to prevent stray coupling between RF and AF channels, New push-button type band-changing permits rapid shift from one band to another. Multiple crystal holder provides for instant selection of any one of four crystals. Entirely self-contained, including humless power supply. RF channel consists of 6L6 crystal oscillator followed by three 6L6 frequency multiplier stages. High-gain audio channel has input for crystal mike and provides plenty of drive for any type Class "A" modulator stage. Audio output is from Class "A" push-tube 2A3's. The NTE exciter is offered in black wrinkle metal cabinet for table use, but may be obtained with black wrinkle rack panel at \$6.00 net additional. Supplied with full set of tubes, less only crystals. For operation from 110 volts 50-60 cycle AC. Shpg. wt., 70 lbs.



A9509. NTE-A. For operation on 5, 10, 20, and 80 meters. Table type cabinet. **A9510. NTE-B.** For operation on 10, 20, 40, and 80 meters. Table type cabinet. **NET, EITHER \$129.00**
MODEL.....
T. P. \$12.90 down, \$10.26 mo. for 12 mos.
For relay rack panel add \$6.00 to Net Price and specify on order.

HALLICRAFTERS' "HT" HAM TRANSMITTERS

Modern in styling and professional in appearance; built around the latest tubes and most advanced circuits. Conservatively rated power output; will out-perform many 150 to 250 watt home-built rigs. Generously oversized components for utmost dependability. Flexibility and simplicity of operation make it an ideal unit for use by beginner or advanced Amateur. Supplied for operation with any three-band combination desired. Accessories required are: Astatic D104 crystal mike, Bias battery, and transmitting key.

For CW only. **MODEL HT-2.** Less modulator and accessories. Shpg. wt. 120 lbs. **A10170. NET..... \$175.00**

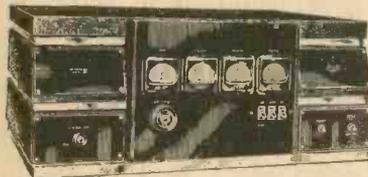
A10170. NET..... \$175.00
\$17.50 down, 12 monthly payments of \$13.91.

SPECIFICATIONS

OUTPUT: 50 watts Phone, 100 watts CW. **RANGE:** 10-20-40 meters; single control band-switching. **TUBES:** 2—6A6 osc. 1st and 2nd doublers, 1—RK47 R. F. amplifier. **RECTIFIERS:** 2—5Z3 1—80, 2—866. **MODULATORS:** 1—6J7 1—6J5 4—6L6. Modulation **EFFICIENCY:** 100%. **METERS:** 4, check all circuits. **CONTROLS:** Fil. and Plate Switches, Phone-CW Switch, Band-Switch, Gain Control. **CABINET:** Welded steel, 29 3/4" long, 11 1/2" high, 19 1/4" deep. **SUPPLIED COMPLETE** with tubes, 10-20-40 meter coils, and one 40 meter crystal. Write for complete descriptive literature.

MODEL HT-1

For Phone and CW. Less accessories. Shpg. wt., 145 lbs. **A1171. NET..... \$195.00**
\$19.50 down, 12 monthly payments of \$15.50.



- FAMOUS HALLICRAFTERS QUALITY
- 50 WATTS 'PHONE—100 WATTS CW
- SINGLE CONTROL BANDSWITCHING
- 100% MODULATION FOR 'PHONE
- FACTORY-BUILT—READY TO WORK

146 TIME PAYMENTS ON AMATEUR GEAR—WRITE US

AMATEUR TRANSMITTERS



BROWNING PRESELECTORS

Designed and developed in the famous Browning Laboratories, this regenerative type pre-selector unit covers the complete range from 5 to 180 meters in five bands. Provides high-gain for reception of signals otherwise too weak for adequate reception. Tuning is simplified and highly selective by reason of main tuning dial with separate bandspread control; sensitivity is variable by means of regeneration control. Kit contains all parts including 7"x10"x6" metal cabinet, drilled chassis and panel, dial and complete five-band wired tuner unit. Uses 1—1851 or 1852 tube.

A10687. Complete kit, less \$13.50 tube and power supply. NET.....

A10688. Completely assembled and wired Browning Preselector. Less tube \$16.50 and power supply. NET.....

KNIGHT FIELD STRENGTH METER KIT

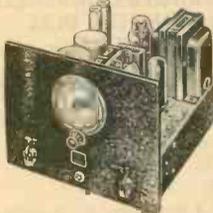


Described in detail on page 386, sixteenth edition of the ARRL Handbook, and put into convenient ready-to-assemble kit form. A necessity in every Amateur Station; can be used for measuring transmitter output under varying conditions, making antenna

radiation tests and patterns, checking amplifier neutralization, etc. This instrument will supply the only accurate method of tuning and adjusting any beam type antenna by actual measurements of radiated field at front, back and sides. Uses 1F6 as diode rectifier and amplifier. Kit contains all parts, case, tube, meter, and batteries.

A9538. Complete Kit. NET.....\$9.35

MEISSNER SIGNAL SHIFTERS STANDARD MODEL



Every operator of an Amateur transmitter can now have quick, accurate control of frequency. Will allow quick QSY over the entire band in 10, 20, 40, 80 and 160 meter bands. Output is approx. 7.5 watts. Tuning dial has precision vernier scale. Can be link-coupled to transmitter for remote control. Equipped with "On," "Stand-by" and "Automatic" position switch. Uses 1—6F6, 1—6L6 and 1—80. With 80 meter coils and RCA tubes. Extra coils listed below. For 110 V. 60 Cycles.

A9899. NET.....\$41.28

Terms: \$4.13 down, \$4.93 mo. for 8 mos.

DELUXE MODEL



Similar to model described above but in new and extremely accurate vernier dial, voltage regulation for the oscillator tube, dual rectifier tubes, and key click filter for chirp-less and crystal-pure CW. Supplied with 80

meter coils; additional coils for other bands listed below. Black or grey finish; black supplied unless grey is specified. With R.C.A. tubes. For 110 V. 60 Cycles.

A14820. NET.....\$49.02

Terms: \$4.90 down, \$5.85 mo. for 8 mos.

A14821. Relay Rack Model with 80 meter coils and RCA tubes. Specify grey or black finish. NET.....\$53.43

Terms: \$5.34 down, \$6.37 mo. for 8 mos.

ADDITIONAL COILS

A5600. 160 Meter Coils. A5603. 20 Meter Coils. A5601. 80 Meter Coils. A5604. 10 Meter Coils. A5602. 40 Meter Coils. NET, PER SET.....\$2.45

STANCOR 20-P AMATEUR TRANSMITTER KIT



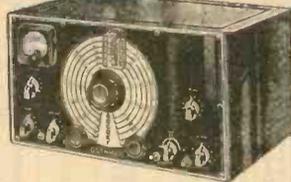
An entirely new and exceedingly popular, low-power 'phone-CW transmitter in kit form. Carefully designed to provide the maximum in operating flexibility and efficiency, this unit resembles a commercially built rig in its finished form. Rated at 20 watts input with 100% modulation for 'phone work and 30 watts input for CW. By means of six plug-in type coils and two or three crystals, operation on 160, 80, 40, 20 and 10 meters is easily obtained with high circuit efficiency at all times. Complete transmitter, including power supply, is assembled on one chassis base and panel, and housed in a single unit table model steel cabinet; completed unit weighs only 47 lbs.

Standard parts used throughout are selected to assure ample and conservative ratings. Transmitter section consists of 6F6G as pentode type crystal oscillator, with 807 RF amplifier. The audio section consists of 6J7 input stage for crystal mike, 6C5 voltage amplifier, 6N7 Class "A" driver, and 6N7 Class "B" modulator. Heavy-duty power supply uses 5Z3 tube. Features unusually flexible operation. Switching from CW to 'phone is easily done in a few seconds' time. Output of RF amplifier is designed to couple to any 72 ohm antenna transmission line. The 20-P kit comes complete, less only tubes, crystals, and metal cabinet. Includes finished chassis base and panel already punched and drilled, transformers, chokes, condensers, resistors, every necessary part, with complete instructions and diagrams for quick and easy assembly. This is an ideal rig for emergency work, for low-power auxiliary transmitter, for portable use, or as a complete CW-'phone rig for the beginner. For 110 Volt, 60 cycle A.C.

A9540. Complete 20-P kit, less tubes, crystals, and \$36.50 metal cabinet. NET.....

A14760. Metal cabinet for 20-P Transmitter. NET.....\$5.14

NEW GUTHMAN TRANSMITTING EQUIPMENT



NEW U-50 SUPERHET

An up-to-the-minute communications type super using new Loktal tubes and packed with features that provide top-notch performance. Regenerative IF stage for selectivity; V.T. voltmeter type "S" meter; six band tuning range from 490 to 61,000 KC.; 7/4" laboratory-type calibrated dial with 50 to 1 vernier drive; Antenna circuit resonator; Noise Silencer; and automatic voltage regulation. Full 3-gang tuning condenser; magnifier type dial indicator. New circuit uses 11 tubes. Send for descriptive literature and Time Payment details. Less tubes and speaker.

A10652. U-50-Super Kit. \$48.95 NET.....

A10664. U-50 completely \$56.30 wired. Less tubes. NET.....

A10654. Tube Kit. NET.....\$7.53

A10653. 8" PM Speaker in metal cabinet. NET.....\$9.70



SIX-BAND 'PHONE-CW TRANSMITTER KIT

A universal type transmitter for Phone or CW operation on 160, 80, 40, 20, 10, and 5 meters. Operates from either 110 volts 60 cycles AC or from 6 volt storage battery. Uses Loktal tubes, 7A4 crystal oscillator, 7C5 RF amplifier, 7C7 mike pre-amplifier, 7C5 modulator, 83V rectifier for AC operation. Has built-in synchronous type vibrator for 6 volt operation. Band-switching and selection of any one of three crystals from panel. Can be used for permanent station, mobile, or portable operation. Less tubes, meter (0-150 MA 2") and cabinet. With 5-10 meter coils.

A10655. U-36 Kit. \$29.37 NET.....

A10668. U-36 Transmitter, completely wired, less tubes, meter and \$36.72 crystals. NET.....

A10656. Tube kit. NET.....\$4.80

A10657. Metal Cabinet. NET.....\$2.36

A10658. 20-40 meter coils. NET.....1.76

A10559. 80-160 Meter coils. NET.....1.76

Send for literature and Time Payment details.

U-10A FREQUENCY METER

Designed by McMurdo Silver, this precision type frequency meter-monitor permits the Amateur to comply with new FCC requirements at moderate cost. Operating from either AC or DC, it utilizes its own tubes as heating elements for extreme stability. Directly calibrated for 160, 80, 40, 20, 10 and 5 meters, adequate bandspread insures precision frequency readings accurate to within a few cycles. Calibration checking is accomplished by means of WWV transmissions, or local BC stations. Has 100 KC calibrating oscillator and cathode-ray frequency deflection indicator. Actual accuracy depends only on skill of operator. Write for complete descriptive literature. 20 lbs.

A10651. Completely wired and assembled; with tubes. \$33.52 NET.....

Terms: \$5.03 down, \$5.04 mo. for 6 mos.

We can supply all Guthman Amateur products. Write us for descriptions and prices.



GUTHMAN "SEND-CEIVER"

A complete Amateur Station especially suited to the beginning Amateur's requirements. Consists of a six-band band-switching type regenerative two tube receiver and a single tube crystal-controlled type transmitter, with built-in power supply for 110 volt 60 cycle operation, all in one unit. Receiver uses 7C7 and 7C5 Loktal tubes; transmitter uses 7C5 tube; power supply uses 80 type rectifier. Band-switching type transmitter works on 160, 80, 40, 20, and 10 meters; provision for three crystals. Adapter kits available to convert transmitter for voice operation. Send for descriptive literature.

A10665. U-31 "Send-Ceiver" Kit, less tubes, crystals and \$29.37 cabinet. NET.....

A10663. "Send-Ceiver" as above but supplied completely wired. U-31W. \$36.72 NET.....

A10666. Metal Cabinet. NET.....\$2.97

A10667. Tube Kit. NET.....3.12



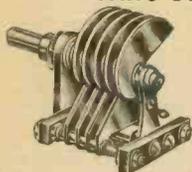


NATIONAL

Short

FAMOUS NATIONAL CONDENSERS

RECEIVING CONDENSERS



TYPE SE 270°

Straight line frequency plates, 270° rotation. Isolantite insulated. Plates and frame are aluminum; two bearing rotor with front bearing insulated to prevent noise. Rotor contact is through constant impedance pigtail. Type SEU 15 mmf. and 25 mmf. condensers have thick plates with rounded and polished edges and are suitable for high voltages. All other types have cut plates; edges are not polished. Air-gaps are as follows: for SE types—.026"; for SEH types—.018"; and for SEU types—.055".

STOCK No.	TYPE No.	CAP. MMF.	No. of Plates	NET EACH
A1300	SEU-15	15	6	\$1.50
A1310	SEU-20	20	7	1.65
A1301	SEU-25	25	9	1.65
A1302	SE-50	50	11	1.80
A1303	SE-75	75	15	1.95
A1303	SE-100	100	20	2.10
A1305	SE-150	150	29	2.25
A1306	SEH-200	200	27	2.25
A1307	SEH-250	250	32	2.40
A1308	SEH-300	300	39	2.40
A1309	SEH-335	335	43	2.55

TYPE ST 180°

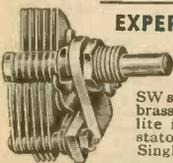
Similar to SE types above, but with 180° Straight-Line Wave-length plates, and more compact in size. Airgaps are as follows: Types STHS, STH, and STD—.018"; Types STD and ST—.026". STHS types are single bearing, others are double-bearing.

STOCK No.	TYPE No.	CAP. MMF.	No. of Plates	NET EACH
A1311	STHS-15	15	3	\$0.84
A1312	STHS-25	25	5	.90
A1313	STHS-50	50	7	.96
A1314	ST-35	35	8	.90
A1315	ST-50	50	11	1.08
A1316	ST-75	75	15	1.20
A1317	ST-100	100	20	1.35
A1318	ST-140	140	28	1.50
A1319	ST-150	150	29	1.50
A1320	STH-200	200	27	1.65
A1321	STH-250	250	32	1.80
A1322	STH-300	300	39	1.95
A1323	STH-335	335	43	2.10
A1324	STD-50	50	11	1.20
A1344	STDH-100	100-100	14-14	2.70

NEW TMH-35D CONDENSER

Special U.H.F. type split-stator condenser. Isolantite insulated. 3000 volt spacing. Max. cap. per sec., .35 mmf.; minimum, 6 mmf.

A1299. TMH-35D. NET \$2.70

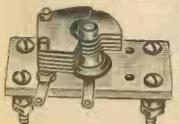


EXPERIMENTERS TYPE CONDENSERS

A superior low-priced midget condenser for SW set builders. Sturdy, all-brass construction with bakelite insulation. Rotor and stator plates easily removed. Single hole mounting.

*Double spaced; others single.

Cat. No.	MMF.	Type	EACH
A1325*	15	EX-25	51c
A1326*	25	EX-25	51c
A1327*	35	EX-35	60c
A1328	50	EX-50	54c
A1329	100	EX-100	60c
A1330	140	EX-140	75c



ULTRA-MIDGETS

For Ultra H.F. use in receivers and transmitters, for padding or neutralizing. Shaft extends at rear for easy ranging. Isolantite base.

TYPE UM: SINGLE-SPACED

Stock No.	Cap. Mmf.	Type	NET
A1333	15	UM-15	\$0.75
A1334	35	UM-35	.90
A1335	50	UM-50	.96
A1336	100	UM-100	1.02
A1337	140	UM-140	1.14

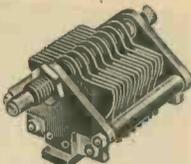
DOUBLE-SPACED

A1339	25	UMA-25	1.11
A1341	25	UMB-25	1.11

TRANSMITTING CONDENSERS

TYPE TMS

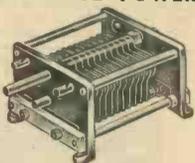
Precision type condensers for low-power stages of transmitters. Air-gaps: .026" for TMS types, .065" for TMSA. *Low C condensers are rated at 2000 V. Peak; others are 1000 V. Peak. Conical front bearings; single ball thrust, radial rear bearing. Has Isolantite insulation.



NO.	TYPE	MMF.	Plates	NET
A1358	TMS-100	100	10	\$1.50
A1359	TMS-150	150	14	1.65
A1360	TMS-250	250	23	1.80
A1361	TMS-300	300	27	2.16
A1362	TMS-50D	50-50	5-5	2.25
A1363	TMS-100D	100-100	9-9	2.70
A1365	TMSA-35	*35	8	1.80
A1366	TMSA-50	*50	11	1.95
A1367	TMSA-50D	50-50	11-11	2.40

TYPE TMC—MODERATE POWER

For use in power stages of transmitters where peak voltage does not exceed 3000 V. Extremely rigid frame. With full Isolantite insulation. Aluminum plates have buffed edges; air-gap is .07". Conical front bearing and radial rear bearing with single ball thrust. Stator of split-stator model is supported at both ends.



No.	TYPE	MMF.	Plates	NET
A1375	TMC-50	50	7	\$2.40
A1376	TMC-100	100	13	2.60
A1377	TMC-150	150	21	2.80
A1378	TMC-300	300	39	3.90
A1380	TMC-100D	100-100	13-13	4.50

TYPE TMA HEAVY-DUTY

Isolantite insulation. Aluminum plates. Peak voltage of airgaps: .077-3,000 V.; .171-6,000 V.; .265-9,000 V.; .359-12,000 V.

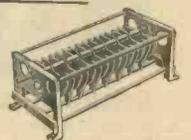
NO.	TYPE	MMF.	Air-Gap	NET
A1384	TMA-300	300	.077	\$7.20
A1385	TMA-200D	200-200	.077	9.00
A1386	TMA-50A	50	.171	3.90
A1387	TMA-100A	100	.171	6.00
A1388	TMA-150A	150	.171	7.20
A1389	TMA-230A	230	.171	9.60
A1390	TMA-50DA	50-50	.171	6.50
A1391	TMA-100DA	100-100	.171	10.50
A1392	TMA-100B	100	.265	8.10
A1393	TMA-150B	150	.265	10.20
A1394	TMA-50DB	60-60	.265	11.10
A1395	TMA-50D	50	.359	4.80
A1396	TMA-100C	100	.359	8.70
A1397	TMA-40DC	40-40	.359	6.10

ROTOR CLAMPING DEVICE

A1556. For clamping rotor shaft of TMA or TMC National Transmitting Condensers. Easy to mount. Holds firmly. NET \$51c

TYPE TML

Have self-cleaning rotor contact; thick capacitor plates with rounded edges. Cast aluminum frames and dural tie bars. Isolantite insulated. Peak voltage of airgaps: .219"-7,500 V.; .344"-10,000 V.; .469"-15,000 V.; .719"-20,000 V.



NO.	TYPE	MMF.	Air-Gap	NET
A1280	TML-75E	75	.719"	15.60
A1281	TML-150D	150	.469"	15.90
A1282	TML-100D	100	.469"	14.10
A1283	TML-50D	50	.469"	9.90
A1284	TML-245B	245	.344"	17.10
A1285	TML-150B	150	.344"	15.60
A1286	TML-100B	100	.344"	13.00
A1287	TML-75B	75	.344"	10.80
A1288	TML-500A	500	.219"	21.00
A1289	TML-350A	350	.219"	16.80
A1290	TML-250A	250	.219"	15.60
A1291	TML-300E	300	.719"	15.90
A1292	TML-60DD	60-60	.469"	17.10
A1293	TML-100DB	100-100	.344"	15.60
A1294	TML-60DB	60-60	.344"	17.10
A1295	TML-200DA	200-200	.219"	21.00
A1296	TML-100DA	100-100	.219"	17.10

NEUTRALIZING CONDENSERS

TYPE NC-600

A small-sized neutralizing condenser suitable for use with 6L6's and similar beam power tubes. Has adjustable range from .5 mmfd. to 5 mmfd. Isolantite insulated. A1372. NET.....27c



TYPE NC-800

For use with the RCA 800 or other tubes which require small neutralizing capacity. Isolantite insulation. Micrometer adjustment with lock nut. Max. capacity 10 mmf. A1369 NET.....\$1.80



TYPE NC-150

A high-voltage condenser for neutralizing the HK-354, RK-36, 100TH, 852 and like tubes. Max. capacity 12 mmf. Adjustable, 2" to 1.6". Isolantite insulated. A1370. NET.....\$3.90

TYPE NC-500

High-voltage condenser to neutralize WE-251A, 250TH and like tubes. Max. cap. 12 mmf. Adjustable from .5" to 1.9". A1373. NET.....\$7.50

TYPE TCN

A heavy-duty neutralizing condenser with a peak voltage rating of 6000 volts. Maximum capacity 25 mmf. For use with 203A, 852, 204A and like tubes. A1368. NET.....\$2.40



TYPE STN

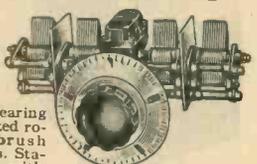
Suitable for neutralizing the type 45, 47, 10, or similar tubes. Isolantite insulated. Max. cap., 18 mmf. Peak voltage breakdown, 3000 volts. Ideal for buffers or doublers. A1371. NET.....\$1.20



PRECISION GANGED CONDENSER WITH MICROMETER DIAL

A precision condenser assembled for H.F. circuits. Ruggedly built with four bearing shaft. Insulated rotors have brush-type contacts. Stator insulated with Steatite. Has 20 1/2 worm drive. S.L.F. plates. 160 MMF. PER SEC. 225 MMF. PER SEC.

No.	Sections	No.	NET
A1350	2	A1353	\$12.00
A1351	3	A1354	14.40
A1352	4	A1355	16.50



A1523. Complete Drive Unit. Consists of enclosed worm drive and micrometer dial described above. NET.....\$8.10

NOTE: Above condensers are also available in single section types: 150, 200, 350 and 500 mmf. Grounded rotor. EACH.....\$9.00

SHAFT COUPLINGS

TYPE TX-9

A1550. A small efficient condenser shaft coupling. Hubs fit 1/4" shaft. Insulation is Steatite. NET.....66c



A1555. TX-10. Similar to TX-9 but has bakelite insulation. NET.....33c

TYPES TX-11 & TX-12

Flexible shaft with 1/4" hubs for driving offset shafts up to 90 degrees. No backlash. TX-12 has Isolantite insulated hubs. NET.....75c

A1551. TX-12. NET.....36c

A1552. TX-11. Plain hubs, not insulated. NET.....36c

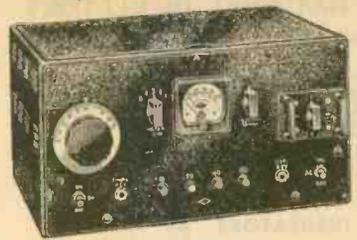
TYPES TX-1 & TX-2

For use with transmitting condensers in high voltage circuits. Insulation is of glazed Isolantite. Hubs will fit any 1/4" shaft. TX-1 leakage path is 1"; TX-2 leakage path is 2". A1553. TX-1. NET.....60c



A1554. TX-2. NET.....66c

Wave EQUIPMENT



THE NATIONAL NTX-30 TRANSMITTER

Designed along the lines of the original NTE series of combination exciter units, the new NTX-30 provides a compact, high efficiency transmitter or RF exciter for four band operation. Features a fast push-button band-change control for rapid, effortless selection of any desired frequency band. Highly stabilized, high efficiency circuit uses 6L6 crystal oscillator, three 6L6 buffer-doubler stages, and parallel 6L6's in final RF stage. Power supply uses 2-83's. A highly efficient circuit.

OPERATES ON 10-20-40-80 METERS

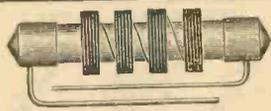
Keying is in final amplifier, or in oscillator for break-in operation. Final RF tank coils are AR16 plug-in type. Output circuit for antenna coupling is for 72 ohm untuned line. Normal input 60 watts; power output to antenna is 30 to 40 watts. NTX-30 can be used as low-power CW transmitter, or as driver unit for high-power RF amplifier. The NTX-30 is supplied complete with a set of tested tubes, tank coils for 10, 20, 40 and 80 meters, 4-in-1 crystal holder, and complete instructions. Less crystals. For 110 volt 50-60 cycles.

A14800. Black wrinkle-finish table model. **\$1170.00**

NET P. \$11.70 down, \$9.30 mo. for 12 mos.

A14801. Relay Rack Model, complete, less crystals. **\$123.00**

NET P. \$12.30 down, \$9.78 mo. for 12 mos.



NATIONAL R-100 R.F. CHOKE

Ideal for high frequency circuits. Extensively used in receivers and low-power stages of transmitters. Has continuous 4 section universal winding on Isolantite form. Distributed capacity is only 1 mmfd. 2 1/2 MH, 125 MA, 50 ohm D.C. resistance.

A1479. List. 60c. **YOUR PRICE... 36c**

A1478. R100U. As above but on small standoff insulator for vertical mounting; lug terminals. **NET... 36c**

A1480. R300. Similar to R-100 1 MH, 300 MA, 10 ohm D.C. resistance. **NET... 36c**

X-MITTING CHOKES

Universal chokes with honeycomb-type windings. Rated at 600 MA continuously. Inductance, 4 MH, 10 ohms D.C. resistance. R152 is for the 160 meter band, and R154 for the 40 meter band.

A1481. R152. **A1482.** R154. **NET EACH... \$1.35**

A1483. R154U. For 20, 40 and 80 meter bands. Five section honeycomb type coil on Isolantite core with solder lugs. Rated at 600 MA continuous, 1 mh. inductance, 6 ohms D.C. resistance. **NET... \$1.05**



LOW FREQUENCY OSCILLATOR COIL

Two separate inductances, closely coupled, in aluminum can. Used in super-regenerative sets as interruption-frequency oscillator. Sec. Inductance, 6.25 mh. Tunes to 100 K.C. with 00041 mfd. condenser. **NET... 90c**

A1476. NET... **90c**

NATIONAL COILS AND COIL FORMS

TRANSMITTING INDUCTORS



A new series of low-loss air-spaced coils for use in exciters, buffers, and low power finals. Victrol-insulated. All the sizes listed will tune over their respective bands with 30 mmf. and all have separate windings for link coupling—end or center as listed. All coils fit XB16 socket A1412 (not supplied.)

End Link No.	Center Link No.	Type No.	Mega-cycles	NET EACH
A1417	A1416	AR16-160	1.7-2.0	90c
A1607	A1611	AR16-80	3.5-4	
A1608	A1612	AR16-40	7-7.3	
A1609	A1613	AR16-20	14-14.4	
A1610	A1614	AR16-10	28-30	
A1419	A1418	AR16-5	56-60	

FIXED TUNED EXCITER TANK



Ideal for use in multi-band exciters using bandswitching. Aluminum case, 4 x 2 3/8 x 2 1/2" contains two 25 mmf. 2000 Volt condensers and XR-2 coil form, 1 1/2" long, 1" diam. Plug-in base fits tube sockets. Aluminum shield isolates condensers; tunes from top.

A1512. TYPE FXTB. 5 Prong. **A1513.** TYPE FXTB. 6 Prong. **NET EACH... \$2.94**

A1511. TYPE FXT. Without plug-in base. **NET... \$2.70**

PLUG-IN COIL BASE AND SHIELD



New National combination of plug-in coil base and shield, especially suited for mounting condensers and coils when it is desirable to have them shielded, yet removable. Shield can measure: 2"x2 1/4"x4 1/4". Special low-loss base is available in 5 or 6 prong types complete with shield or separately (A1348-1349).

Catalog No.	Type No.	Prongs	NET EACH
A1346	PB-10	5	45c
A1347	PB-10	6	45c
A1348	PB-10A	5	24c
A1349	PB-10A	6	24c



TUBE AND COIL SHIELDS

High grade non-magnetic aluminum shields. Coil shield measures 3" dia. x 3 3/4" high and is offered alone or with mounting base. Tube shield includes cap and mounting base and is suitable for tubes such as 57, 58, 77, 78, etc.

A1597. B30. Coil Shield Only. **NET... 21c**

A1598. B30. Coil Shield with Base. **NET... 30c**

A1599. T58. Tube Shield. **NET... 24c**

GRID AND PLATE CLIPS



Unique construction assures perfect continuous contact with grid or plate cap of tube.

A1547. For Standard Glass Tubes. **A1548.** For All Octal Base Tubes. **NET EACH... 3c**

A1549. For Transmitting Tubes, such as 866, T20, 809, 031Z, etc. **NET EACH... 6c**

NEW SAFETY PLATE GRIP



New type SPG Safety Plate Grip of molded R-39. Has bushing supplied for use with smaller cable. Provides a safe insulating cap for plate terminals on such tubes as 866, 806, or any tube with 3/8" diameter top cap. **A1546.** NET EACH... **21c**

RECEIVER COIL FORMS



Low-loss R-39 forms which are extremely popular with Amateurs and Experimenters. Easy to work. Finger-grip rim. 1 1/2" dia., 2 1/4" long.

A1490. 4 Prong. **A1491.** 5 Prong. **A1492.** 6 Prong. **EACH... 45c**

MIDGET FORMS



Small coil forms designed with excellent form factor, contributing to high efficiency in H.F. circuits. Of R-39 composition, coils are machinable, so that experimenters may groove and drill them to suit individual needs. XR-1 and XR-2 forms measure: 1" dia. x 1 1/2" long; wall thickness, 1/16". XR-1 form has four prongs; others are plain.

A1565. XR-1. 4-Prong Coil. **NET... 30c**

A1566. XR-2. Without Prongs. **NET... 21c**

A1567. XR-3. 3/16" Dia. x 3/4" long. Without Prongs. **NET... 18c**

PLUG-IN COIL FORM AND SOCKETS



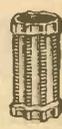
This completely new UR-10A coil form and socket assembly consists of the XR-10A coil form for 20 and 40 meters and Isolantite Plug-in Base and Socket. Five prong base easily attached to coil form by means of two screws. Base may also be used separately for air-wound coils. Socket and five mounting jacks complete with special attachments for mounting on TMA condensers if desired.

A1503. TYPE UR-10A. Coil Form Assembly. Complete. **NET... \$2.76**

A1505. TYPE PB-15. Plug-in Base Only. **NET... 81c**

A1506. TYPE XB-15. Socket Only. **NET... \$1.05**

TRANSMITTER FORMS

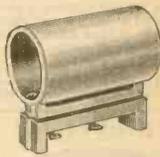


Grooved and drilled ceramic forms for winding low-loss transmitter coils. Will make your home-made coils look professional. XR10A form measures: 2 1/2" winding dia. x 5" long. XR-14A is 5" diameter. Both forms will fit the PB-15 plug and XB-15 socket above.

A1494. XR-10A. 20 or 40 meter bands. **NET... 90c**

A1497. XR-14A. 80 meter band. **NET... 2.10**

BUFFER COIL FORM AND SOCKET



A new Isolantite, low-loss coil form assembly, 1 3/4"x3 1/4" long. Plug with five 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.

No.	Type	Description	NET
A1498	UR-13	Complete Assembly	\$1.50
A1499	XR-13	Coil Form only	.66
A1500	PB-5	Coil Plug only	.45
A1501	XB-5	Coil Socket only	.45

COIL FORMS



Unglazed Isolantite forms for winding your own coils. Drilled for leads. Socket type XB-16 also fits all AR-16 coils. Plug, socket, and coil form are available separately or as complete assembly as listed.

No.	Type	Description	EACH
A1411	PB16	Plug	24c
A1412	XB16	Socket	30c
A1413	XR16	Coil Form	36c
A1414	UR16	Complete Unit	90c

NATIONAL SHORT WAVE EQUIPMENT

NATIONAL SOCKETS UNIVERSAL MOUNTING TYPE

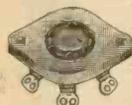


Unusually adaptable universal Insolatite socket. May be mounted in several ways by means of stand-off insulator and metal flange supplied. Has full pin-wiping terminals which do not extend above top of socket and cannot cause shorts.

No.	Prongs	No.	Prongs
A1515	4	A1518	7 M
A1516	5	A1519	7 S
A1517	6	A1520	8 Octal

List Each, 40c
NET EACH..... **24c.**

LOW-LOSS TYPE



Insolatite 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.

No.	Prongs	No.	Prongs
A1580	4	A1583	7 M
A1581	5	A1584	7 S
A1582	6	A1585	8 Octal

NET EACH..... **36c.**
A1586. 6 (For National Coils)..... **45c**

TRANSMITTING TYPE SOCKETS



A fifty watt socket with glazed ceramic insulation, side-wipe contacts, and bayonet-lock metal shell. Has binding post terminals.

A1588. XM50. NET..... **\$1.05**

A1587. XM10. A socket similar in construction to the XM50 above, but designed for tubes using the type UX base. NET..... **75c.**

A1589. XC-50. All-Steatite. 50 watt socket; provides safety from arc-over. Contacts are only metal in entire assembly. List, \$3.50. NET..... **\$2.10**

ACORN TUBE SOCKETS



A1591. For use with Triodes. Five contact clips securely mounted on Insolatite base.

NET EACH..... **90c.**
A1592. For Pentodes. Has aluminum base with all contacts by-passed to ground. NET..... **\$1.20**

POWER PENTODE SOCKETS

An efficient large wafer-type Insolatite socket for the RK28 and RCA 803 power pentode tubes. Has three point mounting and side-wiping contacts.

A1594. NET..... **\$2.16**
A1595. As above, but less stand-off insulators. NET..... **\$1.80**

CATHODE-RAY OSCILLOSCOPE

TYPE CRM



Graphically shows X-mitter operating conditions through easily interpreted patterns. Requires: 1-913 tube with 1" screen and 1-6X5 rectifier. Focus, Brilliance, Sweep Amplitude controls on front panel. Built-in sweep supply, 60 cycle power circuit; provision for external sweep. Size: 4 1/2 x 6 1/2 x 8". For 110 V., 50-60 cycles. Shpg. wt., 9 lbs.

A10317. Less tubes. NET..... **\$11.10**
A10318. R.C.A. Tube Kit..... **\$4.71**

4-IN-1 CRYSTAL HOLDER



New pressure type holder accommodates 4 crystals and has built-in low-capacity switch for selecting frequencies. Holds crystals up to 1" square; especially suitable for use where immediate choice of frequencies is desirable. Has prongs for plug-in mounting. **\$4.50**
A1560. Holder..... **\$4.50**

NATIONAL DIALS

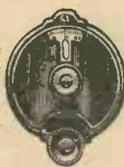
TYPE "B" 4"

A compact dial with a smooth variable ratio drive. Dial scale is read through a window in the black bakelite case.

A1525. Scale 0-100-0, 180°. Rotates in either direction.

A1526. Scale 200-0, 360°, clockwise. NET..... **\$1.65**

A1527. Illuminator for dial, with bracket. NET..... **30c**



TYPE "BM" 3"

Smaller than the "B" dial; similar in appearance, but with fixed ratio vernier.

A1528. Scale 0-100-0, 180°, universal.

A1529. Scale 200-0, 360°, clockwise. EACH..... **\$1.50**

TYPE "N"

Precision dials, with machine-driven scales and verniers of solid German Silver. Dial is 4" in diameter with a smooth planetary mechanism; 5 to 1 ratio.

A1530. Scale 0-100, 180°, counter-clockwise.

A1531. Scale 100-0, 180°, clockwise.

A1532. Scale 150-0, 270°, clockwise.

A1533. Scale 200-0, 360°, clockwise. EACH..... **\$4.05**



TYPE HRO 1 1/2" DIAL

A1534. Neat etched silver dial as used on the HRO receivers. Marked 1-10 over 180° clockwise. 1 1/2" diam.; for 1/4" shaft. NET..... **45c.**



TYPE "A" 4" DIAL

Smooth "Velvet Vernier" dial, entirely free from backlash. Self-contained mechanism. Ratio 5:1. Black bakelite.

A1536. Scale 0-100, 180° Counter Clockwise.

A1537. Scale 150-0, 270° Clockwise. NET..... **\$1.80**



TYPE "O" 3 1/2" DIAL

A1543. Attractive circular-grained German Silver dial. 3 1/2" diam. Reads 0-100 over 180° C.C. Large fluted finger-grip knob for easy tuning. Fits all 1/4" shafts. NET..... **90c.**



"HRK" KNOB

Large, full-grip tuning knob for use with receivers, transmitters, etc. 2 1/2" in diameter with fluted edge. Easy to use; non-tinging. Fits all 1/4" shafts.

A1545. NET..... **51c.**



STEEL CABINETS

Sturdily constructed, rugged steel cabinets for housing home-built receivers, special experimental or laboratory equipment, etc. Used with such sets as National FB7, SW-3, SR, PSK, HRO, and NC100. Panels and sub-bases are undrilled so that you can punch holes to your individual requirements. Black crinkle finish. With sub-base and bottom cover.

No.	Type	Size	NET
A10306	C-SRR	7 1/2 x 7 1/2	\$2.10
A10307	C-FB7	11 1/2 x 8	4.20
A10308	C-PSK	6 x 8	3.60
A10309	C-SW3	9 3/4 x 7	3.30
A10310	C-110	11 x 7	3.70
A10311	C-HWR	13 3/4 x 7 1/2	3.70
A10312	C-HRO	16 3/4 x 10	3.00
A10313	C-NC100	17 1/4 x 8 3/4 x 11 1/4	5.10

NATIONAL INSULATORS



A1570. TYPE AA-3. Steatite feeder spreaders. 6 1/2" long; 3/8" dia.

A1571. TYPE AA-5. Aircraft compression type strain insulator. NET EACH..... **18c.**

A1572. TYPE AA-6. Steatite. Length, 4 1/4"; 1/2" dia. NET..... **21c.**

STAND-OFF INSULATORS



A1573. Fig. A. Small Insolatite insulators designed for extreme efficiency. Make ideal forms for H.F. and U.H.F. chokes. Metal mounting feet. Type GS1. 1 1/2" high, 1/2" diam. NET..... **15c.**

A1574. Fig. A. GS2. 2 7/8" high, 1/2" diam. NET..... **21c.**

A1568. Fig. A. GS3. 2 7/8" high, 1/4" diameter. NET..... **54c.**

A1569. Fig. A. GS4. 4 7/8" high, 1/4" diameter. NET..... **66c.**

A1575. Fig. B. A Steatite insulator for mounting parts on metal chassis bases. GS5 tapped 8-32 each end. GS6 and GS7 tapped 10-24 each end. GS5. 1 1/4" high. NET..... **15c.**

A1576. Fig. B. GS6. 2" high. NET..... **27c.**

A1575. Fig. B. GS7. 3" high. NET..... **45c.**

A1578. Fig. C. GS8. A small Steatite insulator for use in Low Loss H.F. circuits for coil mountings, etc. Base has 1 1/4" mtg. NET..... **21c.**

H. F. BUSHINGS

Efficient, low-loss Steatite bushings for bringing H.F. leads through partitions or window-panes, for supporting coils, etc.

A1507. XS1. 1" x 1 1/4". Per Pair..... **45c.**

A1510. XS2. 1 1/2" x 1 1/4". Per Pair..... **54c.**

XS6 H. F. BUSHING

Small Steatite shoulder-type flat bushing, 3/8" diam. 3/8" thick with 1/2" hole. NET EACH..... **9c.**

NEW SMALL PARTS



A1450. Fig. A. Through Point Bushing. Of molded Viotron with threaded shank and .093" conductor in center. NET, BOX OF 12..... **45c.**

A1451. Fig. B. FWC Insulators. Molded R-39. Will mount two FWE jacks or FWA posts. Fit chassis or panel up to 1/4". NET PER PAIR..... **21c.**

A1452. Fig. C. FWA Binding Post. Jack top for banana plugs; hole for positive clamping of wire leads and husky screw top. NET EACH..... **15c.**



A1453. Fig. A. FWE Jack. Banana plug type especially suited for use with the FWC insulators listed above. Fit any panel or insulator strip up to 1/4". NET EACH..... **9c.**

A1454. Fig. B. FWF Plug. Molded R-39 with banana plugs spaced 1/4". Takes leads through top or sides; set screws hold leads firmly. Use FWE jacks or FWA posts. NET..... **60c.**

A1455. Fig. C. FWD Assembly. Consists of FWE plug, two FWE jacks, and two FWC insulator strips. When pegged together, all metal parts are insulated for safety. NET..... **96c.**

AUDIO COUPLER

For coupling output of screen grid detector to grid on audio tube. Consists of 700 henry plate coupling choke, .01 coupling condenser and .25 megohm resistor in metal case.

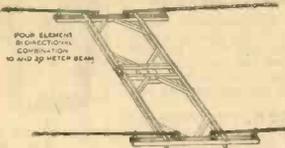
A1485. S101. **\$3.60**



The Latest in

ROTARY BEAM ANTENNAS

PREMAX BEAM KITS



Rapidly becoming a universal favorite with Amateurs, the Premax Antenna Kit offers unlimited possibilities for experimental work with rotary beam antennas. All antenna elements are of lightweight corrugated steel tubing, heavily coated with cadmium plate, and by reason of telescopic construction may be varied from six feet to maximum required length. All rods taper from 1" to 3/4", cadmium-plated.

2 ELEMENT KITS
A12490. 10 METERS. Two double-end 17 1/2 ft. rods, mounting clamps, and instructions. Shpg. wt., 6 lbs. **\$7.06 NET.**

A12492. 20 METERS. Four 17 1/2 ft. rods, mounting clamps, and instructions. Shpg. wt., 14 lbs. **\$14.70 NET.**

3 ELEMENT KITS
A12491. 10 METERS. Three double-end 17 1/2 ft. rods, mounting clamps, and instructions. Shpg. wt., 10 lbs. **\$10.58 NET.**

A12489. 20 METERS. Six one-quarter wave Corulite rods with mounting clamps and instructions. Shpg. wt., 22 lbs. **\$22.05 NET.**

FRAMEWORK KITS

A12495. Complete Rotary Beam Frame Kit. For 2 element 10 or 20 meter beam, or 10 meter 3 element beam. All wood parts cut and drilled to fit; with all bolts and hardware and instructions. Painted with green enamel. Shpg. wt., 45 lbs. **\$10.73 NET.**

A12496. Auxiliary Frame Kit. Used with A12495 frame kits above to extend frame for use with 3 element 20 meter beam. Shpg. wt., 7 1/2 lbs. **\$2.35 NET.**

PREMAX ROTOMOUNT



A sturdy, well-made turntable unit for manual rotation of beam antennas. Heavy gauge steel throughout with the rotating platform formed of steel flanges for strength, and reinforced with

channel iron. Revolving platform is mounted on one-piece shaft turning in double-cone tapered Timken bearings. Has Zerk fitting for lubricating bearings. Housing encloses large pulley wheel with two small idler pulleys. Revolves 1/4 turns in either direction. With stranded copper leads from main pulley; no rope supplied. Platform, 9" x 12". Shpg. wt., 35 lbs. **\$13.23 NET.**

A12494. NET.

PREMAX VERTICAL TYPE ANTENNAS

Vertical radiators made of heavy steel tubing, heavily cadmium-plated to resist weathering. Telescope to permit accurate adjustment to transmitting frequency. Quick, positive action clamp holds sections rigidly together. Hi-Q type mounts without insulators to chimney or roof parapet. Chimney clamp makes installation fast and easy. Others are self-supporting on special design base insulators.

A12498. Hi-Q Vertical Antenna for 10 meters. **\$10.29 NET.**

A12499. Chimney Bracket for Hi-Q antenna. **\$3.82 NET.**

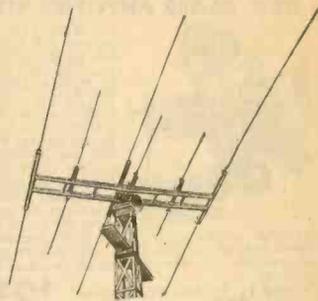
A10059. VR-318. 10 Meter self-supporting vertical. 18 ft., 3 section, with base-mounting insulator. **\$7.35 Shpg. wt., 12 lbs. NET.**

A10058. VR-136. 20 meter self-supporting vertical. 36 ft., 6 section, with insulator. 29 lbs. **\$16.61 NET.**

NOTE: We can supply all Premax products. Write to us for complete literature.

FAMOUS MIMS "SIGNAL-SQUIRTER" ANTENNAS

Throughout the entire world, "Signal-Squirter" are the choice of discriminating Amateurs. Famous for performance and for the ability to "Put your signal where you want it—when you want it there." Famous, too, for Mims research and engineering which pioneered the rotary beam antenna and then improved an accepted product to bring it worldwide acclaim as "The Master" of all rotary beams. Mechanically designed to stand far more punishment than will ever be met in actual service. Electrically designed to provide highest possible gain with maximum power transfer efficiency. When you buy a "Signal-Squirter," you get more than just a kit. You'll have one of the finest antennas ever developed, with elements that have been time- and field-tested to stand up even through winds of hurricane velocity. The Deluxe Rotator is the smoothest operating and huskiest piece of mechanically perfect equipment you've ever seen. Even the center section is a masterpiece of woodwork—built for a lifetime of service. You can assemble, erect, and tune the "Signal-Squirter" in a few hours from instructions supplied. All "Signal Squirter" products are shipped FOB factory at Texarkana, Ark.



COMBINATION 10 AND 20 METER 3 ELEMENT ANTENNA

The boys who know their "rotaries" say this one is "hot stuff." A dual-band 3 element array using a single feed-line and inducto-stub. Actually two antennas on one center section as illustrated at upper right. Consists of all elements, deluxe Rotator, Inducto-stub, center section, insulators, and hardware. Less direction indicator and motor control cable.

A12447. NET CASH. \$159.00
\$15.90 down, \$12.64 mo. for 12 months.

"Signal Squirter" Kits contain Rotator, Inducto-Stub assembly, center section, cross-arms, elements, insulators, and hardware.

A12425. 3 Element 20 Meter Deluxe. NET CASH. \$124.50
\$12.45 down, \$9.90 mo. for 12 mos.

A12426. 2 Element 20 Meter Deluxe. NET CASH. \$116.50
\$11.65 down, \$9.26 mo. for 12 mos.

A12427. 3 Element 10 Meter Deluxe. NET CASH. \$116.50
\$11.65 down, \$9.26 mo. for 12 mos.

A12428. 2 Element 10 Meter Deluxe. NET CASH. \$110.00
\$11.00 down, \$8.75 mo. for 12 mos.

STANDARD 10 METER "SIGNAL-SQUIRTER"

For "Signal-Squirter" performance on "Ten" with utmost economy. Similar to Deluxe antenna in every way, but supplied with the smaller Standard Rotator previously used with all "Signal-Squirters." Less direction indicator. Shipped FOB Texarkana, Ark. **\$57.50**

A12429. Standard 10 Meter "Signal-Squirter" Kit. NET CASH. \$57.50
Terms: \$5.75 down, \$6.86 monthly for 8 months.

"SIGNAL-SQUIRTER" DIRECTION INDICATOR



New, improved model in attractive desk-type metal case. Provides a convenient and practical means of visually checking the position of the "Signal-Squirter" at all times. Dial equipped with either Compass rose or Azimuthal map. Operates in either direction in direct relation to rotation of beam, indicating in steps of six degrees.

Equipped with motor control switch and reset for aligning indicator hand with beam. Timer device is built into Rotator unit. Indicator operates from 110 volt 50-60 cycle line. Specify dial desired.

A12432. For Deluxe Rotator. NET EACH. \$24.50

A12433. For Standard Rotator. NET EACH. \$24.50
 When purchasing Direction Indicator with complete Deluxe "Signal-Squirter" on Time Payments, add \$2.45 to down payment and add \$1.95 to each monthly payment.

"SIGNAL-SQUIRTER" ANTENNA ELEMENTS ONLY

The finest rotary beam antenna elements available. In use everywhere. Made of finely corrugated, copper-plated tensile steel, telescope-tapered and finished with three coats synthetic enamel; ends sealed. No sag. 20 meter rods 16 1/2 ft. long taper from 1 1/4" to 3/4". 10 meter rods 8 1/2 ft. long taper from 1 1/4" to 3/4". Securely crated and shipped FOB Texarkana, Ark.

A12434. 2-20 Meter Elements. NET. \$6.50

A12435. 4-20 Meter Elements. NET. 11.50

A12436. 6-20 Meter Elements. NET. 17.00

A12437. 2-10 Meter Elements. NET. 3.00

A12438. 4-10 Meter Elements. NET. 5.75

A12439. 6-10 Meter Elements. NET. 8.50

CENTER SECTIONS ONLY

Designed for use with "Signal-Squirter" antennas but also suitable for use in construction of any type rotary beam. Tapered ladder-type construction with T beam cross arms, sturdy center box structure for shielding rotator from weather, and adequate bracing against stress or strain. Made of selected wood; finished with three coats best enamel. FOB Texarkana.

A12440. 20 Meter 3 Element. NET. \$15.00

A12441. 20 Meter 2 Element. NET. 11.50

A12442. 10 Meter 3 Element. NET. 11.00

A12443. 10 Meter 2 Element. NET. 7.50

"SIGNAL-SQUIRTER" DELUXE ROTATOR



Designed for years of service in any rotary beam installation, the Deluxe Rotator is a triumph of mechanical engineering. Massive construction together with the finest of precision-cut gears and oversize roller bearings assure absolute trouble-free operation. Induction-type 110 volt 50-60 cycle motor with high starting and running torque gives positive control of beam even in high winds. Electrically operated brake locks beam rigidly in any position. Rotates in either direction. Precision-ground 2 1/2" hardened steel shaft supported in roller bearings with heavy thrust bearings to carry load. Base housing, and top castings of semi-steel; finished overall in black wrinkle. Illustrated with Inducto-stub assembly which is supplied separately. Shpg. wt., 73 lbs.

A12430. Deluxe Rotator. \$69.50 only. NET FOB FACTORY. \$79.50
\$6.95 down, \$8.29 mo. for 8 mos.

A12431. Standard Rotator. Husky lightweight unit for 2 element 10 meter beams. On request. NET. \$35.00

INDUCTO-STUB ASSEMBLY

The most practical and efficient method of feeding a rotary beam ever developed. Permits continuous rotation of beam in either direction plus ability to feed beam with open wire 465 ohm line. Includes primary and secondary rings and stubs, insulators, adjuster straps, matching unit, and instructions. Specify if for 10 or 20 meters and if for 2 or 3 elements. **\$17.50**

A12444. NET.

CLAMP-TYPE INSULATORS

Sturdy white glazed-porcelain insulators for mounting "Signal-Squirter" elements, or any rod type elements not exceeding 1 1/4" diam. Clamp rigidly around tube and fasten to supporting arm with two bolts.

A12445. Per Set of 8. NET. \$3.00

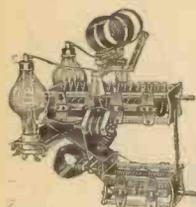
A12446. Per Set of 12. NET. 4.50

WE CAN SUPPLY the answer to any question on Mims "Signal-Squirters." Complete and detailed descriptive literature will be sent promptly on request.

HAMMARLUND Precision PRODUCTS

HAMMARLUND TRANSMITTER FOUNDATION KITS

NEW PA-500 AMPLIFIER KIT

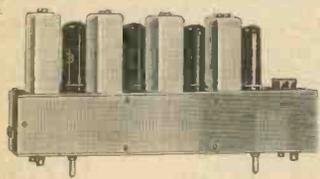


Compactly designed RF amplifier kit of push-pull type for such tubes as RK-38, 100TH, HK-54, or others with up to 2000 volts on plates. Power output up to 500 watts depending on tubes used. Mounts directly on rack panel. Will operate on all bands from 80 to 10 meters. Uses B-W Standard, Fixed Link, or Variable Link coils in both plate and grid circuits. Kit contains all brackets and hardware.

A10671, PA-500 Foundation Kit only, NET. \$255

A10672, Complete Kit of Hammarlund Parts. Contains: PA-500 Foundation Kit, 2—S-4 sockets, 2—N-10 condensers, 1—CH-500 Choke, 1—TCD-55-F and 1—TCD-165-K tank condensers. Less tubes and coils. \$22.62 NET.

NEW EU-4 EXCITER UNIT

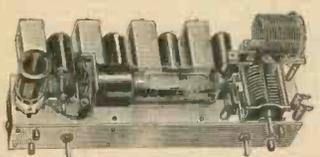


An easily assembled exciter unit of modern design for those who desire maximum flexibility of operation. Uses 4—6L6's, one as crystal oscillator and three frequency multiplier stages. Operates on 80, 40, 20, and 10 meters from 80 meter crystals. Single control bandswitching by special rotary switch. Rotary panel switch also permits complete metering with only one meter. Link output from separate stages for driving medium or high power buffer or amplifier stage. Foundation kit contains all hardware, brackets, chassis, and two special rotary switches.

A10673, EU-4 Foundation Kit only, NET. \$690

A10674, Complete Kit of Hammarlund Parts. Contains: EU-4 Foundation Kit, 1 each 80, 40, 20 and 10 meter fixed tuned coil units, 1—XS-2 and 4—S-8 sockets, 5—CHX chokes. Less tubes and crystal. \$24.00 NET.

ED-4 EXCITER-AMPLIFIER UNIT

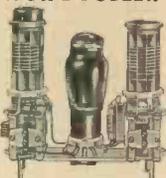


A compactly designed combination four-band exciter and amplifier unit with power output of up to 100 watts. Basic design is that of the EU-4 Exciter unit above, incorporating 4—6L6 tubes for operation on 80, 40, 20 and 10 meters, but with the addition of an RF amplifier stage using either an RK-47 or 814 beam power type tube. Amplifier uses B-W variable link coils. An ideal unit for driving a high power RF amplifier such as the PA-500 described above, or for use alone as a compact, high efficiency 100 watt CW transmitter. ED-4 Foundation Kit contains punched and drilled aluminum chassis, all brackets, hardware, and instructions. Write for descriptive literature containing complete information.

A10675, ED-4 Foundation Kit only, NET. \$810

A10676, Complete Kit of Hammarlund Parts. Contains: ED-4 Foundation Kit, 1 each 80, 40, 20, and 10 meter fixed tuned exciter coil units, 1—XS-2 crystal socket, 4—S-8 tube sockets, 6—CHX RF chokes, 1—S-5 socket, 1—MC-100-S and 1—MTC-100-B variable condenser, 1—S-4 socket, 3—SOS-100 standoff insulators, 2—SOSP insulator hardware kits, 1—SWF coil forms, and instructions. Less tubes and crystal. \$31.23 NET.

OD-10 OSCILLATOR-DOUBLER



A new transmitter foundation kit by Hammarlund, cleverly designed to permit compact construction. Foundation kit consists of all brackets, hardware and instructions for assembly of high efficiency oscillator-doubler stage using standard Hammarlund parts. Completed unit is of the Tri-Tet type, using 6L6G tube. Ideal for use with BD-40 and PA-300 kits. Wt., 2 lbs.

A9535, Foundation Kit only, NET (less tube) \$1.68

A9536, Complete Kit of Parts for OD-10 Oscillator-Doubler Stage. Consists of: OD-10 Foundation Kit, 2—MTC-100-C condensers, 2—4 prong sockets, 1—Octal socket, 1—CHX R.F. choke, 2—4 prong SWF coil forms, 1—XS-2 crystal socket, and complete instructions. Wt., 6 lbs. NET. \$7.59

BD-40 BUFFER-DRIVER

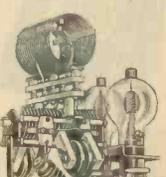


Intended for use as a buffer amplifier following the oscillator stage and preceding the final amplifier in compact transmitter assemblies. Matches the OD-10 unit above in size and center-spacing of control shafts. Uses either an 807 or RK-39 tube with an output of up to 40 watts. Foundation kit contains all hardware, shields, brackets and instructions. Wt., 2 lbs.

A9572, BD-40 Foundation Kit \$2.16 NET. Less tube, NET.

A9573, Complete Kit of Parts for BD-40 Unit. Consists of: BD-40 Foundation Kit, 2—MTC-100C condensers, 2—coil sockets, 1—tube socket, 1—CHX R.F. Choke, 2—4 prong SWF coil forms, tube and coil shields, and instructions. Wt., 5 lbs. \$7.71 NET.

PA-300 AMPLIFIER KIT



A transmitter unit that requires only a screwdriver and soldering-iron for assembly. Consists of a push-pull R.F. amplifier designed to use triodes such as T55's, 808's, etc., with power output of from 100 to 300 watts per pair. May be used with any low-power driver stage, or with BD-40 Buffer-Driver above. Shpg. wt., 2 lbs.

A9570, Foundation Kit. \$1.95 NET.

A9571, Complete Kit of Hammarlund Parts. Contains: 1—PA-300 kit, 1—MTC-100B, and 1—MTC-100C condenser, 2—N-10 condensers, 1—CH-500 R.F. Choke, 3—sockets, 1—grid coil form. Less plate coil \$16.14 and tubes. Shpg. wt., 6 lbs. NET.

"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 wind and two 25 mmf. double-spaced condensers mounted in fully enclosed shield can. 2"x4"x1 1/2".

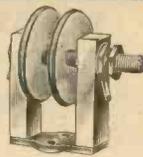
No.	Type	Band	EACH
A5106	ETU-10	10 Meters	\$3.30
A5107	ETU-20	20 Meters	
A5108	ETU-40	40 Meters	
A5109	ETU-80	80 Meters	

"ETU" UNWOUND UNITS

As above, but supplied with unwound internal coil form. Ideal for use in construction of special type exciter units which require "custom-tailored" coils for the oscillator or frequency multiplier stages. Each unit has blank coil form 2" long and 7/8" diameter, with two 25 mmf. double-spaced variable condensers. Units tune from top. Fully enclosed in aluminum shield can. Size, 2"x4"x1 1/2".

A5105, NET EACH. \$2.40

NEUTRALIZING CONDENSERS



New rounded edge, thick aluminum plate type. Oversized fine thread makes for micrometer tuning. Lock nut is provided for permanent setting.

A5426, Type N-10. 2.1 to 10 mmf. 1/8" to 1/4" air gap. Plate dia., 1 1/2". Size, 2 1/2"x1 1/2"x3". \$1.80 NET.

A5428, Type N-15. Same as above, but cap. is 3.2 to 14 mmf. \$3.60 NET.

A5427, Type N-20. 3.8 to 14 mmf. 1/8" to 2" air gap. Plate dia., 4". Size, 4"x5 1/2"x5 1/2". NET. \$3.90

"HF" MICRO CONDENSERS

A new series of ultra-high frequency variables. Very efficient in tuning or trimming critical high frequency circuits. Cadmium plated plates. Isomitted insulation. Equipped with special wide front bearing. *Indicates dual-spaced units.

No.	Type	Plates	Max. Mmf.	NET
A5585	HF-15	5	17.5	\$0.75
A5586	HF-35	10	35	1.90
A5587	HF-50	14	50	.96
A5588	HF-100	27	100	1.14
A5589	HF-140	37	140	1.35
A5590	*HF-15-X	10	15	.96
A5591	*HF-30-X	20	30	1.11

"HFD" DUAL MICROS

No.	Type	Cap. per Sec.	NET
A5437	HFD-50	50	\$1.65
A5438	HFD-100	100	1.95
A5439	HFD-140	140	2.25
A5436	*HFD-15-X	16	1.80
A5440	*HFD-30-X	28.5	1.95

I. F. TRANSFORMERS TYPE "T"

Specially designed for experimental and replacement purposes. Double-tuned, with mica compression type condensers on Isolantite base. Adjustable from top of can. Coils are litz-wound and wax-impregnated. Aluminum shield can is 2 1/2" dia. 3 1/2" high. Base mounting by threaded lugs on 2" centers.

Untapped Frequency Center Tapped

A5350	175	A5352	EACH
A5351	465	A5353	99.
A5355	465	Beat Oscillator.	

TYPE "ST" MIDGETS

As above but in compact can, 1 1/2" square, by 2 1/4" high. Mtg. centers, 1 1/2". Untapped Freq.

A5356	175	A5358	List, \$1.65.
A5357	465	A5359	NET
A5354	262	(For auto sets),	EACH, 99.

"AIR-TUNED" TYPE

For use where absolute stability is necessary. Air-tuned, with Litz coils. Top and bottom trimmer condensers mounted on Isolantite. Provide gain in excess of 200 per stage with unequalled selectivity. Designed particularly for Screen Grid type tubes. Beat Oscillator has tuning lever to vary beat note. All leads RMA color-coded. Can, 2 1/2" dia., 5" high.

Untapped Freq. C.T.

A5361	465	A5364	NET EACH
A5366	465	Beat Oscillator.	\$2.70

"ICT" IRON-CORE I.F. TRANSFORMERS

A new iron-core I.F. transformer which provides maximum gain per stage, and with extremely sharp selectivity. Core is of high permeability magnesium alloy; rustproof and non-corrosive. Isolantite mounted trimmers. Size, 1 1/2" square, 4 1/2" high. Mounting centers 1 1/2". I.F. frequency 465 K.C.

A5444.	Single stage input.	NET
A5445.	Single stage output.	EACH
A5446.	Two stage input.	\$180
A5447.	Two stage interstage.	
A5448.	Two stage output.	

Hammarlund Precision PRODUCTS

HAMMARLUND TRIMMING AND PADDING CONDENSERS



"EC" EQUALIZERS

For balancing, neutralizing and trimming purposes. Mica dielectric; bakelite base. 1 1/4" x 1 1/4". Adjusting screw in center.

A5374. 3-35 MMF. **18c**
List, 30c. NET
A5375. 25-80 MMF. **24c**
List, 40c. NET



"MEX" EQUALIZER

Extremely small low-loss condenser. Screw adjustment. Isolantite base, with mica dielectric and phosphor-bronze plates 3 to 30 mmf. 3/8" x 3/4".

A5376. List, 30c. NET **18c**



TYPE "CTS"

Small round type ceramic padding condenser. Finest imported mica insulation; phosphor-bronze spring plates. 1 1/8" diam.

No.	Type	Mmf.	List	NET
A5065	CTS-85	25-100	50c	30c
A5066	CTS-160	45-260	60c	36c
A5067	CTS-230	65-350	60c	36c
A5068	CTS-380	175-350	75c	45c
A5069	CTS-525	230-800	80c	48c



TYPE "DTS"

Compact, oblong type trimmers with Isolantite base; best imported mica and phosphor-bronze plates. For all padding needs.

No.	Type	Mmf.	List	NET
A5070	DTS-50	8-90	30c	18c
A5071	DTS-115	30-175	40c	24c

DUAL TRIMMERS

A5072	DTD-50	8-90	70c	42c
A5073	DTD-115	30-175	80c	48c



For I.F. tuning, R.F. trimming, and for padding or trimming of oscillator and other circuits. Isolantite base. 1 x 1 1/4". 1/4" mtg. centers.

Stock No.	Type	Mmf.	List	NET
A5429	MICS-70	10-70	\$0.50	30c
A5430	MICS-140	70-140	.60	36c
A5431	MICS-220	140-220	.70	42c
A5432	MICS-1000	600-1000	1.00	60c



"APC" MICRO CONDENSERS

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 1/4" dia. cans. Screwdriver adjustment.

No.	Type	Max. Mmf.	Min. Mmf.	NET
A5324	APC-25	25	3.0	\$0.78
A5325	APC-50	50	3.9	.90
A5326	APC-75	75	4.5	1.02
A5327	APC-100	100	5.3	1.14
A5442	APC-140	140	6.5	1.35

VARIABLE COUPLING IF'S

Type VT. Permits continuously variable selectivity from sharp peak to high fidelity; air-trimmed. IF frequency 465 KC. Size, 2" x 2 1/2".

A5378. NET **\$3.30**

A5385. Type VTC. Variable coupling for panel control of up to 4 VT transformers. **\$1.50**

A5383. Type VTF. Similar to VT, but with fixed coupling. For IF output stage.

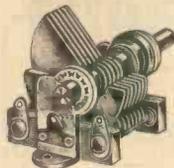
A5384. Type VTF-CF. Center-tapped output IF transformer; to diode detector.

A5387. Type VTO. 465 KC. beat oscillator. For electron-coupled oscillator.

YOUR PRICE EACH. **\$2.70**

FAMOUS HAMMARLUND CONDENSERS

MIDGET TYPE



High quality midget condensers. Insulated with Isolantite. Brass plates .0225" thick with an .0245" air gap, are securely fastened to the 1/4" shaft. Wide bearings at front and rear provide extra good contact. Clockwise rotation. Shaft extends beyond rear.

No.	Type	Plates	Max. Mmf.	NET
A5300*	MC-20-S	3	20	\$0.84
A5301*	MC-35-S	5	35	.90
A5302*	MC-50-S	7	50	.96
A5303*	MC-75-S	7	50	.96
A5304*	MC-75-M	11	80	1.20
A5305*	MC-75-M	11	80	1.20
A5305*	MC-100-S	14	100	1.35
A5306	MC-100-M	14	100	1.35
A5307	MC-140-M	19	140	1.50
A5299*	MC-140-S	19	140	1.50
A5308	MC-200-M	27	200	1.80
A5309	MC-200-M	34	260	1.80
A5310	MC-325-M	43	320	2.10

*Semi-circular plates. All others are Midline.

DOUBLE-SPACED MIDGETS

Have double bearings and Isolantite insulation. Exceptionally efficient. Air-gap .0715".

No.	Type	Max. Mmf.	Min. Mmf.	NET
A5433	MC-20-MX	20	6.5	\$1.20
A5319*	MC-20-SX	20	7	1.20
A5318*	MC-35-SX	32	7	1.35
A5318*	MC-35-MX	32	7.5	1.35
A5319*	MC-50-SX	50	9.5	1.65
A5320*	MC-50-MX	50	9	1.65
A5315*	MC-100-SX	100	16.5	2.10

*Semi-circular plates. All others are Midline.

DUAL MIDGET CONDENSERS



Rigid, high quality two-gang midget condensers, designed especially to provide added efficiency at ultra-high frequencies. Plates are .0225" brass; .0245" air-gap. Overall length behind panel, 3/4".

A5434. MCD-50-S. 50 MMF. Per section. Semi-circular plates. Min. cap. 5.5 mmf.

A5435. MCD-50-M. 50 MMF. Per section. Midline Plates. Min. cap. **\$1.80**

A5311. MCD-100-M. 100 MMF. Per section. Midline Plates. Min. cap. 6 mmf.

A5346. MCD-100-S. 100 MMF. Per section. Semi-circular plates. Min. cap. 6.5 mmf. NET EACH. **\$2.10**

A5312. MCD-140-M. 140 MMF. Per section. Midline Plates. Min. cap. 7 mmf.

A5347. MCD-140-S. 140 MMF. Per section. Semi-circular plates. Min. cap. 8 mmf. NET EACH. **\$2.40**

DOUBLE-SPACED DUAL MIDGETS

Similar to above, but have air-gap of .0715" between rotor and stator plates. Ideal for U.H.F.

No.	Type	Max. Mmf.	Min. Mmf.	NET
A5321	MCD-35-MX	31	6	\$2.10
A5322*	MCD-35-SX	31	6.5	2.10

*Semi-circular plates. Other is Midline.

BANDSPREAD MIDGETS



For use as bandspread tuning condensers in short wave receivers and for amateur frequency meters. "Tank" section may be locked for tuning with bandspread section.

Stock No.	Type	Tank Cap.	Tuning Cap.	NET PRICE
A5313	MC-120-B	100	18	\$1.80
A5314	MC-150-B	100	50	1.95

CONDENSER COUPLING

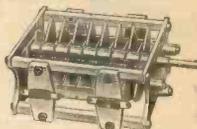
Bakelized canvas insulation; brass bushings. Flexible; for ganging condensers, etc., without need of exact shaft alignment. For 1/4" shafts. 1 1/2" diameter.

A5423. List, 60c. NET **36c**

TRANSMITTER TYPES

"TC" SINGLE

Recently developed by Hammarlund, these condensers incorporate many outstanding features in design. Buffed and polished plates; non-magnetic rotor shaft; hand-fitted full-floating bearings; Beryllium rotor contacts heavily silver-plated; Isolantite insulation.



No.	Type	Mmf.	Airgap	NET
A5075	TC-55-F	60	.230"	\$4.80
A5076	TC-18-G	20	.200"	3.10
A5077	TC-40-G	45	.200"	4.20
A5078	TC-65-G	72	.200"	5.28
A5079	TC-100-G	110	.200"	6.72
A5080	TC-150-G	165	.200"	8.88
A5081	TC-25-H	25	.171"	3.10
A5082	TC-50-H	53	.171"	3.60
A5083	TC-110-H	115	.171"	5.40
A5084	TC-240-J	250	.100"	5.10
A5085	TC-90-K	95	.084"	3.70
A5086	TC-165-K	170	.084"	3.90
A5087	TC-220-K	225	.084"	4.80
A5088	TC-290-K	300	.084"	5.70
A5089	TC-330-K	340	.084"	6.00
A5090*	TC-220-L	220	.070"	2.70
A5091*	TC-440-L	465	.070"	4.62

*Standard plates. .025" thick. All others have polished round edge plates. .040" thick.

"TCD" DUAL CONDENSERS

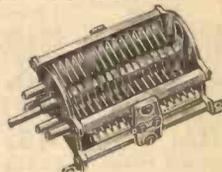
Split stator types having all the features of the TC singles above. Have horizontal tie pillars drilled and tapped for mounting tank coil or neutralizing condensers.

A5092	TCD-55-F	60	.230"	\$8.10
A5093	TCD-40-G	48	.200"	6.30
A5094	TCD-75-G	82	.200"	7.70
A5095	TCD-50-H	53	.171"	5.88
A5096	TCD-110-H	115	.171"	9.60
A5097	TCD-240-J	250	.100"	11.40
A5098	TCD-90-K	95	.084"	4.50
A5099	TCD-165-K	170	.084"	6.60
A5100	TCD-325-K	335	.084"	12.30
A5101*	TCD-30-L	88	.070"	2.30
A5102*	TCD-210-L	215	.070"	4.95
A5103*	TCD-500-M	505	.030"	3.90

*Standard plates. .125" thick. Others have polished round edge plates. .040" thick.

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. Isolantite insulation. Silver-plated Beryllium rotor contact wiper; floating bearings for consistently smooth operation.



No.	Type	Mmf.	Airgap	NET
A5630*	MTC-35-A	35	.171"	\$3.60
A5631*	MTC-20-B	20	.070"	1.95
A5632*	MTC-35-B	35	.070"	2.10
A5633*	MTC-50-B	50	.070"	2.34
A5634*	MTC-100-B	100	.070"	3.00
A5635*	MTC-150-B	150	.070"	3.66
A5636*	MTC-50-C	50	.031"	1.68
A5637*	MTC-100-C	100	.031"	1.83
A5638*	MTC-150-C	150	.031"	1.92
A5639*	MTC-250-C	260	.031"	2.16
A5640*	MTC-350-C	365	.031"	2.40

†Polished round edge plates. .040" thick.

‡Polished round edge plates. .025" thick.

*Standard type plates. .025" thick.

"MTC-D" DUAL CONDENSERS

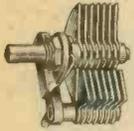
Split stator condensers with all features of MTC singles above. Connect stators in series for half the capacity at twice the breakdown voltage.

No.	Type	Cap. Per Sec.	Airgap	NET
A5641	MTCD-20-B	20	.070"	\$3.15
A5642	MTCD-35-B	35	.070"	3.45
A5643	MTCD-50-B	50	.070"	3.90
A5644	MTCD-100-B	100	.070"	5.25
A5645*	MTCD-50-C	50	.031"	2.70
A5646*	MTCD-100-C	100	.031"	3.00
A5647*	MTCD-150-C	150	.031"	3.15
A5648*	MTCD-250-C	265	.031"	3.60

*Plain edge plates. Others are rounded edge.

Hammarlund Precision PRODUCTS

FAMOUS "STAR" MIDGET CONDENSERS



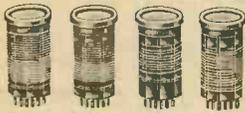
Popular low-priced midgets for set builders and experimenters. Sizes for short wave tuning, regeneration, verniers, etc. Single hole mount, 1/4" shaft. Size, 1 1/2" x 1 1/2", high, and up to 1 1/2" deep behind panel, depending on capacity.

No.	Type	Mmf.	List	NET
A5328	SM-15	15	\$0.85	51c
A5329	SM-25	25	85	
A5330	SM-50	50	90	54c
A5331	SM-100	100	1.00	60c
A5332	SM-140	140	1.25	75c

DOUBLE-SPACED "STARS"

Similar to standard "STAR" condensers listed above, but with greater air-gap between adjacent rotor and stator plates, allowing use in low-power transmitter circuits.

A5333, Max. capacity 35 mmf.	60c
List. \$1.00. NET	
A5335, Max. capacity 50 mmf.	75c
List. \$1.25. NET	



"SWK" S.W. PLUG-IN COILS

Efficient, well-designed S. W. coils. Wound on low-loss XP-53 forms. High frequency coil secondaries have heavy silver-plated wire. Others have heavy enameled copper wire. For use with 140 mmf. condenser.

4 Prong Coils: 17-270 Meters. Kit of 4, two-winding coils. **\$1.80**

6 Prong Coils: 17-270 Meters. Kit of 4, three-winding coils. **\$2.25**

A5368, List, \$3.75. NET.....

INDIVIDUAL "SWK" COILS

4 prong coils have two windings; 6 prong have three windings. For 140 mmf. condenser.

Range	4 Prong	6 Prong
10-20 Meters	A5399	A5389
17-41 Meters	A5390	A5392
33-75 Meters	A5391	A5393
NET EACH.....	60c	75c
66-150 Meters	A5394	A5396
135-270 Meters	A5395	A5397
NET EACH.....	45c	60c
250-550 Meters	A5369	A5370
NET EACH.....	75c	90c

NEW "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. 1 1/2" dia. x 2 1/2" long. Natural amber color.

A5371, 4 Prong, **21c**

A5372, 5 Prong, **EACH..... 21c**

A5373, 6 Prong, **..... 24c**

"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. 2 1/4" dia. x 3 3/4" long.

A5379, TCF-4, 4 Prong, **..... 42c**

A5380, TCF-5, 5 Prong, **EACH..... 42c**

CF-M COIL FORM



Insulantite coil forms designed for inmaximum efficiency at ultra-high frequencies. Forms are 1 1/4" 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 coils tuning 28 and 56 MC bands.

A5382, List, \$1.00. **YOUR PRICE..... 60c**

HAMMARLUND CHOKES

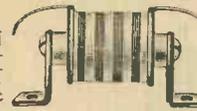
MIDGET CH-X CHOKE



For receivers and transmitters. Adaptable to many uses in even the smallest space. Universal-winding. Entirely impregnated. Center core is of Insulantite. May be mounted by its own leads in any position. D.C. resistance, 35 ohms. 2.1 MH at 125 MA. 1 1/4" x 1/4". **36c**

TYPE CH-8

A low-loss 8 MH. R. F. choke ideal for short-wave receivers and transmitters. Section-wound on compact Insulantite spool. Moisture-proof windings are protected by lacquer and cellophane. Equipped with flexible leads and reversible end brackets for universal mounting. D.C. resistance, 70 ohms. Current rating 125 MA. Size, 1 1/4" x 1/4". **66c**



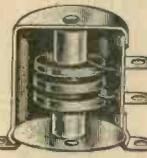
X-MITTING CHOKE—CH-500

A heavy-duty choke for parallel feed in high-powered transmitters in 20-40-80 and 160-meter bands. Has universal-wound pie on Insulantite core. Inductance, 2 1/2 mh.; D.C. resistance, 40 ohms. 500 M.A. continuous rating. Size: 1 1/4" dia. 2 1/2" long. **\$1.05**

A5345, List, \$1.75. NET.....

SHIELDED CH-10-S

Completely shielded in aluminum shell; especially suited for use in high-gain circuits. Eliminates circuit instability since there is no stray coupling. Has three impregnated universal-wound pies. Diameter, 1 1/4". Inductance, 10 mh.; D.C. resistance, 65 ohms. 100 M.A. capacity. **60c**



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.; D.C. resistance, 215 ohms. Max. current rating, 60 M.A. Bakelite case is 1 1/4" high and 1 1/4" in dia. **\$1.20**



STANDARD SOCKETS

Low-loss Insulantite sockets. Have long leakage paths. With positive rust-proof side-gripping contacts. With mounting pillars. Glazed top and sides. Standard 1 1/2" mounting centers.

A5339, 4 prong.	NET EACH 36c
A5340, 5 prong.	
A5341, 6 prong. 45c
A5342, 7 prong (Medium).	
A5343, 7 prong (Small).	
A5337, 8 prong (Octal).	



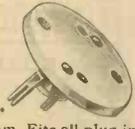
ACORN TUBE SOCKET

For RCA 955, 956, and 954 Acorn type tubes. Low-loss. Glazed Insulantite base. Silver-plated bronze spring clips. 1 1/4" dia. with two mounting holes. 1 3/8" mtg. centers. **90c**



NEW XS-2 CRYSTAL SOCKET

Mounts inside the SWF coil forms at left, for Crystal Oscillator or Tritet Oscillator stages of transmitters. Insulantite; two special reinforced contact clips. 1 1/4" diam. Fits all plug-in crystal holders with 1 3/8" pin centers. **30c**



ISOLANTITE INSULATORS

A new line of standoff type insulators of typical Hammarlund quality. Made of pure glazed Insulantite, these heavy-duty insulators will not chip or crack. Accurately cut threads prevent annoying thread stripping when end screws are tightened. All SOS types are 1/4" diameter; all SOL types are 3/8" diameter. Threaded top and bottom for machine screws of standard thread; less hardware. Highest quality insulators.



No.	Type	Length	NET
A5050	SOS-75	3/4"	9c
A5051	SOS-100	1 1/4"	12c
A5052	SOS-150	1 3/4"	15c
A5053	SOS-250	2 1/2"	18c
A5054	SOL-100	1"	18c
A5055	SOL-150	1 1/2"	24c
A5056	SOL-200	2"	30c
A5057	SOL-350	3 1/2"	42c

INSULATOR HARDWARE

For SOS and SOL insulators above. SOS and SOL: plain tip with cadmium-plated lug, screws, lock-washers, fork washer, and mounting base. SOJ and SOLJ include all hardware but have jack top.

No.	Type	NET
A5058	SOSP for SOS units.	6c
A5060	SOLP for SOL units.	9c
A5059	SOJ for SOS units.	9c
A5061	SOLJ for SOL units.	12c

"CS-3" COIL SHIELD

Very effective as a general purpose shield. Made of heavy aluminum and slotted to afford easy handling. Comes in 2 pieces, top and bottom. Can be used for coils and condensers, etc. Diameter is 3", height is 3 1/2". **30c**



NEW PTS POWER TUBE SHIELDS

Designed to provide proper shielding for screen grid, pentode, and similar type transmitting tubes. Increases circuit stability and reduces feedback from RF circuits. PTS is for 807, RK-23, etc.; 2 1/4" dia., 3" high. PTSH is for RK-20, 814, etc.; 2 1/4" dia., 2 1/4" high. **24c**

A5596, PTS Shield, NET.....

A5597, PTSH Shield, NET.....

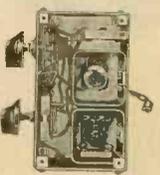
"TS-50" ALUMINUM TUBE SHIELD

Complete isolation is afforded by this shield for the new high-gain RF pentodes. Drawn-in neck completes shielding between top and bottom sections. Special design affords maximum cooling. 4 1/4" high, 1 1/2" diameter. With 1 1/2" mounting centers. **24c**



VARIABLE CRYSTAL FILTER

NEW TYPE XU-455
Identically the same as the crystal filter unit used in the famous Hammarlund HQ-120X receiver. This unit enables the Amateur or Experimenter to add "full range selectivity" to receiver selectivity this feature. Six selectivity positions; three for phone and three for CW reception, controlled by front panel switch. Equipped with high quality 455 KC crystal, can be used with any receiver having 456 KC IF by adjusting IF transformers to crystal frequency. Completely enclosed. Panel control of selectivity and crystal phasing. Size, 2 1/2" wide, 3" deep, 5" high. **\$18.00**



HAMMARLUND S.W. MANUAL

A 32 page book containing up-to-the-minute constructional data on Short- and Ultra Short-Wave receivers, power supplies, transmitters, preselectors, converters; includes tuning hints and Short-Wave Station List. Profusely illustrated. An ideal manual for the Short-Wave enthusiast and beginner Amateur. **10c**

Transmitting Equipment



TYPE T21

A Beam-Power tetrode by Taylor for all classes of RF service. Husky construction throughout. For use as pentode or Tri-Tet oscillator, buffer, frequency multiplier, and power amp. Isolantite base; 6 prong, 21 W. plate dissipation. 6.3 V. fil. at 9 A. Plate, 400 V. at 95 M.A. max.
A1120. NET.....\$1.95



TYPE T20

A general-purpose triode especially suited to all low-power transmitter circuits. Will furnish efficient performance as RF amplifier at all frequencies up to 56 MC. Filament, 7.5 volts at 1.75 A.; Plate, 750 volts max. for Class C service; Max. D.C. plate current, 75 M.A. RF output, 42 W.
A1100. NET.....\$2.25

TYPE TZ20

A high-mu triode for Zero Bias Class B Audio operation, and for efficient frequency multiplying. Same general characteristics as T20 but has amplification factor of 62. Class B audio output, 70 W. per pair.
A1101. NET.....\$2.25



TYPE 866

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 866 or 866A rectifier tubes.
A1109. NET.....\$1.50

Taylor

TRANSMITTING TUBES

TYPE 866 Jr.

A half-wave mercury vapor rectifier for all medium and low-voltage requirements. Fil., 2.5 V. at 2.5 A. Max. RMS A.C. volts, 1250. Max. D.C. current per pair with choke input, 250 M.A. Standard 4 prong ceramic base. Filament 4 prong is multistrand type.
A1108. NET.....\$1.00

TYPE TW-150

NEW. Thin-wall carbon anode, .015" thick. 150 W. plate diss. Fil. 10 V. at 4.1 A. Plate, 3000 V. at 200 M.A. max. G₂ to P. cap, 2.3 mmf. Grid drive, 20 W. max. Amplification factor 35. Enclosed type anode; visible operating temperature. Class C output, 465 Watts.
A1121. NET.....\$15.00

Type	No.	Plate Diss.	Class of Service	NET
203A	A1116	100 W.	B-C	\$10.00
805	A1147	125 W.	B-C	13.50
814	A1106	200 W.	B-C	18.50
824	A1119	200 W.	B-C	18.50
841SW	A1111	50 W.	C	8.00
T200	A1105	200 W.	C	21.50
HD203A	A1118	150 W.	B-C	14.50

WRITE FOR COMPLETE TAYLOR TUBE MANUAL GIVING FULL TUBE DETAILS. SENT FREE ON REQUEST.

TYPE T55

A medium-power triode capable of high efficiency at all frequencies up to 120 M.C. Plate diss., 55 W. Max. RF output per tube, 168 W. Plate, 1500 V. at 150 M.A. max. Fil., 7.5 V. at 3.0 A. Ampl. factor, 20. Requires a minimum of driving power for maximum output. Floating carbon anode.
A1102. NET.....\$6.00

TYPE T40

"The Wonder Tube." Plate diss., 40 W. Max. RF output, 86 W. ample to drive a 1 KW amplifier. Fil., 7.5 V. at 2.5 A. Plate, 1000 V. at 115 M.A. maximum. Ampl. factor, 25. Needs only 3 W. grid drive.
A1148. NET.....\$3.50

TYPE TZ40

A zero bias triode. General characteristics same as T40, but ampl. factor of 62. For use as frequency multiplier or Class B modulators. Class B audio output, 175 W. per pair with only 3 W. grid drive.
A1149. NET.....\$3.50

TYPE 203Z

An improved zero bias version of the always-popular 203A, intended for Class B audio service. Will deliver 300 W. of audio with only 8 W. grid drive. Fil., 10 V. at 3.25 A. Plate, 1250 V. at 175 M.A. Metal plate, 65 W. diss. Also for RF use up to 15 M.C.
A1113. NET.....\$8.00

TYPE T125

A husky triode with carbon anode and patent accelerating fin for higher efficiency. Plate diss., 125 W.; max. plate input, 400 W. Fil., 10 V. at 4.5 A. Plate, 2000 V. D.C. at 200 M.A. RF output, Class C 300W. Ampl. factor, 25. Plate to grid, 4.5 mmf.
A1103. NET.....\$13.50

BLILEY MOUNTED CRYSTALS

TYPE LD2

A high activity crystal with frequency drift of less than 4 cycles (±) per megacycle per degree C. Will operate with in .03% of specified frequency in standard oscillator circuits at calibration temperature. Specify frequency when ordering.

FREQUENCY WITHIN 5 KC.

No.	Band MC	NET EACH
A2516	3.5-4.0	\$4.80
A2517	1.7-2.0	

EXACT FREQUENCY

No.	Band MC	NET EACH
A2519	3.5-4.0	\$5.90
A2520	1.7-2.0	

TYPE BC3

Accurately calibrated crystal mounted in a molded bakelite holder with heat dissipating stainless steel cover plate. Plugs into 5 prong tube socket. Specify frequency when ordering.

STOCK NO.	Frequency Within	Band MC	NET EACH
A2525	± 5 KC	7.0-7.3	\$3.35
A2526	± 5 KC	3.5-4.0	
A2611	± 10 KC	1.7-2.0	
A2623	± 25 KC	7.3-7.5	\$4.95
A2527	EXACT	7.0-7.3	
A2528	EXACT	3.5-4.0	
A2518	± 5 KC	7.3-7.5	

TYPE CFI CRYSTAL FILTER

For crystal filter circuits in Single Signal receivers. Vertical mounting. Sealtite holder; pins fit 5 prong socket. Holder size, 1 1/4 x 1 1/4 x 1/2".
A2529. 456 KC. \$5.50
A2609. 465 KC. \$9.50
A2610. 500 KC. EACH
A2608. 1600 KC. EACH

TYPE B5

Superior 20 and 40 meter crystals. Less than 4 cycles /MC/°C drift. Rugged holder of low-loss material. 7 MC units have high activity and increased output.

No.	Frequencies	Within	EACH
A2615	7.0 to 7.3 MC	5 KC	\$ 4.80
A2616	7.0 to 7.3 MC	Exact	5.90
A2617	14 to 14.4 MC	15 KC	7.50
A2618	14 to 14.4 MC	5 KC	12.00
A2619	14.4 to 15 MC	30 KC	7.50
A2620	14.4 to 15 MC	5 KC	17.50

TYPE HF2

High frequency "C" cut crystals with drift of only 20C/MC/°C (A2621 is 43C/MC/°C); mounted between stainless steel electrodes.

No.	Frequencies	Within	EACH
A2521	14.0 to 14.4 MC	15 KC	\$5.75
A2522	14 to 15.0 MC	30 KC	
A2523	14.0 to 14.4 MC	5 KC	10.00
A2524	14.4 to 15.0 MC	5 KC	15.00
A2621	28 to 30 MC	50 KC	5.75

VF-1 VARIABLE FREQUENCY UNIT

Easily adjusted variable frequency crystals. 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. Plug-in socket.
A2530. 3.5 MC ± 5 KC of specified minimum frequency. \$6.60

A2514. 7 MC ±15 KC of specified minimum frequency. NET.....\$6.60
A2531. 3.5 MC. Exact specified frequency. \$8.50
A2515. 7 MC ±5 KC of specified minimum frequency. NET.....\$8.50

BLILEY CRYSTAL HANDBOOK

A complete handbook on frequency control with quartz crystals, which every Amateur should have. Twenty-eight pages explaining theory, use, application, and care of crystals.
A2624. NET.....10c

Bliley Catalog G11 on Police, Broadcast, and General Communication Crystals sent on request.

BLILEY 100-1000 KC UNIT

A special dual frequency crystal sealed in special holder ready for mounting. For use in frequency standards or calibration oscillators will provide accurate 100 and 1000 KC signal when adjusted to zero beat with Standard Frequency transmissions from WWV. Engineering Bulletin E-7 containing full data will be sent free on request.
A2534. Type SMC-100. NET.....\$7.75

KNIGHT UNMOUNTED TRANSMITTER CRYSTALS

High quality, inexpensive, unmounted X-cut crystals. Accurately ground from the finest quartz available. Calibration will be within 1% of operating frequency under normal conditions, dependent on type of mounting used. Specify frequency, and closest stock unit will be shipped. Not available for frequencies outside of the Amateur 1.7, 3.5, and 7 MC bands.

No.	Frequency Kilocycles	NET
A2510.	7000-7300	\$1.95
A2511.	3500-4000	\$1.50
A2512.	1715-2000	\$1.50

KELVIN MULTIPLE CRYSTAL HOLDER

Simplifies the problem of mounting several crystals in quick frequency change excitors. Either type requires only single hole panel mounting; has selector switch for changing crystals. With knob and switch plate.
A2596. Type P8. Holds eight unmounted crystals 1" square or smaller. \$5.25
A2595. Type B6. Holds six plug-in type mounted crystals. \$3.60



BLILEY CRYSTAL HOLDERS

Molded bakelite holders for Inch square crystals. Threaded screw top. Plugs into tube socket. Mounts in any position. Best quality at low cost.
A2532. 20-40 meter 95c
A2533. 80-160 meter. EACH

Transmitting Equipment



TYPE RK49

A beam-power tetrode similar to the 6L6, but having a six prong Isolantite base. An ideal crystal oscillator, frequency multiplier, or neutralized RF amplifier. It may be either plate or screen modulated. Fil., 6.3 V. at 9 A. Plate, 400 V. at 95 M.A. max. Power output, 25 W. max. Carbon-nickel plate rated at 21 W. dissipation. Requires only 0.2 Watt grid driving power in R. F. amplifier service. **\$2.10**

TYPE RK43

A dual-triode for use as oscillator or amplifier in portable equipment with dry-film filament supply. Fil., 1.5 V. at 0.12 A. Plate, 135 V. at 14 M.A. **\$1.50**

TYPE RK34

A twin-triode for use as audio amplifier. Class C oscillator, frequency multiplier, or R.F. amplifier. Fil., 6.3 V. at 0.8 A. Plate, 300 V. at 80 M.A. max. Isolantite base. **\$3.50**

TYPE RK47

An aligned-grid beam-power tetrode with R.F. output of 120 W. with only 1.5 W. grid driving power. Fil., 10 V. at 3.25 A. Plate, 1250 V. at 138 M.A. **\$17.50**

TYPE RK48

A high-power aligned-grid tetrode with 100 W. plate dissipation, 250 W. power output. Fil., 10 V. at 5 A. Plate, 2000 V. at 180 M.A. max. Driving power required, 1.0-1.6 W. **\$27.50**

TYPE RK39

A low-power aligned-grid beam-power tetrode with max. R.F. power output of 36 W. Fil., 6.3 V. at 9 A. Plate, 600 V. at 93 M.A. R.F. driving power required, 0.5 W. Isolantite base. **\$3.50**

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. Max. output current, 250 M.A. High vacuum type, 4 prong base. Replaces 83, 83V and 5Z3 rectifiers. **\$2.75**

TYPE RK56

Beam type RF tetrode. Heater, 6.3 V. at .55 A. Plate, 300 V. at 62 M.A. max. Driving power, .1 W. 5 prong base. **\$3.00**

TYPE RK57

Triode with thoriated filament, for RF or Class "B" audio service. Fil., 10 V. at 3.25 A. Plate, 1500 V. at 200 M.A. Plate dissipation, 125 W. 50 W. base. **\$13.50**

TYPE RK59

A twin-triode for use as RF oscillator or amplifier or Class B audio tube. Fil., 6.3 V. at 1 A. Plate, 500 V. at 90 M.A. max. 4 prong base. **\$4.50**

TYPE RK62

A gas-triode for use as detector-thyratron. Fil., 1.4 V. at .05 A. Plate, 45 V. at 1.5 MA. 4 prong base. **\$3.50**

TYPE RK64

A low-power RF pentode. Fil., 6.3 V. at .5 A. Plate, 300 V. at 35 M.A. Power output, 10 W. with .18 W. driving power. 5 prong base. **\$3.50**

TYPE RK11



A medium-power triode with an output of 15 W. requiring only 3.2 W. grid driving power. For use as oscillator, frequency multiplier, or R.F. amplifier. Fil., 6.3 V. at 3.0 A. Plate, 750 V. at 105 M.A. max. Plate dissipation, 25 watts. Has a thoriated tungsten filament and Isolantite base. Plate connection at top cap. **\$2.50**

TYPE RK12

Similar to RK-11 above, but zero-bias Class B tube. RF power output, 55 W. Class B audio output, 100 W. per pair. **\$2.50**

TYPE RK63

A low-C triode for general R.F. use. Fil., 5 V. at 10 A. Plate, 3000 V. at 233 M.A. max. Tantalum plate and grid. Plate dissipation, 200 W. **\$22.00**

TYPE 866

Fil., 2.5 V. at 5 A. Inverse peak, 7500 V., peak plate curr. 1 A.; D.C., 5 A. **\$1.50**

A649. NET. **\$1.50**
A866. Type 866A. NET. **\$2.50**

PENTODES

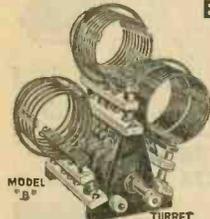
Type	No.	Plate Diss.	Service	NET
RK20A	A655	40W	C	\$15.00
RK23	A856	10W	C	4.50
RK25	A658	10W	C	3.95
RK28A	A660	125W	C	28.50

HANDBOOK OF AMATEUR TUBE USES

71 pages of data, curves and characteristics. FREE with Raytheon transmitting tube order of \$5.00 or more. Essential to every user of Raytheon tubes. **50c**



BARKER-WILLIAMSON AIR INDUCTORS



Accurately designed and carefully assembled to provide maximum power or grid current efficiency. Eliminate bulky home-made coils with high R. F. power loss. Get increased performance with these B. & W. coils. All Standard coils center-tapped. Power ratings are: B, BL and BVL series, 100 W.; T and TL series, 250 W.; HDVL series, 1KW. In ordering BL series coils, specify whether end or center link is desired. Equipped for plug-in with banana plugs. *Capacity to resonate at low frequency end of band. These B-W Air Inductors are quality-designed and quality-built.



Cat. No.	Type	Cap. Mmf.	Wire Size	Dia.	NET
"B" SERIES—STANDARD COIL					
A12800	160B	110	18	2 1/2"	\$1.75
A12801	80B	52	16	2 1/2"	1.55
A12807	40B	43	14	2 1/2"	1.30
A12803	20B	40	14	2"	1.20
A12804	10B	28	12	2"	1.00
"BL" SERIES—LINKED TYPE COIL					
A12805	160BL	110	18	2 1/2"	\$2.50
A12806	80BL	52	16	2 1/2"	2.30
A12807	40BL	43	14	2 1/2"	2.05
A12808	20BL	40	14	2"	1.80
A12809	10BL	28	12	2"	1.75
A12854	Jack Bar for "B" and "BL" series coils.	NET			\$5.5c
"T" SERIES—STANDARD COIL					
A12815	160T	115	12	5"	\$1.85
A12816	80T	60	12	3 1/2"	1.65
A12817	40T	38	12	2 1/2"	1.40
A12818	20T	30	12	2 1/2"	1.15
A12819	10T	25	12	2"	1.10
"TL" SERIES—LINKED TYPE COIL					
A12820	160TL	115	12	5"	\$2.85
A12821	80TL	60	12	3 1/2"	2.65
A12822	40TL	38	12	2 1/2"	2.40
A12823	20TL	30	12	2 1/2"	2.15
A12824	10TL	25	12	2"	2.10
A12852	Jack Bar for "T" and "TL" series coils.	NET			\$1.25

MODEL "B" TURRET SWITCH
Provides quick bandswitching for any three "B" or "BL" coils. Positive wiping action switch; Alsimag 196 jack bars. **\$7.50**
A12859. Less coils. NET.

Cat. No.	Type	Cap. Mmf.	Wire Size	Dia.	NET
"BVL" SERIES—SWINGING LINK COIL					
A12844	160BVL	150	18	2 1/2"	\$2.10
A12845	80BVL	70	16	2 1/2"	1.90
A12846	40BVL	40	14	2 1/2"	1.65
A12847	20BVL	40	14	2 1/2"	1.45
A12848	10BVL	35	8	2 1/2"	1.40
A12849	5BVL	25	8	2 1/2"	1.35
A12857	BVL Coil mounting assembly with swinging link.	NET			\$2.50
"TVL" SERIES—SWINGING LINK COIL					
A12839	160TVL	65	18	2 1/2"	\$2.25
A12840	80TVL	55	14	2 1/2"	2.15
A12841	40TVL	34	12	2 1/2"	1.90
A12842	20TVL	28	12	2 1/2"	1.65
A12843	10TVL	22	6	2 1/2"	1.60
A12894	TVL Coil mounting assembly with swinging link.	NET			\$4.00
"HDVL" SERIES—SWINGING LINK COIL					
A12835	80HDVL	44	10	3 1/2"	\$4.50
A12836	40HDVL	28	8	3 1/2"	4.00
A12837	20HDVL	25	8	3 1/2"	3.75
A12838	10HDVL	25	4	2 1/2"	3.25
A12855	HDVL Coil mounting assembly with swinging link.	NET			\$5.00

MODEL 2A BANDSWITCH

A small, compact coil and band-switching 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. **\$3.25**
A12893. NET.



B-W "BABY" PLUG-IN AIR INDUCTORS

Midget-size plug-in coils mounted on Alsimag 196 5-prong bases. Micrometer spaced with low-loss Acetate spacer strips. Only 1 1/2" long, 1/4" diam. For use wherever space is limited. 25 W. rating. Capacity to tune to low frequency end of band.



Freq. Band	Straight Coil	C. T. Coil	Cap. Mmf.
160	A12865	A12870	100
80	A12866	A12871	48
40	A12867	A12872	48
20	A12868	A12873	48
10	A12869	A12874	48
End Link			
160	A12875	A12880	100
80	A12876	A12881	48
40	A12877	A12882	35
20	A12878	A12883	28
10	A12879	A12884	28

NET PRICE EACH COIL... **\$1.00**

B-W "BABY" FIVE-BAND COIL TURRET ASSEMBLIES

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. Type BTM is untapped, without link coupling, for capacity coupled stages. BTCT is center tapped, no link. BTEL is untapped with end link for interstage coupling. BTCL is center tapped with center link for balanced output stages.



A12888. BTM. NET EACH... **\$8.50**
A12889. BTCT.
A12890. BTEL.
A12891. BTCT.

Transmitting Equipment

OHMITE VOLTAGE DIVIDERS



Ideal for transmitter power supplies. Have sliding contacts. 100 watt size is 6 1/4" long; 200 watt, 10 1/2" long. Hollow ceramic core prevents overheating; has baked enamel coating.

50 WATT

No.	Ohms	M.A.	NET Each
AB359	250	447	
AB360	500	316	
AB361	750	258	
AB362	1000	224	
AB363	1500	183	
AB364	2000	158	79c
AB365	2500	142	
AB366	5000	100	
AB367	10000	70	
AB368	15000	57	88c
AB369	20000	48	
AB370	25000	43	
AB371	30000	41	
AB372	40000	35	\$1.00
AB373	50000	25	
AB374	100000	18	1.18
AB399	EXTRA SLIDER		6c

100 WATTS

AB375	1000	316	\$1.18
AB376	5000	141	
AB377	10000	100	
AB378	15000	81	\$1.32
AB379	20000	70	
AB380	25000	56	
AB381	30000	51	
AB382	40000	38	1.47
AB383	50000	28	
AB384	75000	16	1.62
AB385	100000	14	
AB386	EXTRA SLIDER		9c

200 WATTS

AB387	1000	447	
AB388	5000	200	\$1.76
AB389	10000	141	
AB390	15000	115	
AB391	20000	100	
AB392	25000	89	
AB393	30000	81	
AB394	40000	63	
AB395	50000	49	2.06
AB396	75000	30	
AB397	100000	20	
AB398	EXTRA SLIDER		9c



OHMITE R.F. PLATE CHOKES

For all transmitter circuits. Ceramic core. Rated at 1000 MA.

AB250. TYPE Z1. For the 5 meter band. Inductance, 5.4 microhenries. D.C. resistance, .85 ohms. 1 1/4" long. Pigtail leads. **15c**

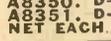
AB251. TYPE Z2. For 10 and 20 meters. 35 microhenries. Resistance, 2 ohms. Length, 3" diam. 3/4". With mtg. brackets. **44c**

AB252. TYPE Z3. For 20 and 40 meters. 95 microhenries. Resistance, 5 ohms. Length, 6" diam. 3/4". With mtg. brackets. **65c**

AB253. TYPE Z4. For 20, 40, 80, 160 meters. 220 microhenries. Resistance, 9 ohms. Size, 6 1/2 x 3/4". With brackets. **88c**

OHMITE D-100 DUMMY ANTENNA

Designed to take the guesswork out of transmitter tuning. Special 100 watt resistor maintains constant resistance and impedance at high Radio Frequencies; glass-enclosed and plugs into standard 4 prong socket. Used with R.F. ammeter, it permits accurate checking of output and efficiency of transmitter or of individual stages. Write for descriptive bulletin No. 111. **AB350. D-100. 75 ohm. NET EACH. \$3.23**



OHMITE PARASITIC SUPPRESSOR

High efficiency combination of choke and vitreous enameled resistor. Prevents parasitics in grid leads of RF stages. Size: 1 1/2" x 3/4". **AB353. Type P-300. NET. 88c**



RCA TRANSMITTING TYPE TUBES

TYPE 807

An exceptionally efficient beam-power transmitting tube especially designed for use in oscillator, frequency multiplier, buffer, or R.F. amplifier stages. Requires only 0.22 watts grid driving power for maximum output. Fil. 6.3 V. at 0.9 A. Plate, 600 V. at 100 M.A. Plate dissipation, 25 W.

A312. \$3.50

NET.....

TYPE 809

Low-power triode having power output of 55 W. with grid drive of 2.5 W. Fil., 6.3 V. at 2.5 A. Plate, 750 V. at 100 M.A. max. Plate dissipation, 25 W. Will deliver 100 W. audio per pair Class B. **\$2.50**

A362. NET.....

TYPE 810

A new high-power output triode; 1/2 KW plate input, 1 KW for two in PP. For Class "C" service up to 30 MC. Fil., 10 V. at 4.5 A. Plate, 2000 V. at 250 MA. max. Plate diss. 125 W. Grid driving power required, only 24 W. per pair. Output 375 W. max. **\$13.50**

A318. NET.....

TYPE 813

High-power "beam" tube, with 260 W. output with only 1/2 W. grid drive. For Class "C" service up to 30 MC. Fil., 10 V. at 5 A. Plate, 2000 V. at 180 MA. max. **\$28.50**

A316. NET.....

A4010. Socket for above. NET.....73c

TYPE 954

Acorn-type pentode for use in U. H. F. receivers or transmitters. Fil., 6.3 V. at 0.15 A. Plate, 250 V. Especially fine for use in receivers at frequencies above 56 M.C. **\$5.00**

A354. NET.....

TYPE 955

The original "Acorn" triode. For detector in U.H.F. sets for frequencies above 56 M.C. Fil., 6.3 V. at 0.15 A. Plate 250 V. max. **\$3.00**

A355. NET.....

COTO LO-LOSS INDUCTORS



Designed for maximum efficiency in either high or low power transmitters. Less bulky than copper tubing coils and require smaller space for mounting. Rigid construction with low dielectric losses. Wire protected from oxidation by coat of colorless baked enamel. Equipped with plug-in base with banana plugs. "BTL" and "BTVL" coils handle up to 300 watts input. Recommended max. tuning condenser capacity is 75 mmf. for 160 meters, 35 mmf. for all other bands.



"T" SERIES

No.	Type	Wire Size	No. Turns	Diam.	NET
A2228	160T	12	42	5"	\$2.29
A2229	80T	10	30	4"	1.94
A2230	40T	10	20	3"	1.71
A2231	20T	10	10	3"	1.29
A2232	10T	10	6	2 3/4"	1.29

"TL" SERIES (WITH FIXED LINK)

A2210	160TL	12	42	5"	\$3.23
A2211	80TL	10	30	4"	2.88
A2212	40TL	10	20	3"	2.65
A2213	20TL	10	10	3"	2.29
A2214	10TL	10	6	2 3/4"	2.23

"TVL" SERIES (WITH VARIABLE LINK)

A2216	160TVL	12	42	5"	\$3.82
A2217	80TVL	10	30	4"	3.47
A2218	40TVL	10	20	3"	3.23
A2219	20TVL	10	10	3"	2.88
A2220	10TVL	10	6	2 3/4"	2.82

"BTL" SERIES (WITH FIXED LINK)

A2245	160BTL	14	36	4"	\$2.70
A2246	80BTL	14	34	2 3/4"	2.62
A2247	40BTL	14	22	2 3/4"	2.35
A2248	20BTL	14	10	2 3/4"	2.15
A2249	10BTL	14	6	2 3/4"	2.09

"BTVL" SERIES (WITH VARIABLE LINK)

A2222	160BTVL	14	36	4"	\$3.29
A2223	80BTVL	14	34	2 3/4"	3.20
A2224	40BTVL	14	22	2 3/4"	2.94
A2225	20BTVL	14	10	2 3/4"	2.73
A2226	10BTVL	14	6	2 3/4"	2.68

STEATITE MOUNTING BASES

Convenient jack assembly for Coto Inductors. Bar and insulators of Steatite with end mounting holes. Jacks fit bar and plug mountings on Coto Inductors. Nickel-plated brass hardware.

No.	Type	For	Jacks	NET
A2150	CI-8TM	T	3	\$1.12
A2151	CI-8TLM	TL, TVL	5	1.18
A2154	CI-6BTLM	BTL, BTVL	5	1.18

TRIODES AND PENTODES

Type	Cat. No.	Plate Dis.	Service	NET
203A	A300	100W	B-C	\$10.00
211	A302	100W	A-B-C	10.00
800	A305	35W	B-C	10.00
801	A306	20W	A-B-C	3.45
803	A307	10W	C	3.50
804	A308	125W	C	28.50
804	A309	40W	C	15.00
805	A310	125W	B-C	13.50
806	A311	150W	B-C	22.00
807	A312	25W	C	3.50
808	A313	50W	B-C	7.75
830B	A314	60W	B-C	10.00
838	A318	100W	B-C	11.00
840	A319	1W	A	6.00
841	A320	15W	A-B-C	3.25
850	A326	100W	C	37.50
852	A327	100W	C	16.40
864	A329	Preamplifier	A	1.00
865	A333	Phototube	C	12.75
868	A333	Phototube	C	4.70
917	A350	Phototube	C	3.75
918	A351	Phototube	C	4.50
921	A365	Phototube	C	2.00
922	A366	Phototube	C	2.00
923	A367	Phototube	C	2.60
956	A356	Acorn Pentode	C	5.00
1608	A359	20W	C	4.00

RECTIFIERS

Type	Cat. No.	Peak Inv. Volts	Max. Amps.	NET
866	A331	7500	0.5	\$ 1.50
866A	A332	10000	0.5	2.50
872	A334	7500	2.5	9.00
878	A336	20000	0.005	11.00
879	A337	7500	0.007	1.30

CATHODE RAY TUBES

Type	No.	Screen Size	NET
913	A349	1 Inch	\$ 4.00
902	A389	2 Inch	7.50
906	A342	3 Inch	13.50

CLASS OF SERVICE: CLASS A: Audio Amplifier. **CLASS B:** Class B Modulator or R.F. Amp. **CLASS C:** R.F. Oscillator or Amp.

"PEE-WEE" COILS

Miniature coils, wound on Alsmag 196 forms. Have five prong bases for tube socket mountings. Handle up to 100 watts; ideal for low or medium power stages. All tune with 140 mmf. condenser.



Freq. Band	C.T.	End Link	Center Link	Cap.
160	A2250	A2255	A2260	140
80	A2251	A2256	A2261	110
40	A2252	A2257	A2262	80
20	A2253	A2258	A2263	55
10	A2254	A2259	A2264	30

NET EACH COIL.....\$1.12

COTO R.F. CHOKES



MIDGET TYPE

CI-11. Inductance, 2.5 mh.; 125 amp., D.C. resistance, 40 ohms; tapered; nickel-plated end caps with pigtails 1 1/2 x 1/2". **A2158. NET.....29c**

CI-12. Similar to CI-11. 250 MA D.C. 2.2 mh., 18.5 ohms D.C. resistance, 1 1/2 x 3/4". **A2159. NET.....35c**

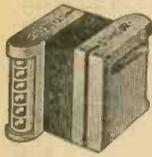
HEAVY-DUTY TYPE

CI-20. For 160, 80 and 40 meter bands. 1/2" core, 3" long. Carries 6 amp.; 3.6 mh.; D.C. resistance, 11 ohms. Size, 3 3/4" x 1 1/4". **A2160. NET.....73c**

CI-21. Maximum impedance on 80, 40 and 20 meter bands. Honeycomb wound; Steatite core. Rated at .6 amps.; 1.1 mh.; D.C. resistance, 6 ohms. Size, 3 3/4" x 1 1/4". **A2161. NET.....73c**

Transmitting TRANSFORMERS

STANCOR AMATEUR TRANSFORMERS



THE NEW "THOROBREDS"

New—modern—and safe! The only transformer series of its kind, incorporating the very latest features of transformer design, plus fully protected high-voltage terminals for greater safety. Modern streamlined case permits close mounting of Thorobred units to conserve space; new vertical type terminal strips permit wiring from bottom, side, or end. Terminals set in extra heavy porcelain strips and fully covered by quickly removable, transparent Pyroloxin cover. Finest type materials and careful workmanship are apparent throughout. Fully impregnated and compound-sealed coils provide complete insulation breakdown protection and prevent annoying vibration hum. Heavy cast iron cases with molded hand-holds, finished in grey enamel.

"THOROBRED" PLATE TRANSFORMERS

Primaries for 115 V. 60 C. *Have 230 V. primaries tapped at 115 V.

No.	Type	D.C. Volts	D.C. M.A.	Wt.	NET
A14420	P-8000	400-500 600-750 450-600	200	20 lbs.	\$ 8.09
A14421	P-8001	750-1000	300	40 lbs.	13.23
A14422	P-8002*	1000-1250	300	45 lbs.	16.17
A14423	P-8003*	1000-1250	500	65 lbs.	24.99
A14424	P-8004*	1250-1500	350	50 lbs.	17.94
A14425	P-8005*	1500-2000	500	85 lbs.	33.52
A14426	P-8006*	1750-2000	300	60 lbs.	22.93
A14427	P-8007*	2500-3000	500	110 lbs.	44.10

"THOROBRED" SWINGING CHOKES

No.	Type	Henries	M.A.	Res.	Insul.	Wt.	NET
A14430	C2310	8-30	200	100	3000V.	5 1/2 lbs.	\$ 4.41
A14431	C2311	8-25	300	80	5000V.	15 lbs.	5.59
A14432	C2312	5-25	400	60	5000V.	25 lbs.	6.47
A14433	C2313	5-20	500	65	5000V.	30 lbs.	10.58

"THOROBRED" SMOOTHING CHOKES

No.	Type	Henries	M.A.	Res.	Insul.	Wt.	NET
A14435	C2320	15	200	100	3000V.	5 1/2 lbs.	\$ 4.41
A14436	C2321	12	300	80	5000V.	15 lbs.	5.59
A14437	C2322	10	400	60	5000V.	25 lbs.	6.47
A14438	C2323	8	500	65	5000V.	30 lbs.	10.58

"THOROBRED" FILAMENT TRANSFORMERS

Incorporate all the distinctive features of "Thorobred" design and construction. P-8021 and P-8022 are multi-secondary units for universal transmitter applications. Secondaries can be connected in series, parallel, or series-parallel. Primaries for 105-115 V. 50-60 cycles.

A14440.	P-8021.	Secondaries: 2.5 CT, 2.5 CT, 2.5, 2.5, all at 4 A. 2500 V. insul. Wt., 5 1/2 lbs. NET	\$4.56
A14441.	P-8022.	Secondaries: 2.5 CT, 2.5 CT, 2.5, 2.5, all at 8 A. 2500 V. insul. Wt., 10 lbs. NET	\$5.88
A14442.	P-8023.	Secondary: 2.5 V. CT. at 10 A. 10,000 V. insul. Wt., 5 lbs. NET	\$4.71

"THOROBRED" DRIVER TRANSFORMERS

Poly-Pedant type units having a large number of usable primary to secondary ratios. Provide accurate impedance match between combinations of driver and modulator tube applications.

No.	Type	Cap. Watts.	Pri. Per Side	M.A.	Ratio Pri. to 1/2 Sec.	Wt. lbs.	NET
A14445	A-8500	15	60	45	1.25:1, 1.4:1, 1.6:1, 1.8:1, 2:1, 2.2:1, 2.4:1	5	\$4.56
A14446	A-8501	15	60	26	1.3:1, 3:1, 3.2:1, 3.4:1, 4:1, 4.5:1, 5:1	4.5	4.41
A14447	A-8502	30	120	125	1.25:1, 1.5:1, 1.75:1, 2:1, 2.25:1, 3:1, 2:1	6	6.32
A14448	A-8503	30	100	125	1.5:1, 2:1, 2.5:1, 3:1, 3.5:1	6	6.32

"THOROBRED" MODULATION TRANSFORMERS

Poly-Pedant types offering correct plate load to the maximum possible number of different modulator tubes. Send for FREE Stancor Catalog containing charts for uses of THOROBRED Driver and Modulation Transformers.

No.	Type	Cap. Watts	Pri. Per Side	M.A.	Secondary Ser.	M.A. Par.	Wt.	NET
A14450	A-8000	15	45	45	90	3 1/2	5	3.53
A14451	A-8001	30	80	80	160	9	5	5.00
A14452	A-8002	60	125	125	250	10	6.91	
A14453	A-8003	125	200	150	300	22	10.88	
A14454	A-8004	300	260	260	520	50	20.58	
A14455	A-8005	600	350	350	700	95	39.40	

SPECIAL DRIVER TRANSFORMERS

Well-designed and efficiently made driver transformers for specific tube applications. Many other types also available; send for Stancor catalog with complete listing.

No.	Type	Pri.	Sec.	Class	Wt.	NET
A14460	A-4721	1-2A3, 6A3, 6A6, 6N7	1-19, 79, 6A6, 53	B	1 1/2	\$1.41
A14461	A-4404	PP2A3, 6A3, 59, 6L6	PP-10, 35T, TZ40, 203A	B	3 1/2	2.44
A14462	A-4702	1-2A5, 6F6, 4Z, 89	PP6L6, PP Par. 6L6	AB-2, AB-1	3	1.94
A14463	A-4703	PP-2A5, 4Z, 6F6, 89	P. P. Par. 6L6, AB-2	AB-2	4	2.35

FREE! STANCOR CATALOG AND TRANSFORMER GUIDE. Contains data on matched power supplies, driver and modulator combinations, and complete Stancor Transformer listings. **FREE! STANCOR "HAMANUAL"** 40 pages of circuits, kits, charts, formulae and design data of value to every Amateur.

KENYON "T" LINE TRANSFORMERS

FAMOUS FOR QUALITY

Representing the most advanced features in design and quality, KENYON T-Line units are first choice of many top-notch manufacturers of Amateur Transmitters and Communications Receivers. Extensively employed by U. S. Military and Naval services, outstanding expeditions, airlines, communications systems, broadcast stations, and discriminating Amateurs. All T-Line units are housed in one uniform style casing, finished in black enamel, providing complete shielding and commercial appearance in any installation. All units are heat-vacuum varnish-treated and hermetically sealed for reliable performance under all climatic extremes. Universal mounting style permits installation with terminals through chassis for absolute safety.



STANDARD AMATEUR PLATE TRANSFORMERS

Cat. No.	Type	D.C. Volts	D.C. M.A.	Wt.	NET
A14350	T-668	500-750	300	12 1/2	\$5.85
A14351	T-669	1000-1250	300	20	9.60
A14352	T-670	1500-1750-2000	300	36 1/2	12.90
A14353	T-671	1000-1250	500	40	12.90

HEAVY-DUTY PLATE TRANSFORMERS

Current ratings given are for Amateur or intermittent service; but units are designed and built for continuous service at current ratings only 20% lower. Uniform T-Line case mounts with terminals up, or for maximum safety can be inverted with all high voltage wiring below chassis.

A14355	T-664	600	200	10 1/4	\$4.50
A14356	T-655*	450-350	325	12	4.80
A14357	T-656†	750-500	400	16 1/2	6.60
A14358	T-657	1000-750	250	23 1/2	13.80
A14362	T-665*	1250-1000	300	28	12.00
A14363	T-666	1250	400	36	14.40
A14364	T-667	1250	600	50	18.00
A14365	T-660†	1250-500	600-400	50	21.00
A14366	T-661	1750	250	28	12.00
A14367	T-662*	1750-1500	550	52	22.80
A14368	T-651*	1750-1500	350	46	18.00
A14369	T-653	2000	350	50	19.20

*Tapped primary. †Designed for double rectifiers, secondary voltages supplied simultaneously. ‡Secondary in series supplies 2000V. at 200 M.A.

SMOOTHING CHOKES

Cat. No.	Type	Henries	M.A.	Res.	Insul.	Wt.	NET
A14373	T-153	30	90	350	1000	2 3/4	\$1.80
A14374	T-152	10	200	100	1000	3 1/2	2.10
A14375	T-166	11	300	125	1500	9 1/4	4.20
A14376	T-167	11	400	80	3000	16	5.70
A14377	T-177	12	500	95	5000	22 1/2	9.00

SWINGING CHOKES

A14380	T-517	15-45	90-20	350	1000	3	\$1.80
A14381	T-506	5-20	200-30	100	1000	3 1/2	2.10
A14382	T-510	6-19	300-30	125	1500	9 1/4	4.20
A14383	T-516	5-20	400-30	80	3000	16 1/2	5.70
A14384	T-521	6-21	500-60	95	5000	22	9.00

FILAMENT TRANSFORMERS

Cat. No.	Type	V. C.T.	Amps.	Insul.	Wt.	NET
A14388	T-360	2.5	10	5000	3	\$2.70
A14389	T-354	5	3	2000	2 1/4	1.95
A14390	T-357	5.25	12	2000	5 1/4	3.30
A14391	T-358	5.25	20	2000	9 1/4	3.90
A14392	T-351	6.3	3	2000	2	1.80
A14393	T-353	7.5	4	2000	2 1/4	1.95
A14394	T-359	7.5	8	3000	5 1/4	3.00
A14395	T-365	10	4	5000	3 1/4	2.70
A14396	T-361	10	8	5000	6	3.60
A14397	T-368	6.3	4	2000	5 1/4	3.90
A14398	T-366	2.5	10	5000	5 1/2	3.90
A14399	T-363	2.5	10	5000	9	4.50

KEN-O-DRIVE UNIVERSAL DRIVER TRANSFORMERS

Unusually flexible design permits using these units in transmitters having a wide range of driver-modulator tube combinations. T-261 and T-262 are designed with tapped primary and secondary to couple a 500 ohm line to any push-pull Class B grids. T-264 and T-263 are designed to couple a 500 ohm line, or any single or push-pull driver plates, to any Class AB or Class B grids.

Cat. No.	Type	Watts	Wt.	NET
A14400	T-261	7	3	\$3.30
A14401	T-262	18	4 1/4	3.90
A14402	T-264	7	3	3.30
A14403	T-263	18	5 1/2	4.50

KEN-O-TAP UNIVERSAL MOD. TRANSFORMER

Completely flexible and adaptable to every transmitter modulator requirement. Tapped primaries and secondaries provide for accurate matching of any combination of modulator tubes and Class C RF load. Don't limit your modulation transformer to one or two tube types; select one of correct audio capacity and use any tube combination you want.

Cat. No.	Type	Pri. Watts	Class C Load Watts	Wt.	NET
A14409	T-489	15	30	3	\$2.40
A14405	T-493	40	80	5 1/4	3.60
A14406	T-494	75	150	10	6.40
A14407	T-495	125	250	21	12.00
A14408	T-496	300	600	34	18.00

FREE! Complete KENYON T-Line Catalog. Contains detailed data on all T-Line components for Amateur, Public Address, Television, Experimental Laboratories, and Industrial applications.

Transmitting Equipment

AEROVOX TRANSMITTING CONDENSERS



HYVOL "09" SERIES

Hermetically sealed in welded steel can, equipped with universal bracket for either upright or inverted mounting. Dielectric is selected paper, oil-impregnated with "Hyvol," the new super-dielectric oil. Recommended for all heavy-duty requirements or for continuous service. Compact in size; conservatively rated for continuous service at rated voltages. High tension pillar terminals with lock-nuts and solder lugs.

Cat. No.	Type	Mfd.	Wkg. V.	NET
A13462	609	1	600	\$2.06
A13463	609	2	600	2.50
A13464	609	4	600	2.20
A13465	1009	1	1000	2.20
A13466	1009	2	1000	2.94
A13467	1009	4	1000	3.67
A13468	1509	1	1500	2.65
A13469	1509	2	1500	3.67
A13470	1509	4	1500	5.00
A13471	2009	1	2000	3.82
A13472	2009	2	2000	5.29
A13473	2009	4	2000	7.06
A13474	2509	1	2500	4.70
A13475	2509	2	2500	7.64
A13476	3009	1	3000	7.06
A13477	3009	2	3000	8.82

HYVOL "05" SERIES

Increasingly popular for all transmitting requirements. These units have pure linen paper dielectric, impregnated with "Hyvol" oil. All voltage ratings are conservative for continuous operation. Hermetically sealed in round aluminum containers. Terminals equipped with lock nuts and solder lugs are adequately insulated by means of high-tension pillars. Mounts upright or inverted. An exceptionally high-grade transmitting condenser. With ring mount.



Cat. No.	Type	Mfd.	Wkg. V.	NET
A13510	605	1	600	\$1.47
A13511	605	2	600	1.91
A13512	605	4	600	2.65
A13513	1005	1	1000	1.62
A13514	1005	2	1000	2.09
A13515	1005	4	1000	2.79
A13516	1505	1	1500	2.06
A13517	1505	2	1500	2.79
A13518	1505	4	1500	3.53
A13519	2005	1	2000	2.65
A13520	2005	2	2000	3.53
A13521	2505	1	2500	2.54
A13522	2505	2	2500	5.88
A13523	3005	1	3000	5.29

SPRAGUE OIL-FILLED X-MITTING CONDENSERS

WITH "LIFEGUARDS"

New oil-impregnated and oil-filled transmitting type filter condensers with "Lifeguard" terminal caps for safety. Hermetically sealed metal containers with universal type clamps to permit either upright or inverted mounting. Selected dielectric fully oil-impregnated and filled with Sprague, thus providing conservative working voltage ratings for trouble-free service. High-tension type porcelain stand-off terminals equipped with "Lifeguard" rubber protectors.



Cat. No.	Type	Mfd.	Wkg. V.	NET
A13333	CR-16	1	600	\$2.06
A13334	CR-26	2	600	2.50
A13335	CR-46	4	600	3.23
A13336	CR-11	1	1000	2.94
A13337	CR-21	2	1000	3.67
A13338	CR-41	4	1000	5.29
A13339	CR-115	1	1500	2.65
A13340	CR-215	2	1500	3.67
A13341	CR-415	4	1500	5.00
A13342	CR-12	1	2000	3.23
A13343	CR-22	2	2000	3.82
A13344	CR-42	4	2000	5.29
A13345	CR-125	1	2500	4.70
A13346	CR-225	2	2500	7.64
A13347	CR-13	1	3000	7.06
A13348	CR-23	2	3000	8.82

"LIFEGUARDS" ONLY

Available separately for use on high voltage terminals on filter condensers, transformer taps, etc. Made of high-voltage insulation, slotted to fit over lugs, connectors, feed-thru and standoff insulators, etc. Here's your chance to cover up those exposed high voltage points for maximum safety.



A13349. NET PER PAIR..... 15c

LOW-COST KNIGHT OIL-IMPREGNATED CONDENSERS

These hermetically sealed, oil-impregnated filter condensers are a real "buy" for any Amateur. No effort has been spared to include every detail of advanced design, quality materials, and careful assembly. Built for maximum service and conservatively rated for long life. Terminals are on glazed porcelain standoff insulators; with heavy mounting feet.



1000 Volt			2000 Volt			3000 Volt		
No.	Mfd.	NET	No.	Mfd.	NET	No.	Mfd.	NET
A7988	1	\$1.19	A7994	1	\$1.93	A7997	1	\$1.99
A7989	2	1.40	A7995	2	2.14	A7998	2	3.83
A7990	4	1.87	A7996	4	3.54			

CORNELL-DUBILIER

"TJU" SERIES FILTER CONDENSERS



Always a favorite with builders of transmitting equipment, these new "TJU" units represent increased value at no extra cost. Hermetically sealed in non-corrosive steel containers. Selected dielectric impregnated in Dykanol. Voltage ratings are conservative. Universal bracket supplied for upright or inverted mounting.

Cat. No.	Mfd.	Wkg. Volts	NET
A13555	1	600	\$2.06
A13556	2	600	2.50
A13557	4	600	3.23
A13558	1	1000	2.94
A13559	2	1000	3.67
A13560	4	1000	5.00
A13561	1	1500	2.65
A13562	2	1500	3.67
A13563	4	1500	5.00
A13564	1	2000	3.82
A13565	2	2000	5.29
A13566	4	2000	7.06
A13567	1	2500	4.70
A13568	2	2500	7.64
A13569	1	3000	7.06
A13570	2	3000	8.82

"TLA" SERIES

Especially designed for heavy-duty service in transmitter or power audio amplifier power supplies. Hermetically sealed in inverted type round aluminum containers; ideal for use where space is limited. Diameter of can is only 1 1/4". 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. Insulated washers supplied. **NOTE: WE CAN SUPPLY ALL C-D TRANSMITTING CONDENSERS NOT LISTED HERE, ON SPECIAL ORDER. Write for complete C-D catalog.**



Cat. No.	Mfd.	Volts	NET
A13575	2	600	\$1.62
A13576	3	600	1.91
A13577	4	600	2.20
A13578	1	1000	1.47
A13579	2	1000	1.91
A13580	1.5	1500	1.76
A13581	1	1500	1.91

FAMOUS GENERAL ELECTRIC PYRANOL CAPACITORS

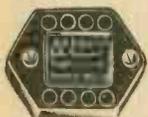
Attractive, durable transmitting condensers of the best quality. These condensers will give exceptional service and long life. Filled and treated with Pyranol, a non-flammable, non-explosive substance of unusual dielectric qualities. Hermetically sealed, with porcelain lead-out bushings. Equipped with mounting flanges for easy upright mounting.



No.	Model	Mfd.	Volts	NET
A5400	23F1	1	600	\$ 2.06
A5401	23F2	2	600	2.50
A5402	23F4	4	600	3.23
A5403	23F10	1	1000	2.20
A5404	23F11	2	1000	2.94
A5405	23F13	4	1000	3.67
A5406	23F20	1	1500	2.65
A5407	23F21	2	1500	3.67
A5408	23F23	4	1500	5.00
A5409	23F30	1	2000	3.23
A5410	23F31	2	2000	3.82
A5411	23F33	4	2000	5.29
A5412	23F39	1	2500	4.70
A5413	23F40	2	2500	7.64
A5414	23F41	4	2500	10.58

G. E. Pyranol Transmitting Capacitors are available in voltage ratings up to 5000 volts D. C. Write for complete listing.

MOLDED MICA CONDENSERS



Suitable for all voltage or R.F. bypass requirements. Highest quality, selected mica dielectric in molded bakelite case with screw terminals.

TYPE 1650-1000 VOLTS

Cat. No.	Cap.	NET EACH	Cat. No.	Cap.	NET
A13525	00005	35c	A13530	.001	35c
A13526	0001		A13531	.006	52c
A13527	00015		A13532	.01	82c
A13528	00025		A13533	.02	\$1.09
A13529	0005		A13534	.05	2.26

TYPE 1651-2500 VOLTS

A13535	00005	41c	A13539	.002	79c
A13536	00025		A13540	.006	\$1.03
A13537	0005		A13541	.01	1.65
A13538	.001	53c	A13542	.02	2.32

TYPE 1652-5000 VOLTS

A13543	00005	53c	A13547	.001	88c
A13544	0001		A13548	.002	\$ 3.32
A13545	00025	62c	A13549	.006	2.06
A13546	0005		A13550	.01	2.41

SANGAMO MICA TRANSMITTING CONDENSERS

Accepted by Amateurs everywhere for all types of transmitter and receiver circuits. Ideal for use as by-pass condensers in R.F. circuits, as coupling condensers, etc. Bakelite cases, finest ruby mica dielectric. Accurate to within 10%.

1000 V. DC TEST

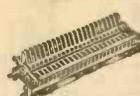
No.	Mfd.	NET	No.	Mfd.	NET
A7650	.00005	\$0.24	A7672	.00005	\$0.41
A7651	.0001	.24	A7673	.0001	.41
A7652	.00015	.24	A7674	.0002	.41
A7653	.0002	.24	A7675	.00025	.41
A7654	.00025	.24	A7676	.0005	.41
A7655	.0005	.24	A7677	.001	.53
A7656	.001	.29	A7678	.002	.79
A7657	.0015	.29	A7679	.004	.91
A7660	.002	.29	A7680	.005	1.03
A7661	.003	.35	A7681	.006	1.03
A7662	.004	.35	A7682	.008	1.32
A7663	.005	.41	A7683	.01	1.65
A7664	.006	.50			
A7665	.008	.59			
A7667	.01	.68			
A7668	.015	.73			
A7669	.02	1.09			
A7670	.025	1.35			
A7675	.03	1.47			
A7671	.05	2.26			
A7670 Resistor clips.					
Net. per pair....					

We can also supply 2500 and 5000 Volt Sangamo condensers with "dead" terminals on one side, suitable for panel mounting at no additional cost. Specify when ordering.

Transmitting Equipment

FAMOUS CARDWELL TRANSMITTING CONDENSERS

"X" LINE SINGLES



Incorporate every advanced feature in condenser design. Mycalex insulated. Accurately built. Rigid and vibration-proof. Units with .084 airgap or over have polished plates with rounded edges. Highest quality throughout.

Cat. No.	Type No.	Cap. Mmf.	Air Gap	NET
A13700	XT-220PS	220	.070*	\$2.70
A13701	XT-440PS	440	.070*	4.62
A13702	XP-90KS	90	.084*	2.70
A13703	XP-165KS	165	.084*	3.90
A13704	XP-290KS	290	.084*	5.70
A13705	XP-330KS	330	.084*	6.48
A13706	XE-240KS	240	.100*	6.48
A13708	XG-50KS	50	.171*	3.30
A13709	XG-110KS	110	.171*	5.82
A13710	XC-18XS	19	.200*	2.70
A13711	XC-40XS	40	.200*	3.90
A13712	XC-65XS	65	.200*	5.10
A13713	XC-100XS	100	.200*	6.30
A13714	XK-55KS	55	.230*	6.00

"X" LINE DUALS

Cat. No.	Type No.	Mmf. per Sec.	Air Gap	NET
A13715	XR-500PD	500	.030*	\$ 3.90
A13716	XT-80PD	80	.070*	3.30
A13717	XT-210PD	210	.070*	5.22
A13718	XP-90KD	95	.084*	4.50
A13719	XP-165KD	165	.084*	6.80
A13720	XP-325KD	325	.084*	13.20
A13721	XE-240KD	240	.100*	12.60
A13722	XG-50KD	50	.171*	6.42
A13723	XG-110KD	110	.171*	10.80
A13724	XC-40XD	40	.200*	7.80
A13725	XC-75XD	75	.200*	10.20
A13726	XD-160XD	160	.125*	11.40

AIRGAP VOLTAGES: 1000 V. for .030* gap; 3500 V. for .070* gap; 4000 V. for .084* gap; 4250 V. for .100* gap; 4750 V. for .125* gap; 5250 V. for .171* gap; 6000 V. for .200* gap; 6750 V. for .230* gap.



"T" LINE SINGLES

Accurately built, heavy-duty condensers for high-power transmitting purposes. Mycalex insulated.

With polished extra heavy plates (rounded edges for minimum loss and maximum peak voltage). 3/8" shafts, and built-in mounting feet.

Cat. No.	Type No.	Cap. Mmf.	Air Gap	NET
A13656	TJ-315US	315	.168"	\$19.20
A13661	TL-80US	80	.294"	13.20
A13663	TL-160US	160	.294"	18.00
A13665	TZ-40RS	40	.500"	14.40
A13666	TZ-80RS	80	.500"	19.20

"T" LINE DUALS

Cat. No.	Type No.	Mmf. per Sec.	Air Gap	NET
A13673	TL-50UD	45	.294"	\$15.00
A13674	TL-70UD	70	.294"	17.40
A13675	TL-100UD	94	.294"	20.70
A13677	TKD-100UD	110	.350"	26.40
A13678	TZ-40RD	40	.500"	21.60

AIRGAP VOLTAGES: 5500 V. for .168" gap; 6000 V. for .200" gap; 8000 V. for .294" gap; 9000 V. for .350" gap; 12,500 V. for .500" gap.

FLEXIBLE COUPLINGS



TYPE A. Small but efficient coupling. Fits 3/4" shafts. No back-lash. Isolantite insulated. 1 1/2" diameter.

A13683. NET **36.**

TYPE C. Heavy-duty unit. 15,000 V. Peak. Aismag insulated. 3/4" shafts; removable bushings fit 1/2" shafts. 2 1/2" dia.

A13685. NET **\$1.68**

TYPE E. Similar to Type C but smaller. 1 1/2" diameter.

A13687. NET **90.**

TYPE ARL ROTOR LOCK



For use with any condenser having 1/4" shaft where dial or knob adjustment from front of panel is not required. Permits locking condensers rigidly in position after making circuit adjustments. Positive and dependable.

A13698. NET **36.**

MIDWAY SINGLES



Sturdily built, compact, variable condensers for receivers and low-power X'mitters. Aluminum plates and frames are carefully machined and finished. Mycalex insulation.

Double bearings assure perfect alignment. Shaft, 1/4x1". Mounting space, 3 1/2x3/4".

Cat. No.	Type No.	Cap. Mmf.	Air Gap	NET
A13600	MR-25BS	25	.030*	\$1.62
A13601	MR-50BS	50	.030*	1.68
A13602	MR-70BS	70	.030*	1.77
A13603	MR-105BS	105	.030*	1.83
A13604	MR-150BS	150	.030*	1.89
A13605	MR-200BS	260	.030*	1.98
A13606	MR-365BS	365	.030*	2.28
A13607	MO-165BS	165	.050*	1.98
A13608	MT-20GS	20	.070*	1.95
A13609	MT-35GS	35	.070*	2.10
A13610	MT-50GS	50	.070*	2.14
A13611	MT-70GS	50	.070*	2.67
A13612	MT-100GS	100	.070*	2.94
A13613	MT-150GS	150	.070*	3.60
A13614	MG-35S	35	.171*	3.60

AIRGAP VOLTAGES: 1000 V. for .030* gap; 1500 V. for .050* gap; 3000 V. for .070* gap; 5000 V. for .171* gap.

MIDWAY DUALS

Similar to above. For receivers and X'mitters.

Cat. No.	Type No.	Mmf. per Sec.	Air Gap	NET
A13615	MR-25BD	25	.030*	\$2.61
A13616	MR-50BD	50	.030*	2.82
A13617	MR-70BD	70	.030*	2.94
A13618	MR-150BD	150	.030*	3.18
A13619	MR-100BD	100	.030*	3.06
A13620	MR-260BD	260	.030*	3.30
A13621*	MT-20GD	20	.070*	3.33
A13622*	MT-35GD	35	.070*	3.60
A13623*	MT-50GD	50	.070*	3.81
A13624*	MT-70GD	70	.070*	4.00
A13625*	MT-100GD	100	.070*	4.80
A13626*	MO-180BD	180	.050*	4.80

*Rounded Plate Edges.

AIRGAP VOLTAGES: 1000 V. for .030* gap; 1500 V. for .050* gap; 3000 V. for .070* gap.



DISC TYPE NEUTRALIZING CONDENSERS

TYPE ADN. For low capacity tubes such as 808, 834, RK-30, T-55, etc. With 1/2" Aismag pillars. Cap. range: .5-4 Mmf. Size: 4 1/4x2 1/2".

A13681. NET **\$1.80**

TYPE BDN. Cap. range: 2-12 Mmf. For such tubes as 806, 833, RK-38, T-200, etc. With 3/4" Aismag pillars. Similar to Type ADN but heavier construction. 4 1/4x4 1/2".

A13682. NET **\$3.00**

HIGH FREQUENCY NEUTRALIZING CONDENSERS

Especially designed for new low capacity tubes. Mycalex insulated. Have bracket for panel mounting; slotted shaft for screwdriver adjustment and locking device on rotor. Heavy buffed plates with rounded edges.

Cat. No.	Type No.	Cap. Mmf.	Air Gap	NET
A13729	NA-6NS	6	.218"	\$2.16
A13730	NA-10NS	11	.218"	2.70
A13731	NA-16NS	16	.218"	3.00
A13732	NA-12ND*	12	.218"	9.00

*Ganged neutralizer with insulated coupling; data given is per section.



TYPE "M" BRACKET

Originally designed for use in mounting the "N" type U.H.F. condensers, but also suited for use with all Midway types. For rigid mounting to chassis.

A13745. NET EACH **12.**

We can supply the complete line of Cardwell condensers for receiving or transmitting requirements. If the particular unit you require is not listed on this page, tell us the Cardwell type number or give us specifications, and we shall be glad to quote prices promptly for units desired.

TRIM-AIR MIDGETS



For all uses where high-quality midgets are required. Rigid, Isolantite-mounted assembly assures greatest stability and minimum losses. Universal mounting facilities. Can be used as midget tuning condenser or for low power neutralization. Can easily be ganged.

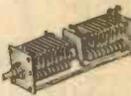
Cat. No.	Type No.	Cap. Mmf.	Air Gap	NET
A13630	ZR-10AS	10	.030*	\$0.75
A13631	ZR-15AS	15	.030*	.75
A13632	ZR-25AS	25	.030*	.84
A13633	ZR-35AS	35	.030*	.90
A13634	ZR-50AS	50	.030*	1.06
A13635	ZU-75AS	75	.020*	1.06
A13636	ZU-100AS	100	.020*	1.06
A13637	ZU-140AS*	140	.020*	1.89
A13638	ZT-30AS	30	.070*	1.11
A13639	ZS-4SS	4	.140"	1.11
A13640	ZT-15AS	15	.070*	.93
A13585	ZV-5TSt	5	.061"	.75
A13586	ZT-10AS	15	.070*	.87
A13587	ZT-30AS	30	.070*	1.87
A13588	ZS-7SS	7	.140"	1.26

*Double-bearing; two end plates. †2 segment stator for 5 meter circuits.

A13742. Mounting Bracket. NET **6c**
A13743. Mounting Posts, per pair. NET **8c**
A13744. Extra Extension Posts. NET **4c**

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.



Cat. No.	Type No.	Mmf. per Section	Air Gap	NET
A13641	EU-75AD	75	.020"	\$1.98
A13642	EU-100AD	100	.020"	2.04
A13643	EU-140AD	140	.020"	3.60
A13644	ER-10AD	10	.030"	1.56
A13645	ER-15AD	15	.030"	1.56
A13646	ER-25AD	25	.030"	1.62
A13647	ER-35AD	35	.030"	1.74
A13648	ER-50AD	50	.030"	1.86
A13649	ET-15AD	15	.070"	1.80
A13654	ET-15ADI	Insul. Coup.		2.10
A13650	ET-30AD	30	.070"	2.16
A13651	ET-30ADI	Insul. Coup.		2.46
A13652	ES-4SD	140*		2.16
A13653	ES-4SDI	Insul. Coup.		2.46
A13655	ES-7SDI	Insul. Coup.		2.70

U.H.F. DUALS

Ultra-high-frequency, low-loss dual condensers for 5 and 10 meter X-mitters and for use in diathermy machines.



Cat. No.	Type No.	Cap. Mmf.	Air Gap	NET
A13735	NP-35ND	35	.084"	\$3.60
A13736	NP-35DD	35	.084"	3.21
A13739	NT-50GD	50	.070"	3.60

*Unbuffed.

TYPE "J" PLUG-IN CONDENSERS

Plug-in type fixed capacity condensers for use in boosting tank circuit capacity for operation on low-frequency bands. Ideal for tank capacity loading in 10 and 20 meter rigs for operation on 80 and 160 meters. Type JR-750-OS especially suited for loading capacity in grid circuit of high-stability electron coupled oscillators. All fit jack base listed below.



No.	Type No.	Cap.	Gap.	NET
A13691	JCO-50-OS	50	.250"	\$3.30
A13692	JCO-25-OS	25	.250"	2.40
A13693	JD-80-OS	80	.125"	3.30
A13694	JD-50-OS	50	.125"	2.40
A13695	JD-25-OS	25	.125"	1.68
A13696	JR-750-OS	750	.030"	5.28

JACK BASE FOR "J" UNITS

For mounting all "J" units listed directly above. Aismag 196 base 2 1/2" square with four jacks for quick insertion or removal of "J" condensers. With mounting posts and hardware.

A13697. NET **60c.**

Transmitting Equipment

FAMOUS E. F. JOHNSON TRANSMITTING PRODUCTS



STANDOFF INSULATORS

Made of a superior grade of low absorption high glaze porcelain. Heavy breakage-resistant bases. All hardware is of nickel-plated brass. Types 65, 66 and 67 have cadmium steel bases. Finish is white glaze. "J" indicates jack type.

Cat. No.	Type	Fig.	Body Hgt.	Hard-ware	NET
A13750	20	A	1 3/8"	10-32	8c
A13751	20	B	1 3/8"	7-32	10c
A13752	22	A	1 1/2"	8-32	5 1/2c
A13753	22J	B	1"	7-4J	7 1/2c
A13754	24	A	3/4"	6-32	4 1/2c
A13755	60	C	2 1/2"	1/4-20	38c
A13756	62	D	4 1/2"	1/4-20	21c
A13757	65	D	1 3/8"	10-32	12c
A13758	65J	D	1 3/8"	7-4J	15c
A13759	66	D	2 1/2"	1/4-20	21c
A13760	66J	D	2 1/2"	7-6J	29c
A13761	67	D	4 1/2"	1/4-20	32c
A13762	67J	D	4 1/2"	7-6J	41c

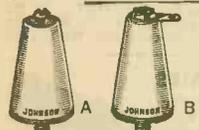


LEAD-IN BUSHINGS

Have many applications in transmitter and antenna installations. Type 55 is Aisimag 196; others are white glaze porcelain. Types 50, 51, 52 and 55 have nickeled brass rod and nuts.

Cat. No.	Type	Fig.	Hgt.	Dia.	Panel Hole	NET
A13793	50	D	1 1/2"	3/4"	1 1/2"	12c
A13794	51	D	1 3/8"	1 1/4"	1 1/2"	21c
A13795	52	D	1 1/2"	1 3/4"	1 1/2"	29c
A13796	53	B	1 3/4"	2 1/2"	1 1/2"	18c
A13797	54	A	4"	3 1/2"	2 3/4"	41c
A13798	55	C	1/4"	3/4"	1/2"	18c

No.		Type		For Bushing		NET
A13800		90		Type 53		15c
A13801		91		Type 54		29c



PORCELAIN CONES

Made of high-grade, white glaze, low absorption porcelain. Furnished with machine screws, top and bottom, and with cushion washer. Deeply threaded for maximum strength. Require only one hole for mounting. Of exceptional quality.

bottom, and with cushion washer. Deeply threaded for maximum strength. Require only one hole for mounting. Of exceptional quality.

Cat. No.	Type	Fig.	Body Hgt.	Thread	NET
A13765	600	A	5/8"	6-32	7c
A13766	601	A	1"	8-32	8 1/2c
A13767	601J	B	1"	7-4J	11 1/2c
A13768	602	A	1 1/2"	8-32	11c
A13769	602J	B	1 1/2"	7-4J	14c
A13770	603	A	2"	10-32	15c
A13771	603J	B	2"	7-4J	18c
A13772	604	A	3"	10-32	21c
A13773	604J	B	3"	7-6J	29c

ALSIMAG 196 CONES

Similar to porcelain cones above but of Aisimag 196 for use at high frequencies. With machine screw top and bottom and cork washer.

Cat. No.	Type	Fig.	Body Hgt.	Thread	NET
A13775	500	A	5/8"	6-32	12c
A13776	501	A	1"	8-32	18c
A13777	502	A	1 1/2"	8-32	24c
A13778	503	A	2"	10-32	29c
A13779	504	A	3"	10-32	47c



THRU-PANEL INSULATORS

Have high mechanical strength with long leakage paths. Made of white glaze porcelain. Flat mounting surface and cushion washers.

Cat. No.	Type	Fig.	Top Hgt.	Panel Hole	Hard-ware	NET
A13780	40	A	1 1/4"	1/2"	10-32	15c
A13781	40J	B	1 1/4"	7/16"	7-4J	18c
A13782	42	A	1 3/4"	7/16"	10-32	12c
A13783	42J	B	7/8"	7/16"	7-4J	15c
A13784	44	A	3/4"	3/16"	6-32	10c
A13785	45	C	1 1/2"	3/16"	10-32	21c
A13786	45J	C	1 1/2"	7/16"	7-4J	24c
A13787	4576J	C	1 1/2"	7/16"	7-6J	32c
A13788	46	A	2 1/2"	3/16"	1/4-20	38c
A13789	46J	A	2 1/2"	7/16"	7-6J	47c
A13790	47	A	4 1/2"	1 1/8"	1/4-20	56c
A13791	47J	A	4 1/2"	1 1/8"	7-6J	65c

THREADED BRASS ROD

For use with standoff insulators, through-panel and lead-in bushings. Nickeled; thread 1/4-20.

A13802.	Type 240.	8" long.	NET.. 15c
A13803.	Type 241.	10" long.	NET.. 18c
A13804.	Type 242.	15" long.	NET.. 24c

ANTENNA INSULATORS

High-grade, wet process, white glaze porcelain. Low moisture absorption; long leakage path. 1" diameter; famous for quality.

A13805.	Type 107.	7" long.	NET.. 41c
A13806.	Type 112.	7" long.	NET.. 53c
A13807.	Type 120.	20" long.	NET.. 88c

STRAIN INSULATORS

White glaze low absorption porcelain. Type 32 is for use in light guy wires or receiving antennas. Type 38 is especially designed for R.F. use.

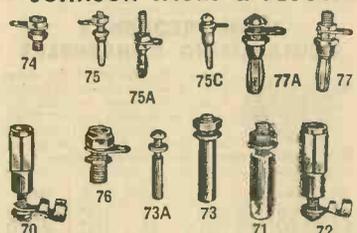
Cat. No.	Type	Fig.	Lgth.	EACH	10 for
A13808	32	A	1 1/2"	4 1/2c	41c
A13809	38	B	1 1/2"	9c	85c

FEEDER SPREADERS

For use in all types of feeder lines, either transposed or non-transposed. Made of low absorption white glaze porcelain.

Cat. No.	Type	Fig.	Length	NET
A13810	31	A	2"	9c
A13811	132	A	4"	9c
A13812	134	A	4"	12c
A13813	136	A	6"	15c

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.

Cat. No.	Type	Length	Thread	NET
A13815	74	1 1/4"	1/4-20	4c
A13816	75	3/4"	6-32	4 1/2c
A13817	75A	3/4"	6-32	4 1/2c
A13818	75C	1"	6-32	5c
A13819	76	1 1/4"	3/4-24	15c
A13821	77	1 1/4"	1/4-28	12c
A13822	77A	1 1/4"	10-32	15c
A13823	70	1 1/2"	1/4-20	21c
A13824	71	1 1/2"	1/4-20	21c
A13827	72	1 1/2"	10-32	15c
A13838	73	1"	10-32	4 1/2c
A13839	73A	1"	10-32	4 1/2c

TYPE "N" NEUTRALIZING CONDENSERS

Developed for use with low C tubes. Plates are polished aluminum cylinders with high maximum to minimum capacity ratio. Have micro-meter adjustment; airgap remains constant. Aisimag 196 insulation. Mount vertically or horizontally.

Cat. No.	Type	Capacity		Air Gap	NET
		Max.	Min.		
A13840	N125	12	2.5	.125"	52.65
A13841	N250	12	3	.250"	2.88
A13842	N375	12.75	3.5	.375"	3.53

"G" CONDENSERS

Designed to provide lowest possible minimum capacity, these condensers are suitable for use with most low C tubes. Plates are polished aluminum with buffed and rounded edges. End plate is of Aisimag 196. With locking device.

Cat. No.	Type	Capacity		Air Gap	NET
		Max.	Min.		
A13843	50G20	52	5	.045"	51.65
A13844	25G20	27	3.5	.045"	1.47
A13845	23G45	23	6.3	.125"	1.65
A13846	13G45	13	4.3	.125"	1.47
A13847	8G45	7.5	3	.125"	1.34
A13848	12G70	12	3.3	.225"	2.20
A13849	6G70	5.5	3	.225"	1.76

SHAFT COUPLINGS

Flexible insulated shaft couplings with phosphor-bronze springs and absolute freedom from backlash. Insulated with Aisimag 196. Maximum airgap to insure protection from flashover.

Cat. No.	Type	Shaft	Diam.	NET
A13825	250	1/4"x1/4"	1 3/8"	47c
A13826	251A	1/4"x1/4"	2 1/4"	82c
A13827	251B	1/4"x3/8"	2 1/4"	82c
A13828	251	3/8"x3/8"	2 1/4"	82c

Solid shaft couplings for use where extension shaft is necessary without flexibility. Type 252 is insulated with Aisimag 196; leakage path 1 1/4". Type 258 is cadmium-plated.

A13830.	Type 252.	Overall length 1 1/2".	1 1/8" diam. For 1/4" shaft.	44c.
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A13831. Type 258. Compression type coupling for 1/4" shaft. NET... 9c.

FLEXIBLE SHAFTS

Non-rusting phosphor-bronze flexible shafts with 1/4" hubs. Permit control of condensers, etc., offset or at angles up to 90 degrees. Hubs will not loosen.

A13832.	Type 253.	3" length.	NET.. 21c
A13833.	Type 254.	6" length.	NET.. 29c

PANEL BEARING & EXTENSION

For use with rigid or flexible shaft couplings. Fit panels up to 3/4" thick. Type 255 is panel bushing only. Of cadmium-plated brass.

Cat. No.	Type	Shaft Length	NET
A13834	255		9c
A13835	256	3"	18c
A13836	257	6"	24c

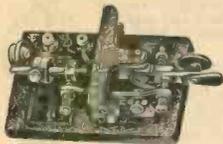
JOHNSON SOCKETS

A6140. UX BASE. For type 10, or similar UX base tubes. Porcelain insulation; heavy spring contacts. List, 85c.

NET... 50c.
A6141. 50 Watt socket. Porcelain base with heavy dual phosphor bronze contact springs. Cadmium plated. List, \$1.25. NET... 73c.

Transmitting Equipment

FAMOUS "MAC-KEYS"



DELUXE MAC-KEY

The finest of the Mac-Keys. Huge cast base with black marble finish. Metal parts chrome-finished. Has patented dot stabilizer; $\frac{3}{8}$ " silver contacts; circuit closing switch. Built for smooth, non-tiring operation at any speed.

A7973. NET. **\$9.50**

STANDARD MAC-KEY

Heavy cast base anchors key firmly to table. Contact points perfectly adjustable. Vibrationless and stutler-proof. Non-tiring.

A7968. NET. **\$7.50**

MAC STRAIGHT KEY

A well-balanced, sturdily constructed straight key for use in all types of radio or wire transmission circuits. Perfectly balanced arm with heavy cast base makes sending easy and tireless. Will not slide around.

A7969. NET. **\$1.50**



THE MAC OSCILLATOR

An efficient audio oscillator for learning code. In bakelite case. Tone adjustable at 600, 800, or 1000 cycles. Ideal for beginners who find it hard to learn to receive code signals over the air. Also useful as instruction equipment for schools. Supplied with 2-6C5G and 1 Ballast tube. Wt., 2 lbs. For 110V., A.C. or D.C.

A7970. NET. **\$5.95**

MAC HUMMER

A simple but entirely efficient mechanical audio oscillator, designed for self-instruction in the Morse and Telegraph codes. Will produce a 1000 cycle note as clear as a bell. Requires a $\frac{1}{2}$ volt "C" battery. Will reproduce up to 100 words per minute.

A7971. NET. **\$1.50**

MAC PRACTICE SET



A combination of A7969 and A7971 "Straight Key" and mechanical "Hummer" on one huge base. Excellent for beginners learning the code. A useful practice set.

A7972. NET. **\$2.95**

CODE PRACTICE SET



A Signal key and adjustable buzzer on a wood base. Produces high-pitched code signals. An excellent unit for classes in code instruction. A fine value.

A7703. NET. **\$2.00**

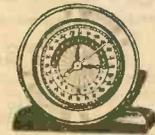


NAVY KEY KNOBS

Molded of black insuloid. For easy keying. $\frac{1}{8}$ " high; $1\frac{1}{16}$ " dia. of lower skirt. 8-32 screw. Relieves finger fatigue.

A5730. NET. **9c.**

GORDON DX WORLD CLOCK



A modernistically designed electric clock especially developed for the Amateur and Short-Wave DX fan. Has multiple colored dials which tell the time accurately in GMT and Standard time in any part of the world. Self-starting genuine Waltham movement for 110 V., 60 cycles.

A10133. NET. **\$8.82**

SPEED-X KEYS

NO. 300

Well-made low-cost practice key for beginners. Base is molded bakelite, walnut finish. All machine parts finished in nickel; contacts are coin silver. Easy action arm with tension and contact space adjustments.

A7960. NET. **88c.**



NO. 310 STANDARD

Skeleton frame type. Black wrinkle finish base; other parts nickel plated. $\frac{1}{4}$ " pure silver contacts. Dual adjustments for tension and lever action.

A7963. NET. **\$1.47**



NO. 301 AMATEUR'S KEY

Sturdily constructed standard key with molded bakelite base. All metal parts nickel plated. Pigtail connections to arm; no current through bearings. Contacts are of coin silver.

A7961. NET. **\$1.26**



NO. 320 HEAVY-DUTY KEY

Has $\frac{1}{4}$ inch solid coin silver contacts. Well insulated. Black base. All other parts are attractively chrome plated.

A7962. NET. **\$1.91**

501 HI-SPEED AUTOMATIC

A professional key fully adjustable from 8 words per minute to as high as desired. Will hold adjustment at all speeds. $\frac{1}{4}$ " coin silver contacts. Has adjustable double finger-paddles. Equipped with cord and shorting switch for use in land wire service.

A7964. NET. **\$10.29**



NO. 515 AMATEUR KEY

A durable, heavy-duty Speed Key. Statuary bronze moving parts. Base and casting are covered with brown wrinkle to perfectly match other parts. Other features same as Hi-Speed key above. Less cord and plug; does not have shorting switch.

A7967. NET. **\$5.44**

SPEED-X BUZZER

A professional constant frequency buzzer. Will hold its adjustment. Resistance, 2 ohms. Works on 2 dry cells, or 1 "C" battery.

A7966. NET. **73c.**



RALSTON CODE RECORDS

A complete Radio Code instruction course on three double-sided 10" phonograph records. Makes it easy for the beginner to learn the Radio Code; helps the Amateur to increase his code receiving speed. Play on any phonograph and regulate the turntable to vary the transmitted code speed to fit your ability to copy.

A9992. Complete Record Set with Instructions. NET. **\$7.50**



WORLD TIME CHART

& S. W. STATION LIST

Indicates time in 122 countries instantly. Lists 111 Short Wave stations. Valuable for the Amateur and SW listener.

A5235. NET. **10c.**



JAMES MILLEN GEAR

Watch for the new line of Amateur Equipment produced by James Millen Mfg. Co. of Malden, Mass., and designed to incorporate the latest in engineering. Send for copy of 12-page Millen Catalog, or order Millen gear from ALLIED direct from Millen ads in QST.



STACO ANTENNA RELAYS

Radio-frequency type antenna change-over relays for use in any antenna system for receiving or transmitting purposes. Will handle 4 A through pure silver contacts. New floating armature with ball-bearing pivot. Core of finest Swedish iron. All DPDT types, $3\frac{1}{4}$ " x $3\frac{1}{2}$ ". ABA and ABD have high-frequency molded insulation and base; AMA and AMD have Mycalex insulation and base. No chatter in AC types.



A13855. ABA-110 V. AC.
A13856. ABD-5 V. DC.
NET EACH. **\$2.55**

A13857. AMA-110 V. AC.
A13858. AMD-6 V. DC.
NET EACH. **\$3.45**

BASSETT CONCENTRIC LINE

The simplest and easiest of all transmission lines to install. Completely weatherproof; extremely flexible. Attenuation only .0008 DB/F/MC in any kind of weather. 68 ohm cable for doublets, stubs, etc., 34 ohm cable for verticals.



A2486. BCF-64-200. Per foot. NET. 5c
A2485. BCF-13-1000. Per foot. NET. 7c
A2483. BCF-64-500. Per foot. NET. 12c
A2474. BCF-28-1000. Per foot. NET. 11c
A2484. BCF-34-1000. Per foot. NET. 13c
A2482. BCF-64-1000. Per foot. NET. 17c

Stock lengths of Concentric line with weatherproof molded rubber end seal attached.

Type	50 Ft.	NET	75 Ft.	NET
BCF-64-200	A13887	\$ 4.00	A13892	\$ 5.25
BCF-13-1000	A13888	5.00	A13893	6.75
BCF-64-500	A13890	7.50	A13896	10.50
BCF-28-1000	A13886	7.00	A13894	9.75
BCF-34-1000	A13889	8.00	A13895	11.25
BCF-64-1000	A13891	10.00	A13897	14.25

A13885. ANTENNA RELAY. Mycalex insulated. Can be inserted at any point in any type of Bassett Concentric line for switching antenna to receive or transmit. For 110 Volt 60 Cycles A.C. NET. **\$5.75**

NOTE: We can supply on special order any desired length of any Bassett line with molded rubber end seal at \$1.50 net extra.

HYTRON TUBES

Type HY-25. Plate dissipation, 25 W. Plate voltage, 750 V. Filament, 7.5 V. at 2.25 A. General purpose triode suitable for Oscillator, R.F. Amplifier, or Class B Modulator.
A1240. NET. **\$1.45**

Type HY-40. Plate dissipation, 40 W. Plate voltage, 1000 V. Filament 7.5 V. at 2.25 A. Triode for use as Oscillator, R.F. Amplifier or Class B Modulator.
A1241. NET. **\$2.75**

Type HY-40Z. Similar to HY-40 but Zero bias triode. For use as R.F. Amplifier or Class B Modulator.
A1235. NET. **\$2.75**

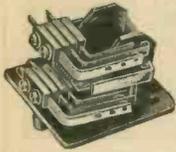
Type HY-615. Ultra-high-frequency type triode for operation up to 300 MC as Oscillator, R.F. Amplifier, or Detector. Heater, 6.3 V. at .15 A. Plate, 300 V. at 20 MA. max. Plate and grid leads at top.
A1239. NET. **\$2.00**



Type	No.	Plate Diss.	NET
HY-51A	A1242	65 W.	\$3.95
HY-51B	A1243	65 W.	3.95
HY-51Z	A1237	65 W.	3.95
HY-60	A1245	15 W.	2.50
HY-61	A1246	25 W.	3.00
6L6GX	A1238	25 W.	1.25
866 Jr.	A1247	Rectifier	1.05
866	A1236	Rectifier	1.50

Transmitting Equipment

GUARDIAN RELAYS



MODEL B-100

For use in break-in circuits. D. P. D. T. type. Will provide rapid switching from receiving to transmitting. Heavy magnets and springs for clean-speed break. Heavy silver contacts. For 110 volt A.C. **\$4.41**

A7570. NET
MODEL K100. S.P.S.T. type. Pure silver contacts break clean. Operates from 5 to 16 V. A.C. or 1 1/2 to 4 V. D.C. source. **\$3.23**

A7571. NET
MODEL R100. For R.F. circuits up to 1 KW and 14 MC. Alsimag 196 insulated. S.P.S.T. type. For 110 V. 60 cycles. **\$1.62**

A7572. NET
MODEL R-100-C. Same as R-100 above, but S.P.D.T. type. **\$1.94**

A7573. NET
MODEL L-250. Overload relay for use in plate current circuits. Opens primary circuit if 250 M.A. capacity is exceeded. Has push-button reset feature. **\$4.41**

A7574. NET
MODEL L-500. Same as L-250 but maximum current is 500 M.A. before primary circuit is opened. Push-button reset. **\$4.41**

A7575. NET
MODEL L-750. High power type overload relay. Opens primary circuit when maximum drain of 750 M.A. is reached. **\$4.41**

A7576. NET
MODEL X-100. Adjustable type overload relay. Can be set to open primary circuit at any current load from 150 M.A. up to 3.5 Amperes. Panel type push-button reset. **\$5.88**

A7577. NET
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 R.F. circuits up to 30 MC. D.P.D.T. type. For 110 V. 50-60 cycles. **\$3.50**

A7578. NET
MODEL A-100-C. Same as A-100 above but S.P.D.T. type. **\$1.94**

A7579. NET
MODEL U-100. Sensitive, adjustable type underload relay. Dust-proof housing; quick adjustment of drop-out value. Adjustable from 100 to 200 M.A. Will break primary power supply delivering up to 500 V., affording complete protection for Class B modulator stage. **\$5.00**

A7580. NET
MODEL U-200. Same as U-100 above, but adjustable over a range of 200 to 400 M.A. Highest quality construction. **\$5.00**

A7581. NET
 Send for complete descriptive literature.

DUNCO RELAYS



Small, efficient relays for use in all types of remote control circuits. Isolated contacts provide suitable breakdown gap for use at high voltages. Exceptionally fast action; will follow semi-automatic keying without splutter or break. Low resistance silver contacts.

A7550. Model RA-1. 2.5 volt 60 cycle coil. May be used as plate circuit relay in exciters and buffers, for keying, primary circuits, etc.

A7551. Model RA-3. 6.3 volt 60 cycle coil. Also suitable for all purposes but especially adapted to units using 6.3 volt tubes. May be operated from tube filament supply.

A7552. Model RD-1. 5 to 6 volt D.C. coil. For use in all types of battery-powered mobile or portable equipment. **\$2.00 NET EACH**



GORDON R. F. RELAY

For antenna change-over, multi-band tank switching, or power supply control circuits. Husky 3/4" self-cleaning silver contacts with 1/2" spacing; handles 1 KW easily. Solenoid type with instant action. All RF parts insulated with Alsimag 196. D.P.D.T. type; no hum or chatter. Operates from 110 V. 50-60 cycle A.C. Shpg. wt. 4 lbs.

A2890. NET **\$8.82**



TRIPLET THERMO-COUPLE AMMETERS



For R.F. use. Especially designed for high frequency operation accurate to 2%. Model 341 has internal couple; Model 346 has external thermo-couple. Molded bakelite cases; flange mounting type. Model 346 case is 3 1/2" x 2 1/8", mounts in 2 1/8" hole. Model 341 is 3 1/2" in diam., mounts in 2 1/4" hole. (Voltmeters and Milliammeters to match are listed on page 37.)

Amps.	341	NET EACH	346	NET EACH
0-1	A8890	\$4.41	A8800	\$6.53
0-1.5	A8891		A8801	
0-2.5	A8892		A8802	
0-5	A8893		A8803	

NEW TRIPLETT MODEL 1696 MODULATION MONITOR



Helps comply with FCC regs. and indicates greatest possible efficiency in carrier power. Incorporates a carrier level meter and a modulation percentage meter calibrated from 40% to 120%. Has neon peak indicator and polarity switch to read both positive and negative peaks. Uses vacuum tube rectification with self-contained power supply and carrier level adjustment. Couples inductively to the antenna circuit. For 110 V. 60 C. Size, 14 1/2" x 7 1/2" x 4 1/2". Shpg. wt., 21 lbs.

A9971. Table Model in Metal Case. NET \$32.24

Terms: \$4.83 down, \$4.84 mo. for 6 mos.

A9972. Rack Panel Model with 10 1/2" x 17" black wrinkle steel panel. NET \$33.00

Terms: \$4.95 down, \$4.96 mo. for 6 mos.

TRIPLETT AMATEUR TYPE WATTMETER

Provides direct reading of power input to final amplifier stage in transmitter in DC watts input. A real necessity in rigs running over 900 Watts input. Dynamometer type with external multipliers. 3 1/2"



No.	Watts	Volts	M.A.	NET
A9120	0-250	1000	250	\$12.25
A9121	0-500	1500	350	17.74
A9122	0-750	2000	350	13.72
A9123	0-1000	3000	350	16.66
A9124	0-1000	2500	400	16.01

CENTRALAB SWITCHES

New transmitter switches with Isolantite insulation for circuit stability and high efficiency. With bar-knob. Ideal as crystal selector, interstage inductance switch, antenna coupling switch, etc. All have four positions, 90° apart, and adjustable stop. For any circuit up to 100 watts at potentials up to 1000 V. D.C.

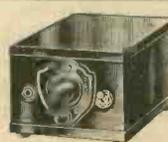


No.	Gangs	Poles	Positions	NET
A1990	1	1	4	\$1.00
A1991	2	2	4	1.59
A1992	3	3	4	2.29
A1993	4	4	4	2.88
A1994	5	5	4	3.59

A1995. Special Dial Plate. Type K-162. For any of the above switches. NET.....12c

LISTENING MONITOR

For Amateur station monitoring, checking quality of emitted signals, or phone carrier, or for frequency drift check. (Not a receiver.) Furnished complete with coils for 20, 40 and 80 meter amateur bands. In rugged steel case, 5x7x10". Requires 1.99 tube, 1-3 V. "C" and 1-22 1/2 V. "B" battery (not supplied). **\$3.95**



EIMAC TUBES

Designed for heavy-duty service and long life. Plates and grids of tantalum; envelopes of hard No-nex glass.



TYPE 35T. A general-purpose triode ideally suited for use as oscillator, buffer, or frequency multiplier. Fil., 5 V. at 4 A. Plate, 500 to 2000 V. Max. plate dissipation, 70 W. Max. Class C power output, 225 W. per tube. **\$6.00**

TYPE 75T. Low-C, low voltage tube with all typical Eimac features, plus heat-shielded plate lead. Fil., 5 V. at 6.5 A. Plate, 1500 V. at 175 M.A. max. Class C power output, 200 W.

A1128. NET \$9.00

TYPE 100TL. A medium-power high-mu. triode for use at any frequency up to 40 MC. Fil., 5 V. at 6.5 A. Plate, 1000 V. to 3000 V. Max. power Class C, 300 W. **\$13.50**

A1131. NET \$13.50

TYPE 100TH. General-purpose triode. Same as 100TL, but requires less driving power and lower bias. For diathermy or h.f. **\$13.50**

A1132. NET \$24.50

TYPE 250TL. Plate dissipation 250 watts. Class C output up to 750 W. **\$24.50**

A1133. NET \$24.50

TYPE 250TH. Same as 250TL, but requires less driving power and lower bias. **\$24.50**

A1134. NET \$10.00

TYPE KY21. A mercury vapor rectifier with a control grid for keying. **\$10.00**

A1129. NET \$10.00

SPECIAL TUBE CONNECTORS

Special air-cooled type connectors for plate and grid leads of Eimac and HK tubes. Type R-62 fits grid of 75T, 100T and 250T and plate of 35T, 75T, HK-54, and HK-24. R-355 fits plate cap of 100T, 807, etc.



A1136. Type R-62. EACH \$25.

A1139. Type R-355. EACH \$40c

EIMAC VACUUM TANK CONDENSERS

A new type of vacuum sealed tank condenser for any power from 50 W. to 1 KW. Provides optimum circuit efficiency at any frequency, with peak flashover of 32,000 V. Compact in size; only 6 1/2" long, 2 1/2" diam. Use in any single-ended or push-pull amplifier for CW or 'Phone. End caps fit standard 60 A. fuse clips.



A1209. VC6. 6 Mmf. For high L/C ratio circuits on 7, 14, and 28 MC. NET \$7.50

A1210. VC12. 12 Mmf. NET. 8.50

A1211. VC25. 25 Mmf. NET. 10.50

A1212. VC50. 50 Mmf. NET. 12.50

INSULATED GRID CAPS

A6331. Standard size for receiving tubes. Black insulation. **NET EACH \$6.**



A6333. Large size for transmitting tubes such as 866, etc. **NET EACH \$11.**

KNIGHT R.F. CHOKES

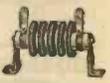
MIDGET TYPE

Very popular with the Amateur and Experimenter. Inductance, 2 1/2 M. H.; D.C. resistance 16 ohms. Capacity, 125 M.A. Universal type winding in five sections on ceramic core. **A2163. 10 For \$1.15. EACH \$13.**



HEAVY-DUTY TYPES

A2164. 2 1/2 MH at 1000 turns. Three section universal type wound. Res., 5 ohms. With mounting brackets. **NET \$88.**



A2165. 5 MH at 500 M.A. Five universal-wound sections on ceramic core. Res., 12 ohms. **NET \$73.**

A2166. 2.8 MH at 1000 M.A. Five tapered size universal-wound sections. Ceramic core. Res., 5 ohms. **NET \$88.**

A2167. 5.3 MH at 500 M.A. Same as A2166 but resistance is 12.5 ohms. **NET \$88.**

Transmitting Equipment

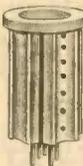


TRANSMITTING COIL FORMS

An ideal inductance form for transmitters and for numerous other uses. Bakelite body. 2 1/4" diameter, 3 1/2" long, with molded finger grip rim. Winding space, 3 3/4". Ribs extending 1/4" insure low-loss air-core winding. Grooved forms are threaded 12 turns per inch.

Plain Forms		Grooved Forms	
No.	Prongs EACH	No.	Prongs EACH
A2650	4	A2661	4
A2651	5	A2662	5
A2652	6	A2663	6

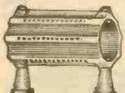
38c **53c**



KNIGHT CERAMIC COIL FORMS

Plug-in coil forms of low-loss ceramic for use in receivers or low-power stages of transmitters. Ribbed type with side slot and holes for easy winding. 1 1/2" diameter.

A2655	4 Prong.	NET	32c
A2656	5 Prong.	NET	35c
A2657	6 Prong.	NET	38c



COIL FORMS

Low-loss coil forms of Insulux. 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 2 1/2" x 5". 80 and 160 meter coil forms 4" x 6 1/2".

forms 2 1/2" x 5". 80 and 160 meter coil forms 4" x 6 1/2".

FOR 20 AND 40 METERS		FOR 80 AND 160 METERS	
A5696	Less supporting legs	NET	\$0.70
A5697	With supporting legs	NET	.95
A5698	Less supporting legs	NET	\$1.18
A5699	With supporting legs	NET	1.32

FLEXIBLE SHAFT COUPLINGS

For use with any condenser having 1/4" shaft. Flexible phosphor bronze springs. 1" diameter. Ideal for receivers or xmitters.

A6115	Bakelite Type	22c
A6116	Ceramic Type	27c



MALLORY-YAXLEY PANEL BUSHING

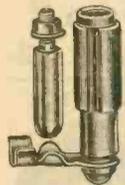
For use with brass or fibre shafting, to mount condensers, etc., away from panel. Fits 1/4" shaft; panels up to 3/8".

A6120	10 for 44c.	NET EACH	5c
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BUTTON-TYPE FEED-THRU BUSHING

For use wherever it is necessary to pass voltage or R.F. current through metal panels or chassis. Low-loss ceramic, 3/8" diam., with center hole for 6-32 screw. Fits 3/16" hole.

A6121	PER DOZEN	NET	20c
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TRANSMITTING CONNECTORS

A6146. JACK. 1 1/4" high. Mounts with a 10-32 screw. NET EACH 11c

A6147. PLUG. Fits above jack. 1/4" diameter with 10-32 nut; has hole in end. Fits 1/4" copper tubing. NET EACH 3c



STRAIN INSULATOR

A husky, brown porcelain insulator for breaking up antenna guy wires or supporting wires over long spans. 2 1/4" long, 1 1/2" diam. A6195, 10 for 54c; EACH 6c

LEAD-IN INSULATORS



For use with transmitter or receiver lead-in or feed systems. Vitrified glazed porcelain cones on threaded rod.

A6138	10' rod with cone insulators and water-tight washers	NET	53c
A6139	15' rod with cone insulators and water-tight washers	NET	88c



MIDGET STAND-OFF INSULATORS

Small glazed porcelain units. Inexpensive and efficient insulators for multi-stage rigs.

A6142. 2 inches high. Body 1 3/8" with 10-32 nickel plated brass hardware. NET EACH 6c

A6143. 1 1/2" high. Body 1" with 8-32 nickel plated brass hardware. NET EACH 5c

A6144. 1 3/8" high. Body 1/2" with 6-32 hardware. A tiny unit. NET EACH 4c



JACK TYPE

An assembly of 2" stand-off insulator and light duty jack. For low-power use. Inexpensive and efficient.

A6145. NET EACH 8c



FEED-THRU STAND-OFF INSULATORS

The ideal method of bringing leads through chassis bases, or through sub-panels. Sturdy insulators of glazed porcelain. Universally accepted for transmitter use.

A6112. 3/4" high, 3/8" dia. base. Fits 3/8" hole. EACH 7c

A6111. 7/8" high, 1/2" dia. base. Fits 7/8" hole. EACH 10c

A6110. 1 1/4" high, 7/8" dia. base. Fits 7/8" hole. EACH 13c

JACK TYPE FEED-THRU

Same units as listed above, but fitted with built-in jack on top. Jack fits standard GR plug.

A6113. 1 1/4" high, 7/8" dia. base; fits 7/8" hole. NET 17c

A6114. 7/8" high, 3/4" dia. base; fits 3/4" hole. NET 13c



KNIGHT GIANT PANEL FEED-THRU INSULATOR

Made of low-loss ceramic material. Can be used for high voltage feed-thru, standoff for "tank" circuits, antenna feeder bushings, etc. 4" high, 2" diam.

A6118. With 1/4" - 20 screw and nuts. EACH 32c

A6117. As above but with wing nut. 35c

CARDWELL COAXIAL BEADS

For constructing 1/2" copper or brass concentric line. Alsmag 196 beads. .295" diam. for No. 12 wire. Enough for 50 feet of line.

A13740. Package of 250. NET \$1.38



FEEDER SPREADER

For correct spacing of parallel antenna feeders of the 600 ohms or open wire type. Glazed white porcelain, 1/2" wide by 1/4" thick.

A6218. 3 3/8" long. NET EACH 3c

A6219. 6 1/8" long. NET EACH 14c

ANTENNA INSULATORS

Made of strong white porcelain. Low capacity and long leakage path. All 1" diameter.

A3415. 7 inches long. NET EACH 20c

A3416. 12 inches long. NET EACH 29c

A3417. 20 inches long. NET EACH 39c



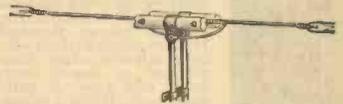
KNIGHT STAND-OFF INSULATORS

High-grade glazed porcelain construction with deep corrugations. Cadmium-plated brass hardware.

A6148. 5 1/4" high, with base 2 1/4" square. NET EACH 37c

A6149. 3 3/8" high, with base 1 1/2" square. NET EACH 18c

JOHNSON "Q" ANTENNAS



The favorite antenna of leading Amateurs. Provides 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 aluminum tubing. Can be fed by open wire system up to several hundred feet in length. Includes hard-drawn antenna wire, center assembly, 2 coils 1/2" aluminum tubing, "Q" section spacers, and insulators.

A13850	100. 10 Meter Kit.	NET	\$4.62
A13851	200. 20 Meter Kit.	NET	7.20
A13852	400. 40 Meter Kit.	NET	13.29
A13853	800. 80 Meter Kit.	NET	24.70
A13854	50. 5 Meter Kit.	NET	4.12

COPPERWELD SOLID ENAMELED ANTENNA WIRE

Steel core with welded copper covering. High conductivity; no corrosion. Available in continuous lengths up to 1500 feet.

Gauge	100 Ft.	NET	200 Ft.	NET
14	A13864	\$0.73	A13865	\$1.45
12	A13867	1.12	A13868	2.22
10	A13870	1.62	A13871	3.20

HARD-DRAWN SOLID ENAMELED WIRE

Gauge	100 Ft.	NET	200 Ft.	NET
14	A3455	35c	A3456	\$0.68
12	A3453	53c	A3454	.99
10	A3450	90c	A3451	1.73

SOLID TINNED COPPER WIRE

Medium hard-drawn copper wire with heavy tinned coating. Ideal for use in R.F. circuits.

Cat. No.	Gauge	25 Ft.	50 Ft.	100 Ft.
A2345	14	13c	26c	\$0.50
A2346	12	19c	38c	.75
A2347	10	25c	50c	1.00

EO-1 TYPE CABLE

Designed to handle any power output up to 2000 watts, 72 ohm surge impedance. Two No. 12 solid copper conductors, cellulose and rubber-insulated, with overall weatherproof braid.

No.	Per Foot	100 Feet	250 Feet
A2328	3 1/2c	\$2.94	\$6.99

SOFT-DRAWN COPPER TUBING



Made of seamless soft drawn copper, annealed. Bends easily. Maximum lengths, 25 feet.

Stock No.	Outside Diam.	Per Foot	Stock No.	Outside Diam.	Per Foot
A2475	1/4"	4c	A2478	3/8"	8c
A2476	3/8"	5c	A2479	1/2"	9c
A2477	1/2"	6c	A2480	5/8"	13c

PYREX INSULATORS

Strong, genuine Pyrex glass insulators for all types of antenna installations. Extremely low surface conductivity.

A3750. 3 3/8" long. For R.F. use up to 250 watts. NET 20c

A3751. 7 1/2" long. For R.F. use up to 1000 watts. NET 75c

BEE-HIVE INSULATOR

For supporting coils, condensers, high voltage leads, etc. Made of brown glazed porcelain, 2" diam.; 2 1/4" high. Extra-strong; weatherproofed for outdoor use.

A6190. 10 for 84c. EACH 9c

STAND-OFF INSULATOR

Highest quality porcelain; 4" high. Hole at top for supporting or holding wire or cable.

A6191. 10 for 95c. EACH 10c

Transmitting Equipment

BUD DELUXE STEEL CABINETS



Attractive, modern streamlined design with rounded corners and chromium trim top and bottom. Recessed front so panels fit flush with no protruding edges. Constructed of heavy steel; holds any type of radio equipment. Drilling is universal for all 19" rack panels with either Amateur or Western Electric notching. Full length removable hinged door at rear, held in closed position by two nickel-plated snap catches with provision for installing type SW-1270 Cabinet Interlock switch listed below. Inside depth, 16". Width overall, 22". Available in Black or Grey wrinkle-finish; Black is supplied unless Grey is specified. Shipped knocked down with all hardware.

Cat. No.	Panel Space	Overall Height	Shpg. Wt.	NET
A14700	42"	47"	100 lbs.	\$27.05
A14701	61 1/4"	66 1/2"	140 lbs.	30.87
A14702	77"	82"	165 lbs.	36.75

BUD RACK & CABINET DOLLIES



For use with relay rack or cabinet type equipment. Permits moving of equipment without dismantling. Frames of heavy steel finished in black wrinkle; high-grade composition wheels will not scratch polished floors. RD-505 and RD-506 are light-duty units for cabinets having base size from 14"x17" to 17"x21". RD-507 and RD-508 are heavy-duty units and fit cabinets having base size from 15"x20" to 18"x22 1/2". Ideal for use in the Ham Shack for heavy transmitters. Sturdily-built to give long and dependable service.

No.	Type	Wheels	NET
A14703	RD-505	1 1/2"	\$3.38
A14704	RD-506	2"	5.15
A14705	RD-507	1 1/2"	3.97
A14706	RD-508	2"	5.73

We can supply all types of steel cabinets, racks and panels, mounting equipment, etc., for any amateur requirement. Write us, giving full details of your needs and we shall quote promptly.

GORDON HAND WHEELS



A complete line of tuning control wheels which permit uniform appearance on all types of Transmitting equipment. Bakelite wheels with pointer; fit all 1/2" shafts. 1 1/2" wheel with 270° scale for gain controls.

A2626.	3 1/4" Hand Wheel and Pointer with 180° scale.	NET.....	\$1.12
A2627.	2 1/4" Hand Wheel and Pointer with 180° scale.	NET.....	94c
A2628.	1 3/4" Hand Wheel and Pointer with 180° scale.	NET.....	73c
A2629.	1 1/4" Hand Wheel and Pointer with 180° scale.	NET.....	47c
A2630.	1 1/4" Hand Wheel and Pointer with 270° scale.	NET.....	53c

HAND WHEELS ONLY

Same as above, with pointer, less scale.

A2635.	3 1/4" Hand Wheel Only.	NET.....	82c
A2636.	2 1/4" Hand Wheel Only.	NET.....	71c
A2637.	1 3/4" Hand Wheel Only.	NET.....	29c
A2638.	1 1/4" Hand Wheel Only.	NET.....	24c

ILLUMINATED CALL LETTER PLATE EMBLEM



Dress up your Ham Station or transmitter with this gadget. Polished chrome escutcheon with black background and translucent green call letters illuminated from rear. Two complete alphabet sets supplied; letters in any combination of four or five quickly inserted. With reflector box and sockets wired for 110 volts. Less bulbs.

A2887. NET..... \$2.35

RELAY RACKS AND PANELS

Designed for Transmitters or Public Address Systems. Heavy channel iron construction assures maximum rigidity and keeps all units in alignment. Heavy wrought steel base is drilled for floor mounting. Accurately drilled for mounting screws every 1 1/4 inches. Standard size to accommodate 19 inch panels with holes spaced 18 3/4". Shipped in knock-down form. Complete with necessary nuts and bolts for mounting. Will make professional-appearing Transmitter or Public Address Installations.



38 1/2 INCH RACK
A14720. Shipped knocked-down. Complete with hardware. Weight, 26 lbs. **\$8.70**
NET.....

73 1/2 INCH RACK
A14721. Shipped knocked-down. Complete with hardware. Weight, 40 lbs. **\$10.70**
NET.....

PANELS FOR RELAY RACKS

All 19" wide, 1/4" thick. Drilled at multiples of 1 1/4". Fit racks or cabinets above.

Size Ht.	Black Wrinkle Steel	Black Wrinkle Electroloy	Grey Wrinkle Steel
1 1/4"	A14722 .42	A14731 .64	A14740 .46
3"	A14723 .46	A14732 .93	A14741 .50
5 1/4"	A14724 .50	A14733 1.27	A14742 .64
7"	A14725 .55	A14734 1.55	A14743 .68
8 3/4"	A14726 .59	A14735 1.83	A14744 .84
10 1/2"	A14727 .73	A14736 2.11	A14745 1.05
12 1/4"	A14728 .82	A14737 2.46	A14746 1.15
14"	A14729 .95	A14738 2.73	A14747 1.35
15 3/4"	A14730 1.10	A14739 3.03	A14748 1.55

RELAY RACK BRACKETS

Provides easy mounting of chassis bases and sub-panels to relay rack panels. Made of sturdy auto body steel with black crystalline lacquer finish. Will absolutely prevent sagging of shelves.

A14750.	5" Base. PER PAIR.....	38c
A14751.	8" Base. PER PAIR.....	90c
A14752.	11" Base. PER PAIR.....	75c

METER PANELS

Heavy steel, black crystalline meter panels. Slotted to fit standard relay racks. 5 1/4" x 19".

Cat. No.	No. of Holes	Meter Size	NET
A14753	5	2"	\$1.38
A14754	3	2"	.95
A14755	5	3"	1.44
A14756	3	3"	.97

METAL NAME PLATES



(Illustration is Actual Size)

High quality name plates designed to give your equipment a professional appearance. Made of brass with characters and borders chromium-plated; backgrounds are etched dull black. Available in 104 different markings, among which are the following: Microphone, Phono, Input, Oscillator, Transmitter, 1st Buffer Grid, Power Amp. Plate, Antenna, Plate Voltage, Filament Voltage, Key, Rectifier, A.C. Input, Modulator Plate, Gain Control, Input, etc. Write for free complete list of name plates available. Standard size plate is 1 1/4"x3/4" inches. This size is especially suited for Sound and Test Equipment. Furnished complete with self-tapping machine screws. SPECIFY MARKING DESIRED WHEN ORDERING.

A2885. NET EACH..... 6c

DELUXE SIZE

Similar to above but larger; 2 1/2"x1 1/4". Especially designed for transmitters, etc. WRITE FOR COMPLETE LIST OF PLATES.
A2888. NET EACH..... 10c



ALUMINUM CALL-LETTER PLATES

Polished cast aluminum call-letter plates with black crackle finish background. Mount on front of transmitter panel by means of two machine screws at rear. Size 7" long, 2 1/4" high. Allow three weeks for delivery. Specify call letters.
A2886. NET EACH..... \$1.47

BUD REMOVABLE TOP CHASSIS

A new type of chassis base ideally suited for use by Amateurs and Experimenters. Made of durable auto body steel. Consists of rigidly constructed channel type frame with removable flat top. With these chassis bases in your transmitter you won't have to junk a chassis and buy a new one every time you make changes in circuit or layout. Removable top also makes it easy to cut holes for sockets, transformers, etc. Also permits close wiring of all components mounted underneath the top of the base without sides interfering with use of tools. Finished in black crackle. Replacement tops are listed below. Use these fine chassis bases and save money in the long run.



No.	Size	NET
A14707	10" x 17" x 3"	\$1.18
A14708	10" x 17" x 4"	1.59
A14709	13" x 17" x 3"	1.76
A14710	13" x 17" x 4"	2.21

REPLACEMENT TOP PLATES

For use with removable top chassis bases listed above; provides a new chassis at less than half the usual cost. Heavy-gauge auto body steel.

A14711	10" x 17"	59c
A14712	13" x 17"	74c

BUD DELUXE TABLE CABINETS

Modern streamlined design with rounded corners. Constructed of heavy steel. Built for sturdiness and good appearance. Ideal for use by Amateurs, Experimenters, or anyone using rack panel type equipment. Panels fit snugly with front. All have recessed hinged top covers; A14715, A14716, and A14717 also have hinged doors at rear. Drilled to take any 19" rack panel with Amateur or Western Electric notching. Chromium trim top and bottom. Extremely sturdy; welded throughout and shipped completely assembled. Inside depth is 14 1/2", overall width, 22". Available in Black or Grey crackle finish; Black is supplied unless Grey is specified.



No.	Panel Space	Overall Ht.	NET
A14713	8 1/2"	10 1/4"	\$ 7.35
A14714	12 1/2"	14 1/4"	8.82
A14715	17 1/2"	19 1/2"	11.76
A14716	26 1/2"	28 1/4"	13.23
A14717	35"	37"	14.70

JOHNSON INDICATORS

Attractive tuning indicators which give that much desired Commercial appearance to Amateur transmitters. Handle molded of one-piece black bakelite. Scale is black and silver etched metal, with zero at left. Fit any 1/2" shaft; Type 206 also fits 3/8" shaft.



A13860. Type 204. Indicator with 4" diam. scale. NET..... 59c.

A13861. Type 206. Indicator with 6" diam. scale. NET..... 73c.

COTO CONTROL WHEEL

Combines pointer and dial in a single attractive control. Wheel is molded black bakelite fitted with aluminum pointer. Fits 1/4" shaft. Dial scale is black-anodized polished aluminum with polished aluminum markings. Two pins attach nameplate. Gives professional appearance. Nameplates available as follows: Oscillator, Osc. Plate; Buffer; Buffer Plate; Doubler; Doubler Plate; Buffer Dblr. Plate; Grid; Plate; Tank; Neutralize; Pwr. Amp. Grid; Pwr. Amp. Plate; Antenna. Specify name plate desired when ordering.



A2665. 3 1/4" Control Wheel. With name plate. NET..... \$1.18

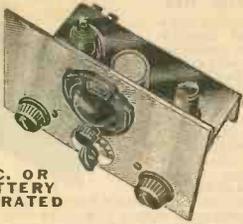
A2666. 3 1/4" Wheel only. With pointer. NET..... 88c

A2667. 2 1/4" Wheel. With name plate. NET..... \$1.00

A2668. 2 1/4" Wheel Only. With pointer. NET..... 76c

KNIGHT "Build Your Own" KITS

NEW KNIGHT METAL TUBE "OCEAN HOPPER"



A.C. OR BATTERY OPERATED

An extremely efficient, easy-to-build receiver of modern design. Uses two metal tubes, 1-6J7 and 1-6C5. Features full broadcast tuning; electron-coupled detector; shielded chassis construction; regeneration control. May be operated from dry batteries or from special A.C. power supply listed below. Requires 6.3 volts at .6 A., 90 to 135 volts for plate supply. Kit contains: punched and drilled metal chassis base and panel, sockets, condensers, resistors, wiring diagram, etc. Coils, power supply, tubes, and headphones, are extra—see below for listing. Shpg. wt., 8 lbs.
A9844. Complete Kit of Parts. \$5.95
YOUR PRICE.....

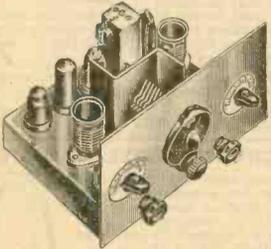
A9845. Coil Kit. Set of 4 coils for kit above. Tune 16 to 195 meters. **\$1.25**
NET.....

A5690. Broadcast Coil Kit. 2 Coils cover range from 190 to 350 meters. **65c**
NET.....

A9846. A.C. Power Supply Kit. Contains punched and drilled chassis base, transformer, chokes, condensers, etc. Requires 1-IV tube (not included). **\$4.90**
NET.....

A9847. 3 Watt Utility Amplifier and Power Supply Kit. Uses 1-6F5, 1-6F6, and 1-5Z4. Supplies field excitation for 2500 ohm field dynamic speaker. Supplies 6.3 volts A.C. and 250 volts D.C. for tuner unit. Less tubes and speaker. **\$4.45**
NET.....

1940 SUPER-GAINER SHORT-WAVE KIT



An extremely efficient, easy-to-build four tube short-wave receiver capable of seven tube performance. Regenerative first and second detectors provide high degree of selectivity and sensitivity. Features: Bandspread tuning, dual-regeneration, iron-core IF transformer, adequate shielding, operation either from batteries or A.C. power pack. Properly handled, this little set will provide knife-edge tuning of CW signals.

USES METAL TUBES

Complete kit includes punched and drilled chassis base and panel, all resistors, condensers, sockets, and instructions. Requires 1-6J7, 1-6J5, 1-6J7 and 1-6F6. Shpg. wt., 10 lbs.
A9829. Complete Kit. \$13.65
NET.....

A9835. Set of 8 Coils. Cover the 10, 20, 40, and 160 meter bands with adequate overlap for full short-wave band coverage. **\$3.40**
NET.....

A9836. Broadcast Coil Kit. Set of 4 coils to cover the 540 to 1500 KC Broadcast band. **\$1.70**
NET.....

A9837. A.C. Power Supply Kit. Output, 240 V. D.C., and 6.3 V. at 1.6 A. Includes punched chassis base, chokes, transformer, condensers, sockets, cable, diagrams, etc. Requires 1-80 tube (not supplied). Wt., 10 lbs. **\$3.95**
NET.....

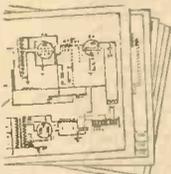
A wide range of new easy-to-build kits for the beginner as well as for the advanced experimenter. All KNIGHT kits can be assembled in a minimum amount of time. Chassis bases are punched and drilled; only the simplest tools are required for assembly. Even the radio novice can build these sets successfully. We can also supply matched parts lists for any set featured in construction articles in any radio publication.

BUILDER'S HANDBOOK



A useful new manual prepared by ALLIED's engineers to aid the experimenter and builder. Tells how to select suitable circuits, read diagrams, lay-out and punch chassis bases and panels, correctly place and wire radio parts, and efficiently operate radio receivers and transmitters. Includes socket lay-out information, coil-winding data, and other valuable charts. Shows schematic and pictorial diagrams of beginner and advanced sets, transmitters, fence controls, photo electric relays, etc. 8 1/2"x11".
A1753. NET. 10c

"BUILD-YOUR-OWN" WIRING DIAGRAMS



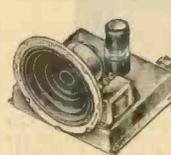
Clear, easy-to-read diagrams with complete matched parts lists enables you to build your own receivers, transmitters, amplifiers, power supplies and gadgets, using the latest type tubes and modern efficient circuits. Carefully designed for "factory-built" performance.

- A1758. 2 Tube DX'er S.W. Battery Set.
- A1759. 2 Tube "Ocean Hopper."
- A1760. 4 Tube A.C. Broadcast TRF.
- A1761. 4 Tube A.C.-D.C. Broadcast TRF.
- A1762. 4 Metal Tube "Super-Gainer."
- A1763. 4 Tube 1.4 Volt Portable.
- A1763. 5 Tube A.C. Broadcast Super.
- A1764. 5 Tube Skip-Band A.C. Super.
- A1765. 5 Tube A.C. Broadcast TRF.
- A1766. 6 Tube Broadcast Battery Super.
- A1767. 6 Tube All-Wave Super.
- A1768. 6 Tube 6 Volt Skip Band Super.
- A4442. Experimenters' Kit and 1 Tube Set.
- A4443. Beat Oscillator Kit.
- A4444. Wireless Phono Oscillator.
- A4445. Tiny Knight 4 T. AC-DC T.R.F.
- A4446. 1 Tube Pocket Set.
- A4449. Junior Receiver-X-mitter.
- A1777. 2 1/2 Meter Transceiver.
- A4448. 20 Watt Transmitter.
- A1769. Volume Expander for Radio or P.A.
- A1770. Crystal Set.
- A1771. 3 Watt Amplifier and Power Supply.
- A1751. 4 Watt AC-DC Amplifier.
- A1775. 1 Tube Phono-Amplifier.
- A1772. 5 Tube 2 Band A.C.-D.C. TRF.
- A1773. 6 Tube 2 Band A.C. Super.
- A1774. 5 Tube Ham Super.
- A1752. Photo-Electric Cell Unit.
- A1778. Noise Silencer.
- A1782. Coil Winding Data.

YOUR PRICE EACH DIAGRAM (To cover handling and mailing)..... 5c
Choice Of Any 6 Diagrams..... 20c

Schools—colleges—radio clubs. Write for our attractive quantity prices for wiring diagrams.

1-TUBE PHONO-AMPLIFIER KIT



An efficiently engineered kit designed for excellent reproduction of all phonograph records when used with any high-impedance magnetic or crystal pickup and motor-turntable unit. Operates from A.C. or D.C. Includes 5" P.M. speaker. Employs new 70L7GT tube, a dual-purpose rectifier and Beam Power amplifier. Develops output of .6 watt. Has volume control. Kit includes punched and drilled chassis base and all necessary parts (less tube). Wt., 7 lbs.
A9832. Kit as described. \$4.75
NET.....

A900. Raytheon 70L7GT tube. 94c

1940 2-TUBE DX-ER KIT

The very newest version of the most popular low-priced kit for the short-wave beginner, experimenter, and radio student. Uses two economical 1.4 volt tubes (1H5 and 1N5) in an advanced circuit employing high-gain regenerative detector and resistance-coupled audio stage. Has regeneration control and on-off switch on front panel. Operates from a single dry cell and two "B" batteries. Kit contains all parts, including drilled panel and baseboard. Coils and accessories listed below are extra. Shpg. wt., 6 lbs.



A9880. NET \$3.25
A9881. Tube and Battery Kit. 1-1H5 and 1-1N5 tubes, 1-1 1/2 volt dry cell, and 2-45 volt "B" batteries. Shpg. wt., 20 lbs. **\$3.65**
NET.....
A2908. Brandes 2400 ohm headphones. \$1.79
NET.....
A5565. Coil Kit. Set of four coils covering 16 to 217 meters. Wt., 2 lbs. **NET..... 85c**

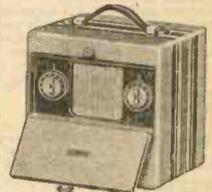
AUDIO AMPLIFIER KIT

A9840. For use with 2-Tube DX-ER. Uses a type 33 tube (not supplied). Will operate small magnetic speaker. Includes all parts required. Shpg. wt., 3 lbs. **\$1.15**
NET.....

A9841. Tube and Battery Kit for Audio Amplifier. Contains 1-33 tube, 1-22 1/2 volt "C" and 1-45 volt "B" battery. **\$2.10**
Wt., 13 lbs. NET.....

4-TUBE 1 1/2 VOLT PORTABLE KIT

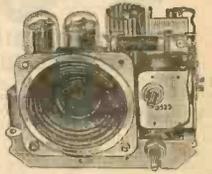
Now you can build your own Portable Battery Radio using the economical 1.4 volt tubes. Here's a set you can carry and play anywhere. Loop-type aerial is built into carrying case; no ground wire is needed. Employs four low-drawn 1.4 tubes in an efficient Superhet circuit: 1-1A5G, 1-1N5G, 1-1H5G, 1-1C5G. Operates from economical "AB" Power Pack. "A" drain only 25 amps., "B" drain only 10 M.A. Tunes standard broadcast band. Features include A.V.C. and full 5" P.M. speaker. Beautiful new luggage-cloth carrying case, supplied with kit, has protective lid and convenient carrying handle. Size: 9"x9"x7". Complete kit includes drilled chassis base, speaker, carrying case, diagrams, and all parts, except tubes and power pack. Shpg. wt., 7 lbs.



A9870. Complete Parts Kit, including Carrying Case. NET..... \$9.25
A9871. Tube Kit. Includes 1-1A5G, 1-1N5G, 1-1H5G, 1-1C5G. NET..... \$2.70
A10001. Burgess 150 hour "AB" Power Pack. Wt., 5 lbs. NET..... \$2.36

"TINY KNIGHT" 4-TUBE A.C.-D.C. TRF KIT

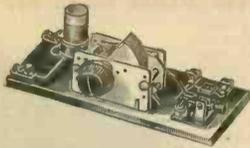
Here is a kit for an extremely compact, sensitive set. Uses high-gain coils tuning from 175 to 500 meters. Circuit design and chassis lay-out result in semi-regenerative action for maximum sensitivity and selectivity.



Has 2 gang condenser, volume control with A.C. switch, and built-in antenna. Supplied complete less only tubes and cabinet. Includes a punched and drilled chassis base. A good quality kit. Shpg. wt., 5 lbs. **\$4.75**
NET.....

A9589. Plastic walnut finish cabinet. Size, 7"x5"x4 1/2". Wt., 1 lb. **NET..... 79c**
A9587. Tube Kit. 6K7GT, 6J7GT, 25L6GT and 25Z6GT tubes. **NET..... \$2.05**

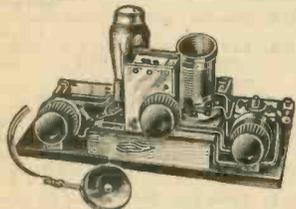
LATEST "Build Your Own" KITS



KNIGHT CRYSTAL SET KIT

Here is a new and modern crystal set that every boy can build. Supplied in easy-to-assemble kit form using the best quality parts obtainable. Will provide unusually fine reception of local broadcast stations. Kit contains base-board, completely wound coil assembly, high-grade variable condenser, open type adjustable crystal detector with sensitive crystal, connectors, color-coded point-to-point wiring instructions, and schematic diagram.

- Shpg. wt., 4 lbs. **\$1.35**
A9867, NET
A2806, Headset, NET 97c
A3485, Aerial Kit. You will obtain the best results with this aerial. **NET** 37c



KNIGHT ONE TUBE ALL-WAVE BATTERY KIT

Compact and simple to build. A one-tube battery-operated receiver which brings in police signals, amateurs, broadcast stations and lots of distant stations. All terminals are color-coded and no wiring diagram is necessary. Has wood base. Uses a type 30 low drain tube. Complete kit includes all parts, base, hardware, wire, 2 coils for 190 to 550 meters, earphone and clear instructions. Less tube and batteries. Wt., 4 lbs.

- A9830, Complete kit** **\$3.95**
YOUR PRICE
A9831, Tube and Battery Kit. Consists of: 2-1½ V. dry cells, 1-45 V. "B" battery and 1-30 tube. Wt., 15 lbs. **NET** \$1.70
A5565, Short-Wave Coil Kit. 4 coils cover 16-217 meter range. **NET** 85c

AUDIO AMPLIFIER KIT

A9832, A two-stage audio amplifier. Will produce more than enough volume for magnetic speaker. Uses 2-30 tubes. Complete kit less tubes and batteries. Wt., 4 lbs.

- NET** **\$1.45**
A9833, Tube and Battery Kit. Contains 2-30 tubes, and 1-45 V. "B" Battery. Wt., 11 lbs. **NET** **\$1.63**



KNIGHT EXPERIMENTERS' KIT AND ONE TUBE RADIO

Learn radio fundamentals with this "101 Experiments" kit. Consists essentially of a high quality regenerative one tube set, battery kit and two test meters. Instructions supplied tell how to measure voltage and current, adjust an oscillating circuit, test for shorts and open circuits, and perform numerous other interesting experiments. Makes it easy to learn radio principles and construction work.

- A9596, Complete with tube and batteries, NET** **\$5.75**
A9834, R.F. Unit. Easily connected to above set; increases sensitivity and selectivity. With 01A tube. **NET** **\$1.85**

TOOL KIT

Essential tools for radio building. Includes soldering iron, solder paste, screw driver, pliers.

- A5517, NET** 89c

KNIGHT WIRELESS PHONO-OSCILLATOR KIT

This inexpensive, easy-to-build kit will permit you to play phonograph music and to make your own broadcasts through any radio set without direct connection to the set. Operates over distances up to 25 feet from the radio. Uses type 6A8 tube as osc.-mod. and 25Z5 tube as rectifier. Drilled chassis, 5½"x4"x1¼". Supplied complete less tubes, phono pickup, and microphone. For 115 V. AC or D.C.

- Shpg. wt., 4 lbs. **\$2.95**
A9165, NET PRICE
A9166, Tube Kit. Consists of 1 matched 6A8 and 1-25Z5. **NET** **\$1.05**

10c "BUILD-YOUR-OWN" RADIO PROJECTS

Complete construction information on 50 most popular S.W. receivers and transmitters featured recently in "Radio and Television." Average size, 11"x17". Each project includes wiring diagram, illustrations, and list of parts.

- A4350, Switch-Band-2 Receiver.**
A4351, Beginner's 2 Tube Receiver.
A4352, Portable Superhet Four.
A4353, 4 Band, 3 Tube Superhet.
A4354, 5 Tube Superhet for Ham and Fan.
A4355, Short-Wave Prescaler.
A4356, Regenerative 2 Tuber.
A4359, S.W. & T. Communications Set.
A4360, Band Switching 2 Volt Set.
A4361, Multi-Band 2 Receiver.
A4362, VS-5 Metal Tube Superhet.
A4363, Beginner's 2 Tube Super.
A4365, Inexpensive "Forty-Niner."
A4367, 2-Volt Super DX-4.
A4369, High Gain, Metal-Tube Set.
A4370, World-Wide 10-Meter Converter.
A4371, DeLux 3 Tube.
A4375, 5-Meter Mobile Station.
A4376, H-G-M Medium Power Transmitter.
A4377, 806 All-Band Transmitter.
A4378, 25-Watt Modulator Using 35T's.
A4379, C-O-M 150 Watt Transmitter.
A4380, I-Meter Receiver and Transmitter.
A4381, 200 W. X'mitter, Pen-Tet Exciter.
A4382, 10 and 20 Meter Transmitter.
A4383, Wizard 1-Tube 50 W. Transmitter.
A4385, Oscillodyne 1-Tube Wonder Set.
A4385, "19" Twinplex Receiver.
A4386, Improved 3-Tube Doerle Set.
A4387, "Go-Get 'Em 2" Receiver.
A4388, 1-Tube Electric "Oscillodyne."
A4389, 2 to 5 Meter, 2-Tube Speaker Set.
A4390, 3-Tube Battery S.W. Set.
A4391, Brief-Case S.W. Receiver.
A4392, Pocket Short-Wave Receiver.
A4393, Cigar-Box 1-Tube "Catch-All."
A4394, "Dual Wave" S.W. Battery Set.
A4395, 1-Tube "53" Twinplex Receiver.
A4396, Portable Minidyne S.W. Set.
A4397, Ham-Band "Pee-Wee" 2-Tuber.
A4398, Duo-Amplidyne 1-Tuber.
A4399, Mono-Coil-2, Battery Set.
- YOUR PRICE**
EACH **10c.**
12 FOR **\$1.00**

PHILMORE 2-TUBE AC-DC RADIO KIT

An unusually compact and easy-to-assemble 2-tube set which operates from 110 volts A.C. or D.C. Uses 2 type 76 tubes in an exceptionally efficient circuit. Has variable condenser for greater selectivity in tuning. Tunes standard Broadcast band and (with extra coils below) Short Wave bands down to 17 meters. Complete with drilled chassis base, B.C. coil, all necessary parts, and instructions. (Less tubes and headphones.) Shpg. wt., 6 lbs.

- A7057, NET** **\$3.23**
Type 76 tube, EACH 26c
A7058, Kit of 4 coils to tune 17-200 meter bands. NET 72c

PHILMORE 3-TUBE BATTERY RADIO KIT WITH SPEAKER

A dandy new battery-operated 3-tube set in easy-to-assemble kit form. Uses new 1½ volt tubes which provide for efficient performance and amazingly low battery drain. Covers Broadcast band and (with extra coils below) Short-Wave bands down to 17 meters. Complete kit includes 2" M. speaker and all necessary parts (less tubes, batteries, and extra coils). With instructions. Wt., 6 lbs.

- A7064, NET** **\$5.10**
A7065, Tube and Battery Kit. Includes 1-1CSG and 2-1HS6 tubes; 1-1½ V. dry "A", 2-45 V. "B", and 1-7¼ V. "C" batteries. 24 lbs. **NET** **\$4.85**
A7066, 4 coils (17-200 meters) 72c

CATHODE RAY TUNING UNIT

An inexpensive visual tuning indicator using Magic Eye type tube. Easily installed in any Broadcast, All-Wave or Short Wave set having A.V. but not already equipped with visual tuning device. Complete assembly with mounting brackets, color-coded cable and instructions, less tube. Wt., 2 lbs.

- A1987, NET** **73c.**
A527, Raytheon 6E5 tube for receivers using 6.3 V. tubes. **NET** 67c
A516, Raytheon 2E5 tube for receivers using 2.5 V. tubes. **NET** 67c

CHROME STEEL MAGNET

A chrome steel, 2½" horse-shoe magnet for experimental purposes. Ideal for teaching fundamentals of magnetism. With magnetic "keeper" for retaining magnetism. Wt., 1 lb.

- A9250, NET** **25c.**

POPULAR TABLE MODEL RADIO CABINETS



MODEL 115 MIDGET CABINET

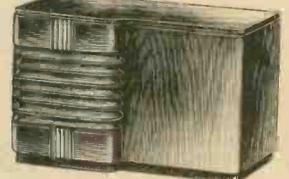
A solidly constructed midget type cabinet. Just the thing for set kits, intercom systems, extension speakers, etc. Inside dim. 9¼" wide, 6¼" high, 6" deep. Shpg. wt., 3 lbs.

- A10600, NET** **\$1.98**

MODEL 216 MIDGET CABINET

Same as above but has speaker openings on both ends instead of on front panel.

- A10601, NET** **\$2.03**



ATTRACTIVE TABLE CABINET

An unusually beautiful and well-constructed cabinet for housing "build-your-own" sets or for use as replacement for older cabinets. Has choice walnut-veneered woods for front and sides and top. Striking curved tourre-type grille is of American gumwood. Outside dimensions: 12½" wide, 8" high, 7¼" deep; inside dimensions: 11½" wide, 6½" high, 6" deep. Hand-rubbed finish. Will give a "professional" appearance to any home-built set.

- Shpg. wt. 5 lbs. **A10604, NET** **\$2.75**



NEW 12-TUBE "CUSTOM" 5-BAND SUPER KIT

Here is a receiver designed for the custom set builder who wants the best. Has all the latest developments: new "television" tubes, electrically-variable, band-expanding I.F. transformers, separate bass and treble tone controls, 15 watts output, 5 bands covering all Broadcast and Short-Wave bands from 540 K.C. to 42 M.C. and Long Wave band from 132 to 405 K.C. Has full-vision 9" illuminated dial; vernier dial drive on 3 gang condenser, full A.V.C. Tubes: 1853 R.F. Amp., 6SA7 Mixer, 1853 Osc., 2-6K7 I.F. Amp., 6H6-2nd Det., 6C5-1st A.F., 6C5-2nd A.F., 2-6L6 P.P. Output, 5X4G-Rect., 6G5 Tuning Eye. Easy to assemble from detailed diagrams and instructions supplied. Size: 10"x17"x3". Shpg. wt., 25 lbs.

- A14825, Complete Kit, less panel, cabinet, speaker and tubes. \$52.04 NET**
- A14826, Metal Cabinet, 19/4"x10"x11 1/2". \$4.41 NET**
- A14827, Front Panel, 19/4"x10". \$2.06**
- A14828, RCA Tube Kit. NET... \$10.15**
- A9267, 12" Dynamic Speaker. NET \$3.69**

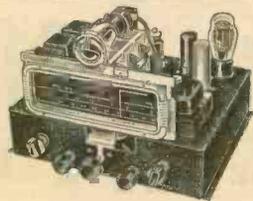
COMPLETE TUNING UNIT

"Custom" tuning unit. Dial with 5 bands tunes from 7.1 to 2270 meters (42 M.C. to 132 K.C.). Uses 410 mmf. condenser, 1853 R.F. Amp., 6SA7 Mixer, and an 1853 Oscillator. Completely assembled and wired. **\$26.75**

9 TUBE "CUSTOM" SUPER

Combines excellent tone quality with superior performance. 4 bands cover 7.15 to 555 meters (42 M.C. to 540 K.C.). Requires: 2-1853, 1-6SA7, 1-6K7, 1-6F8G, 2-6V6, 1-5Y4G and 1-6G5 tubes. Requires only screwdriver, pliers, and soldering iron for assembly. Chassis measures 9"x13"x4 1/2". Shpg. wt., 22 lbs.

- A14830, Complete Kit, less panel, cabinet, speaker, and tubes. \$34.99 NET**
- A14826, Metal Cabinet, 19/4"x10"x11 1/2". \$4.41 NET**
- A14831, Front Panel, 19/4"x10". \$1.76**
- A14832, RCA Tube Kit. NET... \$7.95**
- A9265, 12" Dynamic Speaker. NET \$3.69**



7-TUBE A.C. "UTILITY" SUPERHET KITS

These fine kits are supplied complete with all coils, tuning condenser, chassis, controls, knobs, switches, resistors, condensers, transformers, wire, hardware, etc. Uses 6A8, 6Q7, 6V6, 6G5, 5Y4G, 2-6K7. Less panel, cabinet, tubes, speaker. Wt., 18 lbs.

- A10643, Broadcast Band Model (530-1660 K.C.). NET \$20.43**
- A10644, Broadcast and S.W. (530-1660 K.C., 5.85 to 18.8 MC.). NET \$22.78**
- A10647, Panel for A10643... \$1.09**
- A10648, Panel for A10644... \$1.09**
- A10649, Cabinet for above kits. Black crackle-finished steel. NET... \$2.65**
- A10629, RCA Tube Kit. NET... \$4.40**
- A9262, 8 1/2" Dynamic Speaker... \$2.25**

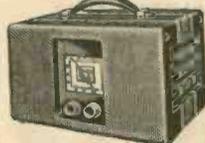


LATEST TELEVISION KIT

Designed after months of intensive research and development in the Meissner laboratories, this newest of Television Receiver Kits incorporates complete video and audio circuits. Uses a 5" cathode ray tube and is designed for standard 441 line scanning. Has front panel built-in speaker for audio channel. The complete set uses seventeen tubes as follows: 1852 Mixer, 6J5 Osc., 1852 First Video I.F., 1852 Second Video I.F., 6H6 Second Video Detector, 6F6 Video Amplifier, 1852 Synchronizing Amplifier, 2-6N7 Multi-vibrators and 2-6F8G Sweep-circuit Amplifiers, 1852 Audio I.F., 6SQ7 Audio Second Detector-Amplifier, 6V6 Audio Output Amplifier, 5V4G Rectifier, 879 High Voltage Rectifier, and 1802-P4 Videtron 5" Cathode Ray Tube. Any experienced Amateur or Experimenter can assemble the Meissner Television Receiver from detailed circuit diagrams and instructions supplied. Kit includes every necessary part and all tubes, including 5" Cathode Ray Tube. For operation from 110 V. 60 cycle AC only. Write for detailed descriptive literature. Shpg. wt., 55 lbs.

- A14835, NET \$139.50**
- A14836, Walnut Cabinet for above. Beautiful hand-rubbed finish. NET... \$19.60**
- A14837, Construction Sheets, with pictorial and schematic diagrams. NET... 25c**

PORTABLE BATTERY-OPERATED RADIO KIT



A complete kit of parts to make a portable battery-operated receiver. Designed for loop antenna operation. Superheterodyne circuit tunes the standard Broadcast band—535 to 1660 K.C. Provision is made to connect external antenna for greater signal strength and distant reception. Uses latest type low-battery-drain tubes. Following tubes required: 1-1A7G Det.-Osc., 2-1N5G I.F. Amp., 1-1H5G Det.-A.F., 1-1C5G Output. Burgess batteries required: 1-4F (Cat. No. A8970), 2-3B30 (Cat. No. A9177). Shpg. wt., 9 lbs.

- A14838, Complete Kit, less case, batteries, and tubes. NET \$14.70**
- A14839, Cabinet in airplane-luggage style, canvas-covered. Holds complete kit and batteries. 13"x9"x8 1/2". NET... \$4.12**

NOISE SILENCER KIT



Designed to reduce static and man-made interference. Based on the famous Lamb circuit. Operates with any superheterodyne having an I.F. of 450 to 470 K.C. Silencer supplies its own filament current. Equipped with tube prong for plugging into receiver. Uses 1 each—6K7, 6J7, 6L7, and 6H6 tubes. With instructions. 8 1/4"x5 3/4"x3 1/4". overall. Shpg. wt., 3 lbs.

- A9558, Less tubes. NET... \$6.76**

NEW INSTRUCTION MANUAL

A valuable book full of information for the Serviceman, Amateur, Experimenter, Set Builder, etc. Includes technical data on Radio and Television, wiring instructions, schematics, and alignment data. 168 pages.

- A9559, NET... 48c**

WE CAN SUPPLY all the Meissner Kits and Adapters. Write us for free copy of the Meissner catalog. Complete Kits costing more than \$20 are available on the Meissner convenient Time Payment Plan. Ask for details.

STUDENT "MIDGET" KITS

These outstanding new kits are ideal for the radio newcomer and experimenter. The new 1 1/4 volt tubes provide high efficiency and economy of battery consumption. Each kit includes coil for the Broadcast band. Clear instructions for wiring and operating are supplied. Wts., approx. 2 lbs.



- A9560, 1 TUBE KIT.** For headphone reception. Uses 1-1E4G tube, 1-1 1/2 V. "A" and 1-45 V. "B" battery. Less tube and batteries. **\$2.65 NET**
- A9561, 2 TUBE KIT.** Requires 1-1C5G, 1-1E4G tubes, 1-1 1/2 V. "A", 2-45 V. "B", and 1 7/2 V. "C" batteries. Less tubes and batteries. **\$2.94 NET**
- A9562, 3 TUBE KIT.** Requires 1-1C5G, 1-1E4G, 1-1H5G tubes, 1-1 1/2 V. "A", 2-45 V. "B's", 1-7 1/2 V. "C" battery. Less tubes and batteries. **\$3.67 NET**

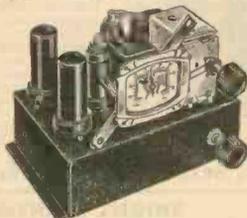
ACCESSORIES FOR ABOVE

- A9563, 70-200 Meter Plug-in Coil. EACH**
- A9564, 35-70 Meter Plug-in Coil. } 24c**
- A9565, 17-35 Meter Plug-in Coil. }**
- A9566, 545-1500 Meter Plug-in Coil. } 88c**
- A710, Raytheon 1E4G Tube. NET... 71c**
- A705, Raytheon 1C5G Tube. NET... 94c**
- A719, Raytheon 1H5G Tube. NET... 94c**
- A8925, 1 1/2 volt "A" battery. NET... 21c**
- A8920, 45 volt "B" battery. NET... 94c**
- A8917, 7 1/2 volt "C" battery. NET... 48c**
- A2813, Single 1,000 ohm headphone with headband. NET... 66c**

ADD-ON KITS

Permits increasing size of 1 and 2 tube kits. A9586 Kit will provide speaker reception.

- A9585, Converts 1 tube kit to 2 tube kit. Less tube and batteries. NET 44c**
- A9586, Converts 2 tube kit to 3 tube kit. Less tube and batteries. NET \$1.09**



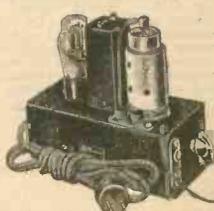
4-TUBE AC-DC TRF KIT

An easily-built metal tube receiver with surprising sensitivity and tone quality. For broadcast reception, 530 to 1600 K.C. Uses a 6K7 R.F. amplifier, 6J7 power detector, 25A6 pentode output, and 25Z6 rectifier. For 110 volts A.C. or D.C. Kit includes all parts, instructions and diagrams. Shpg. wt., 9 lbs.

- A10640, Complete Kit, less chassis, tubes and speaker. NET... \$7.20**
- A10641, Punched and drilled chassis, 7"x4 1/2". NET... \$1.32**
- A9576, 5" P.M. Speaker. NET... \$1.38**

WIRELESS PHONO OSCILLATOR

A self-powered new type wireless 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 A.C. or D.C. operation. Shpg. wt., 5 lbs.

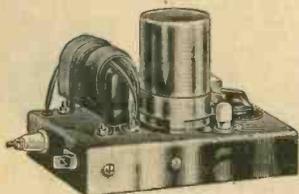


- A10630, NET... \$6.76**

"POPULAR MECHANICS"

Build-Your-Own KITS

R257 ELECTRIC FENCE CONTROLLER KIT



R257. This *Popular Mechanics* controller is one of the most economical new type "Electric Fencers" available. With only four dry cells, you can control up to 5 miles of fence in wet or dry weather. While this controller was originally designed to work with four dry cells, any 6 Volt D.C. source will operate unit satisfactorily. Equipped with many new features including indicating neon glow lamp, safety fuse, wet-dry switch, etc. The low-current consumption of the R257 is made possible by double-relay action. Controller produces 40 short-duration shocks per minute.

CUTS LABOR AND FENCING COSTS

This dependable Fence Controller Kit requires the use of only a single fence wire. When horses, cattle, hogs, or sheep come in contact with the wire, they receive an effective but harmless "sting" which drives them away. Livestock soon learn to keep away from these wires, and controller can be shut off for long periods of time, thus effecting more economy of operation. Relay armatures are the only moving parts in the assembly. The R257 has a neon lamp which glows when fence is operating correctly. Simple to construct. Chassis: 8 1/2 x 4 1/4 x 1 1/2". Shpg. wt., 6 lbs.

A9568. NET. \$7.95
A14100. Insulator Kit. 50 Fence and 4 Corner Insulators with washers. NET. .63C
A8911. Dry Cells. 4 required. EA. .33C
KIT OF 4, NET. \$1.20

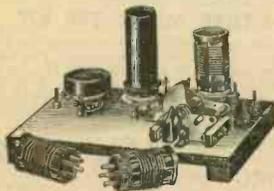
ONE TUBE FLASHLIGHT SET



R252. Popular Mechanics. A complete matched kit of parts for this popular set. Exceptionally efficient and easy to assemble. The new high-gain circuit uses a single 49 tube; two pen-light cells serve as "B" batteries, and a single flash-light cell as "A". Plug-in coils cover the short-wave bands. Complete kit includes all parts. Drilled panel, tube, batteries, and coil forms. Less headpieces. Wt., 6 lbs.

A9517. NET. \$4.10

KNIGHT TRANSMITTER AND RECEIVER KITS



20 WATT TRANSMITTER

Advanced type 6L6 Beam-Power transmitter for C.W. Stable crystal oscillator circuit. Rated at 20 watts. Quickly and easily assembled in breadboard style. Single condenser tunes all bands; supplied with 3 plug-in coil forms for 20, 40 and 80 meter coverage with proper crystals. Kit contains baseboard, tuning condenser, all sockets, RF chokes, wire, diagrams, etc. Less tube, crystal, and key. Shpg. wt., 8 lbs.

A9544. NET. \$3.60

A9545. Accessory Kit. Contains Raytheon type 6L6 metal tube, key, 80 meter crystal and crystal holder. NET. \$4.40

A9546. Power Supply Kit. Well-filtered unit supplies correct plate and screen voltages and 6.3 V. for tube filament of the above transmitter. For 110 volts, 50-60 cycles A.C. Complete, less only 5Z3 tube. Shpg. \$5.05 wt., 12 lbs. NET.

POPULAR MECHANICS KITS

Here is an extensive selection of complete kits of matched parts for building the most popular circuits described in recent issues of *Popular Mechanics Magazine*. We can also supply parts lists for all *Popular Mechanics* "R" number kits as soon as they are published. For best results build these circuits with ALLIED approved parts.

CONSTRUCTION BLUEPRINTS

The leading new *Popular Mechanics* sets are clearly described on 17 "x22" blueprints. Include schematic and pictorial diagrams, essential construction data, and matched lists of parts. Simplify build-your-own problems by using these blueprints.



- A1944. R271. Beginner's 1 Tube A.C.-D.C.
- A1943. R270. Phantom Record Player.
- A1942. R269. 4 Tube Bantam Set.
- A1928. R266. Beginner's 3 Unit Set.
- A1927. R265. Little Giant Phono-Radio.
- A1926. R264. Tube Tester.
- A1919. R263. Photo-Cell Relay.
- A1918. R262. Economy 9 Receiver.
- A1917. R259. All-Purpose Power Supply.
- A1907. R257. 6 Volt Electric Fence Control.
- A1902. R256. Three Progressive Sets.
- A1904. R253. A.C.-D.C. Hearing Aid.
- A1905. R252. One Tube DX S.W. Set.
- A1915. R227. Audio Amplifier for R252.
- A1906. R250. 1938 "Little Giant" 4 Tube.
- A1907. R249. Intercommunication System.
- A1900. R247. 5 Meter M.C.P.A. X-mitter.
- A1910. R245. Two Tube Portable.
- A1911. R243. Metal and Ore Locator.
- A1916. R239. Portable P.A. Amplifier.
- A1912. R237. Beain Tube Transmitter.

YOUR PRICE EACH 25.

"LITTLE GIANT" 4 TUBE AC-DC KIT

AC-DC KIT

R250. Popular Mechanics. A complete matched kit of parts for this popular set. Exceptionally efficient and easy to assemble. The new high-gain circuit uses a single 49 tube; two pen-light cells serve as "B" batteries, and a single flash-light cell as "A". Plug-in coils cover the short-wave bands. Complete kit includes all parts. Drilled panel, tube, batteries, and coil forms. Less headpieces. Wt., 6 lbs.



A9518. NET. \$7.45

BEGINNERS' ONE TUBE AC-DC LOUDSPEAKER SET

R271. An inexpensive, experimental one tube receiver using a crystal detector. Operates directly from 110 volt A.C. or D.C. The Single 25A7GT bantam type tube serves as dual purpose audio amplifier and rectifier. Fixed crystal needs no adjustment; tuning accomplished by variable trimmer type condenser. Resistor line cord reduces voltage for filament supply. Magnetic type 3" speaker gives ample volume on local stations. An ideal kit for the beginner to construct. Less tube. **\$4.35**



A8823. NET. \$4.35
A9243. Raytheon 25A7GT tube. .94c

PHANTOM RECORD PLAYER

R270. An easily assembled kit for constructing a "wireless" record player. Play your favorite records, or speak on mike through your radioreceiver without using wire connections between the phonograph and radio. Simply tune receiver to a quiet dial position at or near 1500 K.C. and music from receiver loud speaker. Complete with instructions, less tubes. **\$3.35**



A9848. NET. \$3.35
A9849. Tube Kit. Consists of 1-35A5 and 1-35Z3 Raytheon tubes. NET. \$1.42
A9172. High impedance Quam microphone. For use with above. NET. \$1.76

SIMPLIFIED TUBE TESTER

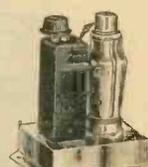
R264. Build this professional type tube tester. Easily constructed from complete parts kit furnished together with detailed instructions on assembly and wiring. Will test the majority of standard tube types in general use. Selector switch chooses correct filament test voltage. 0-1 milliamper meter furnished may be colored for "Good-Bad" indication. Provides "short" test from cathode to other elements; neon "short" indicator. Five sockets used. Tests octal base tubes. Complete with crackle-finished metal case. **\$13.25**



A9523. NET. \$13.25

BEAT OSCILLATOR KIT

Easily constructed BFO unit which can be attached to any B.C. or S.W. 450-525 K.C. superhet. Will enable you to listen to code or to tune in weak signals with ease. Supplied with type 58 tube for sets with 2.5 volt tubes, or with 6D6 for sets with 6.3 Volt tubes. Specify which is needed. Wt., 2 lbs.



A9599. NET. \$2.75

VOLUME EXPANDER KIT

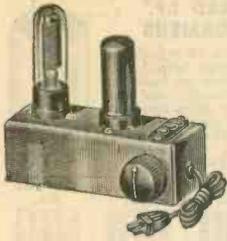
For use with all receivers or amplifiers to provide true reproduction of Broadcast program or phonograph records. Provides greater fidelity of reproduction by restoring the original ranges which are usually suppressed during the process of broadcasting or recording. Reproduces the feeling and warmth of the original rendition. Makes ordinarily flat and colorless recordings glow with full-bodied tone. Degree of expansion is adjustable to suit varying conditions. Will greatly improve tone quality. Complete kit includes all parts except tubes. Requires 1-6L7, 2-76's, and 1-80. **\$6.65**



A9892. Less tubes. NET. \$6.65

PHOTO-ELECTRIC CELL EQUIPMENT

KNIGHT PHOTO-ELECTRIC CELL KIT



Highly sensitive, lowest-priced photo-cell kit. May be used for starting and stopping motors, controlling bells and lights, for burglar alarms, and a thousand other applications. Increase or decrease of light intensity controls unit. Self-powered for 115 volt A.C. or D.C. operation. Uses G-M sensitive photo-cell and type 25A6 pentode as rectifier and amplifier. Relay is of the S.P.D.T. type. Kit includes all parts, photo-cell, Raytheon type 25A6 tube, punched and drilled chassis, and instructions. Shpg. wt., 5 lbs. **A9875. NET. \$5.90**

AC-DC LIGHT SOURCE

An efficient light source kit for photo-electric cell work. The 32 C.P. bulb has life of 1000 hours. Black case, 7x4x3 1/4". For 115 V. A.C. or D.C. Wt., 3 lbs. **A9877. NET. \$4.40**

"FYRE-SCOUT" FIRE ALARM SYSTEM



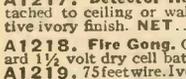
Fire is man's most deadly enemy when uncontrolled. Each day fire claims on an average of 40 lives and causes over a million dollars' damage. Fire insurance does not prevent fires, nor will it bring back to life some member of your family. Every fire is small when it starts, and if detected at this point, the danger would be slight. The "Fyre-Scout" alarm system has been designed to provide adequate protection in the home, shop, garage, farm, or institution. The heart of the system is the Detector Head, an automatic switch which rings the Fire Gong as soon as the temperature reaches 145 degrees. Any number of Detector Heads may be used. They should be placed at all possible danger spots such as furnaces, stoves, fireplaces, etc. Fire Gong operates on 6 volt dry cells. Battery lasts approximately two years. Complete system consists of 2 Fire Heads finished in Ivory, a 6" Fire Gong, 75 feet of wire, staples, and instructions. Wt., 5 lbs. **A1216. Complete Kit. NET. \$5.85**

A1217. Detector Head. May be easily attached to ceiling or walls. Attractive ivory finish. **NET. \$1.76**

A1218. Fire Gong. Operates from 4 standard 1 1/2 volt dry cell batteries. **NET. \$2.50**

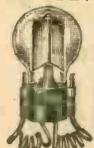
A1219. 75 feet wire. Ivory finish. **NET. \$5.90**

LIFE-SAVER FIRE EXTINGUISHER



A radically new type of fire extinguisher. Abnormal heat melts seal, releasing Underwriters' approved fluid which quickly snuffs out flames. Fluid is harmless to rugs, furniture, walls, or human beings. Protects 800 cubic feet of space. For home, shop, office, ham shack, garage, factory, boat, etc. Shpg. wt., 4 lbs. **A1234. NET. \$1.25**

CETRON PHOTO CELLS



A1140. A quality photo-electric cell suitable for many applications. Will replace W.E. type for sound film work. Flexible leads with phone tip connectors. Cathode plate is 1 1/4 sq. in. Requires an average ionizing voltage of 135 volts. A dependable Photo Cell.

CE-1 CELL

A1141. For replacing cells in Acme, Simplex, Edco, Meviola, R.C.A. Photo-phone, Powers, etc. Has 4 prong plug-in type base. 3 1/2" high, with cathode area of .94".

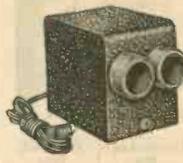
CE-2 CELL

A1142. For use with Argus, Bestone, DeVry. Full Range, Pacent, and Universal type projection equipment. A shorter, wider cell, with cathode area of 1.33", 4 prong base. Height, 2 1/2". **PRICE, EACH OF ABOVE. \$5.40**

WORNER "FOTO-ELECTRIC" PRODUCTS

We can supply Worner Photo-Electric equipment for all types of industrial use such as counting, sorting, grading, heat, light or smoke control, etc. Send us your specifications for prompt quotations.

"INVISIBLE SERVANT"



Will signal the passing of persons or objects through door, window, or passage-way. Ideal for announcing store customers' doctors' or dentists' patients, for safe-guarding property, etc. System consists of light source, photo-electric cell, amplifier, and relay all in one compact case. Has 6 V. A.C. output for operating chimes, bells, buzzers, etc. Ideal with A9876 chime listed below. Range of unit is from 30 to 40 feet. Crackle gray-finished case measures 4 1/2 x 5 x 7". With mirror. Easily installed. For 115 V. 60 cycles. Shpg. wt., 6 lbs. **A1228. NET. \$16.76**

THE NEW "ANNOUNCER"



Specially designed for announcing purposes. Range 15 feet. Self-contained unit has photo-electric cell, light source, amplifier, and relay. Has 6 V. A.C. output. May be mounted directly on door. Supplied with mirror and chime. Crackle-finished gray case measures 7" x 6" x 2 1/2". For 115 V. 60 cycles. Shpg. wt., 2 1/2 lbs. **A1227. NET. \$11.47**

PHOTO CELL AND RELAY



Contains a sensitive photo cell and quick-acting relay. Highly dependable; ideal for smoke and fire detection, counting unit for grading, for controlling machinery, lights, and motors, opening doors, etc. We will be glad to answer all installation or application problems. Size of unit is 6 1/2 x 7 x 4". Suitable light source is listed at right. For 115 V. 60 cycles. Shpg. wt., 10 lbs. **A1230. NET. \$15.58**

A1230. NET. \$15.58

PHOTO CELL ACCESSORIES

- A1222. Mirror.** Scientifically ground so that light beam is concentrated. With brackets and instructions. **NET. \$2.65**
- A1225. 6" Focal Lens.** For directing light on cell. **NET. 29c**
- A1226. Photo Cell.** A highly sensitive unit. **NET. \$1.95**
- RELAYS.** All relays are S.P.D.T. type with silver contacts. 5 amps. 125 V. A.C. With mounting brackets. 2 1/2 x 1 1/2 x 1 1/4". **NET, 1 lb.**
- A4090. 2500 ohm coil.** Plate circuit of tube. **NET. 90c**
- A4091. With 6 volt A.C. coil.** **NET. \$1.15**
- A4092. With 110 volt A.C. coil.** **NET. \$1.25**
- A4093. With 6 volt D.C. coil.** **NET. 90c**
- A9876. 6 Volt Door Chime.** **NET. 97c**

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 light source and a combination photo-electric cell, relay, amplifier, and alarm bell. In operation, light beam is focused on the photo-electric cell. Any interruption of this beam or breaking of the 115 volt circuit will cause alarm to ring. It will continue to ring until it is re-set by means of the keyless combination locking device. Light unit size 7 x 4 x 3 1/4"; relay unit, 6 3/4 x 7 x 4". Range is 75 feet. For 115 V. 60 cycles. Shpg. wt., 9 lbs. **A1220. NET. \$27.34**

EXTERNAL ALARM SYSTEM

A1221. Rings in conjunction with main alarm. Continues to ring even if cut off from main alarm. With batteries and 25 feet of cable. Shpg. wt., 6 lbs. **NET. \$7.64**

A1222. Mirror. For increasing effective area of protection. With instructions and mounting brackets. **NET. \$2.65**

PHOTO CELL LIGHT SOURCE

Designed for operation with Photo Cell and Relay listed at left but may be used with other types of photo electric cell units and relays. The long life bulb has very low wattage consumption, assuring maximum reliability and minimum operating cost. Special lens permits throwing a long, concentrated beam of light. Size of case is 7 x 4 x 3 1/4". For 115 V. 60 cycles. Supplied with bulb and line cord. Shpg. wt., 4 lbs. **A1231. NET. \$6.17**



A1231. NET. \$6.17

EBY PHOTO CELL EQUIPMENT

PHOTO CELL



A new type of photo cell designed for long life and maximum sensitivity. Ideal for all types of photo-electric circuits. Entire unit is shock-proof and moisture-proof. Measures 1 1/4" diameter, 3/4" high. Mounts in standard 4 prong socket. Wt., 1/2 lb. **A4032. NET. \$2.06**



SENSITIVE RELAYS

Designed for direct, or for full or half-wave rectified current circuits, where the operating power is small. Ideal for photo cell equipment, vacuum tube amplifier circuits, etc., due to the low power necessary to make contact. Sterling silver contacts carry 2.5 Amps. at 115 V. A.C. or 1.5 Amp. at 115 V. D.C. Wt., 1 lb. **EACH**

- A4045. 1000 ohm coil.**
 - A4046. 2500 ohm coil.**
 - A4047. 5000 ohm coil.**
 - A4048. 10000 ohm coil.**
- \$3.82**

ELECTRIC EYE HANDBOOK

A 32 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 engineer and the experimenter. **A4033. NET. \$29.**



EXPERIMENTAL PHOTO CELL KIT

Contains necessary parts for building various Electric Eye circuits. Kit includes Eby photo-cell, sensitive relay, punched and drilled chassis base, adjustable voltage divider, R.C.A. tube, sockets, resistors, condensers, etc. Also includes Eby Handbook. For 115 V. 60 cycles. Shpg. wt., 4 lbs. **A4049. NET. \$7.94**



NEW COILS FOR ALL PURPOSES

LATEST TYPE MEISSNER COILS

PLASTIC REPLACEMENT I.F. TYPE COILS



A radically new line of I.F. transformers priced remarkably low. Trimmer base and coil form are molded in one piece from plastic material absolutely unaffected by moisture. Specially-served Litz wire is used for the coils. The extremely compact size, 1 1/4" square by 2 1/2" high, makes it an ideal replacement unit for any set. Shield can is of aluminum. Transformers are of the double tuned type.

Freq.	Input No.	Interstage No.	Output No.
175	A4930	A4931	A4932
262	A4933	A4934	A4935
370	A4936	A4937	A4938
456	A4939	A4940	A4941

NET EACH..... **59¢**

UNIVERSAL ADJUSTABLE FERROCART COILS



These units permit exact duplication of defective R.F. Ant. or Osc. coils. Inductance is variable over a wide range, is subject to tracking. Shield size, 1 1/4"x1 1/4"x2 1/2". Mounts in small space.

SHIELDED TYPES
 A5795. Antenna Coil. NET \$1.18
 A5796. Oscillator Coil. EACH
 A5797. R.F. Coil. EACH

UNSHIELDED TYPES
 A4990. Antenna Coil. NET \$1.18
 A4991. R.F. Coil. EACH
 A4992. Oscillator Coil. EACH **73¢**

IRON-CORE BAND EXPANDING I.F.'S



An iron-core I.F. transformer with sharp selectivity for efficient C.W. or foreign reception. Also provides broad band-width for high-fidelity local-station reception. Electrically variable. Two of these units may be used to provide almost single-signal selectivity. 456 KC factory-set; range 340-640 KC. Mica-tuned type. Size, 1 1/4"x1 1/4"x3 1/2".

A5768. 2 Position. Sharp selectivity and Broad for High Fidelity. NET \$1.76

A5769. 3 Position. Sharp selectivity. Broad for High Fidelity. Medium for average use. NET \$2.06

HIGH-GAIN THREE PI I.F. TRANSFORMERS

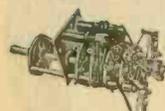


New type highly efficient I.F. transformers with three pi windings on primary and secondary. Exceptionally high gain. For best results, only one should be used in a receiver in single-stage I.F. amplifier. Double-top-tuned with ceramic-base mica-insulated trimmers. Cans measure 1 1/4"x1 1/4"x3 1/2". Quality-built units.

A5812. 456 KC Input. NET \$1.09

A5813. 456 KC Output. NET \$1.09

TELEVISION COMPONENTS



The units listed below have been developed by careful laboratory research in television receiver design. Write for latest Meissner catalog which contains complete information.

No.	Description	Type	NET
A4995	R.F. Coil Assembly	13-7608	\$7.35
A4996	First Picture I.F.	17-3461	2.06
A4997	Second Picture I.F.	17-3462	2.06
A4998	Third Picture I.F.	17-3463	2.06
A4942	Sound I.F.	17-3464	2.06
A4943	Sound Trap 14.25 M.C.	15-7500	1.47
A4944	Shielded I.F. Choke	19-1912	5.59
A4945	Sound I.F. Grid Coil	17-3467	.88
A4946	Video Peaking Coil	19-1911	.29
A4947	Low-pass Filter Choke	15-7501	.29
A4948	Television Const. Sheets	J90	.25

FERROCART IRON-CORE I.F. 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; 1 1/4" square, 3 1/2" high. With instructions.



Freq.	Input No.	Interstage No.	Output No.
175 KC	A5800	A5804	A5808
456 KC	A5801	A5805	A5809
1500 KC	A5802*	A5802*	A5810

*Input or Interstage. NET EACH..... **\$1.18**

DUAL BAND COILS

Efficient Short-Wave and Broadcast coils for the serviceman and experimenter. Shielded types are complete with mica-dielectric trimmers. Use with 456-465 KC. IF systems. For 365 mmf. T.R.F. variable condensers.



BROADCAST AND POLICE
 Cover 67-200 meters and 193-555 meters.
 Shielded Unshielded
 A7500 Antenna A7503
 A7501 R.F. A7504
 A7502 Oscillator A7505
 NET EACH..... **\$1.59** NET EACH..... **\$1.09**

A7514 Dual Adjustable Padding Condenser. Each section 180-620 mmfd. Correct series padder for oscillator coils above. NET..... **32¢**

A5775. 3 Gang 2 Position Switch. For use with coils listed above. For making front-of-panel band changes. NET..... **88¢**

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. Well-built for dependable reception.



BROADCAST, POLICE & S.W.
 For use with 450 mmf. condenser. Range: 170-555; 56-171; 16.2-57.7 meters.

A5910. Antenna \$2.06
 A5911. R.F. \$2.06
 A5912. Oscillator \$2.06
 A5761. Padding Condenser Kit... \$0.73
 A5776. 3 Gang 3 Position Switch... 1.18

BEST FREQUENCY OSCILLATORS

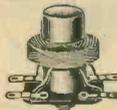
Especially designed units for use in incorporating beat-frequency oscillators in all-wave or short-wave receivers not already so equipped. Will provide "beat-note" tuning for locating weak signals, or for code reception. Can size, 1 1/4" square x 3 1/2". With pitch control knob on top. Mica-insulated trimmer.



A5773. 175 KC. NET \$1.03
 A5818. 456 KC. EACH
 A5774. 1500 KC. EACH

OSCILLATORS

Compact, thoroughly impregnated oscillator coils particularly designed for use with Pentagrid tubes. Exceptionally easy to mount. Each unit has bakelite base with lug terminals. Designed for use with 365 mmf. TRF type variable condenser and a padder. Coils are duo-lateral wound to minimize distributed capacity. Wax-impregnated; moisture-proof.



UNSHIELDED TYPE
 A5820. 175 KC. Use 900 mmf. padder.
 A5821. 456 KC. Use 350 mmf. padder.
 NET EACH..... **38¢**

SHIELDED TYPE
 A5822. 175 KC. Use 900 mmf. padder.
 A5823. 456 KC. Use 350 mmf. padder.
 NET EACH..... **56¢**

KNIGHT COILS

STANDARD I.F. TRANSFORMERS

Standard high-gain IF transformers of superior design. Ideal for replacements and new set building. Lattice-wound primary and secondary tuned by mica-insulated compression type condensers from top of can. RMA color-coded leads. Aluminum cans measure 1 1/4" square and 3 1/2" high.



Freq.	Input No.	Interstage No.	Output No.
175 KC	A5835	A5838	A5841
262 KC	A5836	A5839	A5842
456 KC	A5837	A5840	A5843

NET EACH..... **59¢**
 10 FOR..... **\$5.50**

CENTER-TAPPED OUTPUTS

A5783. 175 KC. NET \$9.95
 A5784. 456 KC. EACH..... **59¢**

KNIGHT IRON-CORE I.F. 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 1 1/4"x1 1/4"x3 1/2". Mounting centers, 1 1/4". Supplied with standard RMA color-coded leads.



Freq.	Input No.	Output No.
175 KC	A4983	A4986
456 KC	A4984	A4987
1500 KC	A4985	A4988

NET EACH..... **98¢**

HIGH GAIN T.R.F. COILS

Bank-wound with Litz wire, permitting unusual sensitivity and uniform gain over entire wave band. Round shielding can 2 1/4" high, 1 1/4" diameter. Use with 370 mmf. condenser. Covers 1760 to 540 KC. Low Impedance primaries.



FULLY SHIELDED TYPES
 A5844. Antenna Coil. NET \$3.50
 A5845. R.F. Coil. Same size and mounting as above. NET EACH..... **35¢**

A5846. 4 Tube Kit. Contains 1 Ant. Coil and 1 R.F. Coil. NET..... **69¢**

A5847. 5 Tube Kit. Contains 1 Ant. Coil and 2 R.F. Coils. NET..... **\$1.03**

(All kits include schematic diagrams.)

UNSHIELDED TYPES

Similar to coils listed above but not equipped with shield can. Supplied with mounting bracket and dowel with screw and bolt; permits mounting in any desired position. 7/8" diam. by 2 1/4" long.



A5777. Antenna Coil. NET \$2.75
 A5778. R.F. Coil. EACH

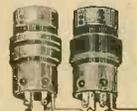
A5779. 4 Tube Kit. Contains 1 Ant. Coil and 1 R.F. Coil. NET..... **53¢**

A5780. 5 Tube Kit. Contains 1 Ant. Coil and 2 R.F. Coils. NET..... **79¢**

(All kits include schematic diagram.)

MIDGET SOLENOID COILS

Extremely efficient midget solenoid type coils, wound with enameled wire on a special tubing 1 1/4" long and 1" 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 1600 KC.



A6590. R.F. Coil. NET \$1.50
 A6591. Antenna Coil. EACH

A6588. Set of 2 Coils. NET..... **29¢**
 A6589. Tapped for 2400 KC. 1-Antenna coil and 1-RF coil. NET..... **35¢**

COILS • COIL FORMS • COIL KITS



MILLER IRON-CORE R.F. COILS

Small size R.F. coils, especially desirable for use in auto or other sets where a high-gain coil of small physical size is required. In aluminum shield cans measuring 1 1/4" diameter and 2" high. For use with 370 mmf. condensers.

A6584. Antenna Coil. } EACH **88c.**
 A6585. R.F. Coil. }
 A5686. Oscillator Coil (465 KC) (Use 400 mmf. pad.) YOUR PRICE. **88c.**

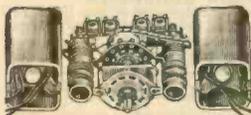


10 K.C. FILTER COIL

For use in the load circuit of a diode or infinite impedance detector, to eliminate 10 KC whistle in wide-range broadcast receivers. Attenuation at 10,000 cycles, approx. 30 db. Size: 1 1/4" square, 2 1/2" long.

A6587. NET. **\$1.32**

SKIP-BAND COIL ASSEMBLY



Will make a sensitive receiver tuning from 5.7 to 18 M.C. and 540 to 1580 K.C. Coil assembly is completely wired and ready to install. Kit contains: 2 band antenna coil and 2 band oscillator coil mounted on a band-change switch; padding condensers, 2—456 KC. IF transformers. Requires a 2 gang 370 mmf. tuning condenser. Diagram is included.

A2707. NET. **\$3.74**

ANTENNA & R.F. COILS



High-gain fully shielded coils; for use with screen grid tubes. High impedance primaries. R.F. coil has primary at 90°. For 370 mmf. condenser. With coupling rings, 1 1/4" dia. 3" high. Tune 540 to 1500 K.C.

A5848. Antenna Coil. EACH **54c.**
 A5849. R.F. Coil. EACH **54c.**



MIDGET UNSHIELDED TRF COILS

These high-gain coils, with high-impedance primaries, are particularly well-suited for TRF and superhet (with correct oscillator coil) circuits. They are designed for use with

370 mmf. tuning condensers. Impregnated coil forms are 3/4" diameter and 1 1/2" long. Coils are wound with high-grade Litz wire. Brackets permit easy mounting. With wiring diagrams.

A5815. Antenna Coil. **12c.**
 A5816. R.F. Coil. EACH **12c.**
 A5817. Set of 2 coils, 1 EACH, PER SET. **19c.**



NOISE SILENCER I.F. TRANSFORMER

A close-coupled IF transformer, single-tuned, with center-tapped secondary, especially designed for use in the popular noise silencer circuits. Mica-tuned; coded leads. With wiring diagram.

A5693. 456 KC. NET. **81c.**



UNSHIELDED PRESELECTOR

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.

A5811. For 365 mmf. **52c.**
 A5803. For 410 mmf. NET. **52c.**



CARTWHEEL I.F. REPLACEMENT COIL

Ideal for replacement in mid-gate sets. Has molded plastic base with 2 trimmers. High-gain coils. For input or output use. Size, 1 1/8" x 1 1/2" x 1 1/4"

high overall. For 456-465 KC. **59c.**
 A5824. NET. **59c.**

PLUG-IN TYPE COILS



Space-wound coils for use with 140 mmf. condensers. Forms are smooth bakelite, 1 1/4" diameter and 2 1/4" high; rim-top.

4 PRONGS — 2 WINDINGS

A5565. Short-Wave Coil Kit. 4 coils cover range from 16 to 217 meters. NET. **85c.**

A5566. Broadcast Coil Kit. 2 coils cover range from 190 to 550 meters. NET. **65c.**

A5567. Ultra Short-Wave Coil. Covers range from 9.5 to 21 meters. NET. **35c.**

6 PRONGS — 3 WINDINGS

A5568. Short-Wave Coil Kit. Primary, secondary and tickler windings. Cover 16 to 200 meters. 4 coils in kit. NET. **\$1.35**

A5569. Broadcast Coil Kit. 2 coils cover 190 to 550 meters. NET. **85c.**

A5570. Ultra Short-Wave Coil. Covers 9.5 to 21 meters. NET. **38c.**

BAND-SPREAD COILS

5 prong coils with band-setting condenser mounted on top. For use with 140 mmf. condenser. Complete with ceramic base.

No.	Meters	Range-MC	NET EACH
A1920	20	14.0-14.4	45c.
A1921	40	7.0- 7.3	
A1922	80	3.5- 4.0	
A1923	160	1.7- 2.0	
A1924	Kit of 4 coils.		

BAKELITE RIBBED TYPE



1 1/4" diameter and 2 1/4" high; molded ribs for low-loss winding; rim handles. Uniform windings for use with 140 mmf. condenser.

4 PRONGS — 2 WINDINGS

A5574. Short Wave Coil Kit. Set of four coils covers 16 to 217 meters. Grid and tickler windings. NET. **\$1.18**

A5575. Broadcast Coil Kit. 2 coils cover 190 to 550 meters. NET. **94c.**

A5576. Ultra Short-Wave Coil. Covers 9.5 to 21 meters. NET. **45c.**

BAKELITE COIL FORMS

RIM TYPE



Low-loss, with high dielectric strength. Molded rim handle for easy grip. 1 1/4" dia., 2 1/4" high.

No.	Prongs	NET EACH
A1930	4	10c.
A1931	5	
A1932	6	18c.
A1934	8	
A1935	8S	

SMALL RIBBED TYPE



Genuine molded bakelite; 1 1/4" diameter, 2 1/4" high. Have molded ribs for low-loss winding.

No.	Prongs	NET EACH
A5577	4	12c.
A5578	5	
A5579	6	

LARGE RIBBED TYPE



Large ribbed coil forms of molded bakelite for winding low-loss coils. 1 1/2" diameter with 2 1/2" winding space. Have molded rim at top.

No.	Prongs	NET EACH
A2695	4	17c.
A2696	5	
A2697	6	

A5662 7 Prong. SPECIAL... 7c

PHONO OSCILLATOR TYPE COIL



For constructing either a "wireless" or a direct-connected phono oscillator. Tunes entire broadcast band. Coil thoroughly impregnated. Black crackle-finished shield can, 1 1/2" x 1 1/2" x 3 1/2". With instructions and diagram.

A5814. NET. **\$1.45**



REPLACEMENT MAJESTIC I.F. TRANSFORMER COILS

Will fit in original Majestic shield cans without change. Well-constructed. Thoroughly impregnated; moisture-proof. Wound of double-coated enameled wire on paper tubing. Coils are supplied less tuning condenser and can.

Cat. No.	Majestic Part No.	Model	EACH NET
A7150	4428	15, 15B, 150	\$0.30
A7151	8384	15, 15B, 150	.34
A7154	6506	55	.37
A7158	6250	200	.36
A7160	6119	210	.37
A7161	6123	210	.37
A7162	6127	210	.36
A7163	7812	390, 310, 330	.41
A7168	10149	460	.36
A7169	10253	460, 800	.40
A7169	11014	800	.40
A7175	7187	Primary coil used as RF plate coil in Models 290, 300, 310, 330, 460, 520 and 800.	.37

COIL ASSEMBLIES IN CANS

Cat. No.	Part No.	Model	EACH NET
A7180	4428	15, 15B, 150	\$1.24
A7191	8384	15, 15B, 150	.78
A7192	10149	460	.79
A7195	3908	20	1.45
A7196	3907	20	1.49
A7197	4439	60	1.59

WE CAN SUPPLY exact duplicate, or adequate 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 positive contact at all times.

TAPPED FOR SHORT WAVE

Both the three circuit tuner and the R.F. coil are tapped for short wave as well as standard broadcast reception.

A1704. Tuner. NET. **78c.**
 A1705. R. F. Coil to match Tuner. NET. **34c.**

BAND-SWITCHING COILS



Covers from 16 to 550 meters. Two or more units may be conveniently ganged. Has 4 prong base for easy mounting. Complete with pointer knob, dial plate and diagrams. For 140 mmf. condenser.

A5661. NET. **\$2.65**

REPLACEMENT PRIMARY WINDINGS

High-impedance replacement type primary windings. Permit repairs to be made with a minimum of expense and time. Antenna inductance, 1.7 MH.; R.F. Inductance, 3.5 MH.

Cat. No.	Inside Dia.	Type	Cat. No.	Inside Dia.	Type
A2971	3/8"	ANT.	A2976	1 1/4"	ANT.
A2972	1/2"	R.F.	A2977	1 1/4"	ANT.
A2973	1/2"	ANT.	A2978	1 1/4"	R.F.
A2974	3/4"	R.F.	A2979	1 1/4"	ANT.
A2975	3/4"	ANT.	A2980	1 1/4"	ANT.

NET EACH. **15c.**

VARIABLE CONDENSERS & CHOKES

USL MIDGET CONDENSERS



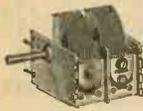
A small, well-built condenser, ideal for Short Wave use. $\frac{1}{4}$ " shaft extends $\frac{1}{4}$ " from front of condenser. $\frac{3}{8}$ " bushing allows rigid mounting on panels up to $\frac{1}{4}$ " thick. Single hole mount; fits $\frac{3}{8}$ " hole. Size with plates open, $\frac{1}{4}$ " x $1\frac{1}{2}$ ".

No.	Plates	Min. Mmf.	Max. Mmf.	NET
A4125	3	3	15	35c
A4126	5	4	30	38c
A4127	7	4	45	41c
A4128	9	6	60	44c
A4132	12	7	80	47c
A4129	13	8	100	48c
A4130	20	8	140	57c

DOUBLE-SPACED MIDGETS

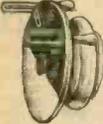
A4123	11	6	35	58c
A4124	14	7	50	79c

MANUFACTURER'S TYPE 2-GANG CONDENSER



410 mmfd. max. capacity. Has trimmers; $\frac{1}{4}$ " shaft. $2\frac{1}{2}$ " x $3\frac{1}{2}$ " x $1\frac{1}{2}$ ". Wt. .21lb. NET. **29c**

RADIO FREQUENCY CHOKES AIR-CORE



Compact, silk covered wire, R.F. chokes. High impedance, lattice-wound type. Thoroughly impregnated for trouble-free service. Shielded or unshielded.



Unshielded		MH	Shielded	
A5605		2 1/2	A5613	
A5628*		2 1/2	A5614	
A5606	18c	5 1/2	EACH	27c
A5608		8	A5616	
A5621		10	A5629	
A5609	24c	16	A5617	33c
A5610	30c	30	A5618	42c
A5611		60	A5619	
A5612	38c	80	A5620	
A5622*	29c	80	NET	47c

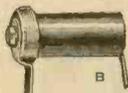
*Polarized section winding construction.



New High-Q RF chokes; may be used in place of air-core chokes for higher efficiency. Iron core reduces number of turns thus lowering distributed capacity.

No.	MH	NET	No.	MH	NET
A5785	2 1/2	34c	A5789	30	48c
A5786	3 1/2	34c	A5790	60	57c
A5787	5	37c	A5791	80	65c
A5788	5 1/2	43c	A5792	125	85c

MEISSNER "ALIGNAIRE" ALIGNING CONDENSERS

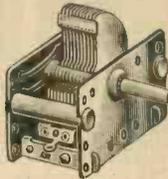


3600° of micrometer tuning. Air dielectric and ceramic insulation. Dust- and moisture-proof. Metal case, $\frac{3}{8}$ " diameter; $1\frac{1}{2}$ " long. A5757. Fig. A, 5-25 mmf. NET. **53c**
 A5758. Fig. A, 25-50 mmf. NET. **59c**
 A5759. Fig. A, 40-100 mmf. NET. **73c**
 A5760. Fig. B. A small compact trimmer similar to above but with bakelite body. $\frac{3}{8}$ " diameter by $1\frac{1}{4}$ " long. NET. **21c**

KNIGHT COMPACT PRECISION CONDENSERS

SINGLE TYPE

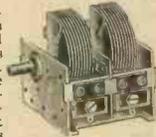
General-purpose compact single unit condensers. Low-loss bakelite insulation. Measure $3\frac{1}{4}$ " x $1\frac{1}{4}$ ". $1\frac{1}{2}$ " deep. $\frac{1}{4}$ " x $1\frac{1}{2}$ " shaft. Very rigid, sturdy construction throughout. Capacity increases clockwise. Supplied less trimmers.



A4115	100 MMF.	NET EACH
A4116	140 MMF.	72c
A4114	240 MMF.	
A4117	370 MMF.	
A4118	450 MMF.	
A4121	.0005 MFD. A popular type used extensively in Short-Wave and All-Wave set building. NET. 75c	

370 MMF. GANG CONDENSERS

New, easy-to-mount compact condenser assemblies of superior design and construction. Trimmers mounted on both sides. Plates slotted for accurate alignment. Maximum capacity, 370 mmf. Clockwise rotation. $\frac{1}{4}$ " shaft extends $1\frac{1}{2}$ ". End shields measure $2\frac{1}{2}$ " x $1\frac{1}{4}$ ". Can be used as tuning condensers in radio magazine set-builders kits.



A4141	85c	A4143	1.29
2 Gang		3 Gang	

140 MMF. GANG CONDENSERS

Compact Short-Wave gang condensers. Ball-bearing pivots. Trimmers may be mounted on either side or removed. $3\frac{1}{4}$ " x $1\frac{1}{4}$ " end measurements. Suited for use in Short-Wave receivers, either as original or replacement condensers.

A4119	95c	A4120	1.45
2 Gang		3 Gang	

SHAFT FITTINGS

For Every Purpose



Split Bushing Coupling Extender

COUPLINGS and EXTENSION
 Couplings are for extending shafts of volume controls, condensers, etc., or for ganging single units, even when shafts are not of same diameter. Extenders are for decreasing or increasing shaft diameter and for extending shaft length.

Size	Kind	Stock No.	
		Insulated	Brass
$\frac{1}{4}$ " x $\frac{1}{4}$ "	Coupling	A4570	A4576
$\frac{1}{4}$ " x $\frac{1}{2}$ "	Coupling	A4571	A4577
$\frac{1}{4}$ " x $\frac{3}{4}$ "	Coupling	A4572	A4578
$\frac{1}{4}$ " to $\frac{1}{4}$ "	Ext.	A4573	A4579
$\frac{1}{4}$ " to $\frac{1}{2}$ "	Ext.	A4574	A4580
$\frac{1}{4}$ " to $\frac{3}{4}$ "	Ext.	A4575	A4581
Assorted Per 10	Assorted Per 100	NET EACH	9c
85c	\$8.25		

BRASS AND FIBRE SHAFTING

For extensions or replacements. $\frac{1}{4}$ " dia. A4582. Brass. 6" long. EACH. **9c**
 A4583. Brass. 12" long. EACH. **18c**
 A4584. Fibre. 6" long. EACH. **9c**
 A4585. Fibre. 12" long. EACH. **18c**

SPLIT BUSHING

For increasing shaft diameter from $\frac{1}{4}$ " to $\frac{3}{8}$ ". Brass, $\frac{1}{4}$ " I.D. - $\frac{3}{8}$ " O.D. - $\frac{1}{2}$ " long. A4586. Per 10, 35c. EACH. **5c**

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 UHF equipment. Made of brass. Takes panels up to $\frac{3}{8}$ " thick. For $\frac{1}{4}$ " shafts. Keep these assemblies on hand for emergencies.
 A5727. Overall length 3". NET. **18c**
 A5728. Overall length 6". NET. **24c**
 A5729. Bearing only. NET. **9c**



UNIVERSAL GANG CONDENSERS

A condenser of truly universal application. Has $\frac{1}{4}$ " shaft extending out from both ends. Clockwise or counter-clockwise application in a single unit; solid construction; front and rear ball-race bearings; high end plates; high-grade bakelite insulation; rotor grounding springs for each section. Easy ganging of 2 or more, 2 or 3 gang units permits obtaining 4, 5, 6 or more sections. Either end may be used as front. Slotted end plates. Trimmers may be placed on either side. $\frac{1}{4}$ " shaft can be increased to $\frac{3}{8}$ " by using A4586 bushing. Available in two or three gang type. Priced attractively low, these are exceptional condenser values.



2 GANG CONDENSER

Each section has a max. cap. of 370 MMF. Holes at front, rear and bottom for mounting. End plates $2\frac{1}{4}$ " x $3\frac{3}{8}$ ". Wt. 2 lbs. **\$121**
 A4134. YOUR PRICE.

3 GANG CONDENSER

Identical to above except that it has three 370 MMF sections. End shields: $2\frac{3}{4}$ " x $3\frac{3}{8}$ ". Shpg. wt., 3 lbs. An exceptional value. **\$1.81**
 A4137. YOUR PRICE.

MEISSNER CONDENSERS

These precision-built three-gang variable condensers are rigidly constructed to give the very highest quality performance possible. Counter-clockwise rotation increases the capacity. Average shipping weight is 3 lbs. Made available in the most popular capacities.

3-GANG CONDENSERS

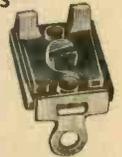
A5763. 365 MMF. With trimmers **\$2.35**
 A5764. 365 MMF. Less trimmers. **2.22**
 A5765. 410 MMF. Less trimmers. **2.22**
 A5766. 450 MMF. Less trimmers. **2.26**
 A6633. 280 MMF. Less trimmers. Electrical bandsp. type. Ceramic insulation. Shpg. wt., 4 1/2 lbs. NET. **\$4.41**

4-GANG CONDENSERS

A6684. 365 MMF. With trimmers. Clockwise rotation increases capacity. Shpg. wt., 4 1/2 lbs. NET. **\$2.94**

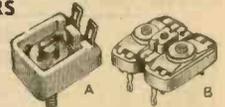
TRIMMER CONDENSERS

A new small-size trimmer condenser, ideal for balancing, trimming, neutralizing, antenna coupling, etc. Of sturdy construction on low-loss bakelite base measuring $\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{4}$ ". Full-plate type, with high grade mica dielectric, 3-30 mmf. Will mount inside coil form. **6c**
 A2949. NET EACH. **50c**
 LOTS OF 10. **50c**
 A2947. Ceramic Type. Has porcelain base instead of bakelite. Low-loss. Measures $\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{4}$ ". NET. **8c**



TRIMMER AND PADDING CONDENSERS

For HF, IF, and Oscillator circuits. First quality, mica-insulated; isolantite base. Screw-driver adjustment. May be shunted by fixed mica condensers to increase maximum capacity. Solder lug type connectors. A is single type; B is double trimmer.



TYPE A					
No.	MMF.	NET	No.	MMF.	NET
A6670	25-100	14c	A6675	275- 825	27c
A6671	75-225	16c	A6676	325-1000	29c
A6672	125-350	19c	A6677	400-1200	31c
A6673	175-500	20c	A6678	500-1400	34c
A6674	225-650	23c	A6679	600-1600	37c
			A6680	700-1800	39c

TYPE B					
No.	MMF.	NET	No.	MMF.	NET
A6490	20-90	14c	A6494	200-600	30c
A6491	50-180	16c	A6495	300-675	33c
A6492	100-300	19c	A6496	325-850	38c
A6493	170-410	27c			

CONDENSER COUPLING

Insulated, bakelite flexible shaft coupling. Permits tandem operation of condensers, etc. For $\frac{1}{4}$ " shafts. **\$1.49**. NET. **21c**



TUNING DIALS • PILOT LIGHTS



EVEREADY MAZDA PILOT LIGHT BULBS

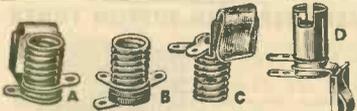
Genuine Eveready Mazda pilot light bulbs. Famous for quality. These lamps are made to operate on the voltages indicated. Excellent for all pilot lamp requirements. Will give long service in standard sets and devices.

STOCK No.	Lamp No.	Volts	Amps.	PRICE EACH	PER 10
A12555	41	2.5	.50	9c	\$0.54
A12556	43*	2.5	.50	10c	.59
A12557	42	3-2	.35	12c	.71
A12558	40	6-8	.15	10c	.59
A12559	30†	6-8	.20	10c	.59
A12560	51**	6-8	1.0	7c	.41
A12561	47	6-8	.40	7c	.41
A12562	48	2.0	.06	15c	.88
A12563	49*	2.0	.06	15c	.88
A12564	44*	6-8	.25	9c	.54
A12565	46	6-8	.25	9c	.54

*Indicates miniature bayonet base.
†Indicates small round bulb.

BULB FOR RCA-VICTOR R-32

S11. A special 10 watt bulb designed for the RCA-VICTOR R-32. For operation on 115 Volts. **A6449. NET EACH... 15c**



PILOT LIGHT SOCKETS

Miniature base pilot light sockets for all radio requirements. Highest quality construction. With special timed lugs for easy soldering. Spring contact in the socket holds lamp firmly in place. Bulbs not included.

A6380. Type A.
A6381. Type B.
A6382. Type C.
A6378. Type D. Bayonet Shell Type.
A6379. Similar to type D, but mounting clip reversed.
10 for 40c. 100 for \$3.50. EACH... 5c

1/2" JEWELLED BRACKETS

Visual indicators for use on power amplifiers, relay racks, etc. Socket takes regular pilot light bulbs. Single hole mounting. Shows definitely when your equipment is "on." With jewel.

Miniature Base No.	Bayonet Base No.	Color	NET EACH
A6388	A6387	Red	10c
A6389	A6383	Green	
A6390	A6391	Amber	

JEWELS FOR PILOT LIGHTS

Attractive colored jewels for panel use. Require 1/2" hole. 1/16" thread shank. 1/8" long.
A6384. Red. A6386. Amber.
A6385. Green. NET EACH... **7c**

1" JEWEL BRACKET

For transmitters, test equipment, etc. Standard bulb replaceable from front. 1 1/2" long; requires 1" hole for mounting.

Bayonet	Miniature	Color	EACH
A6300	A6297	Red	54c
A6301	A6298	Green	
A6302	A6299	Amber	

1/2 INCH JEWEL BRACKET

A6294. Red. A6296. Amber.
A6295. Green. NET EACH... **24c**

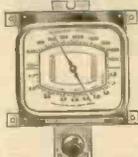
DRAKE 3/4" BRACKET

Mounts in 1 1/8" hole. Lamp replaceable from front. Chrome bezel.

Bayonet	Miniature	Color	EACH
A6040	A6043	Red	53c
A6041	A6044	Green	
A6042	A6045	Amber	
A6046	A6046	Socket. Clear for 1/4 watt Neon bulb. NET	

VALUES IN MODERN DIALS

4-INCH ULTRA-MODERN RADIO DIAL



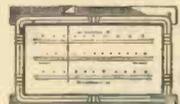
Airplane type dial with black figures on gold foil. Scale. 4 1/2" x 3 3/4" Calibrated 550 to 1600 KC and 4.3 to 1.6 M.C. Ratio, 12 to 1. Bronze escutcheon. Particularly suited for use with 365 and 420 mmfd. condensers. For 3/8" or 1/4" shaft. Less knob. A very accurate dial at an

unusually low price. **A4732. NET... 99c**



1 1/8" LONG SLIDE-RULE

Beautiful new, giant type Slide-Rule dial. 1 1/8" long, 5 1/4" wide overall. Requires 3 1/2" x 9 3/8" opening in panel. 4 band calibrations, 55 to 150, 100 to 1000, 150 to 55. Easy-to-read numerals on gold. For 3/8" or 1/4" shaft. Drive ratio is 20 to 1. With non-breakable escutcheon and 2 pilot light sockets. Shpg. wt., 3 lbs. A giant Slide-Rule Dial of unusual accuracy. **A4185. NET... \$3.82**



9 1/4" LONG SLIDE-RULE

A fine value in a new Slide-Rule dial. 9 1/4" long x 5 1/4" wide overall. Requires 4 1/2" x 8 1/4" opening. Universal scale calibrated in KC and MC. 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. **A4184. NET... \$2.65**



3/4 INCH MODERNISTIC DIAL

An attractive square type airplane dial with bronze escutcheon. Positive non-slip drive. For 3/8" shaft, but also supplied with 1/4" to 1/2" reducer. Tuning ratio of 10-1. Universal scale for use with any clockwise or counter-clockwise condenser. Complete with two pilot light brackets. Shpg. wt., 1 lb. **A4180. NET... \$1.05**



KURZ-KASCH VERNIER DIALS

A durable and attractive dial always popular with builders and experimenters. Made of black bakelite. Universal scale reads 0-100-0. Has smooth, positive friction-drive action; no backlash. Available in two sizes, both to fit 1/4" shaft. Ideal for all equipment. 4-inch dial has tuning ratio of 13 to 1; 3-inch size has 9 to 1 ratio. A fine value in a low-cost highly-efficient radio dial. **A6201. 4" Diameter. NET... 45c**
A6200. 3" Diameter. NET... 38c



MOLDED DIALS

Attractive black bakelite dials with large calibrations in white. Easy-grip 2" knob on 3" dials. 2 3/8" knob on 4" dials. All types listed below fit 1/4" shafts. Excellent dial values.

3 INCH DIALS	4 INCH DIALS
A4196. 0-100.	A4198. 0-100.
A4197. 100-0.	A4199. 100-0.
NET EACH... 23c	NET EACH... 26c

110 VOLT PILOT LIGHT



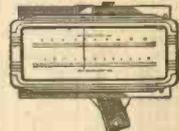
1" pilot light assembly. Candelabra socket. Bulb removable from front. Chrome-finished. Less bulb. **A6462. Red. A6464. Amber. A6463. Green. NET EACH... 54c**
A6465. 110 Volt Mazda Bulb for above 15c

KNIGHT-CROWE SLIDE-RULE 4" RADIO DIAL



Beautiful Cro-Art Slide-Rule Dial of modern design with black figures on bronze foil. Two bands, 550 to 1700 KC and 5.2 to 16 MC. For 180° condenser rotation. Direct drive. Has a 3/8" diameter shaft on the pulley hub for mounting of tuning knob. Requires panel opening 1 1/2" x 3 3/4". With attractive bronze escutcheon having non-breakable crystal. Pilot light socket included. **A4189. NET... 95c**

6 3/4" LONG SLIDE-RULE



Attractive, new dial, 6 3/4" by 3 1/2". Universal scale on gold face. 12 to 1 ratio drive. With escutcheon and pilot light socket. Universal scale on gold face. Fits either 3/8" or 1/4" shafts. Requires panel opening 2 3/8" x 5 3/8". Shpg. wt., 2 lbs. **A4183 NET... \$2.06**

MIDGET SLIDE-RULE



Compact new dial, only 4 3/4" x 2 3/4" overall. Panel opening required, 1 1/4" x 3 1/4". Universal scale; 8 to 1 drive ratio. Fits 3/8" or 1/4" shaft. With escutcheon and 2 light sockets. Wt., 2 lbs. An attractive and popular building dial. **A4179. NET... \$1.62**

2 3/8 INCH AIRPLANE DIAL



A friction-drive dial with a tuning ratio of 6 to 1. Dual translucent dial calibrated with a universal scale. 0-100 and 100-0. With escutcheon, glass bezel and pilot light socket. Fits 3/8" shaft. **A4175. NET... 68c**

3 1/8 INCH AIRPLANE DIAL



Positive-action, smooth-tuning dial. Dual translucent universal scale with glass bezel. Tuning ratio 6 to 1. Pointer travels with condenser. Has bushing to fit 3/8" or 1/4" shafts. With pilot light socket and escutcheon. **A4182. NET... 83c**

4 INCH AIRPLANE DIAL



A high quality translucent dial with universal scale. Positive friction drive. Tuning ratio 9 to 1. Dial pointer travels with condenser. Will fit 3/8" shaft. With two pilot light sockets, escutcheon plate and bushing for 1/4" shafts. **A4181. NET... \$1.05**

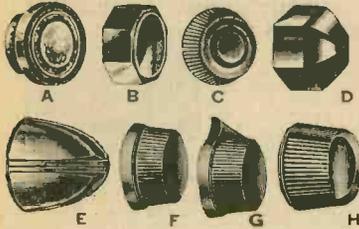
5 1/8 INCH AIRPLANE DIAL



A large handsome dial with glass-protected pyramid face. Two scales, 0-100 and 100-0 for clockwise or counter-clockwise condensers. Dual pointers; 10-1 tuning ratio. For 3/8" shaft with split bushing for 1/4" shafts. Wt., 2 lbs. An excellent dial value. **A4177. NET... \$1.39**

TUNING KNOBS and DIALS

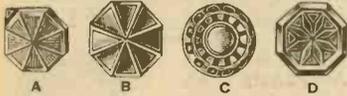
FINE BAKELITE KNOBS



Durable bakelite molded knobs. Fit 1/4" shafts. All have set screws except Type "C", which is push-on type. Type "G" has pointer. Types B, D, F, and H are especially adaptable as midget set knob replacements. Knobs marked * are for knurled shaft.

Cat. No.	Fig.	Diam.	Color	NET Each	10 FOR
A6206	A	1 1/8"	Walnut		
A6207	A	1 3/8"	Walnut	6c	45c
A6209	B	1 3/8"	Walnut		
A6210	B	1 7/8"	Walnut		
A2917	D	1 3/8"	Walnut		
A6160	E	1 3/8"	Black		
A6170*	E	1 3/8"	Black	5c	40c
A6161	E	1 3/8"	Walnut		
A6172*	E	1 3/8"	Walnut		
A6162	E	1 3/8"	Ivory	6c	45c
A6174*	E	1 3/8"	Ivory		
A6163	F	1 1/8"	Black	5c	40c
A6164	F	1 1/8"	Walnut	6c	45c
A6165	F	1 1/8"	Black		
A6166	G	1 1/8"	Black		
A6167	G	1 1/8"	Walnut	5c	45c
A6168	H	1 1/8"	Black		
A6169	H	1 1/8"	Walnut		
A2914	C	1 3/8"	Black	4c	30c

MODERNISTIC TYPES



All have set screws and will fit 1/4 inch shafts. For use with midget sets. All are walnut-colored and beautifully made.

No.	Type	Diam.	EACH	10 FOR
A6202	A	1 1/8"		
A6203	B	1 1/8"		
A6204	C	1 1/8"	6c	45c
A6205	D	1 1/8"		

POINTER KNOB



Black 1 1/4" bakelite knob. Arrow engraved on face. Fits 1/4" shaft.
A6208. 10 FOR 40c. NET EACH 5c.

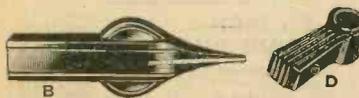
FINGER-GRIP BAKELITE KNOB



A fluted black bakelite knob for single finger rotation. Highly polished. Dia. 1 1/4". 1/4" shaft. Set screw type.
A6155. 10 FOR 75c. NET EACH 10c.

STREAMLINED BAR KNOBS

Modern black knobs for test instruments, amplifiers, etc. White engraved pointers (except Fig. D). Fit 1/4" shafts. Recessed set screws.



Cat. No.	Fig.	Size	NET EACH	10 FOR
A6171	B	1 1/4"	4c	35c
A3760	D	1 1/4"	5c	40c
A3762	D	1 1/2"	8c	75c
A6161	A	1 1/2"	6c	60c
A6173	A	2 1/4"	7c	50c

GENUINE WOOD KNOBS



Attractive in design and finish. For 1/4-inch shafts. All have sure-grip feature. Brass bushing inset; side set-screw. Knobs marked * are of maple; all others are of walnut.

No.	Fig.	Width	No.	Fig.	Width
A3765	A	3/4"	A3770*	B	1"
A3766*	B	3/4"	A3771	C	1"
A3767	B	3/4"	A3772†	C	1"
NET EACH 8c			A3763	D	1 1/2"
10 FOR 70c			A3764	D	1 1/2"
A3768	A	1"	NET EACH 8c		
A3769	A	1 1/4"	10 FOR 70c		
NET EACH 9c			†With plain top.		
10 FOR 76c					

POPULAR-BAKELITE KNOBS

"A" — octagonal knob. "B" — knob with two-tone effect. Both brown; take 1/4" shaft.
A6134. Fig. A. 1/4" dia.; 1/2" thick.
A6135. Fig. B. 1" dia.; 3/4" thick.
10 FOR 35c. 25 FOR 75c. NET EACH 4c.

METAL NAME PLATES



A2885. See page 166 for complete listing of markings available. EACH 6c

METAL DIAL PLATES

Attractive black dial plates with etched aluminum figures. For amplifier panels, etc. 2 1/4" high x 1 1/2" wide. For 300° rotation.
A4100. "Record" 0-10.
A4101. "Microphone." 0-10.
A4102. "Gain." 0-10.
A4103. "Tone." 0-10.
A4104. "Master Gain." 0-10.
A4105. Plain. 0-10. NET EACH 12c

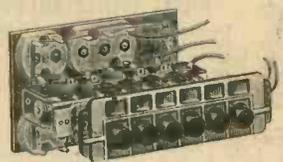


DELUXE BRASS DIAL PLATES

New type dial plate with single hole mounting. Beautiful brown enameled brass plate with Butter process finish; chrome-plated, etched numerals. Recessed mounting hole, 3/8" dia.
A5187. Plain 0-10.
A5188. Microphone 1.
A5189. Microphone 2.
A5190. Microphone 3.
A5191. Microphone 4.
A5192. Phonograph.
A5193. Dual Phonograph.
A5194. Micro-Phono.
A5195. Bass.
A5196. Treble.
A5197. Bass-Treble.
A5198. AVS-AVE.
A5199. Master. NET EACH 12c



PUSH-BUTTON TUNERS



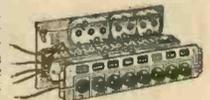
KNIGHT SELECT-O-MATIC TUNING UNITS

Suitable for any T.R.F. or Superhet, A.C. or D.C. Uses special low-drift mica-insulated trimmer condensers. Supplied completely wired — ready to install. Includes handsome escutcheon, knobs, station call-letter sheets, and complete instructions. Six-button model tunes five stations automatically; eight-button model covers seven stations. Size: 2 1/4" x 4 1/4" x 2 3/4". Shpg. wt., 5 lbs.

A5755. 6 Buttons. Five station buttons; sixth button is release. NET \$2.35
A5756. 8 Buttons. Seven station buttons; eighth button is release. NET \$3.40

MEISSNER PUSH-BUTTON TUNER

Push-button tuning for any TRF or Superhet A.C. or D.C. set. Seven buttons provide automatic tuning of any seven stations; eighth button is release for manual tuning. Requires only setting of trimmer condensers. Dimensions: 6" x 2 1/4" x 4 1/2". Complete with escutcheon, station call-letters, mounting hardware, and instructions. \$4.41
A5752. NET



DIAL DRIVE RUBBERS

Box of 24 assorted dial-drive friction rubbers in eight different types. Used in such sets as RCA, Atwater Kent, Stewart Warner, etc.
A6107. NET 84c



NON-SLIP DIAL COMPOUND

Specially made for aiding in repair of friction and cord driven dials. Prevents slipping. Comes in powder form and is easy to apply to slipping parts. This compound will save you time and money over and over again in dial repair work.
A6109. NET 18c



BRAIDED SILK DIAL CORD

Durable dial cable of pure braided silk, with water-proof finish.
A6080 5 ft. \$0.22
A6081 25 ft. .80
A6082 50 ft. 1.50
A6083 100 ft. 2.75



PHOSPHOR BRONZE DIAL CABLE

The 42 Strand Cable is made up of 6 individual cables each consisting of 7 strands of the finest grade of phosphor bronze wire, around central linen core. The 16 Braided Cable is made up of 16 strands of fine bronze wire woven together. Minimum stretch.

42 STRANDED			16 BRAIDED		
	NET			NET	
A6070	5 ft.	\$0.20	A6074	5 ft.	6c
A6071	25 ft.	.74	A6075	25 ft.	22c
A6072	50 ft.	1.39	A6076	50 ft.	36c
A6073	100 ft.	2.50	A6077	100 ft.	54c

EXACT DUPLICATE DRIVE CABLE-BANDS-BELTS

Exact duplicates of the originals in size, material, and design. We can supply any type of cable, band or belt on special order. Send in old dial cable, or state make and model of set. We will supply the proper replacement promptly at the very lowest price.

Stock No.	Model	NET	Stock No.	Model	NET	Stock No.	Model	NET
A6085	30.	15c	A6104	S14, 21, 31.	15c	A6096	No. 2-70.	
A6086	32.	24c	A6105	15, 22 Front.	24c	A6097	52, 60.	9c
A6087	35, 37.	5c	A6106	15, 22 Rear.	24c	A6103	180.	13c
A6088	44.	24c		Crosley		A6098	All.	13c
A6089	46.	15c	A6093	40s, 60s, 804.	18c		Philco	
A6090	55.	15c	A6094	601, 602, 607.	21c		RCA	
				Majestic		A6100	16, 17, 18, 33.	15c
			A6092	No. 1-70.		A6101	80, 82, 86.	21c
				71, 72.	9c			

INSTRUMENT DIALS AND KNOBS

INSTRUMENT DIALS



Chrome silver dials with grained satin finish and engraved black numerals and calibrations. Ideal for dressing up transmitters, test equipment, etc. Heavy black knob offers a real grip. For 1/4 inch shaft. Read 0-100 in choice of either 325 or 180 degrees rotation. Complete with vernier marker.

2 1/4 INCH DIALS **4 INCH DIALS**
 A5733. 325 degrees. A5735. 325 degrees.
 A5734. 180 degrees. A5736. 180 degrees.
 NET NET
 EACH EACH \$1.03



DIAL PLATES WITH KNOBS

Handsome, professional dial plates finished in silver-grain satin with calibrations neatly engraved in black. Calibrated 0 to 100. Fluted finger grip pointer knob fits 1/4" shafts. 325° style ideal for volume

controls, on amplifiers, modulators, etc.

2-INCH DIAL PLATES
 A5670. 180 Degrees. A5671. 325 Degrees. NET EACH **52c**
3 1/2-INCH DIAL PLATES
 A5672. 180 Degrees. A5673. 325 Degrees. NET EACH **71c**
4-INCH DIAL PLATES
 A5674. 180 Degrees. A5675. 325 Degrees. NET EACH **91c**

DIAL PLATES ONLY (LESS KNOB)

180 Degrees		325 Degrees	
No.	Dia. NET	No.	Dia. NET
A5741	2" 27c	A5744	2" 27c
A5742	3 1/2" 45c	A5745	3 1/2" 45c
A5743	4" 54c	A5746	4" 54c

VERNIER MARKERS

Attractive dial markers for accurate tuning. Chrome silver with satin grain finish. Will dress up your equipment.

No.	Dial Size	Degrees	NET EACH
A5747	2 1/4"	325	15c
A5748	2 1/2"	180	
A5749	3 1/2"	325	
A5752	4"	180	

FLUTED KNOBS



Molded of high quality black bakelite; for 1/4" shaft. Has an attractive, professional appearance. Fluted rim gives positive grip. Supplied with flange, with pointer, or plain.

Fig A. Pointer Type
 A5475. 1 1/4". EACH 23c
 A5476. 1 1/2". EACH 28c
 A5477. 2". EACH 34c

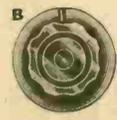
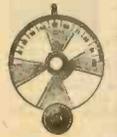


Fig. B. Flange Type
 A5478. 2 1/4". EACH 28c
 A5479. 3". EACH 35c

Fig. A. Less Pointer
 A5480. 1 1/4". EACH 16c
 A5481. 1 1/2". EACH 22c
 A5482. 2". EACH 27c

VERNIER DIAL



Attractive satin silver-finish Vernier Dial for test instruments, receivers, etc. For 1/4" shaft. 5-1 Vernier ratio; friction type drive. Dial plate calibrated 0-100 in 180 degrees. With transparent marker. 2 1/4" dia. NET EACH. **88c**



GEAR REDUCTION UNIT

6 to 1 ratio. For use with any condenser not equipped with reduction gear. Has double-driven gear and anti-backlash spring. 1/4" drive shaft. Vise-grip set screw holds condenser firmly.

A4111. For 1/4" shaft. } EACH **35c**
 A4108. For 3/8" shaft. }

CROWE DIALS AND TUNING UNITS

MODERN DIALS AND KNOBS



Fine appearance and accurate workmanship characterize these knobs and dials. Dial plates are made of anodized black aluminum with calibrations and numbers in contrasting ivory. The knobs are attractively styled and can be had in three attractive colors—red, ivory, and black. Large knob offers sure grip and permits ultra-fine adjustment. Marker mounts on panel and is of vernier type, allowing precise reading to tenths of a subdivision. All knobs fit standard 1/4" shafts. Calibrated 0-100.

4-INCH DIALS Color EACH
 A3700 180 Degree Black }
 A3701 180 Degree Ivory } **\$1.18**
 A3702 180 Degree Red }

2 1/4-INCH DIALS Color EACH
 A3706 180 Degree Black }
 A3707 180 Degree Ivory } **76c**
 A3708 180 Degree Red }

1 1/4-INCH DIALS Color EACH
 A3712 180 Degree Black }
 A3713 180 Degree Ivory } **44c**
 A3714 180 Degree Red }



CROWE GIANT 6-INCH DIAL

A large dial for numerous uses. Particularly suited for test instruments such as Beat-frequency Oscillators, Multi-vibrators, Signal Generators, etc. Easily read. Direct drive. Black anodized dial plate of aluminum with 2 1/2" knob in a choice of three colors—red, ivory, or black. Listed below. Calibrated 0-100 in 180 degrees rotation with contrasting ivory markings. The marker is of the hair-line type and mounts directly on panel. Allows accurate duplication of previously obtained reading.

A3691. Red Knob. EACH
 A3692. Ivory Knob. **\$2.06**
 A3693. Black Knob. EACH

CHANGE-O-NAME DIAL PLATES



These unique dials combine a dial plate with a selective name plate allowing any one of a number of designations to be used. Name on dial easily changed by rotating name plate to desired name plate to desired position. 1 1/2" dial has silver-white figures on anodized black aluminum. Name discs have white letters on red background.

A3694. Calibrated 0-100 in 270° Reads: Fader, Gain, Selectivity, Tone, Volume, Blank.
 A3695. As above, but reads: Master Volume, Micro 1, Micro 2, Radio Volume, Record Volume, Blank.
 A3696. Calibrated 0-100 in 180°. Reads: Amplifier, Antenna, Crystal, Detector, Oscillator, Blank.
 NET EACH **21c**

2 SPEED PLANETARY DRIVE



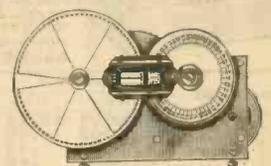
Used as auxiliary speed reducer on many controls. Mounts on condenser back of panel, or on dial knob shaft. Slow ratio 7 to 1; fast ratio 1 to 1. Drive fits any 1/4" diameter shaft. NET **\$1.32**
 A3756. EACH

PLANETARY DRIVE KNOBS



A set of two knobs for use with drive unit listed above. Large knob fits 7/8" high-speed shaft, and small knob fits 1/2" low-speed shaft. Black or walnut finish. NET PER SET **12c**
 A3757. Walnut.
 A3758. Black.

MATHEMATIC PRECISION TUNER



A highly precise type of tuning control for use where fine tuning and accurate logging is required. Suitable for use in the construction of laboratory equipment for schools, colleges, experimental laboratories, etc., as well as precision, custom-built broadcast and communications receivers. May be connected to condenser shaft direct or through a flexible coupling. Takes standard 1/4" shaft set-screw type knob. Ratio of dial movement approximates 72 to 1 in a 360° movement of condenser gear. Gear driven movement with take-ups to prevent backlash. Has two dial scales, the combined reading providing 600 graduations in 180° of tuning condenser rotation. Also suitable for test equipment use. Complete with fly wheel. **\$3.73**
 A3699. NET

MODERN COLORED TUNING KNOBS



A new line of knobs unusually striking in design. Made of Croplastic—a material which lends itself to a highly polished finish. The attractive colors give a professional appearance to test equipment, amplifiers, and receivers. All knobs fit 1/4" shaft; with set screw.

BAR KNOBS

Color	Fig. B	Size	Fig. A	Size
Black	A3650	1 1/2"	A3653	2"
Ivory	A3651	1 1/2"	A3654	2"
Red	A3652	1 1/2"	A3655	2"

NET EACH **9c** NET EACH **11c**

ROUND KNOB—FIG. C

Size	Black	Ivory	Red	NET
5/8"	A3656	A3661	A3666	7c
7/8"	A3657	A3662	A3667	9c
1 1/8"	A3658	A3663	A3668	11c
1 1/2"	A3659	A3664	A3669	15c
2"	A3660	A3665	A3670	26c

ROUND KNOB WITH POINTER—FIG. D

Size	Black	Ivory	Red	NET
7/8"	A3671	A3675	A3679	15c
1 1/8"	A3672	A3676	A3680	17c
1 1/2"	A3673	A3677	A3681	21c
2"	A3674	A3678	A3682	32c

JACK MARKERS

Made of aluminum with background etched dull black. Borders and letters raised and highly polished. Hole dia. 3/16". NET EACH **7c**
 A3685. "Phones."
 A3686. "Microphone."
 A3687. "Mike Cur."
 A3688. "Micrograph."
 A3689. "Plate Cur."
 A3690. "Grid Cur."

AC-DC DIAL PLATES

Graduated tuning dial is marked 0-100. Volume plate has etched arrow. 1 1/2" diameter. Bronze finish. Excellent for compact sets of the AC-DC type. NET EACH **9c**
 A5677. Tuning dial.
 A5678. Volume. # EACH

SWITCH PLATES

Toggle-switch plates, attractively finished with etched aluminum with black background. Diameter, 1 1/4". NET EACH **7c**
 A4106. "Micro-Phono."
 A4107. "Off-On."

RADIO-BUILDERS' SUPPLIES



QUALITY METAL CHASSIS BASES

ALLIED now offers the most complete line of high quality chassis bases available anywhere. Each unit has re-inforced or spot-welded corners for heavy-duty service. All are folded on four sides with the exception of those marked *, which are folded on sides only, with ends open. Ternplate is lead-coated auto-body steel; Cadmium-plated and Black wrinkle-finish bases are also steel. A5288. Volume Control Bracket for any Chassis Base. NET.....3c

Size, Inches	Ternplate		Electralloy		Cadmium-Plated		Wrinkle Finish	
	No.	NET	No.	NET	No.	NET	No.	NET
4 1/2 x 8 1/2 x 1 1/2	A15001	\$0.29	A15020	\$0.71	A15035	\$0.54	A15053	\$0.54
7 x 9 x 2	A15002	.40	A15021	.76	A15036	.58	A15054	.60
7 x 11 x 2	A15003	.45	A15022	.93	A15037	.60	A15055	.60
7 x 12 x 2	A15004	.48	A15023	.99	A15038	.62	A15056	.62
7 x 13 x 2	A15005	.50	A15024	1.05	A15039	.62	A15057	.62
7 x 17 x 3	A15006	.65	A15025	1.23	A15040	.77	A15058	.73
7 x 23 x 3	A15007	.82	A15026	1.25	A15041	.86	A15059	.77
8 x 17 x 2	A15008	.59	A15027	1.25	A15042	.77	A15060	.74
10 x 11 x 2 1/2	A15009	.51	A15028	1.10	A15043	.68	A15061	.66
10 x 12 x 3	A15010	.52	A15029	1.12	A15044	.68	A15062	.66
10 x 14 x 3	A15011	.57	A15030	1.20	A15045	.81	A15063	.81
10 x 17 x 3	A15012	.72	A15031	1.45	A15046	.85	A15064	.85
10 x 23 x 3	A15013	.86	A15032	1.69	A15047	1.08	A15065	1.08
13 x 17 x 3	A15014	.86	A15033	1.72	A15048	1.13	A15066	1.13
12 x 17 x 3	A15015	.86			A15049	1.10	A15067	1.10
10 x 17 x 4	A15016	.75			A15050	1.25	A15068	1.25
13 x 17 x 4	A15017	.92						

CRYSTAL-FINISHED CABINETS



Sturdy steel cabinets with hinged lids. Front and back panels, or bottom, easily removed. Supplied knocked-down. Easily assembled.

No.	Ltgh.	Wth.	Ht.	NET
A15070	9"	5"	6"	\$1.45
A15071	10"	8"	7"	1.85
A15072	10"	8"	10"	2.00
A15073	12"	8"	7"	2.13
A15074	12"	11"	8"	2.43
A15075	14"	8"	7"	2.53
A15076	18"	12"	9"	3.42

PANELS FOR ALL RADIO PURPOSES

Here is a full selection of panels in a variety of sizes and materials for every radio need. Sizes not listed will be cut to order (see prices below). Electralloy and Aluminum panels are 1/8" thick and have natural finish; Hard Rubber and Bakelite panels are 1/8" thick and have polished finish. Finished panels are 1/8" steel with black wrinkle enamel finish; Masonite panels 1/8" thick have smooth black finish resembling bakelite in external appearance.

Size, Inches	Electralloy		Aluminum		Rubber		Bakelite		Finished		Masonite	
	No.	NET	No.	NET	No.	NET	No.	NET	No.	NET	No.	NET
7x10	A15080	\$0.40	A15100	\$0.39	A15114	\$0.69	A15122	\$0.78	A15093	\$0.32	A15135	\$0.26
7x12	A15081	.45	A15101	.49	A15115	.82	A15123	.99	A15094	.38	A15136	.30
7x14	A15082	.53	A15102	.58	A15116	.98	A15124	1.14	A15095	.44	A15137	.34
7x16	A15083	.59	A15103	.70	A15117	1.22	A15125	1.27	A15096	.59	A15138	.38
7x18	A15084	.65	A15104	.78	A15118	1.42	A15126	1.39	A15097	.76	A15139	.43
7x19	A15085	.71	A15105	.83	A15119	1.58	A15127	1.59	A15098	.81	A15140	.44
7x21	A15086	.78	A15106	.93	A15120	1.98	A15128	1.84	A15099	.85	A15141	.48
7x24	A15087	.89	A15107	.94	A15121	2.24	A15129	2.24	A15100	.99	A15142	.52
7x30	A15088	1.10	A15108	1.23	A15130	2.55	A15131	2.55	A15101	1.10	A15143	.54
8x18	A15089	.77	A15109	.89					A15102	1.13	A15144	.47
9x15	A15090	.70	A15110	.82					A15103	1.13	A15145	.46
24x36			A15111	4.55					A15104	1.13	A15146	2.75

Orders for Special Panels must amount to a 75c minimum; Masonite to 50c.

FORM-FITTING TUBE SHIELDS

For ST12 Bulbs

Body consists of two snug-fitting half shields with cap and base assuring perfect fit. A clamp and grounding clip are furnished for the large size bulbs.



A5255. For short tubes with grid caps, as 1A6, 2A7, 3B, 75, 89, etc.

A5256. For short tubes, without grid caps, as 6Y5, 12A5, 27, 30, 31, etc.

A5257. For long tubes with grid caps, as 6C6, 6D6, 57, 58, etc.

A5258. For long tubes without grid caps.

NET EACH.....5c
LOTS OF 10.....45c

For S14 and ST14 Bulbs

A5253. For S14 straight side tubes such as 2A4, 27, 32, etc.

A5254. For ST14 dome-shaped tubes such as 2A4, 32, 35, 2A5, 01A, 26, 45, etc.

NET EACH.....5c
LOTS OF 10.....45c

VENTILATED 3 PIECE SHIELD

For ST12 bulbs, such as 55, 57, 2A7, etc. Made of aluminum; well-ventilated. Shell measures 1 1/4" dia., 3 1/2" high, 4 1/8" high overall. Cap slotted for grid lead.



No. Mfg. Centers EACH
A5260 1 1/2" 9c
A5261 1 1/2" 9c
A5262 1 1/2" 9c

LOTS OF 10.....75c
LOTS OF 100.....\$6.50

BANTAM TYPE TUBE SHIELD

Designed especially for the new 1.4 volt bantam glass tubes or other T-9 bulbs.



A5285. One piece without cap. Grounds automatically.

10 FOR 27c. EACH.....3c

A5286. Same as above but has cap and ground clip.

10 FOR 45c. EACH.....5c

A5287. With grid lead type cap and ground clip.

10 FOR 45c. EACH.....5c

TEST BUZZER BUTTON

Pearl button held in 1/4 in. hole by spring clamps. Has many uses.



A3977. NET.....10c

GRID CAPS



STANDARD

Type A is for standard tubes; Type B is for new metal tubes. Assure easy soldering.

A6334. Type A.

A6335. Type B. EACH...1c

12 FOR.....8c

COMBINATION

Reversible cap designed to fit glass and metal tubes. Have 11" leads with phone tips.

A6328. Red

A6329. Black. EACH 12c

INSULATED

Well-made spring clips. Colored composition insulation. Have 1 1/2 inch wire leads. Will fit all glass tubes. Make sure contact.

Standard For 866 Tube

A6330. Red.

A6331. Black.

Per Doz. 54c

NET EACH...5c

A6332. Red.

A6333. Black.

Per Doz. 81c

NET EACH...9c

METAL TUBE GRID SHIELD

Fits firmly over grid cap of all metal type tubes. Slot provided for grid lead.

A5290. EACH.....4c

Per Dozen.....37c

COIL SHIELDS



Aluminum coil shields with detachable base permitting easy removal of top. Sturdily-built.

A5723. 2 1/2" x 3"

A5724. 2 1/2" x 3 1/2"

10 FOR 98c

NET EACH.....12c

A5715. SPECIAL VALUE.

1 1/2" x 2 1/2" long.

EACH.....3c

10 FOR.....23c

BAKELITE TUBING

High grade smooth polished bakelite tubing. Natural finish. 1/8 inch wall thickness.



No.	Inside Dia.	Per Ft.	Per Inch
A6471	1"	34c	3c
A6472	1 1/2"	45c	4c
A6473	2"	50c	5c
A6474	2 1/2"	58c	6c
A6475	3"	74c	7c
A6476	3 1/2"	80c	8c

PER PINT, EACH.....\$1.18

WRINKLE VARNISH

An attractive, modern wrinkle-finish for all metal chassis, panels, etc. Air drying; easily applied with brush.



COLOR 1/2 Pint 1 Pint

Black A1955 A1961

Brown A1956 A1962

Green A1957 A1963

Silver Gray A1958 A1964

1/2 PINT, EACH.....24c

PER PINT, EACH.....\$1.18

CRYSTALLINE LACQUER

Will cover any metal surface with crystalline finish. Dries in 20 minutes. 2oz. cans.



A1950. Black. EACH.....18c

A1960. Gray. EACH.....24c

A1952. Brown. EACH.....59c

A1951. Black. 8oz. can. NET.....59c

A1953. Black. 1pt. can. NET.....\$1.05

BULB COLORING KIT

Kit contains one bottle each: Green, Blue, Red and Brown; with a bottle of solvent.

A2998. PER KIT.....27c

GRILL CLOTH

Finest tapestry material; interwoven black and gold design. Specify size. Furnished only in 1, 2, 3, or 4 ft. widths, any length.

A2916. Square Foot.....18c

COIL DOPE

This Meissner High "Q" RF lacquer coating assures permanently efficient coils. Quick drying. Indispensable for Builders and Servicemen.

A7522. NET.....29c

A7521. Thinner. NET.....18c

SOCKETS • PLUGS • CONNECTORS

FAMOUS AMPHENOL TUBE SOCKETS



"MIP" SOCKETS

Cadmium-plated steel plate molded into bakelite. 1/2" mtg. centers. Strongest sockets made.

REPLACEMENT SOCKETS

Made of molded bakelite. Special universal adapter plate permits quick replacement of any wafer socket. Side grip contacts for sure tube prong contact. These universal replacement sockets may be mounted in any desired position.

No.	Prongs	EACH
A4524	5	7c
A4525	6	
A4526	7S	
A4528	7M	9c
A4529	7S-7M	
A4530	8 Octal	
A4531	9 Prong	11c

No.	Prongs	EACH
A4506	4	6c
A4507	5	
A4508	6	
A4509	7S	
A4510	7M	7c
A4511	8	
A4512	9	
A4513	11	9c
A4514	12	12c
A4568.	Super MIP U.H.F. Octal Socket. NET... 29c	
A4622.	Molded Local. 10c	
A4624.	Low-Loss Local. 18c	



CHASSIS TYPE

For chassis hole mounting. Steel locking ring. Molded bakelite with cadmium-plated contacts.

No.	Prongs	EA.
A4532	4	6 1/2c
A4533	5	
A4534	6	
A4535	7S	8c
A4536	7M	
A4537	7	
A4538	Comb. Octal.	8c
A4539	9	10c
A4625.	For Local Tubes... 10c	

STEATITE

The ideal socket for Short-Wave receivers and transmitters. New low-loss design of glazed steatite. With universal mounting plate. Silver-plated contacts. A very popular high-quality socket.

No.	Prongs	EA.
A4541	4	24c
A4542	5	
A4543	6	
A4544	7S	29c
A4545	7M	
A4547	7	
A4548	8	24c

TOP CHASSIS

Mounted in heavy aluminum shell, which raises socket 1/2" above sub-panel and shields socket connections, 4 wiring entrances. Sturdily designed.

No.	Prongs	EA.
A4522	4	12 1/2c
A4523	5	
A4548	6	
A4549	7S	14c
A4626	7M	
A4627	7S-7M	
A4628	8	16c
A4629	9	

OAK TYPE WAFER SUB-PANEL SOCKETS

High grade wafer type sub-panel tube sockets of laminated bakelite construction. Sturdy and reliable with fully insulated top. Contacts are full-floating type, self-aligning, and of one piece construction for low resistance connection; make sure-secure contact with tube prongs. Center rivet secures hole laminations together. Each socket has hole locating ring for easy tube insertion.



STANDARD SIZE

No.	Prongs	EACH	PER 10
A4020	4	5c	45c
A4021	5		
A4022	6		
A4023	7M		
A4024	7S		
A4024	7S		

MIDGET SIZE

No.	Prongs	EACH	PER 10
A4026	4	5c	45c
A4027	5		
A4028	6		
A4029	7M		
A4030	7S		
A4031	Local		

FOR ALL OCTAL BASE TUBES

Similar to sockets above but has 8 holes to fit octal base glass and metal tubes. 1 1/2" mounting centers. A4031. 10 FOR 45c. NET EACH 5c.

GENUINE EBY TUBE SOCKETS



BAKELITE TYPE

One-piece black bakelite construction. Sturdy contact guides. 1 1/2" mounting centers.

No.	Prongs	EACH
A4000	4	18c
A4001	5	
A4002	6	
A4003	5 and 6	24c
A4004	7M & 7S	
A4005	7M (.855)	
A4006	8 Octal.	

ISOLANTITE TYPE

Low-loss sockets, especially effective on high frequencies. Rust-proof side-gripping contacts. Oval holes for 1 1/2" to 1 3/4" mounting.

No.	Prongs	EACH	PER 10
A4015	4	29c	\$2.70
A4016	5		
A4017	6	32c	2.97
A4018	7S		
A4019	7M		
A4014	8 Octal.	35c	3.24

BASE MOUNT SOCKETS

A molded bakelite socket for panel or baseboard mounting. Rugged contacts. 1 1/2" diameter, with nickel-plated binding posts.

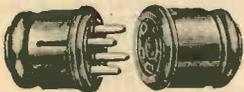
No.	Prongs	EACH	PER 10
A4515	4	21c	\$1.95
A4516	5		
A4517	6		
A4518	7M	27c	
A4519	7S		
A4520.	8 (Octal). EACH... 27c		



2-PIECE CONNECTORS

Connectors of two piece molded bakelite construction. Sure grip handles; sturdy contacts and pins. For microphone or speaker plugs.

MALE		FEMALE	
No.	Prongs	No.	Prongs
A1807	4	A1813	4
A1808	5	A1814	5
A1809	6	A1815	6
A1810	7M	A1816	7M
A1811	7S	A1817	7S
A1812	8	A1818	8
	(Octal)		(Octal)
NET EACH	18c	NET EACH	24c



AMPHENOL SHIELDED CABLE CONNECTORS

Insulated steel cap snaps over Clip-Tite socket (or plug); provides perfect electrical shielding. Has rubber grommet in end to protect cable. Assures perfect connection. Diam. 1 1/4"; 1 1/4" long.

MALE		FEMALE	
No.	Prongs	No.	Prongs
A1630	4	A1635	4
A1631	5	A1636	5
A1632	6	A1637	6
A1633	7S	A1638	7S
A1634	8 Octal.	A1639	8 Octal.
A1628	9	A1619	9
A1624	11		
NET EACH	15c	NET EACH	15c
A1625.	AC Plug. AC Socket.		
A1626.	AC Plug. AC Socket.		
EACH	24c	EACH	24c

A1640. Locking Type Metal Sleeves slip over above connectors and screw together. Set of 2 Pieces... 15c

A1783. Chassis Type Metal Sleeves. Set of 2 Pieces... 15c



AMPHENOL AC PLUGS AND RECEPTACLES

Molded bakelite plugs and receptacles. Fig. A is available in either male or female type. Fig. B has mounting plate for male or female type. * are polarized.

No.	Fig.	Type	NET
A4077	A	Male	15c
A4078	A	Male*	
A4079	A	Female	
A4080	B	Male	16 1/2c
A4081	B	Male*	
A4082	B	Female	

RECESSED PLUG AND RECEPTACLE

Set in drawn steel, burnished nickel-plated shell. Overall shell diameter, 1 1/4".

No.	Type	NET
A4083	Male	24c
A4084	Male*	
A4085	Female	

SPECIAL STEATITE OCTAL SOCKET

A low-loss octal socket incorporating all of the advantages of ceramic insulation. Standard 1 1/2" mtg. centers.

A4088.	NET	14c
--------	-----	-----

HEAVY-DUTY RUBBER-HANDLE PLUGS

Molded bakelite plugs and sockets mounted in unbreakable rubber handles. For use on speakers, power packs, or other types of multi-conductor connecting cable. Hollow, tinned prongs for individual wires in cable. 2 1/2" handles.

PLUGS		SOCKETS	
No.	Prongs	No.	Prongs
A4035	4	A4040	4
A4036	5	A4041	5
A4037	6	A4042	6
A4039	7S	A4043	7M
		A4044	7S
NET EACH	15c	NET EACH	23c

HOWARD B. JONES PLUGS AND SOCKETS

Multiple contact plugs and sockets of molded bakelite with metal caps. Compact, dependable units; popular for Public Address use.

Contacts	Plugs			Sockets		
	No.	NET		No.	NET	
2	A1876	18c		A1883	18c	
3	A1877	18c		A1884	19c	
4	A1878	20c		A1885	21c	
6	A1879	24c		A1886	26c	
8	A1880	26c		A1887	29c	
10	A1881	31c		A1888	34c	
12	A1882	34c		A1889	38c	

Quality Radio SWITCHES for all Purposes

H&H TOGGLE SWITCHES



Underwriters approved; rated at 3 amps.—125 V. 1 amp.—250 V. Oxidized bronze finish. Threaded stem, 1/8" dia. Supplied with two lock-nuts.

SINGLE POLE SINGLE THROW (2 LUGS)

No.	Stem	EACH	PER 10
A5450	3/8 in.	16c	\$1.44
A5451	1/2 in.	18c	1.62
A5452	1 in.	19c	1.71

SINGLE POLE DOUBLE THROW (2 LUGS)

A5453	3/8 in.	20c	\$1.80
A5454	1/2 in.	22c	1.98
A5455	1 in.	23c	2.07

DOUBLE POLE SINGLE THROW (4 LUGS)

A5456	3/8 in.	26c	\$2.34
A5457	1/2 in.	29c	2.61
A5458	1 in.	30c	2.70

DOUBLE POLE DOUBLE THROW (6 LUGS)

A5459	3/8 in.	35c	\$3.15
A5460	1/2 in.	37c	3.33
A5461	1 in.	38c	3.42



TOGGLE SWITCH PLATE

An inexpensive "on-off" plate for any toggle switch. Has 1/2" shaft hole. Attractive bronze finish and clear lettering.

A5467. NET EACH..... 2c
PER TEN..... 12c

H&H ROTARY SWITCHES



Positive contact rotary type power switches. Rated at 3 amps.—125 V. 1 amp.—250 V. Steel-cased. Shaft is 1/4" long. 1/4" diameter. Threaded 3/8" diameter stems for panel mounting. With lock-nuts. Underwriters' Approved.

A5466. S.P.S.T. 1/2".
Stem. 10 for \$1.25. EACH 14c

A5462. S.P.S.T. 3/4".
Stem. 10 for \$1.44. EACH 16c

A5463. S.P.D.T. 3/8".
Stem. 10 for \$1.79. EACH 20c

A5464. D.P.S.T. 3/8".
Stem. 10 for \$2.88. EACH 32c

A5465. D.P.D.T. 3/8".
Stem. 10 for \$3.33. EACH 37c

PUSH-BUTTON TYPE

S.P.S.T. metal plunger type. Press to close circuit; press again to open. Handles 250 V. at 3 A. Threaded 1/2" stem.

A5720. EACH..... 24c
10 FOR..... \$2.15

BAKELITE BUTTON TYPE

As above, but with "snap-on" bakelite button in red or black.

A5721. RED. 29c

A5722. BLACK. EA..... 29c
10 FOR..... \$2.60



SWITCH LOCK

For automobile radios, etc. Key withdraws only in locked position. Nickel-plated, 1/4 inch body diameter. With two keys.

A2905. NET..... 47c



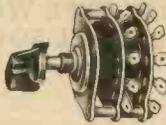
TAP SWITCH

Amphenol 8-position, single-pole switch for impedance matching.

etc. Tap designations visible through window in cap.

A4505. NET..... 44c

YAXLEY GANG SWITCHES



For test equipment and general radio and laboratory work. Have 1 fixed and 1 adjustable stop, laminated bakelite insulation, and phosphor-bronze springs. 2 gang switches are spaced 1/2"; 3 gang are spaced 1". Notched 2" shaft is easily shortened. Require 3/8" mounting hole. Complete with bar knob, but less dial plate.

SINGLE GANG TYPE	Shorting Type		Non-Shorting Type		Poles	Pos.	List Each	NET EACH
	A11950	A11951	A11955	A11956				
	A11952	A11953	A11957	A11958	2	1-11	1.15	\$0.59
	A11954	A11959	A11961	A11962	2	1-5	1.25	.68
			A11963	A11964	3	1-3	1.35	.79
			A11965	A11966	4	1-2	1.45	.85
TWO GANG TYPE	A11960	A11961	A11965	A11966	2	1-6	\$1.60	\$0.94
	A11962	A11967	A11968	A11969	2	1-11	1.75	1.03
	A11963	A11968	A11969		4	1-5	2.00	1.18
	A11964	A11969			8	1-3	2.10	1.23
THREE GANG TYPE	A11940	A11943	A11943	A11943	3	1-6	\$2.20	\$1.29
	A11941	A11944	A11944	A11944	3	1-11	2.35	1.38
	A11942	A11945	A11945	A11945	6	1-5	2.50	1.47

YAXLEY SINGLE GANG SWITCHES



The Yaxley 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; 3/8" threaded bushing. With bar knob and mounting nut. All 1 1/8" base dia. types have adjustable stops.

Shorting Type	Non-Shorting Type	Poles	Pos.	Base Diam.	List Each	NET EACH
A13020	A13100	1	1-5	1 1/8"	75c	44c
A13021	A13101	2	1-12	1 1/8"		
A13022	A13102	2	1-2	1 1/8"		
A13023	A13103	2	1-3	1 1/8"		
A13024	A13104	2	1-6	1 1/8"		
A13025	A13105	3	1-4	1 1/8"		
A13026	A13106	4	1-2	1 1/8"		
A13027	A13107	4	1-7	1 1/8"		
A13028	A13108	4	1-9	1 1/8"		
A13029	A13109	4	1-1	1 1/8"		
A13030	A13110	3	1-6	1 1/8"	90c	53c
A13031	A13111	6	1-3	1 1/8"	85c	50c
					90c	53c
					\$1.35	79c
					1.11	79c
					1.50	88c
					1.50	88c

YAXLEY SWITCH PLATES



For switch, tone or volume control use. Have aluminum figures on black background. 7/8" center hole.

Marking	Marking	Marking	Marking
*0 to 100	1 to 6	1 to 12	Off-1 to 7
1 to 15	1 to 7	1 to 17	Off-1 to 8
1 to 2	1 to 8	Off-1 to 3	Off-1 to 9
1 to 3	1 to 9	Off-1 to 4	Off-1 to 10
1 to 4	1 to 10	Off-1 to 5	Off-1 to 11
1 to 5	1 to 11	Off-1 to 6	Volume

A13035. Specify marking desired. (*Net Price, 15c).
ALL OTHERS, EACH..... 9c

CUTLER-HAMMER TOGGLE SWITCHES



Finest quality Underwriters' Approved switches. Have 1/2" threaded stem and bakelite base. One-hole mounting type with solder lugs at rear. Heavy nickel-plated finish. 1/2" bushing. Ideal for sets, meters, lamps,

and all other requirements.

A13043. S.P.S.T. 3 A.
250 V. 10 for \$1.53. EACH 17c

A13044. S.P.D.T. 2 A.
250 V. 10 for \$1.80. EACH 20c

A13045. D.P.S.T. 3 A.
250 V. 10 for \$2.34. EACH 26c

A13046. D.P.D.T. 3 A.
250 V. 10 for \$3.25. EACH 36c

"ON-OFF" PLATES

Nickel-plated "on-off" switch plate for above switches. Clearly etched lettering.

A13047. 10 for 12c.
NET EACH..... 2c

3-POSITION SWITCH



S.P.D.T. switch with off position in center. Rated at 3 A., 125 V. A.C. 1/2" bushing. One Screw terminals. One hole mounting. A fine quality switch.

A13048. 10 for \$1.80.
NET EACH..... 20c

YAXLEY NO. 10 MIDGET JACK SWITCH

Ultra-compact S. P. S. T. jack switch with "on-off" plate, knob, and pointer. 7/8" dia. single hole mount.



A11990. 29c

MIDGET BAKELITE KNIFE SWITCHES

For panel or base mounting. Nickel-plated blades and contacts; bakelite base.



A6515. S.P.S.T. 1/2"x1 1/4". 9c

A6516. S.P.D.T. 1/2"x1 1/4". 15c

A6518. D.P.S.T. 1"x1 1/4". 21c

A6517. D.P.D.T. 1"x1 1/4". 24c

MIDGET PORCELAIN KNIFE SWITCHES

Neat and compact knife switches. Have glazed porcelain base and convenient screw terminals.



A1275. S.P.S.T. 1" x 2 1/4" 9c

A1276. D.P.S.T. 1 1/2" x 1 1/4" 17c

A1277. S.P.D.T. 1" x 2 1/4" 11c

A1278. D.P.D.T. 1 1/2" x 2 1/4" 19c

A1279. 3 P.D.T. 2 1/4" x 2 1/4" 39c

FEDERAL ANTI-CAPACITY SWITCHES

The original anti-capacity switches; now improved with efficient new springs and contacts of silver-plated phosphor bronze and Phenol insulation.



A4155. D.P.S.T. EACH

A4156. D.P.D.T. \$1.65

A4157. 4 P.D.T. \$1.90

PUSH-BUTTON SWITCHES

Have cadmium-plated springs and bakelite knobs. 3/8" hole mounting. Locking type makes contact with knob pushed in. Non-locking type opens when knob is released.



Locking Type

Non-Locking Type

NET EACH

A8960. SPST. A8964. 53c

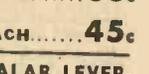
A8961. DPST. A8965. 70c

A8962. SPDT. A8966. 59c

A8963. DPDT. A8967. 88c

INDUCTANCE SWITCHES

Compact switch used in test equipment, etc. Nickel-plated type with pointer knob. 7/8 in. hole mtg. Of fine quality.



No. 3 EACH..... 38c

A8950. 5

A8951. 9

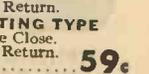
A8952. 5

A8953. 9

A8954. 12 EACH..... 45c

NEW CENTRALAB LEVER-ACTION SWITCHES

A compact, new 2 pole 3 position, low-capacity lever-action switch for radio sets, amplifiers, test equipment, etc. Spring brass silver-plated contact clips; bakelite insulation. Size: 1 1/2" high, 1 1/2" deep.



A1996. Positive Close.

A1997. Spring Return.

NON-SHORTING TYPE

A1998. Positive Close.

A1999. Spring Return. 59c

NET EACH..... 59c

PLATES FOR ABOVE

Black crackle-finished cold rolled steel mounting plates with vertical mounting holes.

A2098. For 1 Switch..... 12c

A2099. For 2 Switches..... 15c

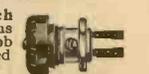
A2097. For 3 Switches..... 21c

A2098. For 4 Switches..... 26c

A2099. For 5 Switches..... 29c

CRL TONE SWITCHES

For use in any circuit. Steel shaft 1/4" x 2 1/4" can be cut to any length; milled flat. Shorting type contacts. Rating, 1 amp. at 6 volts.



A3270. Type 1460. S.P. 2T. 1x1 1/4".

A3271. Type 1461. S.P. 3T. 1 1/2x1 1/2". NET EACH..... 29c

A3272. Type 1462. 2P. 2T. 1x1 1/2". NET..... 35c

ROTARY CANOPY SWITCH

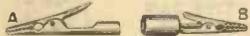
Single pole switch with 1/4" shank. Has brown bakelite knob and 6 leads. Rated 1 amp. 250 volts.



A5559. 10 FOR \$1.89. NET EACH..... 21c

PLUGS · JACKS · POSTS · CLIPS

ALLIGATOR CLIPS



Long thin-nosed clips. Powerful grip. Banana plug fits back of clip. Handy for general test and hook-up purposes. Insulated type available with red or black handle.

AG317. FIG. A. 2' long.
Per Doz., 36c.
100 Lots, \$2.85.
NET EACH..... **4c**

AG318. FIG. A. 2 1/4' long.
Per Doz., 54c.
100 Lots, \$4.25.
NET EACH..... **5c**

FIG. B. 2 1/4" INSULATED
AG337. Red.
AG338. Black.
Per Doz., 78c. EACH..... **7c**

FIG. B. 3 1/2" INSULATED
AG339. Red.
AG340. Black.
Per Doz., 84c. EACH..... **8c**

B. 2 3/4" FOR PHONE TIPS
AG428. Red.
AG429. Black.
Per Doz. \$1.56. EACH. **14c**

BINDING POSTS



FIG. A. EB JUNIOR. Has non-removable screw type engraved top. 1/2" Dia. Screw is 6-32x1/2 long. Insulated for use on metal chassis.

A4056. Plain. A4053. Out-
A4050. Ant. put.
A4051. Gnd. A4054. +
A4052. Input. A4055. -
Per doz., 99c.
EACH..... **9c**

FIG. B. EB TWIN assembly. Standard Ant. and Gnd. posts mounted on bakelite base or laminated strip. 2x3/4" base.
A4058. Bakelite.
A4059. Laminated...... **14c**

FIG. C. COMBINATION PLUG AND TIP JACK. Top takes banana plug; shank accommodates phone tip or wire.
AG325. Red.
AG326. Black.
PER DOZ., 74c. EACH..... **7c**

TWIN JACKS



FIG. A. LAMINATED TYPE Laminated bakelite construction with sure-grip contact springs. Ideal for headphone, phonograph, or speaker connections. 2"x3/4".

A4061. Speaker.
A4062. Phono.
A4063. Plain.
10 FOR 45c. EACH..... **5c**

TRIPLE TIP JACKS

For microphones, speakers, etc.
A4068. Plain...... **7c**
10 FOR 61c. EACH..... **7c**

FIG. B. MOLDED TWIN JACKS. Have single mounting screw molded into bakelite. Size, 2"x3/4". For cord tips.

A4064. Speaker.
A4065. Phono.
A4066. Plain. EACH...... **15c**

SHORTING TYPE JACKS

Circuit automatically closes when cord tips are removed. Particularly adapted for use in point-to-point analyzer construction. Similar to Fig. B. Single mounting stud.
A4067. NET..... **17c**

VALUES IN POPULAR PHONE PLUGS



MIDGET PHONE PLUGS

For use where space is limited in compact radios, P. A. systems, etc. 2 1/2" long overall; barrel dia. 3/8".
A5737. Black.
A5738. Red.
10 FOR \$1.60. EACH. **17c**

METAL SHELL TYPE
Ideal for portable amplifiers. Brass nickel-plated barrel for shielding purposes. 2 1/4"x3/8".
A5694.
10 FOR \$2.65. EACH. **28c**



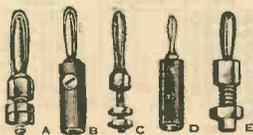
STUBBY PHONE PLUG

Shielded type plug for use in limited space. Brass nickel-plated shell. Suited for portable amplifiers. Barrel size, 1 1/8" dia. x 1" long.
A5695.
10 FOR \$2.65. EACH. **28c**

TRIMM FLAT PLUG

Compact flat phone plug of molded bakelite with nickle-plated stem. Flat portion only 1 1/8" dia., 1/4" thick. Screws hold tips firmly. Polarity indicated.
A5272. NET..... **31c**

BANANA PLUGS AND JACKS



STANDARD PLUGS

FIG. A. NON-INSULATED nickel-plated brass plug with tinned spring-brass prong. 1 1/2" long. **4c**
AG342. EACH
PER DOZ., 36c.
100 FOR..... **\$2.85**

FIG. B. INSULATED TYPE. Set screw holds tip in place.
AG345. Red.
AG346. Black. EACH..... **6c**
PER 10 48c. 100 FOR \$4.55

SPLIT TYPE PLUGS

FIG. C. NON-INSULATED. Durable positive spring action. Cannot bend out of shape. **4c**
AG350. EACH
DOZ., 36c. 100 FOR \$2.85

FIG. D. INSULATED TYPE. Solderless connecting type.
AG351. Red.
AG352. Black. EACH..... **7c**
DOZ., 74c. 100 FOR \$5.25

BABY TYPE PLUGS

FIG. E. Small banana plug for coil mountings...... **4c**
AG354. EACH
DOZ., 36c. PER 100..... **\$2.85**

FIG. F. INSULATED TYPE
AG357. Red.
AG358. Black. EACH..... **6c**
DOZ., 57c. 100 FOR \$4.55

MIDGET SHORT JACK



Smallest made. Heavy bakelite insulation. Requires 1/4" mounting hole. Widely spaced solder lugs.
AG982. Open Circuit type for general output.

AG983. Single Closed Circuit.
NET..... **14c**
EACH..... **14c**
10 Assorted..... **\$1.25**



DOUBLE PHONE PLUGS

Take two sets of cord tips. Fit all makes of phone jacks. Have molded bakelite barrel.
A5515. Black.
A5725. Red.
10 FOR \$1.60. EACH. **17c**

METAL SHELL TYPE
Brass nickel-plated shell for shielding purposes. Pure gum rubber insulating bushing.
A5726.
10 FOR \$3.10. EACH. **33c**



FLAT TYPE PLUG

Automatic grip. Tips are firmly held upon insertion. Eyelet anchors cord. Molded body.
A3972. NET..... **12c**

CARTER FLAT PLUG

Popular flat plug. Molded bakelite shell only 1 1/8" in diameter, 1/4" thick. Ideal for wall plate connection. Polarity shown.
A8956. NET..... **33c**

QUALITY TIP JACKS



FIG. A. Nickle-plated tip jacks for minimum panel space. Bronze springs insure positive grip. Require 1/4" mounting hole. Will fit panels up to 3/8" thickness.
AG362.
PER DOZ., 29c. EACH..... **3c**

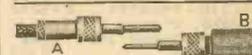
FIG. B. Short compact type. Fits panels up to 1/4" thick.
AG363.
PER DOZ., 29c. EACH..... **3c**

FIG. C. INSULATED TYPE. New type sure grip springs insure positive contact. Insulated head and shoulder washer.
AG364. Red.
AG365. Black. EACH..... **6c**
PER DOZ., 57c.
100 FOR..... **\$4.55**

FIG. D. BANANA PLUG OR TIP JACK. A combination insulated jack for standard tip or banana type plug. Useful in construction of test equipment. With nut and insulating washer. Requires 1/4" mounting hole.
AG366. Red.
AG368. Black. EACH..... **8c**
PER DOZ., 85c.
100 FOR..... **\$6.50**

YAXLEY COLORED TIP JACKS

Insulated jacks for standard cord tip. Mount in 3/8" hole. Spring contact with solder lug connection. With bakelite caps: one red, one black.
A4069. SET OF 2..... **15c**



IMP PLUGS

FIG. A. Metal sleeve midget plug with screw-on connection. Fits all standard tip jacks. Nickel-plated brass. Solderless type.
AG370. EACH..... **4c**
PER DOZ., 35c.
PER 100..... **\$2.80**

FIG. B. INSULATED TYPE
AG371. Red.
AG372. Black. EACH..... **6c**
PER DOZ., 57c.
100 FOR..... **\$4.55**



CORD TIPS

FIG. A. Practical new design. Hole in sleeve provides convenient means of soldering to wire insert. Drop of solder holds wire securely.
AG373. PER 100, 72c.
AG374. PER 10..... **8c**

FIG. B. Standard size solderless screw-on connector, 1 1/4" long. Easily attached to cord.
PER 10, 25c.
AG375. EACH..... **3c**

FIG. C. Standard size nickel-plated brass cord tip; will fit any regular tip jack.
AG376. PER 100, 45c.
AG377. PER 10..... **6c**

FIG. D. Heavy-duty brass tip with nickel-plated finish. Used on test leads, etc. Length, 1 1/2".
AG522. PER 10, 25c.
AG523. EACH..... **3c**

FUSES · CLIPS · CONNECTORS

MUELLER CLIPS



Strong channel construction. No solder required. Screw or lug connection. 5 and 10 amp. types bright rustless finish; balance are lead-coated steel.

MESH TEETH TYPE

A6500. PEE-WEE. 1½" long. 5 amps. No. 45. 7 lb. spring. Jaw spread, ⅜".
EACH, 4c. Box of 10... 29c

A6501. PEE-WEE. 2" Spread. ½". 10 amps. No. 48B. 10 lb. spring.
EACH, 4c. Box of 10... 32c



WEE-PEE-WEE SOLID COPPER CLIPS

A6509. No. 88. 1½" long. Jaw spread, ¼". Ideal for close-down coils.
EACH, 8c. Box of 10... 59c

A6510. No. 88 clip with rubber insulator. Per Pair, 1 Red, 1 Black, NET, 24c.
Box of 10 (5 pair)... 86c

A6480. No. 45C. 1½" long. 10 amps. Spread, ¼".
EACH, 7c. Box of 10... 54c



GRIP TEETH CLIPS

A6502. 2½" long. No. 24A. 17 lb. spring. Spread, 1".
EACH, 7c. Box of 10... 59c

A6503. 4" long. No. 21A. 33 lb. spring. Spread, 1½".
EA. 16c. Box of 10... 1.08

A6504. 6" long. No. 11A. 38 lb. spring. Spread, 1¾".
NET EACH... 42c



CROCODILE CLIPS

Type 85. Small clips with slender elongated jaws. Screw terminals; with barrel ends to fit banana plugs. Length, 2¾". Jaw spread, ⅜".
A6477. EACH... 6c
Per 10, 39c. 100 For \$3.43.

CROCODILE "TIP-CLIP"

Type 85-T. Has standard phone tip soldered to lower jaw. For test leads used on units with non-removable binding posts.
A6505. EACH... 12c
Per 10, 88c. 100 For \$7.35.



ALLIGATOR CLIPS

A6580. No. 60. 2" long. Round thumb grip. Barrel connection for banana plug.
EACH, 5c. 10 For... 34c

A6581. No. 60S. As above, but with screw connection.
EACH, 6c. 10 For... 39c

A6582. No. 60CS. Like 60S but of solid copper.
EACH, 10c. 10 For... 69c

RUBBER INSULATORS

In pairs of 1 red and 1 black.
No. For Clip Per Pr. 5 Pairs
A6485 45.45C \$0.14 \$0.52
A6486 48B .17 .63
A6487 24A .34 1.37
A6488 21A .34 1.37
A6489 11A .19 4.10
A6481 85.85T .08 .28

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 A.C. or D.C. up to 250 volts. Highest quality.



Cat. No.	Rating Amps.	Max. Load M. A.	Aver. Resis. 5 M. A. Load	NET EA.	NET PER DOZ.	Use to Protect Milliammeters:		
						Voltmeters Ohms per Volt	All Magnetic Types	Thermo-Couple Types
A6241	1/200	5	500	18c	\$1.95	Over 1000	Galv.	0-5
A6230	1/100	10	110	12c	\$1.32	1000	Up to 0-1	0-10
A6231	1/32	25	20			500-1000	0-10	0-25
A6232	1/16	60	5.0			100-500	0-25	0-60
A6233	1/8	100	1.5				0-75	0-115
A6234	1/8	100	3.0	9c	\$1.00	20-100	0-75	0-115
A6235	1/4	200	6.2			10-20	0-150	0-200
A6236	3/8	300	3.0			5-10	0-250	0-300
A6237	1/2	400	2.5			3-5	0-350	0-400
A6238	3/4	600	.40				0-500	0-600
A6239	1	1000	.24	6c	65c		0-750	0-1000
A6240	2	2000	.14				0-1500	0-2000

LITTELFUSES FOR RADIO AND AMPLIFIER

For use in 105-120 volt primary line. Underwriters' approved. 1¼x¼".

No.	Amp.	Volts	NET EA.	No.	Amp.	Volts	NET EA.
A6242	1	250	5c	A6246	½	500	9c
A6243	1½	250	PER DOZ.	A6247	¼	500	PER DOZ.
A6244	2	250	50c	A6248	¼	500	PER DOZ.
A6245	3	250		A6249	¼	500	\$1.00

TELEVISION FUSES

Vacuum enclosed, low current fuses for Video equipment. Will break up to 20,000 volts peak. 1¼x½" dia.

No.	Amps.	NET EACH
A4950	1/1000	29c
A4951	1/500	
A4952	1/200	
A4953	1/100	
A4954	1/32	
A4955	1/16	
A4957.	Clip for above.	
	10 For 25c.	3c

SFE AUTO FUSES

New series of Underwriters' approved fuses for autos. Standard in most new cars. Size varies according to amperage.

No.	Amps.	Size	NET EACH
A4960	4	¾"x¼" dia.	6c
A4961	6	¾"x¼" dia.	
A4962	9	¾"x¼" dia.	
A4963	14	1½"x¼" dia.	
A4964	20	1½"x¼" dia.	
A4965	30	1½"x¼" dia.	
	Per 10, 54c. 100 for \$4.50.		
	NET		
	EACH		



FUSE MOUNTINGS

Black molded bakelite mountings for Test Instrument Littelfuses. Have single hole mount.

A6250.	Per Doz., 98c. EACH... 9c
A6251.	Panel type mounting. Per Doz., \$1.30. EACH... 12c
A6255.	"Meter Back" mounting. Size: 1"x1½"x¼". Per Doz., \$1.30. Each 12c



METAL-COVERED MOUNT

Underwriters' approved. Cadmium-plated shell with bakelite base. Size, 2½x¼". 2½" mounting centers.
A6257. EACH... 12c
Per Dozen... \$1.30



SPECIAL VALUE BATTERY CLIPS

Exceptionally low priced, high quality battery clips with heavy non-corrosive finish. Have strong springs; will give dependable service with sure grip.

A6400.	1½" long. Jaw spread, ⅜". 10 for 25c.	3c
A6401.	2" long. Jaw spread, ½". 10 for 25c.	3c
A6402.	2½" long. Jaw spread, ⅝". 10 for 42c.	5c
A6403.	3¾" long. Jaw spread, 1". 10 for 55c.	6c



EXTRACTOR FUSE POST

A6258. Underwriters' approved. Molded bakelite. Holds type 3AG fuses. Take panels up to ¾" thick.
A6259. For Test Instrument Littelfuses above.
NET EACH... 24c

FUSE CLIPS

Single hole mount for small auto or radio tubular fuses.
A6253. NET... 2c
Per Doz... 14c



FUSE RETAINER

Cadmium-plated separable metal container for fusing a line. Used extensively for auto sets. Takes 1" or ¾" fuse.
A6252. EACH... 6c
Per Doz... 54c

BATTERY BINDING POST

Adapts any auto storage battery for radio set use. Has binding screw for connecting lead wire.
A6341. NET... 18c

INSULATED TIE TERMINAL

Has a host of uses. Provides convenient tie point for resistors, by-pass condensers, etc.
A6513. 10 For... 19c
100 For... \$1.16

BUSS QUALITY FUSES

TYPE 3AG

Tubular fuses. Compactly made. Size is 1¼ in. x ¼ in. Protect radio sets, test instruments, etc.



No.	Amp.	No.	Amp.
A6010	1	A6015	5
A6011	1½	A6016	10
A6012	2	A6017	15
A6013	3	A6018	20
A6014	4	A6019	25
Box of 5... 14c		Box of 5... 10c	
Per 100 \$2.65		Per 100 \$1.60	

EAGLE INDICATING FUSES

Shows "OK" in window when fuse is good; "OK" vanishes when fuse blows.



A3995. 10 Amp.	5 FOR 20c
A3996. 15 Amp.	
A3997. 20 Amp.	
A3998. 25 Amp.	
A3999. 30 Amp.	



MOUNTING STRIPS

Handy insulated strips to support resistors, junction connections, etc., on metal chassis.

No.	LUGS	EACH	TEN
A6305	2	3c	16c
A6306	3	3c	18c
A6307	4	4c	33c
A6308	5	4c	33c
A6309	6	4c	33c

TERMINAL STRIPS

Bakelite strips with securely fastened screw terminals.



No.	Term.	Each	TEN
A6311	2	9c	\$0.74
A6312	3	12c	1.25
A6313	4	12c	1.25
A6314	5	19c	1.55
A6315	6	23c	1.85
A6436	7	29c	2.55
A6437	8	35c	3.05
A6438	9	41c	3.60
A6439	10	47c	4.10



TERMINAL BOARDS

Plug-in type. Has tempered metal contacts securely fastened on ½" centers on durable bakelite strips.

No.	Clips	EACH	TEN
A4910	2	6c	54c
A4911	3	7c	63c
A4912	4	8c	81c
A4913	5	10c	90c
A4914	6	12c	\$1.35
A4915	7	15c	1.35
A4916	8	20c	1.80

A4917. Contacts. 10 For... 7c

INSULATED PIN PLUGS

A4920. RED... 4c
A4921. BLACK... 4c
10 For 35c. EACH... 4c



FAHENSTOCK CLIPS

A6320. Single, 1" long.	10c
NET PER DOZ.	
A6321. Single, ¾" long.	9c
NET PER DOZ.	
A6322. Double, 1¾" long.	26c
NET PER DOZ.	
A6323. Double, 1¼" long.	25c
NET PER DOZ.	

RADIO HARDWARE VALUES

WING NUTS



Quality nuts, nickel-plated over brass. Easy to screw on with a flip of the fingers.

No.	Thread	EACH
A4850	6-32	4c
A4851	8-32	4c
A4852	10-32	100 FOR
A4853	1/4-20	\$2.95

ACORN TYPE CAP NUTS



Nickel-plated acorn cap nuts. Dress up the appearance of all apparatus.

A4855	6-32 Thread.	11c
A4856	8-32 Thread.	
A4857	100 for 95c.	

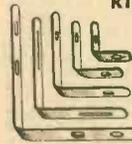
KANT-LINK LOCK WASHERS



Good quality spring steel lock washers. Assure firm binding of screws.

A4858	For #6 Screw	25 FOR
A4859	For #8 Screw	6c
A4860	For #10 Screw	
100 for..... 20c		

RIGHT ANGLE BRACKETS



Nickel-plated brass right angle brackets. Provide firm support at corners of cabinets, racks, etc. 1/4" width.

No.	Size	EA.	PER 10
A4862	1/2x1/2	1c	9c
A4863	3/8x3/8	2c	15c
A4864	1 x1	2 1/2c	19c
A4865	1 1/2x1 1/2	3c	25c
A4866	1 1/2x1 1/2	3 1/2c	32c

WITH TAPPED HOLES

Ideal for assembling chassis, cabinets, etc. Have one 8-32 tapped hole and one 3/32" diameter plain hole. Cadmium-plated steel.

No.	Size	10 FOR
A1663	1/2x1 1/2	16c
A1664	1/2x3/4	23c
A1665	1/2x3/4	

INSULATED GROMMETS



Prevent wires from fraying or breaking. Well-made bushings.

Stock No.	Fits Inside Hole	Inside Diam.	LGTH.	DOZ.
A7024	3/16"	1/8"	3/8"	52c
A7025	1/4"	3/16"	3/8"	53c
A7026	5/16"	1/4"	1/2"	70c
A7027	3/8"	5/16"	1/2"	82c

RUBBER GROMMETS

For insulating holes in metal chassis plates. For metal stock about 1/8" thick.

Stock No.	Fits Hole	Inside Diam.	Per Doz.
A7028	1/4"	1/8"	8c
A7029	3/8"	3/16"	19c
A7030	1/2"	3/8"	20c

ESCUTCHEON SCREWS



These 1/4" long wood screws fit every type of escutcheon or name plate.

A7040. Gross.....**29c**

PLUG BUTTONS



Plated brass buttons for covering up punched or drilled holes in panels, chassis, etc. of any metal up to 1/8" thickness.

No.	Hole Dia.	Each	TEN
A3964	1/8"	2c	16c
A3965	1/4"	2 1/2c	20c
A3966	3/8"	3c	24c
A3967	1/2"	3c	24c
A3968	3/4"	5c	42c

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 ship-shape.

YOUR PRICE ANY JAR COMPLETE WITH HARDWARE.....24c
A4870. Glass Jar Only.....5c

HANDY ROUND HEAD MACHINE SCREWS (A)

No.	Quantity	Size
A4871	100	4-36x1/2"
A4872	75	4-36x3/4"
A4873	90	6-32x1/2"
A4874	80	6-32x3/4"
A4875	70	6-32x1"
A4876	70	8-32x1/2"
A4877	65	8-32x3/4"

NICKELED HEX NUTS (B)

A4880	100	4-36x1/2"
A4881	90	6-32x1/2"
A4882	80	6-32x3/4"
A4883	50	10-32x3/4"

RADIO HARDWARE IN ENVELOPES

NOTE: All hardware above is also available in smaller quantities in envelopes. When ordering, write letter A after catalog number to identify type of hardware wanted. **EACH.....6c**

RACK SCREWS-WASHERS(C)

A4885. 20 each 10-32x3/4" oval bend screws with cup washers.

SELF-TAPPING SCREWS (D)

No.	Quantity	Size
A4886	50	No. 6x1/2"
A4887	45	No. 6x3/4"
A4888	40	No. 7x1/2"

SHAKEPROOF WASHERS (E)

A4890	100	6-32
A4891	90	8-32
A4892	80	10-32

SHOULDER Fibre Washers (F)

A4894	100	1/8-1/4x3/4"
A4895	90	3/16-1/2x3/4"
A4896	75	1/2-1/2x3/4"
A4897	50	3/8-1/2x3/2"

HANDY HARDWARE ASSORTMENTS



ALL-PURPOSE ASSORTMENT

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. Wt., 5 lbs.

A7094. **\$1.76**

BRACKET ASSORTMENT

A very useful assortment consisting of 28 popular-sized angles and brackets for radio work or for experimental projects. Nickel-plated brass. Shpg. wt., 1 lb.

A7099. **24c**

HEX NUT ASSORTMENT

A popular assortment of 85 nickel-plated hexagon nuts threaded 4-36 6-32, and 8-32. Easily screwed on; make firm connection.

A4900. NET.....**24c**

SWITCH POINTS AND STOPS

Solid brass. Heavily plated. 6-32, 1/2" thread. With 1/4" nut.

Switch Points. A7003. **8c**

Switch Stops. A7004. **8c**

CABLE CLAMPS

The 3/4" size fits 1/4" cable; 1" size fits 1/2" cables. Made of heavy-gauge steel, cadmium-plated. Have a No. 6 mounting hole.

A1666. 1/2" long. **6c**

A1667. 1" long. 10 for.....**54c**

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. Shpg. wt., 4 lbs.

A7008. **YOUR PRICE 95c**

FIBRE WASHERS

A large variety of shouldered and plain fibre washers useful to every Radio Experimenter and Serviceman. Assortment of 100 washers per box.

A7033. **PER BOX.....24c**

SPACERS AND BUSHINGS

Assortment of 25 bushings and spacers in 1/4" and 3/8" dia., from 1/4" to 1/2" long. For raising subpanels, chassis, etc. In brass or fenoline insulated. Wt., 1 lb.

A4902. Insulated Assortment. **39c**

A4901. Brass Assortment. **NET EACH.....39c**

SOLDERING LUGS

Good quality tinned brass soldering lugs in sizes and shapes to meet every requirement. Provide sure, permanent connections.

Style Screw

No.	No.	Size	PER PKGE.
A7045	1	6, 8	18c
A7046	2	8	
A7047	3	8	
A7048	4	6, 8	
A7049	5	6, 8	
A7018	4	10	
A7023	4	1/4"	18c
A7034	6	1/4"	

CADMIUM-PLATED MACHINE SCREWS

Standard thread. Cadmium-plated steel machine screws in a wide selection of sizes for every purpose.

6-32 ROUND HEAD

No.	Length	Gross Price
A7010	1/2"	16c
A7011	3/4"	17c
A7012	1"	19c
A7013	1 1/4"	20c
A7014	1 1/2"	27c
A7015	1 3/4"	35c
A7016	2"	95c

8-32 ROUND HEAD

A7019	3/8"	21c
A7020	1/2"	23c
A7021	3/4"	27c
A7022	1"	52c

METAL TAPPING SCREWS

Cut their own threads in metal as they are turned in. For all sheet metal up to No. 16 gauge.

SIZE 6	Gross Lgth. No.	SIZE 8	Gross
A7035	30c	A7041	34c
A7036	32c	A7042	36c
A7037	35c	A7043	38c
A7038	37c	A7044	40c
A7039	40c		

ORNAMENTAL HEAD SCREWS

Rosette head; statuary bronze finish. Size 6-32 (3/8" head dia.).

No.	Length	Doz.
A7000	1/2"	8c
A7001	3/4"	9c
A7002	1"	10c

SPADE LUGS

For mounting shield cans, etc. Cadmium plated. 6-32 thread.

A7007. Per 100, **25c**.

PER 10, NET.....**5c**

HEXAGONAL NUTS

Standard 3/8" nuts, machined steel, cadmium-plated.

A7005. 6-32. **18c**

A7006. 8-32. **PER 100, 18c**

SHAKEPROOF HARDWARE



Sturdy lugs and washers that cannot come loose when nut is tightened. Indispensable for close, workmanlike connections.

Lug No. Washer No.

A4905 For 6-32 Screw A4907

A4906 For 8-32 Screw A4908

100 FOR **20c**.

25 FOR.....**6c**

TUBULAR RIVETS

For replacement and repair work. Use with any standard rivet tool. Much faster than screws and nuts.

No.	Size	PER 100	PER 25
A6393	3/8"	28c	10c
A6394	1/2"	38c	11c
A6395	3/4"	38c	15c

EYELETS FOR ABOVE

No.	Size	PER 100	PER 25
A6396	3/8"	22c	9c
A6397	1/2"	22c	9c
A6398	3/4"	38c	15c

RUBBER BUMPER FEET

These rubber feet have standard 6-32 screw. Provide steady, solid footing to table cabinets, etc., without marring other furniture. Will not loosen.

A7092. **EACH.....2c**

10 FOR.....**18c** 50 FOR.....**75c**

Quality TOOLS FOR EVERY PURPOSE

BLACK & DECKER 1/4" JUNIOR DRILL



An ideal drill for maintenance and installation work. Made by a leading manufacturer. Husky aluminum casing. Famous "Compo" oilless bearings will give years of smooth operation. Can be used in stand for light grinding and wire brushing. Universal 110-120 volt AC-DC motor operates at 1800 R.P.M. without load; 1050 R.P.M. with full load. Length 12".

Equipped with 3 wire cable and plug (3rd wire for grounding); 3-jaw Jacobs chuck and key; thumb control switch. Wt. 5 lbs. **\$19.55**

A2109. YOUR SPECIAL PRICE

AC-DC ELECTRIC SPEED DRILL



Here is a high-quality electric speed drill at a remarkably low price. Very rugged construction, yet light in weight and easy to handle. Efficient motor is designed for long life. Sturdy chuck-assembly accommodates up to and including 1/2" drill. Pistol-grip handle has thumb-controlled switch. High speed drills below are ideal for use with this drill. 1500 R.P.M. Drills 3/4" from corners. For 110 V. A. or D.C. With 7 foot cord. Wt., 4 1/2 lbs.

A2110. YOUR SPECIAL PRICE

\$6.95

NEON TATTLETITE



This handy tester uses a tiny neon lamp for indicating voltages in excess of 90 volts peak. Can be used to indicate A.C., D.C., or R.F. voltages. When used on A.C. or R.F. circuits, both electrodes glow. D.C. polarity can be found by noting that only the negative electrode glows. Neon tube encased in non-breakable holder with two color-coded leads terminating in insulated test tips. Protective resistance prevents excessive current drain.

A6256. NET \$9.95

HAND DRILL VALUE



Beautifully finished hand drill with 1/4" hardened steel jaws adjustable from zero to full quarter-inch capacity. Polished hollow hardwood handle provides space for storing drills. Handle top threads on to body. Nickel-plated frame with gear finished in red. Accurately meshed gears are of a ratio designed to provide ample power and speed for full range of drill. An indispensable tool for the home workshop or service bench. Shpg. wt., 2 lbs.

A2122. NET \$7.95

NEW AUTOMATIC DRILL

A highly efficient low-priced automatic push-drill with innumerable uses in the home and workshop. Drills holes quickly and with surprising ease in wood, soft metals, wall-board, plaster, etc. Supplied with eight fluted-shank drill points, from 1/8" to 1/4" in diameter, contained in numbered compartments in magazine type black bakelite handle. Indestructible spiral driving mechanism. Shpg. wt., 2 lbs.

A2123. Automatic drill tool complete with 8 drills. NET \$1.39

ASSORTED DRILL SET



A real value. High quality twist drill set containing the popular sizes necessary for radio and other work. Set consists of 9 carbon steel drills ranging from 1/8" to 3/16" sizes in 1/32 inch size graduations. American-made.

A7734. NET \$3.95

A7720. High-Speed Drill Set. NET \$5.95

A.C. TRI-EXTENSION



A compact, convenient, three-way extension tap of molded bakelite. Steel plate fastened on back. Supplied with six-foot brown rubber cord of approved construction with bakelite handle plug cap.

A3426. NET PRICE \$2.45

PLUG CAP

Molded brown bakelite plug with finger-grip. Prevents pulling out wires. Parallel blade type. Sturdy prongs.

A3443. NET \$5.95

CUBE TAP

Three connections from one outlet. Strong sturdy construction; molded brown bakelite. Sure contact.

A3409. NET \$7.95

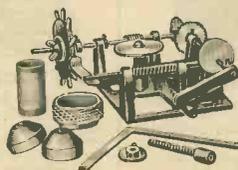


MONARCH UTILITY GRINDER

Fully guaranteed, precision-built grinder combining speed, accuracy, and utility. Convenient small size; overall dimensions, 2 1/4" dia. by 5 1/2" long. Ideal for model-building, engraving, etching, buffing, drilling, routing, etc. Rotor operates at 18000 R.P.M. Operates on 110-120 volts, D.C. or A.C., 25 or 60 cycles. Has Durex bearings; improved wiring system gives positive protection against shocks and short circuits. With 6-foot Underwriters' approved rubber cord. Finger type switch. Complete with extra collet for 3/8" shank, two emery wheels and one felt buffer.

Shpg. wt., 4 lbs. **A2124. Complete. NET \$4.25**

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. Ideal for the experimenter or small factory. Hand-powered. Shpg. wt., 4 lbs.

A9302. NET PRICE \$4.35

TAP AND DIE SET



Supplied with most popular size dies for general purpose use. Wooden box contains three cutting dies 1/4", 3/8", and 1/2", with plug and hand taps to match; tap wrench; and die holder. All parts of finest tempered steel. Shpg. wt., 3 lbs.

A2114. S.A.E. Thread. \$1.25
A2115. U.S.S. Thread.

FRICITION TAPE

Made of good quality fabric impregnated with an adhesive rubber compound. Has high insulation qualities. Easy to apply; will not dry out. Black in color. Rolls come in 1/2" width.

A7705. 2 Oz. Roll. 6c
A7706. 4 Oz. Roll. NET 9c
A7707. 8 Oz. Roll. NET 17c

SCOTCH ELECTRIC TAPE

A tough flexible tape with high insulation value. Paper backing with sensitive adhesive coating. 1/2" wide. 10 yard roll.

A7708. NET \$2.95

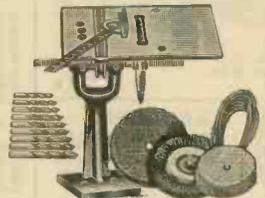
RUBBER HANDLE CAP

Unbreakable soft rubber attachment plug cap. Strong, durable, and convenient. Sturdy brass blades. Approved type.

A3978. NET 4c
PER 10. 35c



POLISHING HEAD OUTFIT



A complete polishing kit for home or shop. By using a 1/2 to 1/4 horsepower motor, it makes an efficient outfit for polishing, 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 two-speed pulley. Chuck has a capacity of 3/8". The 3 spring controlled case-hardened chuck jaws hold drill in dead center. The two steel flanges are milled flat so as to hold stones, scratch brushes, etc., squarely against material being worked. Saw table clamps securely to polishing head. Red enamel finish. Shpg. wt., 8 lbs.

A2111. Complete. NET \$3.35
A2112. Polishing head and chuck only. NET \$1.95

TOUCH-UP SPRAYER

Ideal for painting panels, cabinets, furniture, toys, etc. This sprayer is designed to operate efficiently from a very low pressure source such as a spare automobile tire. It is equipped with an air-tight brass valve, an adjustable brass spray tip, a rubber hose, and a 2-ounce paint jar. Sprays lacquer, paint, varnish, shellac, or any other finely mixed, free-flowing liquid. Wt., 5 lbs.

A2113. NET PRICE \$5.95



RADIO TOOL CHEST



This handy chest contains 10 handy, sturdy tools for the serviceman or set-builder. Consists of: 3 and 5" screwdrivers, scriber, reamer, lacquer, paint, counter-punch, socket wrench sets for hexagon and knurled nuts, and 3 hexagon nut wrenches from 1/4 to 1/2". Shpg. wt., 2 lbs.

A7691. NET \$2.25

POCKET TOOL CASE

A high-grade, two partition case that can be carried in the hip pocket. Will hold generous assortment of small tools. Genuine leather, double-sewed, with snap-on flap. Saves wear and tear on pockets. A handy case for the Serviceman.

A1643. NET \$5.95



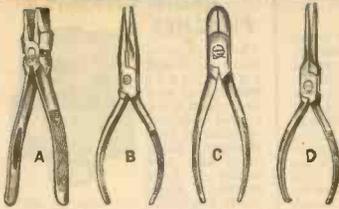
NEW PRES-TO OILER

A handy new general-purpose oiler — made like a fountain pen. Ideal for use where conventional oiler would not serve. Control and tuning shafts, small rotating equipment and similar applications easily accessible with this oiler. Transparent reservoir. Complete with supply of oil.

A1621. NET \$3.85



Values in POPULAR TOOLS



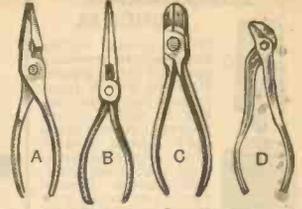
KRAEUTER PLIERS

The famous top-notch quality Kraeuter pliers are made to exacting specifications. Have new Blue Tempered finish, the secret of long-lasting high quality tools. Scientifically heat-treated and hardened. Fine American-made tools.

TYPE A	TYPE B	TYPE C	TYPE C	TYPE D
6 Inch Electrician's Type Pliers. A7807. NET	6 Inch Needle-Nose Side Cutter. A7806. NET	5 Inch Diagonal Cutter Pliers. A7805. NET	6 Inch Diagonal Cutter Pliers. A7805. NET	6 Inch Needle-Nose Type Pliers. A7803. NET
74¢	91¢	82¢	\$1 ⁰⁸	\$1 ²⁰

POPULAR-PRICED RADIO PLIERS

Fine values in American-made pliers for radio and electrical work. Carefully made of hardened steel; stoutly built to give long, reliable service. Every serviceman, experimenter, and Amateur can use these pliers to good advantage. Offered in four types for every requirement at attractively low prices.



TYPE A	TYPE B	TYPE C	TYPE D
6 Inch Thin Nose Type Pliers. A7801. NET	5 Inch Special Long Nose Side-Cutting Pliers. A7802. NET	5 1/2 Inch Diagonal Cutting Pliers. A7800. NET	Midget Pliers; 4 Adjustments Up to 3/8". A7709. NET
32¢	38¢	32¢	25¢

HANDY ALL-PURPOSE SCREWDRIVERS



SUNDT "FIRE-DEVIL" NEON SCREWDRIVERS

A versatile new tool that combines a fine quality screwdriver with a built-in sensitive neon tube. Tube mounted in handle glows when contact is made. Chromium finished steel blade; transparent amber handle.

A7880. 4 1/4" overall. Handle, 1 1/4". Blade, 2 1/2". Insulated for 5000 volts. NET EACH. 24¢
12 FOR \$2.60

A7881. 7" overall. Handle, 3 3/4". Blade, 3 1/2". Insulated for 15,000 volts. NET EACH. 59¢
6 FOR \$3.18



HOLD-E-ZEE SCREWDRIVERS

New screwdrivers with spring action gripper that holds, starts, and sets up screws in awkward places. Once screw is set, gripper slides out of way. With chrome vanadium steel blades and transparent amber handles.

A7885. 3" Blade. NET 33¢
A7886. 4" Blade. NET 43¢
A7887. 6" Blade. NET 46¢
A7888. 10" Blade. NET 46¢

FOR RECESSED HEAD SCREWS

Special designed to fit snugly into recessed head screws. Has 6" chrome vanadium blade and insulated unbreakable handle. 10 1/4" overall.

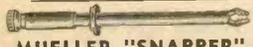
A7889. 6" Blade. NET 52¢



HEAVY-DUTY 20000 VOLT INSULATED SCREWDRIVER

A new Stanley screwdriver built for greater safety. Cohardite insulated all the way up the blade to within 3/8" of point. Tested to 20,000 volts. Ideal for television work or wherever high voltages are present. Has flared tip; steel blade. Overall length, 7 1/4". American-made.

A7890. NET 98¢



MUELLER "SNAPPER"

May be used to start nuts and screws in out-of-the-way places, as test clip in inaccessible spots, or as a prod contact. Push-button top opens and closes universal clip. American-made.

A6483. RED. EACH 38¢
A6484. BLACK. EACH 38¢



GRIP-IT SCREW HOLDERS

A simple easy attachment that will make any screwdriver a screw-holding type. Simply slip on the holder that fits your screw driver, and it is ready for work. In sets of 3 sizes to fit all screwdrivers. American-made.

A5470. Set of 3. PER SET 15¢



FIRM-GRIP SCREWDRIVERS

Forged chrome-vanadium alloy steel blades, accurately ground to fit screw slot. Tough Amberlite handles. American-made.

A7715. 3 INCH BLADE. YOUR PRICE 30¢
A7716. 6 INCH BLADE. YOUR PRICE 38¢
A7717. 8 INCH BLADE. YOUR PRICE 42¢



INSULATED BLADE TYPES

10,000 volt insulated screwdrivers. Red and black composition handle. High quality steel blade insulated almost entire length. American-made.

A7698. 5 INCH BLADE. 14¢
A7699. 6 1/2 INCH BLADE. 18¢
YOUR PRICE



NON-SKID SCREWDRIVERS

Shock-proof, with ribbed points. Handy fountain-pen style with clip. American-made.

A7712. 3 INCH BLADE. 10 FOR \$1.08. NET EACH 12¢
A7711. 2 INCH BLADE. 10 FOR 99¢. NET EACH 11¢
A7710. 1 1/2 INCH BLADE. 10 FOR 99¢. NET EACH 10¢



MIDGET SET SCREWDRIVERS

Shaped to fit into set screws of knobs and to balance trimmers. Overall length, 4 3/8". Specially hardened blade, 2 1/4" long. Amber handle with clip. American-made.

A7895. 10 FOR 81¢. EACH 9¢
A7896. 6" long; 3 1/2" blade. Less clip. 10 FOR \$1.08. EACH 12¢

FLEXIBLE SHAFT SCREWDRIVER

Here is a screwdriver that will eliminate a lot of skinned knuckles. Special flexible shaft allows its use in many awkward out-of-the-way places. Has insulated movable screw locator, fluted molded handle. 8 3/4" long. American-made.

A7739. NET 88¢

HANDY 3 UNIT SCREWDRIVER KIT

A popular kit of three screwdrivers in the most useful sizes. Comes in convenient leatherette holder for shop wall mounting. Each screwdriver has insulated handle and finger guard. Blades measure 5 1/2", 3 1/2", 2 3/8". American-made. This is one of our most popular tool kits. A very fine value.

A7719. NET 38¢

LENK BLOW TORCHES



HI-HEAT BLOTORCH

This heavy-duty American-made blow torch assures perfect results. Features flame control, shut-off valve and non-clogging burner. Fool-proof in design and construction; self-cleaning type. Generates quickly from asbestos-filled drip-cup. Produces a 2000° F. flame. Tank is heavy gauge seamless drawn brass, with funnel shaped bottom. Height 7 1/2 inches; diameter at base 3 inches. Type 104 uses gasoline. Shpg. wt., 3 lbs.

A6224. Type 104. NET \$1.30
A6223. Type 105. NET \$1.47
Uses alcohol.



NO. 24 BLOTORCH

This efficient torch is entirely automatic in operation. Uses alcohol for fuel. Has copper heat conductor for quick generation of gas. Made of nickel-plated brass. Solid leakproof base. Ideal for shop use. Handy size, 5 1/2" x 2 1/4" x 1". Shpg. wt., 2 lbs.

A6221. NET 69¢



IMP GASOLINE HAND TORCH

Entirely automatic gasoline hand torch. Flame temperature over 2000° F. Has priming cup. No pumping or blowing necessary. Ideal for use where fusing or brazing heat is required. Shpg. wt., 2 lbs.

A6226. NET 72¢



UTILITY ALCOHOL LAMP

A portable alcohol lamp, ideal for cabinet finishing work, repair work, lab use, etc. Produces hot, steady flame. Of nickel-plated seamless drawn brass; funnel shaped base. 1/2 pint capacity. Shpg. wt., 2 lbs.

A6222. NET 75¢



"PHILLIPS" SCREWDRIVERS

Recessed head screwdrivers; indispensable for servicing many new sets which use this type of screw. Standard wood handles.

A7891. 3". For No. 4 and smaller. NET 22¢
A7892. 4". For Nos. 5 to 9 sizes. NET 24¢
A7893. 6". For Nos. 10 to 16 sizes. NET 28¢



END-WRENCH SET

A handy little end-wrench set with many uses. Cadmium-plated; cannot rust. Wrenches are 1/4" x 3/8", 3/8" x 1/2", and 1/2" with alligator jaw. American-made.

A2078. Complete set of 3 Wrenches. NET 10¢

Quality

TOOLS FOR EVERY PURPOSE

SELF-ALIGNING PUNCHES



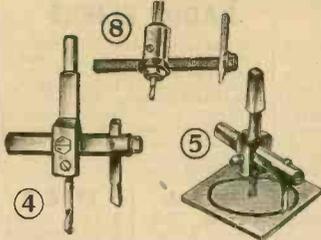
New patented spring construction prevents shearing die or punch. Easy to use in locations where hole cannot be drilled. Contoured cutting edges make clean round holes. Made of hardened high-grade steel. Self-aligning feature requires only pilot punch instead of hole for centering. Is ideal for condenser and socket holes. Punches are all American-made.

CAT. NO.	HOLE DIA.	NET EACH
A4970	3/8"	\$1.67
A4971	7/8"	
A4972	1 1/8"	
A4973	1 1/2"	
A4974	1 3/4"	

CLIPITTE PUNCHES

Designed to cut holes in chassis for "Clipitite" tube sockets. Provides locking key in chassis which prevents socket from turning. 1 1/4" standard. \$2.94

ALL-PURPOSE CIRCLE CUTTERS



Designed to cut large holes accurately and quickly. May be used in slow-speed drill press or ordinary hand-brace. Type No. 5 is designed for heavy-duty work; Type No. 4 is a standard professional cutter, heavy bar construction; Junior type is for light work on softer materials. Will cut holes in wood, bakelite, hard rubber, tin, sheet metal, etc. Fine values in American-made tools.

- A7731, No. 4.** Professional model. High quality ameter in all types of materials. Ideal for general use. NET... **\$1.25**
- A7730, Junior.** Not illustrated. Cuts holes 3/8" to 2 1/2" in diameter. Suitable for light duty cutting in metal and chassis. NET... **78c**
- A7732, No. 5, Square Shank.** Heavy-duty type cutter. Cuts holes 1" to 5 1/2" in diameter in bakelite or metal panels. NET... **\$1.88**
- A7733, No. 5, Round Shank.** Same as No. 5 above, but with round shank for use in power drill chuck. Cuts holes from 1" to 5 1/2". NET... **\$1.88**
- A7735, Cutter Blades.** Extra blades for No. 4 and No. 5 cutters listed above. Made of finest tool steel, hardened for long wear. NET... **24c**
- A7723, No. 8, 1 1/4" to 8" Circle Cutter.** All-purpose cutter of high-grade hardened steel. Fits brace or chuck. Cuts metal, bakelite, etc. NET... **\$2.35**

RADIO CHASSIS PUNCHES



These punches offer a simple and speedy method of cutting clean socket and condenser holes in metal chassis. Eliminate the necessity of hammering. Especially desirable for making additional holes in an assembled chassis where the shock of hammer blows might injure mounted components. A few turns of the cap screw quickly punches a clean smooth hole by a shearing action. Precision-made of oil-hardened tool steel. Ideal for all general purpose requirements. Specify sizes desired when ordering. American-made quality tools that will give dependable service.

CAT. NO.	DIA.	EACH
A4975	3/8"	\$1.37
A4976	7/8"	
A4977	1 1/8"	\$1.64
A4978	1 1/2"	
A4979	1 3/4"	\$1.83
A4980	2"	
A4981, Extra 3/8" Cap Screws.		NET... 17c

HIGH-GRADE SOCKET WRENCH SELECTION



SPIN-TYPE WRENCHES

High grade hexagon socket wrenches for every radio requirement. Sockets of hardened tool steel designed to grip surely. Shanks are cadmium-plated steel with ribbed easy-to-grip wooden handles. Offset type reaches into tight places. American-made.

Nut Size	6" Straight	9" Straight	6" Offset
3/16"	A2062	A2062	A2069
1/8"	A2056	A2063	A2070
5/16"	A2057	A2064	A2071
3/8"	A2058	A2065	A2072
7/16"	A2059	A2066	A2073
1/2"	A2060	A2067	A2074

NET EACH... **10c** Set of 6... **52c** NET EACH... **12c** Set of 6... **62c**

SOCKET WRENCH SET AND SCREWDRIVER



A set of 9 sockets in assorted sizes to handle hex, square, and round nuts. Consists of 1-1/4" hex socket mounted on 3/4" straight extension; 5 hex sockets in 1/4", 3/8", 1/2", 5/8", and 3/4" sizes. 2 square sockets in 1/4" and 3/8" sizes. 1 round nut socket, 1 "L" shaped extension, 4" long, and 1 screwdriver wrench handle. Patented locking device holds tools firmly to handle. Wt., 4 lbs. **A5516. YOUR PRICE... 73c**



AMBER HANDLE WRENCHES

A complete selection of high-grade socket wrenches for every radio requirement. Sockets are of hardened tool steel. Shafts are hollow to take any size screw. Handle is of unbreakable amber-colored plastic, ribbed for easy gripping and fully shockproof. Sizes listed will handle all standard nut sizes used in radio work. Each wrench is 7 1/2" in length. These are highest quality American-made tools.

No.	Size	No.	Size
A2080	3/8"	A2084	3/8"
A2081	1/2"	A2085	1/2"
A2082	5/8"	A2086	5/8"
A2083	1 1/2"		

YOUR PRICE EACH... 35c
A2087, Complete set of 7 wrenches, NET... \$2.21

VOLUME CONTROL WRENCH

A wrench similar to those above, designed for hexagonal nuts measuring 3/8" across flats. Case-hardened steel socket. Ideal for volume control nuts. **A1601. YOUR NET PRICE... 59c**

SOCKET WRENCH SET



Set of 5 detachable sockets of wrought steel. With wrench handle. Sizes: 3/8", 1/2", 5/8", 3/4", and 1 1/2" inch. Exceptional wrench set value. **A7690. NET PRICE... 36c**

HOLLOW HANDLE SET



Ideal for shop and tool bag. Hollow handle holds all sockets. Sizes, 1/4", 3/8", 1/2", 5/8", 3/4", and 1 1/2" inch. Exceptional wrench set value. **A7737. YOUR PRICE... 48c**

TAPERED REAMER



This repairman's tool is a long tapered reamer for use wherever holes are to be enlarged in sheet metal, steel, or bakelite. Made of the highest grade heat-treated tool steel. Shank fitted with T-type handle. Overall length, 5 3/4 inches; taper 3/4 inches. Small end diameter, 1/2 inch; large end, 1/2 inch. **A7872. YOUR PRICE... 69c**

ICA RIVET & EYELET PUNCH SET



A universal tool for resetting any size eyelet or rivet. Heavy cast-iron anvil has hexagonal sides; may be clamped in a vise. Setting of hardened tool-steel produce a clean, factory-like job. **A1616. NET... \$1.32**

ICA SQUARE HOLE SHEARING PUNCH



A hammer is the only tool necessary with this punch. Permits cutting any size odd shape hole (square, rectangular, hexagon, etc.) on panels or chassis of any metal up to No. 14 gauge thickness for enlarging or punching transformer holes, etc. **A7729. YOUR PRICE... \$5.58**

MICROMETERS



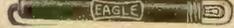
Precision-built; accurate to 1/1000 of an inch. Hardened steel construction. Zero setting in dial. Highly polished chrome finish. Standard 1" size. Ideal for measuring crystals. Shpg. wt., 1 lb. **A8777. NET... 98c**
A7878, 1/2" Size, Precision-built exactly as above. NET... 49c

DRILL & WIRE GAUGE



A handy, accurate drill gauge of polished, tempered steel. Has index on face for machine screw taps. Sizes are given in decimal equivalents and size number. Size of wire in standard B. & S. gauge may be found by obtaining decimal equivalent from this gauge and comparing with decimal sizes given in B. & S. table. **A1620. NET... 95c**

RADIO REPAIR LIGHT



A handy tool designed to save time and trouble. Provides light where you want it. Fountain-pen size. For 110 volts A.C. or D.C. An essential tool. With bulb. **A1668. NET... 88c**

KEYHOLE HACKSAW



A handy tool for general use in the home and workshop. Easily cuts all metals, woods, plaster, wallboard, conduit, metal lath, etc. Pistol grip and thumb-rest give firm hold. With 7 1/2" interchangeable, 18-tooth saw blade. Shpg. wt., 1 lb. **A7870, Frame and Blade, NET... 22c**
A7871, Extra Blades for above, 6 FOR 54c. NET EACH... 10c

HOME TOOL SET



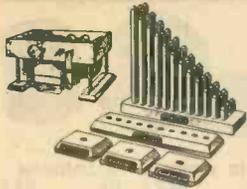
A handy home tool set. Will find numerous applications in repair and maintenance of electrical fixtures, mechanical toys, sewing machines, radio receivers, etc. Blades made of fine tool steel hardened throughout. Consists of one 2 1/2" x 3/8" screwdriver with mahogany finish, knob type handle; one 2 1/2" scratch awl with same type handle; and one gimlet with straight bar natural finish handle. Weight, 1 lb. **A7875. 10 FOR \$2.25. EACH... 25c**

WIRE STRIPPER



This efficient, time-saving tool strips insulation from wire easily and cleanly. Has tempered steel cutting edge. Shpg. wt., 1 lb. American made. **A7722. NET... 9c**

Values in POPULAR TOOLS



"RADIOJAC" CHASSIS SUPPORT

The ideal tool to support radio and amplifier chassis. Designed to hold any chassis firmly. Spring-tight fit between rod and base assures rigid support. Chassis may be turned without interfering with speaker leads. Bench stand supplied contains 36 hardwood rods from 1 1/2 to 8 inches in length, allowing selection of most convenient size. Rods are inserted in bases; chassis rests on top of rods. Radiojac complete includes bench-stand, 36 hardwood rods, 1 large and 3 small bases. Shpg. wt., 2 lbs.

A1697. **NET. \$1.57**

ALL-STEEL PARTS CABINETS

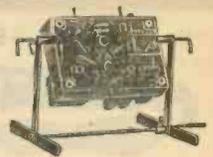


Popular small-parts cabinets for the numerous items necessary in a service shop. Drawers have separators for different size items. Low-cost storage cabinets of universal utility.

A10605, FIG. A. Utility Cabinet. Six large drawers sectioned in convenient compartments. Dark-green ripple-finish. Size, 13 1/4" long 10 1/8" wide and 11 1/4" high. Space for index tabs. Shpg. **\$3.45** wt., 20 lbs. NET.

A10606, FIG. A. As above, but smaller in size. Measures 8" long, 6" wide, and 9" high. Contains six drawers, each 5"x8", with separators. Shpg. wt., 6 lbs. **\$1.76** NET.

A10607, FIG. B. A 4 drawer all-steel cabinet. Size, 8 1/4" long, 5 1/4" wide, 6" high. Each drawer measures 4 1/4" by 8". 3 drawers have separators. Shpg. wt., 4 lbs. **88c.** NET.



POPULAR AGRO CHASSIS CRADLE

An absolute necessity for efficient radio servicing. Permits placing any radio set or amplifier chassis in any position to allow easy test or replacement of parts. Prevents damage to tubes and other mounted parts. All parts of the chassis are easily accessible. Special mechanical clamp holds chassis firmly in place; cannot slip. Ideal for aligning receivers while set is operating or for easy access to wiring. Adjustable base accommodates any size chassis up to 21" long. Made of cold-rolled heavy steel. Shpg. wt., 5 lbs.

A1617. **YOUR PRICE. \$3.25**

A1618. Extra set of clamps. **NET. \$2.40**

NEW DAVY FOOTSWITCH



This very convenient device meets the rigid requirements of a momentary contact, trigger-type switch. Underwriters' Approved. 750 watt capacity. Ideal for photo work, etc. Simply plug switch into nearest outlet and connect plug of device being controlled into receptacle on foot switch. Black crystal finish; plated top and lever with anti-skid rubber base. Wt. 2 lbs.

A1696. With cord and plug. **NET. \$1.96**

MASTER STEEL TAPE RULES



INSIDE MEASURE—BUTTON LOCK

A new steel tape rule for inside, outside, height, depth, and layout measurements. Attractive, rust-proof nickel-plated zinc case. Rule has double-edge marking. 1/2" tap case; 6 feet long. Light weight. American-made.

A1690. **NET. 93c.**

A1691. In round metal case without lock or inside measure. **NET. 56c.**



JUSTRITE SOLDERING IRON AND BLOWTORCH

A combination torch and iron with unusual versatility. Will operate for 30 minutes with wide valve open on one filling of 1 1/2 oz. of gasoline, naphtha, or benzene. Heavy brass shell to withstand high pressures. Bakelite casing over shell for cool easy grip. Wt., 1 1/4 lbs. 12 1/2" long.

A6220. **YOUR PRICE. \$2.95**



REPAIR CEMENT

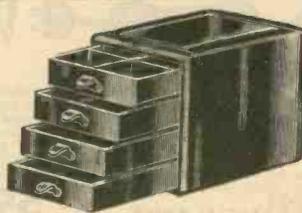
Used for repairing loose coils and speaker cones. Rapid drying. Kit consists of one can of cement, one can of thinner, and a brush.

A2930. **NET. 34c.**

BAKELITE CEMENT

For cementing bakelite to bakelite or to other materials. Handy for radio repair and building.

A5552, 2 Oz. Can. **NET. 21c**
A5553, 8 Oz. Can. **NET. 66c**



STEELMASTER CHEST

This utility cabinet is an ideal case for filing small items and parts of every type. Indispensable for home workshops, stockrooms, garages and service stations, radio service shops, etc. Chest is of modern streamline design. Over-all size, 5 1/2" wide, 8" deep, 7 1/4" high. Made of pressed metal, rounded and beveled. No screws or bolts used in construction. Has hard-baked olive-green enamel finish. Four easy-slide drawers are divided into compartments. Shpg. wt., 4 lbs. An exceptional value.

A10972. List, \$1.00. **NET EACH. 88c.**
LOTS OF 6, EACH. **79c**

NEW SPIN-A-BIN



This novel cabinet provides a modern way to keep track of the numerous small parts that always represent a storage problem in the service shop. Nuts, screws, sockets, condensers, resistors, volume controls—in fact, practically every component necessary in service and repair can be conveniently stored, indexed, and kept ready for instant use. May be used on a store counter to house rapidly moving merchandise which must be readily accessible. Also suitable for joint use by a number of workmen on a production line.

24 HANDY BINS

SPIN-A-BINS are made in two standard models, each containing 24 bins. Welded steel construction. Revolves on a spindle supported by a heavy cast-iron base. Attractively finished in green enamel. Made of 26 gauge steel; built to give lasting service. Shpg. wt., 18 lbs.

A10973, 24 3-Inch Bins. **\$4.45** NET

A10974, 24 4-Inch Bins. **\$6.21** Shpg. wt., 30 lbs. NET.

G.C. CABINET REPAIR KIT



Here is a practical, inexpensive repair kit that will meet any emergency or do any cabinet repair job. With this versatile kit you can repair dents, scratches, or nicks on wood, plastic, or bakelite cabinets, knobs, etc. Complete kit consists of: an assortment of 9 shades of shellac sticks; bottles of light and dark oil of stain; metal shading lacquer; polish; Magic Scratch Remover; alcohol lamp; spatula; touch-up brushes; steel wool; sandpaper; and wiping cloth. In handy box.

Shpg. wt., 4 lbs. **\$1.91**
A7648. **NET.**

HANDY SCRATCH REMOVER

Handy scratch remover for use in touching up scratches and marred surfaces on receiver cabinets and other articles of furniture. Convenient stick has filler in one end for building up scratch to level of original finish. Other end is a combination polish and stain.

A7600. **NET. 22c.**

HANDY CLAMP LAMP

A very handy lamp for supplying light when servicing radio receivers. Clamps on side of cabinet or chassis. Double ball swivel bracket allows adjustment to any angle. Rubber covered clamp prevents marring cabinet. Positive action, push-through switch. Shade dia. 5 1/2" —takes any size bulb. Less bulb. Wt., 2 lbs.

A1606. **NET. 98c.**

NEW FLOATING BENCH LAMP

This new bench lamp has a remarkable flexibility of action which directs light exactly where desired. Both arms are balanced by a spring action which prevents recoil or slipping. Arm has a horizontal extension of 34" above and 26" below base; rotates throughout 360° at base. Arm is of cold-rolled steel tubing, drawn steel wire, and malleable iron castings. Has cast-iron base for clamping to desk or table. 9-foot cord and plug. Less bulb. Shpg. wt., 5 lbs. **\$7.35**
A1695. **NET.**

SOLDERING IRONS & ACCESSORIES

KNIGHT SOLDERING IRONS



UNDERWRITERS' APPROVED—WITH STAND

Here is a splendid value in an efficiently designed, sturdily built soldering iron at an exceptionally low price. This new Knight Soldering Iron is Underwriters' Approved and has extra safety factors built in. Special features include: replaceable screw-on type hard drawn copper tip; black rubberoid handle, shaped for easy gripping; tough, well-finished nickel-plated case; 6-foot cord with spring cord protector and unbreakable rubber plug. A convenient metal stand is included with all models. This high quality iron is built to give long, dependable service and to stand up under heavy use. All models operate from A.C. or D.C. Shpg. wt. each, 3 lbs. A soldering iron value that's hard to duplicate.

75 WATT IRON		100 WATT IRON	
A6125. For 110-120 Volts. NET.....	\$1.32	A6127. For 110-120 Volts. NET.....	\$1.91
A6126. For 220-250 Volts. NET.....	\$1.47	A6128. For 220-250 Volts. NET.....	\$1.98

KESTER SOLDERS

Compounded of the highest grade tin and lead. Flux filling assures perfect permanent joints free from corrosion. Aluminum solder absolutely holds aluminum. Save money—buy the handy one or five pound spools.



Quantity Per Tin	RO SIN CORE		ACID CORE		ALUMINUM	
	No.	NET	No.	NET	No.	NET
1 lb. spool	A6173	17c	A6176	17c	A6180	17c
5 lb. spool	A6177	60c	A6175	60c	A6179	\$1.93
	A6154	\$2.80	A6153	\$2.80		

SOLDERING PASTE



A new improved soldering paste. Does a clean, non-corrosive job of soldering. Uniform quality and uniform fluxing strength make it ideal for radio work.

A6181. PER TIN.....	12c
10 FOR.....	\$1.05

TINNING BLOCK

Cleans and "tins" soldering irons or coppers very quickly. Replaces ordinary sal ammoniac. Won't crumble or corrode. Convenient to use.



A6185. 1/4 lb. NET.....	25c
A6186. 1/2 lb. NET.....	40c
A6187. 1 lb. NET.....	65c



DRAKE SOLDERING IRONS

Underwriters' Tested and Approved. A sturdy dependable iron 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; reaches soldering heat quickly. Removable plunger type tip with set screw. With 6 foot approved cord and 7" iron stand.

A2203. 80 Watt. Length 13"; tip diameter 3/8". Wt., 1 1/4 lbs. List, \$3.15. YOUR PRICE.....	\$1.81
A2204. 100 Watt. Length 12 1/2"; tip diameter 3/8". Wt., 1 1/2 lbs. List, \$3.75. YOUR PRICE.....	\$2.15
A2205. 80 Watt. Length 14"; tip diameter 3/8". Wt., 2 lbs. List, \$7.50. YOUR PRICE.....	\$3.90



AMERICAN BEAUTY IRONS

Type 3138. Adapted for production work on radio, ignition, telephone, etc. 100 Watt; 16 oz.; length 12 3/4"; tip dia. 3/8". 6 foot cord. Shpg. wt., 1 1/4 lbs.

A2000. List, \$7.20. NET.....	\$5.85
Type S-76. Light and compact. Heats quickly. Screw type removable tip. 50 Watt. 6 oz.; length 11 1/2"; chisel point tip 3/8". With 6 foot cord. A2001. List, \$4.50. NET.....	\$3.45
A2002. Extra 3/8" tip for Type 3138 iron. NET.....	39c
A2003. Extra tip for Type S-76 Soldering Iron. NET.....	21c



MAGIC STYLUS SOLDERING PENCIL

A new, small, easy-to-handle soldering tool. Ideal for soldering small parts in hard-to-reach corners. Heats quickly. Insulated handle with cork finger guard provides cool handling all-ways. With 5 ft. cord. Underwriters' Approved.

A6150. 110 Volt A.C. or D.C. (Storage Battery.) NET EACH.....	72c
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25 WATT PENCIL

A6004. 110 Volt A.C.-D.C. Extra-heavy-duty soldering pencil. Has 1/4" tip. Brass-wound, mica-covered element. With 3 tips, 6 ft. rubber cord, and stand. NET.....

A6003. 40 Watt Pencil. 110 Volt A.C.-D.C. Has 3/8" tip with set screw; brass-wound, mica insulated element; 6 foot approved rubber cord. NET.....	\$1.15
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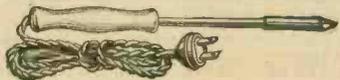
SPECIAL IRON VALUES



55 WATT 2-TIP IRON

A well-designed iron suitable for every service use. Has wire-wound element in ceramic tube. Two types of tips are supplied with iron to handle all work from fine soldering to tinning of chassis bases. Tips are 1 1/2" long, 3/8" and 3/16" dia. With 3 foot heater cord and rubber plug. An outstanding value at this special low price. Shpg. wt., 3 lbs. A6005. YOUR SPECIAL PRICE.....

100 WATT IRON	59c
A high quality all-purpose iron. Has one 3/8" dia. replaceable screw-on type copper tip. Heats up quickly; stays hot. Black insulated handle. With 6 foot heater cord. Shpg. wt., 3 lbs. A6006. NET.....	95c



MARVEL ELECTRIC IRON

A high quality soldering iron, ideal for general radio and light soldering work. Has a Nichrome wire element, mounted in a twin sleeve porcelain tube. Equipped with a good-quality 2-inch copper tip. With brown-finished, stay-cool handle and 3 foot Underwriters' approved flexible cord. Only 10 inches long. For 110 volt A.C. or D.C. operation. Easy to use; retains heat efficiently. A6008. NET EACH.....

YOUR SPECIAL PRICE PER DOZEN.....	\$3.05
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NEW 7-INCH STAND WITH "MAGIC CUP"

Here's a new idea in a soldering iron stand that will save you time and keep your iron in best working condition. The 7-inch sturdily made metal stand has a "magic cup" built in at one end. Just insert the tip of your iron into the cup and in a few seconds all oxide is removed from the tip. Convenient to use; adds to the working life of soldering iron tip. A2209. NET.....

A2206. As above, but less cup. NET.....	15c
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SOLDERING IRON TIPS

High quality replacement plunger type copper tips in sizes to fit all standard irons. Make your soldering iron as good as new.

No.	Size	NET EA.
A5997	1/16x2 1/8"	24c
A5998	3/16x2 1/8"	29c
A5999	1/8x3 1/8"	27c



ICA SOLDERING IRONS

A well-designed, practical soldering iron. Heating element is of the highest quality resistance wire. Will heat in three minutes. Handle remains cool. Plunger tip is easily removed for cleaning or replacement. With cord and plug. Snap-on soldering iron holder supplied free.

A5520. 60 WATT. Developed for radio work. Shpg. wt., 2 lbs. List, \$3.75. YOUR PRICE.....	\$1.95
A5522. 85 WATT. A good general-purpose iron. Shpg. wt., 2 1/2 lbs. List, \$4.50. YOUR PRICE.....	\$2.38
A5521. 115 WATT. Heavy Duty type; has 3/8" plunger type tip of adjustable length. Shpg. wt., 2 lbs. List, \$5.50. YOUR PRICE.....	\$2.95



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. Both types are furnished with 6 foot cords. Shpg. wt., 1 1/2 lbs. each.

A6000. 75 Watt. With 3/8" copper rod tip with set screw. Nickel-plated tube. Shpg. wt., 1 1/2 lbs. YOUR PRICE.....	\$1.76
A6001. 100 Watt. With 3/8" copper tip. 12 1/2" long, with removable black handle. YOUR PRICE.....	\$2.40



ESICO SOLDERING IRONS

Well-known high quality irons with one-piece blued steel cases, replaceable forged copper tips, and nickel chrome elements wound on mica insulation. Handles of rich, dark mahogany. With approved 5 foot cord and rubber plug. 110 V. A.C.-D.C.

A6122. 55 WATT "NICK-NACK." 3/8" dia. tip. 11 1/2" long. Shpg. wt., 2 lbs. NET.....	65c
A6123. 65 WATT "MIDGET." 3/8" dia. tip. 11 1/2" long. Shpg. wt., 3 lbs. NET.....	\$1.03
A6124. 100 WATT "JUNIOR." 3/8" dia. tip. 12 1/2" long. Shpg. wt., 3 lbs. NET.....	\$1.62

GARDINER ROSIN CORE SOLDER

A dependable, rosin-core solder developed especially for delicate electrical and radio work. 3 oz. can.



A6183. PER CAN.....	12c
A6184. 1 LB. SPOOL.....	56c

ELECTRIC FENCES & ACCESSORIES

NEW ELECTRONIC 2 TUBE ELECTRIC FENCE CONTROLLER

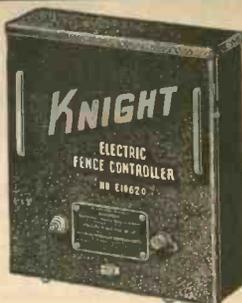


One of the safest and most dependable Electric Fence Controllers yet developed. Construction conforms with most advanced engineering principles. Equipped with exceptional and exclusive new features which insure long dependable operation even under the most adverse conditions. Operates directly from 110 volt, 60 cycle A.C. line. Farmers and stockmen are sold on the effectiveness and economy of this method of stock control. Designed to comply with the most rigid safety regulations—built-in current limiting resistors are used to assure safe voltages

at all times. Special features: (1) No moving parts—nothing to wear out or get out of order. (2) Special built-in safety transformer which assures maximum safety and efficiency at all times. (3) Current is controlled by two two-element radio tubes for dependable operation. (4) Built-in current limiting resistors assure absolutely safe voltage at all times. (5) Has built-in Signal Light to indicate fence operation and to test for shorts, wire down, etc. If fence wire is thoroughly insulated, bulb flashes at regular intervals. If wire is down or poorly insulated, bulb flashes excessive leakage on the fence, light will not flash, indicating a short circuit. (6) Transformer is sealed in against weather. (7) Container is built of metal to be absolutely weather-proof against the elements. (8) The complete Fence Controller is shielded against radio and telephone interference. (9) All metal parts are absolutely rustproof. (10) A Neon Tester is included with Controller. The absence of moving parts and vibrator contact points assures high efficiency because of the frictionless operation. Operates only when wire is short-circuited by animals touching the fence. Furnished complete with tubes, in weather-proof case illustrated. Shipping weight, 13½ lbs.

A10971 List. \$22.95. **YOUR NET PRICE.....\$13.50**

KNIGHT LOW-COST AUTOMATIC ELECTRIC FENCE CONTROLLER



Here is today's low-cost answer to the farm fencing problem. Install a Knight Electric Fence Controller and save. Save on wire: With this new Electric Fence only one wire (or two at most)—instead of two or three—is required to hold in livestock. Save on Posts: With the Knight Controller, short light stakes placed 50 feet apart will serve for any length of fence. Gate-latch listed below makes a gate out of any section of wire. Save on labor: One man can easily fence 20 acres a day. The A.C. type draws no more than 7 watts. A "Hot-Shot" type dry cell battery will operate the D.C. controller for about 4 months, or even longer if used intermittently. For use with all livestock. The Knight Electric Fence Controller employs a unique system of current control on the fence. The current cannot increase beyond a safe limit. The fence voltage is high enough to be practical in all weather. Only the usual precautions of making a good ground connection must be followed. If this is done, the Knight Electric Fence Control will effectively handle 15 miles of wire. The Knight Fence Controller is approved by the Wisconsin Industrial Commission and conforms to that state's Electric Fence laws. The standard model 6 volt unit is equipped with a built-in battery compartment which will take either "Hot-Shot" battery or conventional dry cells. In attractive red metal case. 11"x12"x3½". Shpg. wt., 12 lbs.

A10620. Complete 6 Volt Model. Less battery. **\$8.65**
NET PRICE.....
A10622. 110 VOLT CONVERTER. Adapts above Fence Controller to 110 Volts A.C. NET..... **\$5.40**
A10621. 32 VOLT CONVERTER. Adapts above Fence Controller to 32 V. D.C. Systems. NET..... **\$5.25**

A COMPLETE SELECTION OF ELECTRIC FENCE ACCESSORIES

A14101. High-grade knob type glazed porcelain insulators for insulating electric wire from fence posts. 100 FOR..... **95c**

A14102. Dependable insulators for insulating electric wire at fence corners. NET EACH..... **2½c**

A14100. Special Insulator Kit. Consists of 50 fence post insulators and 4 corner post insulators. Complete with leather washers. Shpg. wt., 5½ lbs. NET..... **63c**

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A10007. Ground Rod. 8 ft. long 1" dia. Express. \$2.49 Galvanized. NET..... **\$2.49**

A10008. Ives Extension Bracket. For attaching electric wire to existing fences. Protects old weak fences. WT., 2.25 8 lbs. Per Box of 50.

A14103. Convenient spring-steel clips that provide an easy quick method of fastening electric fence wire to insulators. PER 100..... **39c**

A10625. Portable Fence Tester. A convenient device to tell if fence is grounded or working. Meter equipped with one test prod and one ground-1.75 ing rod. NET..... **\$1.75**

A14105. Lightning Arrester for Fence Controller. When properly installed gives absolute protection. NET..... **15c**

A14106. Fence Sign. Meets Wisconsin State specifications for electric fence identification. Size 4"x8". NET..... **5c**

A14104. Gate Fastener. Equipped with spring insulated handle prevents shock. Hook on one end and spring on other. Spring holds wire tightly in place. NET..... **15c**

A8940. Knight Hot-Shot Battery. Efficient 6 volt dry battery, designed for Electric Fence Controllers. Metal case, 10½"x 2½"x6". Wt., 7 lbs. NET..... **\$1.21**

VALUES IN EASY-TO-OPERATE ARC-WELDERS



DELUXE COMMERCIAL ARC WELDER

A professional type welder designed according to best engineering practice. This arc welder is a combination machine which can be operated either from 110 volts or 220 volts, 60 cycle A.C. simply by re-arranging connections in a junction box attached to the unit. Extreme flexibility of control allows welding materials from a 20 gauge sheet to a thickness of ¼". Ideal for sheet-metal work, cylinder blocks, fenders, tanks, bumpers, farm machinery, etc. Makes all types of welds in any metal.

VERNIER HEAT CONTROL

Vernier control of welding heat is obtainable by the use of two sets of jacks—one giving large variations of current while the other provides intermediate values. Welder is fully housed in attractive metal case finished in red. Mounted on casters for portability. Louvers in case provide ventilation. Size: 26½" high, 18" wide, 14" deep. Will handle any size rod from ¼" to ¾". Furnished complete with electrode holder, ground cable, welding cable, service cord and plug, welder's helmet, and a generous supply of assorted welding rods. Shpg. wt., 125 lbs.

A10590. YOUR NET PRICE..... **\$86.24**
Terms: \$8.62 down, \$10.67 monthly for 8 mos.



SUPER INDUSTRIAL HEAVY-DUTY ARC WELDER

A De Luxe Industrial type Arc-Welder. Heavy-duty type for all welding work, such as on cylinder blocks, bumpers, fenders, tanks, wheels, tractors, plows, all other farm machinery, etc. Will weld all metals up to ½" thick. Has 33 heat ranges to apply to all types of welding requirements. Conveniently portable; weighs only 72 lbs. Economy of operation brings cost down to about five cents per hour. Will weld both heavy and light jobs. Has efficient cooling arrangement.

COMPACT AND EFFICIENT

Built very compactly; unit measures only 10½" x9"x14". Works with remarkable efficiency on all kinds of metal when brazing, soldering, or welding. Each unit is shipped complete with five pounds of assorted rod, ground cable and clamp, spring clamp electrode holder, head-shield helmet, 2 special fuses, carbon flux, solder, heat control plug, etc. Complete detailed instructions supplied are actually a course in welding. Shpg. wt., 90 lbs.

A10599. For 110 V., 50-60 cycle A.C. A10591. For 220 volt, 50-60 A.C.

EITHER MODEL, \$45.60 NET
Terms: \$4.56 down, \$5.64 monthly, for 8 mos.



DYNAMIC SUPER-CHARGED LOW-COST ARC WELDER

Here is the low-cost answer to those innumerable welding jobs you have been putting aside. This handy arc-welder will weld cylinder blocks, bumpers, fenders, tanks, and practically all metal farm implements. It is no longer necessary to discard perfectly usable machinery because some part has broken. Just plug the Dynamic Welder into a 110 volt 60 cycle A.C. socket, and in a few minutes' time the broken part is repaired. Works on iron, steel, tin, brass, etc. Uses carbon arc and metallic arc welding. Will easily weld metals up to ¼" thick. No previous experience is necessary to operate the welder successfully.

VARIABLE HEAT CONTROL

Convenient terminal outlets for Low, Medium, High, and Very High heat welding. Settings will depend on type of welding being done. Range of four settings is 30 to 75 amperes. Each unit is shipped with assortment of rods for all types of welding. Complete Dynamic Arc-Welder includes ground clamp, ground cable, spring type electrode holder, helmet, and detailed instructions. Size, 7½"x9"x11½". With convenient carrying handle and mounting feet. Shpg. wt., 35 lbs. A10598. Complete with helmet. NET..... **\$22.09**



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\$5.00 to \$25.00	10c
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1	8c	8c	9c	10c	11c	12c	14c	15c
2	10c	10c	11c	14c	17c	19c	23c	26c
3	11c	11c	13c	17c	22c	26c	32c	37c
4	12c	12c	15c	21c	27c	33c	41c	48c
5	13c	13c	17c	24c	33c	40c	50c	59c
6	14c	14c	19c	28c	38c	47c	59c	70c
7	15c	15c	21c	31c	43c	54c	68c	81c
8	16c	16c	23c	35c	49c	61c	77c	93c
9	17c	17c	25c	38c	54c	68c	86c	\$1.04
10	18c	18c	27c	42c	59c	75c	95c	1.14
11	19c	19c	29c	45c	64c	82c	\$1.04	1.25
12	21c	21c	31c	49c	70c	89c	1.13	1.36
13	22c	22c	33c	52c	75c	96c	1.22	1.47
14	23c	23c	35c	55c	80c	\$1.03	1.31	1.58
15	24c	24c	37c	59c	86c	1.10	1.40	1.69
16	25c	25c	39c	63c	91c	1.17	1.49	1.80
17	26c	26c	41c	66c	96c	1.24	1.58	1.91
18	27c	27c	43c	70c	\$1.02	1.31	1.67	2.02
19	28c	28c	45c	73c	1.07	1.38	1.76	2.13
20	29c	29c	47c	77c	1.12	1.45	1.85	2.24
For Each Additional Pound Add	1c	1c	2c	3½c	5c	7c	9c	11c

190 OUR PRICES ARE ALWAYS LOWER—WE WILL NOT BE UNDERSOLD

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Take advantage of our 2% Transportation Allowance on all orders for \$25.00 or more. Make ALLIED your one dependable source of Radio Supply. See Page 190 for full How-To-Order Information.

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EASY PAYMENT TERMS

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SMASHING VALUES IN BRAND-NEW STANDARD RADIO PARTS!

WONDERFUL BUYS — QUANTITIES ARE LIMITED

Here—and on the following pages—are special values in popular radio merchandise such as only ALLIED can offer. Don't confuse these wonderful values with ordinary "Bargain" stocks. We've scoured the market for manufacturers' surplus and overstock equipment, and guarantee that every item is brand new, unused, clean equipment—in many cases in the original factory packing. Here is your chance-in-a-lifetime to stock up on fast-moving items and to profit by tremendous savings! Since quantities are limited, we cannot guarantee shipment indefinitely. Buy now for your current and future needs—get high-quality brand-new radio merchandise—and SAVE!



QUALITY ELECTROLYTICS

Aluminum can or cardboard container dry electrolytic condensers. 450 V. D.C. wkg. 550 V. peak. Dual units have individual sections and leads. Excellent condenser values.

CARDBOARD		METAL CANS	
4 MFD. 1 1/4 x 7/8 x 2 1/4"	22c	8 MFD. 1 1/4 x 3/4"	30c
A3837	22c	A3842	30c
10 FOR	\$2.05	10 FOR	\$2.85
8 MFD. 1 1/2 x 7/8 x 4 1/8"	26c	8-8 MFD. A3844	53c
A3838	26c	10 FOR	\$4.90
10 FOR	\$2.35		
4-4 MFD. 1 3/8 x 1 1/8 x 3"	35c	8-8 MFD. 3 x 4 1/4"	88c
A3839	35c	A3845	88c
10 FOR	\$3.25	10 FOR	\$8.35
8-8 MFD. 1 1/2 x 1 1/2 x 2 1/4"	44c	5-15 MFD. 2 1/2 x 4"	72c
A3840	44c	A3846	72c
10 FOR	\$4.15	10 FOR	\$6.80



TRIAD L49C BALLAST TUBE

An astounding value in the most popular type of octal base ballast tube resistor for A.C.-D.C. receivers. For two 6.3 V. 250 M.A. pilot lights. Overall voltage drop across ballast—49 volts. For use with receivers having 3—6.3 V. tubes and 2—25 V. tubes.

A1099. Each, in lots of 10. 10c
YOUR PRICE EACH 12c



KIT OF 10 RADIO KNOBS

A bargain assortment of attractive 10 for knobs in molded bakelite and wood. Includes two small octagonal bakelite knobs for midget sets. All take 1/4" shaft. With set screw.

A4715. Kit of 10. 15c
A4716. Assortment of 25. Larger selection of types than listed above. Also includes white knobs for newest plastic-case midgets and attractive wood knobs marked TONE. BAND SWITCH, etc. NET. 31c

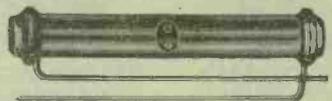


POPULAR BAKELITE KNOBS

"A"—1/4-inch bakelite knob. "B"—1-inch bakelite knob with wood insert. Both brown; take 1/4" shaft.

A4717. Fig. A. For midget Receivers. NET EACH. 4c
A4718. Fig. B. Fluted for positive grip. NET EACH. 4c
25 for 75c. 100 for \$2.50.

CARBON RESISTORS



An exceptional buy in quality R.M.A. Standard Color-Coded Carbon Resistors. Values held to close tolerance. Improved construction insures long life with constant value. 1/2" tinned copper leads. Permanent lead connection is insured by welding. Here is your opportunity to fill in your supply at low cost.

Ohms	Dhms	Ohms	Dhms
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.

A4720. 1/2 watt size. A4721. 1 watt size. EITHER TYPE, YOUR PRICE EACH. 3c
Quantity Price—100 FDR. \$2.25

SPECIFY VALUES WHEN ORDERING



RESISTOR ASSORTMENTS

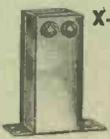
Valuable assortment of economy-type carbon resistors. Color-coded. Most popular resistance values in 1/4 and 1/2 watt sizes. Buy several assortments and have the resistors you need on hand at all times. Wt., 2 1/2 lbs.

A5120. 100 Resistors, NET. 98c
A5121. Assortment of 50 Resistors. Smaller assortment of same quality resistors as those listed above. Shpg. wt., 1 1/2 lbs. NET. 54c

POWER TRANSFORMER



A special value in a power transformer 69c
for 6 or 7 tube sets. Pri., 115 V. 50/60 cycles. Sec., 650 V. at 80 M.A. C.T. Two filament windings—6.3 V. at 3.3 A. and 5 V. at 2 A. An outstanding buy. Wt., 4 1/2 lbs. With diagram. A11699. NET. 69c



X-MITTING CONDENSER

A transmitting condenser bargain you can't afford to miss. These 59c
condensers are oil-impregnated in hermetically-sealed metal cases. Capacity, 3 mfd. Conservatively rated at 600 volts D.C. Exceptionally low leakage loss. Large lug type terminals protruding through insulated bushings in side of case. Drilled bottom flange, 2 1/4" by 1", allows mounting in upright position. Overall size: 4 1/2 x 2 x 1 1/2". Wt., 2 lbs. A11478. NET. 59c



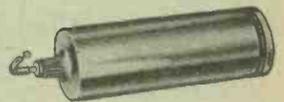
DRY ELECTROLYTICS

A record value in dry electrolytic filter condensers. Housed in cardboard container with mounting tabs and flexible wire leads. Ideal replacements. 15c

A3870. Single 8 Mfd. condenser with handy tabs for easy mounting. Cardboard container, 2 1/4" by 1 1/4" by 1/4". With long flexible leads. Working voltage—450 V. D.C. 10 for \$1.22. EACH. 15c

A3871. Dual 8-8 Mfd. 450 working voltage dry electrolytic. Same construction as above. Measures 2 1/4" by 1 1/4" by 1 1/4". Separate sections. 10 for \$2.90. EACH. 33c

A3872. AC-DC TYPE. Filter and by-pass block. Contains 1—16 and 1—12 mfd. section at 200 volts; 2—10 mfd. sections at 35 volts. 2 1/2 x 1 1/4 x 1 1/4". Coded leads. 10 for \$3.10. EACH. 34c



WET ELECTROLYTICS

Inverted Type. Special value wet electrolytic condensers. Self-healing. Working voltage—400 Volts. Round aluminum containers. Can negative. With mounting bracket. 12c

A11475. 8 Mfd. Size 1 1/4" x 4". 10 for \$1.08. NET EACH. 12c

A11476. 12 Mfd. Size 1 1/4" x 4". 10 for \$1.17. NET EACH. 13c

A11477. 25 Mfd. Size 1 1/4" x 5". 10 for \$1.26. NET EACH. 14c

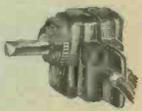


MIDGET 2 1/2 M.H. R.F. CHOKE

Universal type winding, sectioned to reduce distributed capacity. D.C. resistance, 60 ohms; will carry 125 M.A. Has ceramic core. A2163. 10 for \$1.15. NET EACH. 13c

G.E. ROTARY SWITCH

A very valuable item at a surprisingly low price. Comes equipped with 8' insulated leads. 1/2" long flatted shaft for push-on or set-screw type knob. Underwriters' approved. Rated at 3 amps., 125 V. A.C. A2915. 10 Lots 75c. EACH. 8c



MIDGET UNIVERSAL O.P. TRANSFORMER

An extremely compact output transformer for matching impedance of all existing tubes. For single or push-pull output stages. Tapped secondary matches all voice coils from 2 to 30 ohms impedance. Size: 1 1/4" high, 2 3/4" long, 1 1/2" thick. With instructions. A11662. EACH. 49c



BARGAINS POPULAR HIGH-QUALITY PARTS - BUY NOW! QUANTITIES LIMITED!



BARGAIN SOCKETS

4c Fine quality tube sockets at amazingly low prices. Have individual interchangeable lugs and standard 1/4" mounting centers. RMA numbered pin holes. A real bargain for Servicemen or for the Radio Builder.

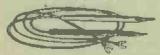
No.	Prongs	EACH	10 FOR
A4450	4	4c	30c
A4451	5		
A4452	6		
A4453	7S		
A4454	8 Octal		



WAFER SOCKET KIT

25c A special offer. Kit contains 20 assorted wafer sockets, including 4, 5, 6, 7M, 7S, and 8 prong. All have standard 1/4" mounting centers. Laminated bakelite construction; full-floating, self-aligning contacts.

A4034. YOUR NET PRICE..... **25c**



SERVICE TEST LEADS

22c Special value popular test prods having wide variety of service uses. Kinkless wire leads with solderless phone tips fitted into 3/8" dia. handles, 2 1/2" long. Leads are 36" long. Prod wire securely tightened by knurled nut.

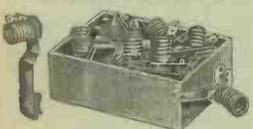
A5493. Phone Tips. } **22c**
A5494. Spade Tips. }



10 CANDOHM UNITS

25c Ten popular sizes—all standard equipment in many present-day receivers. Shielded, wire-wound resistors with mounting flanges on each unit. Here is an outstanding value at an exceptionally low price.

A4725. NET..... **25c**



PILOT LIGHT KITS

25c A popular assortment of miniature base and bayonet shell pilot light socket for all radio requirements, offered at a special low price. Finest quality construction. Have heavy-plated lugs for easy soldering. Spring contact in socket holds lamp firmly in place. Keep several assortments on hand to speed up service work.

A4726. Ass't. of 10. **25c**
YOUR PRICE.....

A4727. Ass't. of 25. **55c**
YOUR PRICE.....

BELDEN WIRE CLOSEOUTS!

Here's a real bargain scoop! Nationally-famous finest quality Belden lead-in and hookup wire at sensational low prices. Belden wire is known everywhere as absolutely the finest you can buy. This special offer gives you the opportunity to buy the best at big savings. Quantities are limited—buy now while you have the opportunity.



RUBBER COVERED LEAD-IN WIRE

Finest quality general purpose lead-in wire. Stranded conductor covered with special rubber insulation for easy stripping.

No.	Gauge	No.
A4735	14	A4738
A4736	16	A4739
A4737	18	A4740
NET EACH 22c	NET EACH 49c	



BRAIDED HOOKUP & ALL-PURPOSE WIRE

Finest No. 20 stranded tinned wire covered with cotton wrap, 1/4" rubber covering, and glazed cotton braid overall. For all hookup or general purpose use.

100 Feet	1000 Feet
A4742. NET EACH 24c	A4743. NET EACH 1.95
10 FOR \$2.15	



2 CONDUCTOR RUBBER-COVERED

For double-button carbon mike circuits, low impedance transmission lines, or coupling a pre-amplifier to power amplifier. 2 conductor No. 20 wire, rubber-covered. Exceptional value!

A4744. 100 Foot Coils. NET EACH..... **1.70**

A4745. 250 Foot Coils. NET EACH..... **3.35**



MALLORY-YAXLEY ENCYCLOPEDIA

The famous complete First Edition of the Mallory-Yaxley Encyclopedia. Offered at a special bargain price. Has over 200 pages of valuable service data on older sets not found in many present service books. Cloth-bound hard cover, 8 1/2 x 11" book. Formerly priced at \$1.47. Everyone in radio should have one of these books. Limited quantity available—buy now!

A11870. YOUR PRICE..... **39c**



RUBBER-COVERED HOOKUP WIRE

Here's an amazing special value! Popular No. 20 tinned solid rubber-covered hookup wire in 25 foot coils at an unparalleled low price. Suitable for all general purpose hookup requirements. A good quality wire at a real saving. Servicemen, Builders, Experimenters—buy it in quantities. Take advantage of this opportunity to stock up on this high-quality hook-up wire. You'll never again be able to buy it at so low a price!

A3400. 25 Foot Coil. NET EACH **8c**
10 FOR ONLY **75c**



HIGH-POWER TRANSFORMER VALUE!

Every Amateur or Experimenter will find dozens of uses for this high-quality combination plate and filament transformer offered at a special low price. Primary, 110 V. 50-60 cycles. Secondaries: 1200 V. at 200 M.A.-C.T.; 7.5 V. at 3 A.-C.T.; 5 V. at 3 A.-C.T.; 2.5 V. at 10 A.-C.T. Fully enclosed case type in upright mounting style. Supplied complete with flexible leads. Shpg. wt., 12 lbs. A fine value in a well-built transformer at an exceptional price.

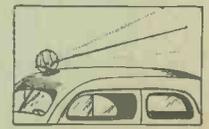
A11141. NET..... **\$2.69**



SPECIAL 4 MFD. 1000 V. PAPER CONDENSER

Here's a real buy for the Amateur. This 4 mfd, 1000 V. paper condenser is a popular size for use in transmitting power supplies. Working voltage, 1000 V. D.C.; 2000 V. test. In metal case; size: 4 1/2 x 4 1/2 x 2 1/4". With porcelain standoff type terminals. Shpg. wt., 5 lbs. Buy now at this special low price.

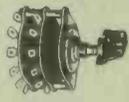
A7899. NET..... **1.69**



"TIP-TOPPER" AUTO AERIAL BARGAIN

A special value in a versatile auto aerial that fits any car and offers exceptionally fine results. Mounts on car roof by means of attractive streamlined insulator. Adjustable in three positions from horizontal to vertical; telescopes from 26" to 40". Completely rust-proof; triple chromium-plated over brass. Easily installed on any make or model car. Supplied complete with lead-in. Quality-built of finest components. Non-rattling. Shpg. wt., 2 lbs. A splendid aerial value.

A10405. YOUR NET PRICE..... **\$1.25**



GANG SWITCH KIT

A special value assortment of five good quality gang switches with many uses. May be used to replace tone control switches, instrument switches, Amateur transmitter switches, lab equipment switches, etc. All have standard 1/4" shaft in varying lengths. A handy kit for the Serviceman, Amateur, or Experimenter at a special bargain price. Quantities are limited. Buy now! Less knobs.

A4728. Kit of 5 Assorted Switches. YOUR SPECIAL PRICE PER KIT..... **35c**



PUSH-BUTTON KNOBS

Here's a special value assortment of push-button knobs for sets with automatic tuning. All are of bakelite in black, brown, and white. All are standard 3/8" in height and are push-on self-locating type. Assortment also includes knobs with recessed tops for station call letter tab. Keep several assortments handy to replace missing buttons on sets coming into your shop.

A4729. Kit of 25. NET EACH KIT..... **20c**

A4730. Kit of 100. NET EACH KIT..... **65c**

SIDE COWL TYPE

Here's a bargain value in a good-looking, efficient Ward aerial which will improve the performance of any auto set. Triple chromium-plated—fully rust-proof. Mounts on side of cowl, 2 section telescoping type—56" total lgth. All fittings are of stainless steel. Equipped with bakelite insulators. Easily installed on any make or model car. Provides noise-free operation. Shpg. wt., 2 lbs.

A10376. NET..... **45c**

BARGAINS

POPULAR HIGH-QUALITY PARTS - BUY NOW! QUANTITIES LIMITED!



2 BAND COIL AND CONDENSER KIT

75¢ An excellent quality coil and condenser kit for 2 band set use at a smashing low price. Condenser is 2 gang TRF 410 mmfd. type with standard 1/4" shaft. Has trimmers and mounting lugs. Set of 2 low-loss high-gain type coils cover standard broadcast band and 49 meter short wave band. This kit is ideal for replacement use in AC-DC sets or for set-builders' requirements. With diagram. Shpg. wt., 3 1/2 lbs.

A4710. Complete Kit. 75¢ NET

2 GANG CONDENSER

A special offering of the 2 gang condenser only described above. Full 410 mmfd. capacity, clockwise rotation. Standard 1/4" shaft extends 1 1/2". Has trimmers and mounting lugs. Size: 2 1/2" x 3 1/4"; 1 1/2" deep. Shpg. wt., 2 lbs. A condenser of high standard quality.

A4711. 29¢ NET

2 BAND COIL KIT

A quality-built set of low-loss high-gain type coils covering bands mentioned above. Manufacturers' type with solder lug connections. Ideal for use with condenser above or any similar type unit. 2 1/4" high, 1 lb.

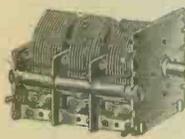
A4712. 59¢ NET



BARGAIN 2 BAND SUPERHET COILS

49¢ A sensational value in a set of 2 dual-band Superhet coils. Low-loss windings; high-gain type. Cover the standard broadcast and police call bands. Manufacturers' type coils with solder lug connections. Size: 3" high. Ideal for set-builders' or experimenters' requirements. Supplied with wiring diagrams for suggested circuits employing these coils. Quality coils at a money-saving price. Shipping weight, 1 lb.

A4713. 49¢ NET

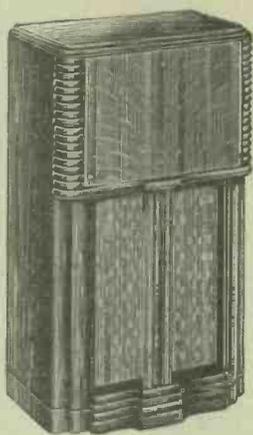


3 GANG CONDENSER

33¢ A high-quality, ruggedly-built 3 gang condenser with trimmers. Rated at 420 mmfd., full capacity. Rotation counter-clockwise. Has standard 1/4" shaft extending 3/8". End shields measure 1 1/4" x 3 1/4". Ideal for use as tuning condenser in popular radio magazine set-builders' kits. An excellent quality condenser at a sensational bargain price. Shpg. wt., 3 lbs.

A4714. 33¢ NET

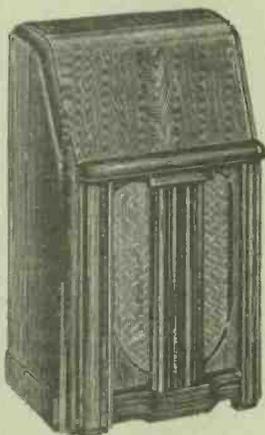
ULTRA-MODERN CONSOLE VALUES!



POPULAR 2-TONE CONSOLE

A beautifully built, beautifully finished \$4.95 console cabinet of pleasing modern design. Handsome matched butt-walnut veneer is used for the instrument panel face. Curved beaded pilasters enhance the appearance of the cabinet and increase its sturdiness as well. Recessed grille is covered by attractive dull gold cloth and is fronted by three matched walnut bar posts. Overall dimensions are: 37" high, 20" wide, 10" deep. Inside dimensions: 35" high, 18" wide, 9 1/2" deep. Instrument panel area: 15 1/2" wide; 11 1/4" high. Shpg. wt., 34 lbs. A wonderful value at this low price. A fine console for replacement purposes or for housing home-built sets.

A10920. \$4.95 NET



"TILT-TUNER" CONSOLE

A handsome walnut-finished console cabinet in the popular "tilt-tuner" style. Striped walnut instrument panel face is enhanced by beautifully V-matched inlay. Has rich, burnished gold grille cloth fronted by four matched walnut posts. Beautiful roll-top design with one-piece instrument panel and top. Overall dimensions: 39" high, 22 1/2" wide, 12" deep at bottom, 8" deep at top. Inside dimensions: 37" high, 20 1/2" wide, 11" deep at bottom, 7" deep at top. Instrument panel area: 20 1/2" wide, 12" high. This graceful, quality-built cabinet is ideal for replacement purposes or for housing custom-built sets. Shpg. wt., 33 lbs.

A10921. \$8.75 NET

QUANTITIES ARE LIMITED — ORDER NOW!



AC-DC CABINET

A wonderful bargain in an attractive compact table-model cabinet \$5.95 ideal for replacement purposes or for set-builders' use. Handsome walnut finished wood with darker-stained speaker grille inset. Overall dimensions: 11" wide, 7 3/4" high, 5 1/4" deep. Has two 1/2" holes for controls drilled at sides of grille; holes filled with plug buttons which may be removed if desired. The neat lines and trim appearance of this compact cabinet will add to the professional appearance of "build-your-own" sets or will make a fine replacement for older cabinets. Shpg. wt., 3 lbs.

A10922. 59¢ NET



SPECIAL CHASSIS BASE ASSORTMENT

Here's a bargain scoop 4 for for the radio hobbyist or experimenter! A special value assortment of four chassis bases at less than the usual price of one! Substantially constructed of good quality radio metal with holes punched for tubes, coils, transformers, tuning and volume controls, etc. May be used for building all kinds of sets from small 3 or 4 tube jobs to big 7 or 8 tube receivers. Holes already drilled and openings punched will save you hours of labor in your radio-building work. These bases are suitable for AC-DC or AC sets and are stamped from standard chassis base stock. Shpg. wt., 6 lbs.

A15000. 39¢ NET. Ass't. of 4



TRICOR DRIVE TUNING DIAL

A very attractive and efficient precision direct-drive dial at a remarkably low price. Ideal for compact receivers, transmitters, etc. Dial is 2 1/2" in diameter and fits standard 1/4" shaft. Calibrated in large, easily legible figures 0-100-0 for clockwise or counter-clockwise rotation over 180°. Finished in black bakelite. A real buy for the Amateur, experimenter, or set-builder.

A5551. 19¢ NET



PLUG-IN COIL KITS

Special values in high-grade general coverage coil kits. Supplied on 4 or 5 prong forms to suit requirements of most circuits. Bands covered: 16 to 36, 32 to 64, 57 to 115, 107 to 217 meters, when used with 140 mmfd. condenser.

5 PRONGS — 2 WINDINGS
Kit of four coils to cover bands described above. Have standard 5 prong bases. Each coil form measures 3" high and 1 1/2" in diameter.
A5663. NET 49¢

4 PRONGS — 2 WINDINGS
Kit of four coils covering the same bands as above. Standard 4 prong bases. Size: 3" high x 1 1/2" dia.
A5660. NET 75¢

RIBBED 5 PRONG COIL FORM

Genuine molded bakelite ribbed coil form for winding low-loss coils. Has molded rim handle for easy grip. Size: 3" high x 1 1/2" dia. With standard 5 prong base.

A5664. NET 5¢

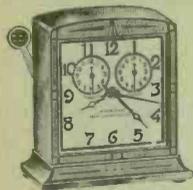


RADIO BEGINNER BOOKS

These books are ideal for the radio beginner. Written so that you can easily understand them, they answer your questions about radio and will show you how to build and operate Short Wave equipment.

A4601. Alternating Current for Beginners. 10¢
A4602. All About Aerials. 10¢
A4603. How to Build 4 Doerle Short Wave Sets. 10¢
A4604. How to Make Popular All-Wave 1 or 2 Tube Sets. 10¢
A4605. Beginners' Radio Dictionary. 10¢
A4606. How to Have Fun with Radio. 10¢
A4607. How to Read Diagrams. 10¢
A4608. Radio for Beginners. 10¢
A1753. Beginners' Handbook. NET EACH 10¢
4 FOR 35¢, 8 FOR 65¢

Special FEATURE VALUES!



ELECTRIC TIME SWITCH CLOCK

\$5.44 An accurate electric clock and automatic control for electrical appliances. Will switch radios, store lights, heaters, etc., "on" or "off" at predetermined time. Can be set for any period "on" or "off" from 10 minutes to 5 hours. No special wiring is required. Easily adjusted by means of small dials on face. Self-starting dependable motor. Underwriters' approved. In brown bakelite case. Attractive, effective. For 110 volts, 60 cycle AC. Wt. 3 1/2 lbs.

A7644. NET \$5.44
LOTS OF 3, EACH...\$5.07



RADIO SOUND EFFECTS LIBRARY

\$2.10 An instructive kit containing sound apparatus to emulate distant thunder, the patter of rain, screaming sirens, train whistles, station chimes and many other combinations of radio sound effects. A good foundation for learning the highly specialized art of "sound effects man." Also includes a miniature set of chimes tuned to the pitch of those used on a national radio network. Educational and amusing. Also suitable for making "sound-effects" records, for school plays, etc. Comes complete with instruction booklet. Shpg. wt. 3 1/2 lbs.

A7075. NET \$2.10

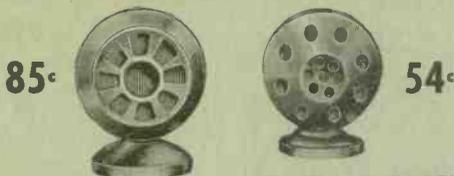


CODE PRACTICE SET

\$2.03 This Signal-twin wireless code practice set is practically and scientifically designed; invaluable for learning wireless code. Enables the operator, through practice, to develop professional speed and accuracy. Consists of two complete "stations," each equipped with key, buzzer and easy-to-read code plate mounted on a sturdy, attractive base. 75 feet of wire supplied. May be operated up to 1000 ft. apart by adding more wire. Uses standard dry cell. With instructions. Shipping weight, 2 1/2 lbs. Less dry cell.

A7700. NET EACH \$2.03
LOTS OF 3, EACH...\$1.91

POPULAR LOW-COST MICROPHONES



85¢

DE LUXE MODEL

An efficient microphone for home radio use. Make your own broadcast and announcements. Does not interfere with radio reception. Equipped with push-button switch for instant break-in on programs. Finished in attractive green-bronze finish. Size: 5" high. Mounted on substantial no-tip pedestal. Complete with cord. Wt., 1 lb.

A7085. NET \$85¢

54¢

STANDARD MODEL

Similar in appearance to the De Luxe model listed at left but slightly smaller in size. In bronze metal case 3 1/4" high. Will provide loads of fun and entertainment at parties, etc. Supplied complete with adapters and cord. Same general construction as described for A7087 below, but mounted on pedestal. Felt base. Wt., 1 lb.

A7086. NET \$54¢



98¢

HAND MICROPHONE

Similar to the Standard Model above but fitted with wooden handle. A low-priced but well-made novelty microphone. Will provide endless hours of real enjoyment when hooked to your receiver. Break in on regular radio programs with your own announcements and surprise your friends. Complete with cord. Wt., 2 lbs.

A7087. NET \$98¢



\$1.18

STUDIO TYPE MIKE

An extremely popular type hand carbon microphone for use with any radio set or amplifier. Looks like a professional crystal type microphone. Includes on-off switch mounted on handle. Furnished with 10-foot cord and connector prong adapter for easy installation. Complete instructions are furnished. Handle fits comfortably in hand. Wt., 2 lbs.

A7100. NET \$1.18



\$1.76

QUAM MIKE

Fig. E. A high impedance type pedestal mounted quality microphone. Ideal for "mystery" wireless phono players equipped with microphone jack. Covers frequency range of 60 to 8000 cycles with +50 D.B. output. With 5 feet of wire. Crackle-finished metal case, 5 1/2" high. Wt., 2 lbs.

A9172. NET \$1.76



59¢

MIKE "BOOSTER"

A well-constructed and efficient unit which permits the connection of a single button carbon microphone to any radio receiver. Increases the sensitivity and volume of any carbon microphone, and limits the button current to a safe value. Eliminates carbon "packing." Has brackets for permanent fastening to side of radio receiver. Complete with instructions. Wt., 1 lb.

A5731. NET \$59¢



59¢

EA. LOTS OF 6

THE "AIRMETER"

A necessity in every home. Tells at a glance the relative humidity and temperature in any room. Unusually accurate. Attractively presented in a chrome case with black dial face and contrasting aluminum figures and pointers. Size: 3 1/4"x3"

A7060. NET EACH \$67¢
LOTS OF 6, EACH...\$59¢

WIRELESS REMOTE CONTROL

New low-priced wireless remote control unit that will double your radio enjoyment. Requiring no connection to radio set, the Remote Control can be used with Quam mike above or with record player to reproduce voice or records through any radio set. Control plugs into any A.C. or D.C. electric outlet. Brown crackle cabinet. Wt., 4 lbs.

A7230. NET \$4.75



POWER LINE FILTER

End bothersome radio interference! Use this Tobe capacity type filter for effectively eliminating line noises. No ground connection required; plugs into any standard receptacle. Has socket for receiver plug. Simple to install. Ideal for elimination of noises from home appliances such as electric razors, vacuum cleaners, hair dryers, etc. For operation from any 110 volt line. AC or DC.

A8406. List, \$1.00. NET \$59¢
PER LOTS OF 6...\$3.35



AERIAL FILTER

A highly successful aerial filter; absorbs and eliminates signals of interfering stations. Adjustable control for utmost selectivity; permits setting which produces best results with your particular antenna and radio. May be installed in radio cabinet. Shpg. wt., 1 lb.

A2602. List, \$1.50. NET \$74¢



LOW-COST SLIDE RULES

A4195. DeLuxe Model Mannheim type rule with A, B, C, D, CI, and K scales. A well-constructed, precise instrument designed for unusual accuracy. Has sine, log, and tangent scales. Made of mahogany. Equipped with removable magnifier. In leatherette case.

NET PRICE \$79¢

A4194. An accurate, well-made rule for quickly solving problems in multiplication, division, combination of both, percentage and proportions, square, square root, etc. Made of mahogany. Packed in carrying case. With instructions.

NET PRICE \$45¢

A4193. Beginner's Model. An unusually low-priced slide-rule for the school or college student, etc. Provides accurate calculations. With case and instructions.

NET \$25¢



MULTI-RULE & GAUGE

4-inch quick-reading 32nds and 64ths scale, drill point gauge, square, bevel protractor, center finder, and circle divider, all built into one handy versatile stainless steel pocket tool. Ideal for use in laying out templates, for panel, chassis, etc.

A7740. NET \$95¢



USALITE PENLITE

A handy new chrome-plated 5 1/4" long vest-pocket flashlight. Will throw a concentrated beam of light. Complete with bulb and battery.

A8916. NET PRICE \$35¢
3 PENLITES FOR \$98¢
A8915. Extra 2 cell battery...7¢

Special FEATURE VALUES!



BRUSH "HUSHATONE"

An entirely new and efficient pillow-type speaker. Exclusive Brush principle provides perfect reproduction of entire audible range. Permits the user a more comfortable method of enjoying radio programs and allows complete relaxation at the same time. It may be placed under pillow on bed, couch, or chair. Permits perfect radio entertainment without disturbing or interfering with others in the room. The volume is regulated by the volume control on the set. Measures only 3/4"x2 1/4"x2 1/4". Supplied with ample length rubber-covered cord. Easily and quickly attached to any receiver. The Brush "Hushatone" pillow speaker is not only useful in the home but is an invaluable aid and comfort in hospitals and sanitariums where individual wall plugs are available. Shipping weight, 1 lb.

A1203. NET \$2.94
A1214. Institutional Model. Housed in sponge rubber; may safely be dipped into liquid for sterilization. **\$4.41**

AMERICAN-BELL SILENT RADIO HEADPHONE ATTACHMENT



A new radio headphone attachment combining convenience with versatility. Easily and quickly installed on any radio set, this unit permits you to silence your radio set loud-speaker and listen to any program by headphones without disturbing others in the same room. Or, you can operate both the speaker and the headphones simultaneously, thus giving the hard-of-hearing full radio enjoyment. Special low-impedance headphones assure finest tone quality. Supplied complete with headphones, lightweight headband, 6-foot cord, and adapter unit with switch. Shpg. wt., 5 lbs. An exceptional value. **\$1.95**

A2912. Complete with headphones. NET \$1.95
A2913. Adapter Attachment Only. For use with any good 'phones, but offers best results with low-impedance (11 ohm) 'phones as supplied above. **NET \$1.85**

CANNONBALL LOW-COST MASTER HEADSETS

An improved high resistance type headset of excellent quality. A placed heavy bar magnet assures maximum sensitivity. Terminals are placed inside of case, assuring greater safety. The flexible headband is easily adjusted by means of handy spring pressure clips. Has 4 1/2 foot mercerized cotton-covered cord. These efficient phones are fine for use in hospitals and institutions. Supplied with lightweight stainless-steel headband. Shpg. wt., 2 lbs. **\$1.85**

A2804. 3000 OHMS. NET \$1.85
A2805. 5000 OHMS. NET \$2.35

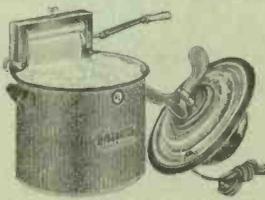
NOTE: Hospitals, Schools, and Institutions for the Hard-of-Hearing, Sanitariums, Prisons, etc., are invited to write for attractive quoting prices on Cannonball Headsets. Outline your requirements, and prices will be sent promptly without obligation.



"HOT DONUT" WATER HEATER

Now you can have all the hot water you need in a jiffy whenever you need it. Just connect the Hot Donut Water Heater to any 110 volt outlet, either AC or DC, and immerse in a pan of water and you will have boiling water almost immediately. This dependable little heater is inexpensive and portable; it is extremely valuable to tourists and travelers. It takes up very little space, is light in weight, and yet will keep you supplied with hot water for all requirements. Ruggedly built. Heating unit is thoroughly impregnated against moisture. Metal housing is finished in bright aluminum; will not rust; easy to keep clean. Has heavy rubber cord 6 feet long, with plug. Priced exceptionally low; buy them in quantities for extra savings.

A9161. YOUR PRICE, EACH \$1.71
10 FOR \$6.65



STERRO ELECTRIC CLOTHES WASHER

A new Underwriters' Approved Electric Clothes Washer, ideal for the home or nursery. Bolls and sterilizes as it washes everything from baby's clothes to wearing apparel and linen. Holds 2 full pounds of dry clothes; washes thoroughly with swirling action. Has powerful air-cooled induction-type motor and 3 fin cast-aluminum agitator. Heavy, triple-coated vitreous porcelain enameled steel tub and cover attractively finished in speckled Ivory. Cover has convenient handles and steam escape vents. Diameter, 16". For 110 V. 50-60 cycles A.C. Shpg. wt., 18 lbs. Less wringer which is listed below. An exceptional value in an efficient utility-type clothes washer. **\$9.75**

A10440. NET \$9.75
A10441. Portable Wringer. Lightweight and compact; easily affixed to washer tub. Has soft rubber rollers. **NET \$3.85**



ELECTRIC MIXER AND JUICER

The latest high-quality electric food mixer and juice extractor. A beautifully designed powerful all-purpose kitchen servant which will mix, whip, stir or beat all types of batters, pastry dough, salad dressings, eggs, cream, etc.; will also extract juice from fruits with special attachment supplied. Equipped with set of 2 self-locking beaters with stainless steel blades, easily removable for cleaning. Base tray is revolving ball-bearing type. Powerful three-speed universal type motor operates on 110 volts AC or DC; light and portable for easy removal from base. Motor housing automatically locks self to frames; motor tilts back to drain beaters or for easy removal of mixing bowl. The entire mixer is ivory-finished, attractive in appearance and easy to clean. Equipped with rubber-covered cord and rubber plug. Complete with 1-7" and 1-9" bowl and juice attachment. Shpg. wt., 9 lbs. **\$8.50**

A10445. NET \$8.50



HEATING PADS

High-grade Underwriters' Approved heating pad. Has automatic, non-radio interfering double thermostat control and three heating ranges selected by 4-position switch. 15"x12"; soft camel's hair finish cover. With 8 ft. cord. For 110 volts AC or DC, 55 watts. **A10442. NET \$1.45**

DE LUXE MODEL. Has 4 thermostats which maintain exact temperature selected. Offers 3 heats: Low—125°, Med.—150°, High—175°. Has snap-on soft finish cover and water repellent interlining. 110 v. AC or DC, 55 watts. **A10443. NET \$2.15**

SUPER DE LUXE MODEL. Similar to A10443, but has removable, washable type, quilted grain fleecette cover, and ivory cord, switch, and plug. **A10435. NET \$2.95**



COFFEE-MAKERS

Unusually efficient and attractive coffee makers with improved filtering method which produces coffee of superior flavor. Made of "Glasbake" full heat-resisting glass. Can be used on gas stove, electric stove or over open flame. Uses vacuum principle to extract full flavor from coffee; brews clear, delicious coffee; improves the taste of your favorite brand. With brass molded handle. (Illustrated with electric stove.)

A10295. 6 Cup Model. (Less Stove). NET \$1.25
A10296. 8 Cup Model. (Less Stove). NET \$1.40
A10297. 12 Cup Model. (Less Stove). NET \$2.10
A10298. Electric Stove Only. \$1.01



CARRON CRYSTAL SETS

MIDGET

\$1.31

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. Requires no tubes or batteries. Has spring action locator and station selector knob. Complete with special earphone and roll of ground wire. Size: 4 1/2 x 3 1/2 x 2 1/4". Shpg. wt., 3 lbs. A splendid crystal set value that will give enjoyable and surprisingly dependable reception within a limited tuning range.

A9311. With Accessories. NET \$1.31

A9310. Set Only. YOUR NET PRICE \$1.88

JUNIOR

\$1.98

A larger size Carron crystal set with same working characteristics and average range of set at left. Attractive solid walnut cabinet is handsomely designed and resembles small electric receivers. With spring action locator and easy-to-adjust crystal. Delivers programs in a clear, enjoyable manner. Supplied with earphone on metal head band and coil of ground wire. Size: 5 1/2 x 4 1/2 x 3 3/4". Shpg. wt., 5 lbs. Remarkably efficient; a real "buy" at our unusually low price.

A9313. With Accessories. NET \$1.98

A9312. Set Only. YOUR NET PRICE \$1.47



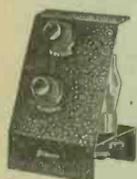
Low Cost Kits HEADPHONES Accessories

PHILMORE KITS

1 TUBE

BATTERY KIT

\$1.18



An efficient and sensitive 1 tube Philmore battery set in kit form. Employs plug-in type coils. Tunes

from 13 to 530 meters covering Amateur, Police Calls, Short-wave, Broadcast band, etc. Has amazing volume and clearness. Especially suited for use in camp, on farm, or anywhere that electric current is not available. With coil for broadcast band (200 to 530 meters). Easy to assemble from clear instructions. Also available completely assembled and wired. Shpg. wt., 3 lbs.

A7237. Less Tube and Batteries. NET PRICE

PARTS KIT ONLY \$1.18

A7238. As above, but wired. NET \$1.65

A7239. Batteries, 1-1/2 V., 15 V. \$1.15

A7245. Kit of 4 coils (13 to 240 meters). .72

Knight Type 30 Tube. .32

2 TUBE BATTERY KIT

Mounts on attractive panel. Uses 2 type 30 tubes. These Philmore sets when assembled are powerful enough to operate several sets of headphones at the same time. With plug-in Broadcast band coil. Quickly assembled. With instructions. Wt., 4 lbs.

A7240. Less Tubes and Batteries. NET PRICE

PARTS KIT ONLY \$1.49

A7241. As above, but completely wired. NET \$1.89

A7242. Batteries, 1-1/2 V., 2-45 V. \$2.09

A7245. Kit of 4 coils (13-240 meters). .72

Knight Type 30 Tubes. .32

(2 required). EACH .32

2 TUBE A.C.-D.C. KIT

A reliable Philmore 2 tube electric receiver kit. Will operate from 110 volts, A.C. or D.C. Reception is strong and clear. Uses 2 type 76 tubes. Coil supplied is of the plug-in type covering Broadcast band. Coil kit permits tuning Short-wave, Amateur bands, Police calls, etc. Also in assembled form. Wt., 5 lbs.

A7243. Less tubes. NET PRICE

KIT OF PARTS ONLY \$2.25

A7244. As above but completely wired. NET \$2.65

A7246. Kit of 4 coils (13-240 meters). .72

Knight Type 76 Tubes. .26

(2 required). EACH .26

FROST PHONES

\$1.48



Many superior features are incorporated in Frost phones which add greatly to their efficiency and quality of reproduction. They are light in weight and comfortable to wear; easily adjusted to fit the head. Head band is double type, with woven fabric covers. Units have aluminum shells and hard rubber caps. Cord terminals are inside of case, to prevent accidental shock. With cords. Shipping weight, 2 lbs.

A3251. 3000 Ohms. \$1.65

YOUR PRICE \$1.48

A3250. 2000 Ohms. \$1.48

YOUR PRICE \$1.48

ACME FEATHERWEIGHT HEADPHONES



Sensitive, durable, and truly practical 'phones for every headset use. "Light as a feather." Each unit weighs less than 1 1/2 ounces; total weight is only 5 ounces. Recommended especially for Amateurs, SWL's, hard-of-hearing, and multiple phone installations. Case is of non-breakable aluminum with light tension flexible headband. Cord is 4 1/2 ft. braid-covered. A real value leader. Wt., 1 lb.

95c

A5250. 4000 Ohms. (2000 per phone.)

YOUR PRICE \$1.20

A5251. 2000 Ohms. (1000 per phone.)

YOUR PRICE 95c

ACME SINGLE HEADSETS

A lightweight single unit 'phone with headband exactly as described above. With cord. Wt., 3/4 lb.

A5278. 2000 Ohms. NET 70c

DIAPHRAGMS for Headphones Above. Replacement diaphragms for all Acme 'phones. A5252. EACH 5c

A5279. 1000 Ohms. NET 59c

DIAPHRAGMS for all Acme 'phones. A5252. EACH 5c

TRIMM QUALITY HEADPHONES



FEATHERWEIGHTS

Very compact phones. Weigh only 4 ounces. Bakelite shells and

Cobalt steel. Adjustable spring steel headband. Diameter only 2 3/4". Custom-built for Amateurs, Aircraft, Hard-of-Hearing, etc. Ideal for general purpose work. Special (24,000 ohms impedance) phones are ideal for use in short wave work and have a 36% Cobalt steel magnet. These phones have met the exacting requirements of discriminating Amateurs and SWL's for many years. Shpg. wt., 2 lbs.

A5270. 4000 Ohms Standard Featherweights. \$5.88

A5271. 24,000 Ohms Special Featherweights. List \$10.00. EACH PAIR \$5.88

A5275. NET \$3.97

A5273. HEADBAND STYLE. With adjustable steel headband. Ideal for hearing-aid installations in churches, theaters, schools, lodges, etc. NET \$3.67

A5275. NET \$3.97

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A5275. NET \$3.97

BRUSH 'PHONES

CRYSTAL TYPE A

\$5.29



High sensitivity headphones of new piezo-electric design. For Amateurs, Short Wave fans, monitoring, measurement work, etc. Have unusually high impedance and wide frequency response between 60 and 10,000 cycles. These phones are ideal for all applications. When used in circuits carrying direct current, a small blocking condenser is required. Weight including band and cord, only six ounces. One of the finest headsets on the market. Shpg. wt., 2 lbs.

A1200. NET \$5.29

NEW TYPE BJ

Finest quality high impedance communications type crystal 'phones. Hermetically sealed cartridge in aluminum case with soft molded rubber jacket. With adjustable headband and 5 foot all-rubber cord. Shpg. wt., 2 lbs.

A1215. NET \$7.06

SINGLE UNIT TYPE A

A1201. Single phone with metal headband. \$2.94

List \$5.00. NET \$2.94

A1202. Single phone with lorgnette handle. \$3.82

List \$6.50. NET \$3.82



BRANDES SUPERIOR

A high quality, ruggedly-built headset which has been a favorite for years.

Outside terminal type, with aluminum cases and bakelite caps. Diaphragm diameter is 2 1/2". Has double coils, two in each receiver; adjustable stainless steel 1 piece headband; and 4 1/2 foot cotton-covered cord. Magnets are made of chrome magnet steel, 1/4" square. Resistance is 2400 ohms per pair. Wt., 2 lbs.

A2908. \$1.79

YOUR PRICE \$1.79

PROFESSIONAL TYPE

A high quality standard type headphone, suitable for battery, crystal and shortwave sets, as well as for multiple installations. Used by Amateurs, SWL's, etc. Has bakelite case and cap. Perfectly matched units assure long life. With cords. Cord terminals are inside case. A headphone of extraordinary quality at a low price. Wt., 2 lbs.

A5276. 3000 Ohms. \$2.47

A5277. 4000 Ohms. NET \$2.47

EACH \$2.47

A5276. 3000 Ohms. \$2.47

A5277. 4000 Ohms. NET \$2.47

EACH \$2.47

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EACH \$2.47

A5276. 3000 Ohms. \$2.47

A5277. 4000 Ohms. NET \$2.47

EACH \$2.47

SINGLE UNIT TYPE LORNETTE HANDLE

Single unit Trimm featherweight phone with adjustable 14-inch telescoping metal handle. Bakelite case unit is adjustable to any angle. Terminals are inside of case. Efficient and adaptable for group hearing-aid church systems. Wt., 3 lbs.

A5275. NET \$3.97

A5273. HEADBAND STYLE. With adjustable steel headband. Ideal for hearing-aid installations in churches, theaters, schools, lodges, etc. NET \$3.67

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A5275. NET \$3.97

HEARING-AID CONTROL BOX

For multiple hearing-aid installations in schools, theatres, churches, etc. Permits adjustment of volume to individual hard-of-hearing needs. Resistance, 10,000 ohms. Small and compact, only 1 1/2 x 3". Available in either glossy ivory or brown crystal finish. (Use Knight High Gain Amplifiers for group-hearing use. See P.A. Section beginning on page 69.) Shpg. wt., 1 lb.

A5280. Brown Crystal Finish. \$1.91

A5281. Glossy Ivory Finish. \$1.91



HEADPHONE CORD

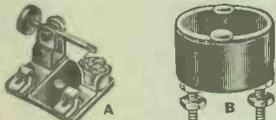
HEADPHONES CRYSTAL SETS *Accessories*



PHILMORE "DWARF" 1 TUBE RADIO

A new tiny self-contained complete portable radio. Presented in a handsome airplane luggage type case which measures only $3\frac{1}{4} \times 4\frac{1}{2} \times 3\frac{1}{8}$ " ; complete set weighs only 2 lbs. Easily carried anywhere; operates entirely from batteries contained in case. Covers standard broadcast band. Easy to tune and covers reception range of 50 to 100 miles. The "Dwarf" is supplied complete with one low-drain type 1E4G tube, two 2-cell flashlight type batteries, and single earphone. **\$3.90**
A7232. NET

CRYSTALS AND CRYSTAL DETECTORS

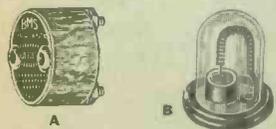


OPEN TYPE DETECTOR

A7062, FIG. A. Universal Joint on swivel arm provides quick, accurate adjustment on any point of the sensitive crystal. Complete with crystal. Wt., 8 oz. 10 for **\$1.10. EACH** **12c**

FIXED CRYSTAL DETECTOR

A7063, FIG. B. Extremely sensitive. Selected crystals are meter-tested and permanently adjusted. Housed in compact bakelite case. Eliminates bother of continual adjustment for sensitive spot. Pre-tested. **NET EACH** **43c**



FEDERAL FIXED DETECTOR

A4154, FIG. A. This pre-tested detector will give more selectivity to crystal sets or reflex circuits. Sensitivity is permanently fixed. In bakelite case. **NET** **53c**

GLASS ENCLOSED DETECTOR

A7061, FIG. B. A low-cost high-grade dustproof glass enclosed detector complete with supersensitive crystal. Standard in 90% of the crystal sets made. **NET** **22c**



FIG. A. Genuine Galena crystals, laboratory tested on sensitive meters. Fit all crystal cups. **A4150. NET** **12c**

FIG. B. Carefully tested mounted crystal. Sensitive galena. Fits all standard crystal cups. **A4151, 10 for 42c. EACH** **5c**

FIG. C. Cat-Whiskers, correctly designed and made of finest quality wire. Set of three. **A4152, 10 Sets, 70c. 1 Set** **8c**

AMERICAN BELL HEADPHONES



97c

These unusually sensitive and efficient headphones, produced by one of America's foremost manufacturers, are noted for tonal fidelity and clarity. Their aluminum shells and caps make them light in weight; one-piece stainless steel light-weight adjustable headband adds to comfort in wear and long-life utility. High-grade magnet gives extra retentivity. Ideal for use with crystal or battery sets as well as for all general-purpose requirements. Shpg. wt., 2 lbs. Real values in popular headphones.

WITH BAKELITE CAPS

A2812. Same phones as at right, but equipped with black bakelite caps instead of aluminum. 3000 Ohms. **\$1.32** NET.

EXTRA DIAPHRAGMS
A2809. NET EACH... **5c**

WITH METAL CAPS

A2807. 3000 Ohms. NET... **\$1.25**

A2806. 2000 Ohms. **97c** NET.

EXTRA ALUMINUM CAPS
A2808. NET EACH... **12c**

SINGLE HEADPHONE

A comfortable, dependable single unit headphone which is easy to wear. Has a single spring steel headband. Unit is of lightweight construction. May be used on any set equipped for phones; ideal for multiple hearing-aid installations. Complete with cord. An outstanding headphone value.

A2813. 1000 ohms. **66c** NET

A2814. 1500 ohms. **79c** NET



PHILMORE CRYSTAL SETS



"PETER PAN" SENIOR

A remarkably sensitive and efficient crystal set built into an attractive walnut cabinet. Features fixed crystal detector, single dial control, variable tuning condenser, spider web coil etc. Supplied complete with aerial and ground wire and pair of quality headphones. Size: $6\frac{1}{2} \times 4\frac{1}{2} \times 3\frac{3}{8}$ " Wt., 3 lbs. **A7234. Complete.**

NET **\$3.75**
A7235. Set Only. NET... **\$2.15**



"PETER PAN" JUNIOR

An attractive new crystal set in a good-looking walnut cabinet. Brings in stations over 25 mile area with fine tone and clarity. Has fixed crystal detector, permanently sealed at sensitive spot. Single dial control makes tuning unusually simple. Supplied complete with aerial and ground wire and single headphone. Size: $4\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$ " . An exceptionally sensitive, easy-to-operate crystal set at a very low price. Shpg. wt., 2 lbs.

A7247. Complete. **\$1.75** NET
A7248. Set Only. NET... **\$1.10**



THE "SELECTIVE"

Designed to give most efficient results and possessing unusual 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. It has double connection posts making possible the use of two pairs of headphones at one time. Covers reception range of about 25 miles. Contained in a crackle finish cabinet. Shpg. wt., 3 lbs. **A7053.**

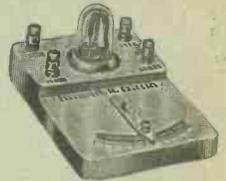
List, \$5.00. NET... **\$2.35**



THE "MONARCH"

A sensitive and attractive crystal set offering good reception over an average distance of 25 miles when suitable aerial is used. Has dust-proof, glass-enclosed crystal detector, solenoid coil, and engraved, calibrated dial with bar knob for strong reception and easy tuning. Built into crystalline case with clips for aerial and phone connections. Shpg. wt., 1 lb. An exceptional value in a dependable crystal radio receiver.

A7236. NET **88c**



PHILMORE "SUPERTONE" CRYSTAL SET

A well-constructed crystal set which will give unlimited service. Offers the utmost in entertainment on local stations over average distance range of about 25 miles when suitable aerial is used. A sensitive crystal is enclosed in a dustproof glass casing. In bakelite case. Shpg. wt., 2 lbs. **A7051. List, \$1.50. NET** **69c**



I.C.A. "TOPNOTCH"

A super-sensitive crystal set which brings in many stations with exceptional clarity and volume. Housed in a handsome crystalline metal case. Crystal is mounted under a dust-proof glass cover. Has beautifully engraved calibrated dial. Solenoid coil assures strong reception.

A7148. NET **88c**

A7149. Topnotch Crystal Set Kit. A complete kit of parts for building the set described above. Ideal for radio newcomers. **NET** **80c**

CRYSTAL SET ACCESSORY KIT

Complete equipment for operating any crystal set. Includes headphones, aerial and ground wire, lead-in strip, lightning arrester, insulators, etc. Shpg. wt., 4 lbs. **A7054. NET** **\$1.39**



1 TUBE "TINY TIM"

A complete one-tube battery set contained in a compact airplane luggage cloth finished cabinet measuring only $5\frac{1}{2} \times 2\frac{3}{4} \times 3\frac{3}{8}$ " and weighing only 1 lb. Uses 1-1E4G tube, 1-2 cell 3 volt flashlight type battery and single earphone—all contained in built-in compartment. With good aerial, range extends to 100 miles or more. Supplied complete (less aerial)—ready to operate. **A7231. NET** **\$3.23**

EARPHONE CUSHIONS

Make headphones comfortable and easy to wear. Made of soft spongy rubber. Sanitary and practical. Will fit all types of phones.



A2810. PER PAIR **22c**
10 PAIRS **\$1.95**

NEW! PORTABLE 1.4 VOLT PHONOGRAPH-RADIO

- New "Air-Magnet"
- Superhet Circuit
- Low-Drain Tubes
- Plays All Records
- Crystal Pickup
- Beautiful Tone

Here is a new double-duty musical instrument so cleverly designed, so versatile in operation, so packed with features for better performance and richer tone, that it will delight every listener. This new 1940 **Knight 1.4 Volt** Phonograph-Radio Combination combines the very latest type of 1.4 volt battery radio with a companion built-in phonograph to bring you both broadcast and recorded entertainment.

• **Carries Anywhere—Plays Anywhere.** The **Knight 1.4 Volt** Phonograph-Radio is completely portable. No aerial, no ground wire, no external connections are required. This splendid performer operates entirely from a self-contained battery pack. You can take it along with you wherever you go, and it's always ready for instant operation. The built-in "Air-Magnet"—the newest type of aerial—permits you portable radio reception. There's nothing to connect!

• **New 1.4 Volt Circuit.** The **Knight** Phonograph-Radio all standard Broadcast programs plus upper channel tunes 535-1720 K.C. for remarkably powerful reception of Police Calls. An efficient R.C.A. licensed Superhet circuit employs the new 1.4 volt low-drain tubes as follows: 1A7G as Det.-Osc. 1N5G as I.F.; 1H5G as Diode Audio; 1C5G as Automatic Volume Control assures splendid tone quality stations. Operating cost is amazingly uniform volume on all battery pack gives you 150 hours of service or more. "A" drain is only .25 amperes; "B" drain is only 11 milliamperes. Costs only a few cents a day to operate.

• **Newest Phono Equipment.** The latest high-quality phonograph components are employed for splendid reproduction of all 10- or 12-inch standard records. The heavy-duty phono motor is spring-wound and plays 7-10" record sides on a single winding. A balanced 9" turntable, new Crystal pickup, and built-in needle-up are other features. All recordings are reproduced through the amplifying system of the radio set for rich and full-bodied tone.

• **Deluxe Carrying Case.** A beautiful airplane-luggage type case houses the complete instrument. The lid includes a special rack for holding 8 records. Motor crank handle is easily detached when case is to be carried. Beautiful and durable case measures 15½" x 11¼" x 9¼".

• **Set Complete.** The **Knight 1.4 Volt** Portable Phonograph-Radio is supplied complete with tubes and built-in battery pack. The ideal companion for tourists, for school dormitories, for house-parties, etc. Supp. wt., 22¼ lbs. Code: ROVER.

A10826 Retail Value, \$44.95
NET EACH, 526.75. LOTS OF 3, EACH \$2575
A10049. Replacement 150 Hour "AB" Power Pack.
 Wt. 5 lbs. NET \$2.35



\$2575
 EACH, IN
 LOTS OF 3



FAMOUS Crystal EAR HEARING-AID WEARABLE TYPE — LOW PRICED

This new ultra-compact 3-tube Crystal type Hearing-Aid enables you to sit where you please and yet hear lectures, sermons, plays, sound movies, conversations, etc., in perfect ease. Three midjet-size tubes are employed to reproduce sound or music with remarkable fidelity. Exceptionally compact—measures only 6¼" x 3¼" x 1". Unusually easy to operate—all controls are at your finger-tips. No maze of wires to annoy you—only one for earphone and one for batteries. Special "frequency compensator" eliminates the need for factory fitting. You can adjust tone whenever you wish, merely by turning a small knob. You can control volume at will from a mere whisper to more power than anyone would need. Earphone is standard ear plug, only ¾" diameter. State whether for right or left ear, for child or adult. Here, at last, is a Wearable Hearing-Aid of proved quality, that is available for the first time at a moderate price.

\$6995

15 DAY TRIAL OFFER

Only when you have actually used the Crystal Ear Wearable Hearing-Aid will you fully appreciate the remarkable advantages it offers you. That is why we urge you to try it out for 15 days without risk. If you are not fully satisfied, every cent you have paid (less transportation charges) will be refunded. Supplied complete with insert Crystal Earphone, leather battery case, batteries, and tubes. Shpg. wt., 5 lbs.

A2625. Model 39BW Wearable Crystal EAR. **\$6995**
 List, \$100.00. NET
 Time Payments: \$7.00 down, \$8.66 monthly for 8 months.

A2632. "Candid" type leather carrying case as illustrated. Holds complete instrument and batteries. Makes hearing-aid portable as well as wearable. Illustrated in inset at right above. NET \$4.41



"REALPHONES"
 DUPLEX
 TELEPHONES
\$412

Unusually efficient and practical two-way French style telephones which operate on dry cell batteries. "Realphones" are a real economical convenience for use in homes or offices. They are exceptionally easy to install and provide an efficient method of communication between two points. These phones are sturdy, compact, attractive, and modern. Furnished in sets of 2, they are intended for use only in pairs. Only two standard dry cells needed for operation up to 450 feet. For greater distances use more batteries. "Realphones" are especially convenient as room-to-room or hour-to-garage telephones. In offices, schools, factories, public garages, restaurants, stores, etc. Full instructions for rapid connection are included with each set. Shpg. wt., 6 lbs.

ACCESSORIES

The only accessories required for use either indoors or outdoors are listed below.

A8925. Dry Cells for use with Realphones. 2 required per set.
 NET EACH 21c

A1984. 100 feet 3 conductor connector cable for outdoor use. Weatherproof type cable.
 NET \$1.87

A1985. 100 feet connector cable for indoor use.
 NET \$1.65

COMPLETE SETS

Complete set consists of 2 Realphones with buzzers and 35 feet of wire. Additional wiring may be added. Available in choice of colors. For use only in pairs.

A1980. Black.
A1981. Green.
A1982. Silver. **\$412**
A1983. Chinese Red.
 Per Set of 2, NET.....
 Lots of 3 Sets,
 Each Set **\$3.82**

Multiple Phone Systems for All Purposes.—We can supply multiple telephone systems for all types of installations. Write to us for descriptive literature on Serv-U-Phone systems providing from two to ten stations, including common-talk, selective, and super-selective types. There is a system available for every requirement. Write us, giving full particulars concerning the type of installation you require, and we shall quote promptly for the proper equipment at the lowest price.

The SERENADE

Glorious Phonograph Reproduction AT LOW COST!



The TROUBADOR

R. C. A.
LICENSED

New! Knight COMPLETE ELECTRIC PHONOGRAPHS

The SERENADE

ALLIED is first with a line of superb new instruments designed exclusively for Phonograph Record Reproduction! Here it is—a complete self-contained Electric Phonograph, a real musical instrument masterpiece that will play all phonograph records with flawless tone and surprising volume. Everything is completely built-in—powerful amplifier, speaker, turntable and pickup—nothing to add. Just plug in and enjoy thrilling phonograph entertainment! Costs no more than a player attachment only!

• **QUALITY PHONO EQUIPMENT.** Only the finest phono components are used. Incorporates a dependable rim-drive silent phono motor for steady 78 R.P.M. operation; self-starting, with 9" turntable; accommodates all 10-inch and 12-inch records. Has high-fidelity Astatic Crystal pickup.

• **SUPERB TONE.** The "Serenade" will satisfy the most critical music lover. The secret of its lifelike tone is in the novel new R.C.A. licensed amplifier circuit which develops amazing output, flawlessly reproduced by the 6-inch P. M. Dynamic speaker.

• **BEAUTIFUL STYLING.** You'll like the compact table cabinet of the "Serenade." Built of choice walnut veneers, in two-tone finish, it has a pleasingly curved end design and shaped speaker grille. Measures 12¼" x 9½" x 7½".

• **"SERENADE" COMPLETE.** The "Serenade" is offered as illustrated, complete, ready to play from 110 volts, 60 cycles A.C. Shpg. wt., 17 lbs. Code: LARGO.

A10900. Retail Value, \$19.95.

NET PRICE, EACH, \$12.45.

LOTS OF 3, EACH

\$11.95

The TROUBADOR

Here is another version of the Knight Complete Electric Phonograph in a striking new style presentation. Has all the fine features described above but is offered in a new style cabinet with lid. Has novel triangular design with soft-roll corners and graceful grille opening; fashioned of choice walnut veneers and flawlessly finished—lustrous as a mirror. Measures 16" x 12" x 10¼". Plays 10" records with lid closed. Comes complete for operation from 110 volts, 60 cycles A.C. Shpg. wt., 18 lbs. Code: ROBIN.

A10901. Retail Value, \$26.95.

NET PRICE EACH, \$16.35. LOTS OF 3, EACH.

\$15.65

The SONATA

The De Luxe model Complete Electric Phonograph! Plays 10" and 12" records with lid closed. Has all of the features described above. Superbly toned. Presented in violin-shaped cabinet with two-toned lid. Features choice walnut veneers throughout; meticulously finished. Size: 16" x 13½" x 10½". Complete for operation from 110 volts, 60 cycles A.C. Shpg. wt., 22 lbs. Code: PARTY.

A10902. Retail Value, \$34.95.

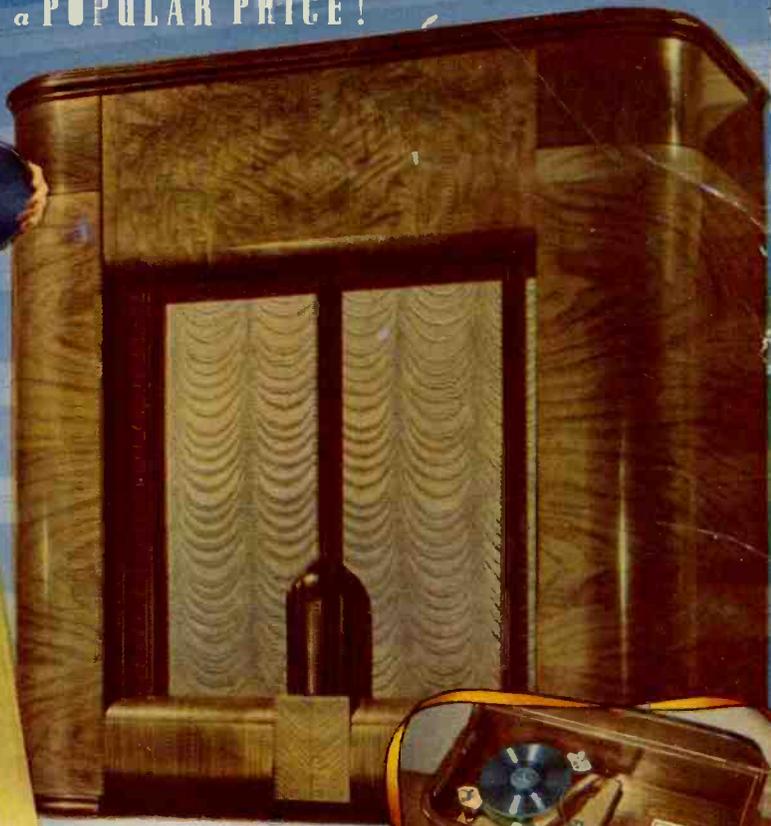
NET PRICE EACH, \$20.75. LOTS OF 3, EACH.

\$19.85

The SONATA

LOW-COST BEAUTIFULLY STYLED COMPLETE PHONO INSTRUMENTS

For the First Time! a Magnificent RADIO-PHONOGRAPH
with **RCA** AUTOMATIC RECORD CHANGER
at a POPULAR PRICE!



R.C.A. LICENSED

Knight 7 TUBE A. C. RADIO-PHONO

Here, in this completely Automatic 1940 Knight 7 Tube Radio-Phonograph, we bring you the greatest value in our history! We bring you Complete Entertainment—luxurious 2-Band Radio Reception and superb Automatic Record Reproduction—with rare perfection of tone, tremendous new features and outstanding cabinet beauty.

- **2 BAND RANGE.** The powerful Superhet circuit of the Knight 7 tunes two full bands: 535 to 1720 K.C. for all American Broadcast stations and important Police channels; and 18.1-5.65 M.C. for thrilling reception of the most popular foreign channels. Tuning is child's play with the new plastic-molded Pearlloid $5\frac{1}{4}'' \times 4\frac{1}{4}''$ Slide-Rule Dial. And the Electric Eye which is incorporated makes it even easier and more accurate to tune mechanically.
- **PUSH-BUTTON TUNING.** Entirely new Automatic Tuning for any four favorite stations. Front-adjusted type with effortless $\frac{3}{8}''$ stroke—just tip the button with your finger—and there's your station! You'll like the accuracy and convenience of Automatic Tuning.
- **BUILT-IN "AIR-MAGNET".** No aerial nuisance—no aerial or ground wires to bother with. Just plug in like any appliance, and the Knight 7 is ready for perfect performance.
- **NEW 1940 CIRCUIT.** You get radio's latest developments in the R.C.A. Licensed Knight 7. The new Superhet circuit uses: 6A8GT as Conv.; 6J5GT as Osc.; 6K7GT as I.F.; 6Q7GT as Det.-A.V.C.-1st Audio (triple-purpose); 25C6GT as Power Output; 25Z6GT as Rect.; 6U5 as Tuning Eye. This superb circuit assures completely enjoyable Home Entertainment.
- **"EXTRA-VALUE" FEATURES.** Just count them—Automatic Volume Control to assure uniform volume; big 4 watts output for plenty of reserve power; Variable Tone Control for added tonal enjoyment; Individual Coils on each band for greater tuning dependability, etc.
- **MAGNIFICENT TONE.** Whether you're playing Phonograph or Radio, you'll get endless pleasure listening to flawless, lifelike tone, brilliantly reproduced by a full 12-inch Electro-dynamic speaker of new design. You're never heard anything like it before!
- **R.C.A. RECORD CHANGER.** The last word in Automatic Record Changer equipment with self-starting motor and Gentle-acting feather-touch R.C.A. Crystal pickup. Plays eight 10" records or seven 12" records automatically at one loading.
- **SUPERB CONSOLE.** You've never seen such cabinet beauty! Magnificently proportioned, 1940 in styling, it utilizes matched stump walnut veneers on front panel, with matched walnut roll-around pilasters in rich, two-tone finish. Has graceful grille design. Hand-rubbed to a high lustrous finish. Size: 32" wide, 34" high, 15 $\frac{1}{4}$ " deep.
- **Knight 7 Phono-Radio Complete.** The Knight 7 is offered complete in console illustrated above, with R.C.A. Changer, 12-inch Dynamic Speaker, and tubes. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 105 lbs. Code: NOBLE.

A10825. Retail Value, \$119.50.
NET PRICE EACH, \$59.95.
YOUR PRICE, LOTS OF 3, EACH

\$57⁵⁰



Equipped with the latest genuine R.C.A. gentle-action Automatic Record Changer. Plays eight 10" records or seven 12" records automatically. Just load up and enjoy 30 minutes of care-free record entertainment.

Tune any four favorite stations automatically, instantly, accurately. Perfected Push-Button mechanism has effortless $\frac{3}{8}''$ stroke; easily adjusted right at the buttons; button faces magnify call letters for easy reading.



Enjoy the world's most fascinating radio entertainment. Tune the two most important radio bands. Thrill to programs from the most exciting foreign channels, and enjoy all coast-to-coast American Broadcast band stations.



WITH TELEVISION CONNECTION

The Knight 7 Radio-Phono is ready for Television when it comes! Equipped with connection for Television sound, it's fully ready for future developments. Knight for 1940 is truly the Radio of Tomorrow, created for you Today, to bring you complete enjoyment of both Radio or Phonograph Records!