

ALLIED RADIO

C O R P O R A T I O N

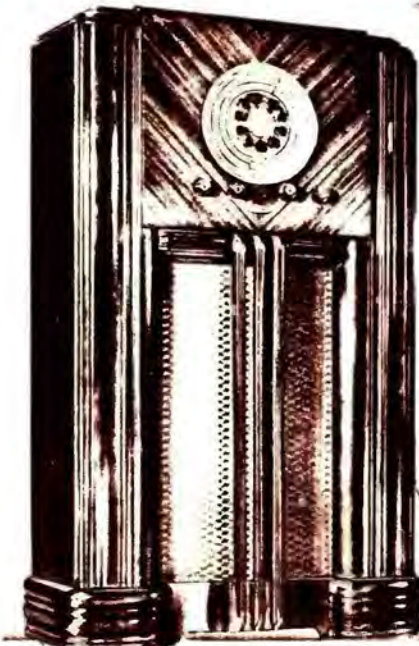
8 3 3 W. J A C K S O N B L V D. C H I C A G O

1938
Everything in Radio

WORLD-WIDE SETS • TUBES • ACCESSORIES • REPLACEMENT PARTS
SERVICEMEN SUPPLIES • TESTING EQUIPMENT • LABORATORY
EQUIPMENT • AMATEUR EQUIPMENT • EXPERIMENTERS' PARTS
S. W. APPARATUS • SET-BUILDERS' KITS • PUBLIC ADDRESS
TECHNICAL BOOKS • TOOLS • HARDWARE • ALL STANDARD LINES

FOR COMPLETE INDEX SEE PAGES 143-144

RADIO'S LEADING SUPPLY GUIDE



THE MOST YOU

that's



ALLIED SETS THE STANDARDS *by*

True VALUE represents much more than merely low prices. Naturally, ALLIED'S prices are the lowest in radio—but beyond this, we offer you the largest selection of regularly-stocked high quality merchandise, the fastest handling of every order, and radio's friendliest, most helpful personal service. It is this combination of "plus" services and consistently lowest prices which makes up ALLIED'S conception of VALUE and sets the standards by which VALUE must be judged. This is the policy which has earned for ALLIED the honestly-merited reputation of "Radio's Leading Supply House." Our old customers have always profited by the ALLIED concept of VALUE—our new customers will be sure to endorse it.

**YOUR DOLLAR
BUYS MORE
AT ALLIED
IN 1938**



Get more for your money on every purchase. Your radio dollar buys more at ALLIED in 1938. We have developed the most economical merchandising methods in the field to give you the fullest value for your money. We pass every saving on to you—that's why you get more, save more, profit more on every order. That's why we will never be undersold!

Since radio's earliest days, ALLIED'S high standards of quality have established an enviable tradition. Every item we sell (more than 12,000 in this complete catalog!) has been selected and approved in accordance with our searching standards of quality, of performance. This is your assurance of top-notch quality—of your money's worth 100% on every purchase.

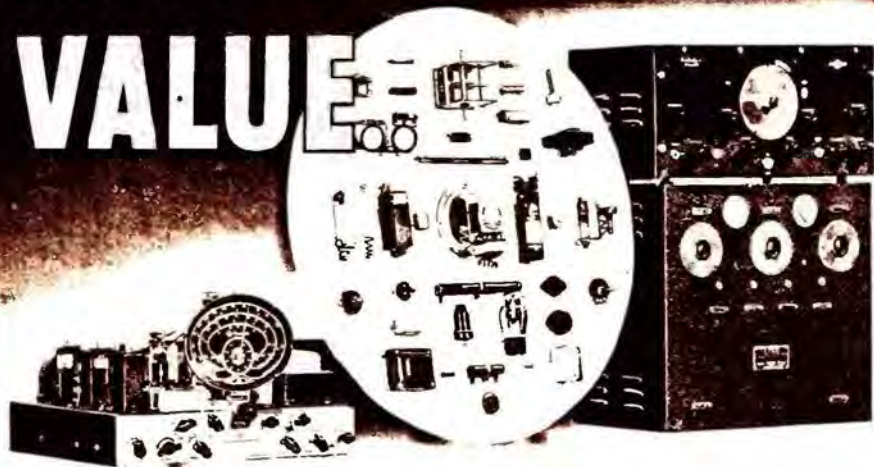
Every one of your orders is handled speedily and carefully by an efficient radio-minded organization. Our huge stocks, our central location, enable us to fill all your orders completely and instantly. Expert packing and shipping mean that every order reaches you safely—in perfect condition—ready for instant use. You get what you want when you want it!

ALLIED regularly stocks more than 12,000 selected radio items for you to choose from—the high-grade products of the leading radio manufacturers. ALLIED'S stocks are the most complete in radio. Recent expansion in floor space enables us to keep fully stocked at all times—ready to serve you without delay with fresh, clean merchandise that will meet with your whole-hearted approval.



CAN GET FOR YOUR MONEY—

VALUE



which VALUE MUST BE JUDGED!

DEALERS, SERVICEMEN, AMATEURS, AND LABORATORIES— LET ALLIED PERSONAL SERVICE HELP YOU!

Here at ALLIED we have built up a huge organization with the idea of "Service" uppermost in our minds. We want you to feel that ALLIED is more than just a business house; write to us about your problems on Radio Servicing, Building, Salesmanship, Short Wave, Sound, etc. Our extensive past experience enables us to answer you promptly, in a friendly, helpful manner. For thousands of Radio Dealers, Servicemen, Amateurs and Engineers, ALLIED'S Personal Service is a valuable aid, day in—day out.

For schools, laboratories and other institutions, we also offer Free Consulting Service. We are prepared to quote low estimates on bids and advise you as to proper equipment to meet your individual requirements. We are in constant touch with the leading radio manufacturers and can secure special and "hard-to-get" parts with minimum delay. If you require any item not listed in this catalog, send order with description and deposit and we shall secure it for you. You can depend upon ALLIED for Everything in Radio.

DON'T SPLIT YOUR ORDERS

We will never be undersold. We can also supply all types of special radio equipment, not shown in this catalog, at the lowest possible prices. Enter your order with full description and deposit and we shall secure the equipment for you. We are able to serve you best because we are the leading radio specialists. It pays to do your radio buying 100% from ALLIED.

ALL ORDERS FILLED

We set no restriction on the amount of your order. Whether it is big or small, we give you the benefit of our best service always. It's wise to buy where you know you will consistently be better served.

2% FREIGHT ALLOWANCE

Make your order \$25.00 or more and you may deduct 2% from the total as a transportation allowance. Whether you desire your shipment to go forward by Parcel Post, Express or Freight, the same money-saving 2% allowance will be made. This applies to shipments made anywhere in the United States on all radio merchandise described in this catalog, except National Co. equipment. (Foreign orders excepted.) It will pay to build up your orders to \$25.00 or more to take advantage of this extra saving.

WE INVITE YOU!

When you come to Chicago, be sure to visit our enlarged Radio Headquarters at 833 W. Jackson Blvd., conveniently located on the edge of Chicago's "loop." Take advantage of the many service facilities available. Visit our new Sound and Receiver Studio.

CHICAGO CUSTOMERS

For handy quick counter service, visit our impressive City Salesroom. Plenty of Free parking space always. I-R-S-M members, Engineers, and licensed Amateurs are always on hand to serve you. All Phones: HAYmarket 6800.

FULL DISCOUNTS

In addition to all trade discounts, a FULL 2% CASH DISCOUNT has already been deducted from every price in this book. Our net catalog prices are the prices you pay. All quotations are F.O.B. Chicago (except where noted). You receive full discounts even if you prefer part C.O.D. shipment. You save C.O.D. costs, however, by remitting in full. (We reserve the right to add any Federal or State Taxes which may be levied after this book is printed. Prices subject to change without notice.)

(See Page 142 for "HOW TO ORDER" information.)

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 CORP.

NEW... DEPENDABLE... AMERICA'S

R.C.A. & HAZELTINE LICENSED



Smart
BAKELITE CABINET...

- BEAM POWER OUTPUT
- 3" DYNAMIC SPEAKER
- BUILT-IN AERIAL
- BEAUTIFUL NEW DIAL

\$9.35
EACH
Lots of 3
(BLACK)

HANDY CARRYING CASE

A smart, convenient carrying case for the Knight 5 Tube AC-DC acts on this page and on page 5, or for any other compact radio measuring not more than 11 1/2" x 8 1/2" x 6". Of attractive Sonolite, with zipper opening and carrying handle.

BD148. List. \$2.50. **\$1.25**
YOUR PRICE.....



Knight 5 TUBE AC-DC 2 BANDS: 75-550 METERS

Smartly styled beauty—powerful performance—rich tone—all of these qualities have been combined in the Knight 5 AC-DC to make it the ideal personal or "spare" receiver. From its Dual Wave circuit to its ultra-modern Bakelite cabinet it is packed with new, valuable features, striking a new high in compact radio performance.

• **Tunes Two Bands.** The Knight 5 Dual-Wave AC-DC tunes from 75 to 180 meters, and 180 to 550 meters for strong reception of Short Wave Police and Amateur stations as well as standard Broadcast American and Canadian programs—enjoyable radio entertainment all over the dial!

• **Plays Anywhere.** Designed for office, home or traveling use, the Knight 5 AC-DC will play anywhere from 110 Volts, AC or DC, 40 to 60 cycles. (May also be operated from 220 Volts, AC or DC, with the adapter listed below.) From either type of current, reception is the same—always powerful and full-toned.

• **Beautiful Plastic Cabinet.** Especially attractive and practical, the handsome Bakelite cabinet will not scar or become discolored; it assures excellent acoustical quality and can be placed anywhere. Cabinets are available in choice of the following colors: glossy black, warm ivory, brilliant red, sleek walnut or smooth green. Pleasing streamlined design with rounded corners. Size: 10 1/2" x 8 1/2" x 6 1/2".

• **Powerful Circuit.** Licensed by R.C.A. and Hazeltine, the circuit of the Knight 5 develops full 2 watts output—outstanding in AC-DC sets of its compactness; has exceptional sensitivity and selectivity. Latest tubes used are: 6D6 as R.F.; 6C6 as Det.; 25L6 as Beam Power Output; 25Z5 as Rectifier; and L49C as Ballast. The 25L6 Beam Power tube is an important factor in the amazing power and tone quality of the Knight 5.

• **Latest Features.** Other advanced refinements which make the Knight 5 a real value leader are: full 3" dynamic speaker, mounted in front with adequate baffle area, handling the 2 watts output with smooth, rich, enjoyable clarity; novel 3 1/2" 3-colored, full vision dial with easy-to-tune knobs, accurate at all times; built-in antenna, etc. Here are "big-act" features at an amazingly low price.

• **Set Complete.** Order this set in quantity lots—use it as a demonstrator—its winning beauty, extreme versatility, and exceptional performance mean added sales and bigger profits for you! The Knight 5 Tube AC-DC for 110 Volts AC-DC, 40 to 60 cycles, complete with Raytheon tubes. Ship. wt., 9 lbs. Choice of Colors.

B10504. Ivory.
B10505. Red.
B10506. Green.
List. \$19.95

B10503. Black.
B10502. Walnut.
List. \$19.95.

NET EACH \$11.25. **\$10.65**
YOUR PRICE, EACH.....

NET EACH \$9.85. **\$9.35**
YOUR PRICE, LOTS OF 3, EACH.....

BD145. 220 Volt Adapter. NET..... 65c

Knight 5 TUBE AC-DC LATEST 1938 2 BAND MODEL

This attractive new Knight 5 Tube AC-DC receiver features the latest "Quick-Touch" Dial, dependable 2-band reception and amazingly fine tone at an unbeatably low price. Features you can't find in sets costing twice as much are incorporated, making the Knight 5 the compact value supreme.

• **New "QUICK-TOUCH" Dial.** The quick, easy way of tuning your favorite local stations. Just put your finger on the station you want, flick the dial, and your program is there—smoothly, conveniently. Of course, you may also tune all stations by number in the regular manner.

• **2 Band Range.** The Knight Dual-Wave 5 tunes two bands: from 75 to 180 meters for thrilling Police Call, Amateur and Airplane signals; and 180 to 550 meters for strong, reliable Standard Broadcast American and Canadian stations.

• **Extreme Versatility.** Operating from 110 Volts AC or DC, the Knight Dual-Wave 5 will play practically anywhere. It will also operate from 220 Volts, AC or DC, with the adapter listed below. The Knight 5 is conveniently portable, making it an excellent "company" receiver. Here's a set whose market is unlimited—a set you can sell everywhere—quickly and profitably!

• **Latest Circuit.** Compact, yet complete, the Knight 5 employs a sturdy chassis designed around an R.C.A. and Hazeltine licensed circuit, loaded with features not usually found in AC-DC portables. Tubes used are: 6D6 as R.F.; 6C6 as Det.; 25L6 as Beam Power Output; 25Z5 as Rectifier; L49C as Ballast. This efficient circuit develops full 2 watts output! The 25L6 tube provides full-strength reception on both standard Broadcast and Short Wave bands. Other new circuit features are: full-sized 3" dynamic speaker which provides full, rich tone, unusual for AC-DC receivers of this size; Litt-wound coils, assuring maximum sensitivity and selectivity; built-in antenna; etc.

• **Beautiful Cabinet.** The Knight 5 AC-DC is housed in an attractive cabinet, the top and front of which are of one-piece vertically-grained select walnut, with a pleasing roll-top effect. The grille opening is shaped to conform with the charming design. Has two-tone front base finish. Measures: 11 1/2" x 8 1/2" x 6 1/2".

• **Set Complete.** The new Knight 5 Tube Dual-Wave AC-DC for 110 Volts AC-DC, 40-60 cycle operation, is offered complete with 1—6D6, 1—6C6, 1—25L6, 1—25Z5 and 1—L49C Raytheon tubes. Shipping weight, 11 lbs. Code CLASS. A wonderful AC-DC radio value.

B10507. Walnut Value, \$13.95.
NET PRICE EACH, \$11.45.
YOUR PRICE, LOTS OF 3, EACH.....

BD145. 220 Volt Adapter for above set. NET..... 65c

\$10.85

with New QUICK-TOUCH Dial

- TUNES IN A FLASH
- DUAL WAVE RANGE
- 2 WATTS OUTPUT
- BUILT-IN AERIAL
- 3" DYNAMIC SPEAKER
- BEAUTIFUL CABINET

R.C.A. & HAZELTINE LICENSED



OUTSTANDING AC-DC RADIO VALUES!

R.C.A. & HAZELTINE LICENSED



Knight

7 TUBE AC-DC SUPERHET AN Amazing 3 BAND RADIO VALUE

Splendid new circuit features, powerful All-Wave reception and full rounded tone make this 1938 Knight 7 an unusually excellent buy. "Quick-Touch" dialing makes tuning easy and accurate; beam power tubes offer extra-tube efficiency at a sensationally low price; attractively designed cabinet makes the Knight 7 "at home" anywhere.

3 Full Bands. Continuous All-Wave reception is yours with the Knight AC-DC 7 Super. Tunes 17 to 55 meters for foreign and domestic Short Wave programs; 55 to 185 meters for Police, Amateur, Airplane signals; and 185 to 560 meters for powerful, enjoyable reception of standard Broadcast American and Canadian programs. Imagine dependable all-wave tuning at this low price!

Latest "Quick-Touch" Tuning. Styled to the minute, the Knight AC-DC 7 employs the newest easy way to tune. Just select any one of 12 of your favorite stations, flip the dial with your finger, and your program rolls in. Of course, you may also tune the Knight 7 in the conventional way.

Electric Eye. With both new "Quick-Touch" tuning and the unerring Electric Eye, you have the ideal combination for scientifically precise tuning. No noise—no "off-station" tuning—your programs flow in perfectly.

New Superhet Circuit. Powerful, dependable, expertly engineered to meet today's rigorous requirements for AC-DC sensitivity and selectivity, the circuit of the Knight 7 is licensed by R.C.A. and Hazeltine. High efficiency tubes are used as follows: 6A7 as Det.-Osc.; 6D6 as I.F. Amp.; 75 as 2nd Det.-A.V.C.-1st Audio; 25L6 as Beam Power Output; 25Z5 as Rectifier; 1A9C as Ballast; and 6G5 as Electric Eye. Has extra-tube efficiency! 25L6 Beam Power Output stage develops 2 full watt output, making the Knight 7 an exceptionally powerful AC-DC performer. Other outstanding features include: 5" dynamic speaker, capable of handling all programs with vivid, lifelike clarity; tone quality which has never before been possible in AC-DC receivers; Automatic Volume Control to assure uniform volume on all stations; Litz-wound coils for increased sensitivity and selectivity; etc.

Plays Anywhere. Versatility plus—that's the Knight 7 AC-DC Superhet! It will work perfectly from any 110 Volt, 40 to 60 cycle, AC DC outlet; and may also be operated from 220 Volts, 40 to 60 cycles, AC-DC, with the adapter listed below.

Attractive Cabinet. The beautiful modern cabinet of the Knight 7 harmonizes ideally with the sturdy, up-to-the-minute chassis. Front and one side are of one-piece choice walnut, with graceful rolled effect. Tastefully shaped grille with cut-out stripes conforms pleasingly to the design. Size: 14 1/2 x 9 1/2 x 7 1/4".

Set Complete. The new Knight 7 Tube 3-Band Superhet for 110 Volts AC-DC, 40-60 cycles operation, is offered complete with Raytheon tubes. Shipping weight, 11 lbs. Code: ENTRY.

B10509. Retail Value, \$35.00.
NET PRICE EACH, \$17.35.
YOUR PRICE, LOTS OF 3, EACH..... \$1650
B9145. 220 Volt Adapter for above Set. NET..... 65c

with New
**QUICK-TOUCH
DIAL**

The Knight 7 Tube 3-Band AC-DC Superhet, complete with tubes.

YOUR PRICE
LOTS OF 3, EACH

\$1650

- ALL-WAVE TUNING
- ELECTRIC EYE
- BEAM POWER TUBE
- FULL A.V.C. ACTION
- 5" DYNAMIC SPEAKER
- A SUPERB VALUE

Knight 5 TUBE AC-DC 2 BANDS: 75-550 METERS

Here's a typical ALLIED value! A new Knight 5 Tube 2 Band AC-DC receiver with desirable new features and smart, modern styling at a price you can't beat anywhere. We've priced this Knight set to sell, yet quality parts and careful construction come up to our high standards in every detail.

Two Band Reception. Tunes two full bands powerfully and enjoyably for Short Wave stations as well as all standard Broadcast programs. Range covers 75-180 meters for Amateur phone and Police calls; and 180-550 meters for popular American and Canadian standard Broadcast reception. Surprising distance reach and power make this new Knight an outstanding AC-DC Radio.

Will Operate Anywhere. You can operate the Knight 5 wherever 110 volts, 40-60 cycles Alternating or Direct current is available. Simply plug into electric outlet for instant performance. May also be used on 220 volts, 40-60 cycles AC or DC with special adapter listed below. Use the Knight 5 at home or at the office—take it along when travelling—it's the perfect "Companion" Radio.

R.C.A. and Hazeltine Licensed. A carefully engineered circuit, employing newest Raytheon tubes, is the foundation of the Knight 5 Tube radio's brilliant performance. Tubes are correctly chosen for greatest power and efficiency: 6D6 as R.F.; 6C6 as Det.; 25L6 Beam Power Output; 25Z5 as Rectifier; and 1A9C as Ballast. Full 2 watts output—remarkably high for a compact AC-DC receiver—is developed from the 25L6 Beam Power Output stage for strong reception and pleasing reproduction of every program. Litz-wound coils are used for utmost sensitivity and excellent selectivity. Specially matched 5" dynamic speaker provides faithful reproduction of both voice and music. Tone quality far surpasses that of ordinary AC-DC radios. Built-in aerial adds to convenience.

Handsome Portable Cabinet. The Knight 5 is offered in a newly designed cabinet that pleases the eye and provides proper acoustical backing. Has striped walnut face and top with beaded end panels. Pillow-shaped dial opening. Full 5 1/4" tri-color dial is clearly illuminated and easy-to-read.

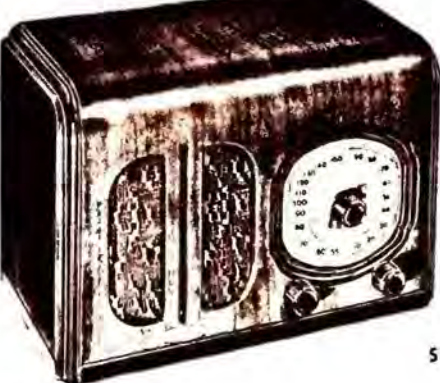
Set Complete. Knight 5 Tube 2 Band AC-DC for operation on 110 volts, 40-60 cycles AC or DC. Complete with 5" speaker and Kay tone tubes. Size: 11 1/2 x 6 inches. Shpg. wt., 12 lbs. Order several of these sets—use them as demonstrators. They'll bring you fast repeat business. Code: VERSE.

B10509. Retail Value, \$20.00.
NET PRICE EACH, \$10.45.
YOUR PRICE, LOTS OF 3, EACH..... \$995
B9145. 220 Volt Adapter, NET..... 65c

Splendid New Features

- BEAM POWER OUTPUT
- BUILT-IN AERIAL
- DYNAMIC SPEAKER
- NEW AIRPLANE DIAL
- PLAYS ANYWHERE

R.C.A. & HAZELTINE LICENSED





Knight 5 TUBE A. C. SUPERHET

in new Bakelite Cabinet

- 173-550 Meters • 2-in-1 Design
- Full A.V.C. • Gets Police Calls
- Airplane Dial • Dynamic Speaker

Here is a wonderful combination of versatility, beauty, and value in an ultra-modern compact radio set at an amazingly low price. The Knight 5 Tube A.C. Superhet is the ideal "utility" radio for the living room, spare room and office use. It will add distinction and beauty to any interior. 175 to 550 Meters are covered powerfully and dependably, bringing in standard Broadcast and police-call reception clearly and faithfully.

• Beautiful Airplane Dial • Newest Jumbo-shape, indirectly flood-illuminated, softly yet clearly. Calibrations are etched in color on a gold background and are ingeniously placed on the bias for easy-reading in both laydown and upright positions. Size 2x2 1/2".

• New Advanced Circuit. Licensed by the famous R.C.A. and Hazeltine Laboratories, assuring you of the latest engineering developments. Uses the latest tubes as follows: 6A7 as Det.-Osc., 6D6 as I. F., 75 as 2nd Det.-A.V.C.-1st Audio, 41 as Pentode Output, 80 as rectifier. This tube line-up assures high gain, big output and flawless tone fidelity. The tone of the Knight 5 is a constant joy.

• Latest Features. The Knight A.C. 5 has full A.V.C. action to assure uniform, consistent, full-sized electro-dynamic speaker with fine volume-handling capacity and excellent tonal response; special high-gain antenna coil of litz wire giving exceptionally increased antenna gain; statically shielded power transformer for noise-free operation, etc.

• 5 in. Airplane Dial. Knight 5 A.C. Superhet in handsome Bakelite cabinet, complete with Raytheon tubes. For operation on 110 Volts, 60 Cycles.

B10533 Black, List. \$27.50

NET EACH, \$12.95

LOTS OF 3, EACH..... \$1245

B10534 White, List. \$29.95

NET EACH, \$14.45

LOTS OF 3, EACH..... \$1395

RCA AND HAZELTINE LICENSED

\$1245

EACH, IN LOTS OF 3.

BLACK PLASTIC MODEL

This up-to-the-minute styled Knight 5 is beautifully presented in the smart new plastic cabinet shown above. It can be placed in either the upright or laydown position, the dial being perfectly legible in either case. Available in either glossy Ivory or rich Black, these sturdy, handsome cabinets will not mar or discolor, and assure finest acoustical quality always. The Ivory model is beautifully trimmed with gold finished grille, the fabric is woven with harmonious yellow tracer. The Black model is tastefully trimmed with a gleaming chrome grille and has a speaker cloth woven from black and silver fabric which lends a distinctive note to the entire color scheme. The Knight 5 A. C. is distinguished for both beauty and performance, conforming to the rigid Knight standards of radio value. Cabinet measures 11x7x6 1/4".

Knight 6 TUBE 2 BAND A. C. SUPERHET

Exceptional cabinet craftsmanship is evident in every line of the cabinet of the Knight 6. The chassis is housed in a beautiful walnut "laydown" cabinet. Top, front and bottom are rolled with rounded corners at both top and bottom of a single piece of vertically striped walnut. Richly-grained, and carefully matched, the wood contained in this cabinet has been especially selected to produce finest tone qualities. Ends are of color-matched selected red gum. Dial shape and speaker grille design conform to the pleasing, graceful lines of the cabinet. The entire cabinet, finished in a lustrous piano finish. The Knight 6 is a receiver that will make every owner proud of its beauty. Measures 17" long, 10 1/4" high, 8" deep.

- 3 BAND UTILITY
- WITH ELECTRIC EYE
- TONE CONTROL
- FULL A.V.C. ACTION
- 6" DYNAMIC SPEAKER
- LARGE 4 1/2" DIAL
- 3 WATTS OUTPUT

Value is the keynote of this new Knight Dual Wave A.C. Superhet—value that is expressed in its new exclusive features, strong power, exceptional performance, good looks, splendid tone, moderate price. Here's a quality receiver that everyone can afford!

• Tunes 2 Full Bands, 3-Band Reception! The Knight 6 tunes from 47 to 130 meters to bring in Short Wave Police, Aviation, and Amateur phone, as well as fascinating foreign reception on the popular 49 meter foreign broadcast and Police Wave channel. The second band covers 175 to 550 meters and tunes the upper Police channel and all American and Canadian standard Broadcast stations. Think of it— a 2-band set with actual three band reception!

• Electric Eye. You're assured of scientifically precise tuning with the accurate Electric Eye. You tune with the volume down, and when the dark sector is narrowest you turn the volume up—and there's your station—perfectly tuned!

• Equals the New Dial. Beautiful, modern, easy-to-read! It's pillow-shaped, edge-lighted, with silver face; the calibrations are etched in large black letters on a mottled silver background. Each wave band is clearly indicated. The Electric Eye is placed conveniently just above the dial.

• 6" Dynamic Speaker. To bring you the best in faithfully reproduced voice and music, the Knight 6 employs a full 6" electro-dynamic speaker. Electric note and nuance is brought out with matchless clarity. You'll thrill to this amazing tone quality of the new Knight 6!

• Tone Control. Usually found only in much higher-priced sets, the continuously variable Tone Control incorporated in the Knight 6 is an extra value feature. Adds to tonal beauty; permits personal accentuation of either bass or treble.

• New Extra-Power Superhet Circuit. Licensed by R.C.A. and Hazeltine, develops full 3 watts output. Latest tubes used are: 6A7 as Det.-Osc., 6D6 as I. F. Amp., 75 as Det.-A.V.C.-Audio, 41 as Power Output, 80 as Rectifier; and 6C5 is Electric Eye—actual 6 tube efficiency! Other features include: rubber-floated tuning condenser for greater stability; Automatic Volume Control to maintain uniform volume at all times, etc.

• The Knight Dual-Wave 6 is offered complete with cabinet and tubes. For 110 Volt, 60 Cycles AC operation. Code: GLEAM.

Shpg. wt. 15 lbs.

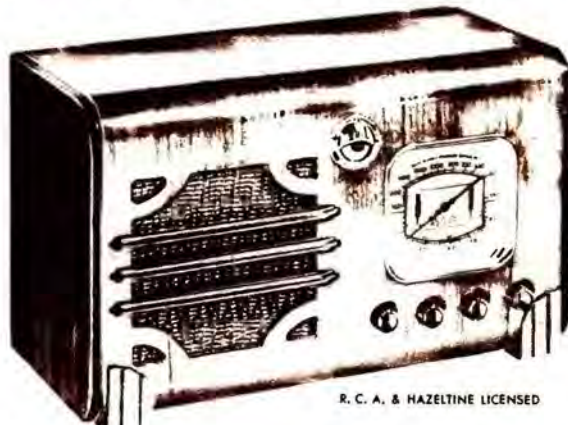
B10562.

Retail Value, \$37.50.

NET EACH, \$17.25

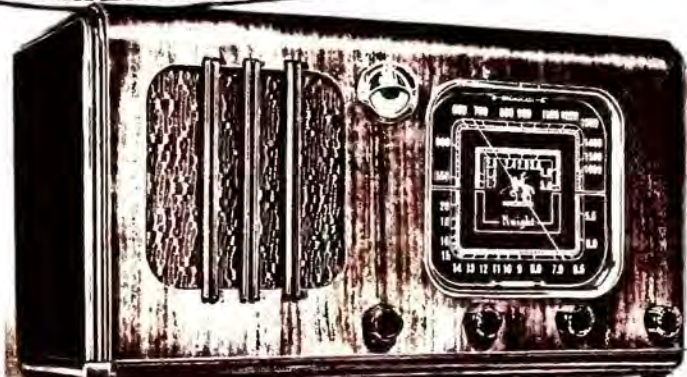
YOUR PRICE,

LOTS OF 3, EACH..... \$1725



R. C. A. & HAZELTINE LICENSED

A SMASHING RADIO VALUE-FEATURES GALORE!



- FOR 110 VOLTS AC OR DC
- WORLD-WIDE RANGE
- ELECTRIC EYE
- TONE CONTROL
- FULL A.V.C. ACTION
- BEAM POWER OUTPUT

\$21⁹⁵

EACH, IN LOTS OF 3

Knight 8 TUBE AC-DC 3 BAND SUPERHET

• **Incomparable beauty—luxurious tone—utmost versatility—extra reserve power—keenest selectivity and sensitivity—these are the qualities that make the 1938 Knight 8 the outstanding AC-DC receiver in radio!** Quality is unobtainable. Yet the price is unbelievably low.

• **Continuous All-Wave Tuning.** The Knight AC-DC 8 brings you unlimited reception from all over the world. Three complete, thrilling bands tune 17 to 55 and 55 to 175 meters for enjoyable foreign and domestic Short Wave Programs; and 175 to 350 meters for powerful American and Canadian standard Broadcast reception. Every band is alive with fascinating Program!

• **Superb Tone Quality.** The 6 1/4" speaker in the table model and the 8" speaker in the console bring vivid, accurate reproduction of all programs—you hear them just as they are broadcast! Clear, flawless power is developed by the new 25L6 Beam Power Output Tube, and reproduced with matchless clarity—never before have such power and tone been attainable in AC-DC receivers!

• **Newest Gold Dial.** Recognizing the fact that All-Wave Tuning requires a simple, easy-to-read dial, we have incorporated in the Knight All-Wave 8 a fully-illuminated, clearly legible dial. Measuring 6x6" in the table model and 6x8" in the console, this dial is clearly and accurately calibrated to facilitate Short Wave tuning. Important channels are plainly indicated—each band is clear—even a child can easily tune the Knight 8!

• **Accurate Electric Eye Tuning.** Unerring, precise and a real necessity for sharp tuning, the Electric Eye eliminates "off-station," "off-tone" tuning. Keep the volume down while tuning until the dark portion of the Eye is narrowest—then turn up the volume and let the program roll in—surely, perfectly!

• **R.C.A. Licensed Circuit.** Every new radio engineering achievement developed in the famous R.C.A. and Hazeltine laboratories has been incorporated in the brilliant Superhet circuit of the Knight 8. Newest Raytheon tubes are used: 6A8 as Det.-Osc.; 6D6 as I.F. Amp.; 76 as 2nd. Det.-A.V.C.-1st. Audio; 6C5 as Audio Amp.; 25L6 as Beam Power Output; 25Z5 as Rectifier; L40C as Ballast, and 6C5 as Electric Eye. Here's 9 Tube efficiency at the price of 8! Features include: Beam Power Amplification; special coil system; A.V.C.; Tone Control; rubber-coated condenser, etc.

• **Extra Versatility.** The Knight AC-DC Superhet will play wherever 110 volts AC or DC, 60 cycle current is available. For 220 volts AC or DC, use the line cord listed below. The Knight 8 AC-DC Superhet table model is offered complete with 6 1/4" speaker and Raytheon tubes. For 110 volts AC or DC, 60-60 cycles. Shipping weight, 21 lbs. Code: SPORT.

B10510. Retail Value, \$49.50.
NET PRICE EACH, \$23.45.
YOUR PRICE, LOTS OF 3, EACH..... \$21⁹⁵
B9145. 220 Volt Adapter, NET 65c.



1938 BEAUTY
 The 1938 Knight 8 Tube All-Wave Superhet is beautifully presented in the handsome table cabinet shown above. Top and front panel are of one-piece vertically-grained select walnut in beautiful rolled-top effect. The simple but attractive grille design with vertical overlay bars enhances the smart 1938 appearance of the Knight 8. Entire cabinet is hand-rubbed to a soft, pleasing finish. Size: 18 1/2 x 9 1/4 x 7 3/4".

KNIGHT 8 TUBE AC-DC CONSOLE MODEL

The Knight All-Wave 8 is also offered in the superb console model shown at the right. The finest butt walnut hardwood veneers are incorporated; careful craftsmanship is reflected throughout its construction. Handsome roll-top harmonizes splendidly with the shaped and fluted side pilasters. A beautifully figured, tasteful grille cloth is used behind the shaped walnut grille opening. Measures 37" high; 18" wide; 10" deep. The chassis is exactly the same as in the table and chairside models, with the exception that the dial size is 6x8" and the speaker diameter 8". This oversized, super-dynamic speaker has been incorporated in the console model to bring you the peak performance of which the Knight 8 is capable—the mellow richness, the magnificent depth of tone which this console radio, using adequate baffle area, provides. To see and hear the Knight 8 AC-DC is to experience the peak of modern radio enjoyment. It will add charm and dignity to any setting, thrilling entertainment to every home.

• **The Knight 8 Tube AC-DC Console Model is offered complete with Raytheon tubes.** For operation from 110 volts AC or DC, 40 to 60 cycles. Shpg. wt., 44 lbs. Code: SHADE.

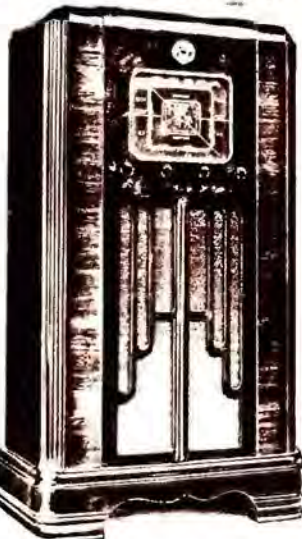
B10511. Retail Value, \$76.50.
NET PRICE EACH, \$36.56.
YOUR PRICE, LOTS OF 3, EACH..... \$34⁵⁰

BEAUTIFUL CHAIRSIDE MODEL

The 1938 Knight 8 Chairside Model offers the utmost in comfort, grace and beauty when placed next to a soft or easy chair. Cabinet has top and sides of one-piece vertically striped walnut. Has convenient and attractive shelves for books, etc. Here is the utmost in tuning convenience—the dial and knobs are placed on the top of the cabinet, so that tuning is leisurely, luxuriously simple. The chassis is the same as in the Knight table model described above: 8 tube AC-DC R.C.A. and Hazeltine licensed circuit; 6x6" giant colored dial; 8" dynamic speaker; Electric Eye; full Automated Volume Control; Continuously Variable Tone Control; 25L6 Beam Power Output Tube, etc. Measures 26 1/2" high; 21 1/2" long; and 12 3/4" deep.

• **The Knight AC-DC All-Wave Superhet Chairside Model is offered complete with 8" speaker and Raytheon tubes.** For 110 volts AC or DC, 40-60 cycles. Shpg. wt., 41 lbs. Code: HEART.

B10512. Retail Value, \$57.50.
NET PRICE EACH, \$27.16.
YOUR PRICE LOTS OF 3, EACH..... \$25⁹⁵
B9145. 220 volt adapter, NET..... 65c
 (For efficient serial, see p. 99.)



**WITH THE
EXCLUSIVE
New BASS
INTENSIFIER
CONTROL**

- 3 Bands
- 3 Watts Output
- Electric Eye
- 6 1/2" Speaker
- Giant Dial
- Tone Control
- Full A.V.C.
- Preselector

\$25.95
EACH
IN LOTS
OF 3

Knight 7 TUBE 3 BAND A.C. SUPERHET



R.C.A. & HAZELTINE LICENSED

This new 1938 Knight 7 Tube All-Wave Radio is a model of which we're exceptionally proud—and justly so. That's because it's actually one of the finest 7 tube table models offered anywhere today—even at much higher prices. Outstanding for richness of tonal quality, for sensitivity and selectivity in tuning, the Knight 7 is a rare value at our very low price. Exclusive new features and skillful engineering have been combined to give you thoroughly enjoyable, modern radio performance. When you see and hear the Knight 7 in operation, you'll agree with us that it's an unbeatable value.

• **Rich Tonal Beauty.** A noteworthy feature of this new receiver is its unusually life-like tonal quality. A full 6 1/2" Dynamic Speaker, personal Tone Control, and new exclusive "Bass Intensifier" bring you "Broadcast Studio" reproduction of every program. Every note, every sound is brought to you vividly, full-bodied, and clearly. The "Bass Intensifier" brings up the low notes which have heretofore been lost, to assure correct shading and depth. The personal Tone Control permits you to select treble or bass emphasis at will. The result is true beauty of tone which will delight the most discriminating listener. Furthermore, a full 3 watts undistorted output is developed.

• **Brilliantly Engineered Circuit.** R.C.A. and Hazeltine licensed, the Superhet circuit of the Knight 7 incorporates every desirable feature. Includes heavy-duty 3 gang condenser with pre-selector stage; Continuously Variable Tone Control; full Automatic Volume Control; new single-unit pre-assembled coil systems; triple filtering; shielded circuit components, etc. Latest Raytheon tubes are used as follows: 6A7 as Det.-Osc.; 6D6 as I.F. Amp.; 76 as Diode Det.-A.V.C.; 75 as 1st Audio; 42 as Power Output; 80 as Rectifier; 6U5 as Electric Eye. These efficient types account for the strong power and long-distance range of the Knight 7 Tube All-Wave Radio. They assure full and faithful reproduction of every program from near or far.

• **World-Wide Tuning Range.** The 1938 Knight 7 tunes the world in three full bands, continuous (no gaps or skips) from 16 to 550 meters. The 16-52 meter band covers foreign and domestic Short Wave stations efficiently and reliably; 52-175 meters covers Ships-at-Sea, Airplanes, Amateurs, and Police; and 175-550 meters tunes enjoyable coast-to-coast American and Canadian stations. A twist of the dial of this amazing new Knight brings the whole world of radio into your home.

• **New Easy-to-Tune Dial.** New full-illumination, pillow-shaped airplane dial measures 6 1/2" x 7 1/2"; gold-faced and edge-illuminated. Large, easy-to-read numerals are etched on a pleasing gold background. Each channel is clearly marked and accurately calibrated for quick reference. The Electric Eye is incorporated conveniently in the dial face for fullest utility.

• **Modern Table Cabinet.** 1938 in styling and execution. Top, front, and bottom are shaped from a single piece of selected grain walnut. Grille is scroll-cut from panel; protruding base mounts neatly set off front face. The entire cabinet is hand-rubbed and highly polished to a gleaming finish. Size: 19" x 11 1/2" x 10". Well-suited for bookshelf, table, or desk.

• **Set Complete.** The Knight 7 Tube 3 Band A.C. Superhet is supplied complete with Raytheon matched tubes and full 6 1/2" dynamic speaker. For operation from 110 volts, 60 cycles A.C. Shipping weight: 23 lbs.

Code: STATE
B10335
Retail Value, \$37.50
NET PRICE EACH, \$27.45
YOUR PRICE,
LOTS OF 3, EACH..... **\$25.95**

Knight 5 TUBE A.C. SUPERHET



2 BANDS: 16-51; 175-550 METERS

An almost unbelievable "buy" at ALLIED'S low price! Check the features of this new Knight 5 Tube Dual Wave Receiver; note our money-saving price, and you'll wonder how ALLIED can do it. The 1938 Knight 5 Tube A.C. Superhet has the features of sets costing twice as much. Extra utility tuning range, realistic tone quality, generous reserve power, and latest refinements—that's real value!

• **1 Band Utility.** The Knight 5 is practically an All-Wave receiver. Its tuning range covers 16 to 51 meters and 175-550 meters for reception of everything on the air that's interesting and important. The Short Wave band from 16-51 meters tunes Amateur, Aviation, and Police calls, plus the always enjoyable 49 meter Foreign program channel. 175 to 550 meters covers upper Police wave bands and all standard Broadcast American and Canadian stations. This is actual three-band efficiency.

• **New Gold-Faced Dial.** An unusually attractive gold-faced, pillow-shaped airplane dial. Measures 5 1/2" x 7 1/2". Fully illuminated from all sides. Upper scale is clearly calibrated in kilocycles for Broadcast band; lower in megacycles for Short Wave.

• **R.C.A. and Hazeltine Licensed Circuit.** New Superhet carefully engineered circuit uses latest Raytheon tubes: 6A7 as Det.-Osc.; 6D6 as I.F. Amp.; 75 as Det.-A.V.C.—1st Audio; 41 as Power Output; 80 as Rectifier. Each tube contributes effectively to the powerful undistorted output to develop actual 7 tube utility and performance. A special 465 K.C. wavetrap circuit is also incorporated; prevents code interference on Broadcast band. Full Automatic Volume Control maintains uniform volume level.

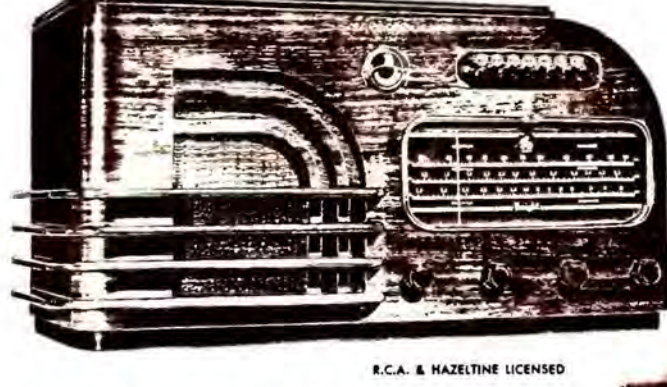
• **Delightful Tone.** New heavy-duty 6" dynamic speaker affords highest quality reproduction of all programs. Its rich, smooth tone is startling in such a low-priced receiver. The Knight 5 is a joy to listen to.

• **The 1938 Knight 5 Tube A.C. Superhet in table cabinet, complete with 6" Speaker and Raytheon tubes; for 110 volts, 60 cycles A.C. Shipping weight: 23 lbs. Shpg. wt., 15 lbs. Code: PLATE. B10336. Retail Value, \$37.50. NET PRICE EACH, \$27.45. YOUR PRICE, LOTS OF 3, EACH..... **\$16.45****

• **Handsome New Cabinet.** The 1938 Knight 5 is presented in a very attractive "laydown" table cabinet styled right up to the minute. Sweeping roll-top, front face, and bottom are of lustrous grained walnut set off with shaped sides and fluted base mounts. Pleasing grille cut-out lends horizontal emphasis with bar effect. Cabinet dimensions: 15 1/2" x 9 1/2" inches. Just the right size for a shelf in your bookcase, an end table, or a mantel.

- 3 BAND UTILITY
- LARGE AIRPLANE DIAL
- SPECIAL WAVETRAP
- FULL A.V.C. ACTION
- 6" DYNAMIC SPEAKER
- HIGH-GAIN OUTPUT

WITH THE NEW 1938
PUSH-BUTTON



R.C.A. & HAZELTINE LICENSED

—*Selectronic*—
AUTOMATIC DIAL

- 10" SLIDE-RULE DIAL
- ELECTRIC EYE
- TONE CONTROL
- FULL A.V.C. ACTION
- 6½" DYNAMIC SPEAKER
- WORLD-WIDE RANGE
- FULL 3 WATTS OUTPUT

\$27.35

EACH
IN LOTS
OF 3

Knight 6 TUBE 3 BAND A. C. SUPERHET

Now you can enjoy Automatic Push-Button tuning in a table model radio at a really popular price! This convenient new way of tuning your station simply by pushing a single button has been available before only in expensive console model receivers. The new Selectronic Automatic Dial is combined with other outstanding new features in this new 1938 Knight 6 Tube 3 Band A.C. Superhet to bring advanced radio performance at a price any one can afford. We invite you to compare the Knight 6 with other makes because we know this new receiver out-performs them all.

• **Co-ordinated Automatic Tuning.** The amazing new Selectronic Dial, new 10" Slide-Rule scale, and Electric Eye—combine to provide the utmost in tuning convenience. The Selectronic Dial consists of 7 push-buttons; 6 station buttons and 1 station "clearer." Just push a button—there's your station! Tunes right on the head every time! Selectronic Tuning is unusually simple. The six selected stations are set out by easily accessible trimmer condensers and will operate thereafter without further adjustment. Provision is made for inserting the desired station call letters above each button. Regular tuning is also revolutionized in the Knight 6 by the new 10" Slide-Rule horizontal dial with vertical travelling pointer. Has three separate scales for standard Broadcast, Me-

dium Wave, and Short Wave stations. You know exactly which band you're tuning with this new, sensible kind of dial. Each scale is of equal length—stations are 60°-6-4-0 out for quicker logging. Electric Eye—the modern visual tuning aid—further simplifies station selection. When the Selectronic Dial is not in use, the Electric Eye helps you to tune accurately, the visual way.

• **Powerful Superhet Circuit.** Using the latest types of Raytheon tubes in an R.C.A. and Hazeltine licensed Superhet circuit, the Knight 6 develops remarkable power and distance reach. Includes: 6A5 as Det.-Osc.; 6D6 as I.F. Amp.; 6G7 as 2nd Det.-A.V.C.-1st Audio; 41 as Power Output; 80 as Rectifier; and 6G5 as Electric Eye. All circuit components are carefully selected and matched for "balanced" radio performance. Other developments are: full Automatic Volume Control to maintain steady volume level; personal Tone Control to permit personal emphasis of base or treble; full rubber-floated tuning condenser for greatest selectivity; Litz-wound coils for maximum sensitivity, etc.

• **All-Wave, World-Wide Reception.** Travel the airwaves from your easy chair. Tuning range from 17 to 560 meters leaves no gaps. Tunes 17-55 meters for Short Wave foreign and domestic stations; 55-185 meters for SHIP-AT-

Sea, Airplanes, Amateurs and Police Calls; and 185-560 meters for unusually dependable standard Broadcast American and Canadian reception. Every band is alive with entertainment. • **Rich, Vital Tone.** Enjoy the lifelike voice of the Knight 6. The 41 Power Output stage develops a full 3 watts output which is clearly and faithfully handled by the full 6½" dynamic speaker. Adequate baffle area brings you all the nuances and overtones.

• **Ultra-Modern Table Cabinet.** A most appropriate complement to this ultra-modern receiver. A gorgeous creation with walnut top and sides; front panel and left side of one-piece, horizontally-striped walnut with striking "roll" effect. Streamlined protruding speaker grille louvers. Contrasting toned base. Entire cabinet rubbed to a piano finish. Here's a cabinet to be proud of—a radio worth cheering about. Size: 23½" x 12" x 10¼".

• **The Knight 6 Tube All-Wave Band A.C. Superhet complete with speaker and Raytheon tubes.** For 110 volts, 60 cycles A.C. Shipping weight: 22 pounds.

Code: HOUSE
B10514, Retail Value, \$59.95.
NET PRICE EACH, \$28.45.
YOUR PRICE, LOTS OF 3,
EACH, **\$27.35**
(For efficient serial, see page 99)

Knight 5 TUBE 2 BAND A. C. SUPERHET

TUNES 47-130; 174-550 METERS

We've outdone ourselves to bring you this sensational offering—a 1938 designed Knight 5 Tube 2 Band A.C. Superhet, built up to a standard, yet priced extraordinarily low! From cabinet to circuit components this new radio fairly shouts "Value!" It has the features of sets at double the price! 3 Band efficiency, full 3 Watts output, rare tonal beauty, easy-to-read square airplane dial, full dynamic speaker, and new Superhet circuit. Check these:

• **3 Band Efficiency.** Tunes two full bands—47-130 meters for Short Wave police, aviation, and amateur calls in addition to the thrilling 49 meter Foreign Short Wave band; and 174-550 meters to cover upper police channels and amazingly powerful reception of American and Canadian standard Broadcast programs. This is practically 3 Band reception—and the Knight 5 performs powerfully on both ranges.

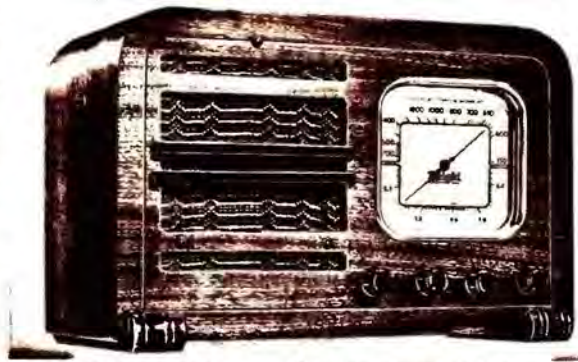
• **3 Watts Output.** Latest R.C.A. tubes in a new R.C.A. and Hazeltine licensed Superhet circuit develop full 3 watts power output; 6A7 as Mod.-Osc.; 6D6 as I.F. Amp.; 75 as Det.-A.V.C.-1st Audio; 41 as Power Output; and 80 as Rectifier. 5 tubes do the work of 7.

• **Striking Tone Quality.** Latest heavy-duty 6" dynamic speaker selected and matched, provides finest acoustical response. Enjoyable realism of tone is further achieved through personal Tone Control which permits accentuation of base or treble. Volume level, too, is constantly controlled by full Automatic Volume Control.

• **New Airplane Dial.** The latest type of airplane dial—4½" in size and edge-lighted—makes tuning easy and convenient. Clearly calibrated in kilocycles on Broadcast band; in megacycles on Short Wave band. Dial is full-tension type and is exceptionally attractive.

• **Set Complete.** The Knight 5 is offered complete in table cabinet with 6" speaker and R.C.A. tubes. For 110 volts, 60 cycles A.C. Shipping weight: 15 lbs. Code: CABIN.

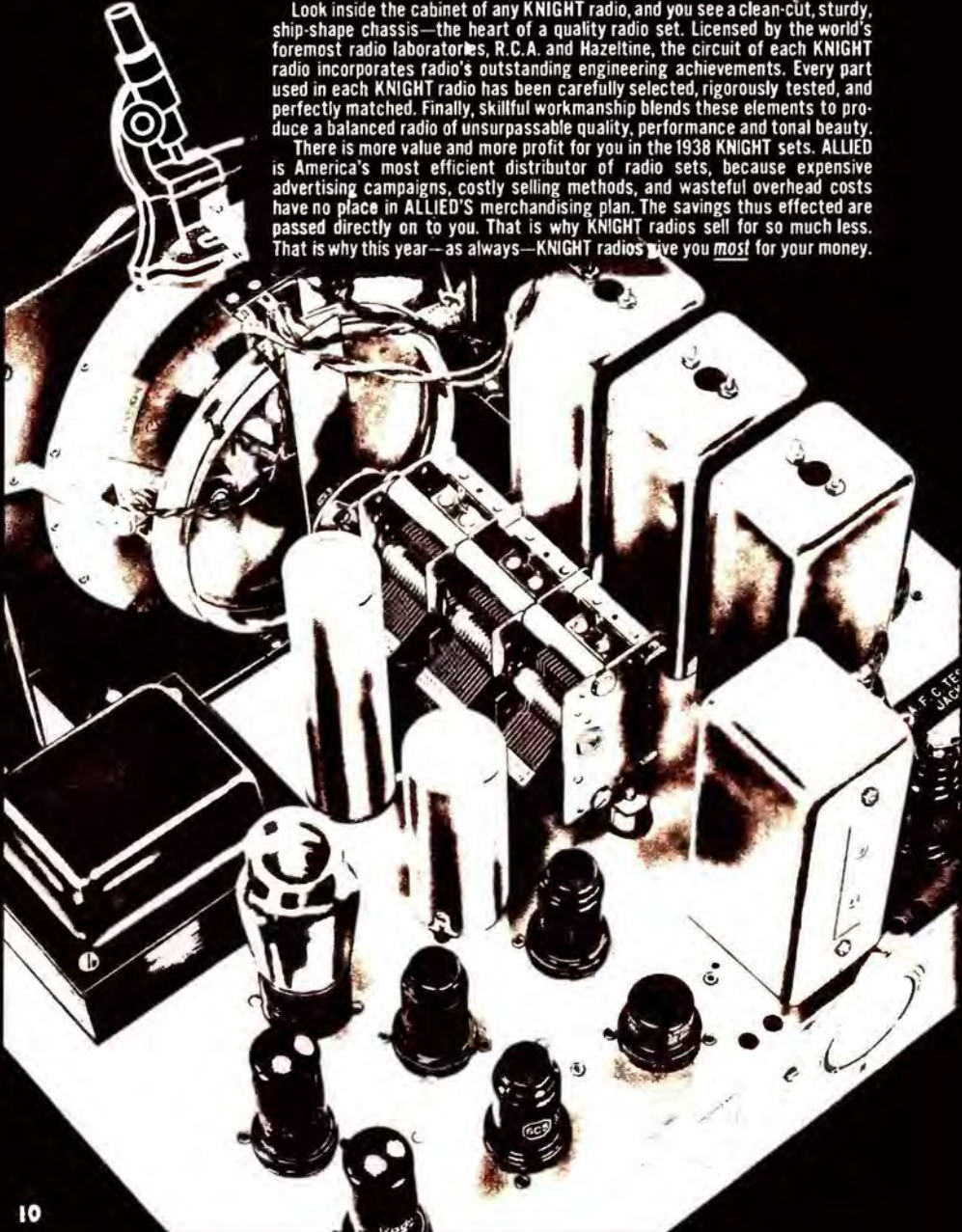
B14663, Retail Value, \$35.00.
NET EACH, \$16.55.
YOUR PRICE, LOTS OF 3, EACH, **\$16.25**



- 3 BAND EFFICIENCY
- WITH TONE CONTROL
- 3 WATTS OUTPUT
- FULL A.V.C. ACTION
- 4½" AIRPLANE DIAL
- 6" DYNAMIC SPEAKER

• **Unusually Attractive Cabinet.** Gracefully proportioned, this new cabinet is "correct" for any interior. Choice walnut woods are used throughout. Its roll-top effect at sides and top, horizontally grained front panel, and graceful, rounded base mounts. Horizontal grille bars and single all-around routing line enhance the appearance. Dimensions: 14½" x 8½" x 11 inches. This truly beautiful table model radio will lend distinction to any home background and give splendid performance.

Let's LOOK at a Knight RADIO



Look inside the cabinet of any KNIGHT radio, and you see a clean-cut, sturdy, ship-shape chassis—the heart of a quality radio set. Licensed by the world's foremost radio laboratories, R.C.A. and Hazeltine, the circuit of each KNIGHT radio incorporates radio's outstanding engineering achievements. Every part used in each KNIGHT radio has been carefully selected, rigorously tested, and perfectly matched. Finally, skillful workmanship blends these elements to produce a balanced radio of unsurpassable quality, performance and tonal beauty.

There is more value and more profit for you in the 1938 KNIGHT sets. ALLIED is America's most efficient distributor of radio sets, because expensive advertising campaigns, costly selling methods, and wasteful overhead costs have no place in ALLIED'S merchandising plan. The savings thus effected are passed directly on to you. That is why KNIGHT radios sell for so much less. That is why this year—as always—KNIGHT radios give you most for your money.

61 GREAT NEW 1938 MODELS

A Radio for Every Purse and Purpose

MORE VALUE—MORE PROFIT FOR YOU!

Skyrocketing beyond all previous records—the demand for **KNIGHT** Radios is sure to hit a new high for 1938! What's the magic—what's the secret behind this phenomenal sales success? The answer is—there's no magic—there's no secret—there is only the most honest merchandising in the world behind every **KNIGHT** Radio. Ours is a simple formula—the only successful one in the long run: (1) Build the best radios money can buy; (2) Sell with minimum distribution cost and overhead expense; (3) Achieve enormous sales volume by selling at bottom prices. It is this formula that brings you radio's biggest values and profit-making opportunities.

Exclusive 1938 Knight Features!

The latest developments of the foremost radio engineers have been incorporated in the new **KNIGHT** 1938 models. These receivers have been styled with an eye toward the future. The technical perfection of every **KNIGHT** Radio is matched by the latest cabinets distinguished for graceful, pleasing beauty and master-built construction. The 1938 **KNIGHT** Radios demonstrate again that only **ALLIED** can offer you the highest quality radios with the finest features—at the lowest prices.

- 1 **Select-O-Matic Push-Button Tuning.** Amazing! Revolutionary! Push a button and there's your station! Tunes 8 stations in 8 seconds—electrically, instantly, perfectly. The finest, genuinely automatic tuning device in 1938 radios. Combined with 9' slide-rule tuning scale for perfect tuning.
- 2 **Select-O-Dial Tuning.** New automatic station-selector—a de luxe feature—offered for the first time in popular-priced **KNIGHT** Radios. Simple, convenient, precise.
- 3 **Automatic Frequency Control.** For the first time at popular prices. "Snaps" your program into perfect focus—you can't tune "off-tone." This is one of radio's very latest and finest features.

The new 1938 **KNIGHT** Radios give you more for your money in every way: performance, tone, beauty, and features. These quality receivers cost just as much to make as the most expensive sets. Every **KNIGHT** Radio is built of the finest materials. Each component part has been carefully selected, matched, and pre-tested for durability and efficiency. Brilliant engineering, skilled craftsmanship, and rigorous production standards result in the finest radios you can buy. But, because **KNIGHT** Radios sell for so much less, each one of the 61 great new 1938 models offers more value—more profit for you! In 1938 you'll save, you'll profit with **KNIGHT**!

- 4 **New Full-Volced Speakers.** Latest powerful electro-dynamics in AC and AC-DC models; new special alloy P.M. dynamic types in battery models. The finest speakers made. Perfectly matched with each receiver for finest tone.
- 5 **Newest Tube Types.** Perfected metal, glass, and octal-glass tubes are specially selected for each circuit. Each type is correctly used for greatest efficiency.
- 6 **Electric Eye.** Shows you visually when your station is perfectly tuned. Eliminates guess-work and noisy tuning.
- 7 **Broadcast Studio Tone Quality.** A constant characteristic of all 1938 **KNIGHT** Radios. Every effort has been made in both circuit design and speaker matching to assure a full rich fidelity of tone on all programs at any volume level.
- 8 **World-Wide Range.** All **KNIGHT** 3-Band Radios tune the whole wide world—powerfully, dependably, with full tuning ease. **KNIGHT** 3-Band Radios bring you fascinating entertainment.
- 9 **New Chairside Cabinets.** Beautiful, practical, and convenient. Bring your radio set to your side. Tune at your ease—luxuriously, comfortably.

TO HELP YOU SELL KNIGHT RADIOS

Sell more **KNIGHT** Radios with this attractive and valuable Retail Sales Folder. Write for sample copies. Shows illustrations and descriptions of all **KNIGHT** models with list prices only. A real sales promoter! We'll imprint your own business name and address at nominal cost. Make bigger profits selling 1938 **KNIGHT** Quality Radios.

NOTE: Practically every **KNIGHT** AC Radio is available with special transformer equipment for 95-230 Volts, 25-60 cycles operation at slight additional cost. Write for quotations.

NOTE: For quick shipment and safe delivery, we recommend that all radio receivers be ordered shipped by express. See page 142 for handy table of express rates or consult your local express



Guarantee

Any **KNIGHT** Radio that does not satisfy completely, if returned within 15 days after purchase, will be promptly adjusted by exchange, repair or full refund, less transportation charges. Furthermore, every **KNIGHT** Radio is also covered by the Radio Manufacturers' Association Guarantee against defects in materials or workmanship over a period of three months from date of purchase.

—ALLIED RADIO CORP.



1



2



3



4



5



6



7

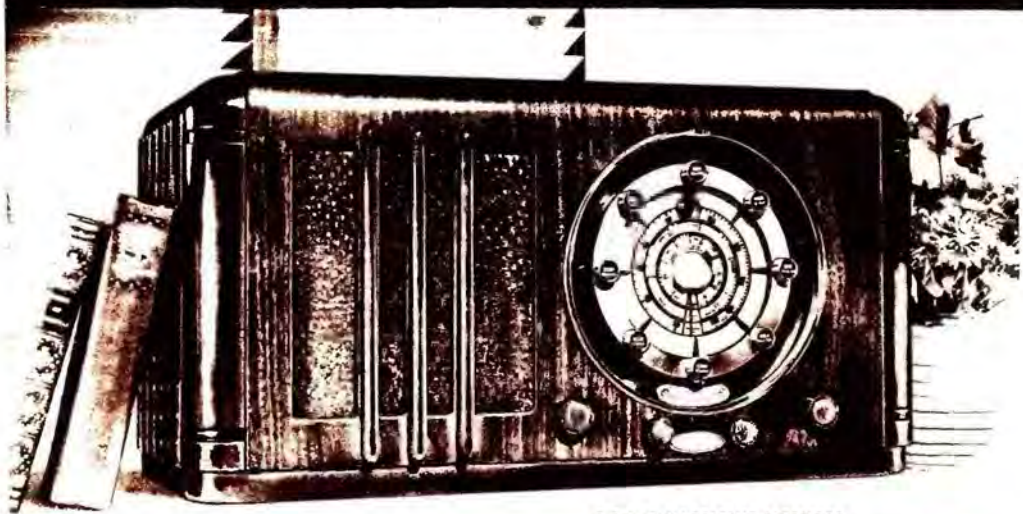


8



9

Knight 8 TUBE ALL-WAVE A. C. SUPERHET



R.C.A. & HAZELTINE LICENSED

The new 1938 Knight All-Wave 8 Tube A.C. Superhet in table model, with Automatic Select-a-Dial, complete with 8 speaker and R.C.A. tubes. For operation on 110 volts, 60 cycles A.C. Sbg. wt. 32 lbs. Code: CLEFT. #10565 Retail Value, \$72.50. NET PRICE EACH, \$32.75. YOUR PRICE, **\$33²⁵**—
LOTS OF 3, EACH (For efficient aerial, see page 99.)

When we say that this new 1938 Knight All-Wave 8 Tube A.C. Superhet is the greatest radio "buy" to come your way in years, we mean just that. Here is an unbeatable performer—priced far below its real value! Read every word of our description for proof and then add the outstanding beauty of the table model cabinet to which no illustration can do justice—and the vibrant tonal quality and power which no words can accurately describe—and you'll get the full picture of this outstanding radio.

Automatic Select-a-Dial. The new 1938 Knight 8 tunes your favorite stations automatically, with true ease and precision. The call letters of any ten popular stations can be inserted in the automatic tuning disc buttons. Just place a finger on the name of the station you want to tune—spin the wheel down to the stop point—and there—you're tuned in instantly and perfectly. It's as easy as pointing a finger! Any one can adjust Automatic Tuning in the Knight 8, regardless of location. Call letters of all U.S. stations are included in tab form and any ten favorites you desire to tune automatically may be inserted in a few seconds. The regular manual dial may be used, of course, for additional domestic and foreign stations.

8 TUBE CHASSIS MODEL

The 1938 Knight 8 Tube A.C. Superhet with Automatic Tuning is also available in chassis form. Includes all of the features found in the table, console and armchair models described on this page and on page 13. Includes: 3 Band coverage from 16 to 550 Meters; Automatic Select-a-Dial; Electric Eye; Automatic Volume Control; Tone Control; 7 Watts Output; 12" Dynamic Speaker; Preselector; 3 Gang Condenser; Wave Band Indicator; Doublet Antenna Connection; etc. A 1938 radio chassis in every detail of design and construction. Beautifully built along generous lines. Size: 13" x 9 1/4" x 8". Supplied complete with full 12" Electro-dynamic speaker and R.C.A. tubes. Automatic Select-a-Dial mechanism and escutcheon (8" diameter) are included. For operation from 110 volts, 60 cycles A.C. Sbg. wt. 20 lbs. Code: STAMP.

#10566 Retail Value, \$68.50. NET PRICE EACH, \$32.75. YOUR PRICE, **\$30²⁵**—
LOTS OF 3, EACH.

- Automatic Tuning
- With Tone Control
- Electric Eye
- 3 Full Bands
- Full A.V.C. Action
- Preselector Stage
- Bass Compensation
- 7 Watts Output
- 3 Gang Condenser

World-Wide Range. Tour the World! Travel the air-lanes any time with the 1938 Knight 8 Tube All-Wave A.C. Superhet! Its powerful three band coverage tunes everything on the air from 16 to 550 Meters. The 16-57 Meter band covers thrilling Short Wave foreign programs; the 51-175 Meter band tunes police, amateur, airplane call and ships-at-sea; the 175-550 Meter band brings you powerful standard Broadcast reception from all of America and Canada.

Giant New Dial. In addition to true Automatic Tuning, the 1938 Knight 8 has a regular large 6 1/4-inch full-vision illuminated airplane dial with three easy-to-read tuning ranges. Each band is separately and clearly indicated. Broadcast channels are calibrated in kilocycles; Short Wave bands are in megacycles with popular channels clearly designated. Has a wave-band indicator.

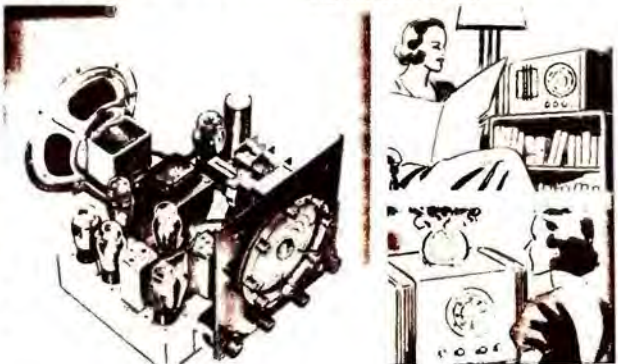
7 Watts Output. The Knight All-Wave 8 provides a giant output of 7 watts for splendid tone performance and reserve power. This power is handled as flawless tone by the large 8-inch Electro-dynamic speaker.

A Superb Circuit. A brilliantly engineered 1938 R.C.A. and Hazeltine licensed circuit is used in the Knight 8. The following tubes are employed: 6AB6 as Osc. Mod.; 6K7G as I. F. Amp.; 6D7G as Det. A.V.C.—1st Audio; 6CS6 as Phone Inverter; 2-6K6G as push-pull Audio Output; 5V4G as Rectifier; 6X5 is Electric Eye.

Other Features: Full Automatic Volume Control—maintains steady volume level on all bands. Variable Tone Control—permits personal selection of bass or treble emphasis. R.F. Preselector—assures greater sensitivity and stronger signal pickup. Electric Eye—the visual way to perfect tuning; you "see" when your program is perfectly tuned. Bass Compensation—assures correct reproduction of both bass and treble frequencies at any volume level. 3 Gang Condenser—assures sharper, more selective tuning. Wave Band Indicator—for more convenient band location. 8-inch Electro-dynamic Speaker—the finest that can be used—powerful and true-toned. Also—doublet antenna connection; rubber-floated chassis and tuning condenser. These fine features combine to produce powerful World-wide reception and rich, life-like tone—the best you can get in radio.

Wonderful Tone. The 1938 Knight 8 reproduces the full range of voice and music with amazing fidelity and brilliant clarity. It offers you unlimited enjoyment on all programs—whether it is a symphony from overseas or a popular domestic program!

Handsome Table Model. Up-to-the-minute in design and styling. Instrument panel and top are of one-piece vertically-grained walnut with beautiful roll-top effect. Sides are gracefully curved with attractive ends in beaded overleaf effect. Size: 22" long, 11 1/4" high, 9 1/4" deep.



with AUTOMATIC SELECT-O-DIAL

KNIGHT 8 TUBE CONSOLE MODEL

The 1938 Knight All-Wave 8 with Automatic Select-o-Dial is available in a luxurious new console cabinet of more than distinguished beauty. The instrument panel and top are of one-piece matched walnut, choice grained with graceful "ruled" effect. The side pilasters are correctly and gracefully curved and are likewise of select walnut, horizontally-stripped. The tops of the pilasters and sides have an attractive beaded trim in the most modern vogue. The entire console is hand-rubbed to a lustrous piano finish. Measures 30 1/2" high, 25 1/4" wide, 13" deep. Here is one of the most successful and beautiful console designs ever built. In beauty of woods used, in superb proportion, in fine finish and in correct acoustical properties, it has few rivals.

The new Knight 8 represents the last word in radio beauty coupled with outstanding performance. It is unbeatable for ease of tuning; the Automatic Select-o-Dial is uncannily accurate and simple to operate. Anyone can tune it perfectly. For world-wide reception, also, the 1938 Knight 8 is without a peer. It offers continuous radio enjoyment of the entire range from 16 to 550 meters. Add the host of other advantageous radio features found in this marvelous 1938 receiver, and you get the utmost in radio pleasure: 7 Watts Output; 12" Electro-dynamic Speaker, Electric Eye; Tone Control; Full A.V.C.; Bass Compensation; 3 Gang Condenser; Presetor; Doublet Connection; Wave Band Indicator, etc. Compare the 1938 Knight 8 feature for feature with any new 1938 receiver and you will find out for yourself that only Knight offers you the utmost in radio value. We're back of this new set 100%—because we know that for outstanding excellence, the Knight 8 is a "duy" that can't be matched. The Knight 8 Tube All-Wave Superhet with Automatic Select-o-Dial is offered in console illustrated at right, complete with 12" speaker and R.C.A. tubes. For 110 volts, 60 cycles A.C. operation. Shpg. wt., 65 lbs.

Code: ROTOR.

BI0567 Retail Value, \$99.50.

NET PRICE EACH, \$47.50.

YOUR PRICE, LOTS OF 5, EACH.....

(For efficient aerial, see page 99.)

\$4495



Smart New CHAIRSIDE MODEL

KNIGHT 8 TUBE ARMCHAIR MODEL

Here is the very latest in radio comfort, beauty and convenience—the 1938 Knight All-Wave 8 Superhet with Automatic Tuning in a modern armchair model. Placed next to easy chair or sofa, this new model makes the ideal radio for sheer comfort, convenience and grace. The dial and controls are set right in the table top to provide the utmost tuning convenience. You can operate the receiver without getting up. The Knight 8 Armchair Model cabinet is beautifully designed and splendidly built. The top is of select walnut as is the attractively designed speaker grille face. Handy shelves of graceful design are provided to hold books, pottery, smoking accessories, etc. The design of this Armchair model also lends it for pleasing use as a commode-piece against a wall. The size is: 23" high, 26" wide, 14 1/2" deep. The Knight 8 Armchair Model has all of the features found in the table, chassis and console models. Includes: Automatic Select-o-Dial for quick, easy and accurate tuning; World-wide Range for enjoyable radio reception on three full bands from 16-550 meters; Electric Eye for even greater tuning ease and accuracy; Tone Control for personal accentuation of tonal emphasis desired; A.V.C. for uniform volume maintenance; 7 Watts Output; Presetor; 3 Gang Condenser; 8" Speaker; Doublet Connection; Bass Compensation, etc. The Knight All-Wave 8 Armchair Model comes complete with R.C.A. tubes and 8-inch speaker. For operation on 110 volts, 60 cycles A.C. Shpg. wt., 52 lbs.

Code: SWIFT.

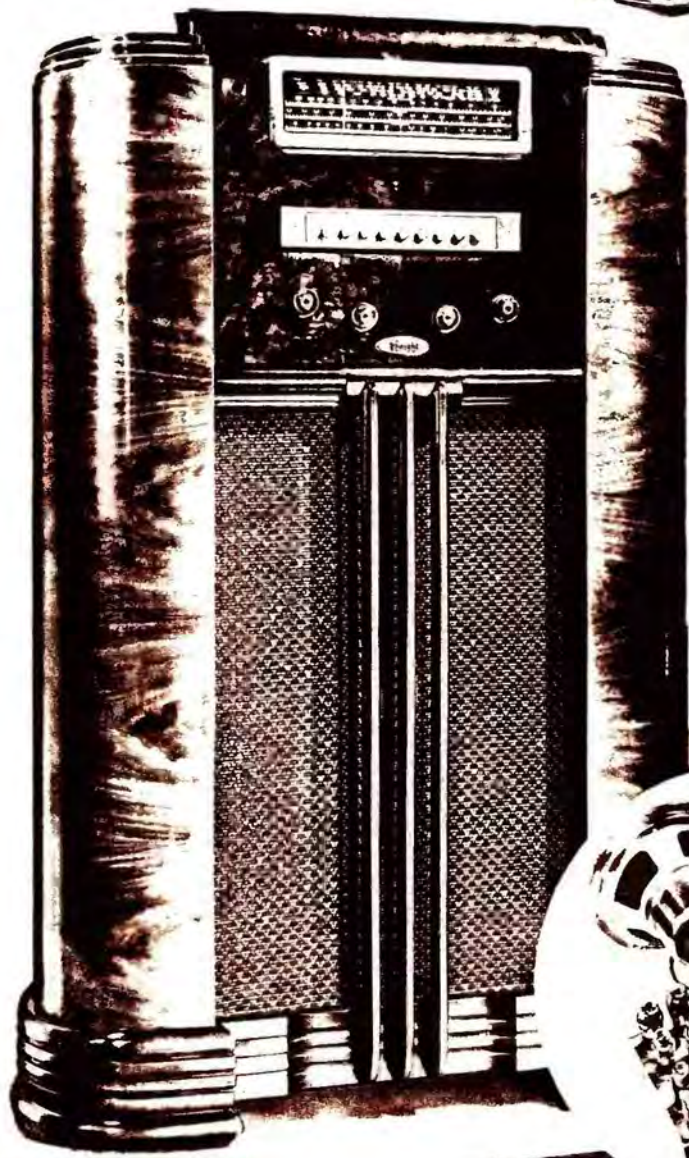
BI0568. Retail Value, \$105.00.

NET PRICE EACH, \$49.95.

\$4750



TRUE *Automatic*
15-BUTTON ELECTRIC TUNING



Knight All-Wave A. C. SUPERHET

ONLY \$95 IN LOTS OF 3

1938's Sensational Value!

- Electric Tuning
- Select-o-matic Dial
- Full A.V.C. Action
- Preselector Stage
- 3 Full Bands
- 7 Watts Output
- 2 I.F. Stages
- Triple Filtering
- 12" Dynamic Speaker
- Aut. Freq. Control
- Variable Tone Control
- 3-Gang Condenser

Here is the brilliant new Knight All-Wave—11—the Radio leader for 1938! Here is Automatic Electric Push-Button Tuning—accurate, unfading, simple! Here is world-wide all-wave reception—powerful, dependable, enjoyable. Here is true tone quality at its very best. Here performance thrill the ear and cabinet beauty to charm the eye. And here is the supreme 1938 Radio Value—America's finest low-priced 11 Tube Radio with every new and worthwhile feature.

WORLD-WIDE RECEPTION. The 1938 Knight 11 tunes everything that's broadcast. Its complete range covers three full bands: 16-51 Meters and 51-175 Meters for powerful and dependable reception of Short Wave foreign, amateur, aviation and police calls; 175-550 Meters for magnificent long-distance reception of all American and Canadian standard Broadcast. Into this splendid receiver is incorporated every new and advantageous radio feature for 1938.

ELECTRIC TUNING. Tunes your favorite stations automatically at the touch of a button with absolute ease and precision. Eight station-selecting buttons are provided which can be set to any eight favorite preselected stations on the broadcast band. Just press the button you want—there's your program—automatically, instantly, electrically! You can tune eight stations in less than eight seconds. A child can do it! And anyone can adjust Electric Automatic Tuning in the Knight 11, regardless of location. Here is the new miracle in radio tuning—the simplest and most efficient automatic tuning device ever developed. There's nothing better in easy, accurate tuning than the Electric Push-Button System used in the 1938 Knight 11!

ELECTRO-MATIC DIAL. In addition to Electric Automatic Tuning, the Knight 11 has a regular full-visibility dial of entirely new design. The dial is a large easy-to-read rectangle (9" long) showing three horizontal scales of equal length, one for each band, making each range easy to read and to tune. The broadcast band has all popular and powerful U. S. station call letters clearly indicated for quick and easy tuning. The short wave bands are calibrated in megacycles. A vertical pointer travels horizontally over the entire length of the scale. The entire dial is beautifully framed by a satin-finish escutcheon.

AUTOMATIC FREQUENCY CONTROL. Found only in the finest 1938 radio receiver, AFC used in the Electric Tuning Circuit shifts the Knight 11 automatically into hairline tuning for absolutely perfect tone and keeps it in precise tune. With Automatic Electric Tuning and AFC, you simply can't tune "out-tone."

A CIRCUIT OF MATCHLESS EFFICIENCY. The very latest tubes are used for maximum performance in the R.C.A. and Hazeltine licensed circuit of the Knight 11. They are employed as follows: 6AG6 as Det.-Osc.; 6K7G as 1st I.F.; 6K7G as 2nd I.F.; 615G as 1st Audio; 615G Phase Inverter; 6J5 as 2nd Det.-A.V.C.; 6J5G as AFC channel discriminator; 6J7G as AFC Control; 2-6FG6 as push-pull Pentode output; 5Z5 as rectifier. Each tube contributes splendidly to develop full power and accurate tonal reproduction. You will note the very real difference in power and tone the minute you hear the 1938 Knight 11 in action—tuning the whole wide world of radio gloriously, bringing you a new concept of radio enjoyment.

ADDITIONAL FEATURES. Other advanced features found in the 1938 Knight 11 Superhet include: Full Automatic Volume Control for uniform volume on all stations; Continuously Variable Tone Control for accurate personal emphasis of tonal frequency to meet individual desire; Double-tuned I.F.s for amazingly increased sensitivity; R.F. Pre-selector for absolute stability; 3-gang tuning condenser of extra-heavy construction for sharp selectivity; push-pull pentode output for full 7 watts undistorted output; giant 12-inch Auditorium Electro-dynamic speaker for high-fidelity tonal reproduction; special triple-filter system for absolute freedom from hum; statically-shielded power transformer of generous design; large chassis with wide safety margins built into quality components.

BEAUTIFUL 1938 CONSOLE. The Knight 11 is presented in a splendid new cabinet creation with top, front and sides of genuine walnut. Top and instrument panel are of a single piece of beautifully figured but walnut with rolled-top effect. Sides are gracefully curved and made of choice rotary-cut walnut with matched graining. Recessed grille is covered with gold cloth frosted by three vertical walnut posts. Size: 42" high, 47" wide, 13" deep.

CONSOLE MODEL COMPLETE. The Knight 11 All-Wave A.C. Superhet is offered complete in console as illustrated, with 12" dynamic speaker and R.C.A. tubes. For 110 volts, 60 cycles A.C. operation. America's lowest-priced Electric Tuning radio. Shipping weight, 73 lbs.

NET PRICE, \$105.39. Retail Value, \$122.50.

NET PRICE EACH, \$59.95

YOUR PRICE, IN LOTS OF 3, EACH.....\$54.95

(For efficient serial, see listing on page 99.)

11 TUBE PHONO COMBINATION

For music-lovers who want the best in tonal performance, the Knight 11 is also offered in a new phono-radio combination. This distinguished instrument, equipped with Packard automatic record changer, offers the whole world of finest musical entertainment. It employs the de luxe chassis described above to provide powerful World-Wide radio reception, rich, full-bodied tone and superb all-around performance. Perfect reproduction of recordings is assured by the high-grade pick-up, silent powerful phono-motor and automatic record changer. Records are played through the radio amplifying circuit with high-fidelity tone. Plays eight 10" records or seven 12" records automatically. Full 7 watts output provides perfect amplification of the most delicate nuances and overtones through the Auditorium 12 inch dynamic speaker. The Knight 11 Phono-Combination includes all the features described above—Electric Push-Button Tuning, Tone Control, A.V.C., 3 Band Coverage, A.F.C., Triple Filtering, Preselector Stage, 3 Gang Condenser, etc. A truly musical instrument in every respect—both on radio and phonograph. For operation from 110 volts, 60 cycles A.C. De luxe cabinet measures: 42" x 18" x 20", has hinged lid. Shipping weight, 95 lbs. Code: WALTZ.

NET PRICE, \$107.50

NET PRICE EACH, \$225.00.

NET PRICE EACH, \$107.50

BROADCAST STUDIO TONE

Perfect tuning—perfect broadcast studio tone quality is a constant feature of the performance of the new 1938 Knight 11. Every latest development known to radio engineering is incorporated to assure thrilling, enjoyable reception. Here is the ultimate in luxurious radio entertainment.



PUSH-BUTTON TUNING

An exclusive 1938 feature! Just touch a button and any one of your eight favorite stations is tuned in electrically—instantly, unerringly, automatically. Absolutely practical, thoroughly tested—fool-proof! And the regular new Select-o-matic Dial, too, is amazingly efficient and practical, the finest yet developed.



12 IN. DYNAMIC SPEAKER

Rich, enjoyable high-fidelity tone is consistently reproduced by the giant new 12-inch Electro-dynamic speaker used in the 1938 Knight 11. More sensitive, more powerful, more faithful, this speaker is responsible for the full rich tone-depth evident in every program tuned by this fine set.



WIDE-RANGE RESPONSE

Faithful tonal reproduction is constantly evident in the performance of the 1938 Knight 11. Bass frequencies as well as treble are retained with full depth and vibrant reality. Triple-filtering and Variable Tone Control further enhance and enrich the tone of the Knight 11.



TUNES THE WORLD

The 1938 Knight 11 is one of the most powerful and far-reaching Superhet radios ever developed. Tuning coverage encompasses three full continuous bands from 16 to 550 meters assuring always dependable Short-Wave from all over the world and amazingly powerful Broadcast band reception.



KNIGHT 11 TUBE CHASSIS

The Knight 11 Tube All-Wave Superhet with Electric Tuning is also available in de luxe chassis form as illustrated on page 14. Includes features as described: 3 Band World-Wide Range; Electric Tuning; Select-o-matic Dial; A.F.C.; A.V.C.; Tone Control; 12" Speaker; 2 stages I.F.; Preselector; 3-gang condensers; 7 watts output, etc. Full-sized; measures 19" wide, 11" deep, 11 1/2" high. Complete with Automatic Tuning and dial mechanism, 12" speaker and R.C.A. tubes. Cost 110 volts, 60 cycles A.C. Suggested price, \$42.45. Code: SOLAR.

NET PRICE EACH, \$44.50.

NET PRICE EACH, \$42.45

YOUR PRICE, IN LOTS OF 3, EACH.....\$27.95

\$54.95

\$42.45



1936 Armchair Models

Knight 6 TUBE 3 BAND A.C. SUPERHET

R.C.A. AND HAZELTINE LICENSED



Here is a charming new 1938 chair-side radio model at an amazingly low price. This new Knight A. C. 6 offers the utmost convenience in radio tuning coupled with enjoyable radio entertainment. It can be placed next to chair or sofa and tuned in comfort and ease. Has these outstanding features:

- 2 Full Bands. Tunes 47 to 130 Meters for the most popular Short Wave programs; includes the popular 49 meter foreign band. Covers 174 to 350 Meters for all American and Canadian standard Broadcast. You actually get the advantage of three-band reception on these wave bands.
- Electric Eye. The accurate cathode-ray Tuning Eye is used in the Knight 6. Assures precise visual tuning when the shaded portion of the Eye is narrowest; you are tuned in perfectly. Avoids noisy and inaccurate tuning.
- 4 1/2 inch Dial. Latest edge-lighted type. Easy to tune. Shows two easy-to-read scales—one calibrated in kilocycles for Broadcast, the other marked in megacycles for Short Wave. Popular Short Wave channels are clearly indicated.
- 6" Dynamic Speaker. Full-sized; noted for faithful response and fine volume-handling capacity. Renders both voice and music with astonishing fidelity. Handles the large 3 watts output of the circuit with enjoyable volume and depth.
- Tone Control. Continuously variable Tone Control is used in the Knight 6. Permits emphasis of bass or treble response to suit personal taste. Adds considerably to the outstanding tonal beauty of Knight 6 performance. A big extra-value feature found generally only in much higher priced sets.
- Latest Circuit. The R.C.A. and Hazeltine licensed Superhet circuit of the Knight 6 uses the following tubes: 6A7, 6D6, 75, 41, 80, 6G5. Other features include: Automatic Volume Control; 6 tuned circuits; rubber-foated tuning condenser, etc.
- Beautiful Chair-side Cabinet. The Knight 6 Armchair Model cabinet is built along pleasing lines. Has instrument and speaker panel of one-piece vertically-grained walnut. Size: 23" high, 18" deep, 11 1/4" wide.
- Armchair Model Complete. The Knight 6 Armchair Model is offered complete as illustrated with 6-inch dynamic speaker and R.C.A. tubes.

For 110 volts, 60 cycles A. C. Ship. wt. 32 lbs. Code: ROBIN.
\$27³⁵
 NET PRICE EACH, \$28.78.
 NET PRICE, LOTS OF 3, EACH.

(See page 6 for more detailed description of the 1938 Knight 6.)

Knight 7 TUBE 3 BAND A.C. SUPERHET

WITH NEW AUTOMATIC SELECT-O-DIAL



This 1938 Knight 7 Tube All-Wave A.C. Superhet is beautifully presented in one of the most graceful chair-side models made today. Brilliantly designed for use wherever in the company by the side of chair or sofa—as well piece, etc. Practical, but well as beautiful. The cabinet has a matched walnut top and a charming grille of walnut. Convenient shelves are built in to accommodate books or decorative pieces. The armchair model measures 23" high, 14 1/4" deep, 24" wide. One of the finest radio models of the year. Just check these features:

- World-Wide Range. Tunes 16 to 52 Meters for World-wide Short Wave reception; 52 to 174 Meters for Short Wave police, amateur, ship and airplane signals; and 174 to 350 Meters for all American and Canadian standard Broadcast reception. Tunes everything that's broadcast.
- Automatic Tuning. The 1938 Knight 7 tunes ten of your favorite stations automatically. The Select-O-Dial provides a button for each favorite station. Just put your finger on the button you want, swing the tuning wheel down to the stop point—and there's your station, tuned in instantly, perfectly! It's as easy as pointing.
- Giant Dial. In addition to true Automatic Tuning, the Knight 7 has a regular large full-vision illuminated dial. Each band is separately and clearly calibrated with all popular channels indicated. The built-in Televé for visual tuning is an added feature.
- A Superb Circuit! A brilliantly-engineered R.C.A. and Hazeltine licensed Superhet circuit is used in the Knight 7. Latest tubes are used: 6A7 as Osc. Mod.; 6D6 as I.F. Amp.; 76 as Det.-A.V.C.; 75 as 1st Audio; 41 as Audio Output; 80 as Rectifier; 6G5 is Electric Eye.
- Added Features. The Knight 7 incorporates these additional outstanding features: Electric Eye for most accurate tuning; Tone Control for bass or treble emphasis as desired; A.V.C. for maintenance of uniform volume on all programs; 8-inch Electro-dynamic speaker for flawless tonal reproduction; 3 watts undistorted output; doublet antenna connection; rubber-foated tuning condenser; 6 tuned circuits on each band, etc.
- Armchair Model Complete. The Knight 7 Armchair Model is offered complete as described with 8-inch dynamic speaker and R.C.A. tubes.

For 110 volts, 60 cycles A. C. Ship. wt. 52 lbs. Code: BRAND.
\$39⁵⁰
 NET PRICE EACH, \$41.75.
 NET PRICE, LOTS OF 3, EACH.

(See inside back cover for more detailed description.)

Knight 9 TUBE 3 BAND A.C. SUPERHET

R.C.A. AND HAZELTINE LICENSED



Here is a de luxe 1938 Knight 9 Tube All-Wave A.C. Armchair Model. Luxuriously built of choice matched walnut woods; designed for the utmost convenience and tuning luxury. The de luxe chair-side radio model offered for the first time at so low a price. The Knight 9 is housed in a beautifully built cabinet. The instrument panel and grille are of one-piece vertically striped walnut with roll-effect. The sides are of matched walnut wood, luxuriously grained and finished. Size: 25 1/2" high, 22 3/4" long, 14 1/4" wide. Here is the utmost in radio beauty coupled with outstanding radio performance and the following features:

- World-Wide Range. Tunes 17 to 52 Meters and 52 to 174 Meters for all Short Wave foreign, police, amateur and aviation signals; 172 to 355 Meters for standard Broadcast of all American and Canadian stations.
- Giant 8" x 8" Dial. A new 1938 feature. Each band is generously spread out for the utmost ease in tuning. An Electric Eye is included with the dial to show you visually when you are tuned in perfectly.
- 8 Watts Output. Developed by a powerful push-pull output stage using two of the latest 6D6 tubes. This wonderful output is faithfully reproduced through the finest 10-inch Electro-dynamic speaker which is perfectly matched to the receiver. The tonal performance of the Knight 9 is thrillingly faithful and enjoyable on all programs.
- A Remarkable Circuit. The following latest type tubes are used in the circuit of the 1938 Knight 9: 1—6A7, 2—6K7, 1—6Q7, 1—6E3, 2—6E4, 1—5Y3, 1—6G5. Outstanding additional features are: Bass Compensated Volume Control for full-range reproduction of both bass and treble at any volume level; full A.V.C. for uniform volume; Tone Control for any tone accentuation; modified new Ind-Coil System for stability; R.F. preamplifier; 3 gang rubber-cushioned condenser, etc.
- Armchair Model Complete. The Knight 9 All-Wave A.C. Superhet is offered in the Armchair Model illustrated, complete with 10-inch dynamic speaker and Raytheon tubes. For 110 volts, 60 cycles A. C. Ship. wt. 65 lbs. Code: GLOBE.
\$43²⁵
 NET PRICE EACH, \$45.50.
 NET PRICE, LOTS OF 3, EACH.

(See page 100 for more detailed description of the 1938 Knight 9.)



RADIOTRON TUBES

R.C.A.-Radiotron Tubes are always the standard for dependable performance and superb operating efficiency. They enjoy a tremendous consumer acceptance and are the most widely demanded tubes sold today. They represent a good, steady source of profit for the dealer who stocks them. All R.C.A.-Radiotron tubes are sold in attractive factory-sealed cartons to assure your trade of brand-new

perfect tubes in original packages, tested for quality, just as they left the factory. This method of packing builds good-will and sales. R.C.A.-Radiotron Tubes represent full value. They give longer life, heat quicker, and have better tone quality together with unusual uniformity and stability of operation. WE CARRY THE COMPLETE LINE OF R.C.A. TUBES IN STOCK AT ALL TIMES.

EXTRA QUANTITY DISCOUNTS

You can earn bigger profits by buying RCA tubes in quantities. We give you a special 50% discount from the list prices shown below when you order 25 or more RCA-Radiotron tubes on one order. For example, if the list price of your tube order amounts to \$10, your net cost will be 50% less, or \$5. RCA tubes are always in demand. Round out your stock and increase your profit on every tube sale. You can easily select 25 fast-moving tubes from our listing below for bigger discounts and profits.

STANDARD GLASS TYPE TUBES

Type	No.	List	NET
00A	8108	2.25	1.22
01A	8102	.75	.41
1A4	8169	1.75	.95
1A6	8161	1.75	.95
1B4	8162	2.25	1.22
1B5	8163	1.25	.68
1C6	8164	1.75	.95
1F4	8165	1.50	.81
1F6	8166	2.25	1.22
1V	8183	1.10	.59
2A3	8167	2.50	1.35
2A5	8168	1.20	.65
2A6	8169	1.20	.65
2A7	8170	1.50	.81
2B7	8171	1.60	.86
5Z3	8172	1.10	.59
6A4/LA	8174	1.50	.81
6A6	8175	1.60	.86
6A7	8176	1.40	.76
6B7	8178	1.50	.81
6C6	8179	1.20	.65
6D6	8180	1.20	.65
6E5	8181	1.50	.81
6F7	8183	1.75	.95
6G5	8184	1.50	.81
6N5	8191	1.75	.95

10	8184	2.75	1.49
12A7	8186	2.25	1.22
12Z8	8197	1.35	.73
15	8186	2.25	1.22
19	8189	1.25	.68
20	8110	2.25	1.22
22	8111	1.75	.95
24A	8112	1.00	.54
25Z5	8188	1.25	.68
26	8113	.70	.38
27	8114	.80	.43
30	8115	1.00	.54
31	8116	.90	.49
32	8117	1.75	.95
33	8118	1.35	.73
34	8119	1.75	.95
35	8120	1.10	.59

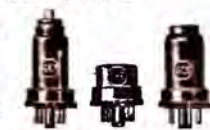
Type	No.	List	NET
36	8121	1.10	.59
37	8122	.90	.49
38	8123	1.25	.68
39/44	8124	1.25	.68
40	8125	1.00	.54
41	8126	1.10	.59
42	8127	1.20	.65
43	8128	1.40	.76
45	8130	.90	.49
46	8131	1.50	.81
47	8132	1.50	.81
48	8133	1.50	1.89
49	8134	1.25	.68
50	8135	2.50	1.35
53	8138	1.75	.95
55	8139	1.50	.81
56	8140	.80	.43
57	8141	1.25	.68
58	8142	1.25	.68
59	8143	2.00	1.08
71A	8144	.90	.49
75	8145	1.10	.59
76	8146	.80	.43
77	8147	1.35	.73
78	8148	1.20	.65
79	8149	1.50	.81

80	8150	.70	.38
81	8151	2.25	1.22
82	8152	1.50	.81
83	8153	1.60	.86
83V	8154	2.25	1.22
84/GZ4	8155	1.60	.86
85	8156	1.20	.65
89	8157	1.50	.81
V99	8158	1.50	.81
X99	8159	1.50	.81
112A	8197	.90	.49
WD11	8196	2.25	1.22
WX12	8196	2.25	1.22
874	8193	4.00	2.75
876	8194	6.50	4.50
886	8195	8.00	6.00

ALL-METAL TYPE TUBES

Designed by General Electric; developed and manufactured by R.C.A.-Radiotron. The new metal tubes feature unusual sturdiness, self-shielding, quiet operation, better short wave results, new octal base, self-aligning plug and key, etc. The new metal tubes are not directly interchangeable with conventional glass tube types. We carry all metal type R.C.A. tubes in stock constantly.

Type	No.	List	NET
5T4	8261	2.50	1.35
5W4	8262	1.00	.54
5Z4	8263	2.00	1.08
6A8	8264	1.50	.81
6B8	8265	1.75	.95
6C5	8266	1.25	.68
6F5	8267	1.25	.68
6F6	8268	1.35	.73
6H6	8269	1.25	.68
6J7	8270	1.50	.81



Type	No.	List	NET
6K7	8271	1.35	.73
6L6	8272	2.25	1.22
6L7	8273	1.75	.95
6N7	8274	1.75	.95
6Q7	8275	1.35	.73
6R7	8276	1.35	.73
6X5	8279	1.50	.81
25A6	8279	1.50	.81
25L6	8280	2.25	1.22
25Z6	8281	1.50	.81

8388. METAL TUBE CHARACTERISTICS BOOKLET. Contains valuable information, including pin arrangements, covering new metal tubes. NET..... 10c

OCTAL BASE GLASS TUBES

Glass types with same characteristics as new metal tubes.

Type	No.	List	NET	Type	No.	List	NET
1C7G	8261	2.25	1.22	6F6G	8229	1.35	.73
1D7G	8262	2.25	1.22	6H6G	8238	1.25	.68
1D7G	8263	1.75	.95	6J5G	8231	1.35	.73
1E5G	8264	2.25	1.22	6J7G	8232	1.50	.81
1E7G	8265	2.75	1.49	6K5G	8233	1.35	.73
1F5G	8266	2.25	1.22	6K6G	8234	1.35	.73
1F7G	8267	2.25	1.22	6K7G	8235	1.35	.73
1H4G	8269	1.00	.54	6L5G	8236	2.25	1.22
1H6G	8210	1.75	.95	6L6G	8237	2.50	1.35
1J6G	8212	1.35	.73	6L7G	8238	1.75	.95
5U4G	8213	1.50	.81	6N7G	8241	1.75	.95
5V4G	8214	2.35	1.27	6Q7G	8243	1.35	.73
5X4G	8215	1.50	.81	6R7G	8244	1.35	.73
5Y3G	8217	1.00	.54	6S7G	8245	2.25	1.22
5Y4G	8218	1.00	.54	6T7G	8246	2.25	1.22
6A8G	8221	1.50	.81	6V6G	8248	1.75	.95
6B8G	8224	1.75	.95	6X5G	8251	1.60	.86
6C5G	8225	1.25	.68	25A6G	8251	1.50	.81
6D8G	8227	2.25	1.22	25B6G	8257	1.75	.95
6F5G	8228	1.25	.68	25L6G	8258	2.25	1.22
				25Z6G	8259	1.50	.81

FREE TUBE SALES AIDS

8391. DUMMY CARTRONS. 25 R.C.A. dummy tube cartons free with tube order.
8392. DECALCOMANIA. 3 color window sign free with order for R.C.A. tubes.
8393. PRICE CARDS. Shows list prices for all R.C.A. tubes. Free with tube order.
8394. O. N. TAGS. For labeled repair jobs; 10 free with order for R.C.A. tubes.

R. C. A. TUBE MANUAL

8395. Complete technical specs for all R.C.A. receiving tube types. FREE with order for 25 R.C.A. tubes or, if bought separately...28c

R. C. A. PINDEX

8396. Pocket slide rule which gives essential information about tubes, pins, etc. FREE with order for 25 R.C.A. tubes, or sold for...28c

TUBE TEST STICKERS

A roll of 2000 perforated padded labels, 1 1/4" x 1 1/2", imprinted with your name, address and city; has space to mark date and tube condition. Print your name plainly on order.
8390. NET...\$1.00



RAYTHEON RADIO TUBES

RAYTHEON shows you the way to bigger tube profits. Handle this money-making line which offers you amazingly **BIG DISCOUNTS** and a powerful sales appeal. RAYTHEON tubes are noted for quality and have an outstanding reputation for long life, silent operation and brilliant total production. For better results and for sure customer satisfaction and good-will, use RAYTHEON tubes for replacements in all radio sets.

Backed by extensive advertising, RAYTHEON Tubes enjoy a tremendous consumer demand. In addition, they come packed in attractive factory-sealed cartons to protect your customers and to assure you of fresh new stock. There is a RAYTHEON tube for every set requirement. Stock this popular sales- and profit-building tube line. **WE CARRY THE COMPLETE LINE OF RAYTHEON TUBES IN STOCK AT ALL TIMES. DEPEND ON ALLIED!**

SPECIAL DISCOUNTS

Buy Raytheon tubes in quantities for added profits. In lots of 25 or more, we give you a special discount of 50 and 5% from the list prices shown. For example, if the list price of your tube order amounts to \$28.00, your net price at this special discount is \$26.50. Build your order to 25 or more tubes and earn extra profits!

LOW PRICES • LIBERAL DISCOUNTS

ALL STANDARD GLASS TYPE TUBES

Type	No. List	NET	Type	No. List	NET	Type	No. List	NET	Type	No. List	NET				
00A	B400	2.25	1.18	6E5	B481	1.50	.78	34	B419	1.75	.92	71A	B444	.90	.47
01A	B401	.75	.39	6E6	B482	2.00	1.03	35	B420	1.18	.57	75	B445	1.10	.57
1A4	B409	1.75	.92	6F7	B483	1.75	.92	36	B421	1.10	.57	76	B446	.90	.41
1A6	B461	1.75	.92	6G5	B484	1.50	.78	37	B422	.90	.47	77	B447	1.15	.70
1B4	B462	2.25	1.18	6N5	B491	1.75	.92	38	B423	1.25	.65	78	B448	1.20	.62
1B5	B463	1.25	.65	6T5	B496	1.50	.78	39	B424	1.25	.65	79	B449	1.50	.78
1C6	B464	1.75	.92	6U5	B497	1.50	.78					80	B450	.70	.36
1F4	B465	1.50	.78	6Z4	B455	1.60	.83					81	B451	2.25	1.18
1F6	B466	2.25	1.18					40	B425	1.00	.52	82	B452	1.50	.78
1V	B403	1.10	.57					41	B426	1.18	.57	83	B453	1.60	.83
				12A5	B485	2.25	1.18	42	B427	1.20	.62	83V	B454	2.25	1.18
2A3	B467	2.50	1.30	12A7	B486	2.25	1.18	43	B428	1.40	.73	84	B455	1.50	.83
2A5	B468	1.20	.62	12Z3	B487	1.35	.70	44	B429	1.25	.65	85	B456	1.20	.62
2A6	B469	1.20	.62	25Z5	B488	1.25	.65	45	B430	.90	.47	89	B457	1.50	.78
2A7	B470	1.50	.78	10	B404	2.75	1.42	46	B431	1.50	.78				
2B7	B471	1.60	.83	12A	B407	.90	.47	47	B432	1.50	.78				
2E5	B490	1.50	.78	15	B408	2.25	1.18	48	B433	3.50	1.81				
				19	B409	1.25	.65	49	B434	1.25	.65				
5Z3	B472	1.10	.57					50	B435	2.50	1.30	V99	B458	1.50	.78
6A3	B473	2.00	1.03	20	B410	2.25	1.18	51	B428	1.10	.57	X99	B459	1.50	.78
6A4	B474	1.50	.78	22	B411	1.75	.91	52	B437	2.00	1.03	182B	B624	2.00	1.03
6A5	B492	1.75	.92	24A	B412	1.00	.52	53	B438	1.75	.92	183	B625	2.00	1.03
6A6	B475	1.40	.83	26	B413	.70	.36	55	B439	1.50	.78	485	B626	2.00	1.03
6A7	B476	1.40	.73	27	B414	.80	.41	56	B440	.80	.41	950	B498	2.25	1.18
6B5	B477	2.25	1.18	30	B415	1.00	.52	57	B441	1.25	.65	951	B499	2.25	1.18
6B7	B478	1.50	.78	31	B416	.90	.47	58	B442	1.25	.65	WD11	B406	2.25	1.18
6C6	B479	1.20	.62	32	B417	1.75	.92	59	B443	2.00	1.03	WX12	B406	2.25	1.18
6D6	B480	1.20	.62	33	B418	1.35	.70					BA	B629	7.50	4.20
												BH	B621	4.65	2.65
												BR	B622	2.75	1.42
												LA	B474	1.50	.78

MERCHANDISING AIDS TO INCREASE YOUR TUBE PROFITS

Raytheon offers you, through ALLIED, some of the finest merchandising aids ever produced to promote the sale of tubes. These consist of attractive, new attention-arresting window displays, dummy cartons for display purposes, booklets containing valuable information, quick reference price cards showing interchangeable tube types, repair tickets, etc. Get these sales-stimulating helps, and put them to work selling tubes for you. They were all designed for just that purpose.

RAYTHEON HELPS YOU SELL

With your next order for Raytheon tubes, ask to be placed on the Raytheon mailing list. This will bring you timely sales aids, window displays, etc. It will pay you to "push" the fast-selling profit-building Raytheon line.

With your next tube order, ask for the free copy of the complete Raytheon Sales Aids Catalog. Shows you what materials are available and how to secure them. Ask for Raytheon Sales Aids Catalog under number B699.



A LIVE DISPLAY

A good-looking window display which identifies you as a Raytheon dealer. Enables you to get your share of profits from Raytheon's tremendous national advertising. Shows Serviceman testing tubes. Has sign reading: "Dependable Service Work." Size, 2 feet wide by 2 1/2 feet high. B696. FREE. With tube order.

NEW WINDOW DISPLAYS

An unusually attractive blackboard window display measuring a full 2 feet wide by 2 1/2 feet high. Has ample space for your "special" or "message." A great "attention-getter."

FREE. B695. With order for Raytheon tubes.



RAYTHEON TUBE TALKS

This very valuable profit-building book was carefully prepared by the Raytheon sales engineers to stimulate YOUR tube sales. Contains 46 pages which tell you just how to merchandise tubes, where to look for business and how to get it. The book is clearly printed on high-grade paper and bound in a stiff fiber cover with aluminum spiral back. Also contains the tube combination for practically every radio receiver. Really will help you sell Raytheon tubes because it reflects the best selling experience of thousands of radio dealers. A helpful book that will pay for itself many times over. B697. NET.....50c



DEALER PRICE CARDS

Latest handy reference dealer price list card for all Raytheon tubes. Shows interchangeable tube types. Indicates popular replacement types. Green. Free with order for Raytheon tubes. B698. FREE. Request on next order.



METAL TYPE TUBES

RAYTHEON offers a complete line of the new all-metal tubes. Made entirely of metal; self-shielded and sturdy. With octal base and special stud which makes insertion of tube into socket very easy. Not directly interchangeable with conventional glass tube types. We stock all types.

Type	No.	List	NET	Type	No.	List	NET
024	8560	1.50	.78	6K7	8571	1.35	.70
5T4	8561	2.50	1.30	6L6	8572	2.25	1.18
5W4	8562	1.00	.52	6L7	8573	1.75	.92
5Z4	8563	2.00	1.03	6N7	8574	1.75	.92
				6O7	8575	1.35	.70
6A8	8564	1.50	.78	6R7	8576	1.35	.70
6B8	8565	1.75	.92	6V6	8577	1.75	.92
6C5	8566	1.25	.65	6X5	8578	1.50	.78
6F5	8567	1.25	.65	25A6	8579	1.50	.78
6F6	8568	1.35	.70	25L6	8580	2.25	1.18
6H6	8569	1.25	.65	25Z6	8581	1.50	.78
6J7	8570	1.50	.78				

SPECIAL MAJESTIC SHIELDED TUBES

Type	No.	List	NET	Type	No.	List	NET
24S	8590	1.50	.78	2A7S	8602	2.30	1.20
27S	8591	1.10	.57	2B7S	8603	2.30	1.20
35S	8592	1.50	.78	6A7S	8604	2.30	1.20
51S	8593	1.50	.78	6B7S	8605	2.30	1.20
55S	8593	1.75	.92	6C7	8606	2.00	1.03
56AS	8594	1.35	.70	6D7	8607	2.00	1.03
56S	8595	1.35	.70	6E7	8608	2.00	1.03
57S	8596	1.75	.92	6F7S	8609	2.00	1.03
57AS	8597	1.75	.92	6Y5	8610	2.00	1.03
58S	8598	1.75	.92	2S-4S	8611	2.75	1.42
58AS	8599	1.75	.92	2Z2G4	8612	2.00	1.03
75S	8600	1.75	.92	6Z5	8613	2.00	1.03
85AS	8601	1.75	.92				

NEW RAYTHEON TUBE STICKERS

The new Raytheon tube stickers for glass tubes, have spaces for noting "Date Sold," "Date Tested," condition of tube, "Satisfactory," or "Unsatisfactory"—and space for your name. A pad of 100 is given free with your order for Raytheon tubes. (Available in pads of 2000 with your name imprinted at \$1.00 per pad. **FREE.** Pad of 100 with tube order. **FREE.** B659.

METAL TUBE STICKERS

Attractive Raytheon stickers exactly the same as above but for metal tubes. A roll of 100 comes to you free with your order for Raytheon tubes. (Pads of 2000 tube stickers with your name imprinted are available at \$1.00 per pad. Print your name plainly on order.) **FREE.** B660. Pad of 100 with tube order.

REPAIR TICKETS

Consists of combination repair ticket and receipt. Contains space for name, address, phone number, make and model of receiver. Perforated; one end is attached to set or chassis taken in for repair, and detachable end is customer receipt. **B691. FREE. 50 Repair Tickets, with tube order.**

GUARANTEE BLANKS

Consists of a "90 Day Radio Repair and Service Guarantee." Has space for complete description of services performed: condition of tubes, transformers, condensers, connections, wiring, etc.; and charges for parts and labor. A real business-like service card that instills confidence. **B692. FREE. 50 Guarantee Blanks, with tube order.**

TECHNICAL DATA 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. **B693. FREE.**

DUMMY CARTONS

For display purposes only. Exact replicas of the standard Raytheon tube cartons. These attractive cartons can be used for an arresting, sales stimulating display. We offer 12 dummy cartons free with your order for Raytheon tubes. **B694. FREE.**



Ken-Rad



RADIO TUBES

THE DEPENDABLE TUBE LINE

In the radio tube field, the name KEN-RAD is synonymous with dependable long life, unusual sturdiness, brilliant tone quality and full value. These uniformly dependable tubes are offered in complete selection of glass types, metal types and metal-glass types — to meet every radio tube need.

EXTRA QUANTITY DISCOUNTS

In lots of 25 or more, we offer Ken Rad tubes at a special discount of 5% and 20% from the list prices shown. For example, if the list price of your tube order amounts to \$20, your net price will be \$16.00. Order your Ken-Rad tubes in lots of 25 or more and earn bigger profits.

Type	No.	List	NET	Type	No.	List	NET
1A4	8780	\$1.75	\$0.92	12A	8707	2.25	1.18
1A6	8761	1.75	.92	12B	8708	2.25	1.18
18A	8762	2.25	1.18	19	8709	1.25	.65
18B/25B	8763	1.25	.65	20	8710	2.25	1.18
106	8764	1.75	.92	21	8711	1.25	.65
1F4	8765	1.50	.78	24A	8712	1.00	.52
1F6	8766	2.25	1.30	26	8713	1.00	.52
2A3	8767	1.50	.82	27	8714	.80	.41
2A5	8768	1.25	.62	30	8715	1.00	.52
2A6	8769	1.50	.82	31	8716	.90	.49
2A7	8770	1.50	.82	32	8717	1.75	.92
283	8771	1.00	.53	33	8718	1.35	.70
823	8772	1.00	.57	34	8719	1.75	.92
8A3	8773	2.00	1.03	35/31	8720	1.10	.57
64A	8774	1.50	.78	36	8721	1.10	.57
64B	8775	1.50	.78	37	8722	1.10	.57
6A7	8776	1.40	.73	38	8723	1.25	.65
8B5	8777	2.25	1.18	39/44	8724	1.25	.65
8B7	8778	1.50	.78	41	8725	1.10	.57
6C6	8779	1.25	.62	42	8726	1.25	.65
6C7	8780	2.00	1.03	43	8727	1.40	.73
6D6	8781	1.25	.62	45	8728	1.00	.52
6D7	8782	1.50	1.03	46	8729	1.00	.52
6E5	8783	1.00	.53	47	8730	.80	.47
6E6	8784	2.00	1.03	48	8731	1.50	.78
6E7	8785	1.50	.78	49	8732	1.50	.78
6E8	8786	2.00	1.03	50	8733	2.50	1.30
6F7	8787	1.75	.92	51	8734	1.75	.92
6G5	8788	1.75	.92	52	8735	1.50	.78
6N5	8789	1.75	.92	53	8736	1.75	.92
6V5	8790	2.00	1.03	54	8737	1.50	.78
6Z5	8791	2.00	1.03	55	8738	1.25	.65
12A5	8788	2.25	1.18	56	8739	1.25	.65
12A7	8789	1.25	.62	57	8740	1.50	.78
12Z3	8787	1.35	.70	71A	8741	1.50	.78
2323	8789	1.25	.65	72	8742	1.10	.57
IV	8790	1.10	.57	73	8743	1.50	.78
91A	8793	1.25	.62	74	8744	1.10	.57
91B	8794	1.25	.62	75	8745	1.10	.57
91C	8795	1.25	.62	76	8746	1.10	.57
91D	8796	1.25	.62	77	8747	1.10	.57
91E	8797	1.25	.62	78	8748	1.20	.62
91F	8798	1.25	.62	79	8749	1.00	.52
91G	8799	1.25	.62				
91H	8800	1.25	.62				

All Ken-Rad tubes are in factory-sealed cartons for your customers' protection. We carry the complete line of Ken-Rad tubes in stock at all times. Order in quantities for extra profits. Take advantage of our quantity discount.

OTICAL GLASS TYPES

Type	No.	List	NET	Type	No.	List	NET
824G	8800	\$1.50	.78	50	8750	.70	.36
1C7G	8801	2.25	1.18	51	8751	2.25	1.18
1D5G	8802	2.25	1.18	52	8752	1.50	.78
1D7G	8803	1.75	.92	53	8753	1.00	.53
1E6G	8804	2.25	1.18	83V	8754	2.25	1.18
1E7G	8805	2.25	1.18	84	8755	1.50	.78
1F5G	8806	2.25	1.18	85	8756	1.25	.65
1F7G	8807	2.25	1.18	88	8757	1.50	.78
1S5G	8808	2.25	1.18	990	8758	1.50	.78
1H4G	8809	1.00	.52	X98	8759	1.00	.52
1H6G	8810	1.75	.92	V99	8798	2.25	1.18
1J5G	8811	2.25	1.18				
1J6G	8812	1.35	.70				
5U4G	8813	1.50	.78				
5V4G	8814	2.25	1.18				
5X4G	8815	1.50	.78				
1Y3G	8817	1.00	.52				
5Y4G	8818	1.00	.52				
6A6G	8819	2.50	1.25				
6B4G	8820	2.00	1.03				
8B4G	8821	1.75	.92				
6C5G	8822	1.25	.65				
6C6G	8823	1.50	.78				
6F5G	8824	1.25	.65				
6F6G	8825	1.35	.70				
6H4G	8826	1.35	.70				
6J5G	8827	1.35	.70				
6J7G	8828	1.50	.78				
6K5G	8833	1.35	.70				
6K6G	8834	1.35	.70				
6K7G	8835	1.35	.70				
6L5G	8836	1.50	.78				
6L6G	8837	2.50	1.30				
6L7G	8838	1.75	.92				
6M5G	8839	1.50	.78				
6N7G	8841	1.75	.92				
6Q2G	8843	1.35	.70				
6R7G	8844	1.35	.70				
6S5G	8845	1.50	.78				
6T7G	8846	2.25	1.18				
6U7G	8847	1.35	.70				
6V6G	8848	1.75	.92				
6V7G	8849	1.35	.70				
6W5G	8850	1.50	.78				
6X5G	8851	1.50	.78				
6Y7G	8852	1.50	.78				
25A6G	8855	1.50	.78				
25B6G	8857	1.75	.92				
25L6G	8858	2.25	1.18				
25Z6G	8859	1.50	.78				

METAL TYPES

Type	No.	List	NET
5T4	8860	\$1.50	\$0.78
5W4	8861	2.50	1.30
5Z4	8862	1.00	.52
	8863	2.00	1.03
6A8	8864	1.50	.78
6B8	8865	1.75	.92
6C3	8866	1.25	.65
6F5	8867	1.25	.65
6F6	8868	1.35	.70
6G7	8869	1.25	.65
6H7	8870	1.50	.78
6K7	8871	1.35	.70
6L6	8872	2.25	1.18
6L7	8873	1.75	.92
6N7	8874	1.75	.92
6Q2	8875	1.35	.70
6R7	8876	1.35	.70
6V6	8877	1.75	.92
6X5	8878	1.50	.78
6Z5	8879	1.50	.78
28L6	8880	2.25	1.18
28Z6	8881	1.50	.78

Knight



RADIO TUBES

The popular KNIGHT line of radio tubes has been greatly enlarged to offer the most complete selection of glass type tubes as well as the latest new metal tubes. You can understand all competition with this popular line of superior quality tubes. They are precision-built for steady, dependable performance. All KNIGHT tubes are packed in factory-sealed cartons assuring perfect merchandise. Attractive, safety-first packaging, dependable quality and low factory prices will give you big volume-building sales. Put in a stock of popular types and watch your tube profits soar. We carry the complete line of KNIGHT tubes in stock at all times.

KNIGHT Tubes are priced at 10% to 15% BIGGER PROFITS! Put in a stock of popular types and build real profits. We carry the complete line of KNIGHT Tubes in stock at all times. You can depend on ALLIED for real service.

METAL TYPES

Type	No.	List	NET
824	81060	\$1.50	\$0.70
8W4	81062	1.50	.70
8Z4	81061	2.50	1.17
	81063	2.00	.93
6A8	81064	1.50	.70
6B8	81065	1.75	.83
6C6	81066	1.25	.68
6F5	81067	1.25	.68
6F6	81068	1.35	.63
6H6	81069	1.25	.68
6J7	81070	1.50	.70
6K7	81071	1.35	.83
6L8	81072	2.25	1.06
6L7	81073	1.75	.83
6N7	81074	1.75	.83
6Q7	81075	1.35	.63
6R7	81076	1.35	.63
6V6	81077	1.75	.83
6X3	81078	1.50	.70
25A6	81079	1.50	.70
25L6	81080	2.25	1.06
25Z6	81081	1.50	.70

Type	No.	List	NET	Type	No.	List	NET
1A4	8960	\$1.75	\$0.83	12A	8904	2.75	1.28
1A6	8961	1.75	.83	12B	8907	2.75	1.28
18A	8962	2.25	1.06	18	8908	2.25	1.06
18B	8963	1.75	.86	19	8909	1.25	.68
106	8964	1.75	.83	20			
1F4	8965	1.50	.78	21	8910	2.25	1.06
1F6	8966	2.25	1.06	24A	8912	1.00	.47
2A3	8967	2.50	1.17	25	8913	.75	.35
2A5	8968	1.25	.66	26	8914	.80	.37
2A6	8969	1.50	.86	27			
2A7	8970	1.50	.86	28			
283	8971	1.00	.54	29	8915	1.00	.47
823	8972	1.00	.51	30	8916	.90	.43
8A3	8973	2.00	.93	31	8917	1.10	.51
64A	8974	1.50	.77	32	8918	1.35	.63
64B	8975	1.50	.77	33	8919	1.75	.83
6A7	8976	1.40	.65	34			
6B7	8978	1.50	.70	35/51	8920	1.10	.51
6C8	8979	1.25	.66	36	8921	1.10	.51
8D8	8980	2.25	1.06	37	8922	1.10	.51
8D9	8981	1.50	.78	38	8923	1.25	.68
6E6	8982	2.00	.93	39/44	8924	.90	.43
6E7	8983	1.75	.83	41	8925	1	

RECIPIERS SPECIAL TUBES BULBS

KENRAD 6 & 12 VOLT LIGHT BULBS

G.E. Incandescent light bulbs of superior construction. Designed for storage battery operated lighting systems. Ideal for farms, camps, lodges, house-trailers, etc. Provide excellent light with maximum efficiency and economy.

6 VOLT LAMPS

No.	Watts	Drain	EACH
B890	25	2.5 Amp.	25c
B891	25	4.2 Amp.	35c
B892	50	8.5 Amp.	35c

12 VOLT LAMPS

B893	15	1.3 Amp.	25c
B894	25	2.1 Amp.	35c
B895	50	4.2 Amp.	35c

WRITE FOR QUANTITY PRICES IN STANDARD CARTON AND CASE LOTS. For a complete listing of 6 Volt Light Plants and associated equipment, see pages 149, 150. We specialize in 6 Volt Lighting Equipment. Let us know your needs and we shall supply.



GENUINE G.E. TUNGAR BULBS



The well-known, highly efficient G.E. Tungar Bulbs. Used in many standard chargers. Will replace incandescent bulbs of the same rating. Shght. wt., 2 lbs. The very finest charger bulbs made. Universally famous for efficient operation and long life.

No.	Type	Fig.	NET EACH
B6440	2 Amp.	A	\$2.94
B6441	2 Amp.	B	
B6442	(Top Connection)	C	
B6443	5 Amp.	D	\$4.41
B6444	6 Amp.	D	
B6445	15 Amp.	D	\$8.82

NEW KNIGHT RESISTANCE TUBES

New metal-shell ballast tubes for replacement in A.C.-D.C. sets, identically the same in electrical characteristics and base connections as originals. 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.

Stock No.	Type No.	Replaces
B1030	50A2	50A2, KN40C, K49Y, 165RS, 165KA, 6P
B1031	50B2	50B2, KN45B, 165RA, 165KB, KN4X, 5B
B1032	K23C	K23C
B1033	K39C	K39C
B1034	K55C	K55C
B1035	K55H	K55H
B1036	K74B	K74B
B1037	K90B	K90B
B1038	K90B	K90B
B1039	K90F	K90F
B1040	L49C	L49C, L124, 69, 2037
B1041	L42C	L42C, L104
B1042	L49B	L49B, 211C, 224, 69, 2033
B1046	L49C	L49C
B1043	L55B	L55B, 24V-215, 8508
B1044	L55C	L55C
B1045	L56H	L56H
B1047	L58B	L58B

List, 80c. YOUR NET PRICE, EACH **29c**

FREE—Knight Glass and Metal Resistance Tube General Specifications Chart sent on request. Contains complete list of Resistance Tubes to help you find the right replacement.

GENUINE EVEREADY MAZDA BULBS

GENUINE Eveready Mazda bulbs for radio and flashlight use. All have miniature screw base except those marked "H". Incandescent bulbs with these genuine Mazdas for longer bulb life. Cheaper than foreign-made bulbs in the long run. Take advantage of quantity prices and buy them in lots of ten.

Stock No.	Lamp No.	Volts	Amps.	PRICE EACH	PER 10
B1250	41	2.5	.50	\$0.09	\$0.54
B1251	43*	2.5	.50	.10	.59
B1252	42	3.2	.35	.12	.71
B1253	40	6.3	.15	.09	.54
B1257	50†	6-8	.20	.10	.59
B1236	51†	6-8	1.0	.07	.43
B1254	Spec.	2.0	.06	.28	1.81
B1217	Spec.*	2.0	.06	.22	1.29
B1255	44*	6.3	.25	.09	.54
B1256	46	3.2	.25	.09	.54

*Indicates miniature bayonet base. †Indicates small round bulb.

Stock No.	Lamp No.	Call	Volts	Amp.	Price Each	Box of 10
B1220	223	2	2.2	0.25	\$0.09	54c
B1221	233	2	2.3	0.27	.09	54c
B1222	13	3	3.8	0.30	.09	54c
B1223	14	2	2.6	0.30	.09	54c
B1224	21	3	6.2	0.30	.11	65c
B1225	138	1	1.2	0.60	.10	59c
B1226	243	2	2.4	0.80	.11	65c

GENUINE SPARTAN RADIO TUBES

For use in the older model Spartan sets using 3 volt tubes, for which no other types may be substituted. These type tubes are in popular demand. Carry a stock of the types listed below. There's rapid turnover and good profits in them.

TYPE 485	TYPE 483	TYPE 482-B
B1000, 485, Amp. Det. Replaces type 484. List, \$2.00. NET..... \$1.37	B1001, 483, Power-Amp. Replaces type 183. List, \$2.00. NET..... \$1.37	B1002, 482-B, Power-Amp. Replaces type 182-B. List, \$2.00. NET..... \$1.37

GENUINE KELLOGG TYPE 401 A.C. TUBES

The original Kellogg A.C. detector-amplifier tubes, noted for superior construction and long life. Heater Volts, 3. Heater Amps., 1. Maximum plate volts, 150. For use as amplifier or detector.

B1010, List \$6.00. YOUR PRICE..... \$2.33
TYPE 403 A.C. TUBES
For use in the last a d i o stage. Heater Volts, 3. Heater Amps., 1.5. Plate Volts (Max.), 180. Grid Volts (negative), 40. List \$5.00. YOUR PRICE..... \$2.94

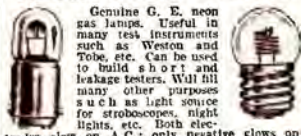
DURESITE VOLTAGE REGULATOR TUBES

Ballast type voltage control tube. Efficient and accurate. Original equipment on many standard sets.

B1004, TYPE 110. For use with: Brunswick S14, S21, S21 (60 cycle), 11, 21, 31 (25 cycle). Bremer-Tully R1, S2 (25 cycle), 83, S1 (60 cycle). Grebe 21950, 270C, 285, 450. Hammarlund 111 Q 20, National.
B1005, TYPE 105. For use with: Brunswick 14, 21, 31 (60 cycle). Bremer-Tully S1, S2 (60 cycle). List, \$3.00. NET EACH..... \$1.65

We can supply any Duresite made. Write for prices or order tube desired with deposit.

GENERAL ELECTRIC NEON GLOW LAMPS



GENUINE G. E. neon gas lamps. Useful in many test instruments such as Weston and Tobe, etc. Can be used to build short and long range testers. 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 165 to 120 volt operation. Feature very low current drain.

B6454, MIDGET 1/4 WATT. Candelabra base. Pear shape clear bulb for tube testers. 3/4" diam. Split cone electrode. NET..... 36c
B6457, MIDGET 1/4 WATT. Bayonet Base. Will exactly replace bulb in Tobe Neon Condenser Tester. Tubular clear bulb. NET..... 41c
B6452, MEDIUM 1/2 WATT. Edison Base. 1 1/2" x .010 Amp. Round 1 1/4" dia. For A.C. only. Split cylindrical electrode. NET..... 36c
B6451, MEDIUM 1 WATT. Edison Base. 1 1/2" x .010 Amp. Round 1 1/4" dia. Spiral electrode. See right hand cut above. NET..... 36c
B6450, MEDIUM 2 WATT. Edison Base. 1/2 C.P., .029 Amp. Pear shape, 1 3/4" dia. Split-disc electrode. NET..... 45c
B6453, MEDIUM 3 WATT. Edison Base. Round electrodes. An ideal night light. Excellent for test panel. NET..... 54c

PORCELAIN SOCKETS

For neon lamps. Highest quality porcelain construction. Screw terminal for easy connection. For Edison and candelabra bases.

B6459, Edison Base. Cleat mounting type. NET EACH..... 10c
B6460, Edison Base. Sub-panel mounting. NET EACH..... 16c
B6461, Candelabra Base. Sub-panel mounting. NET EACH..... 28c

MALLORY BIAS CELL

Designed to furnish initial bias for IF, IP and AVC tubes. Size, only 1/2" x 1/4". Noiseless; non-reactive at audio frequencies. Provides a no-current potential of 1 Volt = 10%. Cells may be used in series for higher bias voltage. These cells greatly eliminate distortion caused by conventional bias arrangements.

B11939, YOUR PRICE EACH..... 18c
BIAS CELL HOLDERS
B11946, For one cell. NET..... 6c
B11947, For two cells. NET..... 12c
B11948, For three cells. NET..... 18c
B11949, For four cells. NET..... 21c

NEW AMPERITE VOLTAGE REGULATORS FOR BATTERY SETS

Replacement voltage regulator tubes for many popular battery operated radio sets.

B1007, Type 5E1 (1A1)*. For Hosh 612, Eria 660, Spartan S1. 8c.
B1008, Type 6-1 (1J1)*. For Sentinel 7700, Eria 7700. NET EACH..... 94c

*Indicates new RMA type number. We can supply all Ampelite voltage regulators for battery sets. Specify type number and send deposit with order. List D. O. headquarters for all types of voltage-regulator tubes and devices.



Here is **ALLIED'S** design for 1938 radio servicing. Because complex circuits, new engineering wrinkles, and intricate mechanisms have changed the nature of radio servicing, today's "Well-dressed Service Shop" must have complete, modern, professional equipment prepared to handle *today's* problems.

In the following pages, **ALLIED** offers radio's most comprehensive selection of everything you'll need to outfit a complete, modern service shop—to handle every service job. Make the **ALLIED Catalog** your *Buying Guide*—for better work, for satisfied customers, for maximum returns on your investment.

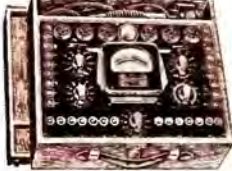
SHOP YOUR ALLIED CATALOG FOR:

- ① **SIGNAL GENERATOR**
For accurate alignment of all radio sets, every service shop needs a modern signal generator. **ALLIED** offers the nationally known Supreme, Clough-Brengle, Triplett, Reardite, and Ranger makes in models for either A.C. or battery operation. See these on pages 23-27, 29-31.
- ② **CATHODE RAY OSCILLOSCOPE**
For complete visual checking of any radio receiver including alignment, distortion, selectivity, etc. Indispensable for checking modern all-wave, high-fidelity receivers. Turn to pages 23-26, 31 for descriptions and illustrations of new Supreme, Clough-Brengle, Triplett and R.C.A. models.
- ③ **SERVICE ANALYZER**
For quick, precise measurements of voltages, current, and resistance, a modern Service Analyzer is a necessity. One of these modern instruments does the work of several separate meters. Newest Weston, Triplett, Supreme, Clough-Brengle, and Reardite models are shown on pages 23-26, 28, 30.
- ④ **MODERN TUBE CHECKER**
To accommodate all tube types—including newest metal, octal, and glass tubes as well as older types—a modern tube checker must be used. These new instruments will test every tube now in use—accurately, efficiently, conveniently. **ALLIED** lists a very full line including Triplett, Supreme, Million, Dependable, Weston, Reardite, RTL, and Ranger models. Turn to pages 23-25, 27, 29-31.
- ⑤ **CONDENSER ANALYZER**
Measure all condensers for capacity, leakage, shorts, and power factor with an up-to-date instrument which is thoroughly accurate. Triplett, Tobe, and Solar models are featured on pages 28, 31.
- ⑥ **HANDY CHASSIS CRADLE**
Utmost convenience and safety in radio servicing are assured by the new Clensis Cradle shown on page 111. Holds any model or size radio or amplifier chassis in any position. Prevents damage to parts in set, and leaves both hands free for work.
- ⑦ **COMPLETE TOOL EQUIPMENT**
Every radio tool you need—soldering irons, pliers, screwdrivers, wrenches, hacksaws, circle-cutters, aligning tools, drills, and combination kits in the leading brands are listed at the lowest prices. Turn to pages 110-113 for complete descriptions.
- ⑧ **SERVICE BOOKS**
A complete service library can be built up from the extensive selection in this catalog. Service manuals such as Rider's and Gerasback's, books on theory such as Glirardi's, troubleshooters' handbooks and "encyclopedias are offered to meet every reference need. Books on Radio Engineering, Sound, Television, and Refrigeration are also included. See pages 36-37, 139.
- ⑨ **BASIC PARTS STOCK**
Every service shop should regularly stock an assortment of tubes, resistors, condensers, volume controls, and other replacement parts which are used on practically all service jobs. **ALLIED'S** listing of replacement parts is the most complete you've ever seen. All quality brands are included, and listings cover all types and ratings. Refer to pages 17-21, 40-68, etc.

YOUR ALLIED CATALOG

Here's one servicing help you can't do without. Your **ALLIED Catalog** is a true radio index, a reference book, a buying guide—all in one. Keep it handy on your service bench—make it your one dependable, money-saving source for all radio supplies.

New SUPREME Test Equipment



- ### NEW 502 RADIO TESTER
- New Floating Filament Return.
 - Tapped Line Voltage Selector.
 - "Good-Bad" Tube Test Scale.
 - Five Ohmmeter Ranges.
 - Makes Condenser Leakage Tests.
 - Four Voltage Ranges AC or DC.

A "Supreme" achievement in modern tube tester design. Permits fast, accurate testing of every existing class or metal type tube. New "Floating Filament Return" selector switch makes possible tests of all tubes, present or future, regardless of filament connection locations. Only six sockets are required to handle all tube types. Direct-reading "Good-Bad" scale for tube tests is also used for electrolytic condenser leakage tests. Neon bulb provides check on electrolytic condenser leakage. New square meter with 1 M.A. movement (1000 ohms per volt) has nine scale ranges for external circuit tests. Meter ranges are: 0-7-140-200-1400 volts A.C. or D.C.; 0-200-2000-20,000 ohms and 0-2-20 megohms. 0-200 ohm scale has mid-scale reading of 3.5 ohms. All meter scales are evenly spaced. This new tube tester has been designed to operate on house work, either in the shop or on service call. Tests are made while tube is hot, thus insuring accuracy; neon bulb indicates opens, leakage, or shorts between any two elements. A new Supreme tube testing circuit simplifies operation; requires a minimum of controls for each test. Panel selector switch corrects line voltage variations. External circuit tests using multimeter ranges are made extremely simple by means of test jacks for test leads. Model 502 tester is housed in a solid oak cabinet 21" wide, 12" high, 10" deep. Antique bronze panel has neatly embossed markings. With complete tube charts and instructions. For 115 volts 50-60 cycles. Wt., 16 lbs.

B10283. NET CASH PRICE \$4895

S.I.C. TIME PAYMENTS: \$5.50 down, \$4.95 monthly for 10 months.

MODEL 501 TUBE TESTER

This new instrument uses the same advanced tube checking system used in the Model 502 described above, but contains no set testing ranges. Employs the new floating filament return system; tests every tube now in use with full precision for future types.

B10267. NET CASH PRICE \$36.21

S.I.C. TIME PAYMENTS: \$4.00 down, \$3.66 monthly for 10 months.

529 FREQUENCY MODULATOR



A newly developed unit for use in visual alignment work. May be used with any signal generator having frequency modulator input terminals, especially the popular Model 574 (listed on page 24, B10256). Will frequency modulate the carrier of the R.F. Signal Generator allowing the output to be used with an oscilloscope for visual alignment of set under test. Completely electrical in operation, the Model 529 has a tank circuit and ket, using an iron-core inductor. Frequency modulation is accomplished by electrical variation of the inductance of this tank circuit, with hand wheel controllable as desired by the operator. Only two panel controls, one for adjustment of band width, and one for idiosync control, each one calibrated for ease of operation. In conjunction with an oscilloscope and signal generator the Model 529 provides an accurate, easily-operated means of producing perfect alignment jobs. In attractive wood case with handy carrying handle; overall size only 6x7x5".

B10264. NET CASH PRICE \$2151

S.I.C. TIME PAYMENTS: \$4.00 down and \$4.00 monthly for 5 months.



505 STANDARD TUBE TESTER

Here is a high quality tube tester which combines low cost with maximum flexibility and accuracy. Completely tests all metal or glass tubes in 8 sockets without adapters. All tubes tested under RMA rated loads. New Supreme Quadrimeter with Bi-illuminating needles is indirectly illuminated through dual-view windows. Ten meter scale has three sectors, "Good", "Bad" for quality test to indicate emission losses before scale divided into 100 divisions for close comparison checks between tubes of similar types. Built-in power supply has complete adjustment for varying line voltages.

Accuracy indicates exact condition of any tube by testing under actual operating conditions, with load conditions conforming to RMA ratings. Full neon test for inter-element leakage quickly separates good tubes from bad. Tests all sections of tubes and both plates of full-wave rectifiers. Housed in attractive hardwood case with carrying handle and detachable lid. Ideal for either counter or portable use. Size 19x13x6 1/2" overall. For 115 Volts, 60 cycle A.C.

B10259. NET CASH PRICE \$4699

S.I.C. TIME PAYMENTS: \$5.25 down and \$4.75 monthly for 10 months.

535 2" CATHODE-RAY OSCILLOSCOPE

- New Two-Inch Cathode-Ray Tube.
- New Snap-lock Synchronizer.
- Calibrated Amplifier Controls.
- Adjustable Screen Hood.
- Exclusive Uni-control.
- Flexible Control Functions.



A new, compact oscilloscope with the exclusive new two-inch screen cathode-ray tube! Meets every requirement of visual alignment work which is so important in the servicing of modern radio sets. Has many important features. Uses a new 2" screen cathode-ray tube which has four times the usable image surface of the 1" tube. Return sweep eliminator assures freedom of frequency sweep return. Has selective return sweep eliminator for inclusion or rejection of power supply frequency return sweep; snap-lock synchronizer for positive interlock of linear oscillator with input signal. New Uni-control permits separate control of two circuits with only one shaft. Simplifying operation.

INCLUDES BUILT-IN AMPLIFIERS

Linear oscillator with vernier control has seven ranges covering 15 to 20,000 C.P.S. both in horizontal and vertical amplifiers have range of 15 to 10,000 C.P.S. with graduated gain controls. With separate controls for intensity and focus of trace. The horizontal amplifier has a sensitivity of 0.8 peak volt and vertical amplifier sensitivity is 0.7 peak volts per inch deflection. Has built-in provisions for either external or internal synchronization. Model 535 is a complete, flexible unit with a minimum of controls for simplicity and ease of operation. Circuits are completely protected by high-speed fuses; has on-off switch equipped with indicating pilot light. Sturdy oak-finished carrying case is only 12x13x10" overall, with attractive antique bronze panel. Complete with cables and operating instructions. For 110

B10265. NET CASH PRICE \$4895

S.I.C. TIME PAYMENTS: \$5.50 down, \$4.95 monthly for 10 months.

530 2" CATHODE-RAY OSCILLOSCOPE

A new, inexpensive 2" oscilloscope, similar to the Model 535 described above, but does not have built-in horizontal amplifier and linear time base oscillator. Particularly suitable for use in all Anasette stations for chassis modulation and low 2,000-3000 cycles per sec. Uses three tubes: 2" cathode-ray tube, 6J7 vertical amplifier, and 6Y4 rectifier. Size 9 1/2 x 6 1/2 x 12". For 110 volts, 50-60 cycles A.C. Wt., 15 lbs. With tubes and instructions.

B10266. NET CASH PRICE \$2935

S.I.C. TIME PAYMENTS: \$4.00 down, \$4.13 monthly for 7 months.

MODEL 551 ANALYZER

The new Model 551 Analyzer permits fast and accurate checking of all radio circuits through the use of Supreme exclusive "Free Reference Point System of Analysis." All resistance, voltage, and current measurements may be taken between any two tube elements or between any tube element and ground or chassis without removing the receiver from its cabinet. All multimeter ranges are read directly on the new type square flush-panel meter, built to high standards of precision by Weston Instrument Co. Meter ranges are: 0.7-140-250-1400 volts D.C. (at 1000 ohms per volt); 0.7-350-1400 volts A.C.; 0.7-25-140 milliamperes D.C.; 0.7-140-350-1400 volts audio range; and 200-2,000-20,000 cycles per sec. range. All ranges are graduated, with 1 ohm as first indication and 3.5 ohms as center scale on the low range. For use on 110 volts, 60 cycles only. Housed in an oak carrying case. Complete with all leads, cables, adapters and full operating directions.

B10268. NET CASH PRICE \$3817

S.I.C. TIME PAYMENTS: \$4.25 down and \$3.86 monthly for 10 months.

MODEL 541 MULTIMETER

The new Supreme Model 541 Set Tester is one of the most efficient multimeters ever offered the serviceman. It has been especially designed to provide fast, accurate readings; its 20 ranges and functions are at your finger-tips on a single selector switch. Four voltage ranges are provided: 0.7-140-250-1400 volts at 1000 ohms per volt; four A.C. voltage ranges of 0.7-140-350-1400; three D.C. milliamperage ranges of 0.7-35-140 with 0.2 milliamperes as first marking; 1 output ranges of 0.7-140-350-1400 A.C. volts requiring no external capacitor; 3 ohmmeter ranges of 0-20-100 ohms; and 2 high resistance ranges of 0-2-20 megohms. All resistance measurements are made with self-contained power supply. All ranges are easily read on evenly spaced scales. Compact and light in weight, the entire unit in oak finished carrying case measures only 7 1/2 x 5 1/2 x 11 1/2". Wt., 9 lbs. For use on 110 volt, 60 cycle A.C. only. Complete with test leads and full operating instructions.

B10259. NET CASH PRICE \$2641

S.I.C. TIME PAYMENTS: \$4.00 down and \$3.67 monthly for 7 months.

New SUPREME Equipment

SUPREME 585 DE LUXE DIAGNOMETER

- A Complete Portable Laboratory.
- Doubly-View Illuminated Tubes.
- Full Analysis of Every Circuit.
- Tube Tests on "Good-Bad" Scale.
- Forty-two Multimeter Ranges.
- 5 Decibel Ranges -10 to +46 DB.



A truly advanced professional service test instrument. Makes quick and accurate checks of all circuits and components; also tests every type of metal or glass tube. All measurements of resistance, voltage, current, capacity, power level, etc., as well as tube and condenser tests, are read directly from two sensitive D'Arsonval meters with multiple scales. These new quadrimeters, exclusive with Supreme Instruments, have bi-indicating needles and illuminated double-view windows for fast accurate readings. All tube tests and electrostatic condenser leakage tests are made with direct-reading "Good-Bad" scales.

FORTY-TWO FUNCTIONS AND RANGES

Meters are accurately calibrated to read: 0-7-35-110-350-700-1400 A.C. or D.C. volts, or D.C. M.A.; 0-14 D. Amperes; 0-100-2000-20,000-200,000 ohms, and 0-2-20 mega; 0-07-.35-1.4-3.5-7-14 mfd.; -10 to +5.0 to +15, +4-10 to +28, +30 to +36, +39 to +46 D.B. A.C. and capacity ranges are read from evenly spaced scales for accuracy. The Model 585 incorporates Supreme's exclusive Free Reference Point Analysis system that checks every circuit. New balance ratio tube-testing circuit accurately indicates tube deterioration; tests for opens, leakage, and inter-circuit shorts. Housed in an oak-finished carrying case with removable cover; size 22 1/2 x 15 1/2" overall. With all necessary charts, instructions and accessories. For 110 volts, 240/0 cycles.

B10250. NET CASH PRICE..... \$95.00
S. I. C. TIME PAYMENTS: \$10.00 down, \$8.00 monthly for 12 months.

SUPREME 550 DE LUXE RADIO TESTER

- Free Reference Point Analyzer.
- Tests All Metal and Glass Tubes.
- Twenty-nine Multimeter Ranges.
- Completely Tests All Circuits.
- Directly Illuminated Meter.
- Tests All Condensers.



This new Supreme test instrument is a combination set analyzer and point-to-point tester. Provides complete circuit analysis of resistance, voltage and current as well as tube tests directly from tube sockets in set. All meter ranges are applied through the analyzer cable making it unnecessary to remove the elements from the cabinet. Meter ranges are: 0-7-35-110-350-700-1400 V. A.C. and D.C. - at 1000 ohms per volt; 0-35-140-350-700-1400 M.A., D.C.; 0-14 Amperes (external only); 0-2-2000-20,000-200,000 ohms and 0-2-20 megohms; -10 to +5.0 to +15, +10 to +28, +30 to +36 and +39 to +46 D.B. Leakage of electrostatic condensers reads directly on meter dial; makes electrostatic leakage test; all electrostatic condensers can be tested at rated working voltage. Supreme's famous Free Reference Point method of analysis enables complete checking of all circuit components. Size 18 1/2 x 14 1/2 x 1 1/2" overall. Complete with test probes, cable and plug-in adapters, charts, and complete instructions. For 110 Volts, 240/0 cycle A.C.

B10254. NET CASH PRICE..... \$54.83
S. I. C. TIME PAYMENTS: \$8.00 down, \$5.55 monthly for ten months.

MODEL 540 STANDARD ANALYZER

Similar in appearance and performance to the Model 550, but does not include the tube testing circuit or power rating scales. Has 24 ranges and functions. A truly DeLuxe Radio Tester.

B10255. NET CASH PRICE..... \$36.20
S.I.C. TIME PAYMENTS: \$4.00 down, \$3.66 monthly for 10 months.

570 SIGNAL GENERATOR



An All-Wave Signal Generator covering from 30 K.C. to 60 M.C. Fundamentals cover 30 K.C. to 30 M.C.; harmonics cover 30 M.C. to 60 M.C. Has directly calibrated airplane dial. Unusual stability afforded by use of electron-coupled oscillator and complete circuit shielding; not affected by varying load or line voltage. Produces modulated or unmodulated signal; tap-jacks furnish 400 C.P.S. audio signal for test purposes. Has provisions for use with an external frequency modulator if desired for 400 C.P.S. is obtained from built-in modulator. R.F. output may be smoothly controlled by means of ladder-type attenuator. Complete with tubes, instructions and accessories. Overall size is 10 1/2 x 8 1/2 x 5 1/2" overall. For 110 volts 50-60 cycles.

B10256. NET CASH PRICE..... \$31.30
S. I. C. TIME PAYMENTS: \$4.00 down, \$3.90 monthly for 8 months.

MODEL 580 SIGNAL GENERATOR

Has all the features of the Model 570 with additional functions necessary for precision test work. R.F. output may be electronically frequency-modulated at a constant band-width of 24 K.C. Built-in beat-frequency oscillator is accurately calibrated from 50 to 10,000 C.P.S. R.F. carrier may be used unmodulated, frequency-modulated, or amplitude-modulated 30% at 400 C.P.S. for a built-in audio signal. Also provides 400 cycle signal for external tests. In portable oak case. For 110 volts, 60 cycles. A.C.

B10252. NET CASH PRICE..... \$53.85
S. I. C. TIME PAYMENTS: \$6.00 down, \$5.44 monthly for 10 months.

SUPREME 555 DIAGNOSCOPIC



A combination of the 545 Cathoray Oscilloscope and 585 Signal Generator. Provides fundamental frequencies from 30 K.C. to 20 M.C. with harmonics to 60 K.C. to 60 M.C. It may be used unmodulated, or 30% modulated at 400 cycles. Has built-in provisions for either frequency or amplitude-modulation of carrier for visual alignment work with the oscilloscope. May be used for accurate measurements of wave-form, voltage gain, distortion, etc. "Sawtooth" oscilloscope has range of 7 to 20,000 C.P.S. horizontal and vertical amplifiers have range of 20 to 90,000 C.P.S. Has individual controls for Signal Generator and Oscilloscope so that either may be used separately if desired. The Model 555 Diagnosticscope is an ideal instrument for the "top-to-the-minute" service shop. Its complete flexibility of operation and numerous functions permit "peak" alignment so vital to the operation of modern receivers, as well as accurate analysis of antenna impedances and other circuits. Completely enclosed in metal cabinet. 16 1/2 x 24 1/2" overall. Complete with all tubes, and operating charts and instructions. For 110 Volts 50-60 cycles.

B10253. NET CASH PRICE..... \$144.99
S. I. C. TIME PAYMENTS: \$15.00 down, \$12.05 monthly for 12 months.

545 CATHORAY OSCILLOSCOPE

A visual servicing instrument of unusual value. An absolute necessity in the modern service shop. The 545 Cathoray Oscilloscope is similar in design, appearance, and operation to the 555 Diagnosticscope described above but does not have the built-in signal generator. Supplied with complete set of R.C.A. tubes and all necessary operating instructions. Housed in sturdy steel case. For operation on 110 volts, 50-60 cycles.

B10281. NET CASH PRICE..... \$91.09
S. I. C. TIME PAYMENTS: \$10.00 down, \$7.68 monthly for 12 months.

510 FOUNDATION KIT



A modern volt-ohm-milliammeter in complete kit form. Easily assembled and interchangeable to the Serviceman, Experimentor or Amateur. The new Sensitive Quadrimeter included employs a bi-indicating or double-pointer. Easy-to-read dial scales are clearly marked. A.C. voltage ranges are read on evenly-spaced scales for greatest convenience. Second-point needles permit accurate even in poor light. Dial scales may be illuminated by dial lights if desired. This new and exclusively designed meter measures 3 1/2 x 7 1/4" Has removable dust-proof cover made of attractive bakelite.

TWENTY-SEVEN RANGES

The complete kit contains all parts necessary for the following ranges: 0-35-140-350-700-1400 A.C. or D.C. volts and D.C. milliamperes; 0-2-2000-20,000-200,000 ohms. A.C. ranges may be used for output measurements. Kit consists of: 1-NEW SUPREME QUADRIMETER, 1-meter adjustment resistor, 2-metalized resistors, 2 A.C. voltage ranges, 6-metalized resistors with 6 matched capacitors added for A.C. voltage readings, 1-zero test potentiometer, 1-A.C. rectifier, all necessary switches, and complete instructions. For 110 volts.

B10257. NET CASH PRICE..... \$17.59

500 AUTOMATIC TUBE TESTER



Designed to meet every requirement of present day tube testing. Tests all types of metal or glass tubes and accessories of all types of dynodes and provides a multi-purpose meter for additional circuit analysis. Meter ranges available are: 0-7-140-350-700-1400 V.A.C. and D.C.; 0-7-140-700-1400 M.A. D.C.; 0-2-2000-20,000-200,000 and 0-2-20 megohms; -10 to +5.0 to +10 and -10 to +28 D.B. Tubes are tested for quality under rated operating conditions; flashlight-reading meter scale exclusive filament return selector switch. Neon test for internal leakage; also checks leakage of electrostatic condensers. Multi-meter ranges may be used for Free Reference Point Analysis by means of test leads. Housed in attractive modern oak carrying case with slip-hinged cover. Size 20 1/2 x 15 1/2 x 5 1/2" overall. Furnished with all necessary accessories, instructions and tube charts. For 110 Volts 50-60 cycle A.C.

B10260. NET CASH PRICE..... \$65.60
S. I. C. TIME PAYMENTS: \$7.50 down, \$6.61 monthly for 10 months.

Modern TEST EQUIPMENT

CLOUGH-BRENGLE INSTRUMENTS CRA OSCILLOGRAPH



A precision instrument for visual checking of voltage and current problems. Laboratories, schools, etc., will find it invaluable for measurements of voltage, modulation percentage, audio distortion, etc. When used with the Model OM-A, or 110 and 111, provides actual sensitivity measurements at all R.F. and I.F. frequencies. Horizontal and vertical amplifiers have a sensitivity of .35 R.M.S. volts per inch of deflection. Horizontal sweep rate is adjustable from 12 to 20,000 C.P.S. Housed in a black crystalline-finished steel case measuring 13 1/2" high, 17 1/2" wide and 8 1/2" deep. With calibrated screen and all necessary tubes. For 110 V. 60 cycle A.C. Ship. wt. 41 lbs. **B10371.**

\$77.91

CASH PRICE

TIME PAYMENTS: \$9.00 down, \$8.05 monthly for 10 months.



105 OSCILLOGRAPH

A portable oscillograph designed and built around the type 91C cathode-ray tube. Will permit accurate alignment of all-wave receivers, and the study of all radio circuits. Has a host of other applications. Incorporates separate vertical and horizontal sweep amplifiers, and linear sweep with range of 15 to 30,000 C.P.S. Input sensitivity is 68 RMS volts for full screen deflection. For 110 volts, 60 cycle A.C. Wt. 18 lbs. Size, 8 3/4" high x 5 1/4" x 9 1/2".

B10370. Complete with tubes.

\$47.92

NET CASH PRICE

TIME PAYMENTS: \$5.50 down, \$5.05 monthly for 10 months.



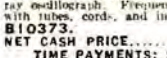
ALL-WAVE SIGNAL-GENERATOR MODEL OC-A

Provides every intermediate, broadcast and short-wave frequency for practically any alignment purpose. Five bands cover all frequencies from 100 KC to 60 megacycles; readings are accurate to 1/2% of 1%. New type dial has per band scale length of 28". Output is continuously variable from a minimum to a very strong signal; modulation cycle is available for audio tests. Housed in rugged, durable metal case, with black crackle finish. Complete with tubes. Wt. 14 lbs.

B10372. NET CASH PRICE.

\$29.35

TIME PAYMENTS: \$3.50 down, \$1.32 monthly for 7 months.



MODEL OM-A

Similar to OC-A, but has frequency modulator for use with radio-frequency oscillograph. Frequency swings plus and minus 15 KC. Complete with tubes, cords, and instructions. For 110 volts, 60 cycles A.C.

B10373. NET CASH PRICE.

\$63.21

TIME PAYMENTS: \$7.00 down, \$6.56 monthly for 10 months.



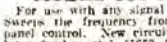
110 SIGNAL GENERATOR

Incorporates many engineering achievements not previously available. Features: 5 band calibration on 2 scales (100 KC to 31 Mc.); R.F. trimmer on each band; adjustable R.F. iron cores; push-pull audio modulation; many other features. Complete with tubes, cables, and complete instructions. In metal case, 24 1/2" x 15 1/2" x 7 1/2".

B10374. CASH PRICE.

\$42.63

TIME PAYMENTS: \$5.00 down, \$4.40 monthly for 10 months.



MODEL 111 FREQUENCY MODULATOR

For use with all signal generators in conjunction with an oscillograph, sweeps the frequency from 0 to 50 KC as determined by calibrated panel control. New circuit filters out objectionable harmonics of modulator fundamental (1650 KC).

Complete with 2 tubes. Net. 20 lbs.

B10368. NET CASH PRICE.

\$35.77

TIME PAYMENTS: \$4.50 down, \$3.85 monthly for 10 months.



120 SUPER ANALYZER 20,000 OHMS PER VOLT

Specially designed so that the most used voltages may be read at approximately 1/2 scale, at the point of greatest meter accuracy. All ranges are switch controlled. Ranges, 0-3.5 V-35-110-250-1100 volts, A.C., 1/200 ohms per volt, and D.C., 0-3000 ohms per volt. 14 and 20,000 ohms. 0-300 meg. ± 4 in. I.D. with multipliers for × 46, × 20, × 2, × 10, and × 50. In metal case, 9 1/2" x 5 1/2" x 10 1/2".

B10369. CASH PRICE.

\$42.63

TIME PAYMENTS: \$5.00 down, \$4.40 monthly for 10 months.

WESTON TEST INSTRUMENTS

SUPER-SENSITIVE ANALYZER MODEL 773-30000 OHMS PER VOLT

Has 4 1/2" multi-scale meter with 100 division scale and sensitive D'Arsonval movement, knife-edge pointer. Ideal for checking all types of radio sets and transmitters; has high sensitivity for analysis of television circuits. Incorporates the following 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; 0-50-100 micro-amperes; 11 A.C.; 0-1-10-50-250 V.C. milliamperes; 0-3000-20,000 ohms; 0-3-30 megohms. High range ohmmeter may be used for condenser leakage tests. Housed in sturdy hybrid carrying case, 6 1/2" x 5 1/2". Attractive etched black panel trimmed in red and chrome.

B10350. NET.

\$52.13



MODEL 773-1 PORTABLE TUBE CHECKER

Carefully designed to provide dependable accuracy, with operating simplicity. Testing circuits will handle all metal and glass type tubes with 3 panel sockets. Highly sensitive Weston meter gives "GOOD-BAD" test of all tubes, with provision for future tests. Has continuously variable line control, neon short and leakage test, and audible noise check. Housed in solid wood case. With fused line cord and rimpole line insulation.

B10351. YOUR NET PRICE.

\$53.81

MODEL 773-2 COUNTER TUBE CHECKER

B10352. The same checker as the 773-1, but housed in a handsome wood counter case. Has exclusive new Weston rapid reference factor-dial, tube chart.

NET.

\$58.13

MODEL 775 COMBINATION SERVICE SET

The Model 775 Service Set combines the Model 773 Tube Checker and the Model 772 Super-Sensitive Analyzer. Sturdily built wood case with ample carrying space for tools and accessories. Contains all the test equipment needed on the average service call. Its attractive appearance is an invaluable sales aid.

B10353. YOUR NET PRICE.

\$104.25

WESTON CHECKMASTER

MODEL 771-2

A complete tube and circuit analyzer. Checks all receiver tubes; measures receiver circuit voltages; locates condenser leakage and makes resistance analyses. Provides separate tests for diode type tubes; checks for shorts under actual operating conditions. Quick reading, easily understandable scale reads "Good-Bad" for tube tests, also reads 0-10-100-1000 volts and 0-2,000,000 ohms. In attractive carrying case. Wt. 17 lbs. For 110 volt, 60 cycle A.C. One of the finest all-purpose testers made. Attracted to bring it within the reach of every radio serviceman.

B10354. YOUR PRICE.

\$55.13

WRITE FOR DETAILS OF OUR TIME PAYMENT PLAN. EARN WITH THESE WESTON INSTRUMENTS WHILE YOU PAY.



NEW DEPENDABLE TUBE TESTER

MODEL 306

A new inexpensive tube tester designed to completely check every type of tube in use today, including all the new tubes. Has complete flexibility; is protected against obsolescence by free 5 year insurance policy with each tester. No adapters required. Each section of every multi-purpose tube is tested. Tests cold cathode rectifier such as 6Z4. Test condition is indicated on rotator "GOOD-RAD" scale of meter. No radio-hokage is checked in neon tube and meter. All elements are hot-checked for shorts and leakage by neon bulb sensitive up to 250,000 ohms. Also measures resistance, capacity, and condenser leakage. For 110 volt, 60 cycle A.C. Has continuously variable line voltage control with proper voltage indicated on meter.

COUNTER MODEL **PORTABLE MODEL**

KIT FORM **KIT FORM**

B10356. 306KC. All parts, including panel and case for building Model 306 tube tester.

NET PRICE **\$17.59**

COMPLETELY WIRED **COMPLETELY WIRED**

B10357. 306C. Completely assembled and wired Counter Tube Tester. As illustrated, in attractive, 6 1/2" x 12 1/2" x 5". A useful double-purpose instrument used as stimulator. Ship. wt. 6 lbs.

NET **\$21.51**

B10358. 306PK. All parts, including panel and portable case with hinged cover, for building 306 Tester.

NET **\$19.55**

B10359. 306P. Completely assembled and wired Portable Tube Tester. "The cover of this tester is removable for counter use. A useful double-purpose instrument of great accuracy."

NET **\$24.01**



TRIODET

MASTER TEST EQUIPMENT

1200-A VOLT-OHM-MILLIAMMETER 2000 OHMS PER VOLT



A compact universal A.C.-D.C. Volt-Ohm-Milliammeter with many new features. Twin meters in single case have separate A.C. and D.C. movements. D.C. meter reads 0-10-50-250-500 volts at 2000 ohms per volt; 0-1-10-50-250 M.A.; 0-1500 ohms-1.5 meg.-3 meg. Has additional "jack" low ohm scale of 5-200 ohms with 15 ohm center scale reading. A.C. meter reads: 0-10-50-250-500-1000 volts. Meter may be tilted and read at any angle; all voltage scales are direct-reading; ohmmeter scales have individual adjustments; less than 1/2%. Panel has plainly etched red and silver markings on a black background. Metal case, 7 1/2" x 5 1/2" x 1 1/2". With leads, probes, battery, and instructions. Ship. wt., 10 lbs.

B9941. List, \$35.75. NET. **\$23.35**

MODEL 1200-B-2000 OHMS PER VOLT

Similar to 1200-A above, but with D.C. tap and rotary oxide resistor for A.C. voltage scales of 2-10-50-250-500-1000 at 1000 ohms per volt. Complete with batteries. Ship. wt., 10 lbs.

B9942. List, \$44.00. NET. **\$28.74**

MODEL 1200-C-5000 OHMS PER VOLT

Same as the Model 1200-A except that meter has sensitivity of 5000 ohms per volt on D.C. voltages. Suitable for checking all circuits, including A.V.C. Also has 250 microammere scale, and additional ohmmeter scale of 7 1/2 megohms. Ship. wt., 10 lbs.

B9943. List, \$40.25. NET. **\$26.29**

MODEL 1200-E-25000 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, a greater sensitivity than was ever available before. New high ohms scale reads 2 and 40 megohms. Also has 0-50 microampere scale.

B9944. List, \$46.75. NET. **\$30.55**

TUBE TESTER MODEL 1210-A



Tests all types of tubes, metal as well as glass. Emission type design with four sockets for making all tests. Reads "GOOD" and "BAD" directly on 3 1/2 inch D'Arsonval meter scale. Indicates short and leakage tests directly on meter. A line voltage regulator is built-in. Simple to use; tests all tubes quickly and accurately. Equipped with rectifier tube and complete instructions. Operates on 100-120 volts, 60 cycle current. In new metal case, 7 1/2" x 5 1/2" x 1 1/2".

B9945. List, \$33.00. NET. **\$21.56**

B9958. MODEL 1310 COUNTER TYPE TUBE TESTER. Same as Model 1210-A, but in two-tone walnut case with metal tube charts and sloping panel. NET. **\$26.63**

FREE-POINT TESTER MODEL 1220-A



For use with the Model 1200 Master Volt-Ohm-Milliammeter. Makes proper voltage tests between any tube element. Tests in series with any tube element, and resistance tests between any tube element or socket contacts. Panel contains 4, 5, 6, combination 7 probe, and 8 setal sockets. Eighteen jacks permit insertion of meter leads for tests. With 7 probe latch plug and 5 adapters. In new metal case. Ship. wt., 8 lbs.

B9946. List, \$16.50. NET. **\$10.78**

ALL-WAVE SIGNAL GENERATORS MODEL 1232

A stable, accurate, direct-reading All-Wave Signal Generator of new design and sturdy construction. Large 12 inch vernier dial scale permits extremely fine and accurate readings on each of the six fundamental frequencies. Bands calibrated 0 from 100 to 30,000 K.C. Amplitude-modulated at 100 K.C. by self-contained audio oscillator. The coils are all individually shielded and placed to require the shortest possible leads. All grid leads are carefully shielded. The modulated attenuator is perfectly smooth and designed for use with A.V.C. circuits requiring a low signal level. Has modulation, "On-Off" switch, 400 cycle audio signal is available for external tests through panel lip jacks. Every advanced detail of modern engineering practice has been followed in the construction of this signal generator. All parts are of the highest quality, skillfully assembled and thoroughly tested. This unit is designed for the hardest use in any laboratory conditions. Mounted in handsome, one-piece, finished metal case; measures 7 1/2" x 5 1/2" x 1 1/2". Complete with shielded leads. For 110 volt 60 cycle A.C.



B9949. List, \$112.25. YOUR NET PRICE **\$26.95**

MODEL 1231 SIGNAL GENERATOR

Same as Model 1232 above, but designed for localities where 110 volt A.C. is not available. Entirely battery-operated. Uses two type 30 batteries and hand service. Complete in metal case with tubes, batteries and connecting leads.

B9948. List, \$38.50. YOUR PRICE **\$25.16**

MODEL 1230

A stabilized frequency, continuously variable Signal Generator. Furnishes frequencies from 100 K.C. to 15,000 K.C. in six ranges. Six individual, hand-drawn calibration charts are supplied, one for each range. Uses type 30 tube as the R.F. oscillator. A separate 30 tube used as audio oscillator generates clear 400 cycle note. Switch on panel permits signal to be used either modulated or unmodulated, 1-22 1/2 V. and 3-1 1/2 V. batteries furnish tube current and facilitate all independent line leakage. All parts are individually shielded. Power taken from oscillator does not affect stability. Output is controlled by 3 jacks and attenuator. In metal case. Complete with tubes and batteries. Ship. wt., 15 lbs.



AUDIO FREQUENCY OSCILLATOR MODEL 1260

The ideal instrument for testing all audio amplifiers, speakers, etc.; fidelity curves may be easily and quickly run using this oscillator and a good output meter. Now circuit makes use of the feedback type oscillator to produce a pure sine wave at 10 different frequencies which are amplified and fed to a universal output transformer, arranged to match any amplifier input. Smooth, positive gain control. Frequency selector switch is controlled 100-250-500-1000-2000-3000-10000-15000 and 10,000 cycles, giving adequate frequency range for full test of audio in any range of metal measuring 7 1/2" x 5 1/2" x 1 1/2". For 110 Volts 60 cycle A.C. operation. Complete with tubes.



B9950. List, \$126.50. NET. **\$27.76**

COMBINATION MASTER UNIT TEST SETS

A professional, completely portable laboratory consisting of four accurate Triodet instruments. Each instrument is described in detail above. Set of four is housed in compact leatherette case as illustrated.

MODEL 1205-A

Consists of: Model 1200-A, Model 1210-A, Model 1220-A, and Model 1230. In leatherette case 17 1/2" x 5 1/2". Complete with test leads, adapters, etc.

B9951. List, \$118.50. YOUR PRICE **\$78.08**

MODEL 1206

Same as 1205-A, but with Model 1231 Master All-Wave Signal Generator instead of Model 1230. Complete with leads and adapters, etc. Ship. wt., 36 lbs.

B9952. List, \$132.75. YOUR PRICE **\$86.73**

MODEL 1207

Similar to 1205-A but with new Model 1232, 110 volt A.C. All-Wave Signal Generator. Complete with all test leads, adapters, etc. Ship. wt., 30 lbs.

B9953. List, \$135.50. YOUR PRICE **\$88.52**

CASES ONLY FOR MASTER UNITS

You can make up any type of combination Portable Test Laboratory by using these handsome cases to house any of the Triodet Master Units.

B9954. FOR SINGLE UNITS. **\$3.92**
B9955. FOR TWO UNITS. **\$4.57**
B9956. FOR THREE UNITS. **\$5.22**
B9957. FOR FOUR UNITS. **\$5.88**

Designed for portable use. Leatherette-covered with protective cloth lining. Have large extra compartment for test leads, adapters, etc.

B9956. FOR THREE UNITS. **\$5.22**
B9957. FOR FOUR UNITS. **\$5.88**
List, \$9.00. YOUR PRICE

TRIPLETT

UNIVERSAL TEST EQUIPMENT



Model 1181-A PORTABLE LABORATORY TESTER

An absolutely modern tester which combines three instruments in one case for complete circuit analysis. Includes: (1) the precision Model 1151 All-Wave Oscillator for aligning all sets and for tube testing; (2) the Model 1125 Universal Volt-Ohm-Milliammeter for point-to-point analysis and as output meter; (3) the Model 1165A Free-Point Auxiliary Set Tester for free-point and standard analysis tests. These three high quality instruments enable you to make point-to-point tests, standard circuit analysis and overall performance tests on all circuits. All units have etched panels.

THREE GREAT TESTING SYSTEMS IN ONE

The new 1181-A Portable Laboratory Tester makes point-to-point analysis without removing the chassis from the cabinet. Quickly and accurately measures voltages, resistances and currents between any two circuit points. For conventional analysis both Auxiliary Set Tester and Volt-Ohm-Milliammeter are employed. Quickly localizes circuit troubles. Overall performance of any set is easily checked by the All-Wave Oscillator and output meter portion of the Volt-Ohm-Milliammeter. Permits accurate circuit alignment and definitely locates causes of intermittent reception. Charts are supplied for direct capacity measurement; large calibration graphs supplied for the oscillator.

FOR ALL CIRCUITS

The 1181-A Tester is ultra-modern; it will handle all metal tube sets as also tube circuits. Meter scales read as follows: 0-15-75-150-750 Volts A.C. or D.C. at 1000 ohms per volt; 0-1.5-15-150 M.A.; D.C.; 0-15-150 M.A.; 0-1500-1.5 meg.-3 megohms. Oscillator has four ranges from 110 K.C. to 18 M.C. Auxiliary set Tester has 4, 5, 6, 7 prong and 8 prong octal sockets with jacks for all analyses.

COMPLETE MODEL 1181-A

The 1181-A Tester constitutes a compact complete radio service test laboratory. Size 16 1/2 x 4 1/2 x 7 1/2". Furnished, complete with batteries, adapters, accessories, and instructions. Ship. wt., 20 lbs.

B9932.

List, \$62.75.

YOUR PRICE

\$40.99



1125 UNIVERSAL AC-DC VOLT-OHM-MILLIAMMETER

Designed to measure both A.C. and D.C. voltages, currents, and resistance. Sensitive D'Arsonval meter. Has selector switch for choosing ranges: 0-15-75-150-750 V.A.C. and D.C.; 0-1.5-15-150 M.A. D.C.; 0-15-150 M.A. A.C.; 0-1500-1.5 meg.-3 megohms. Oscillator has four ranges from 110 K.C. to 18 M.C. Auxiliary set Tester has 4, 5, 6, 7 prong and 8 prong octal sockets with jacks for all analyses.



is 1000 ohms per volt for all ranges. Has chart for accurate capacity measurements. Ideal for use with Model 1165A Auxiliary Set Tester to make a complete free-point analyzer. Supplied complete with test leads, prods, batteries and instructions. Etched metal panel. Size, 11 1/4 x 5 1/4 inches. Ship. wt., 15 lbs.

\$21.56

B9933. List, \$33.00. NET.

V. T. VOLTMETER MODEL 1250

A laboratory Vacuum Tube Voltmeter for making accurate readings of AF, RF, and low A.C. or D.C. voltages. Used for determining signal voltages, gain per stage, AVC voltages, etc. Bridge circuit design uses 1-0-0, 1-10, and 1-100. Calibration is always correct. High resistance input draws negligible current from circuit under test. Ranges: 0-2.5-10-50. For 110 volt, 50-60 cycle A.C. With all necessary leads and tubes. Ship. wt., 13 lbs. Etched metal panel.

B9935. List, \$55.00.

YOUR PRICE

\$35.94



MODEL 1251

Similar to Model 1250, but ranges read 2-15-75-300 volts. B9936. List, \$71.50. NET.

\$46.72

CONDENSER TESTER

MODEL 1241

A precision instrument for the service engineer. Tests for shorts, opens and high resistance leakage; capacities of condensers are determined by sensitive microammeter. Shadow-type meter is used to obtain exact line voltage adjustments. All A.C. and D.C. voltages to 1000 volts are available for breakdown, open, and capacity tests. Checks all paper, mica, oil, and electrolytic condensers in 4 ranges: 0-0.1-0.1-2-2.0-2.0-30.0 mfd. Has "GOOD-BAD" scale for electrolytics. For 110 volt, 60 cycle, A.C. operation only. Complete with etched metal panel and leads. Ship. wt., 10 lbs. Metal case.

B9937. List, \$41.25.

YOUR PRICE

\$26.95



VIBRATOR TESTER

MODEL 1670 DELUXE

This new vibrator tester checks all automotive and home battery radio receiver vibrators under actual performance conditions. Tests are made under a 5000 ohm load as recommended by vibrator engineers. Three scale meter: 0-1 volt scale shows input voltage to vibrator; "GOOD-BAD" scale is used for output; scale marked 0-100 shows percent of output voltage as reflected by change in input voltage. Low-voltage permits needle to follow voltage fluctuations. In black wrinkle-finish metal case, 11 1/4 x 7 1/4", with leather handle. Panel is etched in red and silver on black background.

B9938. List, \$36.00. NET.

\$23.52



UNIVERSAL SELECTING ANALYZER

MODEL 1167-A

This instrument is ideal for making complete receiver analyses by either point-to-point or standard analysis method. Consists of Model 1165-A Auxiliary Set Tester and Model 1125 Universal Volt-Ohm-Milliammeter in a single oak case. Scales read as follows: 0-1.5-15-150-750 Volts, A.C. or D.C., at 1000 ohms per volt; 0-1.5-15-150 D.C. M.A.; 0-15-150 A.C. M.A.; 0-1500 ohms; 0-1.5-2 megohms. Charts are supplied for capacity measurements. With etched metal panel.

TESTS ALL METAL AND GLASS TUBE SETS

A plus-in cable brings all set circuits to the 5 sockets on the panel; tip jacks permit external use of meter terminals for complete point-to-point analysis. In oak case, 16 1/2 x 7 1/2 x 7 1/2". Complete with all accessories, leads and instructions. Ship. wt., 20 lbs.

B9934. List, \$41.25.

YOUR NET PRICE

\$26.95



PERPETUAL TESTER

MODEL 1180

A professional instrument designed to meet precision service standards. Combines a Model 1151 modified All-Wave Oscillator with large calibration graphs and a Model 1125 Universal Volt-Ohm-Milliammeter in a single oak carrying case. The oscillator generates a modulated or unmodulated signal for complete alignment of all receivers.

ALL-WAVE OSCILLATOR-VOLT-OHM-MILLIAMMETER COMBINED IN ONE CASE

The 1180 Perpetual Tester will check the overall performance of any receiver. Universal Meter reads: 0-15-75-150-750 Volts, A.C. or D.C.; 0-1.5-15-150 M.A. D.C.; 0-15-150 M.A. A.C.; 0-1500 ohms; 1.5-3 megohms. Selector switch on panel chooses range quickly. A zero adjustment knob for the ohmmeter, an A.C./D.C. switch and four tip jacks are also provided. The All-Wave Oscillator has four bands covering 110-500 K.C.; 500-3000 K.C.; 2,000-6,000 K.C. and 6,000-18,000 K.C. Complete shielding eliminates all radiation except through output jacks on oscillator. Controlled test signal obtained from self-contained zinc battery and 2-1/2 V. flashlight cells. Supplied with test prods, leads and instructions. Ship. wt., 20 lbs. Panels are etched metal.

B9935. List, \$48.50.

NET

\$32.34



FREE-POINT SET TESTER

MODEL 1166-A

For use with Model 1125 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 and instructions. Less case, Etched metal panel.

B9940. List, \$18.50.

NET

\$10.75

MODEL 1166-A IN CASE

The Model 1166-A Free-Point Auxiliary Set Tester as described above but in sturdy metal oak carrying case with handle. Makes a handy instrument. Etched metal panel. Ship. wt., 13 lbs.

B9924. List, \$20.25. NET.

\$13.23

B9938. List, \$36.00. NET.

28 MAKE ALLIED YOUR RADIO SUPPLY HEADQUARTERS

TRIOLETT

TESTING EQUIPMENT

Readrite RANGER

TRIPLETT TESTERS



MODEL 1503 MULTI-PURPOSE P.O.E. TUBE TESTER

- Nine Instruments in One
- Accurately Checks All Metal and Glass Tubes
- Tests Paper and Electrolytic Condensers
- Provides Full and Adequate Circuit Analysis

A new combination instrument of remarkable design. Provides complete test for all metal and glass tubes as well as circuit analysis. Tests all tubes for gain and output under actual operating conditions.

NINE INSTRUMENTS IN ONE

An ideal combination of nine separate instrument functions. Tests all tubes on large "GOOD-BAD" scale. Gives neon tests for tube shorts, leakage of paper and electrolytic condensers. Meter reads: 0-10-50-250-500-1000 volts A.C. and D.C.; 1000-10,000-100,000 ohms; 0-1-10 meg-ohms; -10 to +15 Db.; 0-10-50-250 M.A. D.C. Sensitivity is 1000 ohms per volt on D.C. and 500 ohms per volt on A.C. Housed in two-tone walnut case with sliding panel and removable cover. Size, 15 1/2" x 11 1/2" x 1 1/2". For counter or portable use. For 110 volts, 50-60 cycles.

B9926. List, \$77.00. NET. **\$50.30**

MODEL 1504 MULTI-PURPOSE TUBE TESTER

Similar to Model 1503 but with added provisions for circuit analysis. Ten instruments in one. Tubes are tested by power output method. Equipped with free-point tester, sockets and jacks in place of etched side panels as on Model 1503. For 110 volts, 50-60 cycles.

A.C. Wt. 26 lbs. B9927. List, \$93.50. NET. **\$61.08**

MODEL 1502 POWER OUTPUT TUBE TESTER

A Power Output-Emission tube tester of the latest design similar to the Model 1503 but without the Volt-Ohm-Milliammeter features. Tests all types of glass and metal tubes under actual operating conditions for gain, output, shorts, and leakage. Meter scale reads "GOOD-BAD." In walnut case as illustrated. For 110 volts, 50-60 cycles A.C.

B9925. List, \$60.50. **\$39.52**

MODEL 666 VOLT-OHM-MILLIAMMETER

A new and improved service instrument of precise design and superior construction. Built around a sensitive Microammeter movement. It will accurately indicate values of Volts, Ohms and Milliamperes. Compensated power-ohm rectifier provides measurement of A.C. Volt-Ohm meter scale in ranges: 0-10-50-250-500-1000 Volts D.C.; 0-10-50-250-500-1000 Volts A.C.; 0-1-10-50-250 M.A. D.C.; 0-200-250,000 Ohms. Higher resistance readings may be obtained with external battery. Meter sensitivity for both D.C. and A.C. voltages is 1000 Ohms per Volt. Panel carries three controls: A.C.-D.C. toggle switch, rotary meter-range switch. Complete with battery.

and zero ohms adjuster. Leads, alligator clips and instructions. Size 2 1/2" x 2 1/2" x 1 1/2". Wt. 4 lbs. B9928. List, \$22.50. **\$14.70**

B9929. MODEL 669. CARRYING CASE ONLY. Designed to offer complete protection for the Model 666 Volt-Ohm-Milliammeter for portable use. Sturdy construction; leather-covered. NET. **\$3.60**



MODEL 1200-A VOLT-OHM-MILLIAMMETER KIT 1000 OHMS PER VOLT

A complete kit of parts for Service Engineers who wish to "build-their-own" Triplet 1200-A Universal A.C.-D.C. Volt-Ohm-Milliammeter. Kit includes: new Twin meter with separate A.C. and D.C. movements of 2% accuracy; marked panel plate, all necessary series and shunt resistors, switches, and ohmmeter rheostats. 1000 volts A.C. and D.C. at 2000 ohms per volt on D.C.; 0-1-10-50-250 M.A.; 5-5000 ohms on "hark-up" scale; 1500 ohms -1.5-3 megohms. Dual meter measures 4 1/2" x 5 1/2" x 1 1/2". A truly ideal outfit for servicemen. With complete instructions and blue prints.

B9930. Complete kit of all necessary parts as described above. Shipg. wt. 10 lbs. **\$17.96**

MODEL 1200-C 5000 OHMS PER VOLT

A kit similar to Model 1200-A but incorporating a 5000 ohms per volt D.C. instrument. Also reads to 500 milliamperes and 1.5 megohms. An ideal unit for accurate measuring of all circuits including AVC and high resistance circuits without using batteries.

B9931. YOUR PRICE. **\$20.90**

NEW RANGER INSTRUMENTS

740 VOLT-OHM-MILLIAMMETER

A new precision Volt-Ohm-Milliammeter. Cross a Triplet Model 332 square precision meter with accuracy of 2% on D.C. and 5% on A.C. Readings are: 0-10-50-250-500-1000 Volts A.C. and D.C. at 1000 ohms per volt; 0-1-10-50-250 D.C. Milliamps; 0-200-250,000 ohms with "hark-up" scale for low range having mid-scale reading of 25 ohms. Ohmmeter scale can be made to read up to 2.5 megohms in 25 megohm steps. It also has compartment for test leads, tools, etc. Size, 6 7/8" x 4 1/2". Complete with test leads and instructions. **\$19.11**



640 FREE-POINT TESTER

This Free-Point Tester when used with the 740 Multi-Meter above makes a complete circuit analyzer. Permits rapid analysis of circuits without disturbing circuit wiring. Has 5 sockets with standard R.M.A. markings for servicing all sets with new or old type of tubes, whether glass, octal or metal. 20 automatic and 10 standard jacks bring all circuits to the panel. Extra connections may be added later if necessary. In sturdy black metal case, measuring 4 1/2" x 3 1/2". Has convenient handle, and compartment for accessories. Complete with instructions. **\$10.14**



MODEL 440 TUBE TESTER

Check all tubes speedily and accurately. A simple unit tube tester using a 2" Triplet meter accurate to 2%. Has a "GOOD-BAD" scale in color. Embodies the latest improvements. Built to stand large overloads. All of the R.M.A. standards for proper testing of tubes are included in the Model 440. Some of the salient features are: Direct-reading scale; tests metal and glass tubes; tests for leakage and shorts; meter is adequately protected against damage; uses A.C. meter for line voltage adjustments; requires only four simple operations in making complete tube tests. Metal case 6 1/2" x 4 1/2". Complete with tube data charts. For 110 Volts, 60 Cycles A.C. **\$18.52**



540 SIGNAL GENERATOR

Supplies signals in frequency bands from 110 to 20,000 kilocycles, all fundamentals. Plug-in coils are accurately calibrated. Guaranteed accuracy is less than 1% on broadcast frequencies; less than 2% on short waves. Provides either modulated or unmodulated signal. Stability of operation is assured by rigid mechanical construction and carefully designed circuits. Shielded against static or magnetic fields. Equipped with necessary straps, batteries and accessories. Fully-shielded; mounted in metal case 4 1/2" x 4 1/2". **\$19.11**



COMBINATION RANGER INSTRUMENTS

The Ranger units in the combinations shown below give you the instruments most necessary to your general servicing needs. They are offered to you at a substantial saving. Use them to complete your test equipment line and as portable laboratories on service calls. Available in combinations as shown. Furnished in portable electroplated, enameled metal cases, 11 1/2" x 7 1/2" x 4 1/2".

No.	Combinations	NET
B9916.	Model 640-740. Free-Point Tester and Multimeter.	\$27.78
B9919.	Model 440-740. Tube Tester and Multimeter.	36.16
B9917.	Model 540. Tube Tester and Signal Generator.	36.16
B9918.	Model 540-740. Signal Generator and Multimeter.	36.75



MODEL 735 D.C. VOLT-OHM-MILLIAMMETER

A complete, handy Volt-Ohm-Milliammeter of convenient small size may be easily carried in a coat pocket or in the tool kit. Meter is a Triplet D'Arsonval type instrument with 2% accuracy, with scale for reading 0-15-150-250 Volts D.C.; 0-1.5-15-150 M.A.; 5-1000-100,000 ohms. Housed in a sturdy case, measuring only 3 1/2" x 5 1/2" x 1 1/2". Has black and silver panel. Supplied with battery, leads and test clips. Molded case. **\$10.58**



B9919. List, \$18.00. NET. **\$10.58**

B9920. CARRYING CASE ONLY. For Model 735 Volt-Ohm-Milliammeter. Provides protection for meter when not in use or can be used as portable case. Sturdy construction; leather-covered. NET. **\$3.53**

Readrite

TEST EQUIPMENT



READRITE POINT-TO-POINT ANALYZER MODEL 720-A

Designed to test all parts of all radio circuits including modern metals as well as glass tube types. Measures voltages and currents accurately in any tube circuit. Resistance, capacitance, and reactance are also quickly measured. Break-in jacks in all tube circuits provide a means of obtaining all current and voltage measurements. Equipped with 8-conductor cable and plug with necessary adapters for plugging into any type tube socket. Has separate A.C. and D.C. meters.

TESTS METAL AND GLASS TUBE CIRCUITS

All meter ranges are available through a single pair of jacks. Selector switch quickly chooses proper scale on AC or DC meters. DC ranges are: 0-15-30-60-120 Volt, 0-15-150 M.A.; AC scales are: 0-10-25-150-750 Volts. Complete analysis may be made without removing the receiver chassis from the cabinet. In leatherette case, 11 1/2" x 8 1/2". Wt., 10 lbs. **B9900.** Complete with adapters, charts, and instructions. List, \$25.00.

YOUR PRICE **\$147⁰⁰**

FLEXIBLE OPERATION

Will make complete point-to-point tests between all tube socket terminals by means of break-in jacks. Permits complete circuit checking as well as standard tests of voltage, current, and continuity. Easy to operate; extremely portable.

B9901, MODEL 730-A. Similar to the Readrite 720-A described above. Has precision Triplet DC Voltmeter with 1000 ohms per volt sensitivity. Complete with all instructions. List, \$18.23. **YOUR NET PRICE**



READRITE ANALYZER MODEL 710-A

A new Readrite Standard Analyzer which completely and accurately tests all parts of all metal and glass tube receiver circuits. Meters may be connected into various parts of the circuit for testing plate, filament, grid, screen and line voltages and currents. A 1/2 volt battery is required for testing continuity and resistance of all resistors, chokes, transformers, etc., without removing the radio chassis from the cabinet. Charts are provided for use in testing conductors and for measuring resistances up to 100,000 ohms. Meters are accurate to within 5%. A reliable low-priced test instrument for the small service shop. Will check voltage, current, capacity and continuity in any set and for any of the tubes in the set, whether A.C. or battery type.

FOR ALL OCTAL AND GLASS TUBE CIRCUITS

Four sockets are provided to accommodate all metal and glass tubes. The analyzer cable is equipped with a small-size latch-type plug and adapters to fit all sets. The three meters provide the following readings: 0-20-60-200-600 Volts DC, 0-10-100-700 Volts AC, 0-1-1.50 M.A., DC. External jacks are provided for using these nine scales separately. 12 position selector switch converts the meters into various parts of circuit under test. Housed in a sturdy, attractive leatherette case, 11 1/2" x 7 1/4". Shug. wt., 10 lbs.

B9902. Complete with plug, cable, and instructions. List, \$27.50. **YOUR PRICE** **\$16¹⁷**

MODEL 712-A

Same as 710-A described above, but with 1000 ohms per volt Triplet d'Arsonval DC meter. Voltmeter test is made 8 probe Octal in leatherette case. Shipping wt., 11 lbs.

B9903. Complete with plug, cable, adapters and instructions. List, \$37.00. **YOUR PRICE** **\$21⁷⁶**



READRITE ALL-WAVE SIGNAL GENERATOR MODEL 554-A

A completely shielded All-Wave Oscillator. Tube-modulated and battery-operated. Plus-in coils are used to give complete coverage on five overlapping fundamental bands, from 100-20000 K.C. Designed to meet all present and future requirements. For additional frequency bands to meet future requirements, it is only necessary to add new coils. The extra-large scale permits accurate frequency settings.

5 BANDS: 100-20000 K.C.

Calibration curves are supplied for each of the five bands: 100-300 K.C.; 350-1050 K.C.; 940-3700 K.C.; 3300-16500 K.C.; 8800-20000 K.C. Two type 20 tubes are used—one as H.F. oscillator and one as audio oscillator. A modulation "on" and "off" switch is provided. A variable attenuator on front panel varies oscillator output over entire range. Circuits are thoroughly stabilized for dependable operation. Permits complete alignment of all types of radio receivers, furnishing all Short Wave, Broadcast, and Intermediate frequencies. Housed in a sturdy leatherette carrying case with removable hinged cover. Size, 12 1/2" x 5 1/2". Batteries are self-contained.

B9904. Complete with coils, tubes and batteries. List, \$24.00. **NET** **\$14¹¹**

MODEL 557 DIRECT-READING

Similar to Model 554-A above but with direct-reading dial. Accuracy of calibration is less than 1% on broadcast band and 2% on high frequency ranges. Completely shielded. Leatherette case, 12" x 6 1/4" x 5 1/2". Wt., 12 lbs. With tubes and batteries. **B9905.** List, \$31.50. **NET** **\$18.52**

NEW READRITE 430 TUBE TESTER

A brand new, inexpensive direct-reading Tube Tester. Quickly and accurately determines condition of all metal and glass tube types. Two meters are provided; one is a Triplet Model 221 meter with "GOOD-BAD" scale; the other is shadow-type AC meter for adjusting line voltage. Simple to operate for accurate tube condition tests. Applies actual lead directly to tube under test, after five sockets which handle all A, 6, 7 and the new 8 probe Octal tubes. Up-to-date in design and performance. Checks all tube types completely and accurately. Positively and efficiently indicates the presence of the slightest leakages and all shorts.

TESTS NEW METAL & ALL GLASS TUBES

The new Readrite 430 Tube Tester checks all Octal base metal tubes as well as every existing glass type. Shows condition of tube as "GOOD" or "BAD" on English-reading meter. Tests for shorts and leakage are read directly on meter. Meter is protected against damage. Controls are provided for adjusting probe line voltage, filament voltage and tube load. An additional control selects proper tube socket connections. Actual tube test is made by pressing a single button. The Readrite 430 Tube Tester is attractively housed in a quartered oak case with removable cover and sloping silver and black etched panel. Ideal for either portable or counter use. Shug. wt., 17 lbs. Increase your tube sales business with the new Readrite 430 Tube Tester which completely checks the condition of all metal and glass tubes. A highly dependable tube tester built to efficient standards and offered at an attractive low price.

MODEL 431

As described above, but with accurate Readrite "GOOD-BAD" English-reading meter in place of Triplet meter. Complete with cord and plug and instructions. For 110 volt, 60 cycle AC operation.

B9006. List, \$26.50. **YOUR PRICE** **\$15⁵⁸**

MODEL 430

The Readrite 430 direct-reading Tube Tester reads as described above, with Triplet Model 221 Meter. Complete in oak case with full instructions. For 110 volt, 60 cycle AC operation.

B9907. List, \$33.00. **YOUR PRICE** **\$19⁴⁰**



Service Instruments

MILLION TEST EQUIPMENT

MODEL TV TUBE TESTER AND MULTIMETER



Combines tube tester features together with the analyzer scales and functions most commonly used in servicing a radio receiver. Accurately tests the emission of all types of tubes including the new octal base glass and metal types. Neon bulb test shows all shorts and leaks up to 2 megohms between any elements with tube "Hot." All tube quality tests are made on a large square D'Arsonval meter with a brilliantly illuminated dial for easy reading. Has the following multimeter ranges: 0-20-300-500 volts DC or 5000 ohms per volt; 0-200 microamperes; 0-30-300-600 milliamperes DC; 0-9 amperes DC; 0-1.3 mfd.; 0-10-100 megohms; 0-15 megohms. All resistance measurements are made with 15 megohm maximum. Power circuit is fused for meter protection. For 110 Volts, 60 cycle, A.C. Ship. wt. 5 lbs.

B10375. NET

\$27.95

MODEL TM TUBE TESTER

A tube tester designed to test all tubes including metal, metal-glass and glass types. A large English-reading "GOOD-BAD" scale indicates the exact condition of the tubes under test. Contains all other features of the Model TV above except the voltage, current and resistance features. For 110 V. 60 cycles A.C. Ship. wt. 3 lbs.

B10376. NET

\$16.95

MODEL OM MULTIMETER—20,000 OHMS PER VOLT

B10377. Ranges: 0-3-30-300-900 volts DC at 20,000 ohms per volt, and AC at 1000 ohms per volt; 0-60-500 microamperes; 0-3-30-300-600 mA.; 0-10-100 ohms; 0-20 megohms; and power line scale in Ohm. Built-in test leads. Metal case. Wt. 6 lbs.

NET

\$29.95

MODEL VO MULTIMETER—5000 OHMS PER VOLT

B10378. Similar to Model OM, but does not have a 60 interference and 0-20 mc. range. Case is finished in hard-baked black enamel. Live rubber mounting feet. Sensitive D'Arsonval meter has special high torque movement. Wt. 5 lbs.

NET

\$19.95

MILLION TUBE AND CONDENSER TESTER



MODEL CP. This new emission type tube tester tests all tubes including the newest metal and glass octal base types. The exact condition of the tube under test is clearly indicated on the English-reading "GOOD-BAD" scale of the accurate D'Arsonval meter. Neon tube shows shorts and leakage up to 2 megohms. This same leakage test can be used through external leads for the measurement of resistance and for checking bridge and electrolytic condensers. For 110 Volts, 60 cycles, A.C. Ship. wt. 6 lbs.

B10361. NET

\$13.95

B10379. MODEL CM. Same as above, but neon bulb performs functions of meter used in Model CP. Jacks are provided for testing resistance, condenser leakage, etc. NET

\$9.95

NEW TOBE BRIDGE ANALYZER



Combines in a single low-priced instrument the necessary equipment for making every essential test of condensers and resistors. Determines resistance values between 1 ohm and 1 megohm, as well as values of capacitance between 10 mfd. and 100 mfd., and the resistance, power factor, leakage, and general condition of any electrolytic mica or paper condenser. All dials are direct-reading. It is not necessary to refer to any additional scale when any electrolytic mica or paper condenser is indicated by the built-in transformer. Contained in a rugged steel case with slipping panel on which all controls are grouped. Complete with tubes, leads.

and Instructions. For 110 Volt, 60 cycle AC only.

\$28.50

B10340. NET

NEW RTL COUNTER TUBE TESTER



A new "double-checking" tube tester. Uses the RTL tube-testing circuit. Grid and plate voltages operate to produce a meter reading affected simultaneously by ability of the grid to control plate current and ability of the cathode to furnish this current. Rejection results either from defective grid control or from spotty and worn-out cathodes. Tests all tubes now in use with ample provision for future types. Tube condition is indicated simultaneously on meter and flashing lights in glass cylinders which indicate "BAD," "WAK" and "GOOD." Has earphone test for noise. In grey crystalline enamel finished case with chrome steel panel. For 110 Volts, 60 cycle, A.C.

B10345. NET

\$52.92

RCA TEST EQUIPMENT

MODEL 151 CATHODE-RAY OSCILLOGRAPH



Uses new 913 one-inch cathode-ray tube. Gives you all the valuable features of the larger instruments at the lowest possible price. The many tests which can be made with this instrument make it a true X-ray for radio service work. Sensitivity, 1.75 volts RMS per inch deflection. The separate horizontal and vertical amplifiers each have a gain of 50 and are flat from 20-10,000 cycles. This oscilloscope will aid in aligning receivers visually, check distortion, gain and hum as well as perform other equally valuable tests. All controls are on nickel-silver front panel. In sturdy gray wrinkle-lacquered case, 13 1/2 x 10 1/2 x 7 1/2". For 110 Volts, 50-60 cycles, AC only. Complete with five tubes: 1—913, 1—885, 2—6C, and 1—6E.

B10168. YOUR NET PRICE.....

\$47.50

MODEL 150 ELECTRONIC SWEEP TEST OSCILLATOR

For use with an oscilloscope for visual alignment. Variable electronic sweep from 1 to 40 KC wide has sweep rate of 120 times per second. Large 4" dial is directly calibrated to cover entire range of 20 to 32,000 KC on fundamentals; indirectly lighted for elimination of parasitic. Dial has two vernier ratios, 2 to 1 and 5 to 1. R.F. output is 25 volts with smooth three-step attenuator. Gives 400 C.I.'S, modulated or unmodulated signal. Fully shielded.

Consult instructions.

B10169. YOUR NET PRICE.....

\$64.50

MODEL 4317 OUTPUT INDICATOR

A small efficient output indicator for use with an oscillator when aligning receivers. High sensitivity neon glow flame indicates resonance accurately. Has three built-in indicators, 1 ohms, 1 1/2 ohms, and 5 ohms. Works on any dynamic speaker; not affected by overload. Milled bakelite case 5 1/2 x 2 1/2 x 1 1/2". Wt., 1 lb.

B7. YOUR NET PRICE.....

\$4.00

PORTABLE STANDARD VOLT-OHMMEETER

A practical and convenient pocket-size Volt-Ohmmeter. Scale calibrated 0-10,000 ohms, and 0-300 volts D.C. Mounted in sturdy metal case 3 inches in diameter; 1 1/2 inches deep. Equipped with 3 1/2 inch test leads. Includes self-contained flashlight cells. Switch is provided for rapid changeover from volts to ohms or vice versa.

B2894. YOUR PRICE.....

\$2.50

PORTABLE SIMPLEX VOLT-OHMMEETER

An exceptionally compact, pocket-size test unit. Scale marked 0-3, 0-20, 0-200 volts D.C., and 0-10,000 ohms. Attractive black finished bakelite case measures 1 3/4 x 3 1/2". Has pin jacks for quick selection of desired scale. Self-contained batteries included. Supplied with 20 inch polarized test-leads, and instructions.

B2892. YOUR PRICE.....

\$3.23

PORTABLE PRECISION VOLT-OHMMEETER

A pocket-size volt-ohmmeter. Moving coil meter has accuracy of 2%. Ranges: 0-5-50-500 volts DC at 1000 ohms per volt; 0-500,000 ohms. Ohmmeter has zero adjustment. In black bakelite case 3 1/2 x 2 1/2". Has 20" polarized test leads.

B2893. YOUR PRICE.....

\$7.79

NEW MODEL 363 UNIVERSAL AC-DC V. O. M.

B2891. Universal AC-DC Volt-Ohm-Milliammeter. Ranges: 0-15-150-500 volts and 0-15 ma. AC and DC; 0-20-200-100,000 ohms, with built-in power supply which works from 110 V., A.C. or D.C.; 0-1-20 mfd. With leads and instructions. NET

\$7.94

ACCURATE SOLAR CAPACITY ANALYZER

A sensational new instrument for quickly and accurately determining the worth and capacity of any condenser between .001 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, for measuring resistance. Checks all types of condensers. No head-phones, meters, etc., are required; compactly built in sturdy, attractive cabinet, with handles for carrying. Measures 9 1/2 x 7 1/2 x 4 1/2". Requires 1-1V and 1-6E5 (not supplied). Ship. wt., 9 lbs.

B10186. Model CB-1-60. For 110 V. 60 cycle.

\$18.82

NET

B10187. Model CB-2-10. For 110-220 V. 25-60 cycle.

\$23.52

NET

READRITE METERS SHUNTS • RECTIFIERS

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. Rectifier 2 1/2" mounting hole. Easy reading white dial, black lettering and full nickel-plated metal shell. Clamp included to hold meter tight against panel. Screw connections with blinding nuts on rear, 2 1/4" diameter. Ready convertible for outside flange mounting with use of No. 65A Flange Ring. Zero adjustment type has screw on meter face to control dial position of needle.



Standard Type



Zero Adjustment

D. C. VOLTMETERS

Without Zero Adjustment			With Zero Adjustment		
No.	Net Each	Resist Ohms	Volts	No.	Net Each
7350	30	0-1	7375		
7351	175	0-3	7376		
7352	550	3-4-3	7377		
7353	410	0-5	7378		
7354	550	0-6	7379		
7355	850	0-8	7380		
7356	1475	0-10	7381		
7357	2914	0-15	7382		
7358	1625	0-25	7383		
7359	\$1.62	7220	0-25	7384	\$1.76
7358	55	3250	0-50	7385	73
7361	1.31	15400	0-50	7386	2.06
7362	.88	6500	0-100	7387	1.63
7363	1.31	30888	0-100	7388	2.06
7364	1.02	9750	0-150	7389	1.18
7365	1.31	46220	0-150	7390	2.06
7366	1.31	92640	0-300	7391	2.06
7367	2.65	154400	0-500	7392	2.79
7368	3.23	231600	0-7-0	7393	3.38
7369	1.32	16200	0-6-160	7394	1.47
7370	2.65	92640	0-60-300	7395	2.79
7371	3.23	180000	0-29-60	7396	3.38

MODEL 55 A. C. METERS

Double vane repulsion type. Clamp-on shunt mounting. Accurate within 1%.
Volts **Milliammeters**
 No. Volts Each No. M. A. Each

7450	0-4	\$1.62	7462-0-35		
7451	0-6	1.62	7463-0-50		
7452	0-10	1.62	7464-0-100		\$1.62
7453	0-15	1.62	7465-0-250		
7454	0-150	2.65	7466-0-500		
7455	0-300	3.23			
7456	0-600	3.82			
7457	0-750	4.56			
7458-0-10-140	2.65				

Ammeters
 No. M. A. Each

7468	0-1	\$1.62
7469	0-3	1.62
7470	0-5	1.62
7471	0-10	1.62
7472	0-50	\$2.28

Plug in Line Type
 7459 0-150 \$1.31

**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 4 1/2" black enameled metal case. Has tip-jacks for leads.
B7348. NET \$4.85

MODEL 515 OUTPUT METER
 Same as Model 575 above but with Triplett meter. Has range of 2.5-5 volts. 750 ohms resistance per volt.
B7349. List. \$16.50. NET \$9.70

**RESISTANCE METER
MODEL 501**
 Direct reading: 0-10,000 ohms. 0-1 1/2 volts. Measures resistance and checks continuity in radio and electrical circuits. Uses 3 small flashlight cells.
B7341. NET \$88c

RESISTORS
 No. 503 Resistor. 1150 ohms resistance to increase No. 501 ohmmeter reading to 1000 ohms when used with a 2 1/2 V. battery.
B7343. List. \$1.00. NET \$59c
 No. 504 Resistor. 2,200 ohms, center-tapped, for use with 4 1/2 V. "B" to increase reading of No. 501 ohmmeter to 100,000 ohms.
B7344. With tip jacks. NET \$1.32

D. C. MILLIAMMETERS

Without Zero Adjustment			With Zero Adjustment		
No.	Net Each	Resist Ohms	M. A.	No.	Net Each
7400	\$1.32	2160	0-5	7414	\$1.47
7401	1.18	700	0-10	7415	1.32
7402	.59	295	0-15	7416	.73
7403	.59	85	0-25	7417	.73
7404	.29	0	0-100	7418	73c
7405	59c	5.5	0-100	7419	73c
7406	59c	3.3	0-150	7420	73c
7407	59c	1.9	0-200	7421	73c
7408	59c	.8	0-400	7422	73c
7409	59c	.4	0-400	7423	73c
7410	1.18	175-30-100	0-100	7424	1.32
7411	1.18	305-240-15-150	0-150	7425	1.32

D. C. AMMETERS

No.	Net Each	Type	Amps.	No.	Net Each
7428	380	0-1	7438		
7429	336	0-3	7439		
7430	381	0-5	7440		
7431	338	0-10	7441		
7427	50.88	382	0-25	7437	51.83
7426	31.47	383	0-50	7439	1.62
7432	101	1-4-1	7442		
7433	303	3-0-3	7443		
7434	606	6-0-6	7444		
7435	110	10-0-10	7445		
7436	220	20-0-20	7446		
7448	\$1.18	330	30-30	7447	\$1.32

65A FLANGE RING

Converts any type Readrite Model 55 meter for flange mounting. 2 1/2" flange diameter. Easy to mount. Has black finish to match bakelite panels. Complete with mounting screws and nuts.
B7473. List. 18c. YOUR PRICE \$9c



INDUCTION AMMETER

Indicates automobile starter current. Simply place under over starter cable to read current flow. Alter back has cable-locating groove. Reads 400-0-400 amp. D.C.
B7409. Model 444. List. \$3.00. NET \$1.76



RADIO CITY SHUNTS

Individually calibrated to an accuracy of ±1%. Ideal for use with milliammeters such as those having 0-1 scales for increasing their ranges. Capacity of each unit about 1 watt. Negligible temperature coefficient. Size 2 1/2" x 1 1/2".
27 OHMS METER RESISTANCE
 No. Milliamp. No. Milliamp.
 B2355 5 B2359 100
 B2356 10 B2360 250
 B2357 25 B2361 500
 B2358 50 B2362 1000
30 OHMS METER RESISTANCE
 B2364 5 B2368 100
 B2365 10 B2369 250
 B2366 25 B2370 500
 B2367 50 B2371 1000
50 OHMS METER RESISTANCE
 B2373 5 B2377 100
 B2374 10 B2378 250
 B2375 25 B2379 500
 B2376 50 B2380 1000
 List. Each. \$1.40. **82c**
 NET. EACH

TUNING METERS



For accurate visual tuning of modern A. V. C. sets. High resistance milliammeters in neat, easy-to-mount cases. Indicate exact tuning resonance when needle swings to its farthest point. Four types are available, each with full scale deflections as listed. Model 121 is shadow-tuning type. Supplied less escutcheons.

TM-121		TM-103		TM-102		TM-108	
No.	M. A.	No.	M. A.	No.	M. A.	No.	M. A.
B7475	0-5	B7485	0-5	B7476	0-7	B7486	0-5
B7477	0-10	B7487	0-10	B7478	0-10	B7488	0-10
B7479	0-15	B7489	0-15				

TM-103
 Front or bottom illuminated type with opaque dial.

TM-102
 Rear lighting type, with translucent dial.

TM-108
 Shadow grid type; indicates resonance at narrowest point.

Choice of any type above, less escutcheon. List, \$1.50. NET. EACH **88c**

ESCUICHEONS
 B7495. For TM-108, 121.
 B7496. For TM-102, 103.
 List. 30c. NET EACH **18c**

FULL-WAVE COPPER-OXIDE RECTIFIERS

5 M. A. CAPACITY
 For converting moving-coil D.C. meters with less than 5 milliamperes drain, to A.C. instruments. Insulated flexible wire leads allow mounting inside meter, 3 1/2" square. Mounting rivets, 5/16". Comes complete with wiring diagram and full instructions.
B2500. YOUR PRICE \$2.15

20 M. A. CAPACITY
 Makes A.C. meters out of D.C. instruments drawing not more than 20 milliamperes. Accurate on all frequencies to 5 kc. Will not need re-calibration. Ideal for capacity measurements. 6-32 bolt, insulated from rectifier, for convenient mounting. 3/16" round, 3 1/2" long.
B2501. YOUR PRICE \$1.88

50 M. A. CAPACITY
 For heavy-duty service in circuits drawing up to 50 M. A. D.C. Handles A.C. of all frequencies to 5000. Maximum A.C. volts: 600. Use to rectify 110 Volts A.C. for excitation of D.C. dynamic speakers with 2250 to 3500 ohm fields.
B2502. YOUR PRICE \$1.75

CRS COPPER OXIDE RECTIFIERS
 Especially small full-wave rectifier for converting D.C. meters for A.C. use. Input 10 volts 115Hz; output 20 M. A. Ideal for analyzers, test panels, etc.
B2503. NET EACH \$2.06

Quality METERS TRIPLETT • BEEDE

TRIPLETT PRECISION METERS



Model 321 D.C. Model 331 A.C.

These accurate, dependable meters are available in a variety of styles, sizes and ranges. Ideal for service instruments, transmitters, diathermy in physics, or any equipment requiring high-grade indicating meters. The ratchet D'Arsonval movement used assures accuracy within 2%. The extra-light moving-coil carrying the balanced aluminum needle moves over sapphire jewel bearings. Scales are white-anodized metal. Equipped with zero adjusters. In dustproof cases, A.C. meters are movable iron repulsion type. A high-grade attractively-priced line.



Model 324 D.C. Model 334 A.C.



METER DIMENSIONS

Model	Flange	Mtg.	Scale	Case
321	3 1/4"	Flush	2 3/4"	Bakelite
324	3 1/4"	Projection	2 3/4"	Bakelite
223	3 1/4"	Clamp on	2 3/4"	Metal
331	2 1/2"	Flush	1 7/8"	Bakelite
334	3 1/4"	Projection	2 3/4"	Bakelite
233	2 1/2"	Clamp on	1 7/8"	Metal
323	2 1/2"	Flush	1 3/4"	Bakelite

D. C. MILLIAMMETERS

3 1/2 Inch		2 Inch	
Model	Net	Model	Net
B8550	\$4.57	B8678	\$3.75
B8551		B8679	
B8562	3.75	B8680	2.94
B8563		B8681	
B8564		B8682	
B8565		B8683	
B8566	3.75	B8684	2.94
B8567		B8685	
B8568		B8686	
B8569		B8687	
B8570	3.75	B8688	2.94
B8571		B8689	

D. C. AMMETERS

3 1/2 Inch		2 Inch	
Model	Net	Model	Net
B8752	\$3.75	B8773	\$2.94
B8753		B8774	
B8754		B8775	
B8755		B8776	
B8756	3.75	B8777	2.94
B8757		B8778	

A. C. MILLIAMMETERS

331	334	Net	M. A.	233	Net
B8895	B8813	3.75	0-10	B8821	2.94
B8896	B8814		0-15	B8822	
B8897	B8815		0-25	B8823	
B8898	B8816		0-50	B8824	
B8899	B8817	3.75	0-100	B8825	2.94
B8900	B8818		0-250	B8826	
B8901	B8819		0-500	B8827	

A. C. VOLTMETERS

331	334	Net	Volts	233	Net
B8830	B8842	3.75	0-5	B8854	2.94
B8831	B8843		0-10	B8855	
B8832	B8844		0-15	B8856	
B8833	B8845		0-25	B8857	
B8834	B8846	3.75	0-50	B8858	2.94
B8835	B8847		0-100	B8859	
B8836	B8848	4.55	0-150	B8860	3.75
B8837	B8849	5.39	0-300	B8861	4.73
B8838	B8850	57.18	0-500	B8862	56.53
B8839	B8851	6.33	0-750	B8863	7.53
B8840	B8852	10.45	0-1000	B8864	5.63

A. C. AMMETERS

331	334	Net	Amps.	233	Net
B8866	B8871	3.75	0-1	B8881	2.94
B8867	B8872		0-2	B8882	
B8868	B8873		0-3	B8883	
B8869	B8874		0-5	B8884	
B8870	B8875	4.55	0-10	B8885	3.75
B8871	B8876	5.55	0-25	B8886	4.73
B8872	B8877	5.58	0-50	B8887	5.63
B8873	B8878	6.15	0-75	B8888	6.53

D. C. VOLTMETERS (125 Ohms Per Volt)

321	324	Net	Volts	223	Net
B8691	B8708	3.75	0-10	B8711	2.94
B8692	B8709		0-15	B8712	
B8693	B8710		0-25	B8713	
B8694	B8711		0-50	B8714	
B8695	B8712	3.75	0-100	B8715	2.94
B8696	B8713		0-150	B8716	
B8697	B8714	4.55	0-300	B8717	2.94
B8698	B8715	6.34	0-500	B8718	4.66
B8699	B8716	7.18	0-750	B8719	6.04
B8700	B8717	8.02	0-1000	B8720	7.42

D. C. VOLTMETERS (1000 Ohms Per Volt)

8722	8732	Net	Volts	8742	Net
B8722	B8732	5.39	0-5	B8742	4.24
B8723	B8733		0-10	B8743	
B8724	B8734		0-25	B8744	
B8725	B8735		0-50	B8745	
B8726	B8736	5.71	0-100	B8746	5.66
B8727	B8737	6.18	0-150	B8747	5.96
B8728	B8738	6.53	0-300	B8748	5.71
B8729	B8739	7.18	0-500	B8749	6.54
B8730	B8740	8.02	0-750	B8750	7.83
B8731	B8741	10.45	0-1000	B8751	9.31

TRIPLETT FOUNDATION METERS

1000 OHMS PER VOLT

MODEL 321
This high-quality 3 1/2" precision meter with its associated multipliers and shunts affords the service engineer or experimenter the opportunity to build an extremely accurate multi-scale volt-ohm-milliammeter at low cost. The basic instrument is a Triplett Model 321 0.1 milliammeter. Internal resistance 100 ohms. Dial has five D.C. scales: 0-10-50-250-500 volts; 0-10-50-250 milliamperes; and 0-10-100 ohms. A hair-line needle indicator simplifies readings. Complete with wiring diagram.
B8946. List, \$7.50. NET.....\$4.90

MODEL 321
This giant-sized 5 1/4" meter has an extended scale length of 3". Its unusual size and striking appearance make it an impressive instrument for the serviceman's test bench. Large-sized numerals and long needle pointer. Basic movement gives a full scale reading of 1 M.A. at 100 Ballistics. The large white-enamelled dial scale has five direct reading D.C. scales: 0-10-50-250-500 volts; 0-10-50-250 milliamperes; and 0-100-1000 ohms. Complete with wiring diagram.
B8947. YOUR PRICE.....\$6.86

TRIPLETT MODEL 326 D.C. MILLIAMMETERS



Precision built meters in a new modern style. Square molded bakelite cases, flush mounting type. Require 2 1/2" diam. mounting hole. Overall size, 2 1/2" x 2 1/2". Scale length 2 1/2". Precision construction; genuine sapphire jewel bearings. D'Arsonval movement, extra light moving coil, etc. Accuracy within 2%.

No.	M. A.	Approx. Res.	NET
B8785	0-1	33.	\$4.57
B8786	0-5	8.5	
B8787	0-10	3.1	
B8788	0-25	1.2	\$3.75
B8789	0-50	.6	
B8790	0-100	.3	
B8791	0-150	.2	
B8792	0-200	.15	\$3.75
B8793	0-250	.12	
B8794	0-300	.1	
B8795	0-400	.08	\$3.75
B8796	0-500	.08	

BEED MILLIAMMETERS MODEL 701



Highly accurate and compact D'Arsonval type meters. Moving coil design. Complete ruggedness with accuracy within 2%. Have zero adjustment, sapphire bearings, aluminum repulsion type. Flush mounting, 3/4" dia. In metal case.

No.	M. A.	List	NET
B2300	0-1	\$6.00	\$3.53
B2301	0-10	4.75	2.79
B2302	0-100	4.75	2.79
B2303	0-200	4.75	2.79
B2304	1-0-1	6.00	3.53

VOLT-OHM-MILLIAMMETERS

Multi-scale meters for use as foundation units. Build your own point-to-point analyzer or test panel using one of these meters as the Volt-ohm-milliammeter. Scale ranges provided are those most generally used in service and test instruments.

Meter only. Reads 0-1 M.A.; 0-50,000 ohms; 0-15-30-300 D.C. volts.
\$3.53

Meter only. Reads 0-1 M.A.; 0-2000 ohms; 0-5-250-750 D.C. volts.
\$3.53

Write for prices for other Beede meters.

METER REPAIR SERVICE



Whether your meter is burned out or damaged mechanically, our laboratory-standard meter service will get it back into good condition. All repairs are made by trained technicians and are calibrated against standards of the highest accuracy. Inexpensive service that amazes servicemen and experimental laboratories need. Prices shown below are representative. Send cash with order. For prices on services not shown, send meter prepaid for inspection.

SERVICE A: For 3/4" meters with burned-out or open armatures. We dismantle the entire moving element, rewind or replace armature, regulate and shunt 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. Metal cases, if badly scratched, are carefully refinished. All Bakelite cases are buffed and polished.
\$3.75

SERVICE B: For sluggish or erratic meters. Same as Service A except that armature and hair-springs are not replaced.
\$2.95

SERVICE C: If glass is cracked, scratched or broken, we will replace it for an additional charge of.....
90c

Prices above cover only replacement parts specified in the detailed price lists, such as pointers, springs, zero adjusters, case, etc., will be supplied at the lowest possible prices.

RESISTORS AND SHUNTS

With the kits listed below, you can extend the range of the two meters above to read 0-1, 0-50, 0-500, 0-500 Volts D.C., at 1000 ohms per volt; 0-10, 0-50, 0-250 M.A.; and 0-100,000 ohms.
B8942. MODEL 10: Resistors mounted on bakelite for 0-10, 0-50, 0-250 M.A. NET.....\$4.90
B8943. MODEL 11: Shunt mounted on bakelite for 0-1, 0-50, 0-250 M.A. NET.....1.79
B8944. MODEL 12: Current limiting resistor for 100,000 ohms. NET......65

TEST EQUIPMENT Adapters-Plugs

NEW BEEDE FOUNDATION METERS



These new Beede Foundation Meter Kits are ideal for building an efficient Volt-Ohm-Milliammeter at an attractively low price. An invaluable instrument for the Serviceman, Amateur or Experimenter. The black bakelite fan-type case is 4 1/2" long and 3 1/2" high and mounts in a 2 1/2" diameter round hole. The large figures on the long 3 1/2" scale are indicated by a special knife-edge pointer. The 2% accuracy D'Arsonval movement is carried on sapphire jewel bearings.



1000 OHMS PER VOLT
You can build an efficient Volt-Ohm-Milliammeter around this high quality Beede Foundation Meter. It employs a sensitive 9-1 MA movement, 50 ohms internal resistance. Scales are: 0-10-20-50-100-250-500 volts D.C., 0-1,000 ohms-1 megohm; and 0-10-100 milliamperes D.C. These scales provide quick and accurate testing. (See multiplier resistor kit and shunt resistors below.)

\$4.41

B2330. NET

MULTIPLIER RESISTOR KIT
Consists of high quality semi-precision resistors for use with the above meter to give the indicated scale readings. Resistors are accurate to within 5%. With diagram.

\$1.59

B2331. Resistor Kit. NET

SHUNT RESISTORS
B2374. To obtain reading of 0-10 M.A. on above meter.
B2377. To obtain reading of 0-100 M.A. on above meter.
NET. EACH **\$2c**

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 microampere movement; internal resistance, 450 ohms. Scales are: 0-10-50-100-500-1,000 volts D.C., 0-100-100,000 ohms, 0-1-10 megohms, and 0-10-100 milliamperes D.C. Use resistors and shunts below to obtain indicated readings. With wiring diagram.

\$5.88

MULTIPLIER RESISTOR KIT
Consists of 6 precision wire-wound resistors, 7 Commercial Carbon Semi-Precision resistors, and 1 Yaxley wire-wound potentiometer for ohm and volt scales. For use with 5,000 ohm per volt meter above. Accuracy within 5%.

\$6.15

B2320. NET

SHUNT RESISTORS
Three accurately calibrated wire-wound precision resistors. For adding 0-10-100 M.A. ranges to meter listed above. Accuracy of calibration is 1%.

\$2.21

B2321. NET

20,000 OHMS PER VOLT METER KIT

Now you can build a really sensitive voltmeter at an extremely low price. Uses a 50 microampere basic movement that will give you a sensitivity of 20,000 ohms per volt when used as a multi-range D.C. voltmeter. Internal resistance is 1575 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 M.A. D.C. These ranges are obtained when the meter is used with the resistors and shunts listed at the right. With diagram.

\$10.58

B2333. NET

MULTIPLIER RESISTOR KIT

Consists of 7 precision and 7 Semi-Precision resistors, and 1 Yaxley potentiometer for ohm and volt scales. Calibrated within 5%; for use with 5,000 ohm per volt meter. Accuracy within 5%.

\$6.90

B2322. NET

SHUNT RESISTORS
Three wire-wound precision resistors for adding 0-10-100 M.A. ranges to the 20,000 ohm per volt meter. Accuracy 1%.

\$2.21

B2323. NET

BUD ANALYZER PLUG AND ADAPTERS



This new molded bakelite analyzer plug with its associated small-hole adapter kit makes it possible for you to bring your present analyzer up-to-date at very low cost. Now you can test all the latest metal and glass tube circuits without an unnecessary assortment of extra adapters.

ANALYZER KIT COMPLETE

Consists of 1-8 prong lock-in adapter plug with a 5 foot 7 wire cable and a dual grid stud; 1-8 prong cable plug and socket, and 5 adapters.

\$5.88

B1680. ANALYZER KIT ONLY. Small 8 prong octal base plug which plugs into adapters.

Has dual grid studs for small and large grid clips. List, \$1.75.

\$1.03

B1681. Plug with 8 prong wire cable attached and 8 prong panel plug, with grid lead attached. You also test matches. List, \$5.00.

\$2.94

TUBE CHECKER ADAPTERS FOR METAL TUBES

These new metal tube adapters make it possible for you to check every one of the popular new metal and metal glass tube types in your present tube checker. It is not necessary to make any change in the wiring or alter your checker in any way.

Cat. No.	To Test	In Socket	Adapter Base
B1681	6A8 6L7	6A7	7S
B1686	6F5	7S or 8S	6
B1687	6H6	7S or 8S	6
B1682	6C5	3F or 7S	6

Cat. No.	To Test	In Socket	Adapter Base
B1677	5Z4 5W4	150	4
B1688	5Y3	80	4
B1689	25Z6 6N5	25Z6 84 or 5Z4	5
B1678	6J7 6K7 6P9	77 or 6C6 78 or 6136 41 or 42	4
B1680	6L6 6C7 6R7 25A8 6D5	41 or 42 41 or 42 85 43 41 or 42	5

44c

YOUR PRICE, EACH ADAPTER



THORDARSON OSCILLOSCOPE KIT

This well-designed oscilloscope solves the service problem for the modern Service Engineer. Built around the new Type 913 1 inch cathode ray tube, it also uses 1-1V, 2-6T, 1-8K5, and 1-6K5. Complete with both horizontal and vertical amplifier, 60 cycle sweep, and a variable frequency linear sweep circuit. A unit of this type is absolutely necessary for the proper setting and alignment of modern high fidelity and all-wave receivers. Used in conjunction with a standard service oscillator, this instrument analyzes hum, audio distortion, sensitivity and alignment in both receivers and transmitters.

COMPLETE ESSENTIAL KIT

Consists of drilled chassis and sub-assembly panel, etched front panel, 6 1/2" x 15 1/2" x 1 1/2" black crackle-finished cover, funnel-shaped shield and mounting panel for the 913 tube, and special power transformer and filter choke. Comes complete with full pictorial and schematic diagrams as well as convenient point-to-point wiring instructions.

\$7.49

B11097. NET

COMPLETE PARTS KIT

Everything needed for the complete kit. All switches, condensers, resistors, potentiometers, and all miscellaneous hardware, down to the last screw. Does not include essential kit above or tubes. Send for parts list.

\$16.25

B11098. NET

LENS ONLY

2" magnifying lens with retainer ring. Fits tube shield and panel opening.

\$1.18

ANALYZER ADAPTERS FOR METAL TUBES

Extend the tests possible by using these new metal tube adapters. For use with 7S latch plug.

PLUG ADAPTERS
B1669. For testing in all metal tube sockets except 5Z4, 7S latch-lock top, octal base. **YOUR PRICE** **59c**

B1622. For testing in socket of 5Z4, 5Y3, or 5W4. 7S latch-lock plug, octal base. **YOUR PRICE** **59c**

BLOCKED SOCKET ADAPTERS

For testing circuits in metal or octal glass tube sockets which do not have an eight-hole punched through. All adapters have 7S latch-lock tops with bases as listed below.

B1620. 7 Prong Octal. List, \$1.00.
B1622. 5 (6F) Octal. **NET EACH** **59c**

B1623. 5 (6F5) Octal. **59c**

ANALYZER ADAPTERS

B1676. For all octal base tubes except 5Z4, 5Y3 and 5W4. 8 hole octal top. **YOUR PRICE** **59c**

B1677. For testing 5Z4, 5Y3 or 5W4 metal tube circuits. 8 hole octal top, 4 prong base. **YOUR PRICE** **44c**

ANALYZER CABLE

8 and 9 conductor cables of stranded tin-plated copper wire, each with overall and color-coded braid. Cut/braid overall.

B1670. 8 CONDUCTOR. 2 No. 16 and 6 No. 20 WIRES. PER FOOT **9c**

B1671. 9 CONDUCTOR. 2 No. 16 and 7 No. 20 WIRES. PER FOOT **10c**

Modernizer ADAPTERS

SPEAKER-HEADPHONE MIKE & PHONO ADAPTERS



FOR SPEAKER AND HEADPHONE SWITCHING

Connects headphones to set; has switch arranged to cut off speaker when phones are used. Adapters fit under power tubes.

- SINGLE OUTPUT**
 B5537, 4-Prong Adapter, NET EACH
 B5538, 5-Prong Adapter, NET EACH
 B5539, 6-Prong Adapter, NET EACH
 B5540, For 12 Tube, NET EACH
 B5544, 8-Prong for 6F6, 6L6, NET EACH

- PUSH-PULL OUTPUT**
 B5541, 4-Prong Adapter, NET EACH
 B5542, 5-Prong Adapter, NET EACH
 B5543, 6-Prong Adapter, NET EACH
 B5544, 8-Prong Adapter, NET EACH

FOR EXTRA SPEAKERS

- TYPE II G.** Connects extra speakers to sets using push-pull 4 prong output tubes; no wiring change.
B260B, PER PAIR 31c
- TYPE III.** Connects extra speakers to any set using two 5 prong Pentode power output tubes, without wiring change.
B2609, PER PAIR 37c
- TYPE I99.** To connect extra speakers to any set using one 5 prong Pentode tube, without wiring change.
B2610, NET 35c

FOR MIKE & PHONO

- Connects phonograph or microphone to set. Has special radio connections.
B5505, 5 Prong, NET EACH 54c
B5506, 6 Prong, NET EACH 54c
B5507, 7 Prong, NET EACH 54c
B5508, 8 Prong, NET EACH 54c

FOR EARPHONES

- To connect headphones to any set. Ideal for DX and hand-cranking use. May also be used as extra speaker adapter in sets having one power tube.
B2611, 5 Prong, NET EACH 44c
B2612, 6 Prong, NET EACH 44c

UNIVERSAL ADAPTER

- All tube terminals are brought out quick easy connection.
B5510, 4 prong, NET EACH 12c
B5511, 5 prong, NET EACH 12c
B5512, 6 prong, NET EACH 12c
B5513, 7S prong, NET EACH 17c
B5514, 8 prong, NET EACH 17c

GRID CAP PHONO ADAPTER

- Connects phonograph pick-up to grid cap of tube. Has 2 contacts into which the pick-up plate fits is connected. Ideal for magnetic or B5546. For Glass Tubes. B5547. For Metal Tubes. YOUR PRICE EACH 28c

ALDEN MULTI-ADAPTER

- TYPE 550XVLA.** This universal adapter tests over 120 types of tubes with your present tester. No leads, wires, or jacks. Single toggle switch makes all tests. Has 4 sockets for all tubes and 6 prong ring at bottom to fit tester. All meters and tubes are fully protected by resistance network.
B1756. YOUR PRICE 294c

- B1757. TYPE 554SLG.** This associate adapter must be used on the bottom of the 550XVLA adapter if your tube tester has no filament voltage control. 5 hole top, 4 prong bottom, with grid lead.
YOUR PRICE 44c

MODERNIZER ADAPTERS

Make bigger profits—install new type tubes in old sets! No change in sockets or wiring—just insert adapter in tube socket and place new type tube in adapter. Sets using tubes listed below may be quickly modernized. New type glass and metal tubes increase sensitivity, power, stability and selectivity. Cash in on set-modernization.

ADAPTERS FOR NEW METAL TUBES

- B1728.** For replacing the glass type 2523 tube with the new metal 2526. Better results can be obtained by this change.
44c
- B1735.** For using the metal type 6F5 tube in place of the triode section only of the glass type 75 tube. NET.
44c
- B1727.** Replace old 61 or 62A tubes with new 6X5 metal rectifier. Particularly suitable for auto radios because of mechanical strength and complete shielding.
44c

ADAPTERS FOR NEW GLASS TUBES

- B1739.** For replacing 24 with 57; 25 or 51 with 55; 37 with 77; 50A4 with 78.
NET 29c
- B1740.** For replacing 45 with 47. 5 hole top, 4 prong base. NET.
29c
- B1742.** Replaces 80 with 80Y, 82, 4 hole top, base. Has suitable contacts connected in series with filament for 2.5 volts. NET.
44c
- B1743.** Use this adapter to replace type 45 tube with type 50 seven prong power tube. Increases power; decreases noise.
NET 44c

- B1747.** For replacing Kellogg 401 with 27 tube. 5 hole top; 4 prong base. Contains resistance to cut filament to required 2.5 volts. NET.
58c
- B1748.** For using 50 tube in place of Kellogg type 401 overhead heaters. Type 50 increases sensitivity and all-around efficiency at lower cost.
NET 58c
- B1749.** For using 2A5 Pentode in place of Kellogg 402 overhead heater type. New 2A5 gives more power at less cost than older types. NET.
58c

- B1730.** Use 6A7 in place of 77 and 6A3 glass types; 6A7 in place of 78 and 610; 9X6, 6L6, or 6X5 in place of type 41 and 42 glass tubes; 2A5 in place of 43.
44c
- NET 44c**
- B1733.** Use the new metal 6C5 or 6A5 tube in place of the type 70 or 37 tube.
44c
- B1731.** For using the metal type 6A8 tube in place of the glass type 6A7 tube. As tube testing adapter it tests the 6A5 in the 6A7 socket. NET.
44c

- B1744.** Replaces 45 with 6 prong 2A5 Pentode. Has special resistor built in. Improves tone and volume.
NET 44c
- B1746.** Replaces 47 with 6 prong 2A5. Has filament resistor; 6 prong top, 5 prong base. More volume, less hum.
NET 44c
- B1745.** Permits use of type 50 Pentode power tube in place of type 47. This change results in increased power and decreased hum.
NET 44c

ADAPTERS FOR 2 VOLT TUBES

- B1755.** Replaces large UV201A base with small UX. Permits use of 20 series tubes in UV201A circuits. For modifying old type battery sets with the new 2 volt tubes. NET.
21c
- B1741.** Modernize old receivers with this adapter; makes possible the use of 4 prong UV-129 or 20 type tube in UV-189 socket. NET.
44c

DUAL GRID CAP

Double clip permits grid cap connection to be made on both the regular glass style or the new metal tubes. Eliminates need for 2 separate connections. Completely insulated in molded housing.
B1672, NET 12c

GRID CAP ADAPTER

Special adapter for use with any standard single control grid cap to permit contact with new small metal tube cap. Plus into regular grid clip. Clip end fits all-metal tube grid socket and fits in standard grid clip.
B1673, NET 9c

DUAL GRID STUD

Attaches to control grid lead of analyzer plug. For metal and glass tubes.
B1684, NET 6c

OCTAL SCREW STUD

Easily replaces one of the large studs on old analyzer plugs having two. For new metal tube grid clips.
B1685, YOUR PRICE 6c

TEST ADAPTER FORMS

Construct any style of tube or test adapter quickly with these forms. The top is a standard high quality molded socket; the bottom is a standard tube base plug. Desired connections can be made quickly and easily. Indispensable for modernizing equipment or for connecting phonograph, microphone, etc., to radio sets. Screw holds top and bottom together.

SOCKET [TOP]

- | | | |
|-------|---------|----------|
| No. | Holes | NET EACH |
| B1890 | 4 | 12c |
| B1891 | 5 | |
| B1892 | 6 | |
| B1893 | 7M | |
| B1894 | 7S | |
| B1895 | 8 OCTAL | 16c |

PLUG [BOTTOM]

- | | | |
|-------|---------|----------|
| No. | Prongs | NET EACH |
| B1896 | 4 | 8c |
| B1897 | 5 | |
| B1898 | 6 | |
| B1899 | 7S | |
| B1891 | 7M | |
| B1890 | 8 OCTAL | 12c |

ALDEN METAL TUBE TESTING ADAPTER

Checks all types of metal and metal-glass tubes when used in any tube checker. Plus into 36 socket for all tests. 2 octal sockets on adapter accommodate all metal tube types. 2 toggle switches are provided for thorough tests including both plates of the 521, 616 and 6X7 double-plate 1ube.
 Brief instruction book on face.
B1674, ALDEN 550 G.E.M. \$3.82
 List, \$5.50, NET.



ALDEN TUBE LEAKAGE AND SHORT TESTER

A new device which tests for leakage and shorts between elements in all 4, 5, 6 and 7 prong tubes. Leakage as high as 1 megohm is indicated by the special neon lamp incorporated in this tester. Operates directly from A.C. line. Contains jacks for using as a continuity tester. Complete with neon lamp, grid lead, cord and plug.
B1755, 95c, DEN \$2.06
TESTER, List, \$3.50, YOUR PRICE 206c





BOOKS for Every Service Need

GERNSBACK'S OFFICIAL MANUALS

VOLUME 6



Latest edition. Over 1200 pages and 2500 illustrations. Covers all available diagrams of sets from 1925, 1926 and early 1927. Miscellaneous diagrams cover speaker, phonograph, and IF and RF coil connections. Contains step-by-step alignment procedure on many complex all-wave and all-frequency sets complete. "Trade Name" index; comprehensive tube chart, and cumulative index covering all six volumes including

live index covering all sets from 1921 to early 1927.
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Costs less to operate than any other "A" battery. Now offered at a reduced price. Both Air Cell batteries listed below are rated at 600 ampere hours and have a useful life of approximately 100 hours. The A-100 type is for sets with a maximum current drain of 600 M.A. The SA-850 is for sets having a maximum drain of 750 M.A. In leak-proof cases, 10 1/2 x 6 1/2 x 7 1/2. Wt. 24 lbs. (Not available.)

B10025. No. A-600. NET \$4.62. Size 2 1/2 x 6 1/2 x 7 1/2.....\$4.53

B10026. SA-850. Heavy-duty (750 M.A.) for multi-tube sets. Wt. 29 lbs. NET \$5.51. Size 2 1/2 x 6 1/2 x 7 1/2.....\$5.40

"A", "B" & AIR CELL BATTERY TESTERS



Instrument, 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. Unusual values.

B2620. STORAGE BATTERY TESTER. Tells condition of battery. YOUR NET PRICE.....\$9.00

B2621. 0-35 Amps. For testing dry cells. YOUR PRICE.....18c

B2622. 0-50 Volts. For "B" Batteries. YOUR PRICE.....52c

B2623. Combination 0-40 Amp. and 0-50 Volts. NET.....68c

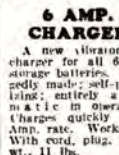
B7340. Air Cell Battery Tester. YOUR NET PRICE.....\$1.61

HOMCHARGER BATTERY CHARGERS



5-3 AMP. BOOSTER
A new battery charger for auto or home use. Has battery connector bracket for steering post mounting. Charge lamps automatically from 5 to 3 amp. No radio interference. For 110 Volt 60 cycle A.C. Ship. wt., 8 lbs.

B10040. List, \$7.50. YOUR PRICE.....\$4.41



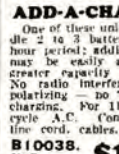
6 AMP. CHARGER
A new vibrator-type charger for all 6 volt storage batteries. Ruggedly made, self-polarizing, entirely automatic in operation. Charges quickly at 6 Amp. rate. Works from 110 Volt 60 cycle A.C. With cord, plug, car clamp, and cables. Ship. wt., 11 lbs.

B10041. List, \$12.50. YOUR PRICE.....\$7.35



HI-RATE CHARGER
Designed especially to provide a fast, high-rate charge. Automatic tapering feature assures safety at 10 amp. fast charge. Current drain is no more than that of a smaller charger. Complete with ammeter, 10 ft. cables, and dash receptacle. For 110 Volt, 60 cycle A.C. Ship. wt., 15 lbs.

B10037. NET.....\$11.47



ADD-A-CHARGER
One of these units will handle 2 to 3 batteries per 24 hour rate. Additional units may be easily added if greater capacity is desired. No radio interference. Self-polarizing "reverse" charging. For 110 Volt, 60 cycle A.C. Complete with line cord, cables, clips, etc.

B10038. NET.....\$12.49

SERV-A-CHARGER HOMCHARGER B10039. Similar to the Add-A-Charger above, but provided with a longer charging cable, and with charging plug instead of clips. A neat receptacle is included for mounting on the car dash, to charge the battery without removing the floor boards. NET.....\$13.47

STANCOR POWER PACKS



The ideal power pack for auto and battery radio sales demonstration and for service test work. Eliminates need for storage batteries. Delivers metered, metered direct current output from 110 Volt 60 cycle A.C. Avoids demonstration failures. Equipped with surge suppressor and circuit breaker for protection.

JUNIOR MODEL B10145. Delivers 5 amp. output at 5-7 1/2 Volts to operate an average auto or battery radio. Complete with meter, circuit-breaker, and surge-suppressor. NET.....\$16.61

DE LUKE MODEL B10147. Delivers 15 Amp. at 5-6 Volts. Has Hi-Lo switch and variable voltage. 500 Ohm control. Dual rectifiers. NET.....\$25.97

STANDARD MODEL B10146. Delivers 12 1/2 Amp. at 5-6 Volts. With meter, circuit-breaker, etc. NET.....\$19.55

32 VOLT "A" ELIMINATORS

Designed for use with sets using 2 Volt, 4 Volt, or 6 Volt tubes. Eliminates "A" batteries; provides proper filament voltage from 32 Volt Light System (correct voltage is always assured by means of built-in regulator dial and solt-meter. Two models are available: one for 2 or 4 Volt tubes; the other for 6 Volt tubes. Not suited for sets with built-in "B" eliminators, or from 110 V. line. For 32 Volts D.C. only. 2 lbs.

B2260. For 2 and 4 volt tubes. NET.....\$3.82
B2261. For 6 volt tubes. List, \$6.50. NET EACH.....



KING COLE RESISTANCE COILS

6-VOLT "A" SUPPLY FROM 32-VOLT SYSTEMS

Delivers 6 Volt "A" current supply directly from 32 Volt D.C. systems. For all types of battery sets. When pilot light is used in your set, consider it as one 201A tube. Not suited for use in sets with built-in "B" eliminators.

B2262. For 1-1/4 amp. tubes. NET.....EACH
B2263. For 6-1/4 amp. tubes. NET.....EACH
B2264. For 7-1/4 amp. tubes. NET.....EACH
B2265. For 8-1/4 amp. tubes. NET.....EACH

CHARGING RESISTOR B2266. For charging 6 volt batteries from 32 volt systems. List, \$2.50. NET EACH.....\$1.47

GENERATORS-CONVERTERS-GENERATORS

PIONEER GAS-ENGINE DRIVEN GENERATORS



PROVIDES 110 VOLTS A. C.

Light, sturdy, dependable generators for supplying 110 Volts A.C. for all purposes at minimum expense. Ideal for operating radios, sound systems, amateur stations, lighting systems, electrical appliances, etc. Also supplies low voltage D.C. for charging 6 volt storage battery. The 4 cycle type air cooled gasoline engine is made by a leading manufacturer. Special muffler reduces noise to a minimum. Built-in generator maintains constant 60 cycle current. Special bush construction assures long life with no commutator wear. Bearings are grease-sealed; require no attention. A.C. and D.C. leads are brought out to a connecting box.

300 WATT MODEL

B10215. The ideal unit for supplying current to small radio units, etc., where the power demand does not exceed 300 watts. Also supplies 60 watts D.C. for battery charging. Foot-pedal starter. Will operate 3 hours on one quart of gas. Extremely compact, measuring only 20" x 11" x 11". Wt., 72 lbs. **\$59.90** NET

300 WATT MODEL WITH REMOTE CONTROL

B10212. 300 Watt Gas Engine as above with remote control starting. **\$82.40** NET

600 WATT MODEL

B10216. A large, directly driven generator; will supply current up to a 600 watt load. Measures 28" long, 15 1/2" wide and 15 1/2" high. Hand-crank starter. **\$134.60** Wt., 140 lbs. NET

1000 WATT MODEL

B10217. Will supply sufficient A.C. for practically any purpose. Ideal for large sound trucks, radio transmitters, house lighting systems, etc. Measures 28" x 17 1/2" x 15 1/2". Wt., 170 lbs. NET. **\$194.60**

B10218. RADIO FILTER. Eliminates noise caused by the generator when used to supply power for radio sets or P.A. amplifiers. Includes ignition shielding. **\$5.60** YOUR PRICE

NEW MALLORY VIBRAPACKS

PORTABLE POWER FOR ALL RADIO & P.A. REQUIREMENTS

A new, inexpensive, dependable source of power for all portable radio receivers and transmitters, P.A. amplifiers, etc. These highly efficient units were developed to solve the portable power problem. Vibrator type; operate completely from 6 volt storage battery. Will supply up to 100 M.A. of easily filtered pulsating D.C. Output voltage is variable in four 25 volt steps by selector switch. Models 551 and 552 are self-rectifying; tube rectifier is supplied with models 553 and 554.

B11998. Type VP-551. Self-rectifying. Output voltage: 125-150-175-200. With vibrator but no filter supplied. **\$8.82** NET

B11997. Type VP-552. Self-rectifying. Output voltage: 225-250-275-300. With vibrator but no filter supplied. **\$10.88** NET

B11998. Type VP-553. Tube rectifier. Output voltage: 125-150-175-200. With vibrator and tube; no filter. **\$9.70** NET

B11999. Type VP-554. Tube rectifier. Output voltage: 225-250-275-300. With vibrator and tube; no filter. **\$11.76** NET

CARTER HEAVY-DUTY GENEMOTORS



ELIMINATES "B" BATTERIES

Do away with "B" battery expense. The Carter Genemotor operates directly from any 6 volt battery (or 32 Volt plant) and supplies all "B" voltages for the operation of any battery radio. It is a small precision-built unit with an efficient, self-contained filter system. Delivers smooth D.C. inexpensively.

Taps: 23, 45, 67, 90, 135, 180 Volts

Ideal for home type battery sets. Voltage tap block provides 22, 45, 67, 90, 135, and 180 Volts for operation of any battery radio. Quiet in operation; does not require oiling or attention. Easy to install; compact, only 4 1/2" x 2 1/2" high. Will give years of good service. Wt., 9 lbs.

FOR 6 VOLT OPERATION

B10230. 6280F. Will deliver 180 volts D.C. at 30 M.A. max. Input drain is 2.2 amperes from 6 volt storage battery.

B10231. 6220L. Will provide 200 volts D.C. at 40 M.A. Operates from 6 volt storage battery with a drain of 3 amperes.

FOR 32 VOLT OPERATION

B10232. 3280F. Operates from any 32 volt D.C. source. Delivers 180 volts D.C. at 30 M.A. Input drain is only 15 watts.

B10233. 3280H. Delivers 180 volts D.C. at 30 M.A. Will operate from any 32 volt D.C. source. Input drain is only 18 watts.

List. Each. \$22.50. **\$13.23** YOUR PRICE

For Each of Above Models.

NEW CARTER LIGHTWEIGHT SUPER GENEMOTORS



A new line of lightweight genemotors for use with portable or mobile radio receivers, high-gain amplifiers, transmitters, etc. Extremely efficient and dependable. Have sturdy frames and dynamically balanced armatures which insure smooth trouble-free operation. All bearings are quiet-running; require no oiling. Newly designed brushes are free from sparking and noise. D.C. voltage output is easily filtered. Supplied with diagrams and sketches for construction of correct filters. With heavy leads for connection to power source, and rubber mounting cushions. Operate from 6 Volt D.C. source.

Stock No.	Output Volts	M.A.	Amps. Drain	YOUR PRICE
B10240	280	50	5	\$16.17
B10241	350	100	10	17.64
B10242	350	150	15	19.99
B10243	300	200	19	22.34
B10244	400	150	20	22.93
B10245	400	200	26	25.52
B10246	300	100	26.7	27.52
B10247	250	100	9	16.46

We can also supply Carter Genemotors with output ratings up to 1250 volts. Also available for operation from 12 volt battery. Write for prices.

FAMOUS JANETTE ROTARY CONVERTERS



CONVERTS D. C. TO A. C.

Permits the operation of A.C. radio sets, sound systems, and other devices and appliances from 32 volt light plants or 110 volt D.C. lines. Compact, dynamically balanced, ruggedly designed, and built for long life. The armature employs the superior dynamotor type (double-wound) construction. The field frames are of high quality rolled steel and the field poles are laminated for the very highest efficiency. Removable grid covers protect the commutator slip rings and brushes. Quality construction throughout assures freedom from trouble.

WITH BUILT-IN FILTER

The Janette Rotary Converters listed below are equipped with special All-Wave interference filters, for all types of radio receivers. Assure exceptionally quiet reception results on all bands from 500 to 36,000 K.C. (10 to 547 meters). We can also supply converters for special voltages, frequencies, both. Please describe your requirements and we shall quote promptly.

32 VOLTS D. C. TO

110 VOLTS 60 CYCLE A. C.

Stock No.	Output Volts	Input Amps.	Type	YOUR PRICE
B10100	80	8	CA-20-F	\$29.15
B10201	110	8.5	CA-20-F	31.39
B10202	150	9.4	CA-16-F	34.64
B10109	125	11.5	CA-16-F	40.30
B10203	200	15	C-13-F	48.71
B10204	300	18	CR-14-F	64.14
B10198	650	27	CE-12-F	95.53

110-115 VOLTS D. C. TO

110 VOLTS 60 CYCLE A. C.

Stock No.	Output Volts	Input Amps.	Type	YOUR PRICE
B10205	80	1.4	CA-20-F	\$29.15
B10206	110	1.9	CA-20-F	31.39
B10207	150	2.7	CA-16-F	34.64
B10210	125	2.0	CA-16-F	40.30
B10208	300	4.0	C-13-F	48.71
B10209	300	8.4	CE-14-F	64.14
B10211	750	8.5	CE-15-F	95.53
B10217	1000	13.0	CE-16-F	118.21

We can supply all other types of Janette converters, motor or gas-engine driven generators, etc., at lowest prices. Write describing your needs, for prompt quotation.

CARTER COMPACT GENEMOTORS

The smallest complete auto "B" eliminator made. Completely built-in. Has built-in filter. Ball bearings eliminate oiling and vibration. All elements. Easily installed; will deliver full efficiency from a 6 volt battery. Measures only 2 1/2" x 3 1/2". Wt., 6 1/2 lbs.

135 VOLT MODEL

B10235. Operates from 6 Volt battery and delivers 135 Volts at 30 M.A., tapped at 67 1/2 V. Draws 2.2 amperes. Replaces 3 "B" batteries.

180 VOLT MODEL

B10236. Delivers 180 volts at 30 M.A. tapped at 90 V. Works from 6 V. battery at drain of 2.6 amperes. Replaces 4 "B" batteries.

200 VOLT MODEL

B10237. Delivers 200 volts D.C. at 40 M.A. with an intermediate tap at 90 volts. Operates from 6 volt battery with a drain of 3.5 amperes. List. Each. \$16.50. **\$9.70** NET EACH

INTERFERENCE ELIMINATORS FILTERS

RADIO NOISE CAN BE ENDED! USE THESE TOBE NOISE-ELIMINATING FILTERETTES

Carefully engineered units designed to overcome undesirable radio interference at its source. Built to stop noise over the range of frequencies covered by modern broadcast and S.W. receivers.



NOISE MANUAL
A helpful manual published by the ToBe Deuschmann Corp. Contains full information on many electrical noises and how to prevent them from reaching the radio set. Will pay for itself on your first service call.
B8449. NET..... 29c



MODEL 7 AC-DC POWER LINE FILTER
An easily installed Tobo 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 line. For 110 volt lines. Sng. wt. 1 lb.
B8406. NET..... 59c



RAZOR FILTERETTE
A practical filter unit for reducing interference from electric razors. Enjoy early morning programs, time signals, weather reports, etc., without the disturbing buzz of your razor. Just plug unit in wall receptacle and plug razor in other end.
B8402. NET..... 59c



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. Convenient to attach.
B8403. NET..... \$1.32

FILTERETTE SENIOR
An inductive-capacitive type designed for use with appliances requiring larger filter than the unit listed above. For use on any 110 Volt A.C. or D.C. appliance.
B8404. NET..... \$3.23



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.
B8405. NET..... \$1.62

SPRAGUE INTERFERENCE ELIMINATORS



INTERFERENCE ANALYZER
A compact, portable instrument for the serviceman; quickly and simply tells you what line filter units are required for interference suppression. Connects directly into circuit from which the interference originates. Supplied complete with cables, indicator circuit card and instructions. Operates either on 110 or 250 volts, A.C. or D.C. In bakelite case, 4 1/2 x 3 inches. Wt., 5 lbs.
\$9.55
B1450. NET.....

NEW NOISE-ELIMINATION MANUAL

A practical book covering the Interference Elimination problems from A to Z. Used by the National Radio Institute as a reference book in teaching how to locate interference and how to clear it up after it is found. Shows which Interference unit to use for different filter problems. Sent FREE on request with orders for Sprague Interference Filters. You need this book for noise-elimination work.



INTERFERENCE ELIMINATION CONDENSERS AND CHOKES

Exhaustive experiments show that different noise conditions must be met with different filter units. The units below will definitely needs as indicated by the Sprague Analyzer above.

Type IF-11. Dual Condenser. For large motors, as in refrigerators, oil burners, etc.
B1455. List. \$2.50
NET..... \$1.47

Type IF-30. Individual Unit. Oil-filled type. For small intense frequency high capacity units.
B1456. List. \$1.75.
NET..... \$1.03

Type IF-21, IF-33. Tubular Condensers. For fractional horsepower motors used in mixers, fans, etc.
B1457. IF-33. List. 75c. NET..... 44c
B1458. IF-21. List. \$1.00.
NET..... 59c

Type CH-1 Choke. Specially designed; will carry up to 10 amps. Metal can, self-mounting. (Can be used on 1 HP. motor.)
B1459. List. \$1.35. NET..... 79c

Type CH-2 Choke. Slightly larger than unit above. Will carry up to 20 amps. For larger motors.
B1450. List. \$2.75. NET..... \$1.62

SPRAGUE CUT-OUT BOX

A compact metal box, with hinged cover and knock-out holes. Ideal for mounting practically any combination of the above interference units. Measures only 7"6" x 3 1/2".
B1451. NET..... 88c

TACO H-F ALL-WAVE LINE FILTER

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. Specially efficient when installed on the interference-causing device. Operates on either A.C. or D.C. devices drawing not more than 200 Watts at 110 volts. Measures only 4 1/2" x 5". Easily installed without tools. Equipped with bakelite receptacle and attachment cord with unbreakable rubber plug. Hand some brown-finished metal case.
B7903. List. \$7.50.
YOUR PRICE..... \$4.41



MODEL 110-PO
The largest and most effective of the plug-in filter ettes. Will handle up to 5 amperes. Ideal for electric refrigerators, washing machines, dental equipment, and other appliances. Wt., 4 lbs.
B8408. NET..... \$6.17



MODEL RF-2
Designed to eliminate noise 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 on any line where voltages does not exceed 130 volts. Sng. wt., 2 pounds.
B8405. NET..... \$2.90

SPECIAL FILTERETTES

OIL BURNER FILTERETTE

Engineered especially for use with any oil-burner type of heating plant. Mounted in a "3" x 3" standard cut-out cabinet. Equipped with detachable mounting brackets. Will handle up to 2.5 amperes at 110 volts. Sng. wt., 6 lbs.
B8411. NET..... \$5.59



110 FILTERETTE

An Inductive-Capacitive type filterette for use with appliances that draw up to 5 amperes at 110 volts. In knock-out box.
B8414. NET..... \$7.35

131 FILTERETTE

Same type of filterette as above except for use with apparatus drawing up to 10 amperes at 110 volts. In knock-out box.
B8398. NET..... \$11.76

132 FILTERETTE

Same type of filterette as above except for use on circuits drawing up to 20 amperes at 110 volts. In knock-out box.
B8399. NET..... \$17.64

AEROVOX INTERFERENCE ELIMINATOR

Eliminate power line interference
Completely factory-built
Simple one-minute installation
Completely eliminates all power-line noise. Greatly reduces man-made static from electric motors, vacuum cleaners, elevators, and other interfering electrical devices that cause more than 25% of radio disturbances. AeroVox Interference Eliminators furnish a real noise-free background for increased radio enjoyment. No tools needed—just plug in. Complete with cord and plug. Sng. wt., 3 lbs.
B6790. List. \$4.75.
YOUR NET PRICE..... \$2.79



MILLER ALL-WAVE LINE NOISE FILTER

Capacitive Inductance circuit used
Duo-lateral R. F. choke coils
Complete noise elimination
Positive results are obtained by use of complete filter circuit. Oil condensers give long life. Duo-lateral chokes are used for greatest filtering. May be used on small interfering devices or on the radio itself. Requires no adjustment. Plug radio or appliance into filter, and filter into outlet. With cord and plug. 110 volts, 200 watts.
B7213. List. \$4.00.
YOUR NET PRICE..... \$2.35



MILLER LINE CHOKES

Duo-lateral wound R.F. choke coils. Ideal for building into line filters. Well-adapted to all types of line filter devices. Low resistance.

No.	Microh.	Amps.	NET
B7214	500	2	\$0.59
B7215	250	5	1.47
B7216	570	10	1.91
B7217	200	20	2.35

BUD INTERFERENCE FILTER

A highly serviceable filter that does away with "man-made interference" such as that caused by bells, refrigerators, etc. Easily and quickly attached by means of cord and plug supplied.
As a capacity filter, there is no danger of harmonics. Built into a neatly finished, all bakelite box. Shipping weight, 1 lb.
B2600. List. \$2.85.
YOUR PRICE .. \$1.47



Quality REPLACEMENT VIBRATORS

A complete listing of exact duplicate vibrators. Standard equipment in many popular auto and home receivers. Famous for high-quality and absolute dependability.



MALLORY

All Mallory vibrators are exact duplicates of the original units. Installation is simple and requires no changes in the circuit. Well-known because of their long-life and precision type construction. We carry a complete stock at all times to give you the fastest possible service. When ordering vibrator not listed below, state manufacturer's type number, or model and make of set.

Set	MALLORY			UTAH		
	Mfrs. No.	Our No.	NET	Mfrs. No.	Our No.	NET
AIRLINE						
62-166, 62-118.....	253	B4650	\$2.65	NP42	B9052	\$2.65
ARVIN						
15, 25, 35, 45 1st Ser.	296	B4651	2.65	NL3	B9054	2.35
15, 25, 35, 45 2nd Ser.	292	B4652	2.35	NP6	B9050	2.65
17, 17A, 27, 37.....	294	B4653	2.65	NP42	B9052	2.65
ATWATER KENT						
666, 776.....	296	B4651	2.65	NP6	B9050	2.65
816, 424, 534.....	226	B4657	3.53	SL5	B9064	3.23
AUDIOLA						
33A6.....	225	B4658	3.53	SL5	B9064	3.23
C6, 64, 74.....	294	B4653	2.65	NP42	B9052	2.65
3356 (2 Prong).....	312T	B4660	2.65	NP61	B9066	2.65
346, 347 (6 Prong).....	297	B4660	2.65	NP61	B9066	2.65
BELMONT						
566, 666.....	294	B4653	2.65	NP42	B9052	2.65
660 (Vibrator only).....	292	B4652	2.35	NL3	B9054	2.35
580, 670, 680 Series.....	296	B4651	2.65	NP6	B9050	2.65
BOSCH						
140 (2nd & 3rd Ser.).....	271	B4661	3.53	SP53	B9058	3.53
524A, 634-64A.....	253Y	B4662	2.65	NP42	B9052	2.65
150 (1st Series).....	219	B4663	4.41	SP53	B9058	4.41
150 (2nd Series).....	271	B4662	3.53	SP53	B9058	3.53
CHEVROLET						
354-11.....	221	B4664	2.65	NL3	B9054	2.35
600153 Series.....	222	B4654	3.38	SL5	B9064	3.23
601038 Series.....	273C	B4665	3.23	SP51	B9056	3.09
985100, 985200.....	294	B4653	2.65	NP42	B9052	2.65
985300.....	273D	B4666	3.23	SP52	B9057	3.23
CROSLY						
98, 99, 102, 103, 5A1.....	223	B4667	3.53	SL5	B9064	3.23
84L, 5A3, A155.....	247	B4668	3.38	SP6	B9062	3.38
DETROLA						
6A, 1100, 1100A.....	220B	B4655	3.38	NL3M	B9055	2.79
6M, 6R.....	294	B4653	2.65	NP42	B9052	2.65
934, 1935 (3 Lead).....	292	B4652	2.35	NL3	B9054	2.35
EMERSON						
965, 667.....	296	B4651	2.65	NP6	B9050	2.65
5A.....	277S	B4669	3.53	SP63	B9067	3.53
678-1 & 2.....	222	B4654	3.38	SL5	B9064	3.23
6A, 1A, 2A, E123.....	253Y	B4662	2.65	NP42	B9052	2.65
ERLA-SENTINEL						
5500, 7M, 10M, 11M.....	294	B4653	2.65	NP42	B9052	2.65
600, 602, 603.....	292	B4652	2.35	NL3	B9054	2.35
FADA						
101, 102, 104, 104B.....	221	B4664	2.65	NL3	B9054	2.35
166, 266 Series.....	253Y	B4662	2.65	NP42	B9052	2.65
FORD						
MAJESTIC 40-18805.....	220B	B4655	3.38	NL3M	B9055	2.79
PHILCO.....	500P	B4677	1.76	NP41	B9051	1.76
FREED						
A7, A9.....	210	B4663	4.41	SP5H	B9059	4.41
G.E.						
B40, C41, B52.....	271*	B4661	3.53	SL51	B9074	3.53
C60.....	253	B4650	2.65	NP42	B9052	2.65
D50, D51, D52.....	287M	B4670	3.23	SP62	B9061	3.23
KNIGHT						
F9541, F9551.....	292	B4652	2.35	NL3	B9054	2.35
U7.....	294	B4653	2.65	NP42	B9052	2.65
L7, N6, 24, 25, BA41.....	245C	B4689	3.23	SP65	B9063	3.23
A9811-12, H9817.....	285NS	B4687	4.12	SP67	B9073	4.12
LEWOL						
9101.....	292	B4652	2.35	NL3	B9054	2.35
MAJESTIC						
66, 116, 116A, 118.....	220B	B4655	3.38	NL3M	B9055	2.79
MALLORY						
201-2-3-4.....	201	B4656	3.23	NP42	B9052	2.65
10, 11, 12, 13, 14 Ser.	210	B4663	4.41	SP5H	B9059	4.41
MOTOROLA						
34, 50, 60, 90.....	294	B4653	2.65	NP42	B9052	2.65
61, 88.....	302S	B4671	4.41	NP41	B9051	1.76
77.....	230	B4672	4.41	SP51H	B9059	4.41
77A, 44A, 66.....	270B	B4673	3.53	SP63	B9067	3.53
55.....	231	B4674	4.26	SLH	B9065	4.26
44.....	235	B4675	4.26	SLH	B9065	4.26
57, 62, 75, 79, 100, 110.....	253T	B4676	2.65	NP42	B9052	2.65

UTAH

A complete line of study, dependable vibrators for replacement purposes. Exact duplicates electrically and mechanically of the original units; require no circuit or other changes for installation. We carry a complete stock of Utah vibrators at all times. When ordering types not listed below, state manufacturer's type number, or model and make of set.



Set	MALLORY			UTAH		
	Mfrs. No.	Our No.	NET	Mfrs. No.	Our No.	NET
MOTOROLA (cont'd)						
Dual 6, Twin 8.....	253	B4650	\$2.65	NP42	B9052	\$2.65
MUSIC MASTER						
TEN-TEN.....	292	B4652	2.35	NL3	B9054	2.35
PHILCO						
All to 1936, 816, 817, 818, 819.....	500P	B4677	1.76	NP41	B9051	1.76
	501P	B4678	1.76	NP41	B9051	1.76
RC A VICTOR						
5M, 6M, 6M2.....	249	B4679	3.23	SP62	B9061	3.23
M34, M105, M116.....	271*	B4661	3.53	SL51	B9074	3.53
M107.....	253	B4650	2.65	NP42	B9052	2.65
M101, M104, M108.....	287M	B4670	3.23	SP62	B9061	3.23
SEARS-ROEBUCK						
7128 (4 PRONG).....	294	B4653	2.65	NP42	B9052	2.65
7117, 1859A.....	271	B4661	3.53	SP53	B9058	3.53
SIMPLEX						
T.....	292	B4652	2.35	NL3	B9054	2.35
SPARTAN						
33, 33A, 33B, 333.....	292	B4652	2.35	NL3	B9054	2.35
36.....	222	B4654	3.38	SL5	B9064	3.23
STEWART-WARNER						
R112, 1121, 1122, 1123.....	292	B4652	2.35	NL3	B9054	2.35
R118, 1171, 1172, 1181.....	294	B4653	2.65	NP42	B9052	2.65
STROMBERG-CARLSON						
33, 33A.....	236	B4663	4.41	SP5H	B9059	4.41
UNITED MOTORS						
BUICK-OLDS-PONTIAC						
30384-5, 405045.....	273C	B4665	3.23	SP51	B9056	3.09
405046 Series.....	273C	B4665	3.23	SP51	B9056	3.09
544367 Series.....	273C	B4665	3.23	SP51	B9056	3.09
WELLS-GARDNER						
6U, 6S.....	253	B4650	2.65	NP42	B9052	2.65
V622, Z621.....	292	B4652	2.35	NL3	B9054	2.35
W62, 062A.....	216	B4680	3.97	SP66	B9063	3.23
072-072A.....	211	B4663	4.41	SP5H	B9059	4.41
WURTLITZER						
A60, 460.....	292	B4652	2.35	NL3	B9054	2.35
ZENITH						
460, 462, 650HD.....	292	B4652	2.35	NL3	B9054	2.35
JUNIOR 7, FORD.....	296	B4651	2.65	NP6	B9050	2.65
5405-6, 5621-35.....	246	B4688	3.23	SP66	B9063	3.23

*Add 30c net for special cup adapter. B4699.



UNIVERSAL REPLACEMENT VIBRATORS

New universal vibrators for replacement purposes. Same type of high quality workmanship and materials as used in the standard lines listed on this page. Will service many vibrator-equipped sets.

NON-SYNCHRONOUS—STANDARD 4 PRONG	
B4682, MALLORY MUI, List \$3.00.	B9068, UTAH NP420, List \$3.00.
NET \$1.76	NET \$1.76
In Lots of 12, Each \$1.47	In Lots of 12, Each \$1.47
NON-SYNCHRONOUS—SPECIAL 4 PRONG	
B4684, MALLORY MUI, List \$3.50.	B9070, UTAH NP 450, List \$3.50.
NET \$2.06	NET \$2.06
In Lots of 12, Each \$1.71	In Lots of 12, Each \$1.71
SYNCHRONOUS—STANDARD 5 PRONG	
B4685, MALLORY MUI, List \$4.50.	B9071, UTAH SP500, List \$4.50.
NET \$2.65	NET \$2.65
In Lots of 12, Each \$2.20	In Lots of 12, Each \$2.20
SYNCHRONOUS—STANDARD 6 PRONG	
B4686, MALLORY MUI, List \$4.50.	B9072, UTAH SP660, List \$4.50.
NET \$2.65	NET \$2.65
In Lots of 12, Each \$2.20	In Lots of 12, Each \$2.20
REVERSIBLE SYNCHRONOUS—SPECIAL 6 PRONG	
B4683, MALLORY MUI, List \$4.50.	B9069, UTAH SP620, List \$4.50.
NET \$2.65	NET \$2.65
In Lots of 12, Each \$2.20	In Lots of 12, Each \$2.20

Values in VOLUME CONTROLS

IRC METALLIZED VOLUME CONTROLS



A new volume control with superior features. Operates quietly. Only 1/2" diam. In bakelite housing. Uses: A—For potentiometer or rheostat with uniform resistance change; C—Audio grid or antenna shunt; D—Antenna and "C" bias for one tube; F—Antenna and "C" bias for two tubes; S—Special control for use as fader.

No.	Use	Ohms	No.	Use	Ohms
B11900	A	500	B11917	A	5000
B11901	A	1000	B11918	C	5000
B11902	A	2000	B11919	C	7500
B11903	A	3000	B11920	D	7500
B11904	A	4000	B11921	A	10000
B11905	A	5000	B11922	A	10000
B11906	C	5000	B11923	A	20000
B11907	F	10000	B11924	D	20000
B11908	A	10000	B11925	C	25000
B11909	D	10000	B11926	C	50000
B11910	C	10000	B11927	A	50000
B11911	D	15000	B11929	C	1 Meg.
B11912	F	15000	B11930	C	1 Meg.
B11913	F	20000	B11932	C	3 Meg.
B11914	D	25000	B11935	A	5 Meg.
B11915	A	25000	B11936	A	10 Meg.
B11916	F	25000			

YOUR PRICE EACH..... **59¢**
LESS SWITCH.....

No.	Use	Ohms	Less Switch	NET EACH
B11928	C	50000		88¢
B11929	X	1 Meg.		
B11930	C	1 Meg.		
B11934	C	2 Meg.		

*These controls are supplied with 300 ohm 1/2 watt resistor. For replacing controls in grid bias circuits which require fixed minimum resistance.

t-Tapped for tone control circuit.

ATTACHABLE SWITCHES

B11325	S.P.D.T. Switch, NET.....	29¢
B11326	S.P.D.T. Switch, NET.....	35¢
B11327	D.P.S.T. Switch, NET.....	35¢

IRC CONTROL GUIDE

Send FREE, on request, with each order for an IRC volume control.
B1193B. IF ORDERED SEPARATELY. **5¢**

OHMITE VITREOUS ENAMELED RHEOSTATS

A high-quality line of power rheostats for all types of radio and power control circuits. Conservative current ratings are for open-air use at full resistance. Resistance wire is wound on porcelain core and covered with vitreous enamel, except for contact surfaces; assures extreme rigidity of metal-impregnated carbon wipers. Shaft is insulated for use on metal panels. Requires 3/16" mounting hole. Three terminals; may be used as potentiometer.



Model H-25 Watt			Model J-50 Watt		
No.	Ohms	Each	No.	Ohms	Each
B6600	1	\$2.65	B6622	3	
B6601	2		B6623	5	\$2.94
B6602	3		B6624	8	
B6603	5		B6625	4	
B6604	8		B6626	8	
B6605	10		B6627	12	
B6606	15		B6628	22	
B6607	25		B6629	35	
B6608	50	2.35	B6630	50	
B6609	50		B6631	80	2.65
B6610	75		B6632	150	
B6611	100		B6633	225	
B6612	175		B6634	300	
B6613	250		B6635	500	
B6614	350		B6636	800	
B6615	500		B6637	1000	2.79
B6616	750		B6638	1500	
B6617	1000		B6639	2500	
B6618	1500	2.65	B6640	5000	
B6619	2000		B6641	5000	2.94
B6620	3000	2.79	B6642	8000	
B6621	5000	2.79	B6643	10000	

UTAH-CARTER VOLUME CONTROLS



A well-known, attractively-priced selection of dependable high-quality volume controls. Insulated shaft type. C—Clockwise Taper; CC—Counter Clockwise Taper. All others with uniform taper. 1 1/2 inch shafts may easily be run to shorter length. 3/16" bushing. May be had with or without AC line switch.

Less Switch		With Switch	
No.	Ohms	No.	Ohms
B6950	500	B6968	500
B6951	1000	B6969	1000
B6952	2000	B6970	2000
B6953	3000	B6971	3000
B6954	5000	B6972	5000
B6955	8000	B6973	8000
B6956	10000	B6974	10000
B6957	10000C	B6975	10000C
B6958	10000	B6976	15000C
B6959	20000	B6977	20000C
B6960	25000	B6978	25000
B6961	50000	B6979	50000
B6962	75000CC	B6980	75000CC
B6963	100000C	B6981	100000C
B6964	200000	B6982	200000
B6965	250000	B6983	250000
B6966	500000	B6984	500000
B6967	1 Meg. C	B6985	1 Meg. C

1 1/2" dia. **38¢** 1 1/2" dia. **56¢**
NET EACH.....

B6987. AC SWITCH only for Carter Replacement Controls. **18¢**

UTAH-CARTER MIDGETS

Extreme compact. Precision-built wire wound units. Outer 1/2" dia., 1/8" deep back of panel. Dissipates 1 watt. Less knob. Single bolt mounting type. May be mounted for all radio requirements. Ideal where space is at a premium. Large lines make soldering easy. Save money by using three dependable top-quality midget controls.

POTENTIOMETERS		RHEOSTATS	
No.	Ohms	No.	Ohms
B9020	6	B9025	400
B9021	10	B9026	500
B9022	15	B9027	1000
B9023	20	B9028	1500
B9024	200		

YOUR PRICE EACH..... **28¢**

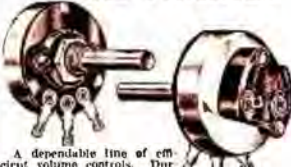
UTAH "BABY" CONTROLS

A new type volume and tone control, only 1 1/2" in diameter. Supplied less dial switch only. 1/2" shaft; 3/16" bushing. Dissipates 1 watt.

No.		Ohms	
B8975	1000	B8988	25000
B8976	2000	B8989	+25000
B8977	3000	B8990	50000
B8978	4000	B8991	50000
B8979	5000	B8992	75000
B8980	+5000	B8993	+100000
B8981	6000	B8994	200000
B8982	+10000	B8995	+250000
B8983	10000	B8996	+500000
B8984	+15000	B8997	+1 Meg.
B8985	+20000		

1 1/2" dia. **44¢**
NET EACH.....

KNIGHT UNIVERSAL VOLUME CONTROLS



A dependable line of efficient volume controls. Durable; very quiet in operation. Moisture-proof. Smooth contact action assures quiet operation. Rated at one watt. Case, 1 1/2" diameter; 1/2" shaft extends 1 1/2". Code: A—Antenna control. U—Antenna and "C" bias. W—"C" bias. P—Potentiometer. T—Tone control or audio shunt.

Less Switch		With Switch	
No.	Ohms	No.	Ohms
B5560	1000A	B5573	1000A
B5561	2000A	B5574	2000A
B5562	3000P	B5575	3000P
B5563	5000U	B5576	5000U
B5564	10000U	B5577	10000U
B5565	15000P	B5578	15000P
B5566	20000W	B5579	20000W
B5567	25000P	B5580	25000P
B5568	50000T	B5581	50000T
B5569	100000T	B5582	100000T
B5570	250000T	B5583	250000T
B5571	1 Meg. T	B5584	1 Meg. T

YOUR PRICE EACH..... **28¢** YOUR PRICE EACH..... **40¢**

FILTERMATIC TONE CONTROLS

Advanced condenser type De-tune Tone Control. Operates smoothly and noiselessly. Mica dielectric construction. In bakelite case; thorough moisture-proofed. Measuring 1 1/2" dia., 1 1/2" deep. 1/2" shaft; 3/16" bushing.



Less Switch		With Switch		
Cap.	No.	Each	Each	
.002	B5025	35¢	B5030	47¢
.005	B5026	35¢	B5031	47¢
.01	B5027	41¢	B5032	53¢
.015	B5028	47¢	B5033	59¢
.02	B5029	53¢	B5034	65¢

CRL POWER RHEOSTATS

Ideal rheostats for many commercial applications. Give maximum dissipation for size because of complete air circulation. Frame and core are insulated with asbestos.



25 WATT		50 WATT		75 WATT	
No.	Ohms	No.	Ohms	No.	Ohms
B3000	25	B3005	100	B3010	50
B3001	50	B3006	150	B3011	75
B3002	75	B3007	200	B3012	100
B3003	100			B3013	150
B3004	150			B3014	200

NET EACH..... **\$1.18**

50 WATT		75 WATT	
No.	Ohms	No.	Ohms
B3010	25	B3017	50
B3011	50	B3018	75
B3012	75	B3019	100
B3013	100	B3020	150
B3014	150	B3021	200

NET EACH..... **\$1.47** YOUR PRICE EACH..... **\$1.76**

UTAH POWER "L" PADS

A new line of highly efficient, heavy-duty "L" pads. Recommended for slide or dial mixing stations, as constant impedance is maintained in only one side of the control.



No.	Ohms	Watts	No.	Ohms	Watts
B9044	500	2 1/2	B9046	15	3
B9045	1000	2 1/2	B9047	30	3
B9046	1500	2 1/2	B9048	500	25
B9047	2000	2 1/2	B9049	1000	25

PRICE EACH..... **\$1.76** NET EACH..... **\$2.94**

STANDARD YAXLEY VOLUME CONTROLS

YAXLEY UNIVERSAL VOLUME CONTROLS

These new Yaxley Universal Controls make it possible for the serviceman to replace defective controls, regardless of size, shape, or electrical characteristics, in over 90% of all the radio receivers in use today. With a comparatively small stock, you can now meet the requirements of all repair jobs which call for volume or tone control replacements.

ABSOLUTELY NOISELESS
Continuous scientific development has resulted in the new Yaxley permanent silent controls. They have perfectly smooth taper controlled by special geometric design. Silver-to-silver contacts are used between all moving contact-carrying parts to result in perfect, noiseless contact between the moving arm of the control and the resistance element. This is the ideal control for all service work or new set construction. Low priced quality units.



WITH ADVANCED FEATURES

• Easily set minimum bias adjustments on all bias controls. • 3 inch shaft, easily cut to desired length. • Easily attached separate Underwriters Approved power switch. • Knob adapter—not necessary to file shaft. • Extension bushing—allows use of control through 5/8" panel. • Absolutely noiseless contact between moving arm and resistance element.

UNIVERSAL REPLACEMENT CONTROLS

No.	Ohms	Type	Taper	No.	Ohms	Type	Taper
B8583	2	IQ	IV	B8518	15000	H12	I
B8584	6	IR	IV	B8519	15000	*H	II
B8585	10	IS	IV	B8520	15000	*H7	VII
B8586	20	IT	IV	B8521	20000	*AZOMP	IV
B8587	30	IU	IV	B8522	20000	Y	I
B8588	40	IV	IV	B8523	25000	Y25MP	IV
B8589	100	IV	IV	B8524	25000	Y	I
B8590	200	IN.	IV	B8525	50000	Y50MP	IV
B8591	400	*A400P	IV	B8526	50000	K12	I
B8592	A 500	B	IV	B8527	50000	K	II
B8593	550	*A550P	IV	B8528	75000	Z12	I
B8594	1000	AI1MP	IV	B8529	75000	Z	II
B8595	1000	B	IV	B8530	100000	Y100MP	IV
B8596	1000	UC500	II	B8531	100000	L	I
B8597	2000	*AZ2MP	IV	B8532	100000	UC510	II
B8598	2000	*C12	II	B8533	100000	UC503	II
B8599	2000	*C	II	B8534	200000	Y200MP	IV
B8600	3000	*D12	II	B8535	200000	Y250MP	IV
B8601	3000	*A3MP	IV	B8536	200000	M	I
B8602	3000	*D	II	B8537	200000	*UC511	II
B8603	3000	*D7	VII	B8538	200000	UC509	II
B8604	5000	*ASMP	IV	B8539	200000	Y500MP	IV
B8605	5000	Y5MP	IV	B8540	200000	UC513	II
B8606	5000	E12	I	B8541	200000	*UC512	II
B8607	5000	*E	II	B8542	200000	*UC515	II
B8608	5200	*E7	VII	B8543	200000	UC511	II
B8609	7500	F12	I	B8544	200000	UC503	II
B8610	7500	*F	IV	B8545	1 Meg.	Y1000MP	IV
B8611	7500	*F7	VII	B8546	1 Meg.	O	I
B8612	10000	*A10MP	IV	B8547	1 Meg.	*UC514	II
B8613	10000	Y10MP	IV	B8548	2 Meg.	P	I
B8614	10000	*G12	II	B8549	3 Meg.	UC504	I
B8615	10000	*G	II	B8550	4 Meg.	UC505	I
B8616	10000	*C501	II	B9001	5 Meg.	UC506	I
B8617	10000	*C7	VII	B9002	5 Meg.	UC507	II
				B9003	9 Meg.	UC508	I

* Adjustable Bias Feature.
† Slotted Shaft for auto sets.
‡ Extra long shaft for auto radios, etc.
§ Wire-Wound Element. Balance Carbon.

List. \$1.00.
NET
EACH..... **59c**

ATTACHABLE VOLUME CONTROL SWITCHES

Listed as standard by the Underwriters' Laboratories. Inexpensive construction makes them easily attached or removed. Uses the slide-clip method of switch attachment, which has been found most satisfactory for installation in radio service work. Available in five types listed below.

- B9004, Type 6-9.** S.P.S.T. Special thin design. "On-off" switch. List. 50c. NET. 29c
B9005, Type 7. D.P.S.T. Thin design. Similar to type 6. List. 50c. NET. 35c
B9006, Type 8. S.P.D.T. Slightly larger than Types 6 and 7. List. 50c. NET. 35c
B9007, Type 13. (3PST). Shorting. List. 50c. NET. 35c
B9008, Type 14. (4PST). Shorting. List. 60c. NET. 35c

YAXLEY VOLUME CONTROL TAPER CHARTS

The graphs shown here illustrate the various tapers of Yaxley volume controls. To simplify the reading of these tapers, the following explanations are given:

I. A modified logarithmic left-hand taper in the carbon unit; semi-logarithmic taper in the wire-wound types. Far use in shunt circuits, such as antenna and audio circuits.

II. A right hand logarithmic taper in the carbon control, semi-logarithmic in the wire-wound types. Far series circuits, such as cathode voltage control.

III. Combination right and left hand taper. For antenna and "C" bias control.

IV. Linear taper. Used where the voltage changes proportionate to the degree of rotation.

VII. A left hand taper found only in wire-wound controls. Useful in combined antenna and bias control circuits.

REPLACEMENT VOLUME CONTROLS

Manufacturer and Model	Cat. No.	YOUR PRICE
A. C. Dayton "Navigator" Series	B9009	\$0.88
Alreastle ZA, Z5	B9010	.88
All-American Mohawk D. D. C. H. B50	B8500	1.47
60, 61, 62, 65, 66, 80, 83, 84, 85, 88, 88, 110 V. D. C., ST.	B8501	.88
	B8502	.88
Allied Radio G8545, G8547, G8549	B8509	1.47
8G9	B8531	1.47
Z4, Z5	B9010	.88
Atwater Kent 37, 37C, 37P, 38, 40, 40P, 41DC, 42, 42P, 43, 44, 44P, 45, 46, 47, 52, 53, 56, 57, 60, 61C(DC), 60, 60S (Early), 55P, 55FC (Early), 55, 55C (Early)	B8503	.29
55, 55C (Late), 60, 60C (Late), 60, 60C (2nd Type), 65, D1 (70, 74, 76), D2 (70, 74, 76), E (70, 74, 76), L1 (70, 74, 76), L2 (70, 74, 76), 81D, 55P, 55FC (Late)	B8505	1.47
H1, H2 (72)	B8506	1.47
O (76, 76)	B8507	1.47
84 (Late), 84F (Late), 87, 94, 94P	B8508	.88
810, 511, H2	B8509	.88
Balkett M.L1, M.L2, Z4, Z5	B9010	.88
Belmont 404, 405, 406, 407, 408, 409, 410, 411, 544, 545, 555, 640, 755, 770 "A"	B8510	.88
	B8511	.88
	B8512	.88
Brinwick B17 (For PR17-8, 2nd Type)	B9014	.88
Columbia 164, 16B, 152	B9015	.88
Crosley 27, 28, 48, 53, 54, 56, 57, 58, 77-1, 308, 318, 328, 348, 408, 418, 428, 438, 448, 458, 468, 478, 488, 498, 508, 518, 528, 538, 548, 558, 568, 578, 588, 598, 608, 618, 628, 638, 648, 658, 668, 678, 688, 698, 708, 718, 728, 738, 748, 758, 768, 778, 788, 798, 808, 818, 828, 838, 848, 858, 868, 878, 888, 898, 908, 918, 928, 938, 948, 958, 968, 978, 988, 998	B8516	.88
121 Series "H", 127, 127-1, 129	B8520	.88
121 Series "A", 123, 126, 126-1	B8526	.88
128, 129-1, 131, 137, 154, 160, 160-1, 162, 165, 168, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600, 605, 610, 615, 620, 625, 630, 635, 640, 645, 650, 655, 660, 665, 670, 675, 680, 685, 690, 695, 700, 705, 710, 715, 720, 725, 730, 735, 740, 745, 750, 755, 760, 765, 770, 775, 780, 785, 790, 795, 800, 805, 810, 815, 820, 825, 830, 835, 840, 845, 850, 855, 860, 865, 870, 875, 880, 885, 890, 895, 900, 905, 910, 915, 920, 925, 930, 935, 940, 945, 950, 955, 960, 965, 970, 975, 980, 985, 990, 995	B8528	1.47
130, 130-1, 132-1, 136-1	B8529	1.47
816, 889 (926), 769 (726), 1199 (1156)	B8530	.88

MALLORY-YAXLEY ENCYCLOPEDIA

\$75,000 worth of valuable information for only \$1.47. The most amazing service manual ever printed. Eliminates guess-work from servicing. Here, in one book, is the correct answer to every service question from 200 pages. Cloth-bound. 8 1/2" x 11". Wt., 2 lbs.



NET **\$1.47**

YAXLEY CATALOG AND VOLUME CONTROL GUIDE

B1800. Shows exact replacement controls for hundreds of sets. Also contains pertinent data covering condensers, rheostats, and the entire Mallory-Yaxley radio line.



FREE
The Yaxley Catalog and Volume Control Guide given free with order for Yaxley volume controls or can be secured by sending 5c to cover cost of handling.

WAXLEY VOLUME CONTROLS

REPLACEMENT VOLUME CONTROLS

Manufacturer and Model	Cat. No.	YOUR PRICE	Manufacturer and Model	Cat. No.	YOUR PRICE	Manufacturer and Model	Cat. No.	YOUR PRICE						
Detrola			Majestic			R.C.A.—(Cont'd)								
1200.....	B9016	\$0.88	20 (31), 30 (51, 52).....	B8535	\$1.47	9K, 9K2, 9T, 10K, 10T, 110-1,								
Echophone			60 (61, 62, 100 (63)).....	B8536	.88	110-1, C11-1, D11-1, T11-3,								
1800, 7114.....	B8513	.88	100 (101), 180 (181).....	B8537	1.47	C12-2.....	B8557	\$0.88						
Erla			100B (102, 103).....	B8538	1.47	C12-3, D22-1, 1890, R90P, 260,								
225, 271A.....	B9017	1.47	110 (111).....	B8539	.88	261, 280, 281, Duo 280, 1723X,								
4500.....	B8513	.88	220A (223 Comet).....	B8540	1.47	280HIT, Duo 381.....	B8558	.88						
Fada			Midwest			Sears-Roebuck								
KF (43), KO (761, 762, 764,			Miraco ISO-226.....	B9019	1.47	1800, 7106, 7111X, 7112, 7114,								
766), 43.....	B8531	1.47	Montgomery-Ward			7121.....	B8513	.88						
S, 20-36, 35B.....	B8532	1.47	AE10 (Two Types), 2655.....	B8580	1.47	1705, 1729.....	B8511	.88						
"A" (475-UA or CA, 472- UA or CA, SF45-72-UA or CA, SF45-75-UA or CA), "Special A.C." 262-CA or CA, 263-UA or CA, RP-62-UA or CA, RP-65-UA or CA, 10, 10Z, 11, 11Z, 16, 16Z, 17, 20, 30Z, 31, 31Z, 50, 50Z, 70, 71, 72, 70Z.....	B8533	.88	AG10 (Two Types), 2655.....	B8580	1.47	1715, 1720, 1721, 1722, 1722								
N250, M250Z, 15M, 15Mz, 16, M50, 17, 18D, 20, 20Z, 20Z, 25Z, 32, 32Z, 75, 77.....	B8534	.88	TG31, 62-185, 62-187, 62-190, 62-196.....	B8576	1.47	1732, 1732 (Revised), 1732X.....	B9120	1.47						
1556.....	B8513	.88	62-219, 62-194, 62-206, 62-210, 62-218.....	B8573	1.47	7065.....	B8540	1.47						
Fairbanks-Morse			62-202.....	B8575	.88	Spartan								
72 (72T, 72CL, 72C3), 73, (72T3, 72C3B).....	B9018	.88	62-20, 62-20X, 62-25.....	B9118	.88	409, 410 AC (Jr.), 410 DC (Jr.), 429 AC (Jr.), 429 DC.....	B8549	1.47						
Freshman			62-23, 62-120, 62-122, 62-138, 62-128.....	B8574	.88	(Jewell), 9A.....	B8560	1.47						
21 AC and 22 AC.....	B9019	1.47	62-369, 62-367.....	B8579	.88	AC2, AUC, 69, 79, 79A, 89, 89A, 99, 101, 109 Deluxe, 110, 111 (DC), 112 (Two Types), 301 AC, 301 DC, 301 AC, 931 AC, 931 DC, ACT, 939, 941, 949, 949.....	B8561	.88						
Galvin			62-172, 62-181 (Battery Super), 62-189, 62-211.....	B8575	.88	103, 111A, 225, 564, 564DC, 570, 570 DC, 571, 570, 600, 600 DC, 610, 610 DC, 626, 620 DC, 737, 740, 740 DC, 750 AC, 750 DC, 870.....	B8562	.88						
44, 55, 77, 77A.....	B9106	.88	62-23.....	B9119	1.47	Stewart-Warner								
General Electric			Noblitt-Sparks (Arvin)			R100A, B, E, (AC) 950 Series.....	B8563	.88						
A64, A67, A70, A75.....	B8525	.88	10A (Two Types), 15, 16, 20A (Two Types), 20B, 25, 30A (Three Types), 35 (Two Types), 45 (Two Types).....	B8539	.88	R126 Series R126A, R126B, R126C, (1261-1269).....	B8509	.88						
A82, A87.....	B9107	1.47	Philco			R127, R128A, R128B, R128C, R149 (1491-1499).....	B8543	.88						
B-10.....	B8519	.88	20, 20A, 21, 41 DC, 42 DC, 70, 71A (Below No. B-22,900), 77, 78, 80, 80 (1912-2-49), 220, 220A, 270, 270A, 470, 470A, 570 Grandfather's Clock Victor B-22,900.....	B8541	1.47	Stromberg-Carlson								
C-11.....	B8539	.88	37-604.....	B8542	.88	12, 14, 27AC.....	B8564	.88						
E22.....	B9108	.88	620, 620 (Code 121), 625, 630 620 (121), 635, 635 (Code 121), 640 (Code 121), 640X (Code 122), 645.....	B8543	.88	22, 22A.....	B8565	.88						
E22, E22, S22, S22D, S41, S41D, S242P.....	B9109	.88	816, 816 (Code 122), 125, 16, (Codes 125, 126, 127), 17 (Late), 17 (Code 121) (Late), 17, 17 (Code 122, 123), 116B (Code 121), 500, 501.....	B8544	.88	48, 49, 50, 51.....	B8566	1.47						
J80, 385, 3Z35, K62, K32, K23D, S132.....	B9110	.88	200X, 201, 500X.....	B8545	.88	150.....	B8512	.88						
C90, K64, K24D, K60, K66A1, K60, K80X, K85, K88, K88X, M50, M51, M52, M55, M55, M61, M62, M65, M68, M67, M68, M69, M81, M85, M89, M89, M106, M107.....	B8555	.88	37-116 (Codes 121, 122), 37-610 37-623, 37-620, 37-610, 37-650, 37-660, 37-670, 37-675 (Code 121-2).....	B8546	.88	635 (DC), 635, 636, 638, 638 AC, 638 DC (All Front Controls).....	B8567	.88						
C67, R69, R69P, R65, R65, K65P, K78, K79, M63.....	B8542	.88	R.C.A.			635DC, 635, 636 (All rear con- trols).....	B8568	.88						
J12A.....	B8510	.88	Victor R32, Victor RE45, Victor R35, Victor R37.	B8547	1.47	638 AC, 638 DC (All rear con- trols).....	B8569	.88						
K145, K106, R106P, R65, R65, K65P, K78, K79, M63.....	B8542	.88	Victor R14, Victor R15, Victor RE71, Radiola 42, Radiola 48, Radiola 49, Radiola 50, Radiola 51, Radiola 52, Radiola 53, Radiola 54, Radiola 55, Radiola 56, Radiola 57, Radiola 58, Radiola 59, Radiola 60, Radiola 61, Radiola 62, Radiola 63, Radiola 64 (AC), Radiola 64 (DC), Radiola 67, Radiola 7, Radiola 13, Victor 7-25 Phetrola Radiola, Radiola 18 (AC), Radiola 18 (DC), Radiola 33 (AC), Radiola 34 (AC), Radiola 51 (DC).....	B8544	.88	641, 642, 652, 654 (All front controls).....	B8570	.88						
M129.....	B8558	.88	9 tube Genera Purpose A.W. (AVR-5A), AVR-1, 5A, 5M (AVR-5A, AVR-5A, 9 tube General Purpose A.W. T, 5-2, CRDP (DC) Counter Demon- strator, M107, 117, 118, 119, 121, 122, 125, 127, 128, 128S, ACDB, 140, 141, 141E, 140, 141, 141E (Revised), 143, 211, 214, 220, 221, 222, 224, 224E, 225, 226, 240, 240 (Revised), 242, 243, 262 (Two Types), 262, 263 (1935 Production), Duo 329, Duo 321, 322, Duo 322, 322E, Duo 322E, 327, 340, 340E, 340, 340E "All Wave" Duo.....	B8545	.88	641, 642, 645, 652, 654, 846, 848 (rear controls).....	B8571	.88						
T41.....	B8546	1.47	Victor R32, Victor RE45, Victor R35, Victor R37.	B8547	1.47	848, 848 (front).....	B8572	.88						
General Motors			Victor R14, Victor R15, Victor RE71, Radiola 42, Radiola 48, Radiola 49, Radiola 50, Radiola 51, Radiola 52, Radiola 53, Radiola 54, Radiola 55, Radiola 56, Radiola 57, Radiola 58, Radiola 59, Radiola 60, Radiola 61, Radiola 62, Radiola 63, Radiola 64 (AC), Radiola 64 (DC), Radiola 67, Radiola 7, Radiola 13, Victor 7-25 Phetrola Radiola, Radiola 18 (AC), Radiola 18 (DC), Radiola 33 (AC), Radiola 34 (AC), Radiola 51 (DC).....	B8544	.88	United American Bosch								
"Little Genera" 110, 120, 130, 140 ("A," "B" between serials 29100A and 62100A, and 17000 and 19641B), 120, 130, 140 ("A," "B" above serial 62100A, 19641B), 180, 190.....	B9111	1.47	9 tube Genera Purpose A.W. (AVR-5A), AVR-1, 5A, 5M (AVR-5A, AVR-5A, 9 tube General Purpose A.W. T, 5-2, CRDP (DC) Counter Demon- strator, M107, 117, 118, 119, 121, 122, 125, 127, 128, 128S, ACDB, 140, 141, 141E, 140, 141, 141E (Revised), 143, 211, 214, 220, 221, 222, 224, 224E, 225, 226, 240, 240 (Revised), 242, 243, 262 (Two Types), 262, 263 (1935 Production), Duo 329, Duo 321, 322, Duo 322, 322E, Duo 322E, 327, 340, 340E, 340, 340E "All Wave" Duo.....	B8545	.88	28 (AC), 29 (AC), 38.....	B9121	.88						
120, 130, 140 ("A," "B" below serial 29100A-17000B).....	B9112	1.47	Wells-Gardner			ODM, 2CM.....	B8573	1.47						
1705.....	B8513	.88	5E Series (25E1, 25E2).....	B8574	.88	5E Series (25E1, 25E2).....	B8574	.88						
Goldentone			64 Series (37G508, 37G566).....	B8575	.88	7K.....	B8576	.88						
Z4, Z5.....	B9010	.88	7K.....	B8576	.88	201, 292, 293.....	B8577	1.47						
Graybar			7K.....	B8576	.88	50, 57, 57Z.....	B8578	.88						
G18, G18A, G13, G15, G17, B9109 G18, G18B, G13A, G17S.....	B8510	.88	7K.....	B8576	.88	60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.....	B8510	.88	Western Auto			Z4, Z5.....	B9010	.88
Goldentone			Zenith			10, 11, 12, 31, 32, 34P, 33, 33X, 34, 35, 35A, 35P, 35AP, 62AP, 63,								



STANDARD RADIOHM VOLUME CONTROLS

The new small size CRL Standard Control. Listing below covers practically all requirements. Only 1 1/2" dia., less than 3/4" deep without switch. With 2 1/4" x 1/2" shaft which may be cut to fit. Carbon type. See chart below for taper. Supplied with or without No. B3055 snap-on switch described below.

Less Switch No.	CRL No.	Max. Ohms	With Switch Curve No.	CRL No.	
B3025	72-118	500	1	B3060	62-118
B3026	72-107	1000	1	B3061	62-107
B3027	72-101	2000	1	B3062	62-101
B3028	72-108	3000	1	B3063	62-108
B3029	72-109	4000	1	B3064	62-109
B3030	72-110	5000	1	B3065	62-110
B3031	72-204	5000	6	B3066	62-204
B3032	72-139	7500	1	B3076	62-139
B3033	72-114	10000	1	B3077	62-114
B3034	72-113	10000	1	B3078	62-113
B3035	72-205	10000	4	B3079	62-205
B3036	72-100	10000	0	B3070	62-100
B3037	72-105	15000	1	B3071	62-105
B3038	72-106	15000	3	B3072	62-106
B3039	72-119	20000	3	B3073	62-119
B3040	72-111	25000	1	B3074	62-111
B3041	70-206	25000	1	B3075	62-206
B3042	72-102	25000	3	B3077	62-102
B3043	72-103	50000	1	B3078	62-103
B3044	72-117	50000	1	B3079	62-117
B3045	72-123	50000	6	B3080	62-123
B3046	70-202	75000	4	B3081	62-202
B3047	72-104	100000	1	B3082	62-104
B3048	72-122	100000	4	B3083	62-122
B3049	72-136	150000	6	B3084	62-136
B3050	72-120	200000	1	B3085	62-120
B3051	72-121	250000	4	B3086	62-121
B3052	72-105	500000	6	B3087	62-105
B3053	72-108	500000	2	B3088	62-108
B3054	70-203	500000	2	B3089	62-203
B3055	72-140	750000	6	B3090	62-140
B3056	72-118	1 Mva.	8	B3091	62-118
B3057	72-132	2 Mva.	8	B3092	62-132
B3058	72-132	3 Mva.	8	B3093	62-132
B3059	72-132	3 Mva.	8	B3094	62-132
B3060	72-132	3 Mva.	8	B3095	62-132

NET EACH CONTROL	WITH SWITCH CONTROL
5 for \$2.65	5 For \$3.95
B3059 72-138 250000	B3098 62-138
B3057 72-134 500000	B3092 62-134
B3058 72-135 1 Mva.	B3093 62-135
B3016 72-142 2 Mva.	B3099 64-142
NET EACH 88c	NET EACH \$1.18

RADIOHM SWITCH COVER
Underwriters approved. Bakelite insulated switch mounted on snap-on type plate.
B3095. NET EACH..... 29c

SPECIAL SWITCH COVERS
B3210. S.P.D.T. 3 Terminal Switch, 35c
B3211. D.P.S.T. 4 Terminal Switch, EA. 35c

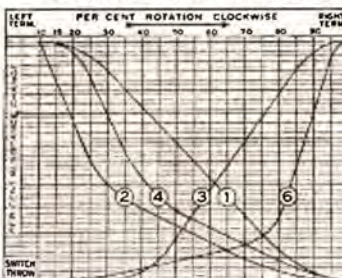
REPLACEMENT VOLUME CONTROLS

A very thorough listing of the latest line of Centralab Replacement Volume Controls. Designed to replace original units effectively. If the control you require is not listed, write to us stating the name and model set with tube lineup, or send in the old control, and we will supply correct replacement.

Manufacturer and Model	Cat. No.	NET	Manufacturer and Model	Cat. No.	NET
Allied Radio (See Knight)			General Motors Radio (Day-Fan)		
4890, 4890A, 424, 534.....	B3052	\$0.59	5065, 5065, 5057, GDC, 110		
37, 38, 40, 42, 52, 41, 43, 44	B3106*	.88	6-MG.....	B3039	\$0.59
45, 43, 47.....	B3106*	.88	8AC, 8077, 5050.....	B3042	.59
60, 60C, 70 (D & L Chassis),	B3106*	.88	AJ505, A505, 218, 217, 219, B3043	B3043	.59
76 (D & L Chassis), 87D	B3106*	.88	150, 160, "A", "D".....	B3127*	1.47
(P. Chas. 74 Series).....	B3105*	1.76	72.....	B3031	.59
H2 Series 72, H1 Series.....	B3107*	1.47	2085, 5004, 5010, 5001, 5048, B3035	B3035	.59
70 & 76 (Q Chassis).....	B3108*	1.47	120A, 130, 140, 110, 1K, 350, B3126	B3126*	1.47
80, 83, 217, 248, 275, 310, 307	B3122*	1.18	211-89A, 808, 838, 200, 201		
418, 555, 708, 82D, 188,			S-1-A, 216, 217, 219, 250.....	B3078	.88
228, 220, 467, 206, 612,			1000, 105, 250.....	B3130	1.47
647, 808, 812, 839, 92.....	B3047	.88	S-11-D, 1095, 250.....	B3078	.88
67, 67C.....	B3087	.88	220, S-10-A, 10-B.....	B3071	.88
511.....	B3037	.88	S-2-B, S-3-A, S-3-B, 251-B, B3067	B3067	.88
544, 567F.....	B3703	.88	General Homebrand (CtL)		
544.....	B3073	.88	590.....	B3087	.59
			501.....	B3055	.59
			1101.....	B3148*	1.18
			Chassis, 6C, 22.....	B3148*	1.18
			7-5.....	B3149*	1.18
Brunswick			4-B, 4-IX, 4-C Chassis.....	B3024	.59
10 Midcet.....	B3121*	1.18	5-0, 6-C, 6-D, 6-E, 6-F, 6-G, 6-H,		
14, 21, 31 Panatone.....	B3076	.88	610, 641, 680, 681.....	B3144*	1.18
			6D, 8D Chassis.....	B3093*	1.18
			Howard Radio		
			NO-A, 80-A.....	B3148*	1.47
			80-B, 100, 101, 35A-C, 40.....	B3035	.59
			X2, X3, X4, Z4.....	B3087	.88
			Kennedy, Colin B., Corp.		
			Roval 60, 80.....	B3052	.59
			2807, 19, 60, 62.....	B3152*	1.18
			31, 30, 32, 50, 52, 56.....	B3032	.59
			26, 520, 826, 36, 38, 40.....	B3129*	1.47
			Knight Allied Radio Corp.		
			8-7, 4-D, Tube Super.....	B3028	.59
			8G9.....	B3076	.88
			8G9.....	B3154*	1.76
			8G10.....	B3155*	1.18
			8C5.....	B3046	.59
			7 Tube Super (108).....	B3069	.88
			9 Tube Super (114).....	B3087	.59
			7 Tube Super (114), (Tone Cont.) B3044	B3044	.59
			Kolster Radio (Columbia Photo)		
			110, 23, 24.....	B3044	.59
			50-C, 60, 62, 610, 615, 616,		
			502, 961.....	B3042	.59
			Cl, C9, C2, C4, C5, C6, C7,		
			40-60, 70, 80, 90, 920.....	B3055	.59
			K42, K43, K44, K45.....	B3157*	1.47
			200, K40, Comb.....	B3154*	1.76
			100 Series.....	B3068	.88
			80, 80, 90 Series.....	B3065	.88
			70, 80, 90 Series.....	B3071	.88
			32-31.....	B3069	.88
			Majestic (Grigsby Grundon)		
			70, 701, 71, 72.....	B3131*	.88
			180, 181.....	B3032	1.47
			180, 51, 55.....	B3133*	.59
			50, 51, 55.....	B3133*	1.47
			90, 91, 92, 180, 321 (Equal-izer).....	B3134*	.88
			90 Series.....	B3135*	.88
			120A, 130, 131, 132.....	B3136*	1.76
			25, Early 101, 252, 254.....	B3138*	.88
			120, 121, 122.....	B3139*	1.18
			120, 121.....	B3141*	1.47
			80 Series, 100.....	B3142*	.88
			210, 211, 212, 215.....	B3143*	.88

* Exact Duplicate Control.

STANDARD CENTRALAB RESISTANCE 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 (CtL) Control listing above. Standard applications of each curve are as follows: (1) Voltage divider with uniform resistance change, (Pot.), (2) "C" bias rheostat (H.I.), (3) Antenna and "C" bias of one tube (H.I.), (4) Antenna and "C" bias of two tubes (H.I.), (5) Audio relay, antenna shunt, or tone control (H.I.), Curves shown are arranged to indicate minimum volume at the left and maximum volume at the right. The figures at the left of the curves indicate percentage of resistance change; figures at top indicate percentage of clockwise rotation. Refer to this chart when ordering volume controls.

VOLUME CONTROL GUIDE

The new completely revised CRL Volume Control Guide. Packed with valuable information for every Serviceman should have a reference. Larger than ever. Contains 168 pages of up-to-the-minute information. Some of the features are: 400 individual types of radio set listings covering 7000 different models; a complete list of numbers listed in numerical order with tone and warden band switch listing; new Economy P.A. controls; control information on late 1936 and early 1937 sets. FREE on request with every order for CRL volume controls.

B3099. IF ORDERED SEPARATELY..... 10c



NEW ELECTRAD STANDARD VOLUME CONTROLS

Carbon resistance element permanently fused to the flat outer rim of a strong Bakelite ring.

Mechanism provides 300-degrees of continuous rotation in a straight path.

Long bronze tension spring. Special alloy floating control travels end-wise without chattering.

Standard metal cover held by one screw. Instantly interchangeable with power switch assembly.

Long aluminum shaft easily sawed or filed to desired length. Saves time and labor.

Molded Bakelite case protects mechanism and resistance element from dust and moisture.

Body of control extends only 1/8" back-panel, when mounted. Case only 1 7/8" wide.

New-type power switch assembly (approved by underwriters) interchangeable with standard cover.

LATEST ELECTRAD LINE OF STANDARD VOLUME CONTROLS

Smooth, quiet, and long-lived. Unaffected by moisture. Contact shoe is self-wiping type increasing smoothness and quietness with use. Housed in molded bakelite case, 1/8" thick, 1 7/8" dia., with metal end cover and long 1/2" dia. aluminum shaft. New type convertible power switches (described below) may be easily added. All controls marked "W" are wire-wound.

CAT. NO.	MFG. TAPER CURVE	TOTAL RES.	CAT. NO.	MFG. TAPER CURVE	TOTAL RES.
B4200	204W D	10	B4240	895W D	10000
B4201	269W D	20	B4241	996 F	10000
B4202	270W D	30	B4242	219 C	10000
B4203	271W D	50	B4243	573 A	12000
B4204	272W D	100	B4244	875 A	12000
B4205	273W D	200	B4245	281 H	15000
B4206	274W D	400	B4246	809 C	20000
B4236	561W D	500	B4220	270 D	25000
B4207	282W D	600	B4221	241 F	30000
B4208	275W D	800	B4222	277 F	30000
B4209	276W D	1000	B4223	295 F	50000
B4237	982W D	1500	B4224	202 A	75000
B4210	228W D	2000	B4225	242 A	100000
B4211	233W D	3000	B4226	282 A	200000
B4212	277W D	4000	B4227	308 A	250000
B4213	278W D	5000	B4228	250 E	500000
B4214	278 E	5000	B4229	296 E	1 Meg.
B4238	963W D	6000	B4246	990 E	2 M-g.
B4239	964W D	7500			
B4215	560 E	7500			
B4216	283 D	10000			

List, Each Standard Volume Control, \$1.00.
YOUR NET PRICE, EACH.

FADER CONTROLS (With Control Tap)		CONTROLS WITH TONE TAP	
B4160	E 250,000	B4248	E 500,000
B4161	E 250,000	B4249	E 1 Meg.
B4162	E 500,000	B4247	E 2 Meg.

NET, EACH. **59c**

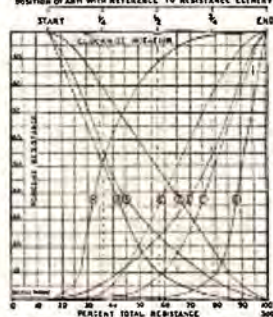
DUAL CONTROLS FOR PUSH-PULL GRIDS FOR AUDIO AMPLIFIER USE	
B4165	582T E 250,000
	582T E 500,000

List, Each, \$2.50. NET, EACH. **\$1.47**

POWER SWITCHES FOR ELECTRAD CONTROLS

B4231, S.P.S.T. Type.	B4233, S.P.D.T. Type.	B4234, D.P.S.T. Type.
Standard "On-Off" Switch with 2 terminals.	Phone-Radio Switch, Has 3 terminals.	Breaks 2 circuits. Used in battery radio.
List, 50c. NET. 29c	List, 60c. NET. 35c	List, 60c. NET. 35c

Position of Arm with REFERENCE TO RESISTANCE ELEMENT



ELECTRAD TAPER CHART
Use this chart for determining which Electrad standard replacement control is correct for the circuit. A—Cathode bias control. B—Cathode series control. C—Antenna Shunt or Antenna and bias control. D—Voltage divider. E—Antenna and "C" bias. Audio Shunt and Tone Control. G—Audio Shunt. H—Antenna Cathode heavy current control. Refer to this chart when ordering Electrad standard controls.

ELECTRAD VOLUME CONTROL GUIDE

Larger and more complete than any previous edition. Over 140 names of valuable information and data with a complete list of manufacturers' and set models. Provides handy reference chart for replacing almost any volume control. Yours FREE for one ELEC-TRAD carton top. Send carton top direct to the P. R. Mallory Co., Indianapolis, Ind.



REPLACEMENT VOLUME CONTROLS

Manufacturer and Model	Cat. No.	YOUR PRICE
Allied Radio (See Knight)		
American Bosch Magneto	B4217	\$0.59
Model 5		
46DC, 27 Ambrola, 16 Ambrola, 35 Crusiers, 57, 87, 66, 76	B4200	.59
10 Essex, 96, DC-96, 146, 100, 176, 46AC, 128, 107, 116	B4228	.59
28, 20	B4211	.59
85, 200, 201, 205, 206, 210, 211	B4250*	.88
58, 62AC, 62DC	B4251*	1.18
40, 41AC, 251, 350, 355, 360, 370	B4253*	1.18
4 Essex, 7, 7C, 1A, 20, 20J, 20K, 20L, 31, 32, 37, 39	B4254*	1.18
87, 84	B4255*	.88
10, 61, 63	B4256*	.88
109 (Auto Radio)	B4257*	.88
45-AC, 49, 54DC	B4258*	1.18
55 (Tone Control)	B4228	.59
210, 312 (Tone Control)	B4225	.59

F. A. D'Andrea (Fada)

41, 42, 44, 46, 47	B4229	.59
73, 74, 76, 79, 83, 85, 88, 89, KY,	B4229†	.59
RA, RC, RE	B4229†	.59
45, 45RU, 51, 53, 57, KX61	B4216	.59
SP-50/80, 22	B4200	.59
7AC, 45/72, 10, 11, 31, 10Z, 71, 72, 47, 47A, 50A	B4259*	.88
RP62A, RP62A, RP65CA, RP65CA, 262CA, 262UA, 265CA, 265TA	B4260*	.88
265CA, 265TA, 32Z, 32Z, 18DC, 20, 20Z, 25, 25Z, 15M, 15MZ, 75,	B4262*	.88
475	B4263*	.88
48, 49, 86KH	B4228	.59
18KW, 49KW, Flashograf	B4215	.59
150, KCL, 50L, 850CA	B4218	.59
18, 75Z, RG, KF	B4264*	1.47
RC Chassis Used in 78, 79 He-celvers	B4265*	1.47

Atwater Kent

70, 74, 76, Series D, F, L-1, L-2, Y	B4267*	1.47
55, 55C, 50F, 55FC, 56, 57, 60, 60C, 61, 61C, 60 (Strip)	B4278*	.29
55, 55C, 55F, 55FC, 56, 57 (Late Models)	B4269*	1.47
82, 82F, 85, 85F	B4270*	1.47
80, 80F, 83, 83F, 90, 90F	B4272*	1.18
86 All Types	B4274*	1.18
82DC	B4273*	1.18
85Q	B4276*	1.18
44, 46, 47, 51, 53, 52 (Strip)	B4277*	.29
424, 534, 810	B4228	.59
Early 81, 81F, 84D, 84G	B4358*	1.18

Brunswick Balke Collender Co.

14, 21, 31	B4357*	1.18
PH 17-8, PH7	B4382*	.88
R-1, 2KR, 2KR0, 2KR3, 2KR0, 2KR6, 2KR8, 5KR, 5KR0, 5KR3, 5KR8, 5KR0, 5KR3	B4283*	.88
17, 24, 25, 49A, 4A, D11, D12, D18, D19, D23	B4228	.59
Battery radio	B4285*	1.18
DC-14, DC-21, DC-31	B4213†	.59
Below Serial No. 25000-11, 12		
10, 23	B4286*	.88
81, 82†	B4224	.59
Phonotone (Phono Control)	B4287*	.88
PR-6	B4200	.59
92	B4210†	.59

Columbia Radio (See Knight)

Crosley Radio Corp.		
X1, 2R8, 4-29, 6-60, 6-85, RP150, 401A, 20 Pat., 21 Pat., 22 Pat., 5-28, 6-75	B4290	.59
400, 410, 420	B4292*	.88
600, 600 (110V) Inch Shaft	B4292*	.88
804 Jewel Box (Long Shaft)	B4293*	.88
Huddy China	B4206	.59
Models—89S, 418, 428, 458, 4628A*	B4284*	.88
AC-7, AC-7C	B4207	.59
71A, Early Models—488, 418, 428, 458	B4295*	.88
121, 121-1, Series B, 127, 01, Auto Phonola, 50, 75	B4228	.59
72, 54, 72, 58, 110V Inch Shaft	B4297*	.88
Early 704	B4298*	.88

* Exact Duplicate Control.
† Requires "On-Off" Switch, B4231.

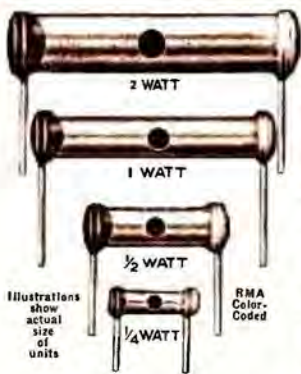
VOLUME CONTROLS

LATEST REPLACEMENT VOLUME CONTROLS

Manufacturer and Model	Cat. No.	YOUR PRICE	Manufacturer and Model	Cat. No.	YOUR PRICE	Manufacturer and Model	Cat. No.	YOUR PRICE										
Crosley Radio Corp.—(Cont'd)			Montgomery Ward & Co.			Sears, Roebuck & Co.—(Cont'd)												
124, 125	B4296*	\$1.18	2832 Baltoa, 2327, 2895 DeSoto	B4206	\$0.59	1708, 1709, 1720, 1725, 7065...	B4403*	\$1.47										
Early Models—41A, 42, 61, Female Shaft—608, 610 Gem Box, 602 Hand Box, 704 Jewel Box, 705 Show Box, 706 Show Box	B4289*	.88	1111, 811, 111X, 811X, 811X, 811X, First Type 62-926, First Type 62-29	B4218	.59	7091, 7092, 7093, 7094, 1713, 1714, 1715, 1716, 1717, 1718, 1722, 1732 (Tone Control)	B4404*	1.18										
Early 706 (Long Shaft)	B4300*	.88	3035, 3037, 3063, 3067, 3522, 1502, 2097, 62-520, Model 49, 267, 267X	B4219	.59	1704, 1706, 1707, 7070, 7071, 7072	B4405*	.88										
59, 52	B4301*	.88	1355, 1956, Recital	B4229	.59	1703, 7064	B4406*	1.18										
59A-C	B4302*	.88	187, 187	B4214	.59	1710	B4408*	.88										
41, 41A, 42, 705DC, 706 Show Box (Long Shaft)	B4303*	.88	21W Chassis (Tone Control)	B4223	.59	1715, 709, 1714	B4409*	.88										
704B	B4304*	.88	21W Solo (Tone)	B4229	.59	1717, 709	B4410*	.88										
Super Hundy 122, Johnny Smoker, 131	B4210	.59	Commander & Cavalier (Tone Control), 62-21, 62-22, Second Type 62-29, 62-29, 1932 Auto	B4228	.59	1725, 1750 (Tone Control)	B4411*	1.18										
General Motors Radio Corp.			Philo Radio			Simplex												
Six Junior, 6-C1, 6B, 5050, 5053, 25	B4200	.59	40D-C	B4207	.59	P	B4351*	.88										
Day Fun, 6-C, 5053, 5091, 5077, 5090, 72	B4219	.59	82, 5, 96, 87, 511, 521, 531, 543, 551, 551A, 551, 571, 581	B4363*	.88	P Batt., P-32 Volt	B4352*	.88										
Chassis 51A, 51B, 216, 217, 219, 220	B4315*	1.18	15	B4228	.59	P	B4354*	.88										
Chassis 52A, 52B, Models 251, 252, 253, 254, 255, 256, 257, 258	B4316*	1.18	71 Series	B4399*	.88	W	B4355*	.88										
Chassis 53A, 53B, 53B, Model 251 (Tone Control)	B4317*	.88	45, 20, 20A, 90A, Lazy Boy 370, 370A, 470, 470A, 570, 570A	B4364*	1.47	T-Auto	B4413*	1.18										
Chassis 54A, 54B, Models 252, 253, 254, 255, 256, 257, 258 (Late Model Tone Controls)	B4319*	.88	Models 95, 95	B4355*	.88	Spartan Radio												
Chassis 59A, 59B, Model 211	B4320*	.88	212A, 212B, 219 Batt., 96, 96A, 111, 111A, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 100, 103, 130, 130A, 131, 132	B4322*	1.18	Models 51, 51A, 48DC, 52	B4412*	.88	5-9, 2-6, 5-15, 6-26, 6-15	B4200	.59							
1901 Early	B4323*	1.47	62	B4211	.59	590, 511, 806	B4324*	.59										
11-6-MG, 250, 250C, 250S, 250T, 5052	B4213	.59	53	B4369*	1.18	599, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000	B4223	.59	57	B4371*	1.18	590A, R100A, R100B, R100E	B4325*	.88				
A-5005, A-5020	B4223	.59	19 (Code 128)	B4372*	.88	801B	B4326*	.88										
Gibson-Grinnow Co. (Majestic)			R. C. A. Victor Co.			Stewart-Warner Corp.												
25 Tube	B4217	.59	Radiala 16, 20	B4378*	.88	Models 950DC, 980, Battery-950, 970, R100C	B4424*	1.47										
70, 70B, 71, 72	B4358*	.88	Radiala 17, 50, 41D-C, 7-25, 7-54	B4282*	.88	900, 811, 806	B4324*	.59										
90, 90B, 91, 92	B4359*	.88	Radiala 18, 20, 33D, C, 7-15	B4283*	.88	599, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000	B4359*	.88	Radiala 19, 20, 33D, C, 7-15	B4283*	.88	599, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000	B4360*	.88	Radiala 20, 20A, 220, 21, 41DC, 42DC, 71, 77A, 220A	B4367*	1.47	599, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564,



Carbon Resistors



Illustrations show actual size of units

RMA Color-Coded

HIGHEST STANDARD OF QUALITY

ASSURED ACCURACY

- SOLID MOLDED; PERMANENTLY BONDED.
- TOLERANCE AVERAGE CLOSE TO 5%.
- ABSOLUTELY QUIET IN OPERATION.
- COMPLETELY MOISTURE-PROOF.
- NON-INDUCTIVE—NO CAPACITY EFFECT.
- MAINTAIN RESISTANCE VALUES OVER WIDE TEMPERATURE RANGE.
- OXYGEN-WELDED TINED LEADS.
- NO FINER CARBON RESISTORS MADE.

The finest carbon resistors you can buy at any price. Use these highest quality units with confidence in any I.P. or Audio circuit. No other resistor is so universally used. Knight Carbon Resistors are of solid molded construction, permanently bonded, with solid cross-section. Impervious to moisture, quiet in operation, non-inductive, have low temperature coefficient; are mechanically strong. They will carry 100% overload without being permanently affected. Each resistor is RMA Color Code. The tolerance of each and every Knight Carbon Resistor is held within 10% (average close to 5%) by utilizing automatic testing machines. Save and profit by using Knight highest standard Carbon Resistors—the resistor units with the outstanding features.

HANDY KNIGHT RESISTOR KITS

These resistor kits are a handy asset in the shop or on service calls. Each kit is a carefully selected assortment of the most popular values of Knight quality Carbon Resistors. All units are RMA color-coded, and neatly mounted on a convenient sturdy strip. Each strip has a hole in one end for hanging on a nail or hook over your service bench.

12 POPULAR VALUES IN EACH STRIP

12 certified high quality Knight resistors of the types most frequently used in service work are included in the handy Resistor Kit assortments listed below. Replace resistors as you use them by ordering additional strips of units from our regular Knight stock listed at left. This assures you of a complete range of values at all times. Free RMA color-code chart is included with each kit.

1/2 WATT KITS

BS125. Consists of one each of the following:

OHMS	OHMS	OHMS	OHMS
200	200	4000	16000
400	1000	6000	12500
500	2000	6000	15000

BS126. Consists of one each of the following:

OHMS	OHMS	OHMS	OHMS
20000	25000	100000	1 mfg.
20000	50000	250000	2 mfg.

YOUR PRICE, EITHER 1/2 WATT KIT..... **49c**

1 WATT KITS

BS127. Consists of one each of the following:

OHMS	OHMS	OHMS	OHMS
200	700	7000	10000
400	1000	4000	12500
500	2000	6000	15000

BS128. Consists of one each of the following:

OHMS	OHMS	OHMS	OHMS
20000	40000	75000	500000
250000	500000	1000000	1 mfg.
200000	500000	2500000	2 mfg.

YOUR PRICE, EITHER 1 WATT KIT..... **60c**



HANDY RMA COLOR CODE GUIDE

A handy pocket-size celluloid guide with rotary dials which show body, end and dot colors of resistors according to standard RMA color code. Gives resistance value quickly and easily; eliminates figuring.

BS130. YOUR PRICE..... **9c**

FREE with order for resistor kit or 24 assorted resistors.

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.
100	B4850	B4950	B5050	B5150	17500	B4882	B4982	B5082	B5182
150	B4851	B4951	B5051	B5151	20000	B4883	B4983	B5083	B5183
200	B4852	B4952	B5052	B5152	22500	B4884	B4984	B5084	B5184
250	B4853	B4953	B5053	B5153	25000	B4885	B4985	B5085	B5185
300	B4854	B4954	B5054	B5154	30000	B4886	B4986	B5086	B5186
350	B4855	B4955	B5055	B5155	40000	B4887	B4987	B5087	B5187
400	B4856	B4956	B5056	B5156	40000	B4888	B4988	B5088	B5188
450	B4857	B4957	B5057	B5157	45000	B4889	B4989	B5089	B5189
500	B4858	B4958	B5058	B5158	75000	B4890	B4990	B5090	B5190
600	B4859	B4959	B5059	B5159	100000	B4891	B4991	B5091	B5191
700	B4860	B4960	B5060	B5160	150000	B4892	B4992	B5092	B5192
800	B4861	B4961	B5061	B5161	200000	B4893	B4993	B5093	B5193
900	B4862	B4962	B5062	B5162	200000	B4894	B4994	B5094	B5194
1000	B4863	B4963	B5063	B5163	300000	B4895	B4995	B5095	B5195
1250	B4864	B4964	B5064	B5164	400000	B4896	B4996	B5096	B5196
1500	B4865	B4965	B5065	B5165	500000	B4897	B4997	B5097	B5197
1750	B4866	B4966	B5066	B5166	500000	B4898	B4998	B5098	B5198
2000	B4867	B4967	B5067	B5167	1000000	B4899	B4999	B5099	B5199
2250	B4868	B4968	B5068	B5168	1 mfg.	B4900	B5000	B5100	B5200
2500	B4869	B4969	B5069	B5169	1 mfg.	B4901	B5001	B5101	B5201
3000	B4870	B4970	B5070	B5170	1 mfg.	B4902	B5002	B5102	B5202
3500	B4871	B4971	B5071	B5171	1 mfg.	B4903	B5003	B5103	B5203
4000	B4872	B4972	B5072	B5172	1 mfg.	B4904	B5004	B5104	B5204
4500	B4873	B4973	B5073	B5173	1 mfg.	B4905	B5005	B5105	B5205
5000	B4874	B4974	B5074	B5174	1 mfg.	B4906	B5006	B5106	B5206
6000	B4875	B4975	B5075	B5175	1 mfg.	B4907	B5007	B5107	B5207
7000	B4876	B4976	B5076	B5176	1 mfg.	B4908	B5008	B5108	B5208
8000	B4877	B4977	B5077	B5177	1 mfg.	B4909	B5009	B5109	B5209
9000	B4878	B4978	B5078	B5178	1 mfg.	B4910	B5010	B5110	B5210
10000	B4879	B4979	B5079	B5179	1 mfg.	B4911	B5011	B5111	B5211
12500	B4880	B4980	B5080	B5180	1 mfg.	B4912	B5012	B5112	B5212
15000	B4881	B4981	B5081	B5181	1 mfg.	B4913	B5013	B5113	B5213

1 1/4 WATT	1 1/2 WATT	1 WATT	2 WATT
Each	4c	5c	6c
Per Doz.	42c	49c	60c
Per 100	\$3.50	\$4.00	\$4.85

1 WATT	2 WATT
Each	10c
Per Doz.	99c
Per 100	\$4.00

KNIGHT CARBON RESISTOR KITS—BUY THEM! EACH KIT CONTAINS 24 POPULAR VALUES—SAVES YOU MONEY

- HIGHEST QUALITY CARBON RESISTORS
- SAVES YOUR TIME AND YOUR MONEY
- MOST POPULAR VALUES IN EACH KIT
- CONVENIENT—FOR TOOL KIT OR BENCH

Highest quality Knight Carbon Resistors that assure long, dependable service. Packed in handy kits of 24 units. Each kit has an assortment of the most commonly used and needed values. Combining 2 or more units will provide any value not listed. All resistors are RMA color-coded. A handy Color Code Guide is supplied free with each kit.

Carry a set of compact Knight Carbon Resistor Kits in your tool bag; keep another set on your service bench, and you'll always have the resistor you need just when you want it. Keep your kits up-to-date by replacing used units from the complete Knight Resistor listing above. Save money with Knight Resistor Kits!

EACH KIT CONSISTS OF THE FOLLOWING VALUES:

OHMS	OHMS	OHMS	OHMS	OHMS	OHMS
200	2,000	10,000	25,000	50,000	250,000
400	3,000	12,500	30,000	75,000	500,000
500	4,000	15,000	40,000	100,000	2 mfg.

FREE—HANDY CELLULOID COLOR CODE GUIDE WITH EACH KIT

1 WATT KIT	1/2 WATT KIT	1/4 WATT KIT
Consists of one each of the above resistors in 1 watt size.	Consists of one each of the above resistors in 1/2 watt size.	Consists of one each of above resistors in 1/4 watt size.
YOUR PRICE..... \$1.25	YOUR PRICE..... \$1.03	YOUR PRICE..... 88c



All Popular Values

Order an assortment of these high-grade money-saving kits. You can't beat them for convenience, for quality and for savings.

IRC RESISTORS



IRC METALLIZED TYPE "F" RESISTORS

Quiet, metallized type resistors for use in critical circuits. Absolutely dependable famous IRC quality. Standard with leading manufacturers and radio servicemen. Order resistors wanted from list below, specifying resistance and giving stock number shown under each type.

STANDARD RANGES

OHMS	OHMS	OHMS	OHMS
50	2000	12500	200000
100	2250	15000	250000
200	2500	17500	300000
250	3000	20000	400000
300	3500	25000	500000
350	4000	30000	750000
400	5000	40000	1 Meg.
500	6000	50000	1.5 Meg.
600	7000	60000	2 Meg.
700	750	65000	3 Meg.
800	8000	70000	5 Meg.
1000	9000	75000	6 Meg.
1250	10000	100000	7 Meg.
1500	11000	150000	10 Meg.

1/2 WATT.

B5700. F-1/2, 1 1/4" long. Pigtail type. 50 OHMS to 5 MEG. List. Each, 17c.

NET EACH **10c**

SPECIFY VALUE WHEN ORDERING

1 WATT.

B5701. F-1, 1 1/4" long. Pigtail type. 100 OHMS to 10 MEG. List. Each, 20c.

NET EACH **12c**

SPECIFY VALUE WHEN ORDERING

2 WATTS.

B5702. F-2, 1 1/4" long. Pigtail type. 50 OHMS to 5 MEG. List. Each, 30c.

NET EACH **18c**

SPECIFY VALUE WHEN ORDERING



IRC METALLIZED RESISTOR KITS

Handy kits containing an assortment of the most popular values of the BT type insulated metallized resistors. Packed in neat, compact containers, of durable construction.

STANDARD 1 WATT KIT

B5715. Ten of the most used values of the popular type BT-1 fully insulated IRC resistors, in a handy container which can easily be carried in your pocket. Resistor values not included may be easily obtained by using two or more of the units in this kit. List. Each, 30c.

NET **\$1.18**

STANDARD 1/2 WATT KIT

B5716. An especially handy assortment of ten type BT-1/2 resistors, consisting of the most popular values. Ideal for midjet receiver servicing. List. Each, 20c.

NET **\$1.00**

DELUXE 1 WATT KIT

B5717. A larger assortment of the most popular values of the type BT-1 resistors. Consists of 20 resistors of practical, most often used values, packed in a permanent container, with a distinctive space marking for each unit. Ideal for the service kit. List. Each, 40c.

NET **\$2.35**

NEW IRC INSULATED TYPE "BT" METALLIZED RESISTORS

- Crack-proof and Trouble-free
- Completely Sealed Against Moisture
- Sealed in High Voltage Insulation

An improved new resistor design makes these units outstanding and desirable in every way. The metallized resistor element is sealed in completely by a special high voltage insulating material which absolutely eliminates danger of grounding. The heavy casing of insulating mater-



rial makes these new units crack-proof and trouble-free. Accurate, durable and safe. The quiet performance of these new type resistors renders them ideal for use in AVT circuits, high gain amplifiers, etc. Each unit is color-coded, and marked with resistance value.

STANDARD STOCK RANGES

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	40	500	3000	11000	35000	150000
2	50	600	3500	12000	40000	200000
3	100	750	4000	12500	50000	250000
5	150	800	5000	15000	60000	300000
7.5	200	1000	6000	17500	65000	400000
10	250	1250	7000	20000	70000	500000
15	300	1500	7500	22500	75000	600000
20	350	2000	8000	25000	100000	750000
25	400	2250	9000	30000	125000	1 meg.
30	450	2500	10000			20 meg.

Type BT-1/2-1/2 Watt

B5705. Available in all ranges from 1 OHM to 20 MEG OHMS. (Values below 500 ohms are insulated wire wound resistors.) Size 1 1/4" x 1/4" dia. List. Each, 17c.

NET EACH **10c**

Type BT-1-1 Watt

B5706. Available in all ranges from 1 OHM to 20 MEG OHMS. (Values below 500 ohms are insulated wire wound resistors.) Size 1 1/4" x 1/4" dia. List. Each, 20c.

NET EACH **12c**

Type BT-2-1 Watt

B5707. Available in all ranges from 1 OHM to 20 MEG OHMS. (Values below 500 ohms are insulated wire wound resistors.) Size 1 1/4" x 1/4" dia. List. Each, 30c.

NET EACH **18c**



NEW IRC RESISTANCE INDICATOR

A new calibrated continuously variable Resistance Indicator. Used to protect against overloads. Direct-reading etched scale covers entire range from zero to 1 Megohm. Equipped with four flexible leads permitting it to be used as a voltage divider; may also be used for determining circuit values by substitution; for checking resistor units, potentiometers and volume controls. Will perform a number of functions and speed up replacement of defective resistance units. Housed in a sturdy molded bakelite base; has mounting feet for permanent installation on service bench. Supplied complete with four color-coded leads, alligator clips, and instructions.

B5712. **\$4.85**
YOUR NET PRICE.....

FREE-NEW IRC RESISTO-CHEST

With Purchase of 50 Resistors

By ordering 50 of the new Type BT-1 watt resistors, any values listed above, you get this handy chest. Just the thing for your service bench. Chest measures 3 1/2" high, 4 1/2" wide, 3 1/2" deep; has 7 small drawers, 1 large drawer. Will hold several hundred resistors. B5714. RESISTO-CHEST and 50 BT-1 watt resistors. **\$6.59**

RESISTO-CHEST ONLY
The above handy drawer-chest by itself, no resistors included. A real value at this price. B5713. **YOUR PRICE 90c**



IRC POWER WIRE-WOUND RESISTORS

- Heavy Ceramic Core
- Accuracy Within 5%

High quality wire-wound units of sturdy construction. Finest resistance wire is evenly spaced on non-hydro-cyclic ceramic core. Durable re-lead provides protection against extreme heat and humidity. With tinned wire leads.



Resist. Ohms	Type AB 10 Watt No.	Type AB 20 Watt No.	Resist. Ohms	Type AB 10 Watt No.	Type AB 20 Watt No.	Resist. Ohms	Type DG 10 Watt No.	Type DG 20 Watt No.
1	B5750	B5925	100	B5761	B5931	3000	B5772	B5942
2	B5751		200	B5762	B5932	4000	B5773	B5943
3	B5752		300	B5763	B5933	5000	B5774	B5944
5	B5753	B5926	400	B5764	B5934	7500	B5775	B5945
7.5	B5754		500	B5765	B5935	10000	B5776	B5946
10	B5755	B5927	750	B5766	B5936	12500	B5777	B5947
15	B5756		1000	B5767	B5937	20000	B5778	B5948
20	B5757		1250	B5768	B5938	25000	B5779	B5949
25	B5758	B5928	1500	B5769	B5939	30000	B5780	B5950
50	B5759	B5929	2000	B5770	B5940	40000	B5781	B5951
75	B5760	B5930	2500	B5771	B5941	50000	B5782	B5952

TYPE AB-10 WATTS

Available in all ranges up to 50,000 ohms. Extremely popular among Servicemen and Experimenters for making up voltage divider networks. 1 1/2" long; 3/4" dia. Heavy tinned leads for easy connection. List. Each, 40c. NET EACH **24c**

TYPE DG-20 WATTS

Available in all ranges up to 50,000 ohms, 2" long; 3/4" dia. For all types of installations. 1-15,000 Ohm Units. NET EACH **38c**
20,000 to 50,000 Ohm Units. NET EACH **44c**

MALLORY ADJUSTABLE RESISTORS



15 x 6 1/2" - 80 WATTS



1 1/2 x 4" - 30 WATTS



1 1/2 x 2 1/2" - 25 WATTS

VARIOHM RESISTORS

Wire wound on sturdy porcelain tube, covered with vitreous enamel. Exposed a narrow track which makes contact with slider. Model metal lugs assure permanent connection. Wattage rating conforms to N. E. M. A. standards. Mounting brackets are adjustable. One adjustable lug is furnished; additional lugs may be added.

VITREOUS ENAMELED WITH ADJUSTABLE LUGS

All Variohm units are 3/8 inches in diameter. The adjustable lug is designed to assure long life without undue wear on the wire. These units are ideal replacements for tapped resistor dividers. May be used in receiving sets, amateur transmitters, etc. Accurate to within 5% of the specified value. Listing below covers popular values. You can depend on these well-made resistor units.

25 WATTS 1 1/2 x 2 1/2" TUBE		
Cat. No.	Resist. Ohms	Current M.A.
B4785	1	5460
B4786	2	3160
B4787	5	2450
B4788	10	1730
B4789	15	1410
B4790	25	1090
B4791	50	770
B4792	75	630
B4793	100	545
B4794	150	446
B4795	200	385
B4796	250	345
B4797	300	345
B4798	750	200
B4799	1000	193
B4800	1000	173
B4801	1500	92
B4802	2000	122
B4803	2500	109
B4804	3000	100
B4805	3500	92
B4806	4000	86
B4807	5000	77
B4808	6000	70
B4809	7500	64
B4810	10000	53
B4811	12000	50
B4812	15000	23
B4813	20000	20
B4814	25000	18
B4815	30000	15
B4816	40000	11
B4817	50000	8
B4818	60000	7
B4819	75000	5
B4820	100000	4
B4821	100000	3

List Price, 85¢
YOUR PRICE, 50¢
EACH

List Price, 95¢
YOUR PRICE, 56¢
EACH

List Price, 110¢
YOUR PRICE, 65¢
EACH

Variohms are also available in 300 and 200 watt sizes. Write for prices.

50 WATTS 1 1/2 x 4 1/2" TUBE		
Cat. No.	Resist. Ohms	Current M.A.
B4741	5	3300
B4742	10	2340
B4743	15	1800
B4744	50	1000
B4745	75	850
B4746	100	740
B4747	150	600
B4748	200	520
B4749	250	465
B4750	300	430
B4751	750	270
B4752	800	260
B4753	1000	234
B4754	1500	190
B4755	2000	165
B4756	2500	148
B4757	3000	135
B4758	4000	117
B4759	5000	104
B4760	6000	95
B4761	8000	82
B4762	10000	74
B4763	12000	67
B4764	15000	60
B4765	20000	50
B4766	25000	45
B4767	30000	40
B4768	40000	33
B4769	50000	28
B4770	60000	25
B4771	75000	20
B4772	80000	18
B4773	100000	15
B4774	100000	12
B4775	150000	10
B4776	200000	8
B4777	250000	7
B4778	300000	6
B4779	400000	5
B4780	500000	4
B4781	600000	3
B4782	800000	2
B4783	1000000	1
B4784	1500000	1
B4785	2000000	1
B4786	2500000	1
B4787	3000000	1
B4788	4000000	1
B4789	5000000	1
B4790	6000000	1
B4791	8000000	1
B4792	10000000	1
B4793	15000000	1
B4794	20000000	1
B4795	25000000	1
B4796	30000000	1
B4797	40000000	1
B4798	50000000	1
B4799	60000000	1
B4800	80000000	1
B4801	100000000	1
B4802	150000000	1
B4803	200000000	1
B4804	250000000	1
B4805	300000000	1
B4806	400000000	1
B4807	500000000	1
B4808	600000000	1
B4809	800000000	1
B4810	1000000000	1
B4811	1500000000	1
B4812	2000000000	1
B4813	2500000000	1
B4814	3000000000	1
B4815	4000000000	1
B4816	5000000000	1
B4817	6000000000	1
B4818	8000000000	1
B4819	10000000000	1
B4820	15000000000	1
B4821	20000000000	1
B4822	25000000000	1
B4823	30000000000	1
B4824	35000000000	1
B4825	40000000000	1
B4826	50000000000	1
B4827	60000000000	1
B4828	75000000000	1
B4829	100000000000	1

List Price, \$1.35
YOUR PRICE, 79¢
EACH

List Price, \$1.50
YOUR PRICE, 88¢
EACH

List Price, \$1.70
YOUR PRICE, \$1.00
EACH

List Price, \$2.00
YOUR PRICE, \$1.18
EACH

80 WATTS 1 1/2 x 6 1/2" TUBE		
Cat. No.	Resist. Ohms	Current M.A.
B4771	10	2730
B4772	15	2020
B4773	25	1730
B4774	50	1220
B4775	75	865
B4776	100	740
B4777	150	600
B4778	200	520
B4779	250	465
B4780	300	430
B4781	750	270
B4782	800	260
B4783	1000	234
B4784	1500	190
B4785	2000	165
B4786	2500	148
B4787	3000	135
B4788	4000	117
B4789	5000	104
B4790	6000	95
B4791	8000	82
B4792	10000	74
B4793	12000	67
B4794	15000	60
B4795	20000	50
B4796	25000	45
B4797	30000	40
B4798	40000	33
B4799	50000	28
B4800	60000	25
B4801	75000	20
B4802	80000	18
B4803	100000	15
B4804	100000	12
B4805	150000	10
B4806	200000	8
B4807	250000	7
B4808	300000	6
B4809	400000	5
B4810	500000	4
B4811	600000	3
B4812	800000	2
B4813	1000000	1
B4814	1500000	1
B4815	2000000	1
B4816	2500000	1
B4817	3000000	1
B4818	4000000	1
B4819	5000000	1
B4820	6000000	1
B4821	8000000	1
B4822	10000000	1
B4823	15000000	1
B4824	20000000	1
B4825	25000000	1
B4826	30000000	1
B4827	40000000	1
B4828	50000000	1
B4829	60000000	1
B4830	80000000	1
B4831	100000000	1
B4832	150000000	1
B4833	200000000	1
B4834	250000000	1
B4835	300000000	1
B4836	400000000	1
B4837	500000000	1
B4838	600000000	1
B4839	800000000	1
B4840	1000000000	1

List Price, \$1.75
YOUR PRICE, \$1.03
EACH

List Price, \$2.00
YOUR PRICE, \$1.18
EACH

List Price, \$2.25
YOUR PRICE, \$1.32
EACH

List Price, \$2.50
YOUR PRICE, \$1.47
EACH

Extra Adjustable Lug
List 10c.
NET EACH 6c



10 WATT TRUVOLT RESISTORS

Wire-wound replacement resistors with 1000 Volt insulation. Easily adjusted to required resistance by means of convenient sliding clip. Features space-wound construction, heat-conducting copper core, and asbestos insulation for cooler operation. Has protective fibre insulating sleeve. Accuracy is within 5% of specified value. 3/8" dia., 1 1/2" long; with sliding clip.

Cat. No.	Type	Resist. Ohms	Current M.A.	Max. Volt.
B4459	A-005	5	4500	3
B4460	A-01	1	3150	3
B4461	A-02	2	2200	4
B4462	A-025	2.5	2000	5
B4463	A-03	3	1700	5
B4464	A-05	5	1400	7
B4465	A-075	7.5	1150	8
B4466	A-1	10	1000	10
B4467	A-15	15	815	12
B4468	A-2	20	700	14
B4469	A-25	25	630	16
B4470	A-30	30	470	22
B4471	A-5	50	450	22
B4472	A-75	75	360	27
B4473	A-1	100	315	31
B4474	A-2	200	200	45
B4475	A-3	300	180	55
B4476	A-4	400	158	63
B4477	A-5	500	141	70
B4478	A-8	800	113	88
B4479	A-10	1000	100	100
B4480	A-12.5	1250	89	111
B4481	A-15	1500	81	122
B4482	A-20	2000	70	141
B4483	A-25	2500	63	158
B4484	A-30	3000	56	172
B4485	A-40	4000	50	200
B4486	A-50	5000	45	222
B4487	A-75	7500	36	274
B4488	A-100	10000	31	316
B4489	A-150	15000	25	358
B4490	A-200	20000	20	393
B4491	A-250	25000	16	400

List Price, 50c.
YOUR PRICE, 29c
EACH

ADJUSTABLE CLIP
Permits easy additional adjustment of Electro-10 Watt Truvolts to intermediate value by sliding to proper position. Easy to mount.
B4620, List. 10c. NET... 5c

We can supply the complete line of Truvolt Adjustable Resistors in 25, 50 and 75 watt sizes. Available in all standard values. Please order with remittance or write for quotations.

ELECTRAD PRECISION RESISTORS



Accurate, dependable resistors, non-inductively wound in layers on insulator. Extremely low distributed capacity. Thoroughly impregnated against moisture. Ideal for use as multipliers, laboratory resistors, etc. Accuracy plus or minus 1%. With thin leads. Ferrule terminals listed below may be added.

Cat. No.	Resist. Ohms	Curr. M.A.	List	NET EACH
B4805	1	1225	\$0.85	
B4806	5	548	.85	
B4807	10	387	.85	
B4808	25	245	.85	
B4809	50	173	.85	
B4810	100	141	.85	
B4811	150	100	.85	
B4812	200	86	.85	
B4813	500	35	.85	
B4814	1000	28	.90	\$0.53
B4815	2500	24	.90	.53
B4804	4500	18	1.00	.58
B4816	5000	17	1.00	.58
B4817	7500	14	1.00	.58
B4818	10000	12	1.00	.58
B4819	12500	11	1.10	.64
B4820	15000	10	1.10	.64
B4821	20000	8.6	1.35	
B4822	25000	7.7	1.35	
B4823	30000	7	1.35	
B4824	35000	6.5	1.35	
B4825	40000	6.1	1.35	
B4826	50000	5.1	1.35	
B4827	60000	5	1.68	\$0.94
B4828	75000	4	1.68	.94
B4829	100000	3.8	1.85	1.09

List Price, \$1.35
YOUR PRICE, 79¢
EACH

Cat. No.	Resist. Ohms	Curr. M.A.	List	NET EACH
B4830	120000	3.4	\$2.10	\$1.23
B4831	150000	3	2.35	1.38
B4832	175000	2.7	2.35	1.38
B4833	200000	2.7	2.35	1.38
B4834	225000	2.5	2.60	1.53
B4835	250000	2.4	2.60	1.53
B4836	300000	2.2	2.85	1.68
B4837	400000*	1.9	3.00	1.76
B4838	500000*	1.7	3.40	2.00
B4839	750000*	1.3	3.80	2.24
B4840	1 meg.*	1	5.25	3.09

*These resistors are made in 8 section forms to provide the higher dielectric strength necessary for 1 1/2 watt or 1000 volt rating in these values. Overall length 1 1/4 inches.

FERRULE TERMINALS

Designed for use with the Precision Resistors described above. Screws into the resistor ends to convert them to ferrule types.
B4842, Per Pair..... 15c

Electrad Precision Resistors are available in other values not listed on special order with remittance, at the price of the next higher unit.



ELECTRAD ADJUSTABLE VOLTAGE DIVIDERS

Air-cooled voltage dividers with a sliding tap which, when adjusted, gives correct voltage desired for any application. Can be used to replace burned-out or defective voltage dividers in many radio sets or amplifiers. Wt., 1 lb.

15000 OHMS - 50 WATTS
B4622, Type D-1305.
List Price, \$1.65.
YOUR PRICE..... 76c

35000 OHMS - 50 WATTS
B4623, Type C-250S.
List Price, \$1.90.
YOUR PRICE..... 76c

25000 OHMS - 75 WATTS
B4624, Type D-250S.
List Price, \$2.30.
YOUR PRICE..... \$1.24

41000 OHMS - 75 WATTS
Designed for use in the power supply of a '40 or '50 type tube receiver or transmitter. Ideal for use with high power amplifiers and rectifiers. Equipped with 6 sliding taps to give all desired voltages.
B4625, Type D-410S.
List Price, \$4.50. NET..... \$1.32

OHMITE wire wound RESISTORS



BROWN DEVIL RESISTORS

A high quality line of wire-wound resistors for all radio and many industrial requirements. Accurately rated; wound on high grade porcelain core. These resistors have a vitreous enamel coating for complete protection. Especially recommended for applications where abnormal moisture is present. Size, 1 1/2" x 3/4"; with heavy tinned wire leads. 1 1/2" long.



10 WATT "RED DEVIL" RESISTORS

For all radio requirements. Wire-wound on low-loss porcelain core; coated with refractory cement which protects wire even at red heat. Will not deteriorate or change value with age. Efficiency is 100%; at rated wattage; will stand temporary overloads of up to 50 watts. Size, 1 1/2" x 3/4". With firmly anchored 1 1/2" heavy tinned wire leads.

10 WATT			
No.	Ohms	No.	Ohms
B9808	1	B9835	1250
B9801	2	B9836	1500
B9802	3	B9837	1750
B9803	4	B9838	2000
B9804	5	B9839	2250
B9805	7.5	B9840	2500
B9806	10	B9841	3000
B9807	12	B9842	3500
B9808	15	B9843	4000
B9809	20	B9844	4500
B9810	25	B9845	5000
B9811	30	B9846	6000
B9812	35	B9847	7000
B9813	40	B9848	7500
B9814	50	B9849	8000
B9815	7.5	B9850	8500
B9816	100	B9851	10000
B9817	125	B9852	11000
B9818	150	B9853	12000
B9819	200	B9854	12500
B9820	225	B9855	13500
B9821	250	B9856	14300
B9822	300	B9857	15000
B9823	350	B9858	16000
B9824	400	B9859	17000
B9825	450	B9860	18000
B9826	500	B9861	20000
B9827	600	B9862	22500
B9828	700	B9863	25000
B9829	750	B9864	30000
B9830	800	B9865	35000
B9831	900	B9866	40000
B9832	1000	B9867	45000
B9833	1100	B9868	50000
B9834	1200		

20 WATT			
No.	Ohms	No.	Ohms
B9865	5	B9892	1500
B9866	10	B9893	2000
B9867	25	B9894	2500
B9868	50	B9895	3000
B9869	75	B9896	4000
B9870	100	B9897	4500
B9871	150	B9898	5000
B9872	200	B9899	6000
B9873	250	B9900	7000
B9874	300	B9901	7500
B9875	350	B9902	8000
B9876	400	B9903	8500
B9877	500	B9904	9000
B9878	600	B9905	9500
B9879	700	B9906	10000
B9880	750	B9907	10500
B9881	800	B9908	11000
B9882	850	B9909	11500
B9883	1000	B9910	12000
B9884	1200	B9911	12500
B9885	1500		

List. Each. 65c.
YOUR PRICE, EACH..... **38c**

List. Each. 75c.
YOUR PRICE, EACH..... **44c**

List. Each. 1.00.
YOUR PRICE, EACH..... **59c**

No.	Ohms	No.	Ohms
B9910	1	B9917	1000
B9911	2	B9918	1100
B9912	3	B9919	1200
B9913	4	B9920	1250
B9914	5	B9921	1500
B9915	7.5	B9922	1750
B9916	10	B9923	2000
B9917	12	B9924	2250
B9918	15	B9925	2500
B9919	20	B9926	3000
B9920	25	B9927	3500
B9921	30	B9928	4000
B9922	35	B9929	4500
B9923	40	B9930	5000
B9924	50	B9931	6000
B9925	75	B9932	7000
B9926	100	B9933	7500
B9927	125	B9934	8000
B9928	150	B9935	8500
B9929	200	B9936	9000
B9930	250	B9937	9500
B9931	300	B9938	10000
B9932	350	B9939	10500
B9933	400	B9940	11000
B9934	450	B9941	11500
B9935	500	B9942	12000
B9936	600	B9943	12500
B9937	700	B9944	13000
B9938	750	B9945	13500
B9939	800	B9946	14000
B9940	900	B9947	14500
B9941	1000	B9948	15000
B9942	1100	B9949	15500
B9943	1200	B9950	16000
B9944	1250	B9951	16500
B9945	1300	B9952	17000
B9946	1350	B9953	17500
B9947	1400	B9954	18000
B9948	1450	B9955	18500
B9949	1500	B9956	19000
B9950	1550	B9957	19500
B9951	1600	B9958	20000
B9952	1650	B9959	20500
B9953	1700	B9960	21000
B9954	1750	B9961	21500
B9955	1800	B9962	22000
B9956	1850	B9963	22500
B9957	1900	B9964	23000
B9958	1950	B9965	23500
B9959	2000	B9966	24000
B9960	2050	B9967	24500
B9961	2100	B9968	25000
B9962	2150	B9969	25500
B9963	2200	B9970	26000
B9964	2250	B9971	26500
B9965	2300	B9972	27000
B9966	2350	B9973	27500
B9967	2400	B9974	28000
B9968	2450	B9975	28500
B9969	2500	B9976	29000
B9970	2550	B9977	29500
B9971	2600	B9978	30000
B9972	2650	B9979	30500
B9973	2700	B9980	31000
B9974	2750	B9981	31500
B9975	2800	B9982	32000
B9976	2850	B9983	32500
B9977	2900	B9984	33000
B9978	2950	B9985	33500
B9979	3000	B9986	34000
B9980	3050	B9987	34500
B9981	3100	B9988	35000
B9982	3150	B9989	35500
B9983	3200	B9990	36000
B9984	3250	B9991	36500
B9985	3300	B9992	37000
B9986	3350	B9993	37500
B9987	3400	B9994	38000
B9988	3450	B9995	38500
B9989	3500	B9996	39000
B9990	3550	B9997	39500
B9991	3600	B9998	40000
B9992	3650	B9999	40500
B9993	3700		
B9994	3750		
B9995	3800		
B9996	3850		
B9997	3900		
B9998	3950		
B9999	4000		

List. Each. 60c.
YOUR PRICE, EACH..... **24c**

WIRE-WOUND RESISTORS

Wire-wound on fibre strips. Low inductance.

No.	Ohms	No.	Ohms	No.	Ohms
B9875	1	B9888	5	B9895	50
B9876	2	B9889	10	B9896	50
B9877	3	B9890	15	B9897	50
B9878	4	B9891	20	B9898	100
B9879	5	B9892	25	B9899	100

10 FOR 63c.
NET EACH..... **7c**

B9890 400 B9897 700 B9894 700
B9891 400 B9898 700 B9895 1000

10 FOR 73c.
NET EACH..... **8c**

CONTINENTAL CARBON SEMI-PRECISION RESISTORS

A high-quality line of solid-molded triple ceramic-coated semi-precision carbon resistors. The popular sizes listed below are ideal for use as meter range multipliers. They are accurate within 5% and can be used with any 0-1 millimeter to construct an accurate volt-ohmmeter. All units are carefully pre-selected to assure absolutely constant rated resistance values. Body and ends of resistors are entirely covered to prevent shorts.

1 WATT - 1/4" x 1/4"					
Stock No.	Ohms	Volts at 1 M.A.	Stock No.	Ohms	Volts at 1 M.A.
B5850	100	.1	B5872	25000	25
B5851	200	.2	B5873	30000	30
B5852	400	.4	B5874	40000	40
B5853	500	.5	B5875	50000	50
B5854	1000	1	B5876	60000	60
B5855	*1450	1.5	B5877	75000	75
B5856	2000	2	B5878	85000	85
B5857	*2950	3	B5879	90000	90
B5858	3500	3.5	B5880	100000	100
B5859	4000	4	B5881	150000	150
B5860	*4450	4.5	B5882	200000	200
B5861	*4950	5	B5883	240000	240
B5862	5000	5	B5884	250000	250
B5863	5500	5.5	B5885	300000	300
B5864	*5950	6	B5886	400000	400
B5865	*7450	7.5	B5887	450000	450
B5866	8500	8.5	B5888	490000	490
B5867	*8950	9	B5889	500000	500
B5868	10000	10	B5890	600000	600
B5869	13500	13.5	B5891	750000	750
B5870	15000	15	B5892	800000	800
B5871	20000	20	B5893	800000	800
			B5894	1000000	1000

*Marks resistors which allow for the 50 ohms internal resistance of the meter.
List. Each. 60c.
YOUR PRICE, EACH..... **18c**

CENTER-TAPPED RESISTORS

May be used in any filament or burn balancing circuit. Wire-wound on flexible fibre strip.

No.	Ohms	No.	Ohms	No.	Ohms
B9896	6	B9899	20	B9102	100
B9897	10	B9900	40	B9103	200
B9898	15	B9901	60	B9104	400
B9899	20	B9902	80	B9105	400

10 FOR 73c.
NET EACH..... **8c**

ELECTRAD CENTER-TAPPED RESISTORS

Conveniently small, compact, and fully protected with a coating of enamel. Center tap accurate to within 1%.

No.	Ohms	No.	Ohms	No.	Ohms
B4610	10	B4613	30	B4615	100
B4611	15	B4614	50	B4617	200
B4612	20	B4615	70		

NET EACH..... **15c**

EAGLE PLUNGER LEAK

Adjustable grid leak with a range from 0 to 50 ohms. Standard mounting.
B3974. YOUR PRICE..... **28c**

MULTIPLIER RESISTOR KIT

A kit of the above resistors which will convert an 0-1 millimeter (50 ohms to 1000 ohms) range for following readings: 0-10-25-50-100-200-500 volts, D.C.; 0-1000 ohms-1 megohm.
B2331. YOUR PRICE..... **\$1.59**

CENTER-TAPPED "WIRE-WATT" 1 WATT CENTER-TAPPED RESISTORS. Wire-wound. Accuracy adjusted.

No.	Ohms	No.	Ohms
B9170	10	B9175	50
B9171	15	B9176	75
B9172	20	B9177	75
B9173	25	B9178	100
B9174	30	B9179	200

List. Each. 35c.
YOUR PRICE, EACH..... **21c**

RESISTORS - BALLASTS

CANDOHM EXACT DUPLICATE RESISTORS



- Exactly duplicate the original unit.
- Resistance remains unchanged indefinitely.

Cat. No.	Fact. No.	Total Ohms	NET
Clarion (Trans. Corp.)			
B6551	1919	15100	50.59
B6552	4268	13580	.68
B6553	4269	19200	.68
B6532	4267	19665	.68
B6531	4305	19600	.59
B6534	4512	19085	.59
Columbia (Knight)			
B6526	AC-5	8200	.54
B6527	AU-5	100	.34
Crosley			
B6529	20432B	4295	.68
B6530	20909	10000	.45
B6531	21955	6500	.45
B6532	21956	3190	.29
B6534	22574A	3205	.59
B6536	28471	33500	.39
B6537	28755A	274	.78
B6535	20776B	900	.45
Merason			
B6538	HR-38	1500	.29
B6539	HR-36	310	.78
Majestic			
B6543	10145	21702	.68
B6544	10232	10600	.29
B6547	12047	21513	1.12
B6545	10535	2300	.41
B6546	10636	41750	.82
International			
B6545	R-303	310	.78

These resistors are exact duplicates of the originals listed below. Each is original equipment by leading manufacturers. To order units not listed, give all numbers stamped on original part, or send sample. Also give make, model and tube line-up of set. Enclose deposit with order and we will ship proper unit.

Cat. No.	Fact. No.	Total Ohms	NET
International (cont'd.)			
B6559	II-304	135	58.20
B6548	II-302	1500	.29
B6542	II-329	4600	.29
Simplex			
B6538	7720	20490	.49
B6539	7728	33000	.41
B6520	7725	1100.41	.41
U. S. Radio & Tel.			
B6555	1752	22600	1.56
B6556	1959	23800	1.56
B6557	2203	3640	.39
B6558	2303A	3640	.45
B6559	2715	5055	.49
B6561	2811A	4450	.68
B6562	3111	6325	.78
B6563	3300	24300	.48
B6565	3621	3315	.78
B6566	3622	4300	.45
B6567	4143	20900	.71
B6569	5463	7050	.59
B6570	2381	16000	.71
B6571	27416	3242	.71
Wells-Gardner			
B6597	98002	39050	.71
B6598	98020	41000	.59
B6597C	98074C	16738	1.10
B6591	98037	10000	.53
Zenith			
B6595	63-351	17035	.58



CANDOHMETER RESISTANCE INDICATOR

An accurately calibrated dual-range resistance indicator. Consists of two Candohm resistor units in a single mounting, insulated from and protected in heat metal casing. Sliding test probe moves freely in exposed slot. Quickly and accurately determines value necessary for replacing any burned-out or defective resistor.

0-10,000; 0-100,000 OHMS

Two scales, reading 0-10,000 and 0-100,000 ohms, are accurately stamped into the metal housing of the Candohmeter—the outer scale for determining approximate values, and the lower to permit of more accurate reading within its range. Excellent for experimental or service work. Complete with test leads, insulated handle prod. and alligator clips.

B8599, List. \$2.00. \$118
YOUR PRICE

0-100; 0-1,000 OHMS

The same design and quality construction as the Candohmeter listed above, but intended for determining lower values, resistance with greater accuracy. Scales read: 0-100 and 0-1000 ohms. Shpg. wt. 1 lb.

B8596, List. \$1.75. \$103
YOUR PRICE

MUTER 5 WATT ZIPOHM RESISTORS



Wire-wound 5 Watt, flat-type resistors. Constructed for use in all radio set and amplifier circuits to replace over-loaded carbon resistors. Most units only 1/16" x 1/2". Those preferred with * are 2" long. Tinned leads 1/2" long. Accuracy is 5%. Each unit is protected with a non-porous high temperature electrical cement.

No.	Ohms	No.	Ohms	No.	Ohms
B6798	100	B6714	1000	B6728	5000
B6791	125	B6715	1100	B6729	7000
B6792	150	B6716	1200	B6730	7500
B6793	200	B6717	1250	B6731	8000
B6794	250	B6718	1300	B6732	9000
B6795	300	B6719	1750	B6733	10000
B6796	350	B6720	2000	B6734	12500
B6797	400	B6721	2250	B6735	15000
B6798	500	B6722	2500	B6736	18000
B6799	600	B6723	3000	B6737	17500
B6710	700	B6724	3500	B6738	18900
B6711	750	B6725	4000	B6739	20000
B6712	800	B6726	4500	B6740	22300
B6713	900	B6727	5000	B6741	25000

List Price, 25c.
YOUR PRICE..... **15c**
EACH



ZIPOHM 5 WATT RESISTOR KIT

Contains 57 Zipohm resistors in 27 different values. These units were carefully selected from frequency charts and will cover 80% of replacements for wire-wound resistors. Contains the following 5 watt units, 1 each: 150 ohm, 250, 400, 600, 1250, 4000, 5000, 7500, 15000, 20000 and 25000 ohm. 2 each: 100 ohm, 200, 300, 350 and 10000 ohm. 3—1500 ohm and 4—800 ohm, 750, 2000, 2500, 5000 ohm and 5—1000 ohm. Also contains 2 each of the following 10 watt units: 10000 ohm, 15000, 20000 and 25000 ohm.

B6746, \$6.91
YOUR SPECIAL PRICE.....

LINE CORDS AND VOLTAGE REGULATORS

AC-DC SET LINE CORDS

Line cord with built-in resistor which supplies proper filament voltage for the popular 3 amp. metal and glass tubes when they are connected in series. Shpg. wt. 1 lb.

No.	Ohms	Filament Drop
B7207	250	10.9 to 17.0 V.
B7208	300	13.0 to 24.0 V.
B7205	290	25.2 to 31.5 V.
B7204	250	32.0 to 44.5 V.
B7203	180	45.0 to 52.0 V.
B7202	180	53.0 to 61.0 V.
B7201	150	56.5 to 68.9 V.
B7200	135	68.9 to 75.2 V.

YOUR PRICE..... **30c**
EACH



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.

B9145, List. \$1.50. NET..... 65c

EUROPEAN ADAPTERS

Designed to adapt American sets for use with European wall outlets. Two types are available. One is for Great Britain and possessions (Canada), the other is for Continental Europe and most other parts of the world.

B7210, B7211, English Adapter..... 18c
NET EACH

PROTEX VOLTAGE REGULATOR

An air-cored dependable voltage regulator. Fits any standard socket or unit and will correct voltage to any set. Small and inconspicuous. Extremely efficient. Will give lasting service. Shpg. wt., 1 lb.

B3970, Lots of 10, \$2.85. 30c
NET EACH

REPLACEMENT LINE BALLASTS

Original ballasts to replace similar units in sets de-lined for their use. These units maintain normal voltage in spite of line fluctuations from 90 to 135 volts regularly. Replacement line ballasts for all sets. If your set is not listed below, send in original ballast for identification and deposit. Mention make, model and tube line-up of set, and we shall supply.

No.	Type	Set
B3273	2160	Bremer-Tully
B3274	2170	Branswick, II-Q30, Scott
B3275	1516	Majestic, Silver, Sonora
B3276	2168	Majestic, 71
B3277	1508	Clarion, III-Q31
B3278	1015	Majestic 72, 7015
B3279	1210	Majestic 80, 130, 151
B3280	1210	Majestic 90, 91, 92, 100
B3280	6310	United Reproducers, Perlees, Grebe

B3281 2518 Starck Piano, Belmont.
B3282 2516 Simplex, Baldwin.
B3283 5001 Stewart-Warner 900-61816.
B3284 5002 Stewart-Warner 950-62152.
B3285 5003 Stewart-Warner R100-66756.
List, \$2.50.

YOUR PRICE..... **\$1.08**
EACH

UNIVERSAL RESISTOVOLT

Automatic voltage regulator. Maintains constant potential of 110 Volts, irrespective of line burnouts. Operates automatically. Shpg. wt., 1 lb. each.

B5500, Light Duty for sets up to 6 tubes..... 56c
B5501, Heavy Duty for sets over 6 tubes.
NET EACH

CLAROSTAT A.C. LINE VOLTAGE REGULATOR

Automatically adjusts line voltage for all 110 Volt A.C. radios using power as shown. Gives protection against fluctuating voltages. 1 lb. each.

No.	Type	Watts
B3280	O.	Up to 60
B3281	B.	60 to 100
B3282	B.	100 to 150
B3283	C.	150 to 200
B3284	D.	200 to 250

List, \$1.75.
NET EACH..... **49c**

MALLORY CONDENSERS

SERVICE 12,000 DIFFERENT RADIO SETS!

THE MALLORY-YAXLEY RADIO ENCYCLOPEDIA SHOWS YOU HOW

The most useful book ever published for the serviceman! In one volume, on one page, on one line, you get the right answer to every service problem—complete analysis of over 12,000 sets—data on 1P tubes, volume controls, tone controls, tube line-ups, condensers, vibrators, transformer and filter circuits used, etc. Includes complete instructions, resistance and capacity data to meet all design and replacement requirements. Cloth-bound, 8 1/2" x 11".

B11801.
NET..... **\$1.47**



ALLIED'S BIG STOCK OF MALLORY CONDENSERS MAKES IT EASY

The new Mallory Universal and Special Replacement Condensers listed below enable the serviceman to replace defective units, regardless of shape, size, or electrical characteristics, in any 90% of all radio receivers. A small stock of these high-quality conservatively-rated condensers meets all service requirements. We carry the entire line of Mallory Condensers in stock at all times. Any item not listed below is immediately available from ALLIED stock at 40/2% of list price. Play safe. Order Mallory products from ALLIED.

TUBULAR BY-PASS UNITS

TYPE TP

Non-inductive by-pass condensers of a superior quality. Thoroughly impregnated against moisture. Wire leads are firmly anchored to metal discs.



500 V. D.C. WORKING

No.	Mfd.	Type	Size	NET EACH
B11750	.0001	1 1/2 x 1 1/2		9c
B11751	.00025	1 1/2 x 1 1/2		
B11752	.0005	1 1/2 x 1 1/2		
B11753	.001	1 1/2 x 1 1/2		
B11754	.002	1 1/2 x 1 1/2		
B11755	.005	1 1/2 x 1 1/2		
B11756	.008	1 1/2 x 1 1/2		
B11757	.01	1 1/2 x 1 1/2		
B11758	.02	1 1/2 x 1 1/2		
B11759	.03	1 1/2 x 1 1/2		
B11760	.05	1 1/2 x 1 1/2		12c
B11761	.08	1 1/2 x 1 1/2		
B11762	.1	1 1/2 x 1 1/2		
B11763	.25	2 1/2 x 1 1/2		15c
B11764	.5	2 1/2 x 1 1/2			21c
B11765	.1	2 1/2 x 1 1/2		29c

400 V. D.C. WORKING

B11765	.01	1 1/2 x 1 1/2		9c
B11766	.02	1 1/2 x 1 1/2		
B11767	.03	1 1/2 x 1 1/2		
B11768	.1	1 1/2 x 1 1/2		12c
B11769	.25	2 1/2 x 1 1/2			15c
B11770	.5	2 1/2 x 1 1/2		21c

200 V. D.C. WORKING

B11771	.05	1 1/2 x 1 1/2		9c
B11772	.1	1 1/2 x 1 1/2		
B11773	.25	1 1/2 x 1 1/2		15c
B11774	.5	1 1/2 x 1 1/2			21c
B11775	1	2 1/2 x 1 1/2		29c

"SPECIAL UNIVERSAL" DRY ELECTROLYTICS

Special units designed to fill those applications which cannot be taken care of with Standard Mallory Units. Exact duplicate replacements of originals in the sets listed.



IN METAL CANS

3-2-1 Mfd., 450 Wkg. Volts
B11895 Type UR-181, For Philips 12, 13, 14, 116, 200, 201, 640, 650, 660, 680. Size 1 1/2 x 2 1/2". NET..... **\$1.23**

8-8 Mfd., 350 Wkg. Volts
B11896, Type SR-605, For Atwoods 252, 212, 237, 305Z, 4670, 565Z, 666, 756. Size 1 1/2 x 2 1/2". NET..... **91c**

CARDBOARD CASED

8-8 Mfd., 250-300 Wkg. Volts

B11897, Type UR-180, For Grayley 85, 98, 99, 102, 129-1, 130, 130-1, 132, 132-1, 134, 136-1, 146-1, 146, 154, 157, 158, 160, 163, 167, 169, 176, 2120. Size 1 1/2 x 2 1/2". NET..... **76c**



5-25-10 Mfd., 150 Wkg. Volts

B11898, Type UR-182, For Belmont 53, 625, 440, 525, 530, 540, 525, 550; Echenoz 7114; Emerson HS, 30AW, 33AW, 250, 250AW, 321AW, 350AW, 30LW, 33LW, 250LW, 321LW, 350LW; Grunow CB, 501, 550; Zenith 701, 702, 801; Weller-Gardner 318. Size 1 1/2 x 2 1/2". NET..... **\$1.15**

4-4 Mfd., 150 Wkg. Volts

B11899, Type IR-183, For "F" Kadettes Jr., 40 (Jewell), and 90. Size 1 1/2 x 2 1/2". NET..... **79c**

MOTOR-STARTING CONDENSERS

TYPE MS

Used as replacements for faulty original units or may be applied to speed up slow-starting motors. For use with refrigerators, etc. Supplied with clamping ring and metal cap. Working Volts, 110 Volts AC.

No.	Mfd.	Type	Diam.	NET
B11898	60	MS 640	2"	32.18
B11899	70	MS 641	2"	2.12
B11898	80	MS 642	2"	2.47
B11898	100	MS 643	2"	2.76
B11898	125	MS 644	2"	3.06
B11898	150	MS 645	2"	3.35
B11898	175	MS 646	2"	3.63

DRY ELECTROLYTIC CONDENSERS

CARDBOARD CASED

Small and compact replacement condensers. Internal metal seal prevents damage from excess heat or humidity. With mounting flanges. All units have color-coded leads.



CS-SINGLE SECTION

No.	Mfd.	Type	Size	NET
B11780	2	CS 130	1/2 x 3/4 x 2 1/2"	\$0.38
B11781	4	CS 131	1/2 x 3/4 x 2 1/2"	.44
B11782	6	CS 132	1/2 x 3/4 x 2 1/2"	.53
B11783	8	CS 133	1/2 x 3/4 x 2 1/2"	.56
B11784	10	CS 134	1/2 x 3/4 x 2 1/2"	.68
B11785	12	CS 135	1/2 x 3/4 x 2 1/2"	.76
B11786	16	CS 136	1 1/2 x 3/4 x 2 1/2"	.85

IN METAL CANS

High in efficiency. New internal construction resists against all voltage failure; sealed against humidity and temperature damage. Have "S" color-coded leads; mounting nut and washer. Metal can is insulated. Remarkably small but highly efficient. Ideal units for all requirements.



RS-SINGLE SECTION

No.	Mfd.	Type	Size	NET
B11776	4	RS 211	2 1/2 x 1"	\$0.50
B11777	8	RS 213	2 1/2 x 1"	.62
B11778	12	RS 215	2 1/2 x 1"	.82
B11781	16	RS 216	3 1/2 x 1"	.91
B11782	4	RS 201	2 1/2 x 1"	.44
B11783	8	RS 203	2 1/2 x 1"	.56
B11784	12	RS 205	2 1/2 x 1"	.65
B11785	25	RS 207	3 1/2 x 1"	.88

300 V. Peak, 250 V. D.C. Working

RM-MULTIPLE SECTION COMMON NEGATIVE

No.	Mfd.	Type	Size	NET
B11874	4-8	RM 241	3 x 1 1/2"	\$0.85
B11875	8-8	RM 242	3 x 1 1/2"	.94
B11876	8-8-8	RM 243	3 1/2 x 1 1/2"	1.35
B11877	4-8	RM 231	3 1/2 x 1"	.76
B11878	8-8	RM 232	3 1/2 x 1"	.85
B11879	8-8-8	RM 233	3 1/2 x 1"	1.23

300 V. Peak, 250 V. D.C. Working

RM-MULTIPLE SECTION SEPARATE NEGATIVES

No.	Mfd.	Type	Size	NET
B11880	4-8	RM 261	3 1/2 x 1 1/2"	\$0.85
B11881	8-8	RM 262	3 1/2 x 1 1/2"	.94
B11882	8-8-8	RM 263	4 1/2 x 1 1/2"	1.35
B11883	4-8	RM 251	3 x 1 1/2"	.76
B11884	8-8	RM 252	3 x 1 1/2"	.85
B11885	8-8-8	RM 253	3 1/2 x 1 1/2"	1.23
B11886	8-8-16	RM 257	3 1/2 x 1 1/2"	1.38
B11887	8-16-16	RM 259	3 1/2 x 1 1/2"	1.53

REPLACEMENT MULTIPLE SECTIONS

TYPE MN

Dry electrolytics in large round metal cans. Designed primarily for replacement, similarly sized units. Exceptional filtering efficiency permits non listed types to replace all similar units.

No.	Mfd.	Type	Size	NET
B11795	8-8	MN 272	2 1/2 x 3 1/2"	\$1.06
B11796	8-8-8	MN 273	2 1/2 x 3 1/2"	1.15
B11797	8-8-8-8	MN 275	3 x 3 1/2"	1.59
B11798	8-8-8-8-8	MN 277	3 x 3 1/2"	2.12
B11799	9-9-18-18	MN 279	3 x 3 1/2"	3.09

WET ELECTROLYTICS

TYPE WE

Low power factor and efficient self-heating characteristics make these units ideal for all heavy-duty filter requirements. Rated at 475 Volts DC working voltage, except B11793, which is 400 Volts DC. B11792 and B11794, which are 450 Volts DC.

No.	Mfd.	Type	Size	NET
B11787	4	WE 447	1 1/2 x 3 1/2"	\$0.47
B11788	8	WE 447	1 1/2 x 3 1/2"	.56
B11789	12	WE 1247	1 1/2 x 3 1/2"	.68
B11790	16	WE 1647	1 1/2 x 3 1/2"	.79
B11791	18	WE 1847	1 1/2 x 3 1/2"	.88
B11792	22	WE 2247	1 1/2 x 3 1/2"	1.00
B11793	35	WE 3540	1 1/2 x 3 1/2"	1.03
B11794	40	WE 4045	1 1/2 x 3 1/2"	1.12



TUBULAR DRY ELECTROLYTICS

Especially designed for by-pass use. Low power factor. High leakage resistance. With 3" tin-plated leads.

TS-SINGLE SECTION

No.	Mfd.	Type	Size	NET
B11736	10	TS 101	2 1/2 x 3 1/2"	28c
B11736	20	TS 102	2 1/2 x 3 1/2"	39c
B11737	25	TS 103	2 1/2 x 3 1/2"	46c
B11738	50	TS 104	2 1/2 x 3 1/2"	56c
B11739	5	TS 105	2 1/2 x 3 1/2"	28c
B11740	10	TS 106	2 1/2 x 3 1/2"	38c
B11741	25	TS 107	2 1/2 x 3 1/2"	47c
B11742	50	TS 108	3 1/2 x 3 1/2"	71c

TN-DUAL-COMMON NEGATIVE

No.	Mfd.	Type	Size	NET
B11745	5-5	TN 110	1 1/2 x 2 1/2"	28c
B11746	10-10	TN 111	1 1/2 x 2 1/2"	38c
B11747	5-5	TN 112	1 1/2 x 2 1/2"	38c
B11748	5-5	TN 113	2 1/2 x 2 1/2"	44c

KNIGHT BY-PASS AND REPLACEMENT CONDENSERS



CARTRIDGE CONDENSERS

These high-quality condensers are ideal for use in all IF, IF and Audio by-pass and coupling circuits. High leakage resistance; low power factor. Encased in double-impregnated moisture-proof containers. Materials of the highest degree of purity are used in these ruggedly-built, conservatively-rated, inexpensive units. Dual units have common connection to strap lug.

400 VOLTS				500 VOLTS			
Mfd.	No.	Net	No.	Net	Mfd.	No.	Net
.001	B7315	Each	B7311	Each			
.002	B7316		B7312				
.003	B7317		B7313				
.004	B7318		B7314				
.005	B7319		B7315				
.006	B7320		B7316				
.01	B7321		B7317				
.02	B7322		B7318				
.03	B7323		B7319				
.04	B7324		B7320				
.05	B7325		B7321				
.06	B7326		B7322				
.1	B7327	8c	B7323	10c			
.25	B7328	10c	B7324	15c			
.5	B7329	15c	B7325	19c			
1.0	B7330	29c					

200 VOLTS			DUAL UNITS		
Mfd.	No.	Net	No.	Mfd.	V. Net
.001	B7310		B7346	1-1	200 14c
.002	B7311		B7347	25-25	200 16c
.003	B7312	.25	B7348	1-1	400 14 1/2c
.004	B7313	.5	B7349	1-1	800 24c
.005	B7314	1.0			



HANDY CONDENSER ASSORTMENT

Complete assortments of popular sizes used in service work. Mounted on neat strips for hanging on the wall or carrying in your kit. 12 condensers to a strip, one of each value.

B7760. Consists of:

Mfd.	Volts	Mfd.	Volts
.001	400	.004	500
.003	400	.006	600
.005	400	.01	600
.006	400	.03	600
.001	600	.05	600
.002	600	.1	600

YOUR PRICE **85c**

B7761. Consists of:

Mfd.	Volts	Mfd.	Volts
.001	200	.05	400
.25	200	.06	400
.5	200	.1	400
1.0	200	.25	400
.01	400	.5	400
.03	400	1.0	400

YOUR PRICE **\$1.38**

WAXED UNCASED REPAIR SECTIONS

Wax-dipped units for replacement use in filter block repairing. Compact; high dielectric resistance. 6" color-coded leads are of heat-proof pu-black wire.



200 VOLTS			400 VOLTS		
Mfd.	No.	Net	Mfd.	No.	Net
.25	B7741	9c	B7746	1c	
.5	B7742	11c	B7747	19c	
1.0	B7743	18c	B7748	26c	
2.0	B7744	29c	B7749	34c	

SPARTON TUBULAR REPLACEMENT



Exact duplicate 400 rohn units for Sparton sets. With tapped hole and mounting lug.

No.	Mfd.	NET
B7769	.25	5c
B7770	.5	29c
B7771	1.0	31c



MOLDED BAKELITE MICA CONDENSERS

Genuine bakelite molded units available in three convenient mounting styles. Highest quality mica dielectric and bakelite casing. Sizes: Insulated mounting type, 1 1/2 x 3/2" C digital and lug types. 3/4 x 1/2" Types B and C have metal terminals which may also be used for mounting. Highest quality mica units available.

Cap. Mfd.	Pigtail Type (Fig. A)	Insul. Hole (Fig. B)	Lug Type (Fig. C)	Net Each
.000025	B7427	B7826	B7844	8c
.00004	B7428	B7889	B7845	
.00005	B7529	B7810	B7846	
.0001	B7530	B7811	B7847	
.00015	B7531	B7812	B7848	
.0002	B7532	B7813	B7849	Per Doz.
.00025	B7633	B7813	B7850	85c
.0004	B7634	B7814	B7851	
.0006	B7635	B7815	B7852	
.0006	B7636	B7816	B7853	
.001	B7637	B7817	B7854	
.0015	B7638	B7818	B7855	12c
.002	B7639	B7819	B7856	
.0025	B7640	B7820	B7857	
.003	B7641	B7821	B7858	
.004	B7642	B7843	B7859	
.005	B7822	\$1.30
.006	.....	B7823	.....
.008	.....	B7824	.....
.008	.....	B7825	.....
.01	.....	B7825	.....



BATH TUB CONDENSERS

Non-inductive metal-cased units for all by-pass requirements. Permanently sealed and moisture-proof. Type A: 1 1/2 x 1 1/2" Type B: Single, 1 1/2 x 2 1/4" Multiple, 2 1/2 x 3 1/4"

By-Pass (Type A)			
No.	Mfd.	Volts	NET
B7773	.1	200	16c
B7774	.25	200	20c
B7775	.5	200	24c
B7777	.1	300	20c
B7778	.25	300	24c
B7779	.5	300	28c
B7781	.05	400	12c
B7782	.1	400	15c
B7783	.25	400	19c
B7784	1-1	400	26c

Single Section (Type B)			
No.	Mfd.	Volts	Net
B7786	1.0	200	30c
B7787	2.0	200	49c
B7788	1.0	300	31c
B7791	1.0	400	36c
B7792	.25	400	26c
B7793	.5	400	33c

Multiple Section (Type B)			
No.	Mfd.	Volts	Net
B7794	1-1-1-1	200	52c
B7795	25-25	300	51c
B7796	5-5	300	36c
B7797	1-1-1	400	36c
B7798	25-25	400	39c
B7799	5-5	400	35c

EXACT DUPLICATE CONDENSERS

ELECTROLYTIC CONDENSER BLOCKS



These condensers have electrical and physical characteristics exactly identical to the originals they replace. We can also supply other popular exact duplicate units. Send us your old condenser unit with detent, indicating make, model, and tube line-up of set, and we will duplicate it.

Stk. No.	Part No.	Model	Cap. Mfd.	NET
B6650	C-525-C		5-25	\$0.59
B6651	W23801	CROSLY	324, 125	0-8 .85
B6652	W25857B		35, 161	8-8 .50
B6653	W27485A		146, 167	8-6 .47
B6654	W27677A		147	8-8 .44
B6655	W215019		169, 7V2, 5M3	6-7-8 .94
B6656	W20264A		166, 172	16-16-8 .98
B6657	1460	DETROLA	4-8-20	1.96
B6658	GENEAL-ELEC-137	EMERSON	2	1-16-5-5 1.21
B6659	27151	GRUNDY	581, 556, 558	4-8-20-4 1.29
B6660	66143	GENEAL-ELEC-RCA-VICTOR	K52, R28	4-4 .57
B6661	66155		K60, R37	4-4-10-4 1.03
B6662	66180-1		K66, 121	8-4-4 .84
B6663	66189-2		K66, 228	8-4-4 1.10



No.	Model	NET
B7105	37	\$2.94
B7106	8pk. filter, all sets (A.K. 14902)	.59
B7107	40, 42, 46, 52, 37, 38, 30	.59
B7108	37, 38 (4-4-4)	.59
B7109	37, 38 Condensers only. (No Chokes)	1.55
B7117	43, 46, 47-53. Condensers only.	3.10
B7128	40, 42, 46, 52, 56, 57. Condensers only.	3.43
B7142	14, 21, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	4.60
B7099	1200473 (1-1-1-1)	.59
B7109	SGR	3.40
B7111	8C8 (213)	.58
B7112	8C8 (214)	.88
B7113	AC5 (5-5-5)	.73
B7115	MAJESTIC	1.73
B7118	50, 70P6, 70P6, 90, 90P6, 90P6 (WRB re-850)	1.84
B7119	90 (1.5)	2.95
B7120	100, 8P6	2.95
B7125	90B, 200 (Cboke and input)	5.75
B7148	90B, 100B	2.75
B7124	3R2, 3R45, 52	4.20
B7127	930	3.95
B7128	69, 79	1.70
B7135	89A	3.70
B7129	8-60, 8-60, 8-60	3.60
U. S.	RADIO-APEX-GLORITONE	1.85
B7145	26	1.55
B7131	41, 43	1.70
B7132	41, 43	1.70
B7133	80, 81	2.62
B7146	36 (S leads)	3.30

KNIGHT ELECTROLYTIC CONDENSERS

Suggestively-made efficient electrolytic condensers, carefully designed to meet any requirement for service work or set building. Available in single or multiple units in both cardboard containers and metal can type. Built to give lasting service. Thoroughly impregnated against moisture; conservatively rated. For low price, long life, compactness, low power factor and reliability, these Knight Electrolytic Condensers are values that can't be matched.

SPECIAL VALUE DRY ELECTROLYTIC

DRY ELECTROLYTIC CONDENSERS

CARDBOARD BOXES

Single and multiple section electrolytic condensers in capacities adaptable to practically any repair job. Ideally suited for original installation in crumple-built sets. Heavily impregnated, wax-filled cardboard containers for maximum durability. These compact and sturdy units are equipped with long insulated wire leads that allow the greatest possible flexibility in mounting. 550 D.C. peak volts; 450 D.C. working volts.

550 Volts Peak—450 Volts Wkg. SINGLE SECTIONS

No.	Mfd.	Size	NET
B3823	2	4 1/2 x 1 3/4 x 1 3/4	24c
B3824	2	4 1/2 x 1 3/4 x 1 3/4	30c
B3825	4	4 1/2 x 1 3/4 x 1 3/4	36c
B3826	8	4 1/2 x 1 3/4 x 1 3/4	42c
B3827	10	4 1/2 x 1 3/4 x 1 3/4	48c
B3828	12	4 1/2 x 1 3/4 x 1 3/4	54c
B3811	16	4 1/2 x 1 3/4 x 1 3/4	52c

MULTIPLE SECTIONS

No.	Mfd.	Size	NET
B3829	4-4	4 1/2 x 1 3/4 x 1 3/4	48c
B3830	4-8	4 1/2 x 1 3/4 x 1 3/4	56c
B3831	4-8	4 1/2 x 1 3/4 x 1 3/4	64c
B3832	4-8	4 1/2 x 1 3/4 x 1 3/4	60c
B3833	4-4-4	4 1/2 x 1 3/4 x 1 3/4	72c
B3834	8-8-8	4 1/2 x 1 3/4 x 1 3/4	82c

BANTAM SIZE DRY ELECTROLYTICS

Will fit in the smallest space. Ideal replacement units. Can be changed to replace defective condenser banks. In impregnated cardboard containers with six inch color-coded insulated wire leads. Tab for easy mounting.

550 Volts Peak—450 Volts Wkg.

No.	Mfd.	Size	NET
B3813	2	2 1/2 x 1 1/2 x 1 1/2	24c
B3814	4	2 1/2 x 1 1/2 x 1 1/2	30c
B3815	8	2 1/2 x 1 1/2 x 1 1/2	36c
B3816	10	2 1/2 x 1 1/2 x 1 1/2	42c
B3817	12	2 1/2 x 1 1/2 x 1 1/2	48c
B3818	4-4	2 1/2 x 1 1/2 x 1 1/2	48c
B3819	8-8	2 1/2 x 1 1/2 x 1 1/2	60c

ALUMINUM-COATED CARDBOARD CONTAINERS

Popular replacements for A.C. D.C. and mixed A.C. receivers. Containers are of aluminum-coated cardboard. Spade lugs are provided for easy mounting. Flexible insulated wire leads. Ratings are conservative, assuring long life and efficient operation. Containers are up to 1/2" high, 1 1/4" in diameter. Buy a stock of condensers of different values so that you will have a replacement for every service job on hand always.

No.	Mfd.	Peak Volts	NET
B3738	8-16	500	50c
B3739	4-8	500	64c
B3740	8-8	500	60c
B3741	4-8	500	54c
B3737	12-16	500	92c
B3738	4-4-4	500	75c
B3733	8-8-8	500	80c

LOW VOLTAGE ELECTROLYTICS

No.	Mfd.	Volts	NET
B3734	8	200	34c
B3735	8	200	46c
B3736	8-8	200	50c
B3737	8-16	200	58c
B3738	20-20	200	52c
B3739	8-20	200	71c
B3740	8-10	200	62c
B3741	12-12	200	66c
B3742	12-16	200	82c
B3743	12-24	200	71c
B3744	8-8-8	200	70c
B3745	10-10-20	200	75c
B3746	8-14	200	81c
	10-10	250	85c
B3747	8-20	250	87c
	10-10	250	90c
B3748	8-16	250	90c
	10-10	250	90c

METAL CONTAINERS Insulated Type

Mounted in aluminum insulated containers. Standard stud and nut mounting. Insulated leads.

550 Volts Peak—450 Volts Wkg.	No.	Mfd.	Size	NET
B3850	2	2 1/2 x 1 3/4	30c	
B3851	4	2 1/2 x 1 3/4	36c	
B3852	6	4 1/2 x 1 3/4	40c	
B3853	8	4 1/2 x 1 3/4	42c	
B3854	10	4 1/2 x 1 3/4	48c	
B3855	12	4 1/2 x 1 3/4	54c	
B3856	4-4	4 1/2 x 1 3/4	62c	
B3857	6-6	4 1/2 x 1 3/4	60c	
B3858	8-8	4 1/2 x 1 3/4	72c	

MULTIPLE UNITS

Popular replacements. Absolutely dry and in moisture-proof round aluminum containers. Each section is separately wrapped and entirely insulated from the others. All negative terminals are grounded to the can. Positive leads are brought out to soldering lugs at top. Upright mounting. Working voltage, 450; peak voltage, 550.

1/2" INCH CONTAINERS

No.	Mfd.	Length	NET
B3860	8-8	4 1/2"	\$0.70
B3861	4-4-4	4 1/2"	.86
B3862	5-15	4 1/2"	.88

3/4" INCH CONTAINERS

No.	Mfd.	Length	NET
B3863	8-8-8	4 1/2"	\$1.04
B3864	8-8-8-8	4 1/2"	1.44
B3865	9-9-18	4 1/2"	1.60

3/4" INCH CONTAINERS

B3866	8-9-18-18	4 1/2"	\$1.94
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DRAWN ALUMINUM RECTANGULAR UNITS

Multiple section units in drawn aluminum housings. Wax-filled and moisture-proof. Sections are insulated from each other and from the container. Terminal lugs are provided for each section individually. Working voltage, 450 D.C.; peak voltage, 550 D.C. Provided with tabs for easy mounting.

550 V. DC PEAK VOLTAGE

No.	Mfd.	Size	NET
B3873	4-4	4 1/2 x 1 3/4 x 1 3/4	\$0.58
B3877	6-8	4 1/2 x 1 3/4 x 1 3/4	.70
B3878	8-8	4 1/2 x 1 3/4 x 1 3/4	.72
B3879	4-4-4	4 1/2 x 1 3/4 x 1 3/4	.85
B3881	8-8-8	4 1/2 x 1 3/4 x 1 3/4	1.08

WET ELECTROLYTICS

For heavy-duty filter work in radio sets and amplifiers, etc. Self-healing properties and ability to withstand voltage overloads make these units dependable in operation. Low leakage current and excellent power factor assure long life. Housed in round aluminum containers, 1 1/2" diameter and 4 3/4" high. Inverted stud mounting. Can be negative. Replace dry electrolytics that continue to break down with these units for permanent replacement.

No.	Mfd.	Peak Volts	NET
B2712	4	500	56c
B2713	8	500	36c
B2714	8	500	40c
B2715	10	500	44c
B2716	12	500	48c

VOLTAGE DOUBLING DUAL SECTIONS

Especially designed for A.C. radio sets which have voltage doubling circuits using type 2Z5 tube. With 4 colored flexible metal insulated wire leads—2 black and 2 red. Each capacity is a separate condenser section.

175 VOLT D.C. PEAK

No.	Mfd.	Size	NET
B3807	10-10	2 1/2 x 1 1/4 x 1 1/4	54c
B3808	12-12	2 1/2 x 1 1/4 x 1 1/4	58c
B3809	10-16	2 1/2 x 1 1/4 x 1 1/4	62c
B3810	20-20	2 1/2 x 1 1/4 x 1 1/4	80c



BUY THEM! USE THEM! WORTH DOUBLE THE MONEY

- Aluminum Cansor Cardboard Containers.
- Each Section is a Separate Condenser.
- Conservatively-Rated 450 V. D.C. or 550 V. Peak.
- Minimum Mounting Space Required.
- All Single Units Have Wire Leads Firmly Fastened.
- Convenient Mounting Tabs on Lugs.

High quality dry electrolytic condensers at amazingly low prices. Equal to the finest electrolytics sold at any price. Supplied in both aluminum cans and in standard cardboard cartons. Conservatively rated at 450 volts D.C. working voltage, 550 volts peak. All single units have flexible insulated wire leads. Each section of the double units is a separate condenser in itself. All cardboard units have convenient mounting tabs for easy mounting. All upright multiple units have solder lug terminals. Every stock service shop should have a stock of these high quality replacement type condensers on hand for every emergency. Stock up with these high quality Knight Dry Electrolytics on your next order—save money and use the best.

550 VOLTS DC PEAK

CARDBOARD	METAL CANS
2 MFD. 1 1/2 x 1 3/4 x 1 3/4	8 MFD. 1 1/2 x 1 3/4 x 1 3/4
B3836 ... 21c	B3842 ... 30c
4 MFD. 1 1/2 x 1 3/4 x 1 3/4	4-4 MFD. 1 1/2 x 1 3/4 x 1 3/4
B3837 ... 23c	B3843 ... 42c
8 MFD. 1 1/2 x 1 3/4 x 1 3/4	8-8 MFD. 1 1/2 x 1 3/4 x 1 3/4
B3838 ... 26c	B3844 ... 58c
4-4 MFD. 1 1/2 x 1 3/4 x 1 3/4	8-8-8 MFD. 1 1/2 x 1 3/4 x 1 3/4
B3839 ... 40c	B3845 ... 88c
8-8 MFD. 1 1/2 x 1 3/4 x 1 3/4	5-15 MFD. 1 1/2 x 1 3/4 x 1 3/4
B3840 ... 49c	B3846 ... 72c
8-8-8 MFD. 1 1/2 x 1 3/4 x 1 3/4	
B3841 ... 77c	

CARTRIDGE TYPE DRY ELECTROLYTICS

High-grade units encased in impregnated moisture-proof cardboard, with 2" bare wire leads. Length, 2 1/2" diameter, 3/4" to 1". High capacity at small cost. Efficient units.

No.	Mfd.	Peak Volts	NET
B3776	2	500	20c
B3777	2	500	24c
B3778	4	500	30c
B3779	8	500	36c
B3780	8	500	30c
B3781	8	200	30c
B3782	8	200	36c
B3783	12	200	34c
B3784	12	200	38c
B3785	16	200	42c
B3786	16	200	48c
B3787	8-8	200	38c
B3788	8-8	200	42c
B3789	10	200	46c
B3790	10	200	50c
B3791	10	200	54c
B3792	10-10	250	58c
B3793	5-5	35	26c
B3794	10-10	35	28c
B3800	60	15	24c

* AEROVOX CONDENSERS



CARTRIDGE CONDENSERS

Conservatively rated compact non-inductive paper condensers. Sealed in wax-impregnated paper tubes; with wire leads. Dual section units have common top for convenient mounting.

400 Volt			500 Volt		
No.	Cap. Mfd.	NET EACH	No.	Cap. Mfd.	NET EACH
B6800	.001	B6818	.001	B6826	12c
B6802	.002	B6819	.002	B6827	15c
B6803	.004	B6821	.004	B6828	15c
B6804	.005	B6822	.005	B6829	15c
B6805	.006	B6823	.006	B6830	29c
B6806	.01	B6824	.01	B6831	30c
B6807	.015	B6825	.015	B6832	50c
B6808	.02	B6826	.02	B6833	50c
B6809	.03	B6827	.03	B6834	50c
B6810	.04	B6828	.04	B6835	50c
B6811	.05	B6829	.05	B6836	50c
B6812	.1	B6830	.1	B6837	50c
B6813	.15	B6831	.15	B6838	50c
B6814	.2	B6832	.2	B6839	50c
B6815	.4	B6833	.4	B6840	50c

1000 Volt Tubular Units			
No.	Mid.	List	NET
B6836	.006	.20c	
B6837	.01	.20c	12c
B6838	.015	.25c	
B6839	.02	.25c	15c
B6840	.03	.30c	15c
B6841	.05	.35c	24c
B6842	.1	.40c	24c

BAKELITE MICA CONDENSERS

TYPE 1457 Compact "postage-stamp" type condenser. Ideal for both high-frequency and audio by-pass circuits. Sealed in bakelite case which eliminates all climate and temperature conditions. Selected ruby mica dielectric.

TYPE 1458

TYPE 1459

Cap. Mfd.	No. Type 1457	No. Type 1458	No. Type 1459	NET EACH
.0004	B6858	B6864	B6875	9c
.0005	B6851	B6865	B6876	
.00075	B6852	B6866	B6877	
.001	B6853	B6867	B6878	
.0015	B6854	B6868	B6879	
.002	B6855	B6869	B6880	12c
.0025	B6856	B6870	B6881	
.0037	B6857	B6871	B6882	
.005	B6858	B6872	B6883	
.01	B6859	B6873	B6884	
.015	B6860	B6874	B6885	18c
.02	B6861	B6875	B6886	21c
.025	B6862	B6876	B6887	22c
.03	B6863	B6877	B6888	22c



TYPE 1450 CONDENSERS

Accurate mica-tinfoling condensers in bakelite cases. Handy soldering lugs. Working voltage up to 500 volts D.C. Tested at 1000 volts. Thoroughly sealed against changes in humidity. Capacity of units is clearly marked on case.

No.	Mid.	No.	Mid.	NET EACH
B6890	.00075	B6894	.0002	15c
B6891	.00075	B6895	.00025	
B6892	.00075	B6896	.0005	
B6893	.001	B6897	.0005	

No.	Mid.	NET
B6898	.001	15c
B6899	.0015	18c
B6900	.002	21c
B6901	.0025	21c
B6902	.003	24c
B6903	.004	26c
B6904	.005	26c
B6905	.006	26c
B6906	.008	35c
B6907	.01	41c
B6908	.015	50c
B6909	.02	50c

AEROVOX ELECTROLYTIC CONDENSERS

ROUND METAL CAN DRY ELECTROLYTICS



Inverted mounting, aluminum can type condensers suitable for use in any filter circuit. Threaded stem, 3/8" diam., fitted with locking nut. All units equipped with 5" flexible insulated color-coded leads. Multiple section units have separate positive and negative leads; may be used in either common negative or common positive circuits. Metal can is insulated from condenser sections. These high-quality condensers are ideal for all types of replacement or construction work; carefully designed and conservatively rated for long, trouble-free service. Every Serviceman should carry a small stock of the types listed for increased profit.

TYPE GLS—SINGLE SECTION WITH TWO LEADS

525 Volt D.C. Max. Surge				
No.	Mid.	Size	NET	Stock
B6771	2	1 1/2 x 1 1/2"	\$0.50	.02
B6772	4	1 1/2 x 1 1/2"	.82	.02
B6773	12	1 1/2 x 1 1/2"	.82	.02
B6774	16	1 1/2 x 1 1/2"	.91	.02

TYPE 2GLS—DOUBLE SECTION WITH FOUR LEADS

525 Volt D.C. Max. Surge				
No.	Mid.	Size	NET	Stock
B6775	4-4	1 1/2 x 1 1/2"	\$0.76	
B6776	4-8	1 1/2 x 1 1/2"	.86	
B6777	8-8	1 1/2 x 1 1/2"	.94	

TYPE 3GLS—TRIPLE SECTION WITH SIX LEADS

525 Volt D.C. Max. Surge				
No.	Mid.	Size	NET	Stock
B6778	4-4-4	1 1/2 x 1 1/2"	\$1.18	
B6779	8-8-8	1 1/2 x 1 1/2"	1.41	

TYPE 3GLS—TRIPLE SECTION WITH SIX LEADS

300 Volt D.C. Max. Surge				
No.	Mid.	Size	NET	Stock
B6780	8-8-8	1 1/2 x 3 1/4"	\$1.23	
B6781	8-8-16	1 1/2 x 3 1/4"	1.38	
B6782	8-16-16	1 1/2 x 3 1/4"	1.53	

ULTRA-COMPACT TYPE GLS INVERTED



An ultra-compact metal can electrolytic for general replacement purposes or for use where space is at a premium. Sections are insulated from runs. Equipped with long flexible leads. Has threaded hard-rubber stem for inverted mounting. Particularly adapted to replacement work.

525 Volt Max. Surge				
No.	Mid.	Size	NET	Stock
B6942	4	1 x 2 1/2"	50c	
B6943	12	1 x 2 1/2"	82c	
B6944	16	1 x 2 1/2"	91c	

300 Volt Max. Surge				
No.	Mid.	Size	NET	Stock
B6946	4	1 x 2 1/2"	44c	
B6947	8	1 x 2 1/2"	56c	
B6948	12	1 x 2 1/2"	79c	
B6949	16	1 x 2 1/2"	79c	

UNIVERSAL MOUNTING MULTIPLE SECTIONS



These high quality dry electrolytic condensers are exact replacements for a large number of popular radio receivers. Absolutely dependable units, hermetically sealed. Supplied with clamping rings for universal mounting.

TYPE E-450 UPRIGHT 525 Volt D.C. Max. Surge				
Stock No.	Cap. Mfd.	Size	NET EACH	Stock
B6785	5-15	2 1/2 x 4 1/2"	\$1.35	
B6786	8-8-8	3 x 4 1/2"	1.59	
B6787	8-8-16	3 x 4 1/2"	2.03	
B6788	8-8-8-8	3 x 4 1/2"	2.12	

SMALL CARDBOARD DRY ELECTROLYTICS



Space-saver midsize 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-450 525 Volt D.C. Max. Surge				
No.	Mid.	Size	NET	Stock
B6750	2	1 1/2 x 2 1/2"	\$0.38	
B6751	4	1 1/2 x 2 1/2"	.44	
B6752	8	1 1/2 x 2 1/2"	.58	
B6753	10	1 1/2 x 2 1/2"	.66	
B6754	12	1 1/2 x 2 1/2"	.76	
B6755	16	1 1/2 x 2 1/2"	.85	
B6756	4-4	1 1/2 x 2 1/2"	.89	
B6757	8-8	1 1/2 x 2 1/2"	.95	
B6758	8-8-8	1 1/2 x 2 1/2"	1.29	

TYPE PBS-200 350 Volt D.C. Max. Surge				
No.	Mid.	Size	NET	Stock
B6760	2	1 1/2 x 2 1/2"	\$0.32	
B6761	4	1 1/2 x 2 1/2"	.38	
B6762	8	1 1/2 x 2 1/2"	.47	
B6763	10	1 1/2 x 2 1/2"	.53	
B6764	12	1 1/2 x 2 1/2"	.56	
B6765	16	1 1/2 x 2 1/2"	.62	
B6766	4-4	1 1/2 x 2 1/2"	.65	
B6767	8-8	1 1/2 x 2 1/2"	.73	
B6768	8-16	1 1/2 x 2 1/2"	.85	
B6769	8-8-8	1 1/2 x 2 1/2"	1.12	

TYPE "P" ELECTROLYTICS

Wax-filled units, conservatively rated. Flexible leads are securely anchored.

525 Volt Max. Surge				
No.	Mid.	Size	NET	Stock
B6931	2	1 1/2 x 2 1/2"	\$0.38	
B6932	4	1 1/2 x 2 1/2"	.44	
B6933	8	1 1/2 x 2 1/2"	.58	
B6934	12	1 1/2 x 2 1/2"	.76	
B6935	16	1 1/2 x 2 1/2"	.85	
B6936	4-4	1 1/2 x 2 1/2"	.89	
B6937	8-8	1 1/2 x 2 1/2"	.95	

600 Volt Max. Surge				
No.	Mid.	Size	NET	Stock
B6939	2	1 1/2 x 2 1/2"	\$0.56	
B6940	4	1 1/2 x 2 1/2"	.68	
B6941	8	1 1/2 x 2 1/2"	.79	

TUBULAR ELECTROLYTICS

Light and compact units for replacement use or for construction work. Ideal for by-pass and filter requirements. With securely riveted tin-plated wire leads. TYPE PR.

No.	Mid.	Wks. V.	Size	NET
B6911	2	450	1 1/2 x 2 1/2"	38c
B6912	4	450	1 1/2 x 2 1/2"	56c
B6913	8	400	1 1/2 x 2 1/2"	56c
B6914	8	200	1 1/2 x 2 1/2"	47c
B6915	10	200	1 1/2 x 2 1/2"	53c
B6916	12	100	1 1/2 x 2 1/2"	29c
B6917	5	50	1 1/2 x 2 1/2"	29c
B6918	10	50	1 1/2 x 2 1/2"	38c
B6919	10	50	1 1/2 x 2 1/2"	47c
B6920	25	50	1 1/2 x 2 1/2"	47c
B6921	30	50	1 1/2 x 2 1/2"	71c
B6922	5-5	50	1 1/2 x 2 1/2"	44c
B6923	5	25	1 1/2 x 2 1/2"	35c
B6924	10	25	1 1/2 x 2 1/2"	29c
B6925	20	25	1 1/2 x 2 1/2"	35c
B6926	25	25	1 1/2 x 2 1/2"	35c
B6927	50	25	1 1/2 x 2 1/2"	56c
B6928	5-5	25	1 1/2 x 2 1/2"	44c
B6929	10-10	25	1 1/2 x 2 1/2"	44c

WET ELECTROLYTICS

TYPE PG. Use these electrolytics for heavy-duty work where dry units give trouble. Positively non-leaking. 500 Volts DC peak. 450 Volts DC working. With stud and nut inverted mounting.

Stock No.	Cap. Mfd.	Dia.	Ht.	NET EACH
B6843	4	1 1/2 x 1 1/2"		\$0.47
B6844	8	1 1/2 x 1 1/2"		.50
B6845	8	1 1/2 x 1 1/2"		.56
B6846	12	1 1/2 x 1 1/2"		.63
B6847	16	1 1/2 x 1 1/2"		.79
B6848	20	1 1/2 x 1 1/2"		.88
B6849	30	1 1/2 x 1 1/2"		1.08





CORNELL DUBILIER CONDENSERS



DRY ELECTROLYTIC CONDENSERS

CARDBOARD CASED DWARF MIDGETS

TYPE JR
Dependable, inexpensive, compact dry electrolytics. For use in limited space; make ideal replacements in the smallest midget sets. Suitable for every type of radio service job where space is limited. In silver-plated containers; sealed against humidity. With adjustable mounting feet.



525 V. DC Peak, 450 V. DC Wkg.			
No.	Mfd.	Size	NET
B33025	2	2 1/2" x 1 1/2" x 1/2"	\$0.48
B33026	4	2 1/2" x 1 1/2" x 1/2"	\$0.44
B33027	8	2 1/2" x 1 1/2" x 1/2"	.56
B33028	10	2 1/2" x 1 1/2" x 1/2"	.68
B33029	12	2 1/2" x 1 1/2" x 1/2"	.71
B33030	14	2 1/2" x 1 1/2" x 1/2"	.79
B33031	4-8	2 1/2" x 1 1/2" x 1/2"	.88
B33032	8-16	2 1/2" x 1 1/2" x 1/2"	1.26

250 V. DC Peak, 200 V. DC Wkg.			
No.	Mfd.	Size	NET
B33688	4	2 1/2" x 1 1/2" x 1/2"	\$0.38
B33689	8	2 1/2" x 1 1/2" x 1/2"	.42
B33690	10	2 1/2" x 1 1/2" x 1/2"	.47
B33691	12	2 1/2" x 1 1/2" x 1/2"	.56
B33692	16	2 1/2" x 1 1/2" x 1/2"	.62
B33693	4-4	2 1/2" x 1 1/2" x 1/2"	.68
B33694	4-8	2 1/2" x 1 1/2" x 1/2"	.73
B33695	8-8	2 1/2" x 1 1/2" x 1/2"	.88
B33696	8-8	2 1/2" x 1 1/2" x 1/2"	1.12

METAL CAN DWARF MIDGETS

TYPE KR
Etched-foil dry electrolytic condensers—as small as a 6K7 tube. May be easily installed on the smallest chassis, giving the serviceman a safe and dependable job. Multiple units have two separate leads for each section. High quality etched foil assembly assures long life and high efficiency. Ideal low cost replacements.



525 V. DC Peak, 450 V. DC Wkg.			
No.	Mfd.	Size	NET
B33670	4	1 1/2" x 2 1/2"	\$0.50
B33671	8	1 1/2" x 2 1/2"	.62
B33672	12	1 1/2" x 2 1/2"	.82
B33673	4-8	1 1/2" x 2 1/2"	.85
B33674	8-8	1 1/2" x 2 1/2"	.94
B33675	8-16	1 1/2" x 2 1/2"	1.32
B33676	8-8-8	1 1/2" x 2 1/2"	1.35

300 V. DC Peak, 250 V. DC Wkg.			
No.	Mfd.	Size	NET
B33680	4	1 1/2" x 2 1/2"	\$0.44
B33681	8	1 1/2" x 2 1/2"	.56
B33682	12	1 1/2" x 2 1/2"	.66
B33683	4-8	1 1/2" x 2 1/2"	.76
B33684	8-8	1 1/2" x 2 1/2"	.88
B33685	8-16	1 1/2" x 2 1/2"	1.15
B33686	8-8-8	1 1/2" x 2 1/2"	1.23

TYPE EH

Build up your service profits with these high quality electrolytic condensers. In impregnated cardboard cases with punched flanges to facilitate mounting. Multiple units have common negative leads. Working voltage, 450 V. D.C. Surge voltage, 525 V. D.C. All units have long flexible insulated wire leads. Carefully built for long service.



525 Volts DC Peak			
No.	Mfd.	Size	NET
B33601	4	4 1/2" x 1 1/2" x 1/2"	\$0.44
B33603	8	4 1/2" x 1 1/2" x 1/2"	.56
B33604	15	4 1/2" x 1 1/2" x 1/2"	.86
B33605	4-4	4 1/2" x 1 1/2" x 1/2"	.94
B33606	4-8	4 1/2" x 1 1/2" x 1/2"	.79
B33609	8-8	4 1/2" x 1 1/2" x 1/2"	.88
B33610	4-4-4	4 1/2" x 1 1/2" x 1/2"	1.09
B33611	8-8-8	4 1/2" x 1 1/2" x 1/2"	1.29



TUBULAR ELECTROLYTICS TYPE ED

Compare dry electrolytic condensers for use where high capacity low leakage units are required. Well-made; double-sealed in durable cardboard containers. With tinned wire leads.

No. Mid. Peak V. Wkg. V. Size NET					
B37000	5	35	25	2 1/2" x 1 1/2" x 1/2"	29c
B37001	10	35	25	2 1/2" x 1 1/2" x 1/2"	35c
B37002	20	35	25	2 1/2" x 1 1/2" x 1/2"	35c
B37003	25	35	25	2 1/2" x 1 1/2" x 1/2"	38c
B37004	50	35	25	2 1/2" x 1 1/2" x 1/2"	66c
B37005	5	35	25	2 1/2" x 1 1/2" x 1/2"	41c
B37006	10-10	35	25	2 1/2" x 1 1/2" x 1/2"	44c
B37007	5	75	50	2 1/2" x 1 1/2" x 1/2"	29c
B37008	10	75	50	2 1/2" x 1 1/2" x 1/2"	35c
B37009	25	75	50	2 1/2" x 1 1/2" x 1/2"	47c
B37010	50	75	50	2 1/2" x 1 1/2" x 1/2"	71c
B3711	5	150	100	2 1/2" x 1 1/2" x 1/2"	32c
B3712	10	150	100	2 1/2" x 1 1/2" x 1/2"	38c
B3713	25	150	100	2 1/2" x 1 1/2" x 1/2"	65c
B3883	4	200	150	2 1/2" x 1 1/2" x 1/2"	35c
B3884	8	200	150	2 1/2" x 1 1/2" x 1/2"	38c
B3885	2	200	200	2 1/2" x 1 1/2" x 1/2"	32c
B3886	4	250	200	2 1/2" x 1 1/2" x 1/2"	38c
B3887	8	250	200	2 1/2" x 1 1/2" x 1/2"	38c
B3888	4	300	250	2 1/2" x 1 1/2" x 1/2"	38c
B3889	8	300	250	2 1/2" x 1 1/2" x 1/2"	50c
B3890	10	300	250	2 1/2" x 1 1/2" x 1/2"	56c
B3891	16	300	250	2 1/2" x 1 1/2" x 1/2"	68c
B3892	2	350	300	2 1/2" x 1 1/2" x 1/2"	35c
B3893	4	350	300	2 1/2" x 1 1/2" x 1/2"	38c
B3894	8	350	300	2 1/2" x 1 1/2" x 1/2"	50c
B3895	2	450	400	2 1/2" x 1 1/2" x 1/2"	32c
B3896	4	450	400	2 1/2" x 1 1/2" x 1/2"	38c
B3897	8	450	400	2 1/2" x 1 1/2" x 1/2"	44c
B3898	2	550	500	2 1/2" x 1 1/2" x 1/2"	56c
B3899	4	550	500	2 1/2" x 1 1/2" x 1/2"	62c
B3900	8	550	500	2 1/2" x 1 1/2" x 1/2"	88c

WET ELECTROLYTICS TYPE EY

Ideal for all heavy-duty work where there is a large amount of heat and moisture in operation. Low power factor and leakage current. In round aluminum container with slip-on nut mountings. These wet electrolytic units are rated at a maximum peak D.C. voltage of 500. Can be effectively used for replacements in older sets using "bute force" filter circuits.



No.	Mfd.	Size	NET
B3715	4	3 1/2" x 1 1/2"	50c
B3716	6	4 1/2" x 1 1/2"	56c
B3717	8	4 1/2" x 1 1/2"	62c
B3718	10	4 1/2" x 1 1/2"	68c
B3719	12	4 1/2" x 1 1/2"	71c
B3720	16	4 1/2" x 1 1/2"	79c
B3721	8	5 1/2" x 1 1/2"	88c

"DWARF" TUBULAR PAPER CONDENSERS TYPE DT

Reliable non-inductive all-purpose condensers. Wax-impregnated a and triple-sealed against moisture. Low power factor and high DC resistance make these units ideal for all RF, IF and audio bypass requirements. With securely fastened 2 1/2" tinned leads.

400 Volts DC Wkg. V.			
No.	Mfd.	Size	NET
B33000	.01	1 1/2" x 1 1/2" x 1/2"	9c
B33001	.02	1 1/2" x 1 1/2" x 1/2"	12c
B33002	.05	1 1/2" x 1 1/2" x 1/2"	12c
B33003	.1	1 1/2" x 1 1/2" x 1/2"	21c
B33004	.25	2 1/2" x 1 1/2" x 1/2"	29c
B33005	.5	2 1/2" x 1 1/2" x 1/2"	32c
B33006	1.0	2 1/2" x 1 1/2" x 1/2"	32c
B33007	1-1	2 1/2" x 1 1/2" x 1/2"	32c
B33008	25-25	2 1/2" x 1 1/2" x 1/2"	50c

500 Volts DC Wkg. V.			
No.	Mfd.	Size	NET
B33100	.00025	1 1/2" x 1 1/2" x 1/2"	9c
B33101	.0005	1 1/2" x 1 1/2" x 1/2"	9c
B33102	.001	1 1/2" x 1 1/2" x 1/2"	9c
B33103	.002	1 1/2" x 1 1/2" x 1/2"	9c
B33104	.004	1 1/2" x 1 1/2" x 1/2"	9c
B33105	.008	1 1/2" x 1 1/2" x 1/2"	9c
B33106	.01	1 1/2" x 1 1/2" x 1/2"	9c
B33107	.02	1 1/2" x 1 1/2" x 1/2"	9c
B33108	.05	1 1/2" x 1 1/2" x 1/2"	15c
B33109	.1	2 1/2" x 1 1/2" x 1/2"	21c
B33110	.25	2 1/2" x 1 1/2" x 1/2"	29c
B33111	.5	2 1/2" x 1 1/2" x 1/2"	29c
B33112	1-1	2 1/2" x 1 1/2" x 1/2"	38c



MOLDED BAKELITE MICA CONDENSERS

Ideal for base and coupling condensers for all RF and audio circuits. Conservative working voltage rating of 300 V. D.C. is based on test tolerance of 1000 V. D.C. Type W are 1/2" x 1/2" x 1/2" to .0005 mfd.; higher capacities are 1 1/2" x 1 1/2" x 1/2". Type L, all capacities, are 1 1/2" x 1 1/2" x 1/2". The choice of discriminating Service Engineers and Amateurs.

Cap. Mfd.	Type W	Type L	NET EACH Either Type
.00003	B3641	B3652	9c
.00005	B3642	B3653	9c
.0001	B3643	B3654	15c
.00025	B3644	B3655	24c
.0005	B3645	B3656	26c
.001	B3646	B3657	32c
.002	B3647	B3658	32c
.005	B3648	B3659	32c
.008	B3649	B3660	32c
.005	B3650	B3661	32c
.005	B3651	B3662	35c



VIBRATOR REPLACEMENT CONDENSERS

Oil-filled, completely sealed units for auto radio power supplies. Can be used as replacements or for original installations. All are 2000 V. D.C. except Type C-01 units, which is 1500 V. D.C. and Type C-5 mfd., which is 200 V.

No.	Type	Mfd.	Size	NET
B3722	A	.015	5/8" x 3/4" x 3/4"	26c
B3723	A	.015	5/8" x 3/4" x 3/4"	26c
B3724	A	.02	5/8" x 3/4" x 3/4"	26c
B3725	A	.02	1 1/8" x 3/4" x 3/4"	26c
B3726	B	.02	1 1/8" x 3/4" x 3/4"	24c
B3727	B	.03	2 1/4" x 1 1/2" dia.	29c
B3728	B	.04	2 1/4" x 1 1/2" dia.	35c
B3729	B	.05	2 1/4" x 1 1/2" dia.	35c
B3730	C	5	1 1/2" x 1 1/2" x 1/2"	38c

TOBE ELECTROLYTIC CONDENSERS



SURGPROOF TUBULAR CONDENSERS

Space-saving non-inductive condensers. Vacuum-impregnated for protection against excessive moisture. Special metal end plates radiate heat from your condenser from and prevent intermittent capacity changes. Easily supported anywhere by their strong 2 1/2 inch thinned copper wire leads. Conservatively rated. Only high quality materials are used, making these units ideal for all radio and audio-frequency bypass service. Ideal for every replacement or original installation. Increase your profits by using these high-quality low-priced units.

400 VOLTS			NET EACH
No.	Mfd.	Size	
BB4466	.001	1 1/2" x 1 1/2"	11c
BB4467	.002	1 1/2" x 1 1/2"	
BB4465	.005	1 1/2" x 1 1/2"	
BB4468	.004	1 1/2" x 1 1/2"	
BB4469	.005	1 1/2" x 1 1/2"	
BB4470	.006	1 1/2" x 1 1/2"	
BB4471	.008	1 1/2" x 1 1/2"	
BB4472	.01	1 1/2" x 1 1/2"	
BB4473	.02	1 1/2" x 1 1/2"	
BB4477	.03	1 1/2" x 1 1/2"	
BB4475	.05	1 1/2" x 1 1/2"	12c
BB4476	.06	1 1/2" x 1 1/2"	13c
BB4478	.08	1 1/2" x 1 1/2"	14c
BB4486	.25	1 1/2" x 1 1/2"	16c
BB4487	.5	1 1/2" x 1 1/2"	18c
BB4490	.1	1 1/2" x 1 1/2"	21c
BB4491	.25	1 1/2" x 1 1/2"	22c
BB4492	.5	1 1/2" x 1 1/2"	23c
BB4493	1.0	1 1/2" x 1 1/2"	24c

400 VOLTS			NET EACH
No.	Mfd.	Size	
BB4474	.04	1 1/2" x 1 1/2"	13c
BB4475	.05	1 1/2" x 1 1/2"	13c
BB4476	.06	1 1/2" x 1 1/2"	14c
BB4486	.25	1 1/2" x 1 1/2"	16c
BB4487	.5	1 1/2" x 1 1/2"	18c

300 VOLTS			NET EACH
No.	Mfd.	Size	
BB4490	.1	1 1/2" x 1 1/2"	13c
BB4491	.25	1 1/2" x 1 1/2"	18c
BB4492	.5	1 1/2" x 1 1/2"	21c
BB4493	1.0	1 1/2" x 1 1/2"	24c

SURGPROOF REPAIR CONDENSERS

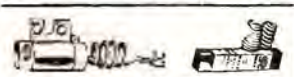
Compact filter sections that simplify service work. Compact, moisture-proof. These high quality units are built for the hardest tests of service under conditions which cause early failure of ordinary paper condensers. Tested at four times their rated working voltage. With long flexible insulated leads.

400 VOLT CONDENSERS			NET EACH
No.	Mfd.	Size	
BB4479	.1	1 1/2" x 1 1/2"	21c
BB4480	.25	1 1/2" x 1 1/2"	26c
BB4481	.5	1 1/2" x 1 1/2"	44c
BB4482	1.0	1 1/2" x 1 1/2"	68c

300 VOLT CONDENSERS			NET EACH
No.	Mfd.	Size	
BB4483	.1	1 1/2" x 1 1/2"	26c
BB4484	.25	1 1/2" x 1 1/2"	32c
BB4485	.5	1 1/2" x 1 1/2"	38c
BB4486	1.0	1 1/2" x 1 1/2"	79c

300 VOLT CONDENSERS			NET EACH
No.	Mfd.	Size	
BB4445	1	4" x 2 1/2" x 1 1/2"	\$0.71
BB4446	2	4" x 2 1/2" x 1 1/2"	1.12

1000 VOLT CONDENSERS			NET EACH
No.	Mfd.	Size	
BB4447	1	4" x 2 1/2" x 1 1/2"	88c



TOBE AUTO VIBRATOR REPLACEMENT CONDENSERS

Oil-impregnated condensers especially designed for vibrator work. Well-built to safely stand surges and transients up to 1600 volts D.C. BB517. For Model 44 Motorola. 75x kilohms as illustrated. .05 mfd. 2 1/2" x 1 1/2". **YOUR PRICE 35c**
 BB518. Tubular .01, 1 1/2" x 1 1/2". For Motorola 44, 77A, 66, 160. **NET 18c**
 BB519. Tubular .02, 1 1/2" x 1 1/2". **NET 24c**
 BB520. Tubular .05, 1 1/2" x 1 1/2". **YOUR PRICE 29c**

TOBE ELECTROLYTIC CONDENSERS



STANDARD FLEXIDONS

Something new in condenser construction. Compact high-voltage electrolytic condensers featuring a patented asphalt casing, tin-plated mounting bracket, conservative rating, etc. Each section of multiple units has individual positive and negative leads. Leads may be easily removed and replaced in case of failure, without bothering undamaged sections. Wax plug end seal is provided for each section this sealing condenser ends against moisture. Flexible, insulated, color-coded leads are firmly fastened to sections. Operating voltage, 475 volts D.C.

525 Volt DC Peak			NET EACH
No.	Mfd.	Size	
BB4429	1	3 1/2" x 1 1/2"	\$0.32
BB4430	2	2 1/2" x 1 1/2"	.38
BB4431	4	2 1/2" x 1 1/2"	.44
BB4432	4	3 1/2" x 1 1/2"	.86
BB4433	8	3 1/2" x 1 1/2"	.71
BB4434	4-4	3 1/2" x 1 1/2" x 1 1/2"	.79
BB4435	4-8	3 1/2" x 1 1/2" x 1 1/2"	.93
BB4436	8-8	3 1/2" x 1 1/2" x 1 1/2"	1.06
BB4440	8-8-8	3 1/2" x 2 1/2" x 1 1/2"	1.29

COMPACT FLEXIDONS

Ultra-compact condensers of latest design. May be fitted into practically any chassis. Have tin-plated leads for either bolt or soldered mounting. Conservatively rated; designed to give long trouble-free service. Can be mounted in any position.

200 V. D.C. Working			NET EACH
No.	Mfd.	Size	
BB3362	4-4	1 1/2" x 1 1/2"	\$0.53
BB3363	8-8	1 1/2" x 1 1/2"	.71
BB3364	8-16	1 1/2" x 1 1/2"	.79

475 V. D.C. Working			NET EACH
No.	Mfd.	Size	
BB3375	4	2 1/2" x 1 1/2"	.44
BB3376	8	2 1/2" x 1 1/2"	.56
BB3380	4-4	2 1/2" x 1 1/2" x 1 1/2"	.71
BB3381	8-8	2 1/2" x 1 1/2" x 1 1/2"	.86
BB3382	4-4-4	2 1/2" x 1 1/2" x 1 1/2"	1.18

300 V. D.C. Working			NET EACH
No.	Mfd.	Size	
BB3383	2	2 1/2" x 1 1/2" x 1 1/2"	.79

COMPACT UNIONS "BUILD YOUR OWN"

No more trouble with those A.C.-D.C. specials. These UNIONS can be combined to assemble any block you need. Same quality as the standard FLEXIDONS, but smaller and will stack up to any known combination. These individual sections meet all needs for highest quality and versatility.

An assortment of these units will allow you to repair any small set unit and profitably. No delay ordering exact duplicates. Take your sections, wire them up, wire them in, and the job is done faster than ever before.

150 Volts Working			NET EACH
No.	Mfd.	Size	
BB3385	8-8	2 1/2" x 1 1/2" x 1 1/2"	29c
BB3386	12-0	2 1/2" x 1 1/2" x 1 1/2"	36c
BB3387	12-0	2 1/2" x 1 1/2" x 1 1/2"	41c

25 Volts Working			NET EACH
No.	Mfd.	Size	
BB3388	3	2 1/2" x 1 1/2" x 1 1/2"	24c
BB3389	10	2 1/2" x 1 1/2" x 1 1/2"	24c
BB3390	10-10	2 1/2" x 1 1/2" x 1 1/2"	36c



KIT NO. 1
 Consists of the following 500 Volt Dry Electrolytic condensers in a steel cabinet: 2-8 mfd. in metal cabinets; 5-8 mfd. and 2-1 mfd. units in cardboard containers. **BB523. WITH CABINET. NET \$4.91**

NEW TUBIDONS

The ideal compact condenser to use for universal replacement service. Thru-sealed with asphalt-lined paper; completely moisture-proof. Terminals can't corrode. Built for dependable long life under all types of climatic conditions.

No.	Mfd.	Wkg. V.	Leads Dia.	NET EACH
BB322	2	500	2 1/2" x 1"	53c
BB323	8	475	2 1/2" x 1 1/4"	62c
BB300	2	475	2 1/2" x 1 1/4"	29c
BB301	2	475	2 1/2" x 1 1/4"	32c
BB302	4	475	2 1/2" x 1 1/4"	35c
BB303	4	475	2 1/2" x 1 1/4"	38c
BB304	2	200	2 1/2" x 1"	28c
BB305	4	200	2 1/2" x 1"	29c
BB306	8	200	2 1/2" x 1"	32c
BB307	12	200	2 1/2" x 1"	35c
BB308	16	200	2 1/2" x 1"	44c
BB309	5	50	2 1/2" x 1"	26c
BB310	5	50	2 1/2" x 1"	28c
BB311	25	50	2 1/2" x 1"	41c
BB312	50	50	2 1/2" x 1"	56c
BB313	5-5	50	2 1/2" x 1"	44c
BB314	10-10	50	2 1/2" x 1"	47c
BB315	5	35	2 1/2" x 1"	24c
BB316	10	35	2 1/2" x 1"	26c
BB317	25	35	2 1/2" x 1"	32c
BB318	50	35	2 1/2" x 1"	47c
BB319	5-5	35	2 1/2" x 1"	38c
BB320	10-10	35	2 1/2" x 1"	41c

METAL CAN UNITS

High quality filter units. Single sections have threaded stud for inverted mounting; with tapped 6-32 hole for upright mounting; with flexible leads. Multiple sections have screw terminals and clamping rings.

300 Volt DC Peak			NET EACH
No.	Mfd.	Hght.	
BB418	4	3 1/2"	\$0.50
BB419	8	3 1/2"	.62
BB420	16	3 1/2"	.74
BB421	3-5	2 1/2"	1.02
BB418	8-8	1 1/2"	.94
BB423	8-8	1 1/2"	1.06
BB424	8-8	1 1/2"	1.18
BB425	8-8-8	3"	1.59
BB426	3-9-18	3"	2.12
BB427	9-9-18-18	3"	2.70

SPECIAL UNITS FOR AC-DC RECEIVERS

Popular combinations in single and multiple section tubular electrolytics. In sturdy aluminum paper tubes with 6" insulated flexible leads for connection. Dimensions: 4 1/2" x 1 1/2" x 1 1/2". Mounting centers of spade lugs: 1 1/2".

No.	Mfd.	Wkg. Volts	NET EACH
BB325	16	475	\$0.82
BB326	4-4	475	.73
BB327	4-4	475	.79
BB328	8-8	475	.94
BB329	8-8-8	200	1.06
BB330	8-16	200	1.18
BB331	8-16	200	1.32
BB332	10-10	35	1.32

HANDY CONDENSER KITS WITH FREE METAL CABINETS

These handy set cabinets may be obtained FREE by purchasing the fast-moving Tube Replacement Condenser Kits. Offered in three useful assortments in convenient and substantial olive-green steel cabinets. 3 1/2" x 2 1/2" x 2 1/2". Cabinets may be fastened together as new kits are purchased. Handy for storage of resistors, screws, lugs, and other small parts as well as condensers. Convenient for filing purposes.

KIT NO. 1
 Consists of the following Tube Tubular Condensers in a steel cabinet: 600 Volt units: 3-.001, 2-.002, 2-.005, 2-.01, 3-.02, 400 Volt units: 5-.05, 5-1, 3-25, 3-5.
BB522. WITH CABINET. NET \$4.84

KIT NO. 2
 Consists of the following electrolytic section Tube Tubulons in a steel cabinet: 5-8 mfd., 325 volt sections; 5-8 mfd., 200 volt sections; 2-16 mfd., 250 volt sections.
BB524. WITH CABINET. NET \$4.56

Values in POWER TRANSFORMERS

LOW-COST PHILCO EXACT DUPLICATE POWER TRANSFORMERS



A newly developed line of high-quality exact duplicate Philco Replacement power transformers. These units are exactly identical to the original in every electrical and physical characteristic. They were produced only after thorough examination of burned-out and otherwise defective original transformers. High quality at low prices.

No.	Models	NET
B11684	18	\$3.59
B11685	20, 220	2.70
B11686	50, 51, 52, 551	2.07
B11687	65	2.50
B11688	70, 270, 370, 470, 570	2.45
B11689	76, 77	2.70
B11690	86	2.60
B11691	87	2.35
B11692	90 (1-47)	2.95
B11693	90 (2-47)	2.75
B11694	90 (2-45)	2.60
B11695	91	2.80
B11696	95, 96, 206	2.85
B11697	111, 112, 212, (445's)	3.10
B11698	112, 212, (475's)	3.10
B11699	111, 112	2.19
B11680	16, 17 (Code 122)	3.10
B11681	14, 91 (Code 221-3)	2.70
B11682	16, 17 (Code 121)	2.70
B11683	21	2.85

Additional Exact Duplicate transformers for all sets are listed on Page 64. We can supply exact duplicate power transformers for all Philco sets, at correspondingly low prices. Write us for prices, or order, with deposit, giving model number and tube lineup of set.

KNIGHT HIGH-QUALITY POWER TRANSFORMERS

Substantially values in carefully designed and well-constructed compact power transformers. Only the quality materials are used throughout. Conservatively rated for long-lived efficient service. Several types insure selection of proper transformer for practically all set requirements.

A TRANSFORMER FOR EVERY PURPOSE

Terminal arrangement suitable for sub-panel wiring. It is not necessary to bring leads through chassis base. Easily installed as cover bolts furnish positive, solid mounting. Ideal for use in limited space. These transformers are a boon to the serviceman, providing low cost, high-grade quality replacement purposes. Use them regularly for bigger profits.

FOR 2.5 VOLT TUBES

Popular transformers for Midco receivers and sets using the 2.5 volt series of tubes.

4 OR 5 TUBE SETS

For: 2-24, 27, or 3-56, 57; 1-45, 47; 1-80.
 Primary: 115 V. at 50/60 cycles.
 Sec.: 500 V. at 10 M.A.-C.T.
 2.5 V. at 5.0 Amps.-C.T.
 5.0 V. at 2.0 Amps.
 Mfg.: 2 1/2" x 3 1/2". Shpg. wt. 2 lbs.
B11675. YOUR PRICE..... 71c

5 TO 7 TUBE SETS

For: 3-24, 27, or 5-56, 57; 1-45, 47; 1-80.
 Primary: 115 V. at 50/60 cycles.
 Sec.: 850 V. at 50 M.A.-C.T.
 2.5 V. at 7.0 Amps.-C.T.
 5.0 V. at 2.0 Amps.
 Mfg.: 2 1/2" x 3 1/2". Shpg. wt. 2 1/2 lbs.
B11676. YOUR PRICE..... 98c

7 TO 10 TUBE SETS

For: 4-27, 24 or 7-56, 57, 58; 2-45, 47, 245; 1-80.
 Primary: 115 V. at 50/60 cycles.
 Sec.: 700 V. at 70 M.A.-C.T.
 5 V. at 3 A.
 2.5 V. at 2.5 A.-C.T.
 2.5 V. at 7.5 A.
 Mfg.: 2 1/2" x 3 1/2". Shpg. wt. 4 lbs.
B11677. YOUR PRICE..... \$1.65

FOR 6.3 VOLT TUBES

Really unusual buys in high quality midco set transformers for the 6.3 volt series of tubes.

4 OR 5 TUBE SETS

For: 2 or 3-76, 78, 606, 6F7; 1-41, 42, 6F6; 1-80, 524.
 Primary: 115 V. at 50/60 cycles.
 Sec.: 850 V. at 40 M.A.-C.T.
 6.3 V. at 1.6 A.
 5 V. at 1 A.
 Mfg.: 2 1/2" x 3 1/2". Shpg. wt. 3 lbs.
B11678. YOUR PRICE..... 75c

6 OR 7 TUBE SETS

For: 4 or 5-77, 78, 606; 1-41, 42, 6F6; 1-80, 524.
 Primary: 115 V. at 50/60 cycles.
 Sec.: 700 V. at 50 M.A.-C.T.
 6.3 V. at 2 A.-C.T.
 5 V. at 1 A.
 Mfg.: 2 1/2" x 3 1/2". Shpg. wt. 3 lbs.
B11679. YOUR PRICE..... \$1.05

7 TO 11 TUBE SETS

For: 5 to 8-77, 606, 6A7, 6F7; 1 or 2-41, 42, 6F6; 1-80, 524, 523.
 Primary: 115 V. at 50/60 cycles.
 Sec.: 700 V. at 75 M.A.-C.T.
 6.3 V. at 3 A.-C.T.
 5 V. at 3 A.
 Mfg.: 3 1/2" x 3 1/2". Shpg. wt. 6 lbs.
B11674. YOUR PRICE..... \$1.32

NEW UTAH POWER TRANSFORMERS



First quality low-cost genuine Utah replacement transformers. Ideal for the replacement purposes or for custom-built receivers. Overall shielded transformer design especially tend to reduce both considerable. Carefully engineered and honestly rated for constant operation and maximum life. Terminals and leads are clearly marked for quick accurate connection. Units listed below are the most popularly demanded types.



FOR 6.3 VOLT TUBES

FOR 5 TO 6 TUBE SETS
HALF-SHELL TYPE
 For: 3 or 4-76, 77, 78, 606, 6D6, 6J7, 6K7; 1-41, 42, 6F6; 1-80, 524.
 Primary: 115 V. at 50/60 cycles.
 Sec.: 600 V. at 40 M.A.-C.T.
 6.3 V. at 1.6 Amps.
 5.0 V. at 2 Amps.
 Mfg.: 2 1/2" x 3 1/2". Shpg. wt. 4 lbs.
B11288. List. \$1.75. YOUR PRICE..... \$1.03

FULLY SHIELDED TYPE
 Same characteristics as transformer above except fully shielded. Has cooled leads instead of lugs.
B11289. List. \$1.90. YOUR PRICE..... \$1.12

FOR 6 OR 8 TUBE SETS
HALF-SHELL TYPE
 For: 3-76, 77, 78, 606, 6D6, 6J7, 6K7; 2-41, 42, 6F6; 1-80, 524.
 Primary: 115 V. at 50/60 cycles.
 Sec.: 700 V. at 60 M.A.-C.T.
 6.3 V. at 2.5 Amps.
 5.0 V. at 2 Amps.
 Mfg.: 2 1/2" x 3 1/2". Shpg. wt. 4 lbs.
B11290. List. \$2.85. YOUR PRICE..... \$1.68

FULLY SHIELDED TYPE
 Same characteristics as transformer above except fully shielded. Has cooled leads instead of lugs.
B11291. List. \$3.00. YOUR PRICE..... \$1.76

FOR 7 TO 9 TUBE SETS
HALF-SHELL TYPE
 For: 6-76, 77, 78, 606, 6D6, 6J7, 6K7; 2-41, 42, 6F6; 1-80, 524.
 Primary: 115 V. at 50/60 cycles.
 Sec.: 700 V. at 75 M.A.-C.T.
 6.3 V. at 3 A.-C.T.
 5.0 V. at 3 Amps.
 Mfg.: 2 1/2" x 3 1/2". Shpg. wt. 4 1/2 lbs.
B11292. List. \$3.15. YOUR PRICE..... \$1.85

FULLY SHIELDED TYPE
 Same as above except fully shielded. Has fully distinguished cooled leads.
B11293. List. \$3.30. YOUR PRICE..... \$1.94

FOR 11 TO 13 TUBE SETS
HALF-SHELL TYPE
 For: 8-76, 77, 78, 606, 6D6, 6J7, 6K7; 1 or 2-41, 42, 6F6; 1-80, 524.
 Primary: 115 V. at 50/60 cycles.
 Sec.: 700 V. at 125 M.A.-C.T.
 6.3 V. at 3 A.-C.T.
 5.0 V. at 2 Amps.
 Mfg.: 3 1/2" x 3 1/2". Shpg. wt. 5 lbs.
B11294. List. \$3.75. YOUR PRICE..... \$2.20

FULLY SHIELDED TYPE
 Same as above except fully shielded. Has cooled leads instead of lugs.
B11295. List. \$3.90. YOUR PRICE..... \$2.29

AUTO RADIO VIBRATOR TRANSFORMER

A newly developed compact transformer designed to meet the demand for a high-grade replacement transformer for auto radio vibrators. Designed to deliver 250 volts at 50 M.A. in conjunction with any standard vibrator. Uniquely type 3 1/2" high; mfg. centers, 2 1/2" x 3 1/2". An excellent low-cost replacement unit for a rapidly growing phase of radio service work.
B11671. YOUR PRICE..... \$1.45

TUBE TESTER PLATE AND FILAMENT TRANSFORMER

Ideal for use in "Build-your-own" test equipment. Also excellent for replacement purposes. Furnishes conventional filament voltages for tube testers: 1.5, 2.0, 2.5, 3.3, 5.0, 6.3, 7.5, 15, 20 and 30 Volts at 2.0 Amps. Also has high voltage winding for supply 250 Volts A.C. at 40 M.A. for plate voltage of tube under test. Size: 2 1/2" high, 4 1/2" wide, 2 1/2" deep; with 3/8" mounting centers.
B11672. List. \$3.50. NET..... \$2.06

KNIGHT FIELD EXCITER POWER TRANSFORMER

This power transformer is designed to deliver 160 volts at 200 M.A. out of a filter, with an 83 or 523 rectifier tube. Will furnish full excitation for field either one or two lamp auto speaker fields in parallel connection. Primary 115 volts 50/60 cycles. Sec. 200 volts at 225 M.A.-C.T. and 5 volts at 4 A. Size, only 2 1/2" x 3 1/2" inches.
B11673. YOUR PRICE..... \$1.75

THORDARSON UNIVERSAL POWER TRANSFORMERS

FULLY SHIELDED UPRIGHTS



A complete line of fully shielded transformers for every purpose. These units meet all requirements for transformers of this type. Only the finest materials are used in their manufacture. Electrically and mechanically sturdy in construction with every detail of their manufacture painstakingly hand-detailed. All list prices are for 110 Volts 60 cycle operation. Other frequencies and voltages are available at extra cost. Please send deposit with order or write for price.

Transf.	DIMENSIONS			MTC HOLES
	H.	W.	D.	
T-70R78	4 1/2"	3 3/4"	2 1/2"	2 1/2" x 2 1/2"
T-70R61	4 1/2"	3 3/4"	2 1/2"	2 1/2" x 2 1/2"
T-56R02	4 1/2"	3 3/4"	2 1/2"	2 1/2" x 2 1/2"
T-56R01	4 1/2"	3 3/4"	2 1/2"	2 1/2" x 2 1/2"
T-56R04	4 1/2"	3 3/4"	2 1/2"	2 1/2" x 2 1/2"
T-70R62	5"	3 3/4"	3 1/2"	3 1/2" x 3 1/2"
T-56R05	5"	3 3/4"	3 1/2"	3 1/2" x 3 1/2"

4 OR 5 TUBES—6.3 VOLTS

Type T-70R78. For 2 or 3—76, 77, 78, 6C5, 6C6, 6F5; 1—42, 6F6; 2—27, 2-71A; 1—80.
SEC.: 680 V., C.T. at 55 M.A.
6.3 V. at 1.5 A.-C.T.

5.0 V. at 2.0 A.-C.T. Shpg. wt. 6 lbs.
B1101G. List. \$4.00. NET..... **\$176**

6 TO 8 TUBES—6.3 VOLTS

Type T-70R61. For 5 or 6—76, 77, 78, 6C5, 6C6, 6F5; 1—42, 6F6; 1—80, 5Z4.
SEC.: 700 V., C.T. at 70 M.A.

6.3 V. at 2.5 A.-C.T.
5.0 V. at 2.0 A.-C.T. Shpg. wt. 6 1/2 lbs.
B1101B. List. \$4.00. NET..... **\$235**

7 TO 11 TUBES—6.3 VOLTS

Type T-56R02. For 5—27, 24, or 9—56, 57; 1—42, 2A5; 1—80, 5Z4.
SEC.: 700 V., C.T. at 70 M.A.

2.5 V. at 9.0 A.-C.T.
2.5 V. at 4.5 A.-C.T.
5.0 V. at 2.0 A.-C.T. Shpg. wt. 7 lbs.
B1101B. List. \$4.50. NET..... **\$250**

10 TUBES—6.3 VOLTS

Type T-56R01. For 5—26; 2—27; 2—71A; 1—80.
SEC.: 850 V., C.T. at 70 M.A.

1.5 V. at 4.0 A.-C.T.
1.5 V. at 3.0 A.-C.T.
2.5 V. at 3.0 A.-C.T.
3.0 V. at 8.5 A.-C.T.
5.0 V. at 2.0 A.-C.T. Shpg. wt. 7 lbs.
B1101B. List. \$4.50. NET..... **\$265**

8 TO 13 TUBES—6.3 VOLTS

Type T-56R04. For 5—21, 27, or 9—56, 57; 2—47, 2A5; 1—80, 83, 5Z3.
SEC.: 700 V., C.T. at 105 M.A.

2.5 V. at 12.0 A.-C.T.
5.0 V. at 3.0 A.-C.T. Shpg. wt. 8 lbs.
B1102D. List. \$5.25. NET..... **\$309**

11 TO 15 TUBES—6.3 VOLTS

Type T-70R62. For 8 to 10—76, 6C6, 6D6, 6C5, 6K7, 6F7; 2—42, 6F5; 1—80, 5Z3, 5Z4.
SEC.: 745 V., C.T. at 145 M.A.

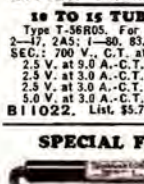
6.3 V. at 4.5 A.-C.T.
5.0 V. at 3.0 A.-C.T. Shpg. wt. 8 lbs.
B1102I. List. \$5.50. NET..... **\$323**

10 TO 15 TUBES—2.5 VOLTS

Type T-56R05. For 7—24, 27, or 12—56, 57; 2—47, 2A5; 1—80, 83, 5Z3.
SEC.: 700 V., C.T. at 110 M.A.

2.5 V. at 9.0 A.-C.T.
2.5 V. at 3.0 A.-C.T.
2.5 V. at 3.0 A.-C.T.
5.0 V. at 3.0 A.-C.T. Shpg. wt. 9 lbs.
B1102J. List. \$5.75. NET..... **\$338**

SPECIAL FREE OFFER



RANDY THORDARSON PROBING LIGHT

An invaluable new trouble light can be yours FREE. Friends of light where you need it. Heavy fountain pen size. Operates from 110 volt line. No batteries. Ideal for the shop or service calls. Completely insulated. 5" long with 6" cord. B1103G. Given FREE with orders for Thordarson units totalling \$5.00 net or more, or sold separately at..... **\$88c**

NEW UNIVERSAL DUPLICATE TRANSFORMERS

ALL-PURPOSE TYPES



A radically new line of transformers designed to meet the requirements of every serviceman and self-builder. One type of case meets all mounting requirements using the special mounting brackets supplied. Priced for the experimenter's purse and the serviceman's profit. Long, flexible color-coded leads. Easy to make neat installations. Secondary connections to meet the requirements of any set. Completely shielded electrostatically and magnetically. Designed for long service. Primaries for 110 Volts, 50-60 cycles.

Transf.	DIMENSIONS			D.
	H.	W.	D.	
T-13R01	3	2 1/2"	2 1/2"	2 1/2"
T-13R02	3	2 1/2"	2 1/2"	2 1/2"
T-13R03	3 1/2"	3 1/2"	3 1/2"	3 1/2"
T-13R04	3 1/2"	3 1/2"	3 1/2"	3 1/2"
T-13R05	3 1/2"	3 1/2"	3 1/2"	3 1/2"
T-13R06	4 1/2"	3 1/2"	3 1/2"	3 1/2"
T-13R07	4 1/2"	3 1/2"	3 1/2"	3 1/2"
T-13R08	4 1/2"	3 1/2"	3 1/2"	3 1/2"

3 OR 4 TUBES—3.5 VOLTS

Type T-13R01. For 1—27, 24, or 2—56, 58; 1—45, 47; 1—80, 5Z3.
SEC.: 650 V., C.T. at 40 M.A.

5.0 V. at 4.0 A.-C.T.
5.0 V. at 3.0 A.-C.T.
B11223. List. \$2.35. NET..... **\$138**

5 TO 7 TUBES—2.5 VOLTS

Type T-13R02. For 3—27, 24, or 5—56, 57, 58; 2—45, 47; 1—80, 5Z3.
SEC.: 700 V., C.T. at 50 M.A.

2.5 V. C.T. at 7.25 A.
5.0 V. C.T. at 3.0 A.
B11224. List. \$3.00. NET..... **\$176**

4 TO 8 TUBES—3.5 VOLTS

Type T-13R03. For 3—27, 24, or 5—56, 57, 58; 2—45, 47; 1—80, 5Z3.
SEC.: 700 V., C.T. at 70 M.A.

2.5 V. C.T. at 9.0 A.
5.0 V. at 3.0 A.
B11225. List. \$3.25. NET..... **\$191**

8 TO 12 TUBES—3.5 VOLTS

Type T-13R04. For 5—27, 24 or 9—56, 58; 2—45, 47; 1—80, 5Z3.
SEC.: 700 V., C.T. at 90 M.A.

2.5 V. C.T. at 12.5 A.
5.0 V. at 3.0 A.
B11226. List. \$4.00. NET..... **\$235**

6 TO 13 TUBES—3.5 VOLTS

Type T-13R05. For 5—27, 24, or 9—56, 58; 2—45, 47; 1—80, 5Z3.
SEC.: 700 V., C.T. at 70 M.A.

2.5 V. C.T. at 9.0 A.
2.5 V. C.T. at 3.5 A.
5.0 V. at 3.0 A.
B11227. List. \$4.00. NET..... **\$235**

10 TO 15 TUBES—3.5 VOLTS

Type T-13R06. For 7—27, 24, or 12—56, 58; 2—45, 47; 1—80, 5Z3.
SEC.: 700 V., C.T. at 120 M.A.

2.5 V. C.T. at 15.5 A.
2.5 V. C.T. at 3.5 A.
5.0 V. at 3.0 A.
B11228. List. \$5.00. NET..... **\$294**

10 TO 15 TUBES—4.5 VOLTS

Type T-13R07. For 8—27, 24, or 15—56, 58; 2—45, 47; 1—80, 5Z3.
SEC.: 800 V., C.T. at 110 M.A.

6.3 V. C.T. at 15.5 A.
2.5 V. C.T. at 3.5 A.
5.0 V. at 3.0 A.
B11229. List. \$5.00. NET..... **\$294**

7 TO 13 TUBES—2.5 and 6.3 VOLTS

Type T-13R08. For 3—24, 27 or 6—56, 58 and 1—42, 6F6 or 6 to 10—76, 6D6, 6I7, etc., and 1—45, 47, 2A5; 1—40, 5Z3.
SEC.: 700 V., C.T. at 90 M.A.

6.3 V. C.T. at 3.5 A.
2.5 V. C.T. at 6.9 A.
5.0 V. at 3.0 A.
B11330. List. \$4.25. NET..... **\$250**

8 TO 14 TUBES—2.5 and 6.3 VOLTS

Type T-13R09. For 3—24, 27 or 6—56, 58 and 1—42, 6F6 or 6 to 10—76, 6D6, 6I7, etc., and 3—45, 47, 2A5; 1—83, 5Z3.
SEC.: 750 V., C.T. at 180 M.A.

6.3 V. C.T. at 3.5 A.
2.5 V. C.T. at 6.0 A.
5.0 V. at 3.0 A.
B11331. List. \$6.00. NET..... **\$353**

REPLACEMENT ENCYCLOPEDIA



A brand new 52-page book that tells you what Thordarson transformer to use for replacement; in almost any set. Enables you to service 95% of the sets listed in Riders A, with the 18 units listed below. They duplicate a line with minimum stock requirements and at the same time service more sets perfectly than any other assortment. This book will show you all this and more. A real service necessity.

B11004. YOUR COST ONLY 15c or send for B11004 Thordarson registration card and get it FREE by returning the card with your next order.

Transf.	DIMENSIONS			D.
	H.	W.	D.	
T-13R00	3 1/2"	2 1/2"	2 1/2"	2 1/2"
T-13R11	3 1/2"	2 1/2"	2 1/2"	2 1/2"
T-13R12	3 1/2"	2 1/2"	2 1/2"	2 1/2"
T-13R13	3 1/2"	2 1/2"	2 1/2"	2 1/2"
T-13R14	3 1/2"	2 1/2"	2 1/2"	2 1/2"
T-13R15	3 1/2"	2 1/2"	2 1/2"	2 1/2"
T-13R16	4 1/2"	3 1/2"	3 1/2"	3 1/2"
T-13R17	4 1/2"	3 1/2"	3 1/2"	3 1/2"
T-13R18	3 1/2"	2 1/2"	2 1/2"	2 1/2"

9 TO 13 TUBES—2.5 and 5.0 VOLTS

Type T-13R00. For 6—24, 27, or 10—56, 58; 2—71A; 1—80, 5Z3.
SEC.: 550 V., C.T. at 70 M.A.

5.0 V. C.T. at 0.5 A.
2.5 V. C.T. at 10.5 A.; 5.0 V. at 3.0 A.
B11232. List. \$3.00. NET..... **\$206**

5 TUBES—6.3 VOLTS

Type T-13R11. For 3—36, 77, 6D6, 6C5; 1—42, 6F6, 4I; 1—80, 5Z3.
SEC.: 650 V., C.T. at 40 M.A.

6.3 V. C.T. at 2.0 A.
5.0 V. at 3.0 A.
B11233. List. \$2.50. NET..... **\$147**

8 TUBES—6.3 VOLTS

Type T-13R12. For 6—36, 77, 6D6, 6F5; 1—42, 6F6, 4I; 1—80, 5Z3.
SEC.: 700 V., C.T. at 70 M.A.

6.3 V. C.T. at 2.5 A.
5.0 V. at 3.0 A.
B11234. List. \$3.00. NET..... **\$176**

6 TUBES—6.3 VOLTS

Type T-13R13. For 6—36, 77, 6D6, 6F5; 2—42, 6F6, 3B; 1—80, 5Z3.
SEC.: 700 V., C.T. at 90 M.A.

6.3 V. C.T. at 3.5 A.
5.0 V. at 3.0 A.
B11250. List. \$3.75. NET..... **\$220**

13 TUBES—6.3 VOLTS

Type T-13R14. For 10—36, 77, 6D6, 6F5; 2—42, 6F6; 1—80, 5Z3.
SEC.: 700 V., C.T. at 120 M.A.

6.3 V. C.T. at 4.7 A.
5.0 V. at 3.0 A.
B11251. List. \$4.25. NET..... **\$250**

14 TO 18 TUBES—6.3 VOLTS

Type T-13R15. For 11 to 13—36, 77, 6D6, 6F5; 2—42, 6F6, or 4—38, 4I; 1—80, 5Z3.
SEC.: 800 V., C.T. at 150 M.A.

6.3 V. C.T. at 5.0 A.
5.0 V. at 3.0 A.
B11252. List. \$5.75. NET..... **\$338**

14 TO 19 TUBES—4.5 VOLTS

Type T-13R16. For 10 to 14—36, 77, 6D6, 6F5; 3—42, 6F6, or 4—38, 4I; 1—80, 5Z3.
SEC.: 800 V., C.T. at 200 M.A.

6.3 V. C.T. at 5.1 A.
5.0 V. at 3.0 A.
B11253. List. \$6.50. NET..... **\$382**

5 TO 10 TUBES—6.3 and 2.5 VOLTS

Type T-13R17. For 3—24, 27 or 6—56, 58 and 1—42, 6F6 or 6 to 10—76, 6D6, 6I7, 2—27 and 1—45, 47, 2A5; 1—80, 5Z3.
SEC.: 600 V., C.T. at 60 M.A.

6.3 V. C.T. at 2.5 A.
2.5 V. C.T. at 7.5 A.
5.0 V. at 3.0 A.
B11254. List. \$3.50. NET..... **\$206**

8 TO 14 TUBES—2.5 and/or 6.3 VOLTS

Type T-13R18. For 3—24, 27 or 6—56, 58 and 2—47, 2A5; or 9—56, 58, up to 6—76, 6D6, 6I7, and 2—42, 6F6; 1—80, 5Z3.
SEC.: 700 V., C.T. at 90 M.A.

6.3 and 2.5 V. at 3.5 A.
2.5 V. C.T. at 9.0 A.; 5.0 V. at 3.0 A.
B11255. List. \$4.50. NET..... **\$265**

STANCOR POWER TRANSFORMERS



LOWER PRICES—BIGGER PROFITS

Precision-built transformers which conform exactly in every respect to original manufacturers' specifications of physical and electrical characteristics. Current ratings are conservative and assure proper operation and long life. Easily and quickly installed. No refitting, or re-drilling is necessary. Through close contact with Stancor, we can supply Exact Duplicate Power Transformers for practically any set. Ask for FREE copy of the Stancor Exact Duplicate Power Transformer Listings, with your next order.



Models	No.	NET
ATWATER KENT		
J. P.	B11501	\$2.79
ATWATER KENT		
37, 37C, 38,	B11502	3.15
55, 55C (late)	B11503	3.76
60 and 60C (early)	B11504	3.56
60 and 60C (late)	B11505	3.82
66 (Plate)	B11506	3.67
LL, L2, H1, H2, P,		
70 series	B11507	3.41
82, 85	B11509	3.41
84	B11510	3.41
87, 89, 89P	B11511	3.70
BREN SWICK		
14, 21, 31, 81, 82,		
S14, S21, S81		
S82, S31	B11512	4.03
10	B11513	2.62
KR Series	B11515	3.18
JNCR, S5NCR	B11516	3.20
CLARION		
AC40	B11513	2.62
AC60	B11518	3.65
AC61, 70	B11519	3.47
AC80, 81, 84, 85,		
120	B11520	2.50
AC90, 90A, 91	B11521	3.79
AC100	B11522	2.29
AC260	B11524	3.18
AC280	B11525	3.59
AC300	B11526	3.59
AC320	B11527	2.15
AC360	B11529	2.68
AC470, AC472	B11530	2.18
AC480	B11531	2.82
COLUMBIA RADIO		
AC5	B11532	2.59
AC7	B11533	2.73
SG8	B11534	5.14
SG9	B11535	4.50
CROSLLEY		
40-S, 41-S, 42-S,		
43-S, 82-S	B11536	3.18
41, 41A, 42, 704B,		
706 Showbox	B11537	3.18
EDISON		
C4, R4, R5, J, SP	B11538	4.53
EVEREADY		
52, 53, 54	B11539	2.88
KNIGHT		
AC5	B11532	2.59
SG8	B11534	5.14
SG9	B11535	4.50
Superhet 7	B11542	2.68
Superhet 9	B11543	6.47
KENNEDY		
10, 20	B11544	3.65
MAJESTIC		
20, 21, 22, 23, (un-		
mounted)	B11550	2.82
51, 52 (unmounted)	B11551	2.60
70 chassis (Plate)	B11552	2.88
70 & 70B chassis		
(Filament)	B11553	2.73
70 chassis (Plate)	B11554	2.97
60B & 100B chassis	B11555	2.73

Models	No.	NET
MAJESTIC (Continued)		
90 & 100 chassis	B11556	\$4.06
130, 131, 132, 233	B11557	4.26
131, 133, 134, 135,		
136 (unmounted)	B11558	2.09
180, 181 (Plate)	B11559	4.38
210, 211, 214, 215,		
(unmounted)	B11561	3.23
290, 291, 293, 294,	B11563	4.12
340, 340B, 344	B11565	4.94
360, 363	B11566	4.70
PHILCO		
20, 220	B11567	3.41
50, 51, 52, 551	B11568	2.47
65	B11569	3.20
70, 270, 370, 470,		
517	B11570	3.12
76	B11571	3.56
77	B11573	3.63
93, 96, 296	B11578	3.82
511	B11581	3.35
19	B11582	3.59
RCA-RADOLFA-VICTOR		
AP736, AZ774B, 10		
51, 10-69, 10-70		
12-15	B11583	5.53
AP736B, 9-16X	B11584	5.50
R04, R07, 9-18X,		
9-54, AP-77C	B11585	10.58
R32, R52, E35,		
E135, E132, RE45,		
RE23, RE154,		
RE136	B11586	4.00
R4, R6	B11587	2.82
R7, R9	B11589	2.85
R7A	B11590	2.85
R11, R11B, RE19, B	B11591	2.94
R11, R21, KA26,		
RE18, RE18A	B11592	3.29
R13, R15, R42, R48,		
R17, R18AC, R33AC,	B11593	3.88
R51AC, R50, 7,		
11, 7-25, 7-26X	B11515	3.18
R44, R46AC, R47,	B11594	3.50
R49, R50	B11595	3.20
R66	B11595	3.82
R80, R82, R86	B11596	3.47
SPARTON		
ACT, 62, 63	B11600	2.47
8A, 410, 600 Series	B11601	3.76
10 (series)	B11602	3.18
99, 109	B11604	4.29
103, 301, 301A, 504		
570, 574, 578,		
740, 750	B11605	4.79
589	B11606	3.85
591, 593, 931	B11607	3.79
U. S. RADIO & TEL.		
8 (series)	B11610	3.18
9, 19	B11611	3.38
10 (series)	B11612	3.56
36, 37 (Apex)	B11613	4.94
7 (series)	B11614	3.09
26 series Glorione	B11616	2.29
26P series Glorione	B11617	2.25
32	B11618	2.97

EXACT DUPLICATE VIBRATOR TRANSFORMERS

For replacing defective vibrator transformers in either home or auto radio sets operating from 6 volt storage batteries or other low-voltage D.C. sources. Conform exactly to the manufacturer's originals both in electrical and physical characteristics. Carefully designed to provide long efficient service.



Models	No.	NET
MOTOROLA		
34	B11210	\$2.35
35, 45	B11211	1.76
50	B11212	1.41
60	B11213	1.76
75	B11214	1.76
80	B11215	1.76
Golden Voice	B11216	2.12
PHILCO		
865, 866, 869	B11217	1.94
816	B11218	1.76
817, 818, 819, 819H	B11219	1.94
RCA-VICTOR		
M101, M104, M108	B11220	1.41
M109	B11221	1.76
5M, 6M, 6M2, 87M,		
67M1, 67M2,		
67M3	B11222	2.47
ZENITH		
5M90, 663, 664	B11245	1.94
6M92	B11247	1.59
7M91D, 7M91S	B11248	1.94
666, 668	B11249	1.41

STANCOR REPLACEMENT TRANSFORMER COILS

Repair those hard-to-get power transformers with the exact duplicate coils listed here. Save time and money and make the old transformer as good as new.



BOSCH		
48	B11620	\$1.76
58, 60	B11621	1.76
CROSLLEY		
124	B11622	1.32
130	B11623	1.43
158	B11624	1.07
HOWARD		
Green Diamond		
(45's)	B11625	1.76
Green Diamond		
(71A's)	B11626	1.62
MAJESTIC		
210, 211, 214, 215	B11627	1.76
44, 49, 194, 440	B11628	1.73
400, 401, 463	B11629	1.18
Treasure Chest	B11630	1.94
STEWART-WARNER		
102A, 202A	B11631	1.47

ATWATER-KENT POWER-PACK FOR MODELS 46, 42, ETC.

An exact duplicate power pack that will replace defective originals with minimum fuss and trouble. For A. K. 40, 40F, 42, 42F, 44, 44F, 45, 52, 56, 57. **\$8.52**

B7102. NET

POWER TRANSFORMERS REBUILT LIKE NEW

SERVICE YOU WILL LIKE

We will rebuild for you any defective power transformer, to exact original specifications. Rewinding is expertly done, quickly and economically. We use the original case and laminations. You will find this service invaluable where exact duplicate transformers are no longer obtainable or hard to get. See the table at right for attractive prices. If your type of power transformer is not listed, write for quotation, stating name and model number of receiver, tube line-up, and other available data. We can help you increase your profits and goodwill with neat, efficient transformer repair jobs.

WE PAY RETURN POSTAGE

DEALER'S PRICE LIST

SETS UP TO	POWER TUBES	YOUR PRICE
8 Tubes	1—71A	\$2.95
8 Tubes	2—71A	3.56
8 Tubes	1—45, or 47	3.95
9 Tubes	2—45, or 47	4.65
10 Tubes	1—50, or 10	5.25
10 Tubes	2—50, or 10	6.50

FOR SETS EQUIPPED WITH GARDON OR KELLOGG TUBES

Up to 9 Tubes, 2—82B Power Tubes, \$4.35
Up to 11 Tubes, 2—50 Power Tubes, 7.10

Prices quoted above are for rebuilding transformers not mounted in wax or pitch. Add \$1.00 to price if in wax or pitch.

For 25 cycle transformers, add \$1.50.

SHIPPING INSTRUCTIONS

For speedy and efficient service, please follow these suggestions.

1. Send in the old transformer by prepaid express or parcel post. Be sure your name and address appear clearly on the package.

2. Send your order in at the same time with first class mail in the usual way, either paid in full or with a 20% deposit. At the same time, you may include your order for other items as desired.

3. Be sure to specify on your order the make and model number of the set, giving the exact tube line-up, and be sure to state line volts, and whether 25 or 60 cycle.

We return rebuilt transformers postage included, wherever in the United States. Take advantage of this additional big saving for added profits.

THORDARSON AMPLIFIER & LINE COUPLING TRANSFORMERS

LATEST COUPLING TRANSFORMERS



FIG. 2-A

FIG. 2-D

FIG. 2-B

FIG. 2-F

FIG. 2-G

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. All units have been carefully designed, and are precision-built.

TUBE TO LINE [LOW LEVEL]

Cat. No.	Type	Figs.	Primary	Secondary	List	NET
B11041	T5A15	2-F	56, 37, 27, 864, 30, etc.	200 or 50 Ohms	\$2.25	\$1.32
B11042	T6A26	2-F	56, 37, 27, 864, 30, etc.	500 or 125 Ohms	2.25	1.32
B11043	T7A11	2-F	P. P. 56, 37, 27, 864, etc.	500 or 125 Ohms	2.50	1.47
B11044	T7A73	2-F	P. P. 56, 37, 27, 864, etc.	200 or 50 Ohms	2.50	1.47

MIXER OR LINE TO TUBE

B11045	T5A16	2-F	200 or 50 Ohms	Single or PP Grids	\$2.75	\$1.62
B11046	T6A72	2-F	50, 100, 150 or 200 Ohms	Single Grid	3.50	2.06
B11047	T6A71	2-F	200, 400, 600 or 800 Ohms	Single Grid	3.50	2.06
B11048	T6A94	2-F	500 or 125 Ohms	Single or PP Grids	3.25	1.91

MIXER OR LINE TO LINE

B11050	T6A96	2-F	500 or 125 Ohms	200 or 50 Ohms	\$3.50	\$2.06
B11051	T6A74	2-F	5000 or 2000 Ohms	200 or 50 Ohms	2.50	1.47

MICROPHONE COUPLING TRANSFORMERS

B11052	T6A73	2-F	D. B. Mike 200-0-200 Ohms	200 or 50 Ohms	\$3.25	\$1.91
B11054	T7A83	2-F	Crystal Mike	200 or 50 Ohms	3.50	2.06
B11055	T5A73	2-F	D. B. Mike 200-0-200 Ohms	Single Grid	2.75	1.32
B11056	T6A37	2-F	D. B. Mike 200-0-200 Ohms	Single Grid	2.25	1.32
B11057	T3A20	2-A	D. B. Mike 200-0-200 Ohms	Single Grid	3.00	1.76
B11058	T2A57	2-A	Single Button Microphone 200 Ohms	Single Grid	2.25	1.32

OUTPUT COUPLING TRANSFORMERS

B11060	T61S25	2-B	Universal, 2A3, 2A5, 45, 47, 50, etc.	500 Ohms	\$3.50	\$2.06
B11061	T61S26	2-B	Universal, PP2A3, 2A5, 45, 47, 50, etc.	500 Ohms	3.50	2.06
B11062	T57S01	2-B	Universal, Single or PP output tubes	1 to 29 Ohms	2.00	1.18
B11063	T67S54	2-F	PP4A3 or 45 Class "AB"	4, 8, 15 or 500 Ohms	4.00	2.35
B11064	T67S48	2-F	PP4A5 Class "A" or 1-53 Class "B"	4, 8, 15 or 500 Ohms	3.50	2.06
B11065	T67S52	2-F	2-53 1P parallel Class "B" or 2-46 or 59 Class "B" or 2-6F6 Class "AB"	4, 8, 15 or 500 Ohms	4.00	2.35
B11066	T67S92	2-F	4-2A3 or 45 PP parallel Class "B"	4, 8, 15 or 500 Ohms	4.00	2.35
B11067	T67S53	2-G	4-46 or 59 PP parallel Class "B"	4, 8, 15 or 500 Ohms	4.00	2.35
B11068	T67S51	2-F	PP Pentodes, 79 Class "B" or 2-10 Class "A"	4, 8, 15 or 500 Ohms	6.50	3.82
B11071	T6S94	2-F	PP50 Class "A", 2A5 or 42 Class "AB", or 2-79 Class "B"	4, 8, 15 or 500 Ohms	4.00	2.35
B11072	T7S75	2-F	PP6B5, 2B6, 6A6, 6N7, 6P6, PP6L1, Class "AB2"	4, 8, 15 or 500 Ohms	4.00	2.35
B11073	T8A558	2-G	PP6L1, Class "AB1"	4, 8, 15 or 500 Ohms	6.00	3.50
B11074	T8S75	2-F	PP6L6, Class "A"	4, 8, 15 or 500 Ohms	3.75	2.20
B11075	T8S9568	2-G	PP 1ar, 6L6 Class "AB"	50-1250 250-333-500 Ohms	6.00	3.50
B11074	T67S60	2-F	1-19 or PP30, 49 Class "B"	4, 8 or 2000 Ohms	2.50	1.47

LINE TO SPEAKER

B11075	T60S48	2-G	500 Ohms	Universal Voice Coils	\$3.00	\$1.76
B11076	T3S81	2-D	500 or 250 Ohms	4, 8 or 15 Ohms	4.50	2.65

CLASS "B" AND "AB" INPUTS

B11078	T67D50	2-F	1-89 Class "A"	1-79 or 53 Class "B"	\$2.75	\$1.62
B11079	T67D59	2-F	1-89 Class "A"	2-79 parallel Class "B"	3.00	1.91
B11080	T67D47	2-F	1-53 (plates in parallel)	1-53 Class "B"	2.75	1.62
B11081	T67D78	2-F	1-46 or 59 Class "A"	2-46 or 59 Class "B"	2.50	2.06
B11082	T60L98	2-D	2-46 or 59 PP Class "A"	4-16 or 59 push-pull parallel Class "B"	5.25	3.09
B11083	T6S7D8	2-F	1-2A5 or 42 Triode	PP 2A5's or 42's Class "AB"	4.00	2.35
B11084	T72J01	2-F	PP 56's, etc.	PP 45's Class "AB"	3.75	2.20
B11085	T81D42	2-F	6P6 Triode	PP 6F6 Class "AB"	3.50	2.06
B11086	T84D59	2-F	PP 6C5, 37, 76, etc.	PP 6L6 Class "AB"	3.50	2.06

MODULATION TRANSFORMERS

B11087	T64M26	2-D	2-46 or 59 Class "B" or 2-50 Class "AB"	5,000 or 10,000 Ohms (100 MA)	\$6.00	\$3.53
B11089	T67M59	2-F	1-53, 6A6, R3K34 Class "B"	3,000 Ohms (100 MA)	3.00	1.76

TRANSCEIVER AUDIOS

B11090	T54D63	2-F	1-30 or 49 Class "A"	1-19 or 249's Class "B"	\$2.50	\$1.47
B11091	T67M169	2-F	1-19 Class "B"	2,700 Ohms (50 MA)	2.75	1.62
B11074	T67S60	2-F	1-19 or PP30 Class "B"	4, 8 or 2000 Ohms	2.50	1.47
B11092	T68S06	2-F	Single Pentode	10 or 200 Ohms	2.50	1.47
B11094	T72S58	2-B	Single Pentode	High or Low Impedance Phones	1.65	.97
B11095	T72A59	2-B	Single Plate and Single Button Microphone	Single Grid	1.65	.97

TRANSFORMERS FOR NEW 6L6 TUBES

B11100, T84P50, Plate Transformer, Fig. 2-G. Specially designed to supply plate and screen voltages to 6L6's. Primary, 115 volts 60 cycle; secondary, 400 volts, 250 M.A., and 200 volts, 50 M.A. With bias tap at 50 volts. 5/35, 4/36, 3/40, 2/45. Shpg. wt., 14 lbs. **\$4.56**

B11073, T84S58, Output Transformer, Fig. 2-G. For coupling push-pull Class AB 6L6's to 4, 8 or 15 ohm voice coil or 500 ohm line. Measures 3/43, 3/42, 3/41. Shpg. wt., 8 lbs. **\$3.53**

B11086, T84D59, Driver Transformer, Fig. 2-F. For coupling PP 6C5's, 76's, etc. to PP 6L6's Class AB. Ratio of primary to 1st secondary is 5 to 1. Split secondary 1st. Measures 3/27, 3/26, 3/25. Shpg. wt., 3 lbs. **\$2.06**

B11103, T84M70, Modulation Transformer, Fig. 2-D. For coupling PP 6L6's Class AB to 2500 ohm modulation load at 250 M.A., 5000 ohms at 200 M.A. or 7500 ohms at 150 M.A. Measures 6/14 4/3, 5/4. Shpg. wt., 15 lbs. **\$5.88**

B11104, T79F84, Filament Transformer, Fig. 2-G. Primary winding for 15 Volts 60 cycle A.C. has secondaries for 6.3 Volts, 3 Amp. C.T.; 5 Volts, 3 Amp.; and 2 1/2 Volts, 3 1/2 Amp. C.T. 1/3, 2/3, 3/3, 4/3. Shpg. wt., 6 lbs. **\$2.79**

18 WATT AMPLIFIER KIT



Build your own high-quality high-gain amplifier around this new, superior Thordarson 18 Watt Class AB circuit. Complete kit offered below has all components matched. Easy to build, superior in operation. Universal input for any microphone; and single tap for 4 speakers; built-in pre-amplifier; built-in microphone current supply, etc. Use 2-6J7, 2 6X5, 2-6F6 Class AB, 1-82 and 1-8S. Will deliver full 18 watts with unexcelled tone quality.

FOUNDATION UNIT T7S818-M

Consists of separate amplifier and power supply bases, with sockets mounted and all other necessary holes drilled; also includes 1-sub-assembly base; resistor mounting strips; input and output terminal strips, and complete diagrams and instructions. **\$3.53**

B1118, YOUR PRICE

B1111	Type	Description	NET
B1111	T7R28	Power Transf.	\$3.82
B1112	T7C28	Power Choke	2.20
B1113	T7A20	Filter Choke	2.08
B1114	T7A33	Input Impedance	2.04
B1116	T7D32	P.P. Input	2.06
B1118	T7B32	Choke	1.03
B1119	T7C32	Choke	1.03
B1117	T7S49	Choke	2.88
B11072	T7S575	Output Transf.	3.36

COMPLETE ESSENTIAL KIT

B1119, Consists of all necessary transformers (power chokes for 4 speakers) for building the Thordarson T7S818-M 18 Watt High Gain Metal Tube Amplifier. **\$16.16**

YOUR PRICE

COMPLETE PARTS KIT

B11120, All resistors, volume and tone controls, condensers, switches, dial plates, hardware, etc., required for completing the Thordarson 18 Watt Amplifier. Does not include above Essentials Kit. Foundation Unit, Tubes or Speaker. SEND FOR DETAILED FREE PARTS LIST AND DESCRIPTION. **\$12.25**

YOUR PRICE

THORDARSON SOUND MANUAL

New edition. Contains valuable information on the new metal tube amplifier, power circuit, covers pre-amplifiers, mixers, etc. **9c**

AUDIOS-OUTPUTS-CHOKES



THORDARON TRANSFORMERS
 Dependable audio units assuring good reproduction at attractive low prices. Universally adaptable for service replacement work.

STRAIGHT AUDIO TRANSFORMERS

Cat. No.	Type	Fig.	Ratio	Size	List	NET
B11121	T47A25	2-C	3:1	2 1/2"x2 1/2"	\$1.75	\$1.03
B11122	T29A39	2-B	3:1	2 1/2"x2 1/2"	1.75	1.03
B11123	T57A36	2-F	3:1	2 1/2"x2 1/2"	2.00	1.18
B11124	T57A37	2-B	3:1	3 1/2"x2 1/2"	2.50	1.47
B11125	T57A38	2-F	3:1	3 1/2"x2 1/2"	2.75	1.62
B11126	T29A56	2-A	3:1	3 1/2"x2 1/2"	3.00	1.76
B11127	T75A74*	2-F	2:1	2 1/2"x2 1/2"	2.50	1.47

*Has standard fields between primary and secondary.

PUSH-PULL INPUTS

Cat. No.	Type	Fig.	Ratio	Size	List	NET
B11128	T14A29	2-C	3:1	2 1/2"x2 1/2"	\$2.25	\$1.32
B11129	T13A31	2-B	3:1	2 1/2"x2 1/2"	2.00	1.18
B11130	T57A39	2-F	3:1	2 1/2"x2 1/2"	2.25	1.32
B11131	T57A40	2-B	3:1	3 1/2"x2 1/2"	2.75	1.62
B11132	T57A41	2-F	3:1	3 1/2"x2 1/2"	3.00	1.76
B11133	T57A42*	2-B	3:1	3 1/2"x2 1/2"	3.25	1.91
B11134	T57A43*	2-F	3:1	3 1/2"x2 1/2"	3.50	2.06
B11135	T47A34	2-A	3:1	2 1/2"x2 1/2"	3.25	1.91

*Specially designed primary for power detector.

PUSH-PULL INTERSTAGE

Cat. No.	Type	Fig.	Ratio	Size	List	NET
B11137	T58A78*	2-F	1.5:1	3 1/2"x2 1/2"	\$3.25	\$1.91
B11138	T67A31*	2-B	1.5:1	3 1/2"x2 1/2"	3.00	1.76

*May be used in Class "AB" Amplifiers where some grid current flows.

OUTPUT TRANSFORMERS

FOR 1 TO 25 OHM VOICE COILS

Cat. No.	Type	Fig.	Primary	Size	List	NET
B11062	T57561	2-B	Universal for single or P.F. Tubes.	2 1/2"x2 1/2"	\$2.00	\$1.18

FOR 6 TO 12 OHM VOICE COILS

Cat. No.	Type	Fig.	Primary	Size	List	NET
B11140	T13591	2-B	PP45, 45 ohms	2 1/2"x2 1/2"	\$1.50	\$0.88

FOR 4 & 8 1/2 OHM VOICE COIL AND 500 OHM LINE

Cat. No.	Type	Fig.	Primary	Size	List	NET
B11064	T67548	2-F	PP45, Class "A" or 1-33"	3 1/2"x2 1/2"	\$3.50	\$2.06
B11063	T67554	2-F	PP2A3, "AB"	3 1/2"x2 1/2"	4.00	2.35
B11065	T67552	2-F	2-33" PP parallel Class "B" or 2-60 or 59 "B"	3 1/2"x2 1/2"	4.00	2.35

PUSH-PULL OUTPUT CHOKES

Cat. No.	Type	Fig.	MA	Henries	Size	List	NET
B11144	T14C19	2-C	40	285	2 1/2"x2 1/2"x1 1/2"	\$2.00	\$1.18

PLATE COUPLING CHOKES

Cat. No.	Type	Fig.	MA	Henries	Size	List	NET
B11145	T29C27	2-B	5*	1080	2 1/2"x2 1/2"	\$1.50	\$0.88
B11146	T52C38	2-F	5*	1060	2 1/2"x2 1/2"	1.75	1.03
B11147	T73C36	2-F	5*	510	2 1/2"x2 1/2"	2.25	1.32
B11148	T67C46	2-B	5*	510	2 1/2"x2 1/2"	2.00	1.18
B11143	T68C68	2-F	35	22	2 1/2"x2 1/2"	2.00	1.18

*For use as plate inductance with S. G. tubes. Max. Cap. 5 ma.

FILTER CHOKES

Cat. No.	Type	Fig.	Hys.	MA	Ohms	Size	List	NET
B11116	T13C32	2-B	22	35	405	2 1/2"x2 1/2"	\$1.75	\$1.03
B11119	T47C87	2-B	12	75	290	2 1/2"x2 1/2"	1.75	1.03
B11117	T57C77	2-B	15	20	200	2 1/2"x2 1/2"	2.00	1.18
B11115	T57C53	2-B	9.5	110	200	2 1/2"x2 1/2"	2.00	1.18
B11118	T57C54	2-F	9.5	110	200	2 1/2"x2 1/2"	2.25	1.32
B11114	T13C98	2-F	12	130	231	2 1/2"x2 1/2"	2.75	1.62
B11113	T17C94	2-F	12	130	231	3 1/2"x3 1/2"	3.00	1.76

KNIGHT AC-DC CHOKES

May be used in any 4 or 5 tube midset set. Semi-shielded type with black enameled channel frame. Horizontal mounting, 6" integrated leads. Size, 1 1/2" high, 2 1/2" long, 1 1/2" deep. Mated centers, 25:1*.

No.	Ohms	NET	No.	Ohms	NET
B11635	200	\$0.38	B11638	400	\$0.38
B11636	250	0.40	B11639	450	0.37
B11637	300	0.43	B11641	500	0.37
B11638	350	0.47	B11642	550	0.38

SHIELDED MICROPHONE TRANSFORMERS

BS650. Single button coupler transformer. Turn ratio, 1 to 64; impedance ratio, 1 to 4000. For single button carbon mike to tube input. Fully shielded.

BS651. Two button type. To couple any double button carbon microphones to single grid. Turn ratio, 1 to 45; impedance ratio, 1 to 2000.

NET EACH \$1.32

KNIGHT TRANSFORMERS

UNIVERSAL AUDIO

A compact, high quality audio transformer for use in any A.C. or battery set or amplifier. Has Universal mounting bracket. Ratio 3-1. Size, 2 1/2"x2 1/2". Shpg. wt. 2 lbs. **B11644. YOUR PRICE..... 75c**

UNIVERSAL OUTPUT

This transformer couples practically any power tubes, either single or push-pull, to any dynamic or magnetic speaker. Has Universal mounting bracket. Size, 2 1/2"x2 1/2". With instructions. Shpg. wt. 2 lbs. **B11645. YOUR PRICE..... 75c**



UNIVERSAL PUSH-PULL INPUT

May be used to couple any single plate or any combination of single or push-pull tubes. Universal mounting bracket. Size, 2 1/2"x2 1/2". Shpg. wt., 2 lbs. **B11646. YOUR PRICE..... 78c**

STANDARD AUDIOS

Ideally suited for replacement purposes. Open type construction as illustrated. 3 1/2"x3 1/2". Mfg. centers, 25". Shpg. wt., 2 lbs. **B11647. 3/2-1. Straight audio, 1 plate to 1 grid. B11649. 3-1. Push-pull interstage. 2 plates to 2 grids. NET EACH..... 75c**



HEAVY-DUTY UNIVERSAL OUTPUT

A heavy-duty, unshielded output transformer for universal application. Will accurately match any single or push-pull output stage to any speaker voice coil. Strap mounting. Size, 2 1/2"x2 1/2". **B11005. YOUR PRICE..... 95c**

FILTER CHOKES

Open type construction, with leads. Size 1 1/2"x2"x2 1/2". **B11650.** 25 henries at 25 MA. 350 ohms DC resistance. **YOUR PRICE..... 83c**

B11651. 25 henries at 60 MA. 325 ohms DC resistance. **YOUR PRICE..... 65c**

B11652. 20 henries at 80 MA. 200 ohms DC resistance. **YOUR PRICE..... 85c**

B11653. 20 henries at 150 M.A. 85 ohms DC resistance. **YOUR PRICE..... 94c**

B11654. 750 henries at 5 MA. 3500 ohms DC resistance. **Plate coupling choke for sterco grid detector tube. Has high impedance at audio frequencies. YOUR PRICE..... 94c**

MICROPHONE TRANSFORMER

Suitable for single or double button microphones. Tapped primary. Open frame type. Size, 1 1/2"x1 1/2"x2". Mfg. cent., 25". **B11655. YOUR PRICE..... 68c**

SPECIAL AUDIO TRANSFORMERS

Ideal boys. Well-built and substantial. Open frames. **B11656.** 3 to 1 audio. 1 1/2"x1 1/2"x2". Mfg. Cent., 2 1/2". **YOUR PRICE..... 78c**

B11657. Push-pull input. Open frame type. 1 1/2"x1 1/2"x2". Mfg. Centers, 2 1/2". **YOUR PRICE..... 65c**

OUTPUT TRANSFORMERS

To feed into 8 to 15 ohm voice coil. Open frame. **B11658.** Single 45, 43, 48, 59, 71A. 1 1/2"x2 1/2"x1 1/2". NET. **YOUR PRICE..... 59c**

B11659. Single 47, 2A5, 49, 42, 33. Size, 1 1/2"x2 1/2"x1 1/2". **YOUR PRICE..... 65c**

B11660. Push-pull 45, 43, 48, 59, 71A. Size, 2"x1 1/2"x2 1/2". **YOUR PRICE..... 69c**

B11661. Push-pull 47, 2A5, 49, 42, 33. 1 1/2"x2 1/2"x1 1/2". **YOUR PRICE..... 69c**

STANCOR OUTPUT TRANSFORMERS

These scientifically designed output transformers are substantially built, using only the highest quality materials. For operation direct from plates of either single or push-pull power tubes into 8 to 10 ohm voice coil of dynamic speakers.



SINGLE

B11663. A2203. 43, 45, 48, 59, 71A tubes. Size 2 1/2"x2 1/2". Mfg. centers 2", 1 lb. **65c**

PUSH-PULL

B11667. A2220. PP43, 45, 48, 59, 71A tubes. Size 2 1/2"x2 1/2". Mfg. centers 2", 1 lb. **71c**

B11664. A2200. 43, 45, 48, 59, 71A tubes. Size 2 1/2"x2 1/2". Mfg. centers 2 1/2". **82c**

B11668. A2201. PP43, 45, 48, 59, 71A tubes. Size 2 1/2"x2 1/2". Mfg. centers 2 1/2". **88c**

B11665. A2227. 31, 41, 10, 12 tubes. Size and mfg. as above. Wt., 1 lb. **82c**

B11669. A2231. PP31, 41, 10, 12 tubes. Size and mounting as above. Wt. 2 lbs. **88c**

B11666. A2313. 33, 42, 47, 49, 2A5 tubes. Size and mfg. as above. Wt., 2 lbs. **82c**

B11670. A2312. PP33, 42, 47, 49, 2A5 tubes. Size and mounting as above. Wt., 2 lbs. **88c**

THORDARSON TRANSFORMERS JEFFERSON



THORDARSON TRU-FIDELITY TRANSFORMERS

The sensational new design of these transformers finally makes possible the realization of really True Fidelity. These Thordarson transformers are completely shielded from external fields and electrostatically shielded between primary and secondary. Single hole mounting permits over or under chassis mounting. Leads may be taken from top or bottom as required. Equally adaptable for replacement in laboratory use, or for original installations. Size, 2 1/2" x 3 1/2" x 3 1/2". Wt., 1/4 lbs. (Indicates castable type with infinite balance to center tap, top use on balanced transmission line.)

Line or Mike to Single Grid
Type T-90A00. For coupling a line, microphone or mixer into the grid of any tube. Primary impedances, 500^Ω-333-250-200^Ω-125 and 50 ohms. Secondary impedances, 75,000 and 15,750 ohms. **B11170. NET...\$8.53**

Line or Mike to P.P. Grids
Type T-90A11. For coupling a line or microphone to the grids of push-pull tubes; Primary impedances, same as T-90A00 above. Secondary Imp. 150,000 and 77,500 ohms. **B11171. NET...\$10.88**

Line or Mike to Line
Type T-90A10. Primary impedances 500^Ω-333-250-200^Ω-125 and 50 ohms. Secondary impedance, 500^Ω-250-200^Ω-125 and 50 ohms. **B11172. NET...\$7.35**

Crystal Mike or Photo Cell to Line
Type T-90A06. Special high impedance primary; Secondary impedances, 500^Ω-333-250-200^Ω-125 and 50 ohms. **B11173. NET...\$9.11**

Audio Reactor
Type T-90C03. For parallel feed circuits, etc. Has inductance 300 henries at 5 M.A. D.C., or 75 henries at 16 M.A. D.C. **B11182. NET...\$5.88**

P.P. Plates to P.P. Grids
Type T-90A05. For applications which call for coupling push-pull triode type tubes into push-pull output tubes. Primary impedances, 20,000 and 5,000 ohms. Secondary, 45,000 and 11,250 ohms. **B11178. NET...\$7.35**

Single Plate to Single Grid
Type T-90A83. Intended for coupling a single triode type tube to another single tube in cascade order. Primary impedances 10,000 and 2,500 ohms. Sec., 40,000 and 10,000 ohms. **B11176. NET...\$5.88**

Single Plate to P.P. Grids
Type T-90A04. As above, but with Sec. of 10,000 and 40,000 ohms. **B11177. NET...\$6.76**

Line to Voice Coil
Type T-90C01. Line to voice coil of dynamic speakers. Primary impedances, 500^Ω-333-250-200^Ω-125 and 50 ohms. Sec., 1.25-3.75-5.75-10 and 15 ohms. **B11181. NET...\$8.53**

P.P. Power Tubes to Line
Type T-90S07. Primary 5,000-3,000-1,250 and 750 ohms. Secondary 500^Ω-333-250-200^Ω-125 and 50 ohms. **B11179. NET...\$8.53**

P.P. Tubes to V. Coil
Type T-90S08. Similar to T-90S07, but has secondary 1.25-3.75-5.75-10 and 15 ohms. **B11180. NET...\$8.53**

Single Tube to Line
Type T-90A02. For coupling single triodes 864, 6C5, 6J7, etc. to a line or mixer. Primary impedances, 20,000 and 5,000 ohms. Secondary impedances, 500^Ω-333-250-200^Ω-125 and 50 ohms. **B11174. NET...\$8.53**

P.P. Tubes to Line
Type T-90A01. P.P. triodes to line. Primary impedances, 20,000 and 5,000 ohms. Secondary impedances, 500^Ω-333-250-200^Ω-125 and 50 ohms. **B11175. NET...\$8.53**

UNIVERSAL AUDIO REPLACEMENT TRANSFORMER

A small compact audio unit for use in any AC or DC set. Core of high grade silicon steel with accurate machine-wound coil. True Jefferson quality. Furnished with two sets of brackets for horizontal or vertical mounting. Low height makes it suitable for sub-base mounting. Ratio, 2 to 1. Popular for ser-building and replacement purposes. Size, 1 1/2" x 2 1/2" x 2 1/2". With flexible leads. Slugs, wt. 2 lbs. **B6025. Type 467-164. List. \$1.25. YOUR PRICE.....**



73c

NEW JEFFERSON STAR SEALED TRANSFORMERS

Outstanding values in high quality transformers for use in any set or amplifier, A.C. or D.C. Machine-wound coils for accuracy and durability. Laminated core of high silicon steel. Assembled in black enameled sheet steel cases with nickel-plated binding posts. Windings completely shielded and clearly marked. Size, 2 1/2" x 2 1/2" x 1 1/2". Min. centers 2 1/2". Slugs, wt. 2 lbs. each.



B6030. 467-113. 3 to 1.
B6031. 467-116. 5 to 1.
List. \$2.25.
YOUR PRICE.....\$1.32

B6032. 467-117. Push-pull input. (Long side).
B6033. 467-118. Push-pull input. (Short side).
List. \$2.25.
YOUR PRICE.....\$1.47

MICROPHONE TRANSFORMERS

Microphone to grid. Single-button types have turn ratio of 1 to 4; double-button type 1 to 16. Flat response, 30-7000 cycles. These are low-cost high quality units.



B6036. 467-413. Single Button; strap mounting. 2 x 3 1/2 x 1 1/2". Slugs, wt. 1 1/2 lbs. List. \$2.25. YOUR PRICE.....\$1.94c

B6037. 467-414. Double Button; strap mounting. 2 x 3 1/2 x 1 1/2". Slugs, wt. 1 1/2 lbs. List. \$2.25. YOUR PRICE.....\$1.03

B6034. 467-261. Single Button. Shielded type. 2 1/2 x 1 1/2". Slugs, wt. 1 1/2 lbs. List. \$2.25. YOUR PRICE.....\$1.32

LINE TO VOICE COIL OUTPUT TRANSFORMER

A high-quality heavy-duty transformer capable of handling up to 12 watts continuously; ideal for P.A. installations. Several of these transformers may be connected in various series or parallel arrangements for coupling a number of speakers to a 500 ohm line. Primary impedances to 1000 ohms, with taps at 500 and 250 ohms, for matching almost any line. Secondary is 1, 2, 4, 8 and 15 ohms. Size, 4 1/2" x 2 1/2". Wt., 3 lbs.

B6135. Type 467-438. List. \$3.00. YOUR PRICE.....

\$1.76

NEW JEFFERSON PLASTIC-SEALED TRANSFORMERS

A completely new line of transformers, hermetically sealed with a plastic coating. This coating has a high melting point, is moisture-proof, permanently adheres to and seals all exposed surfaces and assures positive protection from adverse climatic conditions. The very last word in transformer design and construction. Absolutely dependable units.



ABSOLUTELY MOISTURE-PROOF

The delicate windings are completely protected against hydrolysis or deterioration, assuring peak performance from the transformers at all times. Each unit is carefully made to meet the highest standards of transformer construction. The coils are precision-made, machine-wound, vacuum-dried and impregnated; cores of laminated silicon steel, annealed after stamping. The ideal transformer where consistent dependable performance is desired.

AUDIO TRANSFORMERS
No. Type Ratio Size NET
B6155 467-501 1 to 2 2 1/2" x 1 1/2" x 1 1/2" \$0.91
B6156 467-503 1 to 3 3 1/2" x 1 1/2" x 1 1/2" 1.06

P. P. INPUT TRANSFORMERS
B6157 467-502 1 to 2 2 1/2" x 1 1/2" x 1 1/2" 1.00
B6158 467-504 1 to 3 3 1/2" x 1 1/2" x 1 1/2" 1.15

OUTPUT TRANSFORMERS

For single or P. P. 71A, 45, 33, 42, 47, etc. Have 1000 ohm primaries.
No. Type Watts Secondary Size NET
B6159 467-502 2 to 4 to 6 ohms 2 1/2" x 1 1/2" x 1 1/2" .79
B6160 467-510 3 1/2 to 8 to 8 ohms 3 1/2" x 1 1/2" x 1 1/2" .94

CHOKES

B6161 466-500 20 Ht. at 50 M.A. 425 Ohms 3 1/2" x 1 1/2" x 1 1/2" .88
B6162 466-540 250 Ht. at 10 M.A. 5000 Ohms 2 1/2" x 2 1/2" x 1 1/2" .76

THORDARSON "C.H.T." SERIES AUDIO COUPLING TRANSFORMERS



An entirely new line of transformers filling the gap between laboratory grade units and servicemen's replacements. Their response curve meets all requirements for wide-range reproduction. Many advanced electrical and mechanical features take the C.H.T. line out of all competition in its price field. Balanced and unbalanced terminals. Sub-panel terminals make wiring easy. Complete impregnation eliminates moisture problems. Ideal for use in high-grade receivers, transmitters, and portable public address systems. Size, 2 1/2" x 2 1/2" x 1 1/2".

LOW IMPEDANCE SOURCE TO GRID				
No.	Type	Pri. Ohms	Sec. Ohms	NET
B11027	T-15A66	500, 333, 250	60,000/15,000	
		250, 125, 50	Single Grid	\$4.26
B11028	T-15A67	500, 333, 250	120,000/30,000	
		250, 125, 50	P.P. Grids	4.70
B11029	T-15A68	60, 38, 30, 22	60,000/15,000	
		15, 10, 5.5, 2.5	Single Grid.	4.26

LOW IMPEDANCE SOURCE TO LINE OR MIXER				
No.	Type	Pri. Ohms	Sec. Ohms	NET
B11030	T-15A69	500, 333, 250	500, 333, 250	
		250, 125, 50	200, 125, 50	3.67
B11031	T-15A70	500, 333, 250	500, 333, 250	
		15, 10, 5.5, 2.5	200, 125, 50	3.67

TUBE TO LINE [LOW LEVEL]				
No.	Type	Primary	Secondary	NET
B11032	T-15A71	20,000/5,000	500, 333, 250	
		Single Plate	200, 125, 50	4.26
B11033	T-15A72	20,000/5,000	500, 333, 250	
		P.P. Plate	200, 125, 50	4.26

INTERSTAGE COUPLING TRANSFORMERS [Class A]				
No.	Type	Primary	Secondary	NET
B11034	T-15A73	10,000/2,500	40,000/10,000	
		Single Plate	Single Grid.	2.94
B11035	T-15A74	10,000/2,500	40,000/10,000	
		P.P. Plate	P.P. Grids.	3.38
B11036	T-15A75	20,000/5,000	45,000/11,250	
		P.P. Plates	P.P. Grids.	3.67



UNIVERSAL
MICROPHONE INPUT



CALIBRATED OUTPUT INDICATOR



3 CHANNEL MIXER

Knight

INTEGRATED

SOUND SYSTEMS



WITH *Exclusive Features*

MODERN DESIGN



GIANT 12"
SPEAKERS



EASY TO SET UP AND OPERATE



Knight INTEGRATED SOUND SYSTEMS



BUY P.A. ON *Easy Terms*

UNIT-MATCHED

EVERY Knight Integrated Sound System represents maximum value for your dollar—reflected by perfectly matched components in constant dependability, higher quality and finer performance and tone.

ON the following pages you will find new **Knight Integrated Sound Equipment** to cover practically every Sound need; our answer to the constantly-growing demand for the high quality **Knight** line of Public Address Equipment.

NEW features perfected in the World's greatest Sound Laboratories, combined with precision-matched component units, give you extra value.

NEW low prices, the result of large volume production, bring you greater savings. Never before has your P. A. dollar been able to buy so much value.

HONEST conservative ratings, and careful assembling and testing before shipment afford fullest protection; our Helpful Consulting Service saves you time, trouble and money by recommending dependable and proper equipment for every requirement.

OUR liberal guarantee is your assurance of constant satisfaction. For these reasons it will pay you to do your Sound buying at **ALLIED—Sound Headquarters.**

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 \$75.00 or more. You can buy the smaller systems, too, on **Easy Terms**, by including additional equipment which will build your order up to \$75.00 or more. You can have your choice of six months or nine months to pay. You pay approximately 20% down, and the balance in convenient monthly payments. See table at right for liberal time payment terms and attractive low carrying charges. Select the **Knight Public Address Equipment** you want now, and write to us for full details of our liberal and convenient **Time Payment Plan**. Dealers, Service Men and Sound Specialists everywhere are voicing enthusiastic approval of our **Time Payment Plan**.

Unit Balance	TABLE OF TERMS			
	6 MONTHS		9 MONTHS	
	Amt. of Month	Amt. of Cost	Amt. of Month	Amt. of Cost
\$ 60	\$10.70	\$64.20	\$ 7.31	\$65.79
70	12.42	74.52	8.46	76.14
80	14.15	84.90	9.61	86.49
90	15.87	95.22	10.77	96.93
100	17.59	105.54	11.92	107.28
120	21.03	126.18	14.23	128.07
140	24.47	146.82	16.53	148.77
160	27.91	167.46	18.84	169.56
180	31.36	188.16	21.14	190.26
200	34.80	208.90	23.45	211.05

Write us for Terms on Orders over \$200.



Sound Specialists

Sound experts supervise the assembling, testing and shipping of every **Knight Sound System**. Our Sound Engineers have collaborated with industrial organizations, architects, and educators in designing specialized sound equipment for schools, industry, hospitals, prisons, etc. Final, exhaustive tests for maximum safety and operating performance are given each **Knight Sound System** in our modern laboratories before shipment. Only Sound Specialists can assure you of such care and skill in meeting your Sound requirements. That is why Public Address purchasers everywhere depend on **ALLIED** for the finest in Sound Equipment.

FREE CONSULTING SERVICE

We invite you to submit your Public Address problems to our Sound Engineers for authoritative aid and proper recommendations, without any obligation on your part. Our vast experience in selecting Sound Equipment for individual requirements is reflected in the many highly successful installations made by thousands of our customers in all parts of the world. Whether you make your inquiry by mail or whether you visit our Sound Studios personally, the experience and knowledge of our Sound Engineers are always at your disposal. It will pay you to take advantage of our Consulting Service when modernizing old systems or planning new installations.

HOW TO ORDER P. A. EQUIPMENT

We can supply Sound Equipment for every conceivable need and purpose. The standard **Knight Systems** listed on the following pages will cover most requirements. If, however, you are unable to decide upon the exact type of equipment you will need, our Engineers will be glad to advise you. We ask only that you supply us with the following information: (1) Tell us the purpose for which you require the equipment; for example, whether for church, school, ballroom, orchestra, etc.; (2) State whether you desire permanent or portable equipment; (3) Advise what current you have available; (4) If possible, supply us with a rough sketch indicating all important dimensions of area to be covered. (Installations may submit blueprints which will be safely returned); (5) Indicate any special preferences you may have in regard to microphones, speakers, etc. State your requirements as clearly and completely as possible so that we can help you select the proper equipment promptly.

Guarantee

All **Knight Sound Systems** are manufactured under license arrangements with **Electrical Research Products, Inc.**, subsidiary of **Western Electric Co., Inc.**, Radio Corporation of America.

Every **Knight Amplifier** is honestly and conservatively rated at its normal continuous output. Every **Knight Amplifier** is designed so that its tubes operate at proper working voltages. Every component used in **Knight Sound Systems** is perfectly matched, and of the finest quality available for P. A. service, to assure maximum power, finest fidelity and steady performance.

Every **Knight Sound System** conforms, further, 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

THERE IS A *Knight* P.A. SYSTEM FOR *Every Purpose*



Knight 8 WATT STANDARD "Little Giant" SOUND SYSTEM



FULL 8 WATTS OUTPUT

A newly designed low-cost sound system ideally suited for small installations where limited coverage is desired. Comes complete, ready to set up quickly and easily. Has many distinct advantages in compactness and completeness; no external batteries or mixers are required; microphone transformer and current supply are built-in. Output is full eight watts with remarkably true tonal fidelity. The complete Knight 8 Watt Integrated System has essentially uniform frequency response from 80 to 5000 cycles. A variable Tone Control is provided to accentuate bass or treble as desired and to compensate for varying acoustical conditions. Each system is carefully tested in our laboratory before shipment.

METAL TUBES. The newest type metal tubes are used to the fullest advantage in the Knight 8 Watt System. A 6J7 voltage amplifier tube and a 6L6 Beam Power Output tube provide a gain of 69 db., with full 8 watts power output. A 5Z4 metal tube is used as rectifier. The use of the new 6L6 Beam Power Amplifier tube keeps distortion at a minimum assuring ample output with fine fidelity. Hum level is exceptionally low. Draws only 56 watts from 110 volt A.C. line. Field current for the dynamic speaker is supplied by the amplifier.

BUILT-IN MIXER. The Knight 8 Watt Sound System is supplied with a high-grade double-button carbon microphone. A twin tip-jack is provided for plugging in high impedance phono pickup. Separate volume controls for both microphone and phonograph permit effective blending and fading action. Microphone current is automatically supplied by the amplifier. No external batteries or mixers are required. Microphone and speaker receptacles are polarized and clearly marked for rapid convenient connection. Has tip-jack for extra speaker or headphones.

COMPLETE SYSTEM. The Knight 8 Watt Integrated Sound System comes complete with the following: "Little Giant" 8 Watt Amplifier, a high-grade full 8 1/2 inch dynamic speaker with 25 foot 4 conductor cable and polarized plug attached, a good quality double-button carbon microphone with 45 foot 3 conductor cable and polarized plug, attractive 9 inch microphone desk stand, a kit of Raytheon metal tubes, and complete operating instructions. For 110 Volts, 60 cycles. A.C. Ship. wt. 3 1/2 lbs. (For portable case, see page 86.)

B12009. Complete Knight 8 Watt System. **\$2385**

List Price, \$49.45. **YOUR PRICE.**

B12009. COMPLETE KNIGHT 8 WATT STANDARD SYSTEM.....

\$2385

FEATURES:

- Built-in Mixer
- Metal Tubes
- Mike and Phono Input
- Built-in Mike Current
- Full Tone Control
- 6L6 Beam Power
- Full Dynamic Speaker
- Polarized Connections
- Compact—Complete

The Knight 8 Watt Sound System is manufactured under license arrangements with Electrical Research Products, Inc., subsidiary of Western Electric Co., Inc., Radio Corporation of America.



Individual volume controls are provided on the Knight 8 Watt Amplifier for electronically mixing mike and phono. Tone Control is also included. All controls are easily accessible on front base panel.



The Knight 8 Watt Amplifier has plug-in input for high-impedance magnetic phono pickup. May be hooked up instantly for splendid wide fidelity record reproduction. See page 86 for suitable portable phonograph which will match perfectly.

The amazing 6L6 Electron Beam Metal Power Output Tube used in the Knight 8 Watt Standard Amplifier assures full 8 watts output with minimum distortion.

The Knight 8 Watt Amplifier is compactly and pleasingly designed. Measures only 12" x 6" x 7 1/4". In modern brown wrinkle-finish metal case. Has attractive new control panel finished in striking chrome and brown enamel. Equipped with harmoniously designed control knobs of brown bakelite. Has a really professional appearance. There is no finer 8 Watt Amplifier built today.

A sturdy practical portable carrying case which will house the Knight 8 Watt Amplifier perfectly, is shown on page 86.

8 WATT AMPLIFIER ONLY

The Knight 8 Watt Amplifier is offered separately as an ideal replacement for old amplifiers or for use as the heart of practically any low-powered sound system. Has built-in microphone transformer and current supply; equipped with microphone and phonograph mixer. Has Tone Control. Develops full eight watts using 1-6J7 and 1-6L6 metal tubes and 5Z4 metal rectifier. Has an excellent gain of 69 db. with essentially flat frequency response from 80 to 10,000 cycles. Supplies field current for 1-1000 ohm dynamic speaker; output is from plate of 6L6. Input is for single or double-button carbon microphone and high impedance magnetic pickup. For 110 volts, 60 cycles.

A.C. Ship. wt. 1 1/2 lbs. **\$1285**

B12008. 8 Watt Amplifier only. List, \$25.00. **YOUR PRICE.**

B12070. Kit of Raytheon Metal Tubes. NET-\$2.99



Knight 8 WATT High-Gain

\$39.95



8 WATT CRYSTAL MICROPHONE SYSTEM

For the first time at so low a price—a new high quality modern full 8 Watt High-Gain Sound System with latest dual-diaphragm Crystal Microphone, using all of the advantages of the latest metal tubes for superb reproduction. Ideal for smaller installations where limited sound coverage or effective reinforcement is desired. The new high-gain amplifier permits the direct use of the latest type of Crystal Microphone for unusually fine fidelity. A high-grade full 8 1/2 inch electro-dynamic speaker capably handles full output. The new Knight 8 Watt Integrated High-Gain Sound System is distinguished for its modern design and appearance. It is versatile in operation, giving continuous, dependable performance. Each system is carefully tested in our laboratory before shipment. Polarized connections and complete operating instructions permit quick and proper installation and operation.

WITH NEW CRYSTAL MIKE

The Knight 8 Watt High-Gain Sound System uses the new Astatic Dual-diaphragm non-directional Crystal Microphone. The built-in preamplifier stage makes its direct use possible without additional external amplification. The Astatic Crystal Microphone features exceptionally fine frequency response; will pick up sound from any angle, reduces "feed-back" to a minimum. All voice and musical frequencies are faithfully handled. The compact, watch-case size of the microphone makes it convenient to use. The Knight 8 Watt High-Gain Sound System has been skillfully engineered to utilize to the fullest the decided advantages of crystal microphone performance. Each Knight 8 Watt High-Gain Sound System is manufactured under license arrangements with Electrical Research Products, Inc., subsidiary of Western Electric Co., Inc., Radio Corporation of America.

LATEST METAL TUBES

The Knight 8 Watt High-Gain Amplifier used in the system employs a powerful three stage circuit utilizing the newest metal tubes to the fullest advantage as follows: 1—6J7 as crystal mike preamplifier; 1—6N7 as electronic mixer and driver; 1—6L6 Electro-Beam Power tube as power output; 1—5Z4 as rectifier. This modern tube line-up assures absolute rated output and minimum distortion. The Knight 8 Watt High-Gain Sound System comes to you complete with all cables and plugs attached. It can be set up instantly and is unusually simple to operate. For performance, for reliability, and for value, the Knight 8 Watt High-Gain System is without competition.

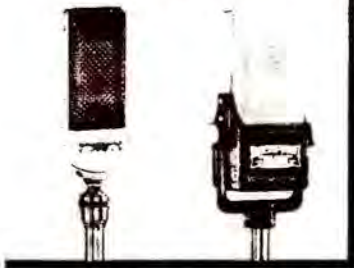
NEW HIGH-GAIN CIRCUIT

The new high-gain circuit used in the Knight 8 Watt "Little Giant" Amplifier employs the latest metal tubes. Input is arranged for a high-impedance magnetic phonograph pickup as well as for the crystal microphone supplied. Separate volume controls are provided for microphone and phonograph permitting blending and mixing action. Tone Control is also included to accentuate bass or treble as desired. The amplifier develops an essentially flat frequency response from 80 to 10,000 cycles. Gain is 110 db. for crystal microphone and 88 db. for phonograph. Field current for the dynamic speaker is supplied by the amplifier; an extra speaker jack permits the use of an additional speaker if desired. The versatile design of the Knight 8 Watt System makes it suitable for many sound applications.

SYSTEM COMPLETE

The Knight 8 Watt High-Gain Sound System includes the Little Giant Amplifier described on next page, a high grade full 8 1/2 inch dynamic speaker with 25 foot 4 conductor cable and plug attached, an Astatic Dual-diaphragm Crystal Microphone with 25 foot cable and plug, attractive microphone banquet stand, a kit of Raytheon metal tubes, and complete operating instructions. Draw only 64 watts from 110 Volt, 60 cycle, A.C. line. Spkg. wt., 39 lbs. Ready for easy installation and operation. The Knight 8 Watt Integrated High-Gain Sound System is the finest 8 watt P.A. value ever offered.

B12012, List. \$39.50
YOUR PRICE..... \$39.95
 (For Portable Phonograph, see Page 55.)



VELOTRON SYSTEM

VELOCITY SYSTEM

Essentially the same as the 8 Watt Crystal System but is furnished with the new Velotron microphone which has somewhat more sensitivity and better frequency range. Complete system includes: 1 Knight 8 Watt High-Gain Amplifier, 1 Velotron microphone with 25 foot cable and polarized plug; 1 de luxe adjustable banquet stand; 1 Knight 8 1/2" dynamic speaker with 25 foot cable and polarized plug; kit of Raytheon metal tubes and operating instructions. For 110 Volts, 60 cycles, A.C. Spkg. wt., 39 lbs. **B12013**, List. \$73.50

YOUR PRICE.....

\$36.75

The Knight 8 Watt High-Gain Sound System is also available with a high-grade Velocity microphone. Ideal for musicians, orchestras, singers, churches, etc. Complete system: 1 Knight 8 Watt High-Gain Amplifier, 1 Magnetic Velocity microphone with 20 foot cable and polarized plug; 1 de luxe adjustable banquet stand; 1 Knight 8 1/2" dynamic speaker with 25 foot cable and polarized plug; kit of Raytheon metal tubes and operating instructions. For 110 Volts, 60 cycles, A.C. Spkg. wt., 39 lbs. **B12014**, List. \$89.50

YOUR PRICE.....

\$44.25

(See Page 55 for portable carrying case. For a fine portable electric phonograph to match, see Page 55.) You get maximum value when you buy these Knight 8 Watt Systems.

"LITTLE GIANT" SOUND SYSTEMS



CHOICE OF MIKES

The Knight 8 Watt High-Gain Amplifier has universal input for any high-impedance microphone. Available with the latest high-grade Crystal, Velotron, or Velocity microphones. Your choice of microphone equipment is offered on page 72.



PHONOGRAPH INPUT

The Knight 8 Watt High-Gain Amplifier has plug-in input for high-impedance magnetic phono pickup. May be hooked up instantly for perfect record reproduction. See page 85 for suitable matching portable phonograph which will give splendid results at an attractive price.



BUILT-IN MIXER

Individual volume controls are provided in the Knight 8 Watt High-Gain Amplifier for electronically mixing microphone and phonograph. Tone Control is also included. All controls are easily accessible on front base panel. Nothing has been omitted to attain the finest P.A. results.



LARGE SPEAKER

A full 8 1/4 inch electro-dynamic speaker of superior quality is coupled with the Knight 8 Watt Systems for rich, wide fidelity tone with negligible distortion. Handles output adequately. Matched perfectly for flawless tonal quality.

8 WATT AMPLIFIER ONLY

The Knight 8 Watt High-Gain Amplifier is available separately either as an ideal replacement for old type amplifiers or for use as the heart of practically any low-powered sound system. Compactly designed; measures 6 1/2" x 12". Weighs only 8 1/2 lbs. Has built-in mike and phono mixer. Develops full eight watts using 1-6J7, 1-6N7 and 1-6L6 tubes with 5Z4 rectifier. Has an excellent gain of 110 db. for microphone, and 58 db. for phono with essentially flat frequency response from 80 to 10,000 cycles. Supplies field current for one 1000 ohm dynamic speaker; output is from plate of 6L6. Has universal input for crystal, Velotron or high-impedance velocity microphones and high impedance magnetic pickup. For 110 volts, 60 cycles, A.C. Draws only 64 watts. Sops. wt. 13 lbs.

B12011. 8 Watt High-Gain Amplifier only. List. \$30.00

YOUR PRICE \$14.75
B12071. Kit of Raytheon Metal Tubes. \$3.91
 (See Page 86 for suitable portable carrying case for Knight 8 Watt High-Gain Amplifier.)

KNIGHT 8 WATT AMPLIFIER ONLY.

\$14.75

The new Knight 8 Watt Amplifier is up-to-the-minute in appearance as well as design. Built into a beautiful new brown wrinkle finished metal case. Measures only 12"x6"x7 1/2". Has striking chrome and brown control panel with attractive brown bakelite pointer knobs to match. Has a professional appearance in fine keeping with its performing quality.



8 WATT High-Gain PORTABLE SOUND SYSTEM

The Knight 8 Watt High-Gain Sound System with Crystal Microphone is also offered in a modern low-cost portable system. Designed for coverage of small audiences. Ideal for musical organizations, lecturers, demonstrators, side-shows, etc. Uses the new Astatic Dual-Diaphragm Crystal Microphone for quiet performance and clear reproduction of both voice and music. Input is provided for the crystal microphone supplied and for a high impedance phonograph. Individual volume controls are provided for microphone and phonograph, for mixing and blending voice and music. Tone control permits compensation for varying acoustical conditions. The use of the latest powerful metal tubes in the high-gain circuit of the amplifier assures full 8 watts output, practically free from distortion. The new 6L6 Electron Beam-Power Tube plays an important part in developing this flawless power. A large 8 1/4 inch Knight Dynamic speaker handles full volume without blasting. All components are housed in a single compact carrying case, 8 3/4"x12 3/4"x16 3/4". Weight complete is only 42 lbs. The new Knight 8 Watt High-Gain Sound System is one of the most versatile portable systems ever designed. For value, completeness, ready portability, ease of operation and highest tonal fidelity, it is absolutely unrivalled even by 8 watt systems at much higher prices.



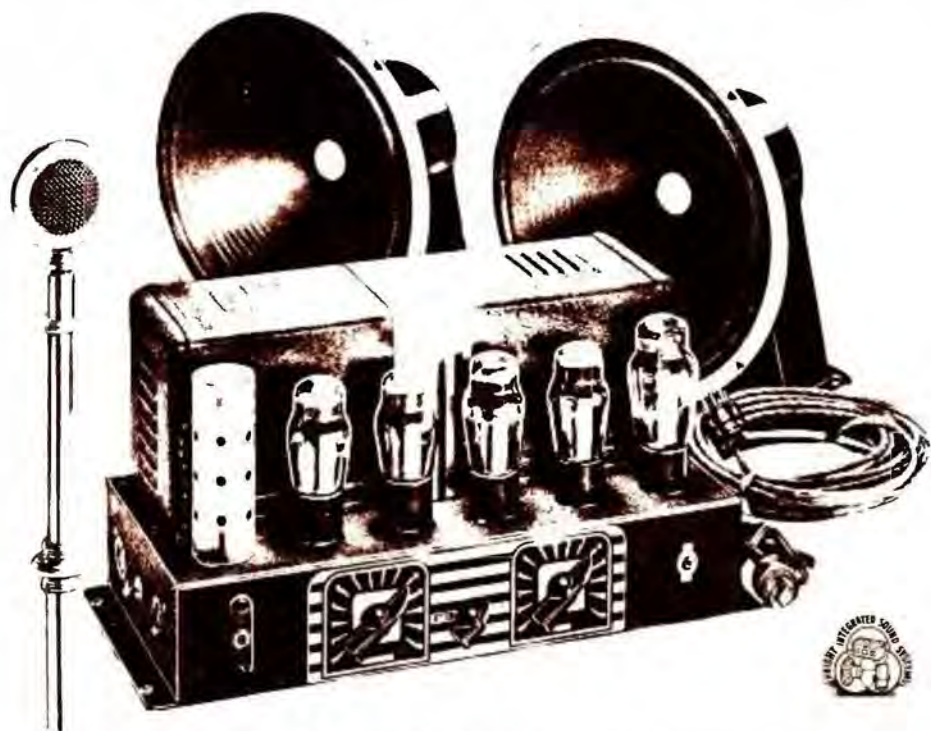
COMPLETE 8 WATT HIGH-GAIN SYSTEM

The complete Knight 8 Watt High-Gain Portable System includes: 1—Knight 8 Watt high-gain amplifier; 1—Astatic Dual-diaphragm Crystal microphone mounted on an attractive banquet stand with 25 foot cable and polarized plug; 1—8 1/4 inch Knight dynamic speaker with 25 foot cable and polarized plug. Entirely self-contained in a single sturdy carrying case. Complete with tubes and instructions. For operation on 110 Volts, 60 cycles, A.C. A wonderful value in a complete, compact full 8 watt portable system.

B12015. List. \$101.50
YOUR PRICE COMPLETE..... \$45.35

(The above system can also be had with a Knight floor stand instead of banquet stand at no extra cost. For suitable portable phonograph, see our attractive selection on page 85. Make your total order come to \$75 or more and you can buy your Knight Sound Equipment on Easy Terms. See page 76 for details.)

Knight 18 WATT High-Gain SOUND SYSTEMS



B12019.
18 WATT CRYSTAL MIKE
SYSTEM COMPLETE

\$63.50
CASH
PRICE

EASY TERMS

You can now buy the Knight 18 Watt Crystal Mike Sound System on our attractive Time Payment Plan by bringing your P. A. order up to \$75 total or more. (See Page 70 for details.) You may add a suitable portable phonograph such as B10080 or B10081 on page 85; or speaker baffles such as B10282 on page 86, or an additional crystal microphone and stand. This will bring your total P. A. order up to or over the minimum time payment requirements. Take advantage of the new **ALLIED Time Payment Plan**—use the Knight Sound Equipment you need now, and pay for it conveniently on our Easy Terms.

The Knight 18 Watt High-Gain Sound Systems are manufactured under license arrangements with Electrical Research Products, Inc., subsidiary of Western Electric Co., Inc., Radio Corporation of America.

18 WATT CRYSTAL MIKE SYSTEM

An exceptional value in a new low-cost complete Knight 18 Watt Integrated Sound System using the latest dual-diaphragm type crystal microphone. This new type of crystal microphone has an exceptionally fine frequency response; greatly reduces feed-back and will pick up sound from any angle. In addition, it has the advantage of being extremely compact and inconspicuous—actually the size of an ordinary watch. (An additional high-impedance microphone may be added, if desired, for special effects.) The high-gain amplifier of this 18 Watt System develops full 18 watts output using the crystal microphone. Four high-gain stages are employed using the latest type tubes; 1—6C6, 2—6A6, 2—6B5, 1—5Z3. The two 6B5 tubes used as push-pull power amplifiers assure greater gain (115 db.) with less distortion than any other equivalent tubes. Frequency response is essentially flat from 80 to 10,000 C.P.S. Hum level is minus 25 db. These splendid characteristics assure high output coupled with excellent fidelity.

BUILT-IN ELECTRONIC MIXER CIRCUIT

Input is provided in the Knight 18 Watt System for a high-impedance phonograph pickup. Individual volume controls for microphone and phonograph permit blending and fading as desired. "Mixing" action is electronically controlled. Tone Control is provided to give bass or treble emphasis and to compensate for varying acoustical conditions. All controls are readily accessible on the modern chrome and brown operating panel. Two giant Knight full 12 inch Auditorium electro-dynamic speakers are supplied with the Knight 18 Watt Sound System. They adequately handle the full output of the amplifier, giving wide-range faithful reproduction. The amplifier supplies all field current for operation of these speakers. (See next page for further details.)

18 WATTS OUTPUT

The High-Gain Amplifier incorporated in the Knight 18 Watt Sound System develops a full 18 watts output, with admirable fidelity, free from distortion. High-grade components, integrated perfectly, are coupled with advanced design and skillful building to assure highest quality and value.

COMPLETE 18 WATT CRYSTAL MIKE SYSTEM

The complete Knight 18 Watt Crystal Mike Sound System includes: 1—Knight 18 Watt High-Gain Amplifier; 1—Astatic dual-diaphragm Crystal microphone; 25 feet of special crystal microphone cable and polarized plug; 1—standard Knight microphone floor stand with sure-grip clutch (adjustable from 46 to 70 inches); 2—12 inch Knight dynamic speakers with 30 foot cables and polarized plugs; complete Raytheon tube kit, and full instructions. For operation on 110 Volts, 60 cycles A.C. Ready for installation. Shpg. wt., 55 lbs.

B12019.
List. \$127.50.
CASH PRICE.....

\$63.50

(Note: See page 85 for Portable Phonograph. See page 86 for Portable Case and Baffles. Make your order come to \$75 or more and buy on our Easy Terms Plan.)

With Outstanding NEW FEATURES!

NEVER BEFORE SO MUCH PUBLIC ADDRESS VALUE!

NEWEST FEATURES:

- Universal Input for: Crystal, Velotron, Velocity, Sound Cell Mikes
- Built-in Pre-Amplifier
- Phono Input
- Tone Control
- Dual Mike Switch
- 12' Speakers
- Electronic Mixer
- Universal Output
- Polarized Connections
- Full 18 Watts Output
- Modern Design

WIDE FREQUENCY RANGE

Brilliant engineering has made the Knight 18 Watt Sound Systems marvels of efficiency, resulting in exceptional high gain and remarkable wide-range fidelity. Frequency response is essentially flat from 80 to 10,000 C.P.S. The four stages utilized in the amplifier develop the exceptionally high gain of 115 db. At full rated output, distortion is only 7%. Hum level is minus 25 db. These splendid characteristics assure high output coupled with excellent fidelity. The Knight 18 Watt Sound Systems are ideal both for sound reinforcement as well as for powerful public address coverage.

GIANT 12' SPEAKERS

The Knight 18 Watt High-Gain Sound Systems use 2 giant Knight full 12 inch Auditorium Dynamic Speakers which adequately handle the output of the amplifier, giving wide-range faithful reproduction. These popular speakers feature heavy pressed-steel construction and rugged design for heavy-duty use. Equipped with carrying handles, the amplifier supplies all field current for the operation of these speakers. Each speaker is equipped with 30 foot cable and plug attached. (For suitable speaker baffles, which will give even wider coverage, see our complete listing on page 86.)

Has universal input for any high-impedance microphone. Available with choice of Crystal, Velotron, Velocity, or Sound Cell mikes.



Has plug-in input for high-impedance magnetic phono pickup. See page 85 for suitable portable phonograph.



For suitable baffles and projectors which will give even wider coverage to the Knight 18 Watt Sound Systems, see listing on page 86.

POWERFUL CIRCUIT

The High-Gain Amplifier incorporated in the Knight 18 Watt Sound Systems develops a full 18 watts output, with admirable fidelity, free from distortion. Four high-gain stages are employed, using the latest type tubes as follows: 1-6C6 as crystal mike preamplifier; 1-6A6 as electronic mixer and voltage amplifier; 1-6A6 as phase inverter and driver; 2-6B5 as push-pull power amplifiers; with 5Z4 as rectifier. The two 6B5 tubes used as push-pull power amplifiers assure greater gain with less distortion than any other equivalent tubes. High grade components, advanced design and skillful building assure highest quality and full value. These Knight 18 Watt Integrated Sound Systems should not be confused with systems claiming the same performance but which are actually of inferior design and construction.

ELECTRONIC MIXER

Individual volume controls are provided for both microphone and phonograph, permitting blending of sound as desired. "Mixing" action is electronically controlled in the 6A6 tube. Provision is also made to permit the use of an additional microphone, with a special selector switch arrangement which allows either microphone to be cut in at will. This feature adds real versatility to the system, making it possible to achieve special effects such as off-stage announcements, solo work with or without orchestration, etc. Tone Control is provided to give bass or treble emphasis and to compensate for varying acoustical conditions. All controls are conveniently located on front base of amplifier. Polarized receptacles are provided for microphone and speaker. Twin-jack accommodates phonograph input. Note the modern attractive design of the new Knight 18 Watt Amplifier. The metal case is finished in attractive brown-wrinkle. Control panel is chrome and braced with brown bar-knobs.

Individual volume controls are provided for electronically mixing mike and phono. Tone Control is also included. All controls are easily accessible.



Two giant 12-inch Electro-dynamic speakers are coupled with the Knight 18 Watt Systems for rich, wide-fidelity tonal range.



Has provision for use of additional microphone. Switch arrangement allows either mike (they need not be alike) to be cut in at will as desired.

18 WATT HIGH-GAIN AMPLIFIER ONLY

The Knight 18 Watt High-Gain Amplifier is available separately as an ideal nucleus for sound systems using low level microphones. Has universal input for any high impedance microphone and phono. 4 high-gain stages develop a remarkable gain of 115 db, permitting the direct use of high impedance microphones without requiring the use of a pre-amplifier. The frequency response is essentially flat from 80 to 10,000 cycles. The Knight 18 Watt High-Gain Amplifier has individual volume controls for both microphone and phonograph, permitting them to be "faded" or "mixed" as desired. Provision is made for the use of two microphones, either of which may be used at will. Tone Control is built in for bass or treble emphasis. Has polarized receptacles for mike and speakers and twin jack for phono input. Has built-in field excitation for 2-4000 ohm dynamic speakers; output is universal, tapped at 4, 8, 16 and 300 ohms. Size: 17 1/2" x 7 1/2" x 8 1/2". Suggested retail price, \$27.75. Net price, \$22.75. Ship. wt., 25 lbs. For 110 Volts, 60 cycles A.C. B12018. Knight 18 Watt High-Gain Amplifier, less tubes.

List, \$57.50. CASH PRICE..... \$27.75
B12072. Raytheon Tube Kit. NET..... \$5.21



VELOTRON SYSTEM

Complete Knight 18 Watt Integrated System as described at left, but with a Velotron static-velocity microphone instead of Crystal microphone. B12020. List, \$120.00. CASH PRICE.....

\$59.75



VELOCITY SYSTEM

Complete Knight 18 Watt Integrated System as described, but with high-grade Velocity microphone. Meets the demand for wide-range tonal fidelity. B12021. List, \$137.50. CASH PRICE.....

\$68.25



SOUND CELL SYSTEM

Complete Knight 18 Watt Integrated System as described but with Brush Sound Cell microphone. Has 360° pickup and fine response. B12022. List, \$140.00. CASH PRICE.....

\$69.95

(To take advantage of our Time Payment Plan, bring your P.O. order up to \$75 or more by adding portable phono, baffles or additional microphones and stand.)



Knight 25 WATT High-Gain SOUND SYSTEMS

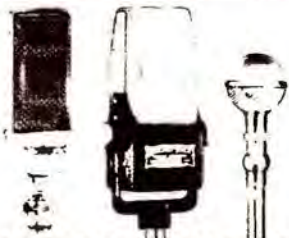


COMPLETE 25 WATT CRYSTAL SYSTEM

\$91⁵⁰
Cash Price

You can now buy the new Knight 25 Watt High-Gain Sound Systems on our convenient Time Payment Plan. For complete details and Easy Terms, read page 76. It will pay you to buy Knight Sound Equipment because you can earn and profit while you are paying for it on our easy convenient terms.

The Knight 25 Watt High-Gain Sound Systems are manufactured under license arrangements with Electrical Research Products, Inc., Subsidiary of Western Electric Co., Inc., Radio Corporation of America.



B12027. 25 WATT VELOTRON SYSTEM.
Same as Crystal System described above at right but with 2 Velotron Microphones instead of Crystal Mikes.
Complete 25 Watt System.
List. \$170.00. **CASH PRICE..... \$84.95**

B12028. 25 WATT VELOCITY SYSTEM.
Same as above but with 2 Velocity Microphones.
Complete 25 Watt System.
List. \$200.00.
CASH PRICE..... \$99.50

B12029. 25 WATT SOUND CELL SYSTEM.
Same as above but with 2 Brush Sound Cell Microphones.
Complete 25 Watt System.
List. \$215.00.
CASH PRICE..... \$107.50

76 See Page 70 for Easy Payment Plan

UNIVERSAL MICROPHONE INPUT

An entirely new High-Gain Sound System of intermediate power, styled along the most modern lines, includes many exclusive new features. Universal Input is provided for the use of two of any type high-impedance microphones. We offer below a choice of systems using either dual-diaphragm Crystal, Velotron, Velocity or Sound Cell Microphones. Input is also arranged for a high-impedance magnetic phono pickup. Both microphones may be used simultaneously, and "mixed" or blended as desired. An exclusive new feature is the output indicator which shows visually the output level at which the system is operating. The use of the new 6L6 Electron Beam Power Tubes assures full 25 watts output with absolute minimum of distortion. The new Knight 25 Watt High-Gain Sound System is suitable for use by orchestras, churches, morticians, schools, clubs and lodges, night clubs and carnivals or wherever intermediate power with exceptionally fine tonal fidelity is desired.

4 HIGH-GAIN STAGES—3 CHANNEL MIXER

The amplifier used in the Knight 25 Watt System features four high-gain stages using the following metal tubes: 2—6J7 as mike preamplifiers; 2—6N7 as voltage amplifiers and Electronic mixers; 1—6N7 as driver; 2—6L6 as push-pull Beam Power output stage; 1—6X5 as output meter tube. An 8J tube is rectifier. This powerful circuit has a gain of 118 db. on microphone and 65 db. for phono. Frequency response is essentially flat from 80 to 10,000 C.P.S. A three-channel mixer is incorporated, which includes a separate volume control for each microphone and for phonograph. "Mixing" is electronically controlled, permitting any degree of blending as desired. Each control functions independently and has no effect on the others. Tone Control is provided to compensate for varying acoustical conditions. Two of the latest 12 inch Knight Auditorium Electro-dynamic speakers handle the full output without distortion and with excellent tonal fidelity. All receptacles for microphones and speakers are polarized.

COMPLETE 25 WATT CRYSTAL HIGH-GAIN SYSTEM

The Knight 25 Watt High-Gain Integrated Sound System is offered complete as illustrated above, with two Amatic Dual-diaphragm Crystal Microphones. Includes: 1—Knight 25 Watt High-Gain Amplifier; 2—Knight 12 inch dynamic speakers with 30 foot cables and polarized plugs; 2—Astatic Crystal Microphones with 35 foot cables and polarized plugs; 2—Knight microphone floor stands; Complete Raytheon tube kit and full instructions. For 110 volts, 60 cycles A. C. Ship. wt. 71 lbs.

B12026. List. \$185.00.

CASH PRICE.....

\$91⁵⁰

SEE PAGE 76 FOR CONVENIENT TIME PAYMENT PLAN



B12025. 25 WATT AMATIC ONLY. Features as described above. 17x12x8 1/2". Ship. wt. 31 lbs. For 110 volts 60 cycles. A. C. Less tubes. **\$35.95**
NET

B12025. Raytheon Tube Kit. NET.....\$8.29

3 Channel Mixer has separate volume controls for each microphone and for phono—permitting electronic "mixing" of all three. Each control functions independently and has no effect on the others. Tone Control is also included. With exclusive output indicator.

Baffles and Projectors. For even better sound coverage, indoor or outdoors (when speakers are not mounted on large flat baffles) we recommend the use of the projectors and directional baffles which are illustrated on page 86.



Knight Low-Cost

GIANT 60 WATT SOUND SYSTEMS



FEATURES:

- UNIVERSAL MIKE INPUT
- NEW OUTPUT INDICATOR
- 3 CHANNEL MIXER
- 6L6 BEAM POWER TUBES
- PHONOGRAPH INPUT
- WITH TONE CONTROL
- POLARIZED CONNECTIONS
- MODERN DESIGN

New giant high-gain Sound Systems designed for complete coverage of huge crowds. Particularly recommended for outdoor use in large athletic fields, in public parks, in music handbells, at race tracks, circuses, etc. New Universal Input permits the simultaneous use of 2 high impedance microphones such as: diaphragm type Crystal, static-velocity Velotron, Velocity, or Sound Cell crystal types, as well as a high impedance magnetic phonograph. Complete Giant Sound Systems are listed below using these high-quality microphones.

GIANT 60 WATTS OUTPUT

The Knight 60 Watt High-Gain Amplifier used develops full output with any of the microphones listed. 4 high-gain stages employ: 2-6N7 as microphone preamplifiers, 2-6N7 as electronic mixers and voltage amplifiers, 2-6C5 as drivers, 2-6L6 as Electro Beam-power output tubes, 1-5Z4 as fixed bias tube, 1-6X5 as Volume Indicator tube, 1-83 as rectifier. This modern tube combination assures a gain of 122 db. for microphones and 65 db. for phonograph. Frequency response is essentially flat from 80 to 10,000 cycles. Separate volume controls are incorporated for each microphone as well as for phono, permitting any desired degree of blending; mixing is accomplished electronically. A tone control is provided to compensate for varying acoustical conditions. All controls, including "on-off" switch are conveniently grouped on the front panel for ready accessibility.

The Knight 60 Watt Sound Systems are manufactured under license arrangements with Electrical Research Products, Inc., Subsidiary of Western Electric Co., Inc., Radio Corporation of America.



WITH OUTPUT METER

An exclusive feature of Knight 60 Watt Integrated Giant Sound Systems is the calibrated output meter which permits accurate maintenance of any desired volume level. This is a practical necessity where the amplifier is located at a distance from the microphones or speakers. Four new type permanent magnet dynamic speakers are supplied with each Knight 60 Watt Giant Sound System. They employ a new magnetic alloy in their field structures to assure excellent power handling ability with true tonal fidelity. (Additional speakers may be added as desired.) Each speaker is equipped with a line transformer to properly match the 500 ohm output of the amplifier and with 50 feet of connecting cable, with polarized plug attached.

COMPLETELY ASSEMBLED

Knight 60 Watt Giant Sound Systems are completely assembled and tested in our laboratories before shipment. This assures absolute trouble-free installation and operation. All components are carefully matched to assure dependable operation and superb reproduction. With all these features, Knight 60 Watt Giant Sound Systems are still low in cost and economical in operation. They draw only 275 watts from a 110 volt 60 cycle A.C. line. The complete systems as listed offer a choice of any 2 Crystal, Velotron, Velocity or Sound Cell microphones. For 110 Volt 60 cycle A.C. operation.

COMPLETE CRYSTAL SYSTEM

The powerful Knight 60 Watt Giant Sound System is offered complete, with 2-Automatic dual-diaphragm Crystal microphones with 25 ft. cables and polarized plugs; 2-Knight Microphone Floor stands; 1-Knight 60 watt High Gain Amplifier; 4-new type P.M. Dynamic Speakers, each with 50 ft. cable and polarized plug; Raytheon tube kit and complete instructions. For 110 volts, 60 cycles A.C. Shpg. wt. 100 lbs.

B12061, List. \$265.00. CASH PRICE.....

\$132.50

You can now buy the New Knight 60 Watt Sound Systems on our convenient Time Payment Plan. See Page 76 for complete details and Easy Terms chart.



B12062, Knight 60 Watt System complete as described below at left but with 2-Velotron Microphones instead of Crystal Mikes. List. \$250.00. CASH PRICE..... **\$125.00**

B12063, Knight 60 Watt System complete as described with 2-high-grade Velocity Microphones. List. \$280.00. CASH PRICE..... **\$139.50**

B12064, Knight 60 Watt System complete as described with 2-Bush Sound Cell Microphones. List. \$395.00. CASH PRICE..... **\$146.50**



AMPLIFIER ONLY

B12060, Knight 60 Watt Amplifier only, with all features as described. 17x12x8 1/2". For use on 110 volts, 60 cycles A.C. Lamp tubes. List. \$20.00. CASH PRICE..... **\$49.95**

B12075, Raytheon Tube Kit. NET..... **\$9.61**





COMPLETE 35 WATT
CRYSTAL SYSTEM

\$99.50
CASH
PRICE

SEE PAGE 70 FOR
TIME PAYMENT PLAN

FEATURES:

- 2 Universal Mike Inputs
- Output Indicator
- Electronic Mixer
- Phono Input
- 616 Beam Power
- Universal Output
- Metal Tubes
- Polarized Connections
- Tone Control
- Full 35 Watts
- Modern Design

The new Knight 35 Watt High Gain Sound Systems are manufactured under license arrangements with Electrical Research Products, Inc., subsidiary of Western Electric Co., Inc., Radio Corporation of America.

DUAL CRYSTAL MIKES

The built-in dual channel pre-amplifier incorporated in the Knight 35 Watt High-Gain Amplifier permits the direct use of two of the new dual-diaphragm type Astatic Crystal microphones which are of the finest quality available. The three-channel electronic mixer allows blending or fading of both microphones as desired. The use of the two crystal microphones permits high quality wide-range pickup; also allows versatile pickup of voice or music, strengthening and reinforcing the softer musical passages and instruments.

Knight 35 WATT

35 WATT SYSTEM WITH 2 CRYSTAL MICROPHONES

A powerful new 35 Watt High-Gain Sound System delivering a giant output of 35 watts with wide-range fidelity, at a remarkably low price. Uses two high-grade new type dual-diaphragm Astatic Crystal Microphones. Especially developed for excellent service where large coverage and fine tone quality are desired. Suitable for use by orchestras, for church and school, for auditorium and hall platform use; for theater stage presentation; for outdoor pageants, field days, etc. Also recommended for dance halls, convention halls, skating rinks, athletic fields, etc. The Knight High-Gain Integrated Sound System with two Crystal Microphones develops full 35 watts output. Has four high-gain stages using 2-6J7, 2-6N7, 1-6CS, 2-6L6, and 1-6X5 metal tubes, and 1-83. The frequency response is essentially flat from 50 to 10,000 C.P.S. Hum level is minus 25 db. These fine characteristics assure wide range tonal fidelity and large output without distortion. Input is provided for a high impedance phono pickup as well as for two Crystal Microphones. Individual volume controls permit fading and blending at will. Mixing action is electronically controlled. Tone Control is provided to compensate for varying acoustical conditions. The two giant 12 inch Knight Electro-dynamic speakers supplied with the system handle full output, rendering wide-range tonal fidelity. The amplifier supplies all field current.

GIANT 35 WATTS OUTPUT

The newly-designed circuit of the amplifier used in the Knight 35 Watt Sound System has 4 high gain stages, using the latest metal tubes as follows: 2-6J7's as pre-amplifier tubes (one for each microphone); 2-6N7's as voltage amplifiers and electronic mixer; 1-6CS as driver, with 2-6L6's as push-pull Beam Power output stage; and 83 tube is rectifier; 1-6X5 is output indicator tube. This powerful circuit develops a gain of 121 db, permitting the direct use of the two crystal microphones without external pre-amplification. Distortion is less than 7% at full 35 watt output.

WITH OUTPUT INDICATOR

The exclusive new Output Indicator used in the Knight 35 Watt High-Gain System enables you to see visually at all times the exact volume level at which the system is operating. Giant 35 watts output is consistently assured by the powerful circuit using 2-6L6's as push-pull Beam Power Output Stage. The Knight 35 Watt High-Gain System is built along entirely modern lines, incorporating exclusive new features in both design and construction. The amplifier is entirely housed in a brown wrinkle-finished steel case with distinctive roll-top, attractively set off by curved grill-work, handsome chromium and brown dial plates and output indicator strip. Truly professional in appearance and performance. (For further descriptive details, see next page.)

3 CHANNEL MIXER

A unique circuit is provided for complete easy control of the Knight 3 Channel 35 Watt Amplifier. A separate volume control is provided for each crystal microphone and for phonograph. This arrangement permits full control of any degree of blending or "mixing" as desired. One or both microphones may be used for singing or speech against a soft musical background from phono or orchestra. Tone Control is also provided to accentuate bass or treble and to compensate for unfavorable acoustical conditions. This control design gives the Knight 35 Watt System unusual versatility.

COMPLETE CRYSTAL SYSTEM

The complete Knight 35 Watt High-Gain Crystal Microphone System includes: 1—Knight 35 Watt Amplifier; 2—Astatic Crystal Microphones with 25 foot cables and polarized plugs; 2—Knight Adjustable Microphone Floor Stands; 2—12 inch Knight Dynamic Speakers with 30 foot cables and polarized plugs; complete acetylene tube set and instructions. Shpg. wt., 73 lbs. For 110 volts, 60 cycles, A.C. **B12036, Complete 35 Watt High-Gain Crystal Microphone System. LIST, \$200.00**

\$99.50
CASH PRICE.....
(See Page 85 for Portable Cases.) SEE PAGE 70 FOR TIME PAYMENT PLAN.

78 Powerful DUAL-MIKE All-Purpose SOUND SYSTEMS

VELOTRON SYSTEM

The Knight 35 Watt Sound System is offered complete as described with 2 new-type static-velocity Velotron Microphones as illustrated immediately above. These microphones are noted for their excellent fidelity range for both voice and music. System comes complete as follows: 1—Knight 35 Watt Amplifier; 2—Velotron Microphones with 25 foot cables and polarized plugs; 2—Knight microphone floor stands; 2—12 inch Knight dynamic speakers with 20 foot cables and polarized plugs; complete Raytheon tube kit and instructions.

B12037
List. \$185.00.

CASH PRICE

VELOCITY SYSTEM

The Knight 35 Watt System is offered also with two high-grade Velocity Microphones. Developed especially for applications demanding exceptionally faithful and true reproduction of both voice and music, System comes complete as follows: 1—Knight 35 Watt Amplifier; 2—Velocity Microphones with 20 foot cables and polarized plugs; 2—Knight microphone floor stands; 2—12 inch Knight dynamic speakers with 20 foot cables and polarized plugs; Raytheon tubes and instructions.

B12038
List. \$215.00.

CASH PRICE

SOUND CELL SYSTEM

The Knight 35 Watt Sound System is further available with 2 genuine Brush Sound Cell Microphones. They feature 360° pickup, very small size and unusually wide frequency response. Excellent for high quality orchestral and choral reinforcement. Complete system includes: 1—Knight 35 Watt Amplifier; 2—Sound Cell Microphones with 25 foot cables and polarized plugs; 2—Knight microphone floor stands; 2—12 inch Knight dynamic speakers with 20 foot cables and polarized plugs; complete Raytheon tube kit and instructions.

B12039
List. \$225.00.

CASH PRICE



USES 2 MIKES AT ONCE

The Knight 35 Watt Amplifier permits the simultaneous use of any two high-impedance microphones such as diaphragm-type Crystal, Velotron, Velocity or Sound Cell types. All of these types are offered below on this page and the next in complete high-grade 35 Watt Sound System. You can have your choice of any of this fine mike equipment.



OUTPUT INDICATOR

An exclusive new Knight feature! Has easy-to-read calibrated scale which indicates power output and makes it possible to readily maintain any power level desired. No more guessing; you always know at what volume level the amplifier is operating. Reference chart furnished shows calibrated output in watts.



CHOICE OF MIKES

The Knight 35 Watt High-Gain Amplifier will operate with any type high-impedance microphone. We offer a choice of dual-diaphragm Crystal, static-velocity Velotron, Velocity, and Brush Sound Cell Microphones. Each Knight 35 Watt System offers you maximum performance and maximum quality. You get more value from ALLIED.



3 CHANNEL MIXER

Separate volume controls for each microphone and for phono are provided in the Knight 35 Watt System. Mixing of all three (two mikes and one phono) is accomplished electronically within the "mixing" tubes. Each control functions independently and has no effect on the others.

\$92.50 **\$107.50** **\$125.00**

You can now buy any of the above Knight 35 Watt Sound Systems on our convenient Time Payment Plan. See Page 70 for complete details. Pay for your Knight P. A. equipment as you use it! You will like our attractive easy-to-pay terms.

3 CHANNEL HIGH-GAIN SOUND SYSTEMS

UNIVERSAL MIKE INPUT

The Knight 35 Watt High-Gain Amplifier will give splendid results with any type high-impedance microphones. We have selected and offered on these pages a fine choice of associated microphone equipment in four complete 35 Watt High-Gain Sound Systems. You have your choice of a system equipped with two of the latest dual-diaphragm Crystal Microphones, offering splendid quality at a very moderate price; a system with two of the new static-velocity Velotron Microphones for somewhat wider frequency range; a system with two high-grade Velocity Microphones for high quality voice and music work; and a system with two Brush Sound Cell Microphones for applications demanding the very finest sound quality sound performance. This large choice of microphone equipment permits Knight 35 Watt High-Gain Sound Systems to meet practically any Public Address or Sound application where giant coverage and excellent tonal fidelity are required.

LARGE POWER—LOW COST

For installations requiring giant output with good tonal quality at a reasonable price, the Knight 35 Watt High-Gain Dual Microphone Systems are the logical answer. They are remarkable for their simplicity and completeness, and for ease of installation and operation. Anyone can set these systems up for operation in just a few minutes. They have a multitude of applications, including use for large public meetings, for skating rinks, for dramatic performances, for large orchestras, for athletic fields, etc. Ideal large power, low-cost sound systems which offer versatile high fidelity microphone reproduction and brilliant phonograph performance. Knight 35 Watt Integrated High-Gain Sound Systems represent value that cannot be surpassed at anywhere near ALLIED'S low prices.



PHONO INPUT

Provision is made for plugging in high impedance phonograph pickup. Separate volume control for phonograph permits its use individually or with microphones, as desired. For suitable Portable Phonographs, see Page 85. Knight 35 Watt Systems with matched components assure the very finest in high quality sound results.



Baffles

For even better sound coverage, indoors or outdoors (where speakers are not mounted on large, flat baffles) we suggest the use of the projectors and directional baffles shown on page 86. Weatherproof outdoor types as well as indoor types are shown.

Knight 35 WATT AMPLIFIER ONLY

The Knight 35 Watt High Gain Amplifier is available separately for replacement in high grade sound systems or as initial equipment. Has input for two high impedance microphones and phonograph. Four high gain stages develop a gain of 121 db, permitting the direct use of low-level microphones without external pre-amplification. Uses 2—6J7, 2—6N7, 1—6C5, 2—6L6, 1—6X5 metal tubes, 1—83 rectifier. The amplifier has an exceptionally wide frequency response essentially flat from 50 to 10,000 cycles. Distortion is less than 1% at full 35 watt output. Hum level is minus 25 db. Field supply for 2—4000 ohm dynamic speakers is built in. Output is universal, tapped at 4, 8, 16 and 500 ohms. Polarized receptacles for microphones and speakers are provided. Equipped with individual volume controls for each microphone and for phonograph. A tone control is also provided to attenuate the higher frequencies where "feedback" may be encountered. The A.C. switch is located on the front panel. Modern case measures 11 1/2 x 8 1/4 inches. Brown wrinkle finish, with chromium and brown control plates and output indicator strip. For 110 volts, 60 cycles A.C. Shpg. wt., 33 lbs.

B12035 35 Watt Amplifier, less tubes.
List. \$87.50. CASH PRICE

B12036 35 Watt Amplifier, with tubes, NET \$125.00

B12037 35 Watt Amplifier, with tubes, NET \$185.00
(For Portable Amplifier Case, see Page 86.)

\$43.50



NOW! POWERFUL P. A. FROM 6



20 WATT MOBILE SYSTEM

An entirely new powerful Public Address System designed for versatile performance. Operates directly and entirely from a single 6 volt storage battery wherever AC current is not available, or may be used on 110 Volts AC current simply by adding the inexpensive power pack listed below. Has truly universal application for mobile or temporary installations both indoors and outdoors, no matter what the current limitations may be. Will cover large crowds with wonderful power and excellent fidelity. Compact and portable. May be simply and quickly installed or changed from car to car or from one place to another. The finest and most efficient mobile-portable sound system available. Features a powerful 20 watt new high-gain circuit for direct operation of a high quality Astatic Dual-diaphragm Crystal Hand Microphone as well as phonograph. Built of the finest components and designed for the utmost simplicity in installation and operation. Beautifully built into a modern brown-wrinkle finished steel case with rounded corners, chromium and brown enamel trim, and heavy chromium carrying handles. Anyone can install and operate the Knight 20 Watt Mobile System easily and properly. It is the last word in versatile P.A. performance.



KNIGHT 20 WATT MOBILE SYSTEM COMPLETE. CASH PRICE

\$107.50
WITH TUBES

SEE PAGE 78 FOR COMPLETE DETAILS OF OUR NEW CONVENIENT TIME PAYMENT PLAN. EARN WITH THIS KNIGHT P. A. EQUIPMENT WHILE YOU PAY!

BUILT-IN MIXER

The built-in control panel conveniently located on the top face of the steel amplifier cabinet carries separate volume controls for the microphone and phono pickup, permitting blending and "mixing" of voice or music as desired. Also includes tone control as well as "on-off" switch and "bull-eye" and "stand-by" switches. Polarized receptacles are provided for plugging in microphone, speakers, "A" cable and 110 Volt AC power pack. May be installed completely, disconnected, or changed from 6 volts to 110 volts source quickly and easily.

NEW CRYSTAL MIKE

The built-in preamplifier incorporated in the Knight 20 Watt High-Gain Portable-Mobile P.A. allows permits the direct use of a new type Astatic Dual-diaphragm Watch-case Crystal Hand Microphone. The use of this new microphone assures exceptional fidelity of voice reproduction and an outstanding quality of tone never before possible in a mobile sound installation. The convenient compact size of the Astatic Crystal Hand Microphone permits its use practically anywhere. It has the ruggedness and quality essential as specially for mobile work.

COMPACT—POWERFUL

The complete Knight 20 Watt Mobile-Portable System consists of: 1—powerful 20 Watt High-Gain Amplifier, high grade dynamotor, single-speed electric phono motor, good quality magnetic pickup and control panel all self-contained in a single compact modern steel cabinet with carrying handles; 2—new type 12 inch Permanent Magnet Dynamic Speakers with 10 foot cables and polarized plugs; 1—new type Astatic Dual-diaphragm Crystal Hand Microphone with 6 foot cable and polarized plug. Designed to operate directly from a single 6 volt storage battery, but equipped with receptacle for quick connection to special 110 Volt AC power pack described below, to permit efficient operation from any 110 Volt 60 cycle AC line. The powerful 20 Watt High-Gain Amplifier uses six new type tubes in an efficient 4 stage circuit with a gain of 115 db. Tubes used are: 1—6C6, 2—76, and 3—6A6. The amplifier has an essentially flat frequency response from 80 to 10,000 C.P.S.

COMPLETE 20 WATT SYSTEM

The Knight 20 Watt High-Gain Mobile-Portable System is offered for operation from a 6 Volt storage battery only (110 Volts, 60 cycles AC power pack is listed below), complete as follows: 1—20 Watt High-Gain Amplifier, mixing panel, and phonograph in steel cabinet, with 2—12 inch Permanent Magnet Dynamic Speakers with cables and plugs, Astatic Crystal Hand Microphone with cable and plug, and complete operating instructions. Cabinet measures 11 1/2" x 14" x 10". Shpg. wt., 85 lbs.

B12030, Complete 6 Volt 20 Watt System.
List Price, \$215.00.
CASH PRICE, **\$107.50**
with tubes.....

B12031, SPECIAL PLUG-IN 110 VOLT 60 CYCLE AC POWER PACK. Permits complete operation of above system from any 110 Volt, 60 cycle AC line. Complete with tube. List, \$25.00. **YOUR PRICE..... \$11.95**



Illustration above shows typical sound car speaker installation using directional aluminum baffles for superb sound coverage. See page 86 for complete description. These baffles make an effective, sturdy and attractive installation, and may easily be taken down for use indoors. Add these low cost baffles to your order.



Flat speaker baffle built into the side of the sound car are illustrated above. These baffles may be easily and inexpensively constructed out of heavy plywood or any other soft wood. May be painted to harmonize with finish of sound car. This type of baffle gives excellent side coverage at low cost.



Another method of mounting speakers on sound car. Here, weatherproof directional baffles are used. These baffles are described on page 86. They are low-priced, effective units, built of weatherproof material, attractively finished in aluminum. These baffles distribute sound over a wide area.

VOLTS D. C. OR 110 VOLTS A. C.

POWER PACK

Will operate either the Knight 15 Watt mobile or the 15 Watt integrated All-Purpose System described below. Cycle AC has one into amplifier quickly. Switch on both 20 Watt and 15 Watt Amplifiers permits rapid change over from 6 Volt to 110 Volt operation or vice versa. **B1203 Special Plug-in Power Pack for 110 Volts, 60 cycles AC with tube. List, \$25.00. YOUR PRICE.....\$11.95**

LICENSED



FEATURES:

- Universal Mike Input
- Electronic Mixer
- Stand-by Switch
- For 6 V. DC or 110 V. AC
- Built-in Pre-amplifier
- Phonograph Input
- Polarized Receptacles
- New P.M. Speakers
- Full 15 Watts Output

The Knight 15 Watt All-Purpose System is manufactured under license arrangements with Electrical Research Products, Inc., a subsidiary of Western Electric Co., Inc., Radio Corporation of America.

You can now buy your Public Address Equipment on our convenient and attractive new Time Payment Plan - see page 76 for full details. Put the versatile new Knight 15 Watt All-Purpose System to work earning profits for you while you pay for it.

15 WATT All Purpose SYSTEM

A new attractively-priced 15 Watt All-Purpose Sound System. Operates entirely and directly from a single 6 Volt storage battery wherever AC current is not available, or may be operated from 110 Volts AC current simply by adding the plug-in Power Pack listed below. Delivers full 15 watts power output with good coverage. Ideal for all public address applications that require universal use in both city and rural areas. The 15 Watt Amplifier has universal input permitting the use of any high-impedance microphone. We offer below a choice of systems using diaphragm type Crystal, Velotron, Velocity, or Sound Cell Microphones. Input is also provided for a high-impedance magnetic phono pickup. A polarized receptacle on the amplifier permits its use with the special portable phonograph listed below on either 6 Volts DC or 110 Volts AC.

LATEST HIGH-GAIN CIRCUIT

The 15 Watt Amplifier incorporates the most recent high-gain circuit. Four high-gain stages are employed using: 1—6C6 as mixer pre-amplifier; 1—6A6 as Electronic Mixer and voltage amplifier; 1—6A6 as phase inverter and driver; 2—6B5 as push-pull power amplifiers. This modern tube combination assures full 15 watts output with a gain of 113 db. for microphone and 65 db. for phono. The frequency response is essentially flat from 80 to 10,000 cycles. Current drain from a 6 volt storage battery is about 14 amperes; drain using AC pack is approximately 100 watts. A built-in sturdy generator furnishes "B" current dependably for 6 volt operation. A stand-by switch is provided; saves current by keeping the tubes warm for immediate operation while the amplifier itself is turned off. A snap of this switch puts the amplifier into operation without waiting.

The Knight 15 Watt Amplifier is styled along modern lines. It is housed in a metal case, finished in a warm brown-wrinkle. Has attractive chromium and brown control plate with matching brown bakelite bar knobs. Separate volume controls are provided for microphone and phonograph so that they may be blended or mixed as will; "mixing" is electronically controlled. Tone Control is included for emphasis of bass or treble as desired and to compensate for varying acoustical conditions. Input is provided for two high impedance microphones, a switch cuts either one in as will. Two giant 12 inch new type permanent magnet dynamic speakers using new special alloy magnets handle full output adequately with wide tonal response. Polarized receptacles are provided for microphones, speakers and phonograph motor.

15 WATT CRYSTAL SYSTEM

The Knight 15 Watt All-Purpose High-Gain System is offered complete for 6 Volt operation, with dual-diaphragm Crystal Microphone as illustrated above. Includes: 1—Knight 15 Watt All-Purpose Amplifier; 2—Knight 12" P.M. Dynamic Speakers complete with 30 foot cables and polarized plugs; 1—Astatic dual-diaphragm Crystal Microphone with 25 foot special microphone cable and polarized plug; 1—Knight Floor Stand; complete kit of Raytheon tubes, and full operating instructions. For 6 Volt operation only. Ship, wt., 60 lbs. **\$12040. List, \$170.00. YOUR PRICE.....\$8450**

B12031, Special Plug-in AC Power Pack. Permits complete operation of above system from 110 Volt, 60 cycle AC line. Complete with 110 Volt AC. List, \$25.00. **YOUR PRICE.....\$11.95**

B12044, Special Portable Phonograph. Operates with Knight 15 Watt Amplifier on 6 Volts DC or 110 Volt AC. (Must not be used direct on 110 Volts AC.) List, \$55.00. **NET.....\$27.50**

COMPLETE VELOTRON SYSTEM

The Knight 15 Watt All-Purpose Sound System complete as described above but with new Velotron Microphones instead of Crystal Microphone. Less Plug-in 110 Volt Pack. **B12041. List, \$160.00. YOUR PRICE.....\$7950**

COMPLETE VELOCITY SYSTEM

The Knight 15 Watt All-Purpose Sound System complete exactly as described above but with new Velocity Microphones. Less Plug-in 110 Volt Power Pack. **B12042. List, \$180.00. YOUR PRICE.....\$8950**

COMPLETE SOUND CELL SYSTEM

The Knight 15 Watt All-Purpose Sound System complete as described but furnished with new Sound Cell Microphone. Less 110 Volt Power Pack. **B12043. List, \$185.00. YOUR PRICE.....\$9150**

Crystal System
\$8450
CASH PRICE



Two giant new 12 inch Permanent Magnet Dynamic Speakers using special magnetic alloys in their fields are provided with the new Knight 15 Watt Systems. They are amazingly efficient, handling full output without overloading and with absolute tonal fidelity.



The Knight 15 Watt All-Purpose Amplifier has plug-in input for high impedance magnetic phono pickup. May be hooked up instantly by means of convenient pin tip leads. See our listing of new special portable phonograph above at left.

Take advantage of ALLIED'S attractive Time Payment Plan. See table on page 76 for attractive terms. You can use these of new special portable phonograph and earn while you pay. **81**



The new static-velocity Velotron Microphone—features exceptional sensitivity, wide range, identical attractive design and compact size. Has unusually fine tonal sensitivity.



Latest Velocity Microphone—exceptionally suited for orchestral and solo work. Has exceptionally fine quality on both voice and music. A fine new mike.



Bruen Sound Cell Microphone—features 360 degrees pickup—compact size—has broadcast studio quality—ideal for group and choral work.

Here are the Latest Practical Low Cost INTERCOMMUNICATION SYSTEMS



The splendid new Knight Intercommunication Sound Systems described on this page will adequately serve modern businesses, homes and institutions, providing instant communication between two or more points with outstanding tonal clarity and power. These systems save time and money and will pay for themselves many times over. They are ideal for:

Business Offices
Private Residences
Stores
Factories
Clubs & Lodges
Parking Lots

All Schools
Hospitals
Weightmasters
Garages
Newspapers
Brokerage Offices, etc.

COMPLETE 2 WAY SYSTEM

Here is an entirely new Knight Intercommunication Sound System with distinct advantages. Permits instant automatic direct communication between two (or more) points with excellent volume and clarity. May be used between offices or between rooms and floors in homes and offices; suitable for paging and calling in factories, schools and hospitals, or for conversation between store and stockroom, house and garage, etc. The complete standard system as illustrated consists of one compact station unit (7" x 7 1/2" x 3 1/2") and one central unit (11 3/4" x 7 1/2" x 6"), containing amplifier and tubes, (shown at left above) with 50 feet of transmission cable with plugs at each end. Each station unit is made up of a high grade permanent-magnet combination speaker-microphone housed in an attractive walnut cabinet, with "Talk-Listen" switch. The amplifier unit uses 1-6C6, 1-25L6, 1-25Z5, and 1-Ballast tube and operates on 110 Volts, either A.C. or D.C. Installation can be made in a few minutes by simply plugging in. Easy to operate. You merely press the switch lever to talk and release it to listen. No need to shout—just speak normally. Tone quality is perfectly natural. Additional station units may be added as desired up to a total of five for "common talk" operation (all stations working simultaneously).

- B1200, Complete Knight Intercom System including** **\$2395**
1—Station Unit, 1—Central Unit, with tubes, 50 feet of cable and polarized connecting plugs and instructions.
List. \$46.00. **YOUR PRICE**.....
- B1201, Additional Station Unit with 50 foot cable and plugs.** **\$3.95**
List. \$18.00. **NET EACH**.....
- B1202, Additional 50 Foot Cable and Plugs. NET EACH**..... **\$3.85**



New SUPER-SELECTIVE SYSTEMS Up to 10 Stations May Be Used

STANDARD SUPER-SELECTIVE SYSTEM

This is a new private Intercommunication System especially desirable for use in executive offices, institutions, etc. Permits direct two-way private communication between any two stations. Any group of two stations may converse privately while another group of two stations is also in private conversation at the same time, without any interference or over-hearing between these groups. The Knight Super-Selective System assures absolute privacy. Any station in the system may converse instantaneously and at will with any other station, with no interference or eaves-dropping from any of the other units. The Knight Super-Selective System may consist of from two to ten self-powered Station units (illustrated at left), with any amount of desired cable to connect all units. Each Station unit contains an A.C.-D.C. 4 tube amplifier using the newest Beam Power tubes. Full range audio system assures absolutely natural voice quality; special filter circuit eliminates all trace of hum. Each Station unit also incorporates a combination P. Speaker-crochophone of a newly-perfected design; also has indicating bull's-eye, volume control, permit "on-off" switch and noiseless 10-position Station Selector Switch. This Switch permits instant selection of any Station in the System. Operation is extremely easy and convenient. Simply set the selector switch for the desired station—press streamlined "talk-listen" lever to speak and release to listen. The Knight Super-Selective Systems are designed for extreme flexibility. You may begin with two or three Stations and add any number up to 10. Each Station Unit is built into attractive walnut case, 11 1/2" x 7 1/2" x 6"; with beautiful hand-rubbed finish. Each Station Unit is equipped with 6 foot multi-conductor cable with color-coded junction box and terminal strip assembled. Simply connect junction boxes by means of cable listed below. Installation of the Super-Selective System is easily and quickly accomplished.

- B1200, Complete Knight Super-Selective Station Unit** **\$2295**
described above, with tubes, 6 foot cable, junction box and instructions, ready to install.
List. \$46.00. **YOUR PRICE EACH STATION**.....
- (Up to 10 of these stations may be used.)
- B1202, Multi-conductor color-coded Connecting Cable for inter-connecting above Super-Selective Station Units. PER FOOT**..... **10c**
PER 100 FEET..... **\$9.28**

DE LUXE SYSTEM WITH "PRIVACY" EARPHONE

Exactly the same type of System described above but is equipped with sensitive earphone. Assures the complete privacy required by busy executives. Call comes through over operation but conversation is instantly and instantly upon removal of earphone from hook. When using earphone, it is not necessary to operate "Talk-Listen" switch; conversation is carried on exactly as over telephone.

- B1201, Complete Knight De Luxe Super-Selective Station Unit** **\$2975**
as described, with earphone, tubes, 6 foot cable, junction box and instructions.
List. \$59.50. **YOUR PRICE EACH STATION**.....
- B1202, Multi-conductor color-coded Connecting Cable. PER FOOT**..... **10c**
PER 100 FEET..... **\$9.28**

In many installations it is ideal to make up the System with combinations of Standard Station Units coupled with several De Luxe Earphone Units strategically placed where they are needed.



Knight PORTABLE SOUND SYSTEMS

18 WATT High-Gain SOUND SYSTEM

An entirely new, completely portable full 18 watt public address system of exceptional power and wide-range fidelity. Uses the new type dual-diaphragm Astatic Crystal Microphone. Designed especially for use by orchestras and lecturers, for demonstration purposes, funeral parlors, churches, political meetings, etc. Complete in every detail. Unusually portable, compact and convenient. Entirely self-contained in a single carrying case, 9 1/4" x 18 1/4" x 18 1/4". Weighs only 45 lbs. complete. The Knight 18 Watt Portable Sound System is also arranged for phonograph input. (See page 85 for suitable portable phonographs.) It is provided with individual volume controls for phonograph and microphone permitting blending or fading in any degree desired. Tone control for bass or treble emphasis is also incorporated. For value, completeness, ready portability, and highest tonal fidelity, the Knight 18 Watt Portable Sound System is unrivalled.

WITH DUAL-DIAPHRAGM CRYSTAL MIKE

The new dual-diaphragm Astatic Crystal Microphone is used in the Knight 18 Watt Sound System. This high quality microphone is non-directional, picking up sound from any angle. It has an exceptionally fine frequency response from 20 to 10,000 C. P. S. The four-stage amplifier develops a remarkably high gain of 115 db. to utilize the crystal microphone to fullest advantage. Frequency response is essentially flat from 50 to 10,000 C. P. S. The full 18 watt output from the circuit is assured by the use of the following tubes: 1—6C6, 2—6A6, 2—6B5, 1—5Z3. The powerful Knight 12 inch Electro-dynamic speaker handles output adequately with splendid tonal response. The Knight 18 Watt Portable Sound System is as much distinguished for its attractive appearance as for its performance. The new 18 Watt Amplifier is in a pleasing brown wrinkle-finished metal case with harmonious chromium and brown control panel and transformer case trim. Really modern in design.

COMPLETE 18 WATT SYSTEM

The complete Knight 18 Watt Portable Sound System includes: 1—18 watt high-gain amplifier; 1—dual diaphragm crystal microphone mounted on 10 inch banquet stand with 25 foot cable and polarized plug; 1—12 inch Knight dynamic speaker with 30 foot cable and plug. Entirely self-contained in a single sturdy carrying case. Complete with tubes and instructions. For operation on 110 Volts, 60 cycles AC. Ship. wt. 51 lbs.
E12023. List. \$130.00.
CASH PRICE COMPLETE.....

\$64.50

(Extra speaker in portable case is available at \$9.75. The above system can also be had with a Knight floor stand instead of banquet stand at no extra cost.) Make your P. A. order total up to \$75 or more and buy your Knight sound equipment on our convenient time payment plan.



Knight 8 WATT STANDARD SOUND SYSTEM

A compact new portable sound system of modern design. Delivers a full output of 8 watts for dependable inexpensive performance. Very suitable for use in store demonstrations, small halls, churches, club-rooms, sales talks, side-shows, etc. Has real advantages in compactness and completeness. The entire system is completely contained in a single leatherette-covered carrying case, 8 1/4" x 12 3/4" x 16 1/4". Weighs only 24 lbs. Includes the following: 1—Knight "Little Giant" Standard Amplifier; high quality carbon microphone in desk stand with 25 foot cable and polarized plug; 1—8 1/2" electro-dynamic speaker mounted in case, with 25 foot cable and polarized plug. Uses the latest new metal tubes throughout for complete stability and for space economy. No external batteries or mixers are required; microphone transformer and current supply are built in. Has input for phonograph as well as for microphone.

COMPACT—PORTABLE—INEXPENSIVE

The Knight 8 Watt Standard Portable System is an unusual value in a high quality small portable public address system. Has unusual modern features. Provided with individual volume controls for microphone and phonograph to permit "mixing" action. Tone control allows accentuation of bass or treble as desired and compensates for varying acoustical conditions. All controls are conveniently grouped on the modern attractive front panel which is strikingly finished in chromium with harmonious brown enamel trim. Full 8 watts output and a minimum of distortion are assured by the use of the powerful new Electron Beam Power 6L6 metal output tube. A 6J7 is used as voltage amplifier; with 5Z4 as rectifier. The finest quality double-button carbon microphone is used for good fidelity pickup; mounted in a 9 inch desk stand for convenient use. The full 8 1/2 inch electro-dynamic speaker handles volume adequately with exceptionally fine tone quality.

COMPLETE 8 WATT STANDARD SYSTEM

The Knight 8 Watt Standard Sound System comes complete in the sturdy attractive carrying case illustrated. Includes: 1—Knight 8 watt Metal Tube Amplifier; 1—high quality carbon microphone in desk stand with 25 foot cable and polarized plug; 1—Knight 8 1/2 inch electro-dynamic speaker with 25 foot cable and polarized plug—all in a single unit carrying case. For operation on 110 volts, 60 cycles AC. Shipping weight, 40 lbs. This high quality low-cost Knight 8 Watt Portable Sound System has hundreds of useful applications.
E12010. Complete with tubes.
List. \$60.00. YOUR PRICE.....
See Page 85 for suitable Portable Phonograph.

\$29.75



Knight Low-Priced INSTITUTIONAL SOUND SYSTEMS

EFFECTIVE SOUND DISTRIBUTION FOR SCHOOLS, HOSPITALS, HOTELS, ETC.

ALLIED now makes available a complete line of custom-built Sound Systems designed to meet the sound distribution needs of schools, hospitals, hotels, department stores, etc. This equipment is the product of considerable experience in filling the special sound needs of innumerable institutions, both large and small. The new Knight Institutional Sound Systems are distinguished for their completeness, their adaptability for future expansion, their outstanding quality and their low cost. Every conceivable institutional sound need can be covered by this type of Knight system. In schools, it is invaluable in supplementing the regular educational program by means of radio and record distribution. It has further advantages for assembly work, for individual class room contact, for alumni, etc. In hospitals, hotels, etc., perfect radio and record distribution is available for patients and guests. Each Knight System is hand-built to meet the requirements of the institution for which it is intended. It is built into an attractive wood cabinet of harmonious design to blend with any setting. While the size of the system may vary, basic built-in equipment includes a powerful high quality amplifier, all-wave radio tuner, 2 speed phonograph, program selector panels, speaker selection and distribution controls, volume level indicator, and monitor speaker. A high quality Crystal Microphone is included and Jensen wall type peridynamic speakers are supplied. Knight Institutional Sound Systems are available with single or dual channel input, to operate practically any number of speakers. "Talk-back" or "monitor" feature may also be included if desired. There is a Knight Sound Distribution System for every need and requirement.

KNIGHT DE LUXE 10 SPEAKER SYSTEM

A typical Knight Institutional Sound System is illustrated at the left. It is available in basic form for sound distribution to 10 rooms. (Additional channels and speakers may be added.) The complete system includes: All-Wave radio tuner; dual-speed phonograph; program selector panel; ten speaker control panel; high quality 18 watt high-gain amplifier; monitor speaker—all built into a massive cabinet of selected wood hand-rubbed to a splendid walnut finish. An Astatic Dual-diaphragm Crystal Microphone with banner stand and 25 foot cable is included together with 10—Jensen Permanent Magnet wall-type inclined-baffle room speakers. Supplied complete with tubes. For 110 volts, 60 cycles A.C. Less speaker cables.

\$12051. Complete 10 Speaker System as described. YOUR PRICE.

\$375⁰⁰

We can supply custom-built Sound Distribution Systems designed to meet the requirements of any institution. We are prepared to make complete recommendations and to supply suitable equipment at lowest prices to meet any institutional sound requirement, regardless of size.

KNIGHT TRANSCRIPTION REPRODUCER AND RECORD PLAYER

This fine new instrument answers the demand for a portable, versatile, high-quality transcription reproducer and record player. Meets the needs of schools, broadcast studios, government agencies, advertising agencies and all other institutions and services requiring good fidelity reproduction of all types of transcriptions and recordings. Consists of a built-in amplifier unit for 110 Volts AC or DC operation which has an output of 4 watts at a universal high-grade dual-speed Green Flyer motor with 12-inch turntable which operates from 110 Volts, either AC or DC; a 12-inch Astatic Crystal pickup which will handle all 8, 10 or 12-inch recordings as well as 16-inch transcriptions; an 8-inch high-fidelity permanent-magnet speaker with 25-foot cable in removable front cover—all contained in a single sturdy portable leatherette-covered carrying case, 19 3/4 x 11 3/4 x 14". With handle.

PLAYS 10" & 16" RECORDS ON 110 V. AC OR DC

The new Knight Transcription Reproducer and Record Player has been designed for maximum versatility in operation. It especially answers the need for reproduction of recorded advertising or educational programs on 16-inch discs and is also very suitable for the high-grade reproduction of all standard recordings. The universal character of both amplifier and phonograph equipment makes the Knight Transcription Reproducer suitable for use on any 110 volt line, AC or DC. The amplifier has been especially developed to give maximum fidelity with the Astatic Crystal pickup and has a scratch-filter built in for elimination of surface noise. The latest Beam Power Tubes are employed for maximum output on DC as well as AC. The amplifier has a gain control for accurate volume-setting and is equipped with Tone Control which permits accentuation of bass or treble ranges as desired. The dual-speed phono motor is equipped with speed regulator, speed-shift lever (33 1/3 or 78 R.P.M.), and AC-DC switch. All controls are grouped conveniently on top panel of portable case.

\$10082. Knight Transcription Reproducer complete as described. YOUR PRICE.

\$54⁵⁰



Illustrated at right is the handsome and efficient wall-type Jensen speaker which is noted for its excellent fidelity and fine coverage. This type of high-fidelity speaker is perfectly matched to the Knight System described above at right.





ELECTRIC PORTABLE PHONOGRAPHS

LOW-COST SINGLE-SPEED MODEL

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 flat type magnetic pickup which has excellent frequency response. Pickup cord is equipped with convenient phone tip ends. Includes built-in volume control. Has needle cup. The entire assembly is housed in a compact, sturdy leatherette-covered case which measures 15 3/4" x 13 3/4" x 4 1/4" open; 15 3/4" x 13 3/4" x 2 7/8" closed. Leather carrying handle is securely riveted on top. Entire unit is light in weight; compactly built for easy portability. Includes approved 6 foot cord and plug. For operation on 110 Volts, 60 cycles, A.C. Shpg. wt., 29 lbs.

\$13.65

B10080. YOUR PRICE.....

HIGH GRADE DUAL-SPEED MODEL

Essential equipment for sound systems. Also suitable for use with any radio set arranged to accommodate a high impedance phonograph. Equipped with the finest self-starting dual-speed (78 and 33 1/2 R.P.M.) heavy-duty phonograph motor with weighted, balanced 12 inch turntable. Motor has speed-regulating and speed-shift levers. Incorporates the latest Webster high-fidelity magnetic pickup with built-in volume control. Has pickup cord with convenient phone tip ends. Comes in handsome black leatherette-covered case with metal corners and rubber feet. Has slip-type hinges which allow cover to be removed. Measures 17 1/4" x 13 3/4" x 9". Equipped with leather carrying handle which will not loosen or pull off. Fills every requirement for high quality, portable phono equipment. Includes approved 6 foot cord and plug. For operation on 110 Volts, 50-60 cycles, A.C. Shpg. wt., 36 lbs.

\$22.65

B10081. YOUR PRICE.....

THESE PORTABLE ELECTRIC PHONOGRAPHS ARE ESPECIALLY SUITABLE FOR USE WITH ALL KNIGHT SOUND SYSTEMS



PACKARD AUTOMATIC RECORD CHANGERS

A completely dependable Automatic Record Changer; two speed type; will play either 78 or 33 1/2 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. Available with either high impedance magnetic pickup or with crystal pickup, either type assuring the very best fidelity of reproduction. For 110 Volts, 60 cycles A.C. operation. Available as mechanism only or in portable case. See below for listings.

MODEL K

Mechanism only, less case. Will play eight 10" records automatically on one side; 12" records may be played manually. Requires mounting space 12" long, 5 1/4" high, and 12" wide. For 110 Volts, 60 Cycles. Wt. 26 lbs.

B10082. With Magnetic Pickup. \$30.00
B10088. With Crystal Pickup. List, \$39.00. EACH

MODEL L

Mechanism only, less case. Size 14" wide x 15" long x 5 3/4" high. Will play eight 10" records or seven 12" records automatically. Highly dependable in operation; will give excellent tonal response. Shpg. wt. 26 lbs.

B10087. With Magnetic Pickup. \$34.20
B10088. With Crystal Pickup. List, \$37.00. EACH

IN PORTABLE CARRYING CASES

The Packard Record Changer mechanisms, as listed above, are also available in attractive black leatherette-covered carrying cases, of sturdy, durable design and construction. Ideal for use with portable public address systems, or for demonstration purposes.

MODEL K

B10090. With Magnetic Pickup. \$34.95
B10091. With Crystal Pickup. EACH.

MODEL L

B10092. With Magnetic Pickup. \$39.15
B10093. With Crystal Pickup. EACH.



HIGH-QUALITY LOW-COST KNIGHT PRE-AMPLIFIERS

KNIGHT A.C. PREAMPLIFIER

A new broadcast-station-quality A.C. operated pre-amplifier. Completely built into one compact steel case. Designed to amplify the output of crystal, velocity, dynamic or other low-level microphones to a point where they can be fed into mixing circuits, telephone lines or any low-gain main amplifier. Input is arranged for 50, 200 or 500,000 ohms to match the output of any type of microphone. A volume control is incorporated for convenient operation. Output is to 200 ohm line. Uses 1-6C6 as S.G. Amp.; 1-6C6 as Triode-Amp.; uses 84 as rectifier. Amplifier component parts are carefully shielded and mounted on sponge-rubber brackets. Has a gain of 60 db. and a flat response from 30 to 12,000 cycles. Hum is negligible. Case size, 6 3/4" x 8 3/4" x 11 1/4". Shpg. wt., 33 lbs. For 110 Volts, 60 cycles A.C. Complete with tubes.

B12056. YOUR PRICE..... \$44.25

KNIGHT 2 CHANNEL A.C. PREAMPLIFIER

Modernize your carbon mike amplifier—use the latest Crystal or high-impedance Velocity Microphones for better reproduction. This **Knights 2 Channel A.C. Preamplifier** is designed to pre-amplify and mix low-level high impedance microphones. Each microphone has a separate two stage channel with volume control. Especially adaptable for crystal or high impedance velocity microphones. Permits you to use these high quality low level microphones with your present low-gain amplifier. Each channel uses 1-6C6 tube as S.G. Amplifier, and 1-6C6 as Triode Amplifier; with 84 rectifier. Gain is 64 db.; hum is negligible. Output is 200 and 500 ohms. Has essentially flat frequency response from 40 to 10,000 cycles. Complete with tubes. For 110 Volts, 60 cycles. Steel case size, 12" x 6 3/4" x 13 1/4". Shpg. wt., 21 lbs.

B12057. YOUR PRICE..... \$22.50

See Pages 89-91 for a complete selection of the finest Velocity, Crystal and Dynamic Microphones ideally suitable for use with the Knight Pre-Amplifiers described above.

PORTABLE CASES, BAFFLES & HORNS

PORTABLE CASES FOR AMPLIFIERS, SPEAKERS & PHONOGRAPH



FOR KNIGHT 8 WATT SOUND SYSTEMS

A ruggedly-built carrying case. Particularly designed for easily carrying either of the two Knight 8 Watt Sound Systems. May also be used for other small amplifiers or similar equipment. Laminated plywood construction with metal reinforced corners. Attractive black leatherette covering. Has shielded grille for speaker. Metal plate and adjustable web strap for holding microphone and desk stand. 17" high, 12 1/4" wide and 8 1/2" deep.

B12515.
NET.

\$5.95



SINGLE SPEAKER CASE STURDY - LOW PRICED

An attractive portable carrying case. Permits easy installation of any 12" or 12 1/2" inch dynamic speaker. Ideal for use with portable sound systems, or for temporary speaker installations in the field. Speaker opening is fully protected by grille cloth with protective acetate screen backing. Snap-on back is fitted with easy acting trunk clasp. Exceptionally rugged. Built for many years of service. Non-tiring carrying handle on top. Measures 13 1/2" x 13 1/2" x 9". Sturdily made.

B12518.
NET.

\$3.30



FOR KNIGHT 18 WATT AMPLIFIERS

An unusually fine portable amplifier case. Designed for use with the Knight 18 Watt High Gain Amplifier for portable work. It can also be used to carry other equipment of similar type and size. Leatherette-covered. Removable, securely fastened carrying handle; bottom fitted with rubber feet. Has shielded grille for 12" speaker, protected by roll-down cover with snap fasteners. Web straps provided for holding desk type mike stand. 18 1/2" x 17" x 9 1/2".

B12516.
NET.

\$7.95

DUAL SPEAKER CASE HANDY - WELL BUILT

Permits easy carrying of two 12" or 12 1/2" speakers. Case divides into two separate units. Trunk clasp hold units together firmly. Heavy plywood construction with leatherette covering. Handy carrying handle. Speakers mounted inside; cones are protected by steel wire mesh covered with grille cloth. Sections are specially designed to serve as baffles for speakers while they are in operation. Extremely compact and easily portable when closed, measuring 21 1/4" high, 13 1/4" wide, 8 1/4" deep. Wt. 7 lbs. A really nice case value.

B12519.
NET.

\$5.95



For Knight 25, 35, & 60 Watt Amplifiers

An exceptionally rugged carrying case for use with the Knight 25, 35 or 60 Watt Amplifiers. Strong and rigidly constructed laminated plywood used to combine strength with light weight. Durable black leatherette covering. Case covers amplifier and fastens at bottom. Has sturdy leather carrying handle.

B12517.
NET.

\$7.25

HANDY NEW PORTABLE PHONOGRAPH CASE

Handsome black leatherette-covered carrying case for portable electric phonographs. Sturdy plywood construction. Convenient carrying handle. Polished corners and clasp. Rubber feet protect your furniture. Remountable cover. Motor board is drilled for Green River motor, needle cups, and volume control. Measures 17 1/2" x 13 1/2" x 9". An essential portable case for portable hi-fi. Suitable and home phono installations.

B12520.
NET.

\$5.95



WEATHERPROOF BAFFLES DIRECTIONAL-DEMOUNTABLE



22"x23" BELL.
2 1/2" Deep.
Directions. Weatherproof. Speaker housing measures 15 1/2"x15 1/2"x11 inches. Type A is for speakers with 10 to 12 inch cones. Type B is for 7 to 9 inch cones.

LESS SPEAKER HOUSING
B10270. Type A. \$5.10
B10271. Type B.
YOUR PRICE, EACH

WITH SPEAKER HOUSING
B10272. Type A. \$6.10
B10273. Type B. EACH

Ideal for use with any standard dynamic speaker; will greatly increase tonal fidelity and enlarge sound coverage. Will materially improve large speaker installations. Durable black leatherette covering. Fastens at bottom. Has sturdy leather carrying handle.

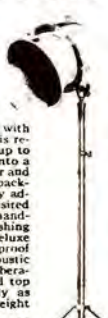
STANDS AND MOUNTINGS FOR ALUMINUM BAFFLES

The ideal sound accessory combination for all portable speaker requirements. Consists of the heavy gauge Deluxee aluminum baffle shown at the right together with a sturdy adjustable stand. Stand is fully adjustable at heights ranging from 46" to 78". Equipped with locking clutch. Tapered legs with 36" spread stand firmly. This reliable stand will safely hold up to 250 lbs. May be collapsed into a compact unit 2 1/2" in diameter and 39" long for easy carrying or packing. Swivel feet permits easy adjustment of baffle to any desired position. Entire stand is hand-specially finished in non-tarnishing chromium. Baffle is of Deluxee type complete with weatherproof cover. Dome is lined with acoustic felt padding to prevent reverberation. Both stand and swivel top are available separately as listed below. Shipping weight complete, 20 lbs.

B10290. Complete Unit as described: Deluxee Baffle, Stand and Swivel unit. \$21.10

B10291. Stand Only. \$11.47
11 lbs. YOUR PRICE

B10292. Swivel and saddle. \$2.06
2 lbs. YOUR PRICE



ALUMINUM BAFFLES WEATHERPROOF MODEL

Deluxee baffle of heavy 18-gauge aluminum. Rugged, yet readily portable. Has acoustically correct design. Flare is 16 1/2" diam. 9 1/2" deep. Bell housing 10" deep. Is heavily padded to eliminate reverberation. May be bolted to stand or swivel shown at left. Has weatherproof snap-on cover and protective metal screen for cone opening. Use reducer rings listed below for speakers smaller than 12".

B10282. \$7.76

STANDARD MODEL

B10283. Same sturdy baffle as above, but less weatherproof cover and absorbent felt lining in dome. \$5.28

B10284. TRUMPET FLARE only. For mounting on front of portable cases, etc. 16 1/2" dia. x 9 1/2" long. Wt. 3 lbs. \$4.26

B10285. Weatherproof Cover. 82c
YOUR PRICE

B10280. REDUCER RINGS. For reducing size of mounting. Six 8" speaker size when ordering. EACH. \$3c



FLARE TYPE-DEMOUNTABLE



30"x18" BELL.
14" Deep.

case. Housing case aids in directing sound forward for large area coverage. Type A is for speakers with 10 to 12 inch cones. Type B is for 7 to 9 inch cones. Wt., 10 lbs.

LESS SPEAKER HOUSING
B10276. Type A. \$3.95
B10277. Type B.
YOUR PRICE, EACH

WITH SPEAKER HOUSING
B10278. Type A. \$6.80
B10279. Type B. EACH

Semi-directional, weatherproof baffle horns. Finished in brilliant aluminum. Will improve the frequency response, increase the efficiency, and direct the sound distribution of any dynamic or magnetic speaker. Easily demountable. Supplied with or without speaker housing.

AUTO TOP & WALL MOUNT WITH SWIVEL

For easy mounting of aluminum baffles on top of Auto or on the wall. Sturdily constructed with 7 1/2" cast base. Finished in aluminum. Swivel permits mounting baffle for best sound distribution. Stand is 12" high. Wt. 6 lbs. With saddle. \$2.88



INCLINED SPEAKER BAFFLES

Attractive walnut-finished wall type speaker baffles. Ideal for mounting either 8" or 12 inch speakers. Especially suited to centralized radio and television installations. With gold and black grille cloth. For wall or table mounting. \$3.50

B10287. For 8" Speakers. \$3.50
YOUR PRICE
B10288. For 12" Speakers. \$4.95
NET



P.A. SPEAKERS • HORNS • UNITS

KNIGHT AUDITORIUM DYNAMIC SPEAKERS

Powerful 12 inch Auditorium Dynamic Speakers designed to reproduce large audio power with absolute fidelity. Easily handles 10 to 15 watts of power without distortion. Heavy, pressed steel, draughtman construction assures long life. Satin-black chrome finish. Has one piece pressed cone with new 3 point spider suspension; voice coil has inside diameter of 1 1/4 inches. Overall height, 1 3/4 inches. Depth, 7 inches. Easy to mount. Supplied in various field resistances or in an A.C. operated type using an 80 rectifier. Voice coil has 8 ohms impedance. All speakers are supplied less output transformer. Knight Universal Output Transformer tapped to match any power tube combination is listed below.

EXCELLENT QUALITY

These ruggedly-built dynamic speakers are ideal for every installation where a powerful full-toned reproducer is required. Use them for replacement purposes, for PA systems, for extension speakers, etc. All models have heavy fields and oversized bobbings giving a higher field strength, enabling the speaker to handle large power without danger of overloading. Cone and voice coil are designed to give high quality wide-range frequency response when operated at any audio level up to 15 watts.

Write for prices for Knight Auditorium Dynamic Speakers equipped with any field you specify and with special output transformer for Class "B" or Class "AB" operation.

Portable cases for Knight Auditorium Dynamic Speakers are listed to the left on page 35. When ordered together, speakers and cases will be assembled at an extra charge.

FOR ALL P. A. SYSTEMS

Especially designed for heavy-duty use. Handle voice and music brilliantly. These Knight speakers are ideal for use either indoors or outdoors.

B12525. 6 Volt Field. (4 Ohm.) Storage battery excitation.

B12526. 1000 ohm Field.

B12527. 2500 ohm Field.

B12528. 4000 ohm Field.

YOUR PRICE EACH..... \$5.95

B1100B. Knight Universal Output Transformer. Matches all output tube circuits.

NET..... 95c

NET.....

If ordered with speaker, specify output tubes and how connected.

B12529. 12-inch Auditorium Dynamic for 110 volt. 5 cycles, A.C. Complete with heavy-duty, humless field supply; less 80 tube.

NET..... \$8.75



CINAUDAGRAPH "Magic-Magnet" SPEAKERS

Unique compact design and construction; cone and voice coil are one integral assembly. Voice coil cannot become off-center. Require no external excitation. Fine power-handling ability and frequency response.



B10410. MODEL MA 6-3.

5" Type. Handles 4-8 watts.

Diam., 4 1/4"; depth, 2 1/4";

Voice coil, 3/4"; ohms, 8.

Wt., 1 1/2 lbs.

NET..... \$3.09

B10411. MODEL EZ 8-7.

7" Type. Input, 5-8 watts.

Diam., 3 1/4"; depth, 3 3/4";

Voice coil, 1"; ohms, 8.

NET..... \$4.41

ohms. Wt., 3 lbs. **NET.....**

B10412. MODEL EZ 8-10.

7" Type.

Normal input 5-8 watts. Size as above, but has larger, stronger magnet; has added sensitivity. Depth 4 1/4". Wt., 5 lbs.

NET..... \$6.17

B10413. MODEL EZ 10-7.

8" Type. Input, 8-10 watts.

Overall diam., 10 1/4";

depth, 4". Voice coil, 1" diam., 6 ohms. Resonant frequency, 80-110 CPS.

NET..... \$5.29

Wt., 3 lbs. **NET.....**

B10414. MODEL NZ 10-10.

10" Type. N2 10 with larger and stronger magnet. Handles 8 to 10 watts continuously. Depth, 4 1/4".

Overall diam., 10 1/4". Wt., 5 1/2 lbs.

NET..... \$7.20

B10415. MODEL FY 12-12.

12" Type. Handles 15-18 watts. Diam., 12 1/4"; depth, 4 1/4".

Voice coil, 1 1/4"; ohms, 6.

Wt., 10 lbs.

NET..... \$16.17

B10416. MODEL HW 13-13.

12 1/2" Type. A true high fidelity speaker. Handles 30-35 watts. Diam., 12 1/2"; depth, 6".

Voice coil, 2 1/4"; ohms, 4.

Wt., 43 lbs.

NET..... \$35.87

B10417. MODEL SU 18-12.

18" Type. The finest reproducer available for all types of electrical installations. Handles 20-25 watts. 18 1/2" dia. x 7 1/4" depth.

Voice coil, 3/4" diam.; 6 ohms. Wt., 78 lbs.

NET..... \$67.62

OXFORD SPEAKERS



EXPONENTIAL HORNS & UNITS

A new exponential type of indoor or portable horn. Constructed of heavy-gauge spun-aluminum with chrome finished steel shell housing; acoustically designed and treated to prevent metallic sounds. Complete assembly is impervious to all weather and atmospheric conditions. Driver units are 6 1/2" in diam. and have heavy-duty 5" diaphragms with 6 ohm voice coils; will handle up to 15 watts safely. Units are available with either FM or DC-excited fields. Horn has adapter for use on all standard horn stands; bell diam. 20", length 20", over-all length approximately 35". Light weight makes this complete unit ideal for mobile or portable sound systems. Shpg. wt., 28 lbs.

B10438. Equipped with P.M. horn unit. List, \$40.30. **NET..... \$23.81**

B10435. With 6 volt horn unit.

B10436. With 1000 ohm unit.

B10437. With 2500 ohm unit.

L.M.L. \$36.00. NET EACH..... \$21.17

B10440. Horn only less unit. **NET..... \$14.70**

B10441. Heavy-duty chromium-plated collapsible floor stand with folding base. Maximum height, 78". Minimum height, 46". **NET..... \$11.47**

B10442. Weatherproof Cover. A heavy, rubberized fabric flare cover for wet weather use. **NET..... \$2.06**

AIR COLUMN HORNS AND UNITS

The famous "Cinaudagraph" air column units are so constructed as to withstand the damaging influence involved in outdoor applications. Wing nuts are provided for easy removal or attachment of unit to horn. Standard handle-type supporting bracket permits permanent ceiling or portable stand mounting. Horns are of spun aluminum.



AIR COLUMN UNITS ONLY

B10420. MODEL FYA. 8 INCH. This unit is capable of carrying steady power input of 15 watts and surges of power up to 20 watts. Actuates an 8" diaphragm with 6 ohm 1/4" voice coil. Binding post connectors. Ideal for use with FM horn listed at left or with similar horns. Less transformer.

Shipping Wt., 11 lbs. **NET..... \$18.23**

B10421. MODEL HWA. 10 INCH. This model will handle surges up to 30 watts but is rated for 25 watts continuous operation. 10 inch diameter, 6 ohm 1/4" voice coil unit. Will operate with either the HU or SW Horns listed at left.

Less trans. Wt., 25 lbs. **NET..... \$41.16**

B10422. MODEL SUA. 10 INCH. This unit is rated at 30 watts continuous duty and surges up to 40 watts peak. Recommended for large installations such as stadiums, outdoor fairs, large auditoriums, etc. 6 ohm 1/4" inch voice coil. Less transformer.

Shpg. wt., 42 lbs. **NET..... \$53.80**

HORNS ONLY

B10425. MODEL HU. 21" Bell, 20" Air Column. For use with HWA or SUA units. **NET..... \$14.41**

B10426. MODEL FX. 18" Bell, 18" Air Column. For use with FYA unit. **NET..... \$18.82**

B10427. MODEL SW. 32" Bell, 30" Air Column. For use with HWA or SUA units. **NET..... \$31.16**

SUPPORTING BRACKETS

Dual-purpose handle-type. Wt., 6 lbs.

B10430. For FVA unit..... **\$2.06**

B10431. For HWA unit..... **2.65**

B10432. For SUA unit..... **3.38**

UTAH DYNAMIC SPEAKERS

HEAVY DUTY

Handles 15 watts maximum input.

Suitable for PA work.

Specify universal output or 500 ohm transformer. 14 lbs.

A.C. SPEAKERS

B12534. 8" or 110 Volt, 80 cycle A.C. Specify transformer desired.

NET..... \$11.17



MODEL G2

Designed especially for heavy-duty operation in all field conditions. It is completely enclosed in a heavy-duty cabinet.

Over-size field excites 18 watts excitation; equipped with 6 ohm 1/4" inch and heavy 1 1/4" pole piece. Will handle 18 watts continuously. 25 watts peak. Overall height, 12 1/4", overall depth, 6 1/4".

Voice coil, 8 ohms at 400 cycles.

Transformer, 2500 ohm field.

B12535. 2500 ohm field.

B12537. 1000 ohm field. EA.

NET..... \$9.95

DC SPEAKERS

For sets with built-in field supply.

B12530. 6 Volt Field. **NET EACH..... \$6.76**

B12531. 1000 Ohms.

B12532. 2500 Ohms.

B12533. 4000 Ohms.

OXFORD DYNAMIC SPEAKERS



For many years the choice of leading set manufacturers; now available to the Custom-builders and Servicemen. In our corporate many features of design evolved from years of research in the speaker field.

Ideal for replacing speakers of limited frequency response in radio sets, or for public address installations. Have new curvilinear cones with 8 ohm 1/4" inch voice coil. Will handle 12 watts continuously, 15 watts peak. 1 1/4" h.; 8" d. Shpg. wt., 10 lbs. **NET..... \$9.70**

B9537. With 6 volt 4 ohm field.

B9538. With 1000 ohm field.

B9539. With 2500 ohm field.

L.M.L. \$16.50. NET EACH..... \$9.70

B9540. A.C. Type. Ideal as extension speaker in P.A. and call systems. For use on 110 volts 60 cycle current. Less 80 tube and output transformer.

List, \$25.25. NET..... \$14.85

JENSEN DYNAMIC SPEAKERS — UTAH —

JENSEN DYNAMIC SPEAKERS

PERMANENT MAGNET TYPES

Speakers of exceptional design and construction. Capacity and fidelity are equal to any electro-dynamic unit. Extremely high sensitivity and efficiency. New permanent and highly magnetized alloy eliminates need for field supply. Ideal for all types of radio and public address systems. Impedance 6 ohms at 400 cycles. With universal output transformer for all output tubes.

5-INCH MODEL PM5-E

An ideal speaker for use with any of the smaller type sets. High sensitivity with good tone quality. Small and easy to mount.

B9680. YOUR PRICE..... **\$3.18**

6-INCH MODEL PM6-C

Especially designed for use where extreme sensitivity and high quality reproduction are desired, as in centralized P.A. systems. Depth only 3 1/2".

B9675. YOUR PRICE..... **\$5.59**

8-INCH MODEL PM8-C

A popular size for use in console type radios, or for call systems, etc. Extremely sensitive, reproduces with exceptional fidelity.

Only 3 1/4" deep.

B9678. YOUR PRICE..... **\$5.88**

10-IN. MODEL PM10-C

Particularly recommended for superior performance in connection with receivers and small public address installations.

B9677. YOUR PRICE..... **\$7.50**

12-IN. MODEL PM12-C

For use with large console receivers, or medium-powered public address systems; will provide exceptional fine tone.

B9678. YOUR PRICE..... **\$9.26**

HEAVY-DUTY 12-INCH MODEL PM12-B

A superior speaker for use with high quality, large sound systems, or wherever high fidelity reproduction at high levels of volume is desired. Equal to finest electro-dynamic speakers.

B9679. YOUR PRICE..... **\$14.85**

JENSEN ELECTRO-DYNAMICS

HEAVY-DUTY MODEL B12-X

A particularly high-quality, high-efficiency 12" dynamic speaker of advanced design. Recommended for use wherever true high-fidelity performance is required. Especially suited to Public Address Systems. New curvilinear cone results in extended high-frequency range. Will handle 10 watts continuously. Equipped with hum-bucking coil and adjustable output transformer, for all tubes. 8 ohm voice coil. Ship. wt., 14 lbs.

B9688. 1250 OHM FIELD. **\$10.14**
B9689. 2500 OHM FIELD.
Lit. \$17.25. YOUR PRICE EACH.....

MODEL "R" DYNAMICS

Famous Jensen dynamic speakers in a new compact style. Features very rugged construction and unusual fidelity of reproduction. With built-in hum-bucking coil. Adjustable output transformer for all tubes.

B9672. 5 INCH DYNAMIC.

3000 ohm field. Lit. \$4.00. NET..... **\$3.35**

B9673. 6 INCH DYNAMIC. **\$3.18**

2500 ohm field. Lit. \$3.40. NET..... **\$3.18**

B9674. 8 INCH DYNAMIC. **\$3.91**

2500 ohm field. Lit. \$6.65. NET.....

NEW JENSEN CONCERT SPEAKERS

A new line of wide-range speakers offering extremely high fidelity, sensitivity, frequency response and efficiency. Unequaled for use in large console receivers, public address systems, auditoriums, and other installations where large coverage must be maintained without sacrifice of the finest quality reproduction. Power-handling capacity is the maximum for specialized speakers. Adjustable output transformer is tapped at 4500, 7000, 10,000, and 14,000 ohms; adjustable line transformer is tapped at 500, 1000, 1500 and 2000 ohms.

12-INCH PM MODELS

Model A12PM. A moderate-priced speaker utilizing the new highly efficient permanent magnet developed by Jensen. No field supply is necessary. Has full frequency response up to 7500 cycles.

B9686. With Adjustable Output Transformer. **\$21.76**

B9686. With Adjustable Line Transformer. **\$21.76**

15-INCH HIGH FIDELITY PM MODELS

Model A15PM. A new oversize permanent magnet dynamic speaker. Combines high fidelity with the ability to handle exceptionally high outputs. Suitable for use with large console radios or with Sound Systems. Adjustable impedance transformers match any tube combination instantly. No field supply required. Maximum depth, 8 1/2"; diameter, 15".

B9687. With Adjustable Output Transformer. **\$26.46**

B9688. With Adjustable Line Transformer. **\$26.46**

18-INCH STANDARD FIDELITY MODEL

Model M18AC. This electrodynamic speaker is designed for the largest public address installations. Has 18 ohm, 2 1/2 inch voice coil. Full reproduction up to 5500 cycles. Impedance, 50-60 cycles.

B9689. With Adjustable Transformer. Ship. Wt., 18 lbs. **\$50.86**

YOUR PRICE.....

UTAH DYNAMIC SPEAKERS

UTAFLEX P.M. TYPES

- No Field Current Supply Needed
- New High Efficiency Magnets
- Priced for the Average Purchase
- Complete Range of Sizes

A complete new line of permanent-magnet dynamic speakers. Popularly priced to fit the budget of the experimenter and public address man and to permit the serviceman to make a handsome profit. A new magnet alloy of special shape and design permits full power-handling ability with wide-range response. Ideal for all purposes including both old and new installations. With universal output transformers as listed.

5-INCH MODEL

Especially designed for small receivers where space is at a premium. Ideal for battery and A.C.-D.C. sets since no field power is required. Output transformer matches all tubes.

B9692. NET..... **\$3.23**

8-INCH MODEL

For use with all types of receivers and small public address systems. Ten watt maximum capacity. Full tone response. Universal output transformer for all tubes.

B9694. NET..... **\$5.00**

6-INCH MODEL

Popular size speaker for experimenters and servicemen. Suitable for use in all A.C.-D.C. and mid-range receivers. Peak rating of six watts. High quality frequency response.

Matches all tubes. **\$3.82**

B9693. NET.....

10-INCH MODEL

Ideal speaker for larger consoles and portables or battery-operated public address systems. Sixteen watt capacity. Full response. Universal output.

B9695. NET..... **\$6.76**

HEAVY-DUTY 12-INCH MODELS

Designed especially for those installations where requirements are for exceptional quality and volume-handling capacity as in high quality radio receivers and public address systems. No field supply is needed and maximum efficiency and tone quality are provided. Output from tubes or line. Line transformer tapped 500, 1000, 1500, and 2000 ohms.

B9696. With Universal Output Transformer. **\$8.82**

B9697. With Universal Line Transformer. **\$8.82**

YOUR PRICE EACH.....

UTAH HIGH FIDELITY REPLACEMENT SPEAKERS

A new line of high fidelity speakers for either replacement or original installations. Workmanship and materials of the highest quality combined with new features of design make these the finest reproducers available at this price range. Solid vibration-proof construction with conservative power handling ratings provide maximum performance far superior to that obtainable from inferior types of speakers.

6 1/2-IN.

MODEL

B9472

\$3.53

8-INCH

MODEL

B9473

\$4.26



A rugged tri-toned small speaker suitable for all replacement purposes. Especially suited for use in A.C.-D.C. and midrange type receivers. Handicap power input of 6 watts, peak 9 watts. Requires 6 1/2 watt field excitation. Voice coil 6 ohms. 87% universal output transformer; 2500 ohm field. Shipping weight, 4 1/2 lbs.

For use in console receivers and small Public Address systems. Has excellent tone quality and will handle full 8 watts normally, 12 watts peak. sturdy rattle-proof cone assembly with 8 ohm voice coil. Supplied with universal output transformer; field coil 2500 ohms. One of the finest 8-inch Electro-dynamics made. Wt., 6 lbs.



10-INCH MODEL

For use wherever exceptionally true reproduction is desired in a medium size speaker. Suitable for console type receivers and small sound systems. Will deliver brilliant reproduction without distortion at full volume. Normal input 9 watts, 12 watt peak. Voice coil 8 ohms; field coil 2500 ohms. With universal transformer. An excellent value in a high-quality powerful Electro-dynamic speaker. Wt. 10 lbs.

B9474. NET..... **\$4.70**

12-INCH MODEL

The ideal reproducer for large console sets. Has a ample power handling ability coupled with the brilliant, faithful reproduction expected only from more expensive speakers. Normal input 10 watts with 15 watt peak. Voice coil 8 ohms. Requires 9 watts field excitation. With universal output transformer. Wt., 12 lbs.

B9475. 1000 ohm field. **\$5.73**

B9476. 2500 ohm field. NET EACH.....

SHURE · RCA Astatic MICROPHONES STANDS

NEW SHURE CRYSTAL MICROPHONES



MODEL 74C "SPHEROID" TYPE

Radically new, absolutely non-directional wide-range crystal microphone of striking appearance. Specially a h a p d small dual diaphragm drives a new type "Grafoil" Bimorph crystal unit. Sound reaches the diaphragm uniformly from an angle through 360°. Excellent frequency response is flat within 5 db. from 40 to 10,000 cycles. Output level, 2 db. Weighs only 7 1/2 oz. 2 1/4 inches diameter. With locking plug and stand adapter having 3/27 thread. **\$22.95**

B2564. List. \$37.50. NET

75B "SPHEROID"

A new non-directional crystal microphone. Acoustically streamlined, with parabolic diaphragm. Genuine Bimorph crystal. 3/27 thread. Output, -60 db. **\$18.82**

B2565. NET

MODEL 720-A "TRI-POLAR" TYPE

A new mike having three different directional characteristics available by means of a 3 point switch. Can be Uni-Directional; wide-angle front pickup, dead at back; Bi-Directional; pickup from front and back dead at sides; or Non-Directional; 360 degree pickup. Wide range response from 40 to 10,000 cycles. Black and chrome finish. 1 1/2" high. Diameter 3/4". Wt. 2 1/4 lbs. With 25 foot shielded cable. **\$23.23**

B2566. NET

LATEST TYPE SHURE MICROPHONE STANDS

A STAND FOR EVERY PURPOSE



MODEL 554B
An inexpensive, high-grade floor stand. Made of steel sections, adjustable from 25 1/2" to 62 1/2". Has automatic friction lock. Case is 10 1/2" in diameter. Finished in black with chromium trim. Top of stem is threaded 3/27. Wt. 8 1/2 lbs. **\$5.88**

B9874. NET

MODEL M554A

An attractive high quality floor stand. Adjustable from 45 to 69". Sections held firmly by Automatic Friction Clutch. 10 1/2" base. Black finish. Stem has 3/27 thread for crystal or velocity mikes. 12 1/2 lbs. **\$7.94**

B9875. NET

MODEL 535C DECK STAND

Moderate stand. Adjustable 7" to 11". automatic friction lock. Black finish; chrome trim. Threaded 3/27. 3 1/2 lbs. **\$3.82**

B9876. NET

SEC BAQUET STAND

B9877. Moderate. Genuine Bakelite. Similar to Model 535C; useful where greater height is needed. Height range, 15" to 22". Black finish. Wt. 4 1/4 lbs. **\$4.41**

NET

UNIVERSAL MICROPHONES

"XX" TWO BUTTON TYPE

Develops truly faithful, natural tone. Has good frequency range. Equipped with Durium diaphragm, pure gold contacts. Ruggedly built. 200 ohms per button. **\$5.88**

B2566. List. \$18.00. NET

MODEL "X" TYPE

B2567. Model "X". Similar in design to above but of single button type. A high quality unit. **\$4.41**

B2569. List. \$15.00. NET

MODEL 70H DIAPHRAGM TYPE

A superior crystal microphone of the diaphragm pressure-actuated type. The special coilover principle employed side in effectively handling music and speech. Output is -50 db. Beautiful cast chromium-plated case. Mounts directly on mike stands having 3/27 threaded shaft, or may be spring-mounted by means of hooks supplied, 3 in. diameter; 1 1/4 in. thick. Supplied complete with 7 foot shielded rubber-covered cable. **\$13.23**

B2567. List. \$22.50. NET

WITH 25 FT. CABLE

Same as the Model 70H listed above but with 25 ft. of shielded microphone cable attached. **\$14.29**

B2568. NET

"MILITARY" TYPE HAND MIKE

These small and compact crystal microphones are designed to fit naturally in the palm of the hand. Only 3/4" high by 1 1/4" thick. Furnished with removable suspension hook and 27 foot rubber-jacketed cable. Shpg. wt. 1 lb. **\$14.70**

B2569. NET

B2565. Same as above but with special on-off switch. **\$15.58**

SHURE ULTRA WIDE-RANGE CRYSTAL MICROPHONES

The new Shure microphones provide reproduction from 40 to 10,000 cycles. Have the highest output level consistent with good fidelity; diaphragm is of high efficiency, acoustically correct design; protected when case is opened, by internal screen. Crystal is moisture-sealed. All models have standard 27 thread for stand mounting and 7 ft. shielded rubber-covered cable.

B2561. Model 702A. Spherical semi-directional type. 3 1/2" overall diameter. Rubber-black finish with chromium trim. Wt. 1 lb. Complete with 7 foot shielded cable.

B2562. Model 700A. Semi-directional type. Spherical arrangement for tilting head. Chromium finish. 3 1/2". Shpg. wt. 2 lbs. Complete with 7 foot rubber-covered shielded cable.

B2563. Model 701A. Grille type case; rubber-covered black screen covers with chromium trim. 3 1/4" x 2 1/4" x 1 1/4". Wt. 1 lb. Complete with 7 ft. cable. **\$14.70**

NET PRICE EACH

ASTATIC CRYSTAL MICROPHONES

MODEL D-2 WATCH CASE TYPE

A small, light crystal microphone of exceptionally good frequency response characteristics. Uses a Grafoil-Bimorph Crystal and dual diaphragm design. Non-directional. Frequency response is flat from 40 to 10,000, with rising characteristics to 10,000 cycles. Output level, -60 db. Case is only 2 1/4 inches in diameter, 1/2 inch thick. Has locking type plug and socket adapter, 3/27 thread. Shpg. wt. 2 lbs. **\$14.70**

B2570. List. \$23.00. NET

B2571. D-2 Microphone. Exactly as above, but with 25 foot cord. **\$15.76**

MODEL D-104 STANDARD TYPE

Responds equally well in any position. No hiss or background noise. Has excellent frequency response essentially flat from about 40 to 10,000 cycles; output level, -65 db. High impedance; may be connected directly to tube grid. Housed in an attractive chromium case, 3" diameter; 1" thick. Supplied with 8 ft. of rubber-covered shielded cable and 1/4" mounting hooks. Threaded for 3/27 stands. **\$13.23**

B2572. List. \$22.50. NET

LAPEL CRYSTAL MICROPHONE

A new dual-diaphragm, lapel type crystal microphone. Only 1 1/4" in diameter, 3/4" thick. Weighs only one ounce. Output, -65 db. with a frequency response flat from 50 to 6000 cycles. Non-directional. Genuine Grafoil-Bimorph crystal. Supplied with 25 ft. shielded cable. **\$14.70**

B2573. List. \$25.00. NET

MODEL D-2-H HAND MICROPHONE

A utility hand microphone built around the D-2 Watch Case model listed at top right of page. Has handsome rugged metal body, finished in bright chromium. Utilizes dual diaphragm principle, with the newly perfected Grafoil-Bimorph crystal unit, providing excellent response from 50 to 6000 cycles. With 6 ft. shielded rubber-covered cable. **\$16.17**

B2574. NET

B2575. Model D-2HS. Same as above but with on-off switch. **\$16.46**

NET

RCA MICROPHONES

TWO BUTTON TYPE

Genuine RCA quality 2 button microphone. Same as used in RCA recording, P.A. and home-recording equipment, etc. Ideal for the amateur transmitter. Suitable for use in call systems and public address work. Impedance is 200 ohms per button. Case is 6 1/2 x 2 inches and is handsomely finished in dark brown crackle. With flexible suspension. **\$5.85**

B2551. NET

AKRODYNAMIC TYPE

This new microphone is of the pressure-operated dynamic type. Combines excellent frequency response with small size and light weight. Impedance is 40,000 ohms; output -48 D.B. Suitable for universal application. Contains a permanent magnet made of Alnico metal, providing maximum sensitivity. Practically noiseless; excellent for close-talking. Size, 3 1/2" x 3 1/2" x 3 1/2" deep. Threaded 3/27 pipe. Complete with 30' shielded cable. Filled with chromium finish. Wt. 3 lbs. **\$17.97**

B2552. NET PRICE

TWO BUTTON HAND MICROPHONE

This scientifically damped double-button hand microphone has been built to withstand rough handling. Excellent for meetings, portable transmitters and demonstration work. Damped for use close to loud speakers. Output, -55 Db. Slide-torque type on-off switch is built into handle. Has 8 foot three-conductor connecting cord. Nickel-plated finish. **\$8.82**

B2509. List. \$15.00. NET

LATEST TYPE MICROPHONES STANDS

BRUNO MICROPHONES VELOTRON MODEL A

A static-velocity microphone combining high fidelity with sensitivity. May be used with any high or low gain amplifier. Response is easily varied. Requires from 150 to 250 volt polarizing voltage. Output—50Db. Highly directional. $\frac{1}{2}$ "-27 mtg.; with ball swivel, rubber shock absorber, and cable connector. **B2592**, With 25' cable, NET. **\$12.94**

B2591, Less cable, with connector, NET. **11.47**

WIDE-ANGLE VELOTRON

Designed especially for wide-angle pickup. Combining the desirable features of the Model A Velotron with 175° pickup, this microphone is ideal for orchestra, theater, or other similar types of work. Output 45Db. Same fitting as above, less cable.

B2593, Less switch and cable, NET. **\$17.64**

B2594, With switch, less cable, NET. **18.25**
B2584, 25 ft. cable for above, NET. **81.47**

ORATOR TYPE VELOCITY

A new addition to the Bruno line. This microphone is especially designed for lecturers and speakers who are generally in a fixed position. Wide-angle pickup permits placing the mike either in front or at the side of the speaker. Has an adjustable base. Both high and low impedance models have output of—65 Db. Furnished less cable.

B2595, High Impedance, less switch, NET. **\$27.64**

B2596, 200 Ohm Model, less switch, NET. **28.81**

B2597, High Impedance, with switch, NET. **28.52**

B2599, 200 Ohm Model, with switch, NET. **29.69**

B2584, 25 ft. cable for above, NET **81.47**

BRUSH MICROPHONES BR25 SOUND CELL CRYSTAL MIKE

A high-fidelity piezo-electric crystal microphone. Ideal for general purpose installation or for use with public address systems where different requirements must be met on each job. No polarizing voltage, battery or tap transformer needed. Non-directional. Output, —66Db. Feeds directly into input tube. With fitting type plug and socket connector; less cable.

B2536, NET. **\$22.05**

MODEL B1

A popular-priced companion to the BR25 described above. Has the same features including internal spring mounting and non-directional pickup. Threaded $\frac{1}{4}$ "-27, locking-type plug connector. Output —60Db. Dull chrome finish. Less cable.

B2536, NET. **\$19.11**

BF2 DESK MIKE

A high-fidelity desk mike designed especially for use in pulpits, lecture halls, etc. Size, $3\frac{1}{2}$ x $3\frac{1}{2}$ x $2\frac{1}{2}$ ". Best blacknickel finish. Output, —60Db. Complete with chrome-locking ring and base but less cable.

B2537, NET. **\$27.93**

THEATRE MIKE

A special set of microphones designed particularly for theater service. Furnished in sets of four with 6' cables between each unit and 15' of cable at one end. Ideal for sound reinforcement. Units are but $3\frac{1}{4}$ x $2\frac{1}{4}$ x $1\frac{1}{4}$ ". Output, —60Db. Net weight of set, 3 lbs. Same high fidelity response and other features characteristic of Brush Sound Cell Mikes.

B2538, SET OF 4, NET. **\$44.10**

LOW COST KNIGHT MICROPHONES

STANDARD TWO BUTTON

A rugged, well-constructed microphone at a surprisingly low price. Frequency range is from 40 to 3500 cycles resulting in natural reproduction of voice. Diaphragms of selected Duralumin stretched at correct tension between the two halves of the heavy cast metal case. 200 ohms per button. **B2565**, NET. **\$2.95**

DELUXE TWO BUTTON

Outstanding in value, this is one of the finest, low-priced double-button carbon microphones available. Magnetically flat response from 45 to 7200 cycles. Imp. 200 ohms per button. High quality stretched duralumin diaphragm with gold-spotted centers. Made by leading microphone manufacturer. Case, 3" in diam.; $\frac{1}{4}$ " thick. Satin-nickel finish. **B2566**, NET. **\$4.35**

KNIGHT MIKE STANDS STANDARD TYPE

Attractive professional type telescoping floor stands. Positive clutch, adjustable from 47 $\frac{3}{4}$ " to 72". Ideal for all sound systems. Maximum height 10 lbs. Threaded $\frac{1}{4}$ "-27. Less mike. Stem is chrome finished, base is black crystalline. Wt., 17 lbs. **B2567**, NET. **\$3.95**

DELUXE TYPE

Attractive chrome finished overall. One-hand clutch adjustment. Ideal where a sturdy stand is required. Cable can be run through stem if desired. Threaded $\frac{1}{4}$ "-27. Less mike. **B9990**, NET. **\$4.95**

MICROPHONE RING

Ring for using carbon mike with either stand listed above. Chrome finish, $6\frac{1}{2}$ " diam. Threaded $\frac{1}{4}$ "-27. Complete with 8 springs. **B9880**, NET. **\$1.47**

MIKE STAND ADAPTERS

B9881, Adapts old Astatic, Brush and Turner mikes to Knight floor stands. $\frac{1}{4}$ "-27 male to $\frac{1}{4}$ " female pipe thread. **25c**
B9882, For Amperite SR-80, RCA Velocity, Ureter, etc. diam. Threaded $\frac{1}{4}$ "-27 to $\frac{1}{4}$ " pipe. Chrome-plated. **30c**

DESK STANDS

Attractive modernistic desk stands suitable for all mike installations. Neat black crackle base. Two types accommodate all microphones.

FOR CARBON MIKE (Fig. A)
Has octagonal $5\frac{1}{4}$ " ring for suspension of carbon microphone. Height overall is 9 inches. Complete with 8 springs. **B9883**, NET. **\$1.18**

FOR CRYSTAL MIKE (Fig. B)
For all crystal or velocity mikes. Has chrome-plated stem, threaded $\frac{1}{4}$ "-27 at top. Overall height, 9". Heavy cast base. **B9886**, NET. **\$1.25**

SHURE STAND SWITCH

Stand-mounting switch for use with any microphone. In black aluminum case, 2 $\frac{1}{2}$ " high. Has $\frac{1}{4}$ " 27 thread. Model A. **B9878**, List. \$2.50. **YOUR PRICE... \$1.47**

ELECTRO-VOICE VELOCITY MIKES

MODEL V1

High quality ribbon-velocity microphone with range of 40 to 10000 C.P.S. Directional characteristics eliminate background noise and feedback. Shockproof mounting. Hum-free. Has professional appearance combined with unusual size. Finish: slate gray casing, chrome screen. Choice of high impedance or 200 ohm models. Output, —68 Db. With 8 ft. cable. Threaded $\frac{1}{4}$ "-27. **B2577**, 200 Ohm Model. **B2578**, High Impedance Model. NET EACH. **\$14.70**

MODEL V2

Velocity microphone of higher quality than the Model V1. Basically flat to 14000 C.P.S. Threaded $\frac{1}{4}$ "-27. Output, —68 Db. With 20 ft. cable. **B2579**, Standard Impedance, 200 ohms. **B2580**, High Impedance, 50,000 ohms at 1000 cycles. NET EACH. **\$20.58**

MODEL V3

High quality velocity microphone for ultra-faithful sound work. Excellent frequency response characteristics. Cutoff begins at 14000 cycles. Output, —66 Db. Equipped with $\frac{1}{4}$ "-27 threaded cradle support, and 20 ft. cable with plug. **B2581**, Standard Impedance, 200 ohms. **B2582**, High Imp., 50,000 Ohms at 1000 cycles. Each, \$50.00. NET EACH. **\$29.40**

MODEL V15

"Communication Special" for high-quality voice transmission. Response, 40—12000 C.P.S. output —64 db. High impedance. Complete with modernistic desk stand and 10 ft. cable. Has locking cradle design. **B2583**, NET. **\$22.05**

TRANSDUCER 'BULLET' DYNAMIC MIKES

MODEL TR-6
Latest dynamic microphone. High output, —42 Db. Wide frequency response. Does not require preamplifier or external power. Low feedback; highly directional. Diam., 3"; length 5". With 25 ft. cable and Amphenol connector plug. $\frac{1}{4}$ "-27 thread. **B2595**, 200 Ohm Model. **B2596**, High Impedance. NET EACH. **\$23.23**

MODEL TR-5

Similar to the TR-6 described above but popularly priced for all-purpose installations. Black bakelite case. For $\frac{1}{4}$ "-27 thread. With 25 ft. of cable. Output, —42 Db. **B2597**, 200 Ohm Model. **B2598**, High Impedance. NET EACH. **\$16.17**

MODEL TR-9

Laboratory grade microphone for the finest installations. Individually calibrated. Response 20 to 10000 C.P.S. Output, —38 Db. $\frac{1}{4}$ "-27 mounting. Weight, 1 lb. **B2599**, 200 Ohm Model. **B2590**, 50,000 Ohm Model. NET EACH. **\$52.92**

ORCHESTRA MIKE STAND

Handsome and practical three-section collapsible stand with maximum height of 66 inches and minimum height of 25 inches. Can be used either as floor or banquet type microphone stand. Stand finished in chromium with cadmium plated legs. Ideal for any installation. The $\frac{1}{4}$ "-27 standard thread at the top will fit all modern microphones. Can be packed into a space, 3" x 20" x 20". Ship. weight, 4 pounds. **B9890**, NET. **\$7.35**

MICROPHONES and ACCESSORIES

AMPERITE VELOCITY MICROPHONES



A complete line of high-quality ribbon-velocity microphones. Streamline construction. Incorporate latest features of acoustic design. Minimum feedback, hum pickup and extraneous noises. Swivel mounting bracket with built-in shock absorber. 1 1/2" threads.

Model RB-Ma For high quality speech and music reproduction. Frequency range, 40-11,000 CPS. Output, 200 ohms.—65 D.B. Has built-in switch and locking-type cable connector. Supplied complete with 25 feet of matched microphone cable.

Model RB-Ba B2541. Same as Model RB-Ma above but has high impedance output of 2000 ohms to feed directly to grid.

Model RB-Ba B2542. Distinct type, ideally suited to theater stage installations. Frequency range flat from 40-11,000 CPS. Output 200 ohms;—68 D.B. With switch and 25 foot cable.

Model RB-BBa B2543. Same as Model RB-Ba above but high impedance type, 2000 ohm output. List, \$42.00. NET EACH OF ABOVE.....**\$24.70**

Model RB-Ba B2544. For all-around speech and music reproduction. Frequency range, 60-8000 CPS. Output, 200 ohms;—68 D.B. Supplied complete with 12 foot cable and built-in switch.

Model RB-Sa B2545. Same as Model RB-Sa above, but with high impedance output of 2000 ohms. List, \$32.00. NET EACH.....**\$18.92**

MODEL RAL

B2546. A moderately-priced ribbon-velocity microphone of typical high quality Amperite construction. Output, 200 ohms;—68 D.B. Complete with 8 feet of cable.

MODEL RAN

B2547. Has same unusually fine frequency response for both voice and music as microphone above, but high impedance. For connecting directly to grid. Output, 2000 ohms. With 12 feet of cable. List, \$22.00. NET EACH.....**\$12.94**

JUNIOR VELOCITY LAPEL TYPE

Small in size but capable of really high quality performance. Reproduction is life-like and clear. Has flat response from 60 to 7500 CPS for all voice work. Gives speaker unobtrusive of audience. Output—70 D.B. Size 2 1/4" x 1 1/4". 25 foot cable.

constructed wire. B2548, 200 Ohm Model. B2549, High Impedance Model. List, \$22.00. NET EACH.....**\$12.94**

EXTERNAL INPUT TRANSFORMER

A balanced, hum-buck winding transformer for coupling low impedance velocity microphones to amplifiers having high impedance input circuits. B2279. List, \$3.00. NET.....**\$2.94**

REPLACEMENT RIBBONS

B2598, STANDARD. Package of 2 ribbons. NET.....**73c**
B2599, SUPER SENSITIVE. Package of 2 ribbons. NET.....**\$1.03**

CARBON GRANULES

Laboratory-made, high quality carbon granules. No. 100 size. Sufficient to recarbon two double-button carbon microphones. B2597. NET.....**55c**

MICROPHONE SPRINGS

B7557. Made of tempered spring steel, ends, Cadmium-plated finish. Loop SET OF 8.....**15c**

MICROPHONE ACCESSORIES

COUPLING TRANSFORMERS



B6050, SINGLE BUTTON TYPE. Has primary for standard 200 ohm single button microphone; secondary winding is designed for coupling to tube grid. Completely shielded. With flexible wire leads.

B6051, TWO BUTTON TYPE. For use with all two-button type microphones. Primary impedance, 200-200 ohms; secondary to tube grid. Ratio 1 to 45. **\$1.32** NET EACH

3 WAY MICROPHONE PLUG AND JACKS

High-grade 3 circuit plug with bakelite handle. Long jack with phosphor-bronze spring to accommodate plug. 1/4 inch mounting.

B8957. PLUG. NET **40c**
B8958. JACK. NET **35c**

MIDGET JACK

Three contact jack for standard microphone plugs. Has solder lug terminals. Sturdy foot-proof construction. **26c** NET

PORTABLE JACK

Accurately-made portable jack. Made to receive any standard 3 way microphone plug. Compact black molded bakelite barrel threaded to securely fasten to metal jack. Fully insulated. **38c** NET

SHIELDED PLUG & JACKS

Standard 2 and 3 circuit plugs and jacks supplied with nickel-plated brass shielded barrels. Barrel knurled for finger grip. Fully insulated.

2 CIRCUIT B5666. PLUG. NET **59c**
3 CIRCUIT B5667. JACK. NET **73c**
B5668. PLUG. NET **59c**
B5669. JACK. NET **73c**

CRYSTAL MIKE CABLE

Shielded, rubber-jacketed cable. Conductor of stranded copper; extremely flexible.

SINGLE CONDUCTOR
B2499. 100 FEET.....**\$3.70**
PER FOOT.....**4c**
DOUBLE CONDUCTOR
B2498. 100 FEET.....**\$6.40**
PER FOOT.....**7c**

WEATHER PROOF CABLE

Heavy rubber jacket over tinned copper shielding. Ideal for outdoor and heavy duty service.

No.	Cond.	PER FOOT	100 FEET
B3514	3	3 3/4c	\$2.70
B3515	3	4 c	3.75

MIKE SHOCK ABSORBER

Prevents floor vibration from reaching microphone. Substantial; sturdy; made of heavy brass, with polished chrome finish. With live gum-rubber cushions. 1/2"-27 threads, male and female. **59c** NET

BRUNO TRIPLE CONNECTOR

An ingenious and simple device which will facilitate the connection of two parallel circuits. Makes possible the connection of two microphones or parallel to a single input or loud speakers in output amplifier. Threaded 1/2"-27. **\$1.18** NET

SHIELDED CONNECTORS

Polished chrome-finished, heavy brass shell microphone connectors. Male and female threads. 1/4"-27.

CABLE TYPE PLUGS B1965. 3 CONTACTS.....**59c**
B1966. 4 CONTACTS.....**65c**
RECEPTACLES B1967. 3 CONTACTS.....**59c**
B1968. 4 CONTACTS.....**65c**

STAND TYPE

For use with cable types above; has 1/4"-27 female thread for mounting on microphone stand.

RECEPTACLES B1969. 3 CONTACT.....**59c**
B1970. 4 CONTACT.....**65c**

CHASSIS TYPE

A convenient chassis type connector. Mounts in 1/4" chassis hole; for use with above cable connectors when connection is made at amplifier. With knurled ring, lock washer and hex locking nut.

B1971. 3 CONTACT RECEPTACLE NET.....**29c**
B1973. 4 CONTACT RECEPTACLE. 3 CONTACT PLUG NET EACH.....**32c**

CONNECTOR CAP

Fits cable and chassis type connectors above; protects contacts and receptacle from dirt and tampering. **29c** NET

SINGLE CONDUCTOR MICROPHONE CONNECTORS

A new type of single conductor cable connector. Designed to permit instant connection or disconnection of cables. Side set-screw holds cable securely. Coupling ring locks contacts securely against vibration. Polished chrome finish. Will take cables up to 1/4" dia.

B1976. Fig. A. RECEPTACLE NET.....**29c**
B1977. Fig. B. PLUG NET.....**24c**
B1978. Fig. C. CHASSIS TYPE NET.....**18c**

ARMORED TYPE CONNECTOR

Sturdily constructed connectors for microphone cables. Polarized type; connections cannot be reversed when joining cable lengths. Have adjustable cable clamps. Knife blade contacts make positive connection. Very efficient. Will handle currents up to 100 Amperes at 250 volts.

B7578. Socket NET.....**69c**
B7579. 1/4" Ring Plug NET.....**48c**

MIKE RECEPTACLE

Wall-type polarized receptacles for use with B7579 plug covers, shown above. Ideal for permanent sound installations in Schools, Theaters, Auditoriums, etc. For mounting on P. A. and broadcast station master control panels, etc. Two types available: small receptacle only or receptacle mounted in 1/4" round cover for standard conduit boxes.

B5485. Receptacle only. NET.....**78c**
B5486. With 1/4" cover. NET.....**\$1.15**

MIKE RECEPTACLE AND PLATE

A polarized microphone receptacle mounted on a bakelite single-gang plate for flush wall mounting. Measures 2 1/4" x 1 1/4". Will take B7579 plug above. **\$1.32** NET

PHONOGRAPH PICKUPS · RECORDS



BRILLIANT TONE QUALITY

Has exceptionally fine frequency response and high output. Will reproduce with high fidelity all standard phonograph records. Needle scratch is reduced to an absolute minimum by correct balancing. Will provide clear, brilliant reproduction at low cost. Attractive black finish.

NEW WEBSTER MAGNETIC PICKUPS

HIGH FIDELITY

Plays both 78 and 33 $\frac{1}{3}$ R.P.M. records. Has frequency response from 100 to 7000 C.P.S. A true high fidelity magnetic pickup of advanced design. Attractive golden-bronze finish.



LATEST MODEL 30-A3

A new improved wide-range pickup capable of clear reproduction. Will reproduce extended frequencies on both treble and bass ranges for brilliant, faithful tone quality. Perfectly balanced to minimize needle scratch; will play all records up to 12 in. size.

STANDARD IMPEDANCE

The 30-A2 Standard model has an impedance of 9,100 ohms and delivers a high output. May be used to replace any standard high impedance pickup.

\$2.90 Without volume control. **\$5.05** YOUR PRICE.

\$2.29 With volume control. **\$5.65** YOUR PRICE.

HIGH IMPEDANCE MODEL

Model 31-A4 has an impedance of 36,500 ohms and an output of 1 volt. For low gain amplifiers.

\$2.92 Without volume control. **\$5.65** YOUR PRICE.

\$2.29 With volume control. **\$6.05** YOUR PRICE.

LATEST ASTATIC CRYSTAL PHONO PICKUPS



PIEZO CRYSTAL PICKUPS

The original crystal pickup, and still a favorite with constructors of record-reproducing units. Carefully counterbalanced to exert correct needle pressure assuring maximum fidelity reproduction with minimum surface noise. Frequency response is free from objectionable peaks. Connects to grid of input tube.

HIGH FIDELITY RESPONSE

Small compact type of assembly makes these units ideal for installation in all types of portable record-playing devices. Exceptionally fine frequency response may be varied to accent either treble or bass by varying the value of input circuit resistance.

\$7.93, 1" arm for 10" or 12" records. **\$5.88** YOUR NET PRICE.

\$7.64, 1 1/2" arm for 10" to 12" records. **\$7.35** YOUR NET PRICE.

ASTATIC SCRATCH FILTER

\$7.88, For crystal pickups. Tuned to resonate at scratch frequency. Sealed in metal can, 1 1/4 x 2". **88c**

FAMOUS KNIGHT HIGH IMPEDANCE PICKUP

An outstanding value in a high quality phonograph pickup. Ideal for use in sound systems, phono combinations, and for modernizing older type phonographs. Simple to mount, accurately balanced for correct needle pressure. Built to highest standards; has high percentage cobalt magnet for superior performance. Features extremely flat, frequency response over a wide range. Uniform response may be obtained by using a 50,000 ohm volume control; has accentuation by using only 10,000 ohm control. High impedance type with high output. Extremely light in weight yet sturdy built. Length overall 5 1/4", with 18" cord.

\$2.95, Knight High Impedance Pickup. **\$3.85** NET.

NEW WEBSTER CRYSTAL PICKUPS

40 to 8000 C.P.S.

Exceptionally fine frequency response and freedom from needle noise is obtained through advanced type of construction. A high quality pickup in every respect.



STANDARD MODEL

An excellent crystal pickup for use wherever true reproduction is a necessity. Ideal for use in all types of record and transcription players. Wide range from 40 to 8000 C.P.S. provides unusually brilliant tone quality. Output, 2.5 Volts; impedance, 80,000 ohms.

\$2.29, Less volume control. **\$6.47** YOUR PRICE.

\$2.29, With volume control. **\$7.06** YOUR PRICE.

HIGH FIDELITY MODEL

Similar to the standard model described above but is designed for the very finest installations. Frequency response is flat from 40 to 5000 cycles within 2 db., with a constantly rising output from 5000 to 8000 cycles. Output, .7 volt.

\$2.98, Less volume control. **\$7.50** YOUR PRICE.

\$2.99, With volume control. **\$8.08** YOUR PRICE.

POPULAR RECORD ASSORTMENTS

DOZENS OF 25 DOUBLE-FACED RECORDS

Famous brands American record assortments at real savings. For dealer demonstrations and public address use. Packed 25 assorted records to the carton; recordings by famous American artists; vocal bands, dance orchestra, etc. Because these assortments reach us already packed, we cannot determine what titles are in each assortment; all recordings by famous artists, dance orchestras and bands. Shpg. wt., 13 lbs.



\$9.99, Carton of 25 Assorted. **\$2.25** YOUR SPECIAL PRICE.

FOREIGN RECORDS

Popular selections of foreign language recordings, 25 assorted to the carton.

\$9.98, Spanish. **\$2.50** PER ASSORTMENT
\$9.98, Swedish. **OF 25 RECORDS**
\$9.98, German.
\$9.98, Italian.
\$9.98, Italian. **\$3.50**

GENUINE RCA-VICTOR PHONOGRAPH NEEDLES

\$7.613, Soft Tone, 100 to phgs. **75c**
\$7.608, Half Tone, 75 to phgs.
\$7.606, Full Tone, 100 to phgs.
\$7.607, Loud Tone, 100 to phgs. **75c**
Per Pkgs., 10c, 18 Pkgs. for.
\$7.610, Chromium, 78 RPM, 5 to phgs.
\$7.609, Chromium, 33 1/3 RPM. **25c**
to phgs. PER PKGE.
\$7.611, Tungstens, Full Tone, 8 to phgs.
\$7.611, Tungstens, Loud Tone, **25c**
8 to phgs. PER PKGE.
\$7.612, Heavy Recording Needles, **25c**
8 to phgs. PER PKGE.

PERMO PLASTIC NEEDLE

\$7.620, Plays over 2000 records. Fits record grooves perfectly. Prolongs record life. **50c**
EACH, 60c. In lots of 5, EACH

NEEDLE CUP

Attractive, well-made needle cup. Will fit any 1 1/4 inch round opening. **\$7.601**, NET. **5c**



PIEZO CRYSTAL PICKUPS

The original crystal pickup, and still a favorite with constructors of record-reproducing units. Carefully counterbalanced to exert correct needle pressure assuring maximum fidelity reproduction with minimum surface noise. Frequency response is free from objectionable peaks. Connects to grid of input tube.

HIGH FIDELITY RESPONSE

Small compact type of assembly makes these units ideal for installation in all types of portable record-playing devices. Exceptionally fine frequency response may be varied to accent either treble or bass by varying the value of input circuit resistance.

\$7.93, 1" arm for 10" or 12" records. **\$5.88** YOUR NET PRICE.

\$7.64, 1 1/2" arm for 10" to 12" records. **\$7.35** YOUR NET PRICE.

ASTATIC SCRATCH FILTER

\$7.88, For crystal pickups. Tuned to resonate at scratch frequency. Sealed in metal can, 1 1/4 x 2". **88c**

"TRU-TAN" PICKUPS

New professional High-Fidelity Crystal pickup for use wherever the finest reproduction is desired. New offset head holds needle true to tangent through entire record playing cycle; has reversible action so needle can be replaced from top. Arm rotates on double roll ball-bearings.

MODEL B-10

For use in any phono-radio combination, portable phonograph, or similar type of record player. Arm is 10 inches long; for playing all 10 or 12 inch records at either 78 or 33 1/3 R.P.M. Free from annoying resonant peaks. Will provide truly high-fidelity reproduction with exceptionally wide range of both treble and bass. Accurately balanced arm of sturdy construction to eliminate vibration. One of the very finest crystal type pickups made today.

\$7.87, Model B-10. **\$10.29** YOUR NET PRICE.

MODEL B-15

Similar in appearance and performance to the Model B-10 described above. Will play all standard records or transcriptions up to 16". **\$7.86**, Model B-15. **\$16.17** YOUR NET PRICE.

SHURE "ZEPHYR" CRYSTAL PICKUP

A new crystal pickup with many features. Uniform frequency response from 30 to 10,000 cycles; 80,000 ohms impedance; connects direct to grid. "Aero-Sonic" design. New "needle-tile" feature keeps needle tangent to, and centered in the record groove. This feature together with the low needle pressure of 1 1/2 ounces, makes for minimum wear and lowest possible background noise. In molded bakelite housing; 10 1/2" long; with 3/4" cord and motor board drilling template. **\$7.696**, List, \$12.00. NET. **\$7.06**

AUDAX MAGNETO CHROMATIC PICKUPS

High-fidelity pickups built on the latest induction principle. Frequency range is well beyond the limits of commercial records, assuring brilliant reproduction. Ball-bearing mounted. Low center of gravity. High impedance, high output. **\$2.25**, Type PH-46. **\$12.00** For all 10 to 18" records. **\$15.00**, YOUR NET PRICE
\$2.25, Type HR-44. **\$8.70** For all 10" and 12" records. **\$12.50**, YOUR NET PRICE.



PHONO MOTORS • RECORD PLAYERS • CHANGER

SPECIAL VALUE PHONO MOTOR



A brand-new self-starting synchronous type single speed phono motor. Designed along advanced principles. Absolutely dependable, quiet in operation. Maintains constant speed regardless of line voltage variations. Has 12 inch full-covered turntable. Mounts easily with three screws. Shpg. wt., 5 lbs.

B10068 YOUR SPECIAL PRICE..... **\$5.85**
B10076 Steel mounting plate for above motor. NET..... **18c**

FAMOUS GREEN FLYER PHONO MOTORS



SINGLE SPEED—78 R. P. M.
 A high quality phonograph motor for 78 R.P.M. records. Heavy-duty governor-controlled induction type motor. Operates quietly at constant speed. Equipped with 10 inch turntable and speed control lever. For operation on 110 Volts, 50-60 cycles A.C. Mounting, 6 1/2 x 1 1/2". Complete with mounting hardware.

B10070 List. \$13.25
YOUR PRICE..... **\$7.95**

2 SPEED: 33 1/3-78 R. P. M.
 Heavy-duty type as above. Plays both 33 1/3 and standard 78 R.P.M. records. Lever shifts speed instantly. 12" turntable. Mounts in 8 1/2 x 5 1/2" cutout. Mtg. center, 6 1/2 x 1 1/2". 110 volts, 60 cycles.

B10072 List. \$18.00
12" Turntable. NET..... **\$10.80**

B10071 Same as above, but with 10" turntable. List. \$17.50.
NET..... **\$10.50**

UNIVERSAL 110 V.A.C.-D.C.
 Single speed 78 R.P.M. type. Has A.C. to D.C. changeover switch. With 12" turntable.

B10073 YOUR PRICE..... **\$12.30**

DUAL SPEED UNIVERSAL
 For operation from 110 Volt 60 Cycle or 110 Volt D.C., either 78 or 33 1/3 R.P.M. Has 12" turntable, and hardware.

B10069 NET..... **\$13.95**

6 VOLTS D. C.
 Two-speed type. Operates on 6 volt storage battery at 2.8 amps. Has 12 inch turntable.

B10074 List. \$24.50. NET..... **\$14.70**

WEIGHTED 12" TURNTABLE
 For 3-speed heavy turntable for 33 1/3 R.P.M. records, add \$1.05 to above prices.

GREEN FLYER RECORDING MOTOR



A heavy-duty double motor and turntable for 78 and 33 1/3 R.P.M. recording and playback. Has constant speed, governor-controlled, induction motors. Silent performance is assured by spiral-cut gears running sealed in oil; one size self-lubricating bearings. Just the turntable to use with high-grade recording and play-back equipment. Ideal for recording with any head on either blank or pre-recorded discs. Supplied with speed shift lever, speed regulator, hardware and weighted 12" turntable.

B10075 List. \$33.50. YOUR PRICE..... **\$20.10**

NEW RCA-VICTOR RECORD PLAYER

An ingenious and inexpensive little instrument built by RCA-Victor. Makes an ideal record player for use in adjacent radio sets to fine phonograph performance. May be used in conjunction with the RCA RK24 Phonograph Oscillator, or may be directly connected to the radio receiver. In sets with low audio gain the Oscillator must be used. The ready portability of the RCA Record Player also makes it an effective use with portable A.C. sound equipment.

MODEL R-93-A
 B10099
 NET
\$12.49



PORTABLE ELECTRIC
 The RCA Record Player consists of an electrically driven, constant speed turntable capable of playing either ten- or twelve-inch records and an improved electrical pickup. Motor operates on 110 volt, 60 cycle current. A volume control extends out of one end of the case.

CAN BE USED WITH ANY RADIO RECEIVER
 Sell extra entertainment profitably by means of the RCA-Victor Phonograph Record Player. Easily connected to any radio receiver. Housed in an attractive walnut finished chest, only 11 1/2" wide, 10" deep, 5 1/2" high.

B10099, MODEL R-93-A, NET EACH..... **\$12.49**

RCA-VICTOR JR. AUTOMATIC RECORD CHANGER

This new record changer is ideal for custom-built combination sets, P.A. equipment, phonograph modernization, and other applications. It automatically changes seven 10-inch records, plays 15-inch records manually, and repeats the last record of either size. Extremely small and compact, only 13 1/2" long, 10 1/2" deep. Fully above motor board, 1 1/2" depth below motor board, 1 1/2". Comes complete with an excellent magnetic type pickup. List ohms impedance. Operates at 78 R.P.M., 110 volt, 60 cycle A.C. Brown wrinkle finish. Shpg. wt., 15 lbs.

B10098 YOUR NET PRICE..... **\$29.97**
 List. \$48.95.



SELL PROFITABLE PHONO INSTALLATIONS TO RADIO SET OWNERS



PHONO MOTOR AND PICKUP ASSEMBLY

An exceptionally compact motor and pickup of excellent design, same as used in the RCA-Victor Model 300 Radio-Phonograph Combination. May be used with any amplifier or radio set where space is limited. Synchronous motor is only 7 1/2" in diameter, 2 1/2" deep. Manual starting. Operates constantly at 78 R.P.M. for standard record reproduction. For 105-125 volt 60 cycle operation. The pickup is only 6 1/2" long, but its performance equals a standard unit. Imp. is 1400 ohms at 1000 C.P.S.; Output 3 V. at 400 C.P.S.

B9437, MIDGET MOTOR, Part No. 11473, For 105-125 volt 60 cycle operation. List, \$10.50. NET..... **\$6.30**

MOTOR MOUNTING ASSEMBLY
 Consists of all necessary hardware and rubber bushings for mounting the RCA motor described above.

B9446 List. 56c. NET..... **34c**

B9448, MIDGET PICKUP, Part No. 12329, 6 1/2" long; 2500 ohms Impedance. NET..... **\$4.05**
 List. \$6.75. NET..... **\$4.05**

RCA RK 24 PHONO OSCILLATOR

Designed by RCA-Victor to insure good phonograph reproduction when used with practically any receiver. Sell extra entertainment profitably by installing the RCA Phonograph Oscillator. May be connected in a few minutes. Requires no changes in the receiver wiring. Sells itself to your prospects upon demonstration by "tuning in" phonograph reproduction just like a radio station.

SIMPLIFIED INSTALLATION
 Leads are arranged to slip under receiver tube prongs. While the RK24 Oscillator is designed especially for use with the RCA-Victor Record Player, any electrical pickup may be used. Acts as a miniature transmitting station modulated by the phonograph pickup. Has a tuning range of 1400 to 1700 K.C. Requires the use of a 6AT tube with sets using 6.3 Volt tubes, or a 2AT with sets using 2.5 Volt tubes. Furnish less tube, with directions. Easy to install; demountable in operation.

B9407, List. \$9.75. NET..... **\$5.85**

RCA-VICTOR PICKUP HEADS
 Genuine RCA-Victor replacement phonograph pick-up heads.

B9496 RCA 9676. Exact duplicate pickup for RE45 and RE75. Imp. 400 ohms. **\$3.90**
B9495 RCA 9666. For Model 331. Impedance 30 ohms. **\$3.30**
YOUR PRICE..... **\$3.30**

B7326 New Pick-up Transformer, 30 ohms to grid. A well-made unit. **\$2.20**
YOUR PRICE..... **\$2.20**



DEAGAN MUSICAL STATION CHIMES

Produces four perfectly pitched tones. Creates delightful mellow tones at any random tempo. Ideal for home use, and for Amateur or Broadcast stations. Chromium-plated screens and black tubes. Supplied complete with tapping magnet, and PRBE book of 80 calls and musical selections.

B7330 Model 201. \$6.50
YOUR PRICE..... **\$4.50**



B7326 New Pick-up Transformer, 30 ohms to grid. A well-made unit. **\$2.20**
YOUR PRICE..... **\$2.20**

RECORDING EQUIPMENT



NEW PRESTO MODEL "D" PORTABLE RECORDER

A new portable unit especially suited to the needs of Schools, Advertising agencies, broadcast stations, etc. Complete recording and playback equipment in one compact, easily portable unit. Heavy 12" turntable, which handles any disc up to 12" size, is driven by synchronous motor. Sturdy overland assembly cuts, grooves and records in same operation; recording head has wide frequency range for true tonal reproduction. Has built-in four-stage amplifier with switch for recording or playback; provides excellent tone quality, with ample volume to fill classroom, lecture-hall, etc. Front panel has 8" dynamic speaker. Extremely simple in operation; anyone can make high-quality recordings of speech or music without technical knowledge; no complicated adjustments. Separate input for radio. Has high-grade magnetic playback pickup. Size only 13 1/2" x 11 1/2" x 2 1/2". With crystal mike and floor stand. For 110 Volts 60 Cycles. Wt., 70 lbs.

B10083. For 78 R.P.M. Only. Complete with instructions. NET.....
SCHOOLS AND COLLEGES. Write for attractive Educational Discounts on Presto Recording Equipment, discs, etc. We can supply all your recording needs at lowest prices.

\$325.00

B10084. For 78 or 33 1/3 R.P.M. Complete with instructions. NET.....
SCHOOLS AND COLLEGES. Write for attractive Educational Discounts on Presto Recording Equipment, discs, etc. We can supply all your recording needs at lowest prices.

\$375.00

UNIVERSAL PORTABLE RECORDER

A new portable recorder. Simple enough in operation so that the ordinary layman can operate it. Speech and dramatic schools will find it of great value in correcting defective speech. Will record any blank up to 17" at either 78 or 33 1/3 R.P.M. Can be instantly changed to cut either 90, 110 or 130 lines per inch. "Inside to out" or "outside to in." Has 15 ohm Professional cutting head described below. The full frequency playback pickup supplied with B10401, can be used for monitoring. Black grained leatheroid case measures 28" x 24 1/2" x 12". For 110 volts, 60 cycles. Shpg. wt., 80 lbs.

B10402. Universal Portable. NET.....
B10401. Universal Portable with 500 ohm pickup. NET.....

\$248.50

\$268.50



UNIVERSAL PROFESSIONAL RECORDER

Precision workmanship and highest quality material combined with the knowledge gained through years of recording experience, make this the very finest recorder obtainable. A heavy "rock solid" piece of precision machinery for long and continued use. Designed for the most exacting recording requirements. Supplied with full set of accessories and hardware. Write to our Sound Engineering Division for full details.

B10400. Complete Professional Recorder, less cutting head. NET.....
 Freight charge extra.....

\$375.00

\$42.50

B7230. Professional Cutting Head. Response, 30 to 8000 C.P.S. Has cobalt steel magnet, balanced armature, and fully adjustable. 15 ohms. NET.....

\$42.00

Will record on Aluminum, Silveroid, Acetate or Nitrate discs. 16" turntable driven by 100% synchronous reversible motor, manually started. Runs either 78 or 33 1/3 R.P.M. Supplied less cutting head.
B7231. Floating Recording Head for Acetate or Nitrate discs. Nickel aluminum coated. Response, 30 to 8000 C.P.S. without 2 DB. Imp., 15 ohms. NET.....

\$68.00

These heads come in 30, 200 or 500 ohm models at same price as above, on special order.

UNIVERSAL RECORDER

Consists of a powerful, rubber-mounted motor for 78 or 33 1/3 R.P.M. Use of weighted turntable; removable 88 line per inch leadwire; Professional cobalt magnet cutting head of 15 ohms impedance. With volume control, level meter, and "on-off" switch. Sample record and full instructions are supplied. Designed for making records on blank aluminum discs 30 to 125" in size. For 110 V., 50/60 cycles A.C. Also in 220, 240, or 400 ohm models at the same price. Wt., 28 lbs.

B10096. NET.....
\$92.50

RECORDING NEEDLES SAPPHIRE

Of high grade sapphire, precision-ground and polished. Recommended for long wear and fidelity.

B2603. Type A. For blank aluminum discs. List \$4.00. EACH.....

\$2.35

B2604. Type B. For pregrooved aluminum and composition discs. List \$4.00. NET EACH.....

\$2.35

B2605. Type D. For Silveroid, Professional and other semipolished discs. List \$5.00. NET EACH.....

\$3.53

B7612. RCA-Victor Steel Home Recording needles. For pre-recorded discs. 8 to a package. YOUR PRICE.....

25c

PRESTO GENUINE SAPPHIRE RECORDING NEEDLES

B2606. Genuine sapphire needles for acetate recordings. Accurately ground for maximum service. Average life approx. 15,000 hours. EACH.....

\$5.00

We can resharpen Presto sapphire needles at a cost of \$1.65 each.

STROBOSCOPE

Checks the speed of any turntable. Place Stroboscope on turntable and illuminate by any light operating on 60 or 25 cycles. 6" in diameter, of best construction.

B7293. YOUR PRICE.....

15c

RECORDING DISCS



ALUMINUM

Made of a special hardened aluminum alloy; mirror-polished. Assure maximum volume and brilliancy of tone with long life.

PREGROOVED DISCS

Double-faced, pregrooved discs. May be recorded on both sides. Use Type B Sapphire or Steel Home Recording Needles.

No.	Dia.	List	NET
B7280	6"	\$0.30	16c
B7281	8"	.50	23c
B7282	10"	.75	39c
B7283	12"	1.00	55c

BLANK DISCS

Extra-heavy aluminum discs, .036 in. thick. Use Type A Sapphire Recording Needle.

No.	Dia.	List	NET
B7261	6"	\$0.30	15c
B7262	8"	.50	20c
B7263	10"	.75	35c
B7264	12"	1.00	45c

PRESTO GREEN SEAL DISCS

The finest professional recording disc available. Heavy aluminum base evenly coated with cellulose compound. Mirror smooth with minimum surface noise.

No.	Dia.	Thickness	NET
B7303	6"	.651"	\$0.40
B7304	8"	.651"	.55
B7305	10"	.651"	.70
B7306	12"	.651"	1.00
B7307	16"	.651"	1.80

OVERSIZE GREEN SEAL DISCS

Overize discs for producing master recordings when a number of duplicate pressings are required. Only one side can be mastered if disc is to be processed.

No.	Dia.	List	NET
B7308	10"	.679"	\$1.25
B7310	12"	.679"	1.80
B7311	17 1/2"	.679"	3.00

RECORD PRESSING SERVICE

Allied now offers an inexpensive record pressing service to small recording studios, or persons requiring several copies of any particular record. They may make. Provides any number of duplicates at low cost. Write for prices.

PRESTO BLACK SEAL DISCS

Similar to the Green Seal discs listed above but as heavy. Recommended for test records and for speech correction work where light cuts are to be used.

No.	Dia.	List	NET
B7314	8"	.621"	35c
B7315	10"	.621"	45c
B7316	12"	.621"	80c

Attractive Educational Discounts on quantity orders for recording discs are offered to Schools, Universities, etc. Write for complete details.

CUTTING LUBRICANT

B7247. For use on disc surface before cutting. Reduces surface noise, and prolongs stylus life. In 1 oz. vials. NET.....

29c

RECORD PRESERVATIVE

B7248. For application to record after cutting. Polishes groove and preserves by sealing off newly exposed material.

29c

RECORD RECONDITIONER

B7249. A gas-liberating chemical for softening Nitrate or Acetate blanks. Reconditioned old records, or softens new blanks before cutting. 1 oz. cans. NET.....

29c

PLAYBACK NEEDLES

B7589. BAMBOO REPRODUCING NEEDLES. For playing all types of recorded discs. PACKAGE OF 100.....

59c

B7278. RED CACTUS NEEDLES. The most durable non-metallic needle. Plays 5 to 15 records. PKG. OF 10.....

59c

B7272. RED SHANK STEEL NEEDLES. For maximum number of playings on Acetate coated discs. .002" radius at point. PACKAGE OF 10.....

15c

B7279. "TRAILING SHOE" NEEDLE. For Silveroid, pregrooved composition, or cellulose records when played with a head whose angle is less than 30° from the vertical. PACKAGE OF 10.....

29c

REPLACEMENT UNIVERSAL SPEAKERS

KNIGHT PERMANENT MAGNET DYNAMIC SPEAKERS



A new line of high quality permanent magnet dynamic speakers with exceptional features. Speaker magnets are made of high-purity "Alnico", copper wire of seamless, non-corrosive material. Gilmer type frame construction is used throughout. Ideal for PA installations, or as extension speakers on sets and amplifiers. All speakers except 3 1/2" model have universal output transformers.

NEW 3 1/2 INCH MODEL

Ideal for battery or small AC-DC sets. Only 3" deep. Handle 1 1/2 watts. Voice coil, 3 ohms. Furnished less output transformer.

B9528.
NET.....

\$1.76

6 INCH MODEL

For set builders, and for use in small table models. 3" tall. Price: 5 ohm voice coil. Handles 4 watts without distortion. Shpg. wt., 2 1/2 lbs.

B9534. NET..... \$2.79

12 INCH MODEL

May be used as P.A. extension speakers or for larger radio sets. 5 ohm voice coil. Will handle 12 watts without distortion. Shpg. wt., 9 lbs.

B9536. NET..... \$5.99

5 INCH MODEL

An ideal mid-size set replacement speaker. Has full 3/4" wire mesh; 5 ohm voice coil. Will handle 3 watts with remarkable fidelity. Shpg. wt., 2 lbs.

B9533. NET..... \$2.52

8 INCH MODEL

An ideal replacement speaker for all battery sets, or for speaker extensions. 5 ohm voice coil. Will easily handle 5 watts. Shpg. wt., 4 lbs.

B9535. NET..... \$3.42

WRIGHT-DECOSTER UNIVERSAL REPLACEMENT DYNAMIC SPEAKERS



A high grade line of speakers for universal application. Among the many desirable features are: Sizes for every requirement; Universal field coil; Universal output transformer, etc. Ideal for all replacement or custom-building requirements which demand high quality reproduction. Universal field coils: 2500, 2200, 1800, 1500, 1000, 700 and 500 ohms tapped at 300 ohms. May be used to replace any speakers with field resistance listed above. Output transformer matches any single or P.P. output tubes. Every Service Shop should have several of these speakers to take care of emergency replacement calls.

8 INCH MODEL

For use in replacement speakers in small console and larger table model receivers. Shpg. wt., 4 1/2 lbs.

B9591. NET..... \$3.92

12 INCH MODEL

Equipped with the famous Paracurve diaphragm. Ideal for large radio sets and small P.A. systems. 8 1/2 lbs.

B9593. NET..... \$5.88

6 INCH MODEL

Ideal for midsize sets. Will improve quality of reproduction without distortion at full volume. Shpg. wt., 3 1/2 lbs.

B9590. NET..... \$3.43

10 INCH MODEL

Will surely handle the output of most 5 to 10 tube radio sets. Has unusually fine tone. Shpg. wt., 4 1/2 lbs.

B9592. NET..... \$5.39

NEW WRIGHT-DECOSTER NOKOIL DYNAMIC SPEAKERS



NO FIELD COIL—NO FIELD DRAIN
A radically new design. Capable of performance usually expected only from electro-dynamic. Ideal replacement for old style magnetics in battery-operated receivers. Small in size; require little space. For small sets, call systems, etc. Have 2.5 ohm voice coils. With universal output transformer.

NEW 5 INCH MODEL

For small radius and call systems, etc. Furnished with semi-universal output transformer; net. 7000 ohms C.T., 2 lbs.

B9575. List. \$7.00. NET..... \$3.43

6 INCH MODEL

For table model radio sets, call systems, or small P.A. systems. Will handle power input up to 2 watts.

B9577. List. \$9.00. YOUR PRICE..... \$4.41

12 INCH MODEL

Large size super-sensitive speaker for large radio sets, or for multiple speaker call systems. Wt., 7 1/2 lbs.

B9579. List. \$12.00. YOUR PRICE..... \$5.88

8 INCH MODEL

Excellent for small portable radios, battery sets, office inter-communication systems, etc. Wt., 3 1/2 lbs.

B9576. List. \$8.00. YOUR PRICE..... \$3.92

10 INCH MODEL

Here's an ideal unit for those minimum powered replacement or original installations. Will handle 2 1/2 watts. Wt., 4 1/2 lbs.

B9578. List. \$10.00. YOUR PRICE..... \$4.90

FULL RANGE 12 INCH MODEL

A full-range 8 watt reproducer designed for large radio sets, record players, sound distribution systems, etc. Provides maximum sensitivity with highest possible efficiency. Wt., 8 lbs.

B9580. List. \$18.00. YOUR PRICE..... \$8.82

KNIGHT DYNAMIC SPEAKERS OUTSTANDING VALUES

- Universally Accepted by Discriminating Servicemen
- Incorporate Every Valuable Feature of Modern Design
- Quality Construction Gives Fine Frequency Response
- Cones and Voice Coils Built for Maximum Efficiency
- Ample Power-Handling Ability; Conservatively Rated
- Long Life Assured Even Under Continuous Operation
- All Speakers Equipped with Universal Transformers

KNIGHT 6 INCH DYNAMIC

A compact dynamic speaker capable of surpassingly smooth performance. Will satisfactorily fulfill all requirements for stator-type reproduction in medium-sized sets where space is limited. Carefully assembled of highest-quality components; rigidly inspected to assure a speaker mechanically and electrically correct in every detail. The sturdy construction of this speaker assures long trouble-free operation. Voice coil, 3/4" diameter; impedance, 3 1/2 ohms at 400 cycles. Available with field coils to meet requirements of either replacement or original installations. Each speaker equipped with universal type transformer for matching any single or push-pull output stage.



B9256. 6 Volt Field.

B9257. 1000 Ohm Field.

B9258. 1800 Ohm Field.

B9259. 2500 Ohm Field.

YOUR PRICE EACH.....

\$1.69

KNIGHT 8 1/2 INCH DYNAMIC

An ideal speaker for use with console receivers and small public address systems. Will handle full volume without overloading or distorting. Cone assembly designed to permit maximum flexibility of reproduction without objectionable resonant points. Correctly aligned voice coil and cone assure maximum efficiency. Heavy rigid frame assembly. Voice coil, 3/4" diameter; impedance, 3 ohms at 400 cycles. 3 1/2" overall diameter; only 4 1/2" deep. With universal output transformer.

B9260. 6 Volt Field.

B9261. 1000 Ohm Field.

B9262. 1800 Ohm Field Tapped at 300 Ohms.

B9263. 2500 Ohm Field.

YOUR PRICE EACH.....

\$2.40

KNIGHT 5 INCH DYNAMIC

Developed especially for use in the new compact receivers where space is at a premium. 6 volt model is ideal for use as replacement speaker for auto radios. An inexpensive speaker for replacement purposes in small metered or portable sets where cost must be held to a minimum, or where only limited space is available. Has excellent frequency response and will handle a surprisingly large amount of volume. Correct design and alignment of cone and voice coil assembly largely eliminates distortion even when delivering full volume. Voice coil, 3/4" diameter; impedance, 3 1/2 ohms at 400 cycles. 5" diameter, and 5 1/2" deep. Supplied with universal transformer to match all tubes.

B9255. 6 Volt Field.

B9256. 3000 Ohm Field.

YOUR PRICE EACH.....

\$1.48

KNIGHT 12 INCH DYNAMIC

An exceptionally well-built reproducer with excellent power handling ability. Designed to render the highest type of faithful reproduction and tone quality. Will handle up to 8 watts with a minimum of distortion and complete elimination of annoying rattles and "blasting". Ideal for use in large console type receivers, or for small indoor public address systems, call systems, etc. Sturdy construction combined with careful selection of materials assures maximum performance. Overall sensitivity far superior to similar speakers of the same physical characteristics. Equipped with universal output transformer to match any single or push-pull output stage. Shpg. wt., 8 1/2 lbs.

B9530. 6 Volt Field.

B9531. 1000 Ohm Field.

B9532. 2500 Ohm Field.

YOUR PRICE EACH.....

\$3.80



KNIGHT MAGNETIC SPEAKERS

RADIO'S GREATEST SPEAKER VALUES



- Complete Assortment of Sizes
- Sturdily Constructed for Long Life
- Ideal for "Second-Speaker" Use

6 INCH MODEL

B9252

\$1.59



5 INCH MODEL

B9251

\$1.13

8 1/2 INCH MODEL

B9253

\$1.78



A sturdy and powerful, small size magnetic speaker, only 8" in diameter. Has heavy pressed steel frame and arched magnet. Latest improved armature design; extra flexible diaphragm. Will handle up to 1 watt output. DC resistance, 1000 ohms. Especially recommended for battery or AC-DC set use, as an extension speaker, or in multiple-speaker installations. An ideal high quality all-purpose unit constantly in demand and priced low for profitable installations. Shipping weight, 4 lbs.

diameter. Pressed steel frame in oversized magnet. DC resistance is 1000 ohms. Unusually fine tonal response. An excellent replacement unit for all compact-type radio sets, or for use in multiple-unit installations and in Well-built for good service. A wonderful value at our low price. Shipping weight, 3 lbs.

Similar in construction to the smaller models, but is 8 1/2" in dia., 3 3/4" deep. Has extra flexible diaphragm and heavy-duty magnet. Will easily handle up to 1 1/2 watts of audio without distortion. Carefully assembled to insure long life and freedom from rattles and objectionable vibration. DC resistance, 1000 ohms. Ideal for battery set use and as extension speakers in hotel, school, and similar multiple-speaker installation. The scientific design and construction of this fine magnetic speaker results in excellent tonal performance. Shipping wt., 4 lbs.

Wright-Decoster HYFLUX MAGNETIC SPEAKERS



A new and improved type of magnetic speaker. Designed for use in both new and old construction. Compact assembly makes this speaker ideal for installation where space is at a premium, as in battery and auto sets, or in multiple extension speaker systems. Depth behind panel is less than 3 inches. Frequency response is unusually good. Rigidly constructed from finest materials for years of trouble-free service. All parts are fully shielded and protected against dust, grit, and other foreign matter.

B9317
6 INCH SPEAKER.
YOUR PRICE

\$2.45

B9318
8 INCH SPEAKER.
YOUR PRICE

\$2.94

KNIGHT 3 INCH MIDGET MAGNETIC SPEAKER



Here's the smallest efficient speaker you can buy. A high quality, well-designed magnetic speaker measuring only 3 inches in diameter. Intended especially for use in pocket-sized midget receivers, two-way communication systems, and small portable short-wave receivers. Strong, permanent magnets and 90% of full size, are mounted on a midget, thin pressed steel frame. May be mounted from front or back, in any position desired. Shpg. wt., 1 lb.

B9458

YOUR PRICE

98c

8 1/2 INCH MAGNETIC SPEAKERS GOTHIC CABINET MODEL



A fine table model magnetic speaker. Combines attractive appearance and excellent tone quality. Handsome walnut-finish cabinet is 11" high, 10 1/2" wide, and 6 1/2" deep. High quality magnetic speaker chassis is mounted in the cabinet. Speaker chassis is 8 1/2" diameter, 3 3/4" deep; has pressed steel frame, large magnet and improved armature structure. 1000 ohms DC resistance. Equipped with 3/4 ct. cord. This high grade speaker is ideal for use with battery sets, multiple speaker systems, extensions, etc.

B9444

YOUR PRICE

\$2.98

UTAH SPEAKERS ORTHOVOX PM TYPE



New type permanent magnet speaker at a really attractive price. Provides high quality reproduction which compares very favorably with that of the best electro-dynamics. Cone and driver assemblies are perfectly aligned, insuring freedom from rattles and vibration even at full volume. Equipped with chrome-steel permanent magnets and heavy-duty laminated armature, enclosed and protected from dust, grit, etc. Because no field excitation is required, this speaker is ideal for multiple speaker installations, or as an extension speaker for radio sets, etc. Available in several cabinet arrangements to match practically any tube combination. For types listed refer to Output Data below.

Model 5X-5" Diameter
Ideal for use in AC-DC midget sets. Will handle 1 1/2 watts. Shpg. wt., 2 lbs.

- B9219, Type A
- B9220, Type B
- B9221, Type C
- B9231, Type D
- B9232, Type E
- List, \$3.75. EACH

\$2.20

Model 6X-6 1/2" Diameter
Will handle up to 2 watts. A sturdy popular speaker. Shpg. wt., 3 lbs.

- B9222, Type A
- B9223, Type B
- B9224, Type C
- B9233, Type D
- B9234, Type E
- List, \$4.00. EACH

\$2.35

Model 8X-8" Diameter
Will handle up to 3 1/2 watts. Shpg. wt., 4 lbs. An excellent value.

- B9225, Type A
- B9226, Type B
- B9227, Type C
- B9235, Type D
- B9236, Type E
- List, \$4.50. EACH

\$2.65

Model 12X-12" Diam.
Will handle up to 5 watts. Heavy-duty model. Shpg. wt., 5 lbs.

- B9228, Type A
- B9229, Type B
- B9230, Type C
- B9237, Type D
- B9238, Type E
- List, \$7.00. EACH

\$4.12

OUTPUT TUBE DATA

	Single. 61A-39-40
TYPE A	Push-Pull. 6A4-10-12A-20-31-33-38-41-42-46-47-50-59-2A3.
	Class B*. 6A6-6F6-19-49-53-79-89.
	Single. 2A5-6A4-6F6-10-12A-20-31-33-41-42-46-47-50-88.
TYPE B	Push-Pull. 43-45-71A.
	Single. 43-45-71A.
TYPE C	Push-Pull. 2A3-48.
	Single. 500 ohm line.
TYPE D	1000 ohm line.
TYPE E	1000 ohm line.

* For Class B operation, connect a 1 watt resistor across two outside speaker terminals. The resistor value in ohms should be at least 5 times the total plate-to-plate load impedance.

WALNUT SPEAKER CABINET ONLY

Cabinet only as illustrated above. Very sturdy. Has beautiful walnut finish and attractive design. Will accommodate any speaker not over 8 1/2" in diameter, 11" high, 10 1/2" wide, 6 1/2" deep.

B9445

YOUR PRICE

\$1.40

SQUARE CABINET MODEL

A sturdily built modern, handsome square-type speaker cabinet finished in rich dark walnut. Equipped with new, improved 3 1/2" double-magnet, magnetic tone reproducer. An ideal extension speaker. Has gold-bronze finish, both front and back. Complete with 6 ft. cord. Size, 9 1/2" square x 5 1/4" deep. Shpg. wt., 5 lbs.

B9483

NET

\$3.05

B9484. Same as above, but with Volume Control and "On-Off" switch. Low resistor is thrown across line in "Off" position, so that volume of other speakers on same line is not affected. NET.....

\$4.50

JENSEN PERI-DYNAMIC SPEAKERS

Absolutely new. The "Peri-dynamic" (enclosed dynamic) principle permits superior baffling of the speaker, provides improved performance and positive speaker protection. The principle follows the theory of the operation of speakers in air-tight enclosures. The enclosure and the new Jensen 5" PM type "U" electro-dynamic speaker were designed for best acoustic results. The performance of the new Peri-dynamic is amazingly fine, and it is easily capable of handling a full watt continuous power without distortion. Enclosed in a wood cabinet finished in black lacquer and walnut. 12 1/2" wide x 10 1/2" high.

B9682

With 6 ohm voice coil.

Less transformer

B9683

With adjustable line transformer, 500, 1000, 1500, 2000 ohms.

B9684

With adjustable output transformer, 4500, 7000, 10000, 14000 ohms CT.

List, \$22.00.

NET EACH.....

\$12.94



\$12.20

REPLACEMENT PARTS FOR SPEAKERS



EXACT DUPLICATE FIELD COILS

Replacement field coils which exactly duplicate the originals physically and electrically. Perfectly impregnated against moisture.

We can supply field coils other than those listed below. If possible send sample with deposit, or specify inside dia. of hole, outside dia. of coil, length of winding, and resistance and we will supply of quote promptly.

Cat. No.	Set or Speaker	Res. Ohms	YOUR PRICE
B2950	Apex-Gloritone 26	11,500	\$1.47
B2951	Apex-Gloritone 26	11,500	\$1.47
B2952	Apex 26A	11,500	1.47
B2953	Apex 26P (Sldr.)	11,500	1.47
B2954	Apex 27	11,000	1.47
B2955	Apex-Gloritone SA	6,000	1.47
B2956	Apex-Gloritone 10B	6,000	1.47
B2992	AK 46, 47, 53	1,700	3.53
B2993	Brunswick 16	2,100	2.35
B2993	Brunswick 16	2,100	2.35
B2993	Brunswick 16	2,100	2.35
B2998	Crosley 260	10,000	2.25
B2998	Crosley 3145	2,500	2.82
B2995	Jensen D7, D8	1,500	2.59
B2960	Jensen D7, D8	2,500	2.94
B2996	Lytic 9	5,000	4.12
B2964	Magnavox 9"	2,500	3.82
B2965	Majestic G1	3,100	3.15
B2966	Majestic G2	2,730	3.15
B2967	Majestic G3	2,730	3.15
B2968	Majestic G5	7,530	4.70
B2997	Majestic G10F	710	1.59
B2975	Oxford Medium	1,000	2.79
B2976	Oxford Medium	2,000	3.53
B2977	Oxford Medium	1,000	3.53
B2978	Oxford Auditorium	1,500	2.25
B2979	Oxford Auditorium	2,500	2.94
B2980	Oxford Auditorium	4,000	1.95
B2981	Philo 20	3,100	1.18
B2982	Philo 20, 22, 45, 75, 95	2,200	2.65
B2970	Philo 20	2,000	1.18
B2983	RCA 45	2,500	2.25
B2986	RCA 106	6,000	2.94
B2987	RCA Philo	1,000	7.44
B2984	Stewart Warner 950, 10,000	4,700	4.70
B2985	Stewart Warner	10,000	2.35
B2988	Triplex (AK)	2,250	4.12
B2989	Victor R122, 45, 75, 2,930	2,79	

AC-DC FIELD COILS

For midjet 5" and 6" speakers. 1" inside dia., 2" outside dia. 2 1/2" high. Supplied with 3 gaskets to permit secure installation.

B2690	1,000 Ohm	List \$1.50
B2691	1,500 Ohm	NET EACH
B2692	2,000 Ohm	
B2693	2,500 Ohm	
B2694	3,000 Ohm	

We can supply field coils other than those listed. Specify capacity resistance.

REPLACEMENT DIAPHRAGMS FOR DYNAMIC UNITS

For all Racor and Western Electric units. Please specify model, type, and serial number of your unit. Unit may be shipped to us for installation of proper diaphragm at an additional cost of \$1.50 net.

B2672. For W. E. Units. **\$2.94**

B2673. For R. E. Units. EACH

SPEAKER CENTERING SHIMS

Celluloid spacers for centering and adjusting speaker voice coils and armatures. Flexible and tough. Kit includes: 4 shims-.005; 4 shims-.0075; 4 shims-.010; 4 shims-.0125. In handy compact leather case with separate marked compartments.

B2999. **YOUR PRICE 36c**

EXACT DUPLICATE SPEAKER CONES

Duplicate replacement cones accurately designed and carefully constructed to match the originals. One piece seamless material is used; more for enduring, non-rerun quality. An accurately wound voice coil is included with 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—\$1.10; 7" to 9" cones—\$1.50; 10" to 12" cones—\$1.55. 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
B9361	A.K. Pt. No. 15142		
B9362	A.K. Pt. No. 14374		
B9363	A.K. Pt. No. 19165		
B9371	Brunswick 11, 12, 9		1.47
B9372	Brunswick 15, 22, 32, 12		1.71
B9373	Brunswick 14, S14		1.71
B9367	Brunswick 31, 16		1.71
B9368	Brunswick 31, 82, S81		1.71
B9369	Crosley 448 Mod. 829		1.47
B9442	Grunow 650, 651, 661, 670, 750		1.47
B9443	Grunow 520		.98
B9374	Jensen D1, D2		1.71
B9375	Jensen D3		1.71
B9376	Jensen D9 (Outside spider)		1.70
B9377	Jensen D9 (Inside spider)		1.70
B9382	Jensen D10, D11, Air-line 33, Kennedy 42		1.41
B9378	Jensen D12, D14		1.41
B9379	Jensen D15		1.41
B9380	Jensen D16		1.32
B9381	Jensen D17, D18, D19		2.94
B9383	Jensen D19, D20		1.62
B9384	Jensen J1, J2, Stewart Warner 296A		1.03
B9347	Magnavox 130, 138, Airline 369, Crosley 369, Zenith A, B, C		1.47
B9348	Magnavox 130, 138, 401 85A		1.47
B9412	Magnavox D7, D8, D9, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z		1.62
B9386	Majestic G1		.84
B9387	Majestic G2		.71
B9388	Majestic G3		1.18
B9389	Majestic G5		.47
B9390	Majestic G10B		.47
B9391	Majestic G10C		.47
B9392	Majestic G10D		.47
B9393	Majestic G10E		.47
B9394	Majestic G10F		.47
B9402	Oxford (3 pt. spider)		1.62
B9403	Oxford (2 pt. spider)		1.41
B9404	Oxford (1 pt. spider)		1.47
B9405	Oxford Auditorium		2.35
B9436	Philo 17, No. 02861, mod. 6, 48, 50, 52, 80, 81		.59
B9406	Philo 87, 65, 95, 76		.82
B9407	Philo 70, 111, 90, 112		.82
B9408	Philo 69, 3, 7, 20, 21, 70		.73



Catalog No.	For Model	Outer Dia., in.	YOUR PRICE
B9408	RCA 104, 105	8	\$1.18
B9409	RCA 106, R50, R52, R56, R55, R30, R37, R34, R36, R35		1.18
B9410	RCA 48, RT, RTA, RS, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100		.88
B9290	RCA Pt. No. 9023, mod. 154		.59
B9291	RCA Pt. No. 8082, mod. 125, R28P, K22, R28W, R240, R430P, 100, 101, 110, 111, 114, 115, M116, 300, 301		.59
B9292	RCA Pt. No. 9428, mod. R37, R37P, R38, R38P, 112, 130, 12, 122, 124, 120B, 142B, 241B, 310, 320		.64
B9293	RCA Pt. No. 8021, mod. H1, H1B, SWA3, R24		.73
B9294	Rola F1		.82
B9295	Rola F5		1.03
B9296	Rola F8		1.18
B9297	Rola D9, D10		1.62
B9298	Rola Series K		1.47
B9413	U. S. Apex-Gloritone 26A (Spkr. 2847)		1.18
B9414	U. S. Apex-Gloritone SA (Spkr. 2801)		1.32
B9415	U. S. Apex-Gloritone 28 (Spkr. 2753)		1.18
B9416	U. S. Apex-Gloritone 28P (Spkr. 2753)		1.18
B9417	U. S. Apex-Gloritone 28A (Spkr. 2925)		1.32
B9418	U. S. Apex-Gloritone 27 (Spkr. 1936)		1.18
B9420	U. S. Apex 10B (Spkr. 2802)		1.47
B9421	Utah Stradium (66A)		1.70
B9428	Utah 1213 (3 point spider, 16 ohm voice coil)		1.70
B9429	Utah 121A (inside spider)		1.62
B9422	Utah Isocone		1.18
B9423	Wright DeCoster 101		1.71
B9424	Victor H252, 45, 75, 9		.95
B9425	Victor H152, 34, 35, (RCA 106)		1.18
B9441	Zenith 53, 72 (LL18), 124		1.70
B9426	Zenith 53		1.70
B9427	Zenith 92 (Jensen D9)		1.62

REPLACEMENT CONE VICTOR RE32, RE45 75 AND 72

Made of seamless reinforced fabric, coated with a special metallized lacquer. Truly non-rerun and designed for long life. Has accurately wound, perfectly centered voice coil. Advanced type of construction is a distinct improvement over the original. Cone size 9 inches.

B9424. YOUR NET PRICE... 95c



FIELD EXCITER

A useful field supply unit, using a type 80 tube as a rectifier. For converting a D.C. field speaker for A.C. operation. Furnishes 15 watts under normal use. Special filter reduces speaker hum. With 110 volt, 60 cycle transformer. Size 3 1/2 x 2 1/4 x 7 1/2 high. Wt., 5 lbs. Less tube. **\$2.94**

B9482. YOUR PRICE

SPEAKER CONE CEMENT

Readily cements speaker cones, paper rings and felt 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. Almost as important to have as the right cone.

B2931. **YOUR PRICE 24c**

RCA-VICTOR ANTENNA SYSTEMS & ACCESSORIES

NEW RCA MAGIC WAVE ANTENNA SYSTEM

- Easily Installed With Lengths from 20 to 120 Feet
- Versatile—No Doubtlets or Critical Lengths
- Up to 16 Outlets with Proper RCA Transformers
- May Be Mounted Easily in Any Position

A new all-wave antenna system offering many new features and opportunities for profit. Antennas may be mounted vertically or horizontally and from 20 to 120 feet in length. Special purpose leads from center of the aerial are eliminated. No critical lengths in doubtlets or transmission lines. As many as 16 sets may be used with only slight efficiency loss. New magnetic cores in antenna and receiving transformers give high efficiency from 530 to 23,000 K.C. and good noise reduction. Transmission lines may be buried. Factory-wired kit consists of: Receiver and Antenna Coupling Transformer; 20-foot Antenna Wire; 45-foot Transmission cable; 5-foot ground wire; 5-porcelain insulators and 5-ground clamp. **\$4.17**

- B7540. List. \$6.95. NET**.....
- B7541. Distribution Transformer. One is \$1.80** required for each 4 additional outlets. NET.....
- B7542. Set Coupling Transformer. One is \$1.50** required for each additional outlet. NET.....

RCA SPIDER-WEB ANTENNA

New communications type antenna system. Consists of a series of doublets with high efficiency transmission line. Functions as a "T" type antenna below 4000 Kc., and as a multiple-tuned circuit from 4000 to 23,000 Kc. Easy to install; has 30 foot span with 12 foot vertical clearance. The unique design of this antenna insures greater signal pickup on every band, bringing in more stations than ever before for quick installation.

SYSTEM CONSISTS OF:

- Complete assembly including: 6 coils of 7x22 stranded antenna wire in various lengths; 2 hangers; 1 coil of lead-in wire; receiver and antenna coupling transformers; 7 "U" clips; 2 antenna transformer connections; and complete installation instructions. **\$5.37**
- B7580. List. \$8.95. NET**.....



TRANSMISSION LINE
 Magic-Wave Transmission Line. May be used on single or multiple-outlet installations to extend the transmission line or to carry it along to other sets when more than one is used. RCA 8816.
B7543. 45 Foot Coil..... 90c

FOR UNDERGROUND USE
 A special transmission line is available for underground service. Can be buried. RCA 12430.
B7544. 45 Foot Coil..... \$1.20
B7545. RCA 12430 UNDERGROUND LINE. 90 Foot Coil..... \$2.25



U.F. KIT
B7581. Ultra High Frequency Kit. When added to the Spider-Web, will increase range to cover from 23 to 70 M.C. with complete noise rejection. **NET..... 90c**



RCA RK-40 ALL-WAVE ASSEMBLED ANTENNA

- Gives All-Wave Coverage
- Improves Broadcast Reception
- Comes Completely Assembled
- Easy To Install Anywhere

A scientifically designed All-Wave antenna of the "Universal Doublet" type. Completely assembled, ready to install; total span is only 48 feet. Noise pickup is eliminated by use of twisted pair transmission line. Improves reception on all bands. One of the very finest low-cost All-Wave aeriels available today.

HOW THE SYSTEM WORKS

The antenna itself acts as an efficient pickup medium, giving high signal strength on all short wave and broadcast bands. The transmission line conveys this energy to the coupling unit which automatically matches the line to the input circuit of the receiver.

KIT CONSISTS OF:

- 1 Complete antenna assembly, with end insulators, 75 feet transmission line, hermetically sealed antenna junction box, all completely assembled; 1 Receiver matching transformer; 2 Porcelain nail-on knobs; 1 Porcelain lead-in tube; 1 Adjustable ground clamp. **\$3.45**
- B7598. List. \$7.75. YOUR PRICE..... \$3.45**

ANTENNA INSULATORS

BEE-HIVE INSULATOR
 For supporting porcelain or instrumentations. Made of glazed porcelain. 2" dia.; 2 1/2" high. Extra strong and weatherproof. May be used outside to support lead-in or ground wires.
B6190. 10 FOR 84c. EACH..... 9c

PORCELAIN INSULATORS
 Glazed porcelain; coated for minimum leakage. Extra strong.
B6192. 2 1/2 inches long. 10 FOR 20c. 100 FOR \$1.85. EACH..... 2c
B6193. 4 inches. 10 LOTS, 45c. EACH..... 5 1/2c
B6194. 5 inches. 10 FOR 85c. EACH..... 9c

AIRPLANE INSULATOR
 Streamlined strain insulators, made of low-loss glazed porcelain. Ideal for breaking up antenna guy wires. Size 1 1/2" x 3/4". Weight, 3 oz.
B6217. 10 FOR 35c. 100 FOR \$2.50. YOUR PRICE EACH..... 3c

TRANSPONITION BLOCKS
 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".
B6215. 1/2". 3 oz. 10 FOR 30c. YOUR PRICE EACH BLOCK..... 6 1/2c

STAND-OFF INSULATOR
 Highest quality porcelain construction. 4 in. high. For efficient antenna installations.
B6191. 10 LOTS, 95c. EACH..... 10c

PTXK INSULATORS
 Strong rugged insulators, with low power loss and low surface conductivity. Built to withstand heat, cold, and other atmospheric conditions.
B3750. 3 1/2" long. For Receiving Aerials. EACH..... 20c
B3751. 7 1/2" long. Will handle up to 250 watts. NET EACH..... 75c

PORCELAIN NAIL KNOBS
 Sturdy split knobs of glazed white porcelain for holding lead-in and ground wire away from walls. Have alligator jaws for sure grip of wire. Leather washers prevent splitting. 1 1/2" high, 1 1/4" diam. 3/4 lb. each.
B3418. 10 FOR 21c. 100 FOR \$1.75. EACH..... 2c

CAGE AERIAL SPREADER
 Porcelain spreaders for C.A. systems. Sturdily constructed of special moisture-proof porcelain. Unglazed. High in insulating properties, with long leakage path. 2 1/2" x 2 1/2" x 1 1/2".
B6216. 1/2". 3 oz. 10 FOR 90c. NET EACH..... 10c

STAND-OFF INSULATORS
 High-grade glazed porcelain construction with deep corrugations. Nickel-plated brass hardware.
B6148. 3 1/2" in. high, with base 2 1/4 inches square. NET EACH..... 37c
B6149. 3 1/2" in. high, with base 1 3/4 inches square. NET EACH..... 18c

GLASS INSULATORS
 Absolutely climatic-proof. Extreme dielectric; designed for great strain. 3 in. long. Inexpensive sturdy insulators.
B6196. 10 FOR 27c. 100 FOR \$2.50. NET EACH..... 3c

STRAIN INSULATOR
 Brown porcelain construction. 2 1/2" long, 1 1/2" dia. Unusually strong.
B6195. 10 LOTS, 5c. EACH..... 6c

CROSSOVER INSULATOR
 Designed for use with double-doublet antenna systems. Made of a low-loss ceramic compound. Glazed. Will not absorb moisture.
B5548. EACH..... 7c

PORCELAIN TUBES
 Durable, non-absorbent porcelain, with smooth finish inside and out. Flanged at one end to avoid driving in too far. Inside dia. 5/8".
B6212. 3" Long. 10 FOR 18c. EACH..... 2c
B6213. 6" Long. 10 FOR 24c. EACH..... 3c

EYE WALL INSULATOR
 Bakelite center mounted in galvanized steel. **NET EACH..... 3c**
B3430. 3 INCH. 10 FOR 21c. NET EA..... 2c
B3431. 7 INCH. 10 FOR 32c. NET EA..... 3c

ANTENNA INSULATORS
 Made of white glazed, wet process porcelain. Have great dielectric and tensile strength. Very low capacity, low leakage. For transmitting or receiving aeriels. All 1" diameter.
B3416. 12 in. long. NET EACH..... 29c
B3417. 20 in. long. NET EACH..... 39c

FEDDER SPREADER
 Made of high-grade white glazed porcelain. For correct spacing of parallel antenna feeds. Reduces electrical loss. 5/8" wide x 1 1/2" thick.
B6218. 3 1/2" long. NET EACH..... 6c
B6219. 5/8" long. NET EACH..... 14c

All-Wave ANTENNA KITS & EQUIPMENT



FOR PHILCO SETS
Fully assembled, ready for immediate erection. Off-center-fed doublet type designed to offer an exact match to the Philco Input circuit. Has scientifically correct receiver coupler.
B3381, NET..... \$2.56

FOR GRUNOW SETS
An All-Wave type antenna. Designed to operate at peak efficiency with Grunow All-Wave sets. Will tap up reception on all bands and reduce extraneous noises. Substituted in kit form.
B3382, NET..... \$2.08

FOR ZENITH SETS
Balanced doublet type with noise-rejecting transmission line. Permits greater distance reception on all bands. Designed for maximum performance with Zenith sets.
B3383, NET..... \$2.32

KNIGHT ANTENNA KITS FOR POPULAR SETS

Now there is available maximum all-wave reception from popular sets. These new Knight Antenna Kits have been carefully designed to exactly fit the requirements of the particular set for which they are listed. Each component unit is of the highest quality. These kits are noise-reducing and famous for greater signal pickup. A worth while investment for improved set performance.

FOR RCA-VICTOR SETS
A complete efficient doublet-doublet all-wave antenna. Developed especially for use with RCA-Victor sets. Provides maximum signal pickup on all bands. Eliminates interfering noises.
B3384, NET..... \$2.32

FOR GENERAL ELECTRIC SETS
Scientifically designed "V" type doublet antenna. Fully assembled, ready for immediate erection and use with General Electric sets. Develops uniform reception performance on all wave bands.
B3385, NET..... \$2.32

FOR ALL KNIGHT SETS
A complete high-grade aerial designed for maximum efficiency with all Knight radio sets. Increases signal strength on short waves. Decreases noise. Fully assembled.
B3387, NET..... \$1.81



KNIGHT LOW-COST UNIVERSAL ANTENNA KIT

A complete kit of essential parts. Enables you to erect the most efficient type of antenna for your particular set. Includes sufficient material for an antenna of the "Marconi," "Doublet," "Double-Doublet," or "Matched Impedance" type, whichever you prefer. A low-priced efficient universal antenna kit which will improve signal pickup on any type of radio receiver. Particularly recommended for use with Knight receivers.

KIT CONSISTS OF:
100 ft. coil stranded aerial wire; 50 ft. coil rubber-covered twisted transmission line; Porcelain crossover block; 4 glass insulators; 2-1/2" screw eyes; Doublet type lightning arrester; Doublet window strip; 1 ground clamp; 1 antenna coupler; complete instructions.
\$1.81
List. \$4.00. NET.....

ALL-DIRECTIONAL AERIAL

Increases the selectivity and sensitivity of any set. An unusually efficient antenna of new design. Permits a completely All-Directional reception. Will materially improve reception on short wave bands; makes possible improved efficiency on standard broadcast band. May be quickly installed with a screwdriver. Eliminates all mast, poles, long aerials, dangling wires, etc. Requires only a very small space for mounting. Furnished with mounting hardware. Weight, 4 lbs.
B10010, NET..... \$1.79
100 Lots, \$4.50. YOUR PRICE..



TENSION INSULATOR

A double-purpose insulator which holds antenna tight by means of a heat shrink. May be used with any antenna.
B11297, YOUR PRICE..... 7c

GUY WIRE
50 foot coil of special galvanized steel wire. Tough and non-stretching. Annelor for easy handling. For use with steel masts.
B11298, NET..... 15c



ADJUSTABLE ANCHOR
Specially designed to adjust while anchor for keeping guy wires tight. Rust-proof steel.
B11299, NET..... 9c



AERIAL ACCESSORIES

MUELLER CLAMP
Durable and rigid because of channeled construction. Case-hardened screw. Cadmium plated.
B6508, Lots of 10, 48c
100 Lots, \$4.50. 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.
B3599, EACH..... 3c
10 Lots..... **25c**

KNOC-OUT GROUND CLAMP
An efficient and easily attached clamp which makes sure contact.
B3429, Per 10, 35c
NET EACH..... **4c**

AERIAL CONNECTOR
For connecting aerial and lead-in cables in either auto or home aerial systems. Cadmium plated.
B3421, EA..... 5c

INSULATED STAPLES
S a d u l e type insulated staples. Strongly, durable and very useful. Packed 100 to the box.
B3975, Per Box of 100..... 10c
Per 1000 (10 Boxes)..... **95c**



WINDOW LEAD-IN

Fits between sash and sill. Phenolic connector on each end. Duo insulated brand.
B3428, 16 inch. NET EACH..... 5c
B3427, 12 inch. Per 100, \$2.85. NET EACH..... 4c

DOUBLE-WINDOW LEAD-IN
Designed for use with any two wire lead-in, or transmission line. Completely insulated; with screw terminals; 12" long.
B619B, YOUR PRICE. 9c

AERIAL SPRING ADJUSTER
Prevents antenna sag. Powerful, compression type rust-proof spring. With porcelain insulator end caps. Especially suited for doublet type antenna to prevent swaying.
B3419, List \$2.00. YOUR PRICE..... 29c

SPRING AERIAL
Especially stretchable where space is limited. Easy to erect. Is unidirectional. Stretch of 15 to 30 ft. With two three end insulators.
B3433, YOUR PRICE..... 11c

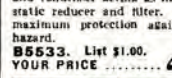


LIGHTNING ARRESTERS

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.
B5533, List \$1.00. YOUR PRICE..... 43c

APPROVED PORCELAIN ARRESTER
A high grade dependable air gap type arrester. Porcelain construction. An unusual value.
B3426, 12 FOR 75c. EACH..... 7c

NEW DOUBLET ARRESTER
Two arresters combined in one single unit. May be used indoors or outdoors for any two wire lead-in or transmission line. B i a e k porcelain case; weather-proof. Weight, 1 lb.
B5549, YOUR PRICE 17c



BABY BAKELITE ARRESTER

Absolutely dependable, safe, weatherproof type. Bakelite construction. Extremely compact to fit anywhere. Approved by the Underwriters' Laboratories. Gives ample protection.
B6199, 10 FOR 80c..... 9c
100 FOR \$7.25. EACH..



BUD ARRESTER
Underwriters' approved. Highly protective against lightning hazards. Also improves reception by rejecting static charges. Brown porcelain construction.
B3420, YOUR PRICE EACH..... 25c

STORM KING ARRESTER
A new improved type lightning arrester that will provide positive protection. Absolutely as-tries against dangerous static discharges. Duplex type for use with doublet aeri-als, or any aerial using a two-wire lead-in. Screw type terminals; weatherproof; may be installed indoors or outdoors.
B3432, NET..... 53c



AERIALS AERIALS AERIALS

TACO ALL-WAVE AERIALS

MODEL 210 DE LUXE SELF-SELECTING



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; 1—Receiver Transformer; 2—30 foot coils stranded aerial wire; 75 foot weather-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**
YOUR PRICE

MODEL 510 STANDARD ALL-WAVE AERIAL

This high quality, factory-assembled antenna is designed to eliminate interference on the broadcast band and all short wave bands. Matches all sets and provides greater signal-to-noise ratio in any location. Consists of: 1—Antenna Transformer; 1—Set Transformer; 2—30 foot coils stranded aerial wire, and 60 foot transmission cable, all completely assembled at factory and ready for installation; 1—screw-eye; 2—nail knobs; 2—glass insulators, and complete instructions. **\$2.65**
YOUR PRICE

MODEL 400 JUNIOR ALL-WAVE AERIAL

An inexpensive self-selective all-wave antenna. Easily erected in very limited space. Specially designed for trouble-free operation. Will improve the operation of any radio set. Consists of: 1—Antenna Transfer Unit; 1—Set Transformer; 2—30 foot coils stranded aerial wire—all factory assembled; 1—screw eye; 2—nail knobs; 2—glass insulators. With complete instructions for easy installation. **\$2.20**
B7900. List, \$3.75. YOUR PRICE

MASTER AERIAL FOR HOTELS, ETC.

A multiple antenna system for Hotels, Apartment Buildings, etc. Specially designed to provide noise-free reception to as many as 25 receivers, with efficient signal pickup on all bands. Ideal for "dedicated" demonstration rooms. Master Foundation Kit contains: 1—50 foot and 1—22 foot coil of 7x20 tinned copper aerial wire; 1—Transfer unit; 1—35 foot coil transmission line; 2—7 inch insulators; 2—strain insulators, and 1—double lightning arrester. **\$3.53**
B7905. Master Foundation Kit No. 301. List, \$6.00. NET

B7908. TYPE 302 RECEIVER COUPLER. For exposed wiring. May be conveniently mounted below window ledge or in radio cabinet. One required for each set. **\$1.47**
YOUR NET PRICE, EACH



DX LIFETIME AERIALS

Efficient non-directional antennas, fully-assembled. Designed to increase selectivity and reduce interference. Especially suitable for successful short wave reception. Convenient form makes installation easy anywhere. Built of 7x24 stranded enamel copper wire with 3/8" spacer rings. Assembled with two porcelain insulators and with 25 feet of rubber-covered lead-in wire soldered on.

No. 66 Length, 50 ft. 5 spacer rings. Contains 250 ft. wire. Shpg. wt., 4 lbs. **\$2.79**
YOUR PRICE

No. 26 Length, 20 ft. 5 spacer rings. Contains 100 ft. wire. Shpg. wt., 2 lbs. **\$1.75**
YOUR PRICE

No. 46 DOUBLET SYSTEM

A new double-type case antenna designed for broadcast Short-Wave reception. Ideal for use with an All-Wave or Broadcast set. Consists of: 2—20 ft. case aerials completely assembled with 25 ft. twisted pair lead-in. Each case has 3 spacer rings and contains 100 ft. of wire. Should be used with an All-Wave Coupler for maximum efficiency. Weight, 4 lbs. **\$3.59**
B9138. YOUR SPECIAL PRICE

No. 25 DOUBLET SYSTEM

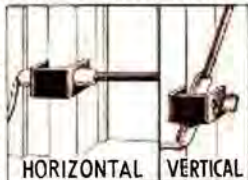
A noise-reducing aerial for use with all-wave receivers where space is at a premium. Only 10 ft. long. Each 5 foot case contains 25 ft. of wire, connected to 25 ft. of twisted pair weather-proof lead wire. Includes 4 antenna insulators and instructions. **\$1.55**
B9139. YOUR SPECIAL PRICE

B9140. NO. 50 DOUBLET SYSTEM. Same as above **\$1.91** but with 50 feet of twisted pair lead-in. NET

TOBE WINDOW POLE ANTENNA

FITS ANY WINDOW PROVIDES FINE SIGNAL PICKUP

Designed especially for radio set installations in hotels, apartment houses, etc., this new antenna includes signal pickup far superior to the ordinary indoor aerial. Quickly and easily attached to any window sill or frame, extends a full eight feet from the building. Ideal for temporary use; requires no tools in install. Has strap-type lead-in strip.



HORIZONTAL VERTICAL

DUAL POSITION MOUNTING BRACKET

Unique two-way mounting bracket permits either semi-vertical or horizontal installation. Antenna rod is drawn steel in three demountable sections with slip-on sockets for rapid, easy assembly. Particularly suitable for use by tourists, travelers, etc., providing perfect reception from portable radio sets. Has heavy cast end bracket fitted with wing-screw fastener. Has gum-amber insulator. Finished in neat satin black. **\$1.15**
B10482. List, \$1.95. YOUR PRICE

DOUBLE-TUNED AERIAL ELIMINATOR



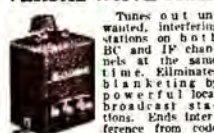
This carefully designed unit will help to increase the selectivity of any radio. Ideal for AC-DC sets to increase power and distance reception. Compact and efficient; eliminates noises. Easy to install. Has movable arms to match impedance of receiver. **\$9.00**
B2750. List, \$1.00. NET. **\$9.00**

AERIAL ELIMINATOR AND ANTENNA TUNER



This new device operates as a noise reducer when used with an outside aerial. May also be used by itself as an indoor aerial. Easily installed; works with any receiver; will improve reception; increases volume on weak stations. **\$5.54**
List, \$1.00. **\$9.00**
YOUR PRICE

MEISSNER DUAL UNIVERSAL WAVE TRAP



Tunes out unwanted, interfering transmissions on both BC and IP channels at the same time. Eliminates all interfering by powerful local broadcast stations. Ends interference from code or long wave stations. Ranges are 120 KC to 700 KC, and 400 KC to 400 KC. Dual control. Extremely sharp tuning. Signals 200 KC off are not noticeably attenuated. **\$5.79**
List, \$2.65. **\$1.56**
YOUR PRICE

RCA UNIVERSAL WAVE TRAP

Traps out interference occurring between 430 KC and 1700 KC. Eliminates annoying code signals, interferences and broad banding. Will not interfere with SW reception. Quickly and easily attached to any radio set. Completely shielded. Has universal mounting. Assures interference-free radio reception. **\$7.59**
RCA No. B2657. List, \$2.65. **\$1.59**
NET

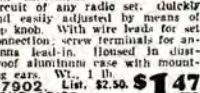


DYNATROL FILTER AND INDOOR ANTENNA

Combination indoor aerial and line noise filter. Plugs into light socket. May be used with regular aerial to gain increased pickup. Reduces noise and improves set sensitivity. Highly efficient. **\$5.18**
List, \$1.00. **\$3.00**
YOUR PRICE

NOISE-REJECTING TACO SET COUPLER

A new Taco variable impedance antenna-matching unit. Designed to provide an accurate match between any antenna transmission line and the input circuit of any radio set. Quickly and easily adjusted by means of 50 knob. With wire leads for set connection; screw terminals for antenna lead-in. Housed in dust-proof aluminum case with mounting ears. Wt. 1 lb. **\$7.90**
List, \$2.50. **\$1.47**
YOUR PRICE



RECEIVER MATCHING TRANSFORMER

A compact and well-made unit for matching the transmission line of any doublet aerial to any All-Wave or Short Wave receiver. Provides a very efficient match between antenna and receiver. Works with transmission line to eliminate noise and increase signal strength on all bands. Has changeover switch for all-band operation. Will give very effective results in increased sensitivity and greater signal pickup. **\$5.45**
List, \$1.50. YOUR PRICE **\$1.00**



Belden RADIOS PRODUCTS



BELDEN MAGNET WIRE

Highest grade soft-drawn copper wire, uniformly insulated. Each spool is one continuous length, uniformly drawn. Standard R & S grades for winding coils, clocks, etc. On convenient small-sized metal spools. Absolutely the finest quality magnet wire you can buy.

PLAIN ENAMELED

No. 1/2 LB. SPOOLS		NET	
No.	Size	Feet	Price
B3900	14	39	\$0.34
B3901	16	63	.34
B3902	18	101	.34
B3903	20	160	.34
B3904	22	254	.34
B3905	24	402	.36
B3906	26	610	.41
B3907	28	1013	.44
B3908	30	1510	.49

No. 1/4 LB. SPOOLS		NET	
No.	Size	Feet	Price
B3909	32	1275	.34
B3910	34	2010	.41
B3911	36	2920	.49
B3912	38	5120	.65
B3913	40	8140	.90

DOUBLE COTTON

No. 1/2 LB. SPOOLS		NET	
No.	Size	Feet	Price
B3950	18	96	\$0.41
B3951	20	150	.44
B3952	22	235	.48
B3953	24	362	.56
B3954	26	550	.65
B3955	28	800	.78
B3956	30	1221	.93
B3957	32	1850	1.13
B3958	34	2740	1.41

No. 1/4 LB. SPOOLS		NET	
No.	Size	Feet	Price
B3959	28	430	.46
B3960	30	680	.52
B3961	32	965	.63
B3962	34	1373	.77
B3963	36	1675	.98

DOUBLE SILK

No. 1/2 LB. SPOOLS		NET	
No.	Size	Feet	Price
B3980	18	90	\$0.58
B3981	20	160	.60
B3982	22	252	.67
B3983	24	395	.77
B3984	26	570	.90
B3985	28	980	1.02
B3986	30	1350	1.19

No. 1/4 LB. SPOOLS		NET	
No.	Size	Feet	Price
B3987	26	310	.59
B3988	28	490	.68
B3989	30	710	.82
B3990	32	1070	1.03
B3991	34	1580	1.34
B3992	34	1285	1.14
B3993	36	2085	1.56

CELANESE-WRAPPED PUSH-BACK WIRE No. 20 Solid

An unusually high grade of hookup wire for radio purposes. Conductor is solid number 20 tinned copper. Push-back insulation is Celanese, covered overall with laminated and colored cotton braid. 25 foot spools.

No.	Color	NET EACH
B2450	Red	
B2451	Blue	
B2452	Green	
B2453	Black	24c
B2454	Yellow	

No. 26 Stranded

Same high grade insulation as above, but conductor is 10 strands of number 26 tinned copper wire.

No.	Color	NET EACH
B2455	Red	
B2456	Blue	
B2457	Green	26c
B2458	Black	
B2459	Yellow	

No. 14 Stranded

Similar to above but extra-heavy design makes it ideal for use in the filament circuits of multi-tube receivers, transmitters, and power amplifiers. Number 14 conductor is made up of 14 strands of number 20 copper wire.

B2460	25 foot spool.	44c
B2461	25 foot spool.	44c



All-Rubber Cord Sets

The modern safe cord for replacement on lamps, radios, etc. Small soft rubber blue and brown No-Fray cord. 1/2 ft. approved cord.

B2447	EACH.....	23c
B2448	Same as above but 12 ft. long. NET EACH.....	28c

COMMUNICATING SYSTEM CABLES

Twisted pair cables especially designed for inter-communication systems. Conductors are No. 20 stranded; celanese and cotton-wrapped, with overall cotton braid. Color-coded for easy identification.

Cat. No.		NET PER FOOT		Cat. No.		NET PER FOOT	
No.	Confd.	Feet	Price	No.	Confd.	Feet	Price
B2906	2 (1 pr.)	2c	1/2c	B2310	8 (4 pr.)	8c	7c
B2907	4 (2 pr.)	4c	2c	B2311	16 (8 pr.)	16c	14c
B2908	6 (3 pr.)	7c	4c	B2312	20 (10 pr.)	19c	16c
B2909	8 (4 pr.)	9c	5c	B2313	over tw. pr.	25c	2c
B2910	1 (shielded)	7c	2 1/2c				

BELDEN AUTOMATIC FREQUENCY SELECTING ANTENNA SYSTEMS No. 8907 DOUBLE TUBE



A radically new application of time-proven principles. The Belden International Couplers and 72 ohm Transmission Line have been especially designed for an improved method of reception on both the broadcast and short wave bands. Tests prove that not only are better results obtained but that noise pick-up is practically eliminated. Antenna and receiver transformers provide different frequency channels for incoming signals, and the system is tuned by the receiver itself. Complete factory-assembled kit includes 2-30 1/2 ft. coils (Belden-made aerial wire); 1-75 foot coil (twisted pair lead-in wire); 25 feet of ground wire; 1-each, Automatic Antenna and Receiver Couplers; hardware, etc. Complete with instructions.

B2404, List, \$7.70. NET.....

No. 8901 DOUBLE DOUBLE TUBE SYSTEM

The Belden No. 8901 Double Double Antenna System is similar to but even more efficient than the No. 8907 antenna described above, by reason of the addition of a second double. Complete factory-assembled kit consists of 2-30 1/2 ft. coils and 2-12 foot coils 7x2 stranded aerial wire, 75 foot transmission line, 25 foot ground wire, 1-each, Automatic Antenna and Receiver Couplers; hardware, etc. Complete with instructions.

B2405, List, \$8.75. NET.....

No. 8912 STANDARD ALL-WAVE SYSTEM

The Belden Double-Double has long been the choice of experts for maximum signal strength and greatest noise reduction. Ideal for broadcast and short-wave reception. Complete factory assembly includes 4 coils 7x2 aerial wire, outside and inside lead-in wire, ground wire, insulators, receiver coupler, junction block staples, nail knobs, ground clamp, double arrester, lead-in strip, and full instructions.

B2407, List, \$7.70. NET.....

LEAD-IN WIRE

ALL RUBBER

Stranded conductor, covered with special rubber insulation to allow easy stripping and soldering.

SHIELDED

Heavy rubber insulation over stranded conductor. Overall shield of tinned lead-in copper wire. Ideal for shielded lead-in use. Weatherproof.

No.	Size	Length	NET
B2422	14	50 ft.	\$0.69
B2423	14	250 ft.	3.18
B2424	16	50 ft.	1.32
B2425	16	250 ft.	1.90

MATCHED IMPEDANCE TWISTED PAIR LEAD-IN

12 ohm twisted pair transmission line. Two No. 19 conductors covered with color-coded rubber and weatherproof outer braid. Designed to match most all-wave antennas and receivers.

B2324	75 Foot Coil.....	95c
B2325	500 Foot Coil.....	\$5.97

COMMERCIAL TYPE TWISTED PAIR

33 ohm surge impedance. Two No. 22 (7200) tinned conductors with overall weatherproof braid covering; color-coded rubber and braid insulation.

B2326, 75 Foot Coil..... 87c

B2327, 500 Foot Coil..... \$5.69

TRANSISTOR TYPE TWISTED PAIR

72 ohm line designed for transmitting use. Two No. 12 conductors have ample capacity for 2000 watts output. Weatherproof insulation 10/2c.

B2328, 100 Ft. Coll. \$3.78

B2329, 500 Ft. Coll. \$18.74

AERIAL WIRE BELDENAMEL

High conductivity aerial wire. Ideal for all types of broadcast, All Wave and Short Wave receivers. Belden-made insulation. 1100 meters the wire from corrosion and atmospheric conditions indefinitely.

7x12 ENAMELED

B2410	75 ft.	
B2411	75c. NET.....	46c
B2412	100 ft.	61c
B2413	150 ft.	91c
B2414	1000 ft.	\$6.03

7x26 ENAMELED

B2415	100 ft.	\$1.18
B2416	1000 ft.	\$11.76

SOLID ENAMELED

B2418	No. 10, 100 ft. NET.....	\$1.05
B2419	No. 12, 100 ft. NET.....	75c
B2420	No. 14, 100 ft. NET.....	48c



BAKELITE ARRESTER

Underwriters approved. Provides positive protection. Sturdy and compact. Bakelite body suitable for inside or outside use.

B2403, 10 for \$1.40. EACH..... 15c



DOUBLE ARRESTER

For complete protection with any double antenna system. Mount anywhere.

B2409, NET..... 21c

AERIAL WIRE AND EQUIPMENT

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. Shipping wt. 6 lbs.

\$34.86
NET

63c

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: 50 feet of 7 strand 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. Complete instructions are included. Shipping wt. 4 lbs.

\$34.86

YOUR SPECIAL PRICE.

37c

ALL-PURPOSE LEAD-IN WIRE

RUBBER COVERED LEAD-IN WIRE



Stranded Wire

Stranded lead-in wire. Flexible and easy to work.

No.	Ft.	10 for	EACH
B3479	25	\$1.05	\$0.11
B3480	50	2.02	.21
B3481	100	4.00	.4
B3497	250	9.95	1.01
B3482	1000	.....	3.96



Solid Wire

High quality No. 16 rubber covered lead-in wire. Weatherproof.

No.	Ft.	10 for	EACH
B3475	25	\$1.14	\$0.12
B3476	50	2.18	.23
B3477	100	4.27	.45
B3467	250	10.65	1.11
B3478	1000	.....	4.34



SHIELDED LEAD-IN

For broadcast use. No. 18 stranded tinned wire, with tough, live rubber non-retroting. An all-weather wire.

B3492	50 ft.	.....	49c
B3494	100 ft.	.....	96c
B3499	250 ft.	.....	\$2.38
YOUR PRICE			



COMBINATION LEAD-IN AND AERIAL WIRE

10 strands of No. 30 copper wire, insulated with Gutta Percha. Free-stranding. Non-retroting. An all-weather wire for aerial, lead-in and set hooking.

No.	Length	NET
B3471	25 ft.	\$0.13
B3470	50 ft.	.25
B3469	100 ft.	.48
B3466	250 ft.	1.12
B3468	1000 ft.	4.65



FLEXIBLE INDOOR ANTENNA WIRE

For A.C., D.C. and midge set kits. Moisture-proof brown cotton covering. May be inconspicuously installed under rugs or around moldings.

B3483	100 Feet.....	45c
B3484	25 Feet.....	15c

TWISTED PAIR SHIELDED LEAD-IN



For all wave or short wave aerials. 8-12 id copper conductors; weather-proof insulation with closely woven copper shielding overall.

B2487	50 Ft.	.....	90c
YOUR PRICE			
B2488	100 Ft.	.....	\$1.71
YOUR PRICE			
B2489	250 Ft.	.....	\$4.20
YOUR PRICE			



WEATHERPROOF TWISTED PAIR LEAD-IN

For use as low-impedance transmission line with noise-reducing aerials. Two-stranded copper conductors, rubber covered. Paraffin braided over all.

B2434	50 ft. coils.	.....	50c
NET EACH			
B2432	100 ft. coils.	.....	95c
NET EACH			
B2437	250 ft.	.....	\$2.35
COILS, NET EACH			
B2433	500 ft.	.....	\$4.45
COILS, NET EACH			



RUBBER TWISTED PAIR LEAD-IN

For all noise-reducing aerial systems employing a double or double-doublet antenna. Low impedance No. 20 twisted black rubber covered multi-stranded conductors.

B3486	50 ft. NET.	.....	45c
B3489	100 ft.	.....	88c
YOUR NET PRICE			
B3491	250 ft.	.....	\$2.10
YOUR NET PRICE			



FLEXIBLE SPAGHETTI

For installing his bar wire, and condenser and resistor detail leads. Fine ramble tubing impregnated with varnish.

B2895	Black, Per 30' Leth.	.....	6c
B2896	Yellow	.....
B2897	Red	.....
B2898	Green	.....
10 LENGTHS			55c

AERIAL WIRE VALUES

Exceptionally high-quality hard-drawn copper wire. Has high conductivity and very little "stretch". Enamelled wire will not corrode. Ideal for all types of aerials: single wire, doublet, or cage-type, for All-Wave, Short-Wave, or Broadcast sets. Service men take advantage of these low prices to increase your aerial wire profit.



STRANDED ENAMELED

7 STRANDS No. 22	Excellent for All-Wave aerial.
B3444	50 ft.
10 for \$2.38. EACH	25c
B3445	100 ft.
10 for \$4.60. EACH	49c
B3446	200 ft.
10 for \$9.20. EACH	95c

7 STRANDS No. 20	A fine value in a light wire.
B3447	50 ft.
10 for \$1.25. EACH	14c
B3448	100 ft.
10 for \$2.40. EACH	26c
B3449	200 ft.
10 for \$4.75. EACH	51c

7 STRANDS No. 20	Heavy-duty wire for long life.
YOUR PRICE	47c
B3441	100 ft.
YOUR PRICE	92c
B3442	200 ft.
YOUR PRICE	\$1.80

SOLID ENAMELED

Hard-drawn solid enameled copper wire for a-milting and receiving.

No.	Gauge	Feet	EA.
B3450	10	100'	\$0.93
B3451	10	200'	1.77
B3452	10	500'	4.20
B3453	12	100'	.60
B3454	12	200'	1.10
B3455	14	100'	.75
B3456	14	200'	.75



WIRE FOR FARM POWER PLANTS

Weatherproof single conductor wire for use with Windcharger or Farm Power plants. Solid copper conductor; triple coating - covered and impregnated. For battery charging, use wire as follows: At a distance of 75 feet from charger to battery, use No. 6; at 50 feet, use No. 8; at 25 feet, use No. 10; at 15 feet, use No. 12. For a single 6 volt 25 watt lamp; 150 feet from battery, use No. 8; 75 feet, use No. 10; 50 feet, use No. 12; 30 feet or less, use No. 14.

No.	Size	100 Ft.	Per Ft.
B2490	6	\$5.25	5 1/2c
B2491	8	4.50	5c
B2492	10	3.10	3 1/2c
B2493	12	2.65	3c
B2496	14	1.25	1 1/2c



TWISTED LAMP CORD

Approved by the underwriters. No. 18-1/22 rubber insulation with black cotton braid. For extension or A.C. line cords.

B592	Per foot.	.....	2c
NET			
B3593	Per 100 Ft.	.....	\$1.45
NET			



A high grade flash cord for use on radios, lamps, amplifiers, etc. 6 foot reel with rubber plug.

B3498	YOUR PRICE	16c
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STRANDED BARE

7 STRANDS No. 22	Standard size for all aerials.
B3435	50 ft.
10 for \$1.90. EACH	20c
B3436	100 ft.
10 for \$3.65. EACH	39c
B3437	200 ft.
10 for \$7.25. EACH	75c

7 STRANDS No. 20	An excellent buy in thin wire.
B3438	50 ft.
10 for \$1.14. EACH	12c
B3439	100 ft.
10 for \$2.09. EACH	22c
B3440	200 ft.
10 for \$3.80. EACH	40c

7 STRANDS No. 20	Heavy wire for added strength.
B3472	50 ft.
10 for \$3.40. EACH	35c
B3473	100 ft.
10 for \$6.65. EACH	68c
B3474	200 ft.
10 for \$13.10. EACH	\$1.32

PHOSPHOR BRONZE

Strongest aerial wire. Has high conductivity; non-stretching. Used commercially on ships.

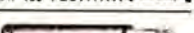
No.	Size	Ft.	NET EA.
B3460	1/8"	100	\$1.10
B3461	3/32"	200	2.15
B3462	1/4"	100	.75
B3463	3/16"	200	1.45
B3464	1/2"	100	.50
B3465	3/8"	200	1.15



HANDYCORD LAMP CORD

Itubex-jacketed flexible cord; each conductor is No. 18 stranded copper wire, statically insulated in tough rubber sheath that splits down center when pulled apart. Fine for lamps, radios, etc.

B3410	Black.	PER FOOT	.....
B3412	Black.	.....	1c
B3413	White.	.....	1c
B3411	Ivory.	.....	1c
B3414	Green.	.....	1c
PER 100 FEET.....			\$1.24



RUBBER SERVICE CORD

Round flexible weather-proof cable. No. 18 (10/30) stranded wire conductors, each rubber covered and robed, with cotton strapping and outer live rubber sheath.

B2435	2 COND.	.....	31c
100 FT. \$2.95. PER FT.			
B2436	3 COND.	.....	4c
100 FT. \$3.75. PER FT.			

TEST-LEAD WIRE

Extra-flexible No. 18 test lead wire. Ideal for repairing without test-jump leads or for making new test equipment. Made of 4 strands of No. 34 tinned copper wire, with waxed cotton wrapping, covered by 1/32" wall of rubber.

B2385	RED.	.....	6c
B2386	BLACK.	.....
5 FOOT COILS. EACH.....			1c
B2387	RED.	.....
B2388	BLACK.	.....
PER FOOT			1c

HOOK-UP & MAGNET WIRE - CABLES



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 and insulated length. B & S gauge.

Each spool holds one continuous, uniformly drawn and insulated length. B & S gauge.

1 LB. SPOOLS				1 LB. SPOOLS			
No.	Ft.	Size	NET	No.	Ft.	Size	NET
B3154	39	50.23	14	B3167	78	56.41	
B3156	49	24.15	14	B3168	96	42	
B3157	62	25	16	B3169	124	43	
B3158	75	26	17	B3170	156	44	
B3159	88	27	18	B3171	198	45	
B3159	124	28	19	B3172	248	49	
B3160	156	29	20	B3173	312	52	
B3161	198	30	21	B3174	392	53	
B3162	248	31	22	B3175	490	58	
B3163	298	35	24	B3176	772	67	
B3164	488	38	25	B3177	956	70	
B3165	605	41	26	B3178	1209	73	
B3166	938	46	28	B3179	1876	89	

HIGH GRADE MAGNET WIRE ON SPOOLS

Insulated copper wire of highest quality for all radio and electrical purposes. Wound on spools in continuous lengths. Excellent for winding armatures and field coils, receiver and transmitter coils, rewinding power transformers and chokes. For shops, schools, laboratories, etc. Standard B. & S. Gauge. We can supply magnet wire in all sizes and types of insulation. In larger quantities than listed, we quote the attractive prices which will save you money on quantity purchases of magnet wire.



PLAIN ENAMELED

1/2 LB. SPOOLS			
No.	Size	Ft.	NET
B3520	14	38	\$8.25
B3521	16	63	23
B3522	18	101	26
B3523	20	159	28
B3524	22	255	29
B3525	24	402	30
B3526	26	640	32
B3527	28	1013	35
B3528	30	1602	38
B3529	32	2543	41
B3530	34	4042	45
B3531	36	6410	56

DOUBLE COTTON

1/2 LB. SPOOLS			
No.	Size	Ft.	NET
B3533	14	36	\$8.25
B3534	16	61	27
B3535	18	96	30
B3536	20	150	33
B3537	22	234	36
B3538	24	362	43
B3539	26	558	52
B3540	28	842	61
B3541	30	1321	79
B3542	32	1889	88
B3543	34	2746	1.14
B3544	36	3801	1.40

DOUBLE SILK

1/2 LB. SPOOLS			
No.	Size	Ft.	NET
B3546	18	49	\$8.26
B3547	20	78	29
B3548	22	126	31
B3549	24	196	34
B3550	26	310	39
B3551	28	458	48
B3552	30	776	55
B3553	32	1207	72
B3554	34	1828	1.17
B3555	36	2688	1.41
B3556	38	3875	1.68
B3557	40	5325	2.25

CABLES FOR EVERY PURPOSE

PUSH-BACK HOOK-UP WIRE

CRYSTAL MICRO-PHONE CABLE

Shielded, rubber-jacketed cable. Conductor is of one stranded copper wire, extremely flexible. Available in two types, single or double conductor. Low loss.

B2499, 100 Ft.	\$3.70
FOOT	4c
B2498, 100 Ft.	\$6.40
FOOT	7c

TELEPHONE WIRE

For telephone and multiple speaker installations. High-grade No. 19 solid tinned copper. Has 1/2" rubber insulation with glazed cotton braid overall.

E2494, 2 Conductor, 1000 Ft.	\$10.00
100 Ft.	\$1.50
B2495, 3 Conductor, 1000 Ft.	\$15.40
100 Ft.	\$2.15
B2496, 3 Conductor, 1000 Ft.	\$15.40
100 Ft.	\$2.15

BATTERY CABLES

Well-made. For batteries, speaker, and analyzer connections. Cotton braid overall.

No.	Conductors	NET
B2901	5	24c
B2902	6	36c
B2903	8	48c
B2904	9	49c

HEADPHONE AND SPEAKER CORDS

Copper tinsel inner conductor covered with closely-woven cotton braid. This is firmly anchored. Flexible and long-wearing.

B2932, 4 foot cord, Tips on one end; spades on other. For speakers.	
B2933, 4 foot cord, Tips on both ends.	8c
NET EACH	10 for 75c.
B2934, 5 ft. on one end, Tips in other, 5 foot cord.	19c
B2935, Tips on both ends, 5 foot cord.	19c
NET EACH	10 for \$1.75, 100 for \$19.95

MULTI-CONDUCTOR CABLES

High quality cable for almost every indoor or outdoor requirement. Each conductor is No. 18. Color-coded; flexible.

COTTON BRAID OVERALL

No. 18 stranded conductors, each covered with rubber jacket with brown cotton braid over all. Any length. Per 10' NET

No.	Cond.	Feet	100 Ft.	NET
B3500	2	18c	1.45	
B3501	3	25c	2.20	
B3502	4	32c	3.00	
B3503	5	41c	3.65	
B3504	6	46c	4.25	
B3505	7	52c	4.50	

WOVEN SHIELDING OVERALL

Tightly woven overall shielding of fine tinned copper wire. Each is No. 18 conductor, insulated with rubber jacket. Any length.

No.	Cond.	Per Ft.	100 Ft.	NET
B3507	2	3 1/2c	\$2.75	
B3508	3	4c	3.55	
B3509	4	4 1/2c	4.20	
B3510	5	5 1/2c	4.95	
B3511	6	6 1/2c	5.65	
B3512	7	7 1/2c	6.15	

SHIELD AND RUBBER JACKET OVERALL

Heavy rubber jacket over tinned copper shielding. Ideal for outdoor and heavy duty service.

No.	Cond.	Per Ft.	100 Ft.	NET
B3514	2	3 1/2c	\$2.70	
B3515	3	4c	3.55	
B3516	4	4 1/2c	4.90	
B3517	5	5 1/2c	5.70	
B3518	6	6 1/2c	6.85	
B3519	7	7 1/2c	7.95	

EXTENSION CORDS

Flexible braided-covered cords for use with extension speakers, etc. Have phone tips and connector.

B5555, 20 Ft. Cord.	32c
YOUR PRICE	
B5556, 30 Ft. Cord.	45c
YOUR PRICE	
B5557, 50 Ft. Cord.	63c
YOUR PRICE	
B5558, Extra Connector.	8c

FIVE DIFFERENT COLORS

This wire is double-cotton covered with paraffin-treated damp-proof braid which stays back easily. Available in the distinctive colors. Use a different color for each circuit for ready identification. Buy this high quality hook-up wire in quantities at our attractive low prices.

No. 20 SOLID 25 FOOT ROLLS		No. 20 STRANDED 25 FOOT ROLLS	
No.	Color	No.	Color
B3560	Black	B3580	Black
B3561	Yellow	B3581	Yellow
B3562	Green	B3582	Green
B3563	Blue	B3583	Blue
B3564	Red	B3584	Red
10 FOR 99c	11c	10 FOR \$1.15	12c
100 FOOT ROLLS		100 FOOT ROLLS	
B3565	Black	B3585	Black
B3566	Yellow	B3586	Yellow
B3567	Green	B3587	Green
B3568	Blue	B3588	Blue
B3569	Red	B3589	Red
10 FOR \$3.65	36c	10 FOR \$4.25	44c

1000 FOOT SPOOLS

Solid push-back wire as described above in 1000 ft. continuous rolls in any color listed. Specify color when ordering.

B3570, 1000 Ft.	\$3.35
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No. 14 SOLID 25 FOOT ROLLS

High-voltage insulation. Ideal for transmitters, power packs, etc.

No.	Color	Per Roll
B2870	Black	PER ROLL
B2871	Red	PER ROLL
B2872	Green	PER ROLL
B2873	Blue	PER ROLL
B2874	Yellow	PER ROLL

100 FT. ROLLS. SPECIFY COLOR. NET EACH \$1.07

COPPER SHIELDING

Tinned shielding. Very flexible. For use on amplifiers, speakers, auto radios, etc. Easily soldered.

No.	Diam.	Per Ft.	Per 50 Ft.
B3595	1/4 in.	\$0.95	2 1/2c
B3596	1/2 in.	1.10	3c
B3597	3/4 in.	1.65	4c
B3598	1 in.	2.35	6c

SHIELDED LOOM

Heavily impregnated and weather-proofed. For shielding auto antenna lead-ins, cables, and grouped leads.

No.	Inside Dia.	Per 50 Ft.	Per 100 Ft.
B3423	1/2 in.	\$2.05	5c
B3424	3/4 in.	3.10	7c

COLORS

RUBBER HOOK-UP WIRE

Stranded tinned No. 20 copper wire with flexible colored rubber insulation. Easy to skin. Will not dry out or crack. Available in 5 different and distinctive colors. Use a different color to identify each circuit.

25 FOOT COILS

No.	Color	NET EACH
B3572	Red	NET EACH
B3573	Green	NET EACH
B3574	Blue	NET EACH
B3575	Black	NET EACH
B3576	White	NET EACH

10 FOR \$1.15.

1000 FT. ROLLS

Specify color. NET 1000 Ft. \$4.20

AUTO RADIO ACCESSORIES

LATEST AUTO RADIO AERIALS



CARFLO AUTO AERIAL "FITS ANY CAR TOP"

A new development in auto antennas. Absolutely non-directional design gives increased signal pickup and clarity, greater efficiency, and less noise. Constructed of one piece of seamless drawn copper tubing. Furnished in two types: highly polished chromium finish, or polished copper finish which can be dued to match car color. Receiving area of antenna is equivalent to 50 feet of No. 16 aerial wire.

EASILY TO INSTALL

Quickly and easily installed on any car top. Rubber vacuum cups attach aerial securely. Although it may be readily removed if desired. Streamline shape offers minimum of wind resistance. May be used with any radio for same reason with...
B10470, Polished Chromium \$3.53
B10471, Polished Copper Finish. May be dued. NET. 2.94



"REDHEAD" SENIOR AUTO ANTENNA

A scientifically designed, welded, vibration-proof running-board antenna of remarkable efficiency. Strong signal pickup with minimum of ionization interference. All-metal construction; completely insulated with an overall rubber cover, waterproof and rust-resisting. Easy to install. No springs, wire, etc., in rattle or loosen. Has set screw connection for antenna lead-in. Length 46"; width 9".

EASILY ADJUSTABLE

The "Redhead" Auto Antenna has mounting brackets of malleable iron which are easily bent to conform to any particular type of installation; quickly adjustable over entire length of antenna assembly. No drilling is required as the bolts already in the running-board are used. Distance of antenna below running-board is adjustable from 2" to 12". Once installed, requires no further attention.
 Ship. wt. 7 lbs.
B10473. NET. \$1.47



KNIGHT AUTO RADIO SUPPRESSORS

Sturdy, efficient carbon tube suppressors for use on any automobile engine. Heat- and moisture-proof. Well-built to withstand constant vibration. Resistance element enclosed in polished bakelite case except Fig. "D" which is new type for Ford V8. This unit replaces original distributor brush and acts as distributor suppressor.

B8990, A. Spark Plug Type.
B8991, B. Distributor Type.
B8992, C. Cable Type.
B8994, E. Short Bulk Type.
 SET OF 5.....55c
 SET OF 7.....75c
 SET OF 8.....94c
YOUR PRICE, EACH.....12c
B8995, D. Special 50,000 ohm. Ford V8 Brush Type. For 1933-1935 models.
B8999, D. Special small type, 50,000 ohm. For 1936 and 1937 Fords.
YOUR PRICE, EACH.....12c

WARD AUTO AERIALS FLEXROD AERIAL

Highly efficient. Fits door-lunge of any car. Drawn from manganese steel with polished chromium finish. Flexible—will not break. Easy to install; will increase the signal pickup and improve reception. Complete with 37" lead-in and mounting bracket. Wt., 2 lbs.
B10475. NET. \$2.06

"FISHPOLE" AERIAL

Consists of flexible, telescoping 8 foot steel rod with insulating bracket and lead-in wire. Easily attached to any rear bumper. Complete isolation from motor noise permits better signal pickup with less possibility of interference from ignition system. With 12 foot lead-in. Wt., 2 lbs.
B10476. NET. \$2.06



LONG-RANGE TWINS

A new dual-section undercar antenna with signal pickup equaling that of roof type aerials. Sealed in rubber; absolutely weather-proof. Works efficiently even in rain or snow. Has molded rubber bracket supports. Movable brackets permit mounting under any running board without drilling holes. With 66" shielded lead-in cable. Ship. wt., 7 lbs.
B10381. YOUR PRICE.....\$2.35



"TUR-RETTE" AERIALS

An "Over-the-Top" auto antenna designed for installation on turret top cars having wind shields that can be opened. Quickly and easily installed without drilling. Special mounting cement supplied with aerial insures tight installation. Aerials are polished chromium-plated steel, mounted on molded standoff insulators. Non-directional design permits maximum signal pickup. With 3 foot lead-in. Ship. wt., 3 lbs.
B10380. YOUR PRICE.....\$2.50

AXLE TO AXLE AERIAL

High pick-up auto aerial for installation underneath car from front to rear axles. Fitted with strape for quick installation. Gives uniform electricity and adds plenty of volume to your auto set. Wt., 2 lbs.
B9143. List. \$1.50. NET. 48c

I.C.A. AUTO AERIALS EAGLET TWIN

A modern double type auto antenna providing maximum signal pickup with less noise. Pull triple chrome-plated lead-in wire for fast installation. Easily installed with vacuum cup mountings. Fits all metal top cars.
B10475. Open Windshield Cars. NET. \$2.50
B10476, For Cars with Permanently Closed Windshields. NET. \$2.65

MOTO-WHIP
 A new adjustable auto antenna for all cars. Easily installed without drilling car top. Maximum length, 62". Increases signal pickup. Has snap-type adjustment; full chrome-plated.
B10477. NET. \$1.32

HINGE-WHIP
 An efficient telescopic antenna that is easily attached to the hinge pin of any car door without drilling. Provides increased full-frequency, non-directional pickup. Extends from 27" to 50". Triple chrome-plated throughout. Lead-in enters through car door opening. With lead-in wire and bracket.
B10478. NET. \$1.47
B10479, Auto-Whip Antenna. Similar to "Hinge-Whip" but non-telescopic. 40" high. With lead-in wire. NET. \$1.15

TOBE AUTO-POLE
 Consists of a telescoping rod with insulated mounting bracket. Completely assembled and can be attached easily and instantly to the rear bumper bracket of any car. Isolated from motor noise; has more efficient signal pickup. Extends 3 to 8 feet. Lead-in wire.
B10481. NET. \$1.73

R.C.A. AUTO ANTENNA
 Based on a fundamental principle which assures maximum results with any auto radio. Noise from nearby sources is eliminated by canceling effect created by shape of antenna. A novelty on new all-steel and turret-top cars. Universal mounting brackets. Ship. wt., 4 lbs.
B10483. RCA No. 9605. List. \$2.60. NET. \$1.55

LOW RESISTANCE WIRE-WOUND SUPPRESSORS

Extremely effective in eliminating motor noise. Positively will not affect operation of motor because of low resistance—20 ohms. Molded bakelite heat-resisting cases contain 11½ choke coils wound with enameled wire.
B8580, Plug type. \$5.66. Distributor type. 10 FOR \$2.55. EACH. 27c

AUTO RADIO FILTERS

SINGLE CAPACITORS
 Metal-cased capacitor by-pass condensers for use on generators, ammeters, horns, etc., to eliminate noise.
B2942, ¼ MFD. Round metal container ¼" x 2". Single lead with lug. For horn. EACH. 15c
B2943, ½ MFD. Round metal container ¼" x 2". Single lead with lug. For coil. EACH. 19c
B2944, 1 MFD. Round metal container 1" x 3¼". Single lead with lug. For generator. EACH. 24c
B2945, 1 MFD. 1¼" x 3¼". Heavy duty for use near motor. For generator. EACH. 32c

CONDENSER & CHOKER UNIT
 A 2 ampere choke and dual ½ mfd. condenser in a compact metal case, 2x2x½". Ideal for filtering light cables.
B2940. EACH. 43c
B2939, A 2 amp. choke and ¼ mfd. condenser in a metal case. For horns, fans, etc. NET. 47c

DOME LIGHT FILTER
 A ½ mfd. condenser and 2 amp. choke in round insulated container, 2x½". With 3 flexible leads.
B2941. 31c
B2938, Ammeter & Gas Gauge Filter. A ½ mfd. condenser in insulated case with two flexible insulated leads. NET. 29c

FORD V-8 CONDENSER
 Especially designed to fit the Ford V8 distributor-head. Special bracket assembly matches distributor head bolts. Required in all Ford V-8 cars.
B5921. For 1934-35 V8 Fords. EACH. 26c
B5922, For 1936-37 V8 Fords. NET EACH. 29c

RADIO-BUILDERS SUPPLIES

CRYSTAL-FINISHED CABINETS

WITH HINGED LIDS



Sturdy steel cabinets finished in black crystalized lacquer. Front and back panels, or bottom, easily removed. Front panels may be replaced with bakelite or other material. Ideal for receivers, transmitters, monitors, frequency meters, etc. Supplied knocked-down for easy shipping. Can be easily assembled in a few minutes with only a screwdriver.

NO.	LENGTH	WIDTH	HEIGHT	NET
B9700	10"	5"	6"	\$1.45
B9701	10"	8"	7"	1.80
B9702	10"	10"	8"	2.15
B9703	12"	8"	7"	2.13
B9704	12"	11"	8"	2.43
B9705	12"	12"	8"	2.53
B9706	18"	12"	8"	3.42

TUBE SHIELDS AT LOW PRICES

CLOSE-FITTING TUBE SHIELDS



For ST12 Bulbs

Space-savers. Replace old shields; also for spray-shield type tubes. Body consists of two snug fitting identical half shields with cap and base assuring perfect fit. For large and small dome-shaped tubes such as 1A6, 2A7, 35, 75, 30, 12A5, 57, 88, etc.

B5265. For short tubes with grid caps, as 1A6, 2A7, 36, 75, 88, etc.

B5266. For short tubes without grid caps, as 6Y5, 12A5, 27, 30, 31, etc.

B5267. For long tubes with grid caps, as 6C5, 5D5, 57, 58, etc.

B5268. For long tubes without grid caps.

NET.....**6c**

LOTS OF 10.....**50c**

For S14 and ST14 Bulbs

B5263. For S14 straight side tubes such as 2A4, 27, 32, 35, etc.

B5264. For ST14 dome-shaped tubes such as 2A4, 32, 35, 2A5, 1A6, 26, 45, 71A, etc.

NET.....**6c**

LOTS OF 10.....**50c**



UNIVERSAL METAL CHASSIS

An ideal chassis base for experimenters. Iias speaker cutout, mounting slots and holes for various parts, and 5 socket holes. Measures 9 1/2" x 5 1/2" with 1 1/2" sides. May be used for 4 or 5 tube set and many other applications. Parts may be mounted to fit in any position. Stamped from heavy-gauge steel.

B9718. YOUR PRICE ONLY.....**19c**

B9719. Bracket for Volume Control.....**3c**

B9720. Mounting bracket. Suitable for coil shield.....**5c**

VENTILATED 3 PIECE SHIELD

For ST12 bulbs, such as 35, 57, 2A7, etc. Made of aluminum; well-ventilated, with curved-in neck to hold tube. Shell measures 1 1/2" dia. x 3 1/2" high, which is slotted for grid lead. With base and cap.

NET.....**10c**

lots of 100.....**38.50**

COIL SHIELD CANS

Heavy-gauge non-magnetic metal shield cans with beautiful baked black crackle finish. These fine shields are available in two shapes and a variety of sizes. All are furnished with spade bolts for mounting. Ideal for repair jobs or original construction.

SQUARE CANS

NO.	SIZE	NET
B5283	1 1/2" x 2 1/2"	16c
B5284	1 1/2" x 3 1/2"	19c
B5285	1 1/2" x 4 1/2"	22c
B5286	2 1/2" x 3 1/2"	31c

ROUND CANS

NO.	SIZE	NET
B5287	1 1/2" dia. x 1 1/2"	11c
B5288	1 1/2" dia. x 2 1/2"	16c

METAL TUBE GRID CAP SHEILD

A necessity where metal tubes are used in high-gain circuits. The shield fits firmly over the grid cap, completely shielding the tube; slot is provided to pass grid lead.

B5290. NET.....**5c**

REPAIR CEMENT

For repairing coils and speaker cones. Kit consists of one can of cement, one can of thinner and a handy brush.

B2930. NET.....**34c**

RADIO METAL CHASSIS BASES

For use in constructing radio sets and amplifiers. Two types listed. Ternplate is heavy lead-coated steel. Solders easily. Electralloy is a rust-proof non-magnetic metal; easy to drill; cuts and solders readily. Bases are 2 or 3" high, with open bottoms. Folded on 4 sides, except 4 1/2" x 1 1/2" size, which has open ends. Undrilled. Wts. 3 to 7 lbs.



TERNPLATE

B9708.	4 1/2" x 8 1/2" x 1/2".	YOUR PRICE..... 34c
B9709.	7" x 9" x 2".	40c
B9710.	7" x 11" x 2".	45c
B9711.	7" x 13" x 2".	50c
B9712.	10" x 11" x 2 1/2".	53c
B9713.	10" x 12" x 2 1/2".	54c
B9714.	10" x 17" x 3".	75c
B9715.	10" x 23" x 3".	85c

ELECTRALLOY

B9722.	4 1/2" x 8 1/2" x 1/2".	YOUR PRICE..... 71c
B9723.	7" x 9" x 2".	76c
B9724.	7" x 11" x 2".	93c
B9725.	7" x 13" x 2".	\$1.05
B9726.	10" x 11" x 2 1/2".	\$1.10
B9727.	10" x 12" x 2 1/2".	\$1.12
B9728.	10" x 17" x 3".	\$1.45
B9729.	10" x 23" x 3".	\$1.69

RUBBER PANELS

Special black hard rubber compound panels. Smooth finish. 1/8 inch thick. Will not warp.

NO.	SIZE	EACH
B9768	7 1/2" x 10"	\$0.72
B9769	7 1/2" x 12"	.82
B9770	7 1/2" x 14"	.92
B9771	7 1/2" x 16"	1.22
B9772	7 1/2" x 18"	1.42
B9773	7 1/2" x 24"	1.58
B9774	7 1/2" x 28"	1.70
B9775	7 1/2" x 30"	1.98

BAKELITE PANELS

High quality black bakelite panels. Smooth finish. 1/8 inch thick. Supplied in standard sizes listed, or cut to size.

NO.	SIZE	EACH
B9758	7 1/2" x 10"	\$0.89
B9759	7 1/2" x 12"	1.10
B9760	7 1/2" x 14"	1.30
B9761	7 1/2" x 16"	1.60
B9762	7 1/2" x 18"	1.80
B9763	7 1/2" x 24"	2.10
B9764	7 1/2" x 28"	2.30
B9765	7 1/2" x 30"	2.55
B9766	7 1/2" x 30"	2.57

Per square inch.....**1 1/2c**

Please remit with order for special sizes.

WRINKLE-FINISH VARNISH

An attractive, modern wrinkle-finish for all metal chassis panels, etc. Air drying; applied with brush or spray-gun. Dries in 30 minutes. Black, 5 pt. tin. **B1955.** Brown, **B1956.** Green, **B1957.**



26c

PER PINT EACH.....**\$1.32**

Specify color when ordering.

Black Crystallizing Lacquer

Will cover any metal surface with black crystallizing finish. Applied with brush or spray-gun. Dries in 30 minutes. **B1950.** 2 oz. Can, **21c** YOUR PRICE.....**65c** **B1951.** 1 pt. Can, **65c** YOUR PRICE.....**\$1.18** **B1953.** 1 pt. Can, **YOUR PRICE.....\$1.18**



METAL PANELS

Electralloy

Non-magnetic, stainless steel metal; beautiful dull silver finish. Easy to drill and cut. No. 6 gauge; 1/16" thick.

No.	Size	EACH
B9731	7 1/2" x 10"	\$0.42
B9732	7 1/2" x 12"	.52
B9733	7 1/2" x 14"	.63
B9734	7 1/2" x 16"	.61
B9735	7 1/2" x 18"	.68
B9736	7 1/2" x 24"	.78
B9737	7 1/2" x 28"	.89
B9738	7 1/2" x 30"	1.12
B9739	30x36	5.25

Cut to Size

We can supply electralloy panels cut to any size, at 1c per square inch. Minimum order.....**95c**

Aluminum

Hard-tempered, commercially pure aluminum sheets. Have bright silver finish. Very popular with set-builders and Amateurs. No. 16 gauge about 1/16" in. thick.

No.	Size	EACH
B9741	7 1/2" x 10"	\$0.44
B9742	7 1/2" x 12"	.54
B9743	7 1/2" x 14"	.64
B9744	7 1/2" x 16"	.76
B9745	7 1/2" x 18"	.85
B9746	7 1/2" x 24"	1.06
B9747	7 1/2" x 28"	1.12
B9748	7 1/2" x 30"	1.30
B9749	24x36	5.35

CUT TO SIZE

About 1/16" inch thick. Per Square Foot.....**95c** (Minimum order, 95c)

FINISHED METAL PANELS

Heavy-gauge rolled sheet metal, finished with black crackle. Sizes to match chassis bases listed above.

No.	Size	EACH
B9760	7 1/2" x 10"	36c
B9761	7 1/2" x 12"	44c
B9762	7 1/2" x 14"	51c
B9763	7 1/2" x 16"	56c
B9764	7 1/2" x 18"	63c
B9765	7 1/2" x 24"	53c

CHASSIS SERVICE

A new ALLIED service for set-builders. We will form and punch any chassis to your specifications. Charges are as follows: Drilled small holes up to 1/2" - 20c per dozen; holes over 1/2" to 1 1/2" inclusive - the each; holes larger than 1 1/2" - 50c each. Special design work, such as slightly higher. Transformer cutouts, 25c each; cutting, notching and forming chassis, 35c. Minimum charge is 95c. This does not include the chassis base for metal for it. Blank chassis bases, or sheet Electralloy and Aluminum are listed on separate scale drawing with dimensions and hole sizes clearly marked. Chassis bases are made up on final sales basis only; deposit of 95c must accompany order.



BAKELITE TUBING

High grade smooth polished bakelite tubing. Natural finish. Excellent insulating properties and high dielectric strength. Has 1/16" inch wall. Listing below gives inside diameter.

1 Ft. Lengths			3 In. Lengths			Per Inch		
Dia.	No.	NET	Dia.	No.	NET	Dia.	No.	NET
1/4"	B6472	34c	B6465	12c	86165	3c		
1/2"	B6473	55c	B6466	12c	86166	4c		
3/4"	B6474	84c	B6467	4c	86167	6c		
1"	B6475	84c	B6468	6c	86168	6c		
3/4"	B6476	70c	B6469	10c	86169	7c		
3/4"	B6476	84c	B6470	22c	86170	8c		

SOCKETS • PLUGS • CONNECTORS

SHIELDED CABLE CONNECTORS



Exceptionally rugged construction. Insulated steel grip sleeves. Clip-Tite socket (or plug); provides perfect electrical shielding. Has rubber flange to prevent end to end contact. Long contacts assure perfect connection. Black Japan finish. Diameter 1 1/4"; only 1 1/4" long.

MALE		FEMALE	
No.	Prongs	No.	Prongs
B1630	4	B1635	5
B1631	5	B1636	5
B1632	5	B1637	5
B1633	7S	B1638	7S
B1634	8 Octal	B1639	8 Octal

10 FOR \$1.35 NET EACH... **15c**



LOCKING TYPE METAL SLEEVES

Cadmium-plated steel shells; designed to slip over connectors, listed above and screw together. Ideal for portable address use. Set of 2 pieces.

B1640 **15c**



CHASSIS TYPE

Same design as type listed above, except that the female section has a flange to fit under Clip-Tite socket, when mounted on a chassis. Provides locked connection.

B1783. Set of 2 pieces **15c**



RUBBER PLUG HANDLE

A heavy rubber plug handle designed to fit snugly over the shielded cable connectors, male and female, listed above. Made of tough, flexible rubber.

B4549. Each **9c**



CABLE TYPE CONNECTORS

For connecting extension cable together. Cables cannot pull apart. Non-slip lock screw with threaded rim. Drawn steel shells with durable polished chrome-plated finish. Octal type has guide key.

MALE		FEMALE	
No.	Prongs	No.	Prongs
B4550	4	B4555	4
B4551	5	B4556	5
B4552	6	B4557	6
B4554	8 Octal	B4560	8 Octal

10 FOR \$6.55 NET EACH... **73c**



CHASSIS TYPE

Chassis type female cable connectors. Positive connection. Positive locking provided by cadmium plated bronze contacts. Shielded coil-spring ring locks male and female units securely.

B4562 **35c**

CLIP-TITE SOCKETS



REPLACEMENT TYPE
A new study socket made of shielded bakelite, with long contacts which grip plugs firmly. May be mounted in any position. Special universal adapter plate with each socket makes possible quick replacement of any wafers socket.

No.	Prongs	EACH
B4524	4	7c
B4525	5	7c
B4526	7 Medium	10 LOTS
B4527	7 Small	65c
B4529	Combination	9c
B4529	Medium and 7 Small	9c

PRONG OCTAL SOCKET
Same construction as above, to fit new octal base tubes.

B4630, 10 lots, 85c YOUR PRICE EACH **9c**

CHASSIS TYPE

For chassis hole mounting. It is provided with tempered steel locking ring. Moulded bakelite with cadmium-plated contacts.

No.	Prongs	EACH
B4532	5	6c
B4533	5	60c
B4534	6	7S
B4535	6	7S
B4536	7S	8c
B4537	7 Comb.	72c
B4538	8 Octal	72c

STEATITE TYPE

The ideal socket for short wave receivers and transmitters. New low-loss design of glazed steatite. With special universal mounting plate.

No.	Prongs	EACH
B4641	4	24c
B4642	5	24c
B4643	6	\$2.25
B4644	7S	29c
B4645	7M	29c
B4647	8 Octal	\$2.75

PUNCHES FOR CLIP-TITE SOCKETS

Punches clean-cut holes with locking lug for clip-tite sockets.

B1642, 1 1/2", 7M and 7 Comb. B1641, 1 1/2", Standard. NET **\$2.94**



TWO PIECE CONNECTORS

Connectors of two piece-molded bakelite construction. Sure grip handles; sturdy contacts and pins. For microphone or speaker blues.

MALE		FEMALE	
No.	Prongs	No.	Prongs
B1807	4	B1813	4
B1808	5	B1814	5
B1809	6	B1815	6
B1810	7M	B1816	7M
B1811	7S	B1817	7S
B1812	8 (Octal)	B1818	8 (Octal)

NET **18c** EACH... NET **24c** EACH...

SUB-PANEL SOCKETS



Laminated bakelite construction. Sturdy and reliable. Top entirely insulated. Full floating contacts; self-aligning, and of one piece construction for low resistance connection. Sturdily made for enduring service. Each socket has hole locating ring for quick tube insertion.

STANDARD SIZE			MIDGET SIZE		
1 1/2" Mounting Centers			1 1/2" Mounting Centers		
No.	Prongs	EACH PER 10	No.	Prongs	EACH PER 10
B4020	4	5c 45c	B4026	4	5c 45c
B4021	5		B4027	5	
B4022	6		B4028	6	
B4023	7M		B4029	7M	
B4024	7S		B4030	7S	

NEW OCTAL SOCKET

A new small size socket of wafers construction designed to accommodate all of the new octal base tube types. A single socket will fit all metal, metal-glass and octal base glass tubes having 4, 5, 6, 7 or 8 prongs. 1 1/2" mounting centers.

B4031, 10 FOR 55c. YOUR PRICE, EACH... **6c**



ALDEN 'TUNING FORK' CONTACT SOCKETS

New type moulded bakelite sockets for test equipment use. Silver-plated floating "tuning fork" contacts assure long life, even under severe use. Mount above or below panel, 1 1/2" mounting centers.

No.	Prongs	NET EACH
B1690	4	15c
B1691	5	15c
B1692	6	15c
B1693	7M	\$2.30
B1694	7S	\$2.30

NET **24c** EACH



EAR TYPE SOCKETS

A small bakelite socket with ears for mounting in under panel or chassis. Suitable for test instruments, 1 1/2" mtg. centers.

No.	Prongs	NET EACH
B1785	4	15c
B1786	5	15c
B1787	6	10 FOR \$1.40
B1788	7M	10 FOR \$1.40
B1789	7S	10 FOR \$1.40

COMPOSITE TYPE

Composite panel mount sockets for modernizing test instruments.

No.	Prongs	NET EACH
B1795	4-5-6	29c
B1796	5-7M	29c
B1797	7M-7S	29c
B1798	5-6-7S	29c

10 FOR \$2.75

HEAVY-DUTY RUBBER HANDLE PLUGS

Moulded bakelite plugs and sockets mounted in unbreakable rubber handles. The rubber handles are made of one piece and sockets prevent wire breakage. 2 1/2" handles.

PLUGS		SOCKETS	
No.	Prongs	No.	Prongs
B4038	4	B4040	4
B4039	5	B4041	5
B4040	6	B4042	6
B4041	7S	B4043	7M
B4042	7M	B4044	7S

NET **15c** EACH... NET **23c** EACH...

BAKELITE MALE CONNECTOR PLUG

A sturdy neat two piece moulded bakelite connector plug for speaker connections, etc.

No.	Prongs	EACH
B1800	4	15c
B1801	5	15c
B1802	6	15c
B1803	7M	15c
B1804	7S	15c
B1805	8 (Octal)	15c



EBY BAKELITE SOCKETS

One-piece moulded black bakelite construction. Suitable either for baseboard or sub-panel mounting. Sturdy contact sockets, 1 1/2" mounting centers.

No.	Prongs	EACH
B4000	4	18c
B4001	5	18c
B4002	6	18c
B4003	5 and 6	24c
B4004	7M & 7S	24c
B4005	7M (855)	24c
B4006	8 Octal	24c

Base **26c**



EBY COMPACT SOCKETS

Moulded bakelite sockets for sub-panel mounting. Base of socket is laminated bakelite plate. Mounting centers, 1 1/2".

No.	Prongs	EACH	PER 10
B4007	4	12c	\$1.15
B4008	5	12c	\$1.15
B4009	6	12c	\$1.15
B4010	7S	15c	1.35
B4011	7M	15c	1.35
B4012	8 Octal	18c	1.65



EBY ISOLANTITE SOCKETS

Ideal for 1 1/2" mounting. Large positive contacts. Oval holes for mounting.

No.	Prongs	EACH	PER 10
B4015	4	29c	\$2.85
B4016	5	29c	\$2.85
B4017	6	32c	3.10
B4018	7S	32c	3.10
B4019	7M	35c	3.40
B4014	8 Octal	35c	3.40



BASE MOUNT SOCKETS

A moulded bakelite socket for panel or baseboard mounting. Rugged contacts will withstand severe usage. 1 1/2" diameter, with nickel-plated knurled binding posts. Ideal for experimental use.

No.	Prongs	EACH	PER 10
B4515	4	15c	\$1.95
B4516	5	15c	\$1.95
B4517	6	15c	\$1.95
B4518	7M	15c	\$1.95
B4519	7S	15c	\$1.95
B4520	8 (Octal)	15c	\$1.95

NET **21c** EACH... 44c

FUSES · BATTERY CLIPS · HARDWARE

LITTLEFUSES



Designed for the protection of delicate test instruments. Operates "quicker than a short-circuit." Widely used. 1" long. ¼" dia. May be used on A.C. or D.C. Glass-enclosed.

Stock No.	Rating. Amps. Low	Max. Amps. M.A.	EACH
B6230	1/100 10		12c
B6231	1/32 25		
B6232	1/16 60		
B6233	1/8 100		9c
B6234	1/4 200		
B6235	3/8 300		
B6236	1/2 500		PER DOZ.
B6238	3/4 600		\$1.00
B6239	1 1000		EACH. 6c
B6240	2 2000		PER DOZEN 65c

FOR RADIO AND AMPLIFIER USE

For use in 105-120 volt primary line. Underwriters approved. 1 ½" long. ¼" diameter.

No. Amp.	Volts	EACH
B6242	1/4 250	5c
B6243	3/4 250	
B6244	1 250	
B6245	3 250	DOZ. 50c

No. Amp.	Volts	EACH
B6246	1/8 500	9c
B6247	1/4 500	
B6248	3/4 500	PER DOZ.
B6249	3/4 500	\$1.00

MOUNTINGS

Black molded bakelite mountings for instruments.

Littlefuses. Single hole mount.

B6250. EACH..... 9c
PER DOZ., 98c. EACH..... 9c

B6251. Panel type mounting. EACH..... 12c

B6255. For mounting on binding post back of meter. 1 ½" dia. PER DOZ., \$1.30. EACH..... 12c



EXTRACTOR FUSE POST

B6258. Underwriters' Approved. Black bakelite; for all panels up to ½". No exposed parts; requires tool to renew fuse. For Littlefuses. NET..... 24c

METAL-COVERED MOUNTINGS

These metal-covered 3AG fuse mountings are designed for use on the new metal tube radio sets. Approved by the underwriters. Cadmium-plated shell with bakelite base. Size, 2 ½" x ½". It is a 6-32 mounting. Screws spaced at 2 ¼" mounting centers.

B6257. EACH..... 12c
B6258. PER DOZ..... \$1.30

FUSE CLIPS

Single hole mount for small a u to radio tubular fuses.

B6253. EACH..... 2c
PER DOZ..... 20c

FUSE RETAINER

Cadmium-plated separable metal container for fuses. Fits 1" or 1 ½" fuse. Also suitable for aerial controller.

B6262. EACH..... 8c
PER DOZ..... 85c

MUELLER BATTERY CLIPS



Strong channel construction. No solder required. For screw or lug connections. 5 and 10 amp. 15 amp. cadmium-plated; balance lead-coated steel.

MESH TEETH TYPE

B6500. 1 ½" long. 5 amps. No. 45. 7 lb. spring. NET EACH, 4c. 29c
Box of 10.....

B6501. 2" long. 10 amps. No. 48B. 10 lb. spring. NET EACH, 5c. 32c
Box of 10.....



GRIP TEETH TYPE

B6502. 2 ½" long. 25 amps. No. 21A. 17 lb. spring. NET EACH, 8c. 59c
Box of 10.....

B6503. 3" long. 50 amps. No. 31. 33 lb. spring. NET EACH, 16c. \$1.08
Box of 10.....

B6504. 5 ½" long. 100 amps. No. 11A. 38 lb. spring. NET EACH..... 33c

SOLID COPPER CLIPS

For H.F. work. Non-ferrous. 1 ½" long.

B6480. Type 45-C. NET EACH, 8c. 54c
BOX OF 10.....



ALLIGATOR CLIPS

Small clips with slender elongated jaws. Have screw terminals; with barrel ends to fit banana plugs. Less insulators.

B6477. Clip only. Box of 10. 19c. 100 Lots \$3.88. 6c
EACH.....

Colored rubber insulators for alligator clips. Will not slip off in red and black.

B6481. PER PAIR, 1 Red & 1 Black Insulator. YOUR PRICE PER PAIR..... 8c
Box of 10..... 28c
100 Lots..... \$2.70
(Pkd. ½ RED, and ½ BLACK.)

LEAD-COATED BATTERY CLIPS

Sturdy, non-corrosive lead-covered battery clips. Take small share and have strong springs. Will give long dependable service.

B6505. 15 amp. 4c
10 lots 29c. EACH.....

B6506. 25 amp. 5c
10 lots 42c. EACH.....

B6507. 50 amp. 10c
10 lots 85c. EACH.....



LEADER HYDROMETER

A large, accurate and dependable hydrometer. Readoff float. Bulb of 1 lb. resistant rubber. Shpg. wt., 1 lb.

B3971. YOUR PRICE, 28c

We can supply all types of radio hardware. Write to us, describing your needs, stating size, etc., and we shall be glad to ship what you want promptly at the lowest prices.

HARDWARE



1000 PIECE ASSORTMENT

A bargain assortment that will prove invaluable to any serviceman or experimenter. Contains rivets, grommets, nuts, screws, washers, brackets, soldering lugs, etc.—1,000 pieces of hardware useful around every workbench.

B7008. YOUR PRICE. 95c

RUBBER GROMMETS

For insulating holes in metal chassis plates and other electrical cases. Tough, strong vulcanized rubber. For metal stock about ½ in. thick.

Stock No.	Fits Hole	Inside Diam.	Per Doz.
B7028	1/8"	3/8"	9c
B7029	1/4"	5/8"	19c
B7030	3/8"	7/8"	21c

INSULATED GROMMETS

Latest type bushings. Ideal for use on radio instruments to prevent insulated wires from fraying or breaking.

Stock No.	Fits Hole	Length	Per Doz.
B7025	1/8"	1/2"	53c
B7026	1/4"	3/4"	53c
B7027	3/8"	1"	64c



SOLDERING LUGS

Tin coated for easy soldering.

No.	Style	BOX OF
B7045	Style 1	PER
B7046	Style 2	BOX OF
B7047	Style 3	18c
B7048	Style 4	
B7049	Style 5	

HEXAGONAL NUTS

Standard 3/16" nuts, accurately machined from cadmium-plated steel. Shpg. wt., ½ lb.

B7005. 6-32. 18c
B7006. 8-32. PER 100

BRACKET ASSORTMENT

Consists of 28 popular-sized angles and brackets for radio work. Nickel-plated brass. Shpg. wt., 1 lb.

B7009. YOUR PRICE, 26c

SCREW ASSORTMENTS

For all radio service and set-building needs. Each kit contains 85, 6-32 screws of assorted length.

B7031. No. 1 Kit. 85 round-head screws. 23c
B7032. No. 2 Kit. 85 flat-head screws. EACH KIT.....

FIBRE WASHER ASSORTMENT

Large variety of shouldered and plain fibre washers. Very useful too in.

B7033. PER BOX. 26c

FUSES TYPE 3AG

Tubular fuses. Commercially-made. Size is 1 ½ in. x ¼ in. Protect radio sets, test instruments, etc.

No.	Amp.	No.	Amp.
B6010	1 ½"	B6015	5
B6011	1 ½"	B6016	10
B6012	2	B6017	15
B6013	3	B6018	20
B6014	4	B6019	25

Box of 5..... 14c
PER HUNDRED..... \$2.66

Fractional Sizes

No.	Amp.	Box of 5
B6021.	¼ Amp.	45c
B6022.	½ Amp.	45c
B6023.	¾ Amp.	30c

CADMIUM-PLATED MACHINE SCREWS

Standard thread, good quality. One gross to a box.

6-32 ROUND HEAD

No.	Length	Gross
B7010	1/8"	18c
B7011	1/4"	20c
B7012	3/8"	20c
B7013	1/2"	22c
B7014	5/8"	26c
B7015	3/4"	31c
B7016	7/8"	36c
B7019	1"	35c

6-32 ROUND HEAD

No.	Length	Gross
B7019	3/4"	23c
B7020	1"	25c
B7021	1 1/8"	32c
B7022	1 1/4"	35c

METAL TAPPING SCREWS

Cut their own threads in metal as they are turned in by screw driver. May be used with all sheet metal up to No. 16 gauge.

No.	Gross	Length	No.	Gross
B7035	30c	1/2"	B7041	34c
B7036	32c	5/8"	B7042	36c
B7037	35c	3/4"	B7043	36c
B7038	37c	7/8"	B7044	40c
B7039	38c	1"		

ORNAMENTAL HEAD SCREWS

Rosette head; stalybrunze finish. Size 6-32 (7/16" head dia.).

No.	Length	Doz.
B7000	3/8"	8c
B7001	1"	9c
B7002	1 ½"	10c

LUG SCREWS

For mounting shield cans, etc. Cadmium plated. 6-32 thread.

B7007. PER 100..... 33c
B7010. PER 100..... 5c
NET.....

SWITCH POINTS AND STOPS

Solid brass. Heavily nickel-plated with ¼ in. x 6-32 nut.

Switch points. **B7003.** Switch stop. **B7004.**
PER DOZ. ... 8c PER DOZ. ... 8c

GRILL CLOTH

Finest tapestry material, with artistic design of interwoven black and gold. For use behind speaker grilles. Size 12" x 12". Furnished only in 1, 2, 3, or 4 ft. widths, 60 length.

B7016. NET PER SQUARE FOOT..... 18c

JACKS - PLUGS - CLIPS - CONNECTORS

BINDING POSTS

EBY JUNIOR
Insulated posts with non-removable engraved tops. Dia. $\frac{1}{8}$ ". Screw is #32. $\frac{1}{2}$ " long.

B4050. Ant.
B4051. Gnd.
B4052. Input.
B4053. Plain.
B4053. Output.
B4054. +.

List, 20c. NET EACH..... **12c**
PER DOZ..... **\$1.35**

COMBINATION
Top section will receive any standard banana type plug; screw part will take phone tip or wire. Fixed top.

B6325. RED.
B6326. BLACK.
Doz., 80c. EACH..... **7c**

EBY TWIN
Consists of standard Ant. and Gnd. Eby posts mounted on laminated or moulded bakelite strips, 2 in. long, $\frac{1}{2}$ in. wide. Insulated posts.

B4058. Moulded bakelite strip.
List, 35c. NET..... **21c**
B4059. Laminated bakelite strip.
List, 25c. NET..... **14c**

GRID CAPS COMBINATION

New type reversible cap designed to fit both standard glass tubes and new metal tubes. 1/2 in. leads have standard phone tips.

B6328. Red.
B6329. Black.
NET EACH..... **12c**

INSULATED
Well-made spring clips. Colored composition insulation. Have 7/8 in. wire leads. Will fit all glass tubes. Make sure contact.

STANDARD For 866 TUBE
B6330. RED. B6332. RED.
B6331. BLACK. B6333. BLACK.
PER DOZ. 65c. PER DOZ. \$1.25.
NET EACH..... **6c** EACH, **11c**

STANDARD
Sure contact spring clips. Type A is for standard tubes; Type B is for new metal tubes.

B6334. Type A. **1c**
B6335. Type B. EACH..... **8c**

Triple A. C. Extension
Hands triple electric outlet. Of live rubber. With 18 foot cord. Special plug provides added outlet.

B3422. NET **48c**

Rubber Handle Cap
Unbreakable soft rubber attachment. Plug caps. Firm brass blades. Applied type.

B3976. NET..... **4c**
Per 10..... **35c**

TWIN JACKS

LAMINATED TYPE
FIG. A. Of laminated bakelite construction, with sure-strip contact springs. Easy to mount. Ideal for headphones, phonograph or speaker connectors. 2" x $\frac{1}{2}$ ".

B4061. SPEAKER.
B4062. PHONO.
B4063. PLAIN.
10 FOR 55c. EACH..... **6c**

TRIPLE TIP JACKS
Laminated bakelite. For microphones, speakers, etc.

B4068. Plain.
10 FOR 82c. EACH..... **9c**

MOLDED TWIN JACKS
FIG. B. Of molded bakelite; attractive, durable. 2" x $\frac{1}{2}$ ".

B4064. Speaker.
B4065. Phono.
B4066. Plain. EACH. **15c**

SHORTING TYPE
Particularly designed for use in point-to-point analyzers. Circuit automatically closes when cord tips are removed. Single mounting screw. See photo. FIG. B.

B4067. YOUR PRICE. **18c**

MOUNTING STRIPS
Handy insulated strips to support resistors, junction connections, etc., on metal chassis to prevent grounding and shorting.

NO.	LUGS	EACH	TEN
B6305	2	3c	22c
B6306	3	3c	24c
B6307	4	3c	39c
B6308	5	6c	44c
B6309	6	6c	44c

TERMINAL STRIPS
Attractive bakelite strips with a carefully fastened screw terminals. Make good connections quickly. Special lugs prevent wire from slipping out when screw is tightened. Mounting holes at ends of strip for easy fastening.

No.	Term.	Each	TEN
B6311	2	9c	\$0.79
B6312	3	12c	1.05
B6313	4	15c	1.32
B6314	5	19c	1.65
B6315	6	23c	1.95

FAHENSTOCK CONNECTORS
Makes connections by holding wire firmly in spring grip.

B6320. Double, 1" long. NET PER DOZ..... **11c**
B6321. Single, $\frac{3}{4}$ " long. NET PER DOZ..... **10c**
B6322. Double, $\frac{1}{2}$ " long. NET PER DOZ..... **26c**
B6323. Single, $\frac{1}{2}$ " long. NET PER DOZ..... **25c**

EAGLE INDICATING FUSES
New type fuse which shows "OK" in window when in good condition; "OK" vanishes when fuse blows.

B3995.	10 Amp.	5 FOR
B3997.	20 Amp.	
B3998.	25 Amp.	
B3999.	30 Amp.	20c

TEST CLIPS

ALLIGATOR TYPE
Long, thin-nosed clips, easy to fit into tight places. Handy for all test instruments. Back of clip fits all banana plugs. Strong spring clip.

B6317. FIG. A. 2" long. Per Doz., 38c.
NET EACH..... **4c**

B6318. FIG. A. 2 3/4" long. Per Doz., 54c.
100 Lots, \$4.25.
NET EACH..... **5c**

INSULATED TYPE
FIG. B. 2 1/2" long.

B6337. RED. B6338. BLACK.
Per Doz., 80c. EACH... **7c**

FIG. B. 3 1/2" long.

B6339. RED. B6340. BLACK.
Per Doz., \$1.08. EACH... **10c**

PLUGS & JACKS

BANANA TYPE
B6342. FIG. A. New type plug, with flared spring-brass plug-in prong. Ideal for use with any test equipment. 1 1/2" long. Per Doz., 41c.
100 Lots, \$3.26. EACH... **4c**

B6343. FIG. B. Nickel-plated brass jack to fit above plug. Complete with lug and nut. $\frac{1}{4}$ " long. Per Doz., 41c.
100 Lots, \$3.25. EACH... **4c**

INSULATED TYPE
PLUGS JACKS
FIG. C. FIG. D.
B6345. RED. B6347. BLACK.
Per 100 Ass'd., \$4.90.
Per 10 Ass'd., 55c.
NET EACH..... **6c**

SPLIT TYPE BANANA PLUGS
FIG. A. New type plug with split prong, giving much tighter contact between plug and jack. Will stand up under much heavier service than any other plug.

B6350. Doz. **38c**.
100 Lots, \$2.95. **4c**
NET EACH..... **4c**

INSULATED TYPE
B6351. RED. FIG. B.
B6352. BLACK. FIG. B.
Doz., 85c. EACH..... **8c**

BABY BANANA PLUGS AND JACKS
A new small banana plug and jack set, especially for coil mountings. Made of hard brass, nickel-plated.

B6353. PLUG. Per Doz. 40c.
B6354. JACK. Per Doz. 40c.
Per 100, \$3.15.
NET EACH..... **4c**

INSULATED TYPE
PLUGS JACKS
B6357. RED. B6359. BLACK.
B6358. BLACK. B6360.
Per Doz., 59c.
Per 100, \$4.55.
NET EACH..... **6c**

TIP JACKS



B6362. FIG. A. Nickel-plated tip jacks requiring a minimum of panel mounting space. If on 2 e springs clip phone or speaker cord tips firmly for positive connection. Requires only $\frac{1}{4}$ " mounting hole. Will fit panels up to $\frac{3}{8}$ " thick. WL, 2 oz.
Per Doz., 32c. EACH... **3c**

B6363. FIG. B. Heavy spring contact with positive action. Short, compact type for limited space. Requires $\frac{1}{4}$ " mounting hole. Will fit panels up to $\frac{1}{4}$ " thick. Full nickel-plated.
Per Doz., 32c. EACH... **3c**

INSULATED TYPE
New type screw contacts for smooth positive action. Insulated head and shoulder washer. Ideal for use on metal chassis or panels for headphone or speaker output, or for test equipment. FIG. C.

B6364. RED. EACH
B6365. BLACK. EACH
Per Doz. 59c. **6c**
100 Lots, \$4.55. **6c**

Banana Plug or Tip Jack
FIG. D. A new insulated jack arranged to take either standard phone plug or the new organ banana type plugs. Insulated head and shoulder washer, $\frac{1}{4}$ " mtg.

B6367. RED. EACH
B6368. BLACK. EACH
Per Doz., 85c. **8c**
100 Lots, \$6.80. **8c**

Yaxley Colored Tip Jacks
2 in a package
Bakelite caps, one red, one black, insulated.
Type. Fits $\frac{1}{4}$ " hole. Spring contact with solder lug connections. Takes standard cord tip.

B4069. Per set of 2. **15c**
List, 25c. NET..... **15c**

IMP PLUGS
B6370. FIG. A. A midsize plug with screw-on solderless connection. Fits all standard tip jacks.

Per Doz., 35c.
100 Lots, \$2.85. **4c**
NET EACH..... **4c**

INSULATED TYPE
B6371. RED. EACH
B6372. BLACK. EACH
Per Doz., 59c. **6c**
100 Lots, \$4.55. **6c**

CORD TIPS
FIG. A. Practical new design. Hole in side allows a quick and easy connection to be made; just insert wire and apply solder to hole.

B6373. Per 100, **72c**. **8c**
B6374. Per 10..... **8c**

FIG. B. Standard size (tip 1 1/4" long). Solderless screw-on connection. Of nickel-finished brass.

Per 100, \$2.45. **3c**
B6375. EACH..... **3c**

FIG. C. Standard nickel-plated brass cord tips; will fit any regular tip jack.

B6376. Per 100, **50c**. **6c**
B6377. Per 10..... **6c**

BLOW TORCHES Pliers SCREW DRIVERS

LENK BLOW TORCHES

HI-HEAT BLOTORCH

This heavy-duty blow torch assures perfect results. Features flame control, shut-off valve, and non-clogging burner. Fool-proof in design and construction; a self-cleaning type. Generates quick jets from asbestos-filled drip-cup. Produces a 2000° F. flame. The tank is of heavy gauge seamless drawn brass, with funnel shaped bottom for easy filling. Height 7 1/2 inches; diameter at base 3 inches. Two models are available, either for alcohol or gasoline fuel.



B6224. Type 104. Uses gasoline. **\$1.18**
List. \$2.00. YOUR PRICE.....
B6223. Type 105. Uses alcohol. **\$1.32**
List. \$2.25. YOUR PRICE.....

MODEL 145

A sturdily built gasoline torch for all heavy soldering jobs. Special burner gives hot blue flame; new needle-valve design prevents enlargement of orifice. Pump is completely enclosed and leak-proof. Tank holds a quart of fuel. Has heat-resisting Bakelite valve wheel. Sngs. wt. 4 1/2 lbs.

B6229. NET. **\$3.80**



MODEL 24 BLOTORCH

Entirely automatic in operation. Uses alcohol for fuel. Has copper heat conductor for quick generation of gas. Made of nickel-plated brass. Solid bakelite base. Ideal for shop use. Handy size. 5 1/2 x 2 1/2 x 1 inches.

B6221. YOUR PRICE **69c**



IMP GASOLINE HAND TORCH

Entirely automatic gasoline hand torch. Flame temperature is over 2000° F. Has priming cup for quick action. No pumping or blowing necessary. Ideal for use where a fusible or brazing heat is required.

B6226. YOUR PRICE **69c**



RCA CABINET REFINISHING KIT



For refinishing scratched, marred or dented furniture. Leatherette case 9 1/2 x 4 1/2 x 3/4 in. 1 can of 45% alcohol; 1 can cleaning oil; 1 can of Valvoline for rubbing; assorted stick shellac; 2-pkg. aziline stain powders; 1-touch-up brush; 1-spatula; 1-rubbing block; instructions. Sngs. wt. 5 lbs.

B7618. NET **\$2.90**

G-1 MICROMETER

Just the thing for the home workshop. Precision-built and guaranteed accurate within 1/1000 of an inch. Anvil and spindle of hardened steel; accurately calibrated. Zero setting in anvil. Finished in hard, polished chrome. Standard 1" size.

B7736. NET..... **98c**

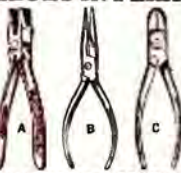


POCKET TOOL CASE

A high grade, two partition case that you can carry in your hip pocket. Will hold a great number of small tools. Made of genuine leather, double sewed, with snap-on flap. Saves wear and tear on your pockets.

B1643. YOUR PRICE **59c**

VALUES IN PLIERS



KRAEUTER PLIERS

Known everywhere; used everywhere. Perfectly made of quality materials. Scientifically heat-treated and hardened. Popular types are listed below. Equipped with famous "Don't-Slip" handles. Will give life-time service. Cutting surfaces are designed to clip a great number of materials without nicking. American-made.

B7806. Type B. 5 1/2 inch Needle-Nose Side Cutter. **\$1.02**
YOUR PRICE

B7807. Type A. 6 1/2 inch Electrician's Type. **96c**
YOUR PRICE

B7808. Type C. 4 1/2 inch Diagonal Cutters. **\$1.00**
YOUR PRICE

B7805. Type C. 5 1/2 inch Diagonal Cutters. **\$1.06**
YOUR PRICE

RADIO PLIERS

Well-made handy pliers for radio and electrical work. Made of fully-polished forged tool steel. Diagonal cutting type (5 1/2" long) has hand-curved and tempered cutters with knurled gun-metal finish handles. Thin nose type (6 1/2" long) are nickel plated. Sturdy built to give lasting service. Excellent tool values.

B7800. Diagonal Cutting Pliers. **\$2.00**
B7801. Thin Nose Type. **\$2.00**
YOUR PRICE EACH **32c**



SPECIAL LONG NOSE SIDE-CUTTING PLIERS

High quality, inexpensive pliers, carefully made of hardened steel. Long nose for reaching into hard-to-get-at places. Knives are well-fitted, and are ground to make clean easy cut. Overall length, 5 inches. Particularly useful in radio construction and repair work. Every serviceman, experimenter, and amateur, can use these pliers to good advantage.

B7802. YOUR PRICE **38c**

END WRENCH SET

A handy little wrench set with many uses. Wrenches stamped from high grade steel, properly hardened for long service. Cadmium-plated; cannot rust. Wrenches are 1/2", 3/4", 5/8", and 3/4" with alligator jaws. American-made.

B2078. Complete set of 3 wrenches. NET..... **10c**



FRICTION TAPE

Made of good quality fabric impregnated with adhesive rubber compound. With high insulation qualities. Made especially for radio and electrical work. Easy to apply; will not dry out.

B7705. 2 oz. roll. NET..... **6c**
B7706. 4 oz. roll. NET..... **9c**
B7707. 8 oz. roll. NET..... **17c**



SCOTCH ELECTRIC TAPE

A tough, flexible, electric tape with extremely high insulation factor. Neutral paper backing with touch-sensitive adhesive coating. Will stick to any surface. 1/2" wide. 10 Yard Roll.

YOUR PRICE **29c**

SCREWDRIVERS



American Made
Highest Quality

GRIP POINT UTILITY SCREWDRIVERS

Especially designed for starting or removing screws in light, congested spaces. Revolving tongue engages screw slot and holds screw firmly. Instantly released or locked by a slight movement of the thumb. May also be used as conventional screwdriver. Length, 9 1/4" overall, with sturdy easy-grip wooden handle.

B7213. For Screw Sizes **66c**

B7714. 8-20 } EACH.

PER SET OF 2 **\$1.22**



NON-SKID SCREWDRIVER

Shock-proof, with ribbed points. Handy fountain pen style with clip. American-made.

B7712. 3-inch blade. **14c**

B7711. 2-inch blade. **12c**

NET.....

B7710. 1 1/2-inch blade. **10c**

NET.....



FIRM-GRIP SCREWDRIVERS

Forged chrome-vanadium alloy steel blades, accurately ground to fit screw slot; tough hammer-proof, Amberlite handles. American-made.

B7715. 3 INCH BLADE. **34c**

B7716. 6 INCH BLADE. **43c**

B7717. 8 INCH BLADE. **52c**

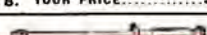
YOUR PRICE



INSULATED BLADE SCREWDRIVER

A 5 inch screwdriver with attractive mottled red and black composition handle, designed to give a comfortable, sure grip. High quality steel blade is insulated almost its entire length; withstands 10,000 volts. American-made.

B7718. YOUR PRICE..... **16c**



MUELLER SNAPPER

May be used to start nuts and screws in out-of-the-way places; serves as test clip in inaccessible spots, or may be used as a joint contour. Consists of universal clip mounted in a long insulated tube. Push-button on the top opens and closes clip. American-made.

B6483. RED. **38c**

B6484. BLACK. EACH **38c**



HANDY LOW COST 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 1/4", 3 1/4", 2 3/4". American-made.

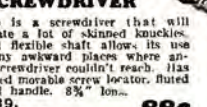
B7719. NET PER SET..... **38c**



FLEXIBLE SHAFT SCREWDRIVER

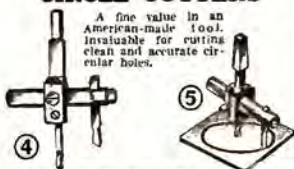
Here is a screwdriver that will eliminate a lot of skinned knuckles. Special flexible shaft allows its use in many awkward places where another screwdriver couldn't reach. Has insulated morable screw locator, fluted molded handle. 8 1/4" long.

B7739. YOUR PRICE **88c**



Quality TOOLS for Every Purpose

CIRCLE CUTTERS



A fine value in an American-made tool. Invaluable for cutting clean and accurate circular holes.

Designed to cut large holes accurately and quickly. May be used in slow-speed drill press or hand-brace. Ideal for radio set builders, servicemen, carpenters. Type No. 5 is designed for heavy duty work. Type No. 4 is a standard professional cutter, heavy bracket construction; Junior type is for light work on softer materials. Will cut holes in wood, bakelite, hard rubber, tin, sheet metal, etc.

B773 I. No. 4. Cuts holes 1 to 4" in diam. NET..... **\$1.29**

B7730. Junior. Cuts holes 1/2 to 2 1/2" in diam. NET..... **78c**

B7732. No. 5. Square shank. Cuts holes 1 to 2 1/2" diam. NET..... **\$1.88**

B7733. No. 5. Round shank. NET..... **\$1.88**

B7735. Extra cutter blades for No. 4 and No. 5. Hardened tool steel. **24c**



ICA ALL-PURPOSE CIRCLE CUTTER

An improved circle cutter that cuts holes from 3/4" to 8". High quality hardened steel. Hexagonal shaft fits in drill chuck. Easy adjustment of cutter. Cuts metal, bakelite, wood, etc.

B1615. YOUR PRICE..... \$2.35

GOODELL-PRATT HAND DRILL

Highly servicable with solid steel frame and single speed, cut gear. Equipped with three-laned chuck holding any size drill up to 3/4". Large gear, red enameled. Mahogany finished hardwood handle. Solidly built to give good service. A rare value in a good American-made tool. Length, 10 1/2 in. Ship wt., 3 lbs.

B772 I. YOUR PRICE..... 81c

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 1/16 to 3/16 sizes in 1/32 inch 1/2 size graduations. American-made.

B7720. NET..... 95c

PISTOL GRIP HACKSAW

A real bargain in a fine American-made tool. The handle is made of wood, shaped for easy gripping; very sturdy, and highly polished. The heavy, rigid frame is fully nickel-plated and is adjustable to accommodate all blades from 8 in. to 12 in. size. With 8 in. blade.

B7722. YOUR PRICE..... 42c

QUALITY HACKSAW BLADES

Flexible blades of special alloy steel, heat-treated to produce toughness. Teeth are case-hardened, set and filed. 24 teeth per inch.

B7724. 8" BLADE. YOUR COST, PER DOZEN..... 45c

B7725. 10" BLADE. YOUR COST, PER DOZEN..... 55c

B7726. 12" BLADE. YOUR COST, PER DOZEN..... 68c

QUALITY PUNCHES



SOCKET AND CONDENSER PUNCHES

Punches clean round holes in sheet metal (chassis bases, panels, etc.). Easy to use, saves time, no pre-drilling necessary. Made of highest grade rustproof hardened steel to give lasting service. New pin-point center piercing pin cuts through without drilling; contour edges cut clean, accurate holes. All punches are die-reamed and oil-tempered. These punches sets are all American-made.

B1649. For 1/4" Holes. YOUR PRICE..... \$1.06

B1646. For 1 1/2" Holes. \$1.69

B1647. For 1 3/4" Holes.

B1648. For 3/4" Holes.

List \$3.00.

YOUR PRICE EACH..... \$7.50

SET OF 5 PUNCHES.....

CLIP-TITE SOCKET PUNCHES

Especially designed to cut out holes for the "Clip-Tite" tube sockets. Provides locking key for socket.

B1641. 1 1/2" Standard. \$2.94

B1642. 1 3/4" 7M and 7 Comb.

YOUR PRICE EACH.....

ICA RIVET & EYELET PUNCH SET

A universal tool for resetting any size eyelet or rivet. Heavy cast-iron anvil has hexagon sides; may be clamped in vise. Settling tools of hardened steel produce clean, factory-like job.

B1616. NET..... \$1.32



ACRO CHASSIS CRADLE

Holds any radio set chassis in any position rigidly and safely. Prevents distortion of chassis, coils, etc. Allows use of both hands for repairs. Quickly and easily adjusted by means of movable vice-like clamps. Solid, sturdy construction. Will stand up your repair jobs.

B1617. YOUR PRICE..... \$4.75

MORRIS COIL WINDER

A universal coil-winding machine. Will wind Honeycomb or S. Spiker Web, Solenoid coils, etc. In different widths and set diameters and will handle wire of different gauges. Makes precision coils that equal factory accuracy. Has recorder with adjustable pointer for counting number of turns. An ideal machine for the experimenter or small factory. Ship wt., 4 lbs.

B9302. List, \$15.00. NET..... \$4.35

cells that equal factory accuracy. Has recorder with adjustable pointer for counting number of turns. An ideal machine for the experimenter or small factory. Ship wt., 4 lbs.

B9302. List, \$15.00. NET..... \$4.35



NEW SERVICE KIT

Includes the following: 2 long prod handles, 2 short prod handles, 2 phone tips, 2 phone tip jacks, 2 spade lugs, 2 alligator clips, 6 ft. red and black flexible wire, 2 insulated screwdrivers (1 1/2" and 2 1/2"); 6 socket wrenches (2-6", 2-9", 2-10", 2-11", 2-12", 2-13"); hardware kit (tips, jacks, grid caps); leather kit of 3 open end wrenches; 3 in 1 neutralizing tool and compensating screwdriver.

B2107. List, \$5.50. NET..... \$2.95

SOCKET WRENCHES



SPIN-TYPE WRENCHES

A complete selection of high grade hexagonal socket wrenches for every radio requirement. Sockets are of hardened tool steel designed to grip surely. Shafts are of heavy cadmium-plated steel with ribbed easy-to-strip wooden handles. Offset type is for reaching into tight places. Sizes listed will handle all standard nut sizes used in radio work. American-made.

Nut Size	6" Straight	5" Straight	6" Offset
3/16"	B2055	B2062	B2069
1/4"	B2056	B2063	B2070
5/16"	B2057	B2064	B2071
3/8"	B2058	B2065	B2072
7/16"	B2059	B2066	B2073
1/2"	B2060	B2067	B2074
NET			
EACH.....	10c	12c	
Set of 6.....	62c	62c	

HOLLOW HANDLE WRENCH SET



American-made

Ideal for shop and tool bag. Hollow handles hold all sockets. Sizes 3/8", 1/2", 5/8", 3/4", 7/8" and screwdriver socket, 7/8" long. Handle heavily knurled for good gripping surface. White nickel finish.

B7737. YOUR PRICE..... 54c

LOCK-SOCKET WRENCH SET AND SCREWDRIVER

A set of 8 sockets in assorted sizes to handle hex, square and round nuts. Consists of 1-1/4" hex socket mounted on 3 1/2" straight extension; 5 hex sockets in 1/4", 5/16", 3/8", 1/2", 5/8" sizes, 2 square sockets in 1/4" and 5/16" sizes, 1 round nut socket, 1 1/4" shaped extension 4" long and 1 screwdriver wrench handle. Patented locking device holds tools firmly to handle.

B5516. YOUR PRICE..... 85c

SOCKET WRENCH SET



A set of five detachable sockets of fine wrought steel. Complete with wrench handle. In popular sizes 3/8", 1/2", 5/8" and 1 1/2".

B7690. YOUR PRICE..... 37c

FLEXIBLE DRIVE SOCKET SET

Flexible laminated steel shaft will bend around corners. Permits handling of nuts which are inaccessible to ordinary tools. Has comfortable fluted wood handle, 10" long; equipped with six hexagon sockets sizes 3/8", 1/2", 5/8", 3/4" and 1 1/2". Nickel-plated sockets easily interchangeable.

B7738. NET..... \$1.76

RADIO TOOL CHEST



This handy chest contains 10 handy, sturdy tools for the serviceman or restorer. Consists of: 3" and 5" screwdrivers, scriber, tracer, counter-punch, pliers, center-punch, socket wrench sets for hexagon and knurled nuts, and 3 hexagon nut wrenches from 3/8" to 1 1/2". American-made.

B7691. NET..... \$2.25

NEUTRALIZING TOOLS TEST LEADS

LATEST SERVICE TEST LEADS AND TEST KITS



PENCIL PROD TEST KIT

A serviceable kit that meets every testing need. Handles are 6" long with 5 foot leads attached to banana type plugs. Each kit contains 2 alligator clips, 2 needle point tips, and 2 Spade lug tips, all of which fit tightly on banana tips of test leads. Interchangeable tips make this kit ideal for all types of testing.

Wt. 1 lb.
B2196
 List. \$1.50. NET. **72c**



AMERICAN TEST KIT

A complete test kit with innumerable uses. Consists of: 2-1/2", 2-3/4" and 2-1/2" test prod handles with banana type plugs, each pair red and black; 2 needle-point, 2 alligator clip and 2 spade lug solderless tips—designed to fit banana plugs of handles. Also 1 red, 1 black banana jack.

B2121
 YOUR PRICE **\$1.15**



ALIGNMENT TOOL KIT

Here is a tool kit that every Serviceman should have. Provides the correct tool for neutralizing or aligning any type of receiver. Contains: 1 pair

test prods: 1 flexible tuning wand; 1 alligator wrench with screwdriver tip; 1-6" insulated screwdriver; 1-6" balancing tool; 1-3-in-1 neutralizing tool; 1 trimmer for new metal tube sets.

B2122
 YOUR PRICE **\$2.75**



NEUTRALIZING AND ALIGNING TOOL KIT

Has a tool for every type of receiver. 12 separate parts cover multiple functions. These units telescope into each other forming four separate tools for easy carrying in handy leatherette wad pocket case. Includes: (1) alligator wrench; (2) insulated screwdriver with metal nib; 3/4" and 3/8" nut wrench; (2) 3/4" square nut wrench; 3/4" hex. side wrench; 2 1/2" screwdriver with metal nib; (3) 3/4" hex. slotted wrench; metal screwdriver; 3/4" hex. nut wrench; 2" screwdriver with metal nib.

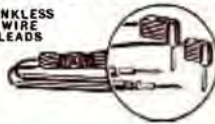
(4) 6" insulated screwdriver. Complete with carrying case. Shipping weight, 1 lb.
B5532. YOUR PRICE **\$2.30**

DE LUXE KIT

Contains all the high quality tools in the regular kit, but also includes 2 new items, the magic tuning alignment tool and the newly developed flexible screwdriver. These tools are indispensable for aligning the new all-wave sets with their small coil and trimmer assemblies. Complete with leatherette pocket case with belt loops.

B5529. YOUR PRICE **\$2.94**

KINKLESS WIRE LEADS



PENCIL TYPE TEST PRODS

High-quality test leads for use with all test equipment. 5" handles are made of red and black insulating material, with fine flexible soft rubber kinkless wire. The sharp-pointed penetrating tip is threaded six times into the handle, protecting one inch. All connections are properly soldered, providing the low resistance connections that are vital in precision test work. Molded finger grips with phone tips are provided with set screws for easy removal of wire. The total length of the leads and handles is 65 inches.
B5530. YOUR PRICE **73c**

NEEDLE-POINT TEST LEADS

Equipped with needle points for making good contact through insulation or pitch. 4" handles; 3/4" thick, 45" leads.
B5496. Phone Tips. **29c**
B5497. Spade Tips. **36c**
 PER PAIR
B5498. Alligator Terminals. PER PAIR.....

SOLDERLESS TEST PRODS

Needle-point test prod with insulated handle. Completely solderless. Wire clamps tightly in prod. 5 3/4" long.
B5471. Red. **15c**
B5472. Black. Each



HEAVY DUTY LAB MODEL WITH KINKLESS WIRE LEADS

All-purpose leads for practically any test need. Flexible, rubber-covered kinkless wire fitted into heavy 3/4" inch handles, one red and one black. Handles are 5 1/2 inches long with pointed tips. Leads are 40 inches long.
B5490. Phone Tips. PER PAIR **42c**
B5491. Spade Tips. PER PAIR **53c**
B5492. Alligator Terminals. PER PAIR



SERVICE TEST LEADS

Popular test prods with solderless phone tips. 4" handles; 3/4" thick, 45" wires. Prod wire is securely tightened by knurled nut.

B5493. Phone Tips. PER PAIR **25c**
B5494. Spade Tips. PER PAIR **35c**
B5495. Alligator Terminals. PER PAIR

ALIGNING AND NEUTRALIZING TOOLS

METAL NIB NEUTRALIZING TOOL

Two valuable tools. One is a 6"x3/4" tube, on each end of which are heavy brass nickel plated socket wrenches for 3/8" and 1/2" nuts. The other tool fits into the tube. Has a strong screwdriver blade at one end with the other end of special magnetic steel.
B5528. YOUR PRICE **69c**

FLEXIBLE SHAFT TUNING WAND

Excellent for checking alignment of radio sets without disturbing the adjustment of the trimmers. Shaft is of flexible cutgut; brass cylinder at one end, fine iron core at other.
B5534. YOUR PRICE **59c**

NEUTRALIZING WRENCH

Hex broaching runs entire length. End may be cut off when worn. Fibre rod. Fits 3/4" nut.
B5473. 5/8" INCH. **14c**
B5474. 3/4" INCH. **16c**

5-IN-1 ALIGNMENT TOOL

A handy alignment tool kit that will serve innumerable uses. Consists of 3/4" and 5/8" nut wrenches, miniature blade screwdriver, and a full-size screwdriver with pocket clips. Wt. 4 oz.
B5527. YOUR PRICE **69c**

AUTO RADIO TUNING WRENCH SET

Permits aligning or tuning set in car or on service bench without removing control head. 10 high quality steel tools match shaft connections on most popular auto sets. In neat leatherette roll.
B2109. YOUR PRICE **\$4.41**

4-IN-1 SERVICE ALIGNMENT TOOL

Combines in one fountain pen size tool 4 Servicemen's necessities—3/4" and 5/8" nut wrenches, neutralizing screwdriver and key slot strip. Insulated handle with pocket clip.
B5523. Shw. wt. 3 oz. YOUR PRICE **29c**
B5524. Crossly attachment. **B5525**. Magnetic attachment. EACH **10c**

BALANCING ATTACHMENT

Neutralize any set without removing chassis. May be screwed into 4 in 1 above. Only 2 1/2" long. Ideal for working in close quarters. Fits 1/2" hex. socket; steel neutralizing screwdriver.
B5526. YOUR PRICE **23c**

PHILCO, RCA, SET TRIMMERS

A specially designed tool, used for precision alignment of the small-space coil and trimmer assemblies used on the new all-wave sets. Screwdriver is turned down to a diameter of 3/32" for a depth of 1 1/2" so that it will easily pass through a 1/2" hole. Other end is 5/8" hex. nut wrench with external metal reinforcing band.
B5535. 6" Trimmer. **44c**
B5536. 10" Trimmer. **59c**
 YOUR PRICE

INSULATED NEUTRALIZING SCREW DRIVER

This handy tool has a grip-rite handle with pocket clip. Completely insulated. Ideal for neutralizing and alignment work. Useful tool for servicemen. Comfortable insulated construction. 5 1/2 inches long. Narrow 5/8" inch diameter enables this screw driver to be used in tight places.
B5503. YOUR PRICE **18c**

SOLDERING IRONS and ACCESSORIES

COMPLETE WITH 2 SCREW-ON TIPS



KNIGHT SOLDERING IRON 55 WATT MODEL

A well-designed high quality KNIGHT 55 watt iron suitable for every service use. Has a dependable wire-wound element in a ceramic tube. Heats up quickly; stays hot. Two types of tips are supplied with iron to handle all work from fine soldering to tinning of brass bases. Tips are $\frac{3}{16}$ " and $\frac{1}{8}$ " in diameter, $1\frac{1}{2}$ " long. The well-shaped handle remains cool even when iron is continuously used. Equipped with 5 foot heater cord and rubber plug. This KNIGHT iron is an outstanding value at our price.

B6005. YOUR SPECIAL PRICE..... 65c

100 WATT KNIGHT SOLDERING IRON

A high quality all-purpose iron. Has $\frac{3}{16}$ " high diameter removable (screw-on) copper tip. With black insulated handle and 5 foot heater cord. You get your money's worth in this fine iron.

B6006. YOUR SPECIAL PRICE..... 97c

KESTER SOLDERS

Contaminated at the highest grade tin and lead available. Flux filling, assures perfect reworked joints free from corrosion. Widely used by servicemen. The finest solder that can be bought. Save money by buying the one pound supply.



ACID CORE

Of purest virgin metal with properly prepared acid flux

B6175. 1 Lb. Spool..... 64c

B6176. Per Tin..... 15c

ROSIN CORE

Kester Solder with pure plastic rosin core flux.

B6177. 1 Lb. Spool..... 64c

B6178. Per Tin..... 15c

ALUMINUM

A flux-filled Solder that will ably-solder aluminum.

B6179. 1 Pound Spool..... \$1.99

B6180. Per Tin..... 17c

KESTER SOLDERING PASTE

A new limited soldering paste. Does a clean, non-corrosive job of soldering. Excellent for radio work.

B6181. 10 FOR \$1.05. PER TIN..... 12c



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 high-ohmic nichrome wire wound on genuine amber mica; reaches soldering heat quickly. Removable plunger type tip with set screw adjustment. With 6 foot approved cord and unbreakable plug.

B2203. 80 WATT. Length 13"; tip diameter $\frac{3}{16}$ ". Wt., 1 $\frac{1}{2}$ lbs. List. \$3.15. YOUR PRICE..... \$1.85

B2204. 100 WATT. Length 12 $\frac{1}{2}$ "; tip diameter $\frac{3}{16}$ ". Wt., 1 $\frac{1}{2}$ lbs. List. \$3.75. YOUR PRICE..... \$2.20

B2205. 200 WATT. Length 14"; tip diameter $\frac{3}{16}$ ". Wt., 2 lbs. List. \$7.50. YOUR PRICE..... \$3.95

AMERICAN BEAUTY SOLDERING IRONS

B2000. Type 2125. Adapted for production work on radio, ignition, television, etc. 100 Watt; 16 oz.; length 12 $\frac{1}{2}$ "; tip dia. $\frac{3}{16}$ ". 6 foot cord. List. \$7.00. YOUR PRICE..... \$5.85

B2001. Type 2-76. Light and compact. Heats quickly. Screw type removable tip. 50 Watt; 6 oz.; length 11 $\frac{1}{2}$ "; chisel point tip $\frac{3}{16}$ ". 4 foot cord. List. \$4.50. YOUR PRICE..... \$3.45

TIPS FOR AMERICAN BEAUTY IRONS

B2002. Extra $\frac{3}{16}$ " tip for Type 2128 iron. NET..... 39c

B2003. Extra tip for Type 2-76 Soldering Iron. NET..... 21c

DRAKE VARIABLE HEAT CONTROL

A new variable heat control that will regulate the heat of your soldering iron. A convenient toggle switch, mounted on the base of the stand, instantly selects the heat required for your work. Will keep any soldering iron up to 150 watts at constant desired heat; preventing burning or corrosion of tip due to overheating. A necessity for every service level production line, etc. For 115 Volts A.C. or D.C. Shipping weight, 3 lbs.

B2202. YOUR PRICE..... \$2.23

7-INCH SOLDERING IRON HOLDER

A sturdy, well-built soldering iron holder measuring 7 inches long. Solidly constructed. Useful in the shop, lab, or on service calls. Prevents scarring or burned surfaces.

B2206. YOUR PRICE..... 12c

ICA SOLDERING IRONS



A new, practical soldering iron, well-designed and properly built. Heating element is of the highest quality resistance wire, wound on heat-resisting bobbin of machined and threaded Inconel. Will heat in three minutes. Handle remains cool even after the iron has been on for hours. Plunger type tip is easily removed for cleaning or replacement. A heavy set screw keeps tip firmly in place, and provides for adjustment of tip length. With cord and plug. Reasonably priced. Will give long reliable service. A real iron for men who want the best.

B5520. 80 WATT. Developed for radio work. Ship. wt., 2 lbs. List. \$3.75. YOUR PRICE..... \$1.89

B5521. 110 WATT. Heavy Duty type; has $\frac{3}{16}$ " plunger type tip of adjustable length. Ship. wt., 2 lbs. List. \$5.50. YOUR PRICE..... \$2.65



MARVEL ELECTRIC SOLDERING IRON

A neat, compact soldering iron of high quality construction. Wide acceptance and great volume production make our remarkable low price possible. This soldering iron should be in every servicemen's kit. Only 10 inches long. For 110 volt A.C. or D.C. operation. Ideal for all radio work. Easy to use; retains heat efficiently, but cools quickly when it is disconnected from line.

UNDERWRITERS' APPROVED

This quality iron has a Nichrome wire element, mounted in a twin sleeve porcelain tube. Equipped with a good quality copper tip, the nickel iron. With brown finished well-insulated stay-cool handle and 3 foot Underwriters' approved flexible cord. A well-balanced unit. Suitable for general radio and light soldering work. A value that is unbeatable.

B6008. NET EACH, YOUR PRICE..... 28c

YOUR PRICE..... \$3.05

PER DOZ.

GARDNER RADIO SOLDER ROSIN CORE

A new rosin core solder especially developed for delicate electrical and radio work. Pure rosin-core flux assures freedom from corrosion. Makes dependable lasting joints. Can hold 3 to 4 oz. This reliable solder will give excellent results and save money.

B6182. PER CAN..... 12c

G 1 B4. 1 Lb. SPOOL..... 62c



JACKSON SOLDERING IRONS

A high grade line of electric soldering irons. Elements are wound on amber mica insulation over steel core. Available with plunger tips or with removable screw tips. All types are supplied with 8 foot cords. Ship. wt. 1 $\frac{1}{2}$ lbs., each.

WITH PLUNGER TYPE TIP

B6000. 75 Watt. With $\frac{3}{16}$ " copper rod tip with set screw. Nickel-plated tube. YOUR PRICE..... \$1.76

B6001. 100 Watt. With $\frac{3}{16}$ " copper tip $1\frac{1}{2}$ " long, with removable black handle. YOUR PRICE..... \$2.40

B6002. 150 Watt. With $\frac{3}{16}$ " copper tip with set screw. 1 $\frac{1}{2}$ " long. YOUR PRICE..... \$3.80

WITH REMOVABLE SCREW TIP

B6003. 75 Watt. With $\frac{3}{16}$ " removable copper tip. 1 $\frac{1}{2}$ " long. Nickel-plated tube. YOUR PRICE..... \$1.20

MAGIC STYLUS SOLDERING PENCIL

A new, small, easy-to-handle soldering tool. Ideal for soldering small parts in hand-to-ref. at corners. Heats quickly. Insulated handle with cork finger guard provides cool handling always. Tip is easily removed for cleaning or replacement. With 5 ft. cord. Underwriters' Approved.

B6150. 110 VOLT A.C. OR D.C. B6151. 6 VOLT D.C. (Storage Battery) NET EACH..... 72c



"HOT-SPOT" 75 WATT IRON

An inexpensive, well-built soldering iron. Ideal for both radio service and construction work. Comes to full heat quickly; heat is concentrated at the tip, where it is needed most. Solder cleanly and efficiently. Approved by the Underwriters' Laboratories. Stippled with $\frac{3}{16}$ " diameter removable, screw-type, tinned copper tip and soldering iron holder. Complete with heavy-duty A.C. line cord and unbreakable soft rubber line plug.

B2207. YOUR SPECIAL PRICE..... \$1.47

SOLDERING IRON TIPS

High quality replacement plunger type copper tips. Make your soldering iron as good as new.

No.	Size	NET EA.
B5997	$\frac{3}{16}$ x 2 $\frac{1}{2}$ "	30c
B5998	$\frac{3}{16}$ x 1 $\frac{1}{2}$ "	38c
B5999	$\frac{3}{16}$ x 2 $\frac{1}{2}$ "	45c

NATIONAL

SHORT WAVE EQUIPMENT



NATIONAL SW-3 RECEIVERS

A favorite with Amateurs and SW Fans the world over. Uses a highly efficient TRF circuit with single tuning control. Smooth non-loss regeneration permits setting at point of maximum sensitivity without "spilling over." Variable type, variable ratio dial provides either fast, medium or slow tuning. Volume control is calibrated in "R" units. Crinkle-finish steel cabinet is only 9 1/2" x 17". Wt., 17 lbs.

B10053. AC-SW3. For A.C. operation. Uses 2-58 and 1-27 tubes. Less coils, tubes and power supply.
B10054. DC-SW3. For 5 volt D.C. operation. Requires 2-30 and 1-27 tubes. Supplied less tubes, coils and batteries.
B10055. 200-SW3. For 2 volt battery operation. Uses 2-32 and 1-30 tubes. Less coils, tubes and batteries.

YOUR PRICE EACH

SW-3 COILS

Low-loss plug-in type coils for the National SW-3 receivers. Wound on 1/32 coil forms with liner rim for easy handling. Series "10" coils are for use in the original A.C. and D.C. SW-3; A.C. SW-3, A.C. SW-45. Series "60" coils are for use in present model A.C. SW-3 and A.C. SW-58. Both general coverage and hand-tuned series of coils are available for full coverage.

General Coverage Coils			
10 Series NO.	60 Series NO.	Meter Range	NET PER PAIR
B1435	B1425	9-15	\$3.00
B1436	B1426	13-25	
B1437	B1427	23-41	
B1438	B1428	40-70	
B1439	B1429	65-115	
B1420	B1430	115-200	\$3.30
B1421	B1431	200-300	
B1422	B1432	300-500	
BAND-SPREAD COILS			
B1435	B1440	10	\$3.00
B1436	B1441	20	
B1437	B1442	40	
B1438	B1443	80	
B1439	B1444	160	

PLUG-IN POWER PACKS FOR SW-3

For use with the National SW-3 receivers. Provide correct ball voltage for proper operation. Type 5889 also supplies 2.5 volts A.C. for tube filaments.
B10056. Type 5889 AB Power Supply. Requires 80 tube. For 110 V. AC. Less tubes. **\$17.70**
B10057. Type 5880 "B" Power Supply. Has electrostatic shield and hand-tuned section filter. Supplied 4 "B" sockets. 22-45 V. 40-50, 135 V., and 180 V. Uses 80 tube. **\$13.50**



HRO "JUNIOR" AMATEUR RECEIVER

A communication receiver with all the features of the HRO Standard except for tuning meter and crystal filter. Maximum gain and high signal-to-noise ratio attained with two tuned I.F. stages and two air-tuned I.F. stages. Accurately calibrated ganged plug-in coils. Micrometer dial with 500 divisions across angle bandspread (although not as great as the HRO Standard). The HRO Junior is supplied with coils tuning from 10 to 20 meters (2 amateur bands). Additional coils listed below. Housed in a black crystal steel cabinet, 8 1/2" x 10 1/2" x 10". Slog. wt., 35 lbs. Our Time Payment Plan makes it easy to own an HRO Junior. Write for details of attractive easy-to-pay terms.

B10065. For 2.5 Volt A.C. operation. Supplied complete with RCA tubes (1-58, 3-57, 1-2H, and 1-2AB), and one set of coils (10 to 20 meters). Less speaker and power supply.

B10066. For 5 Volt Battery operation. Supplied complete with RCA tubes (4-6D6, 3-6E6, 1-6H7, and 1-15) and one set of coils covering the Amateur 10 and 20 Meter bands. Less speaker and batteries. **\$108.00**

YOUR PRICE EITHER MODEL.....

DYNAMIC SPEAKER

B10067. A high quality "N" P-31 type speaker mounted in attractive table model metal cabinet. **\$14.10**

AB POWER PACK

B10046. Type 5887 AB. For use with 2.5 volt model HRO Junior. For 110 V. 60 Cycles A.C. Less 80 tube. Wt., 15 lbs. **\$15.90**

HRO JUNIOR COILS

B1400. Set of coils covering the Amateur 40 and 20 meter bands, 7 to 14.4 M.C.

B1401. Set of coils covering the Amateur 80 and 40 meter bands, 3.5 to 7.3 M.C.

B1402. Set of coils covering the Amateur 160 and 80 meter bands, 1.7 to 4 M.C. **PER SET \$9.90**

COMPLETE SELECTION OF 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.

B1525. Scale 0-100, 0, 180°.

Rotates in either direction.

B1526. Scale 200-0, 360° counter-clockwise.

NET EACH \$1.65

B1527. Illuminator for dial, with bracket. **30c**

TYPE "BM" 3"

Smaller than the "B" dial; similar in appearance. Scale with fixed ratio vernier.

B1528. Scale 0-100, 0, 180°, universal.

B1529. Scale 200-0, 360°, counter-clockwise. **EACH \$1.50**

TYPE "N"

Precision dials, with machine-divided scales and verniers of solid German Silver. Dial is 4" in diameter with a smooth planetary mechanism; 5 to 1 ratio.

B1530. Scale 0-100, 180°, c.c.

B1531. Scale 100-0, 180°, c.c.

B1532. Scale 150-0, 270°, clockwise.

B1533. Scale 200-0, 360°, counter-clockwise. **EACH \$4.05**

TYPE HRO 1 1/2" DIAL

B1534. Neat etched silver dial as used on the HRO receivers. Marked 0-10 over 160° clockwise. 1 1/2" diam., for 3/4" shaft. **NET \$4.50**

TYPE "A" 4" DIAL

Exceptionally smooth "Vernier Vernier" dial, entirely free from backlash. Self-contained vernier mechanism. Ratio 5 to 1.

B1536. Scale 0-100, 180° Counter Clockwise.

B1537. Scale 150-0, 270° Clockwise.

YOUR PRICE EACH \$1.80

TYPE "H" DRUM DIAL

Has positive dial read drive. Scale is projected on ground glass screen; in parallel. Overlays at right angles to condenser shaft.

B1539. Scale 0-100, 180°, c.c.

B1540. Scale 100-0, 180°, c.c.

B1541. Scale 150-0, 270°, c.c.

NET EACH \$3.30

TYPE "O" 3 1/2" DIAL

B1543. Attractive circular-graduated German Silver dial 3 1/2" diam. Reads 0-100 over 150° C.C. Large fitted inner ring lens for easy tuning. Fits all 3/4" shafts.

NET \$9.00

"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-flaring polished bakelite finish. Fits all 3/4" shafts.

B1545. **NET \$1.35**

GRID CAPS

Unique construction assures perfect ohmic contact with grid cap of tube.

B1547. For Standard Glass Tubes.

B1548. For All Octal Base Tubes. **NET EACH 3c**

B1549. For Transmitting Tubes. **NET EACH 6c**

AIR-TUNED

I. F. TRANSFORMERS

Efficient I.F. transformers with air dielectric condensers. Statite insulation; aluminum plates. Coils are Litz wound. Adjustable taps on top of shield can. Oscillators are tuned by a knob.

B1462. 450-550 KC IF.

B1463. 450-550 KC Beat Osc.

B1464. 175 KC IF.

B1465. 175 KC Beat Osc. **\$3.00**

DIODE TRANSFORMERS

Several units with air-tuned primary and close-coupled, bifilar, push-pull secondary. Designed for use in noise-shielding circuits, or in detector and AVC combinations, for coupling to a diode detector tube. Tunes 450 to 550 K.C. Jantenna mounted and thermally moisture-proofed. Enclosed in aluminum shield.

B1469. List. \$3.50. **\$2.10**

AIR-TUNED PADDERS

Extremely compact, sturdy condensers for use in high-frequency receivers, or in intermediate stages of low-power transmitters. Aluminum shield, 1 1/2", 1 1/2" diam., 1 1/2" x 1 1/2" high.

No. Mnf. Net.

B1472 75 **\$1.35**

B1473 100 **\$1.50**

LOW FREQUENCY OSCILLATOR COIL

For use in super-heterodyne receivers as intermediate-frequency oscillator. Consists of two separate inductances, closely coupled, mounted in an aluminum shield. Mounts easily by means of two spade lugs. Secondary inductance is 2.25 mh. Tunes to 100 kc with .0001 md. condenser.

B1476. List. \$1.50. **NET \$9.00**

S-101 AUDIO COUPLER

A high-impedance input coupling device of audio tube. Consists of two Henry plate coupling chokes, an coupling condenser and an nichrome resistor in metal case.

B1485. **NET \$3.60**

NET \$3.60

NATIONAL Short



NEW NATIONAL NC-80X RECEIVER

A new communications receiver designed for A.C.-D.C. operation, which has many new and exclusive features. Exceptionally high gain, selectivity, and sensitivity are provided by ten of the latest tubes in a new superhet circuit. New 1500 KC IF amplifier assures complete image suppression without R.F. pre-selector.

selection. Tuning range from 550 KC to 30 MC in continuous increments, making it ideal for the Amateur, DX enthusiast, or Short-Wave listener. New full-vision dial with multiple scales accurately calibrated; has auxiliary linear scale equipped with adjustable frequency markers for logging stations, marking band limits, etc. Dial has two vernier reduction rates, 16 to 1 and 80 to 1, each with separate knob.

AUTOMATIC COIL SHIFTING

Exceptionally wide bandwidth is provided on all tuning ranges, making tuning a pleasure on crowded high-frequency bands. A unique coil arrangement provides automatic coil shifting by means of panel control knob. New National crystal filter has continuously variable selectivity from 400 C.P.S. to 5 KC for sharp tuning of CW or for high quality reception of "phone signals. Self-contained power supply does away with separate unit; operates at maximum efficiency from any 110 Volt A.C. or D.C. supply. Beam power 25L6G output tube supplies 2 watts of undistorted audio to high quality 8" P.M. speaker. The NC-80 uses 1—6L7, 2—6J7, 3—6KT, 1—6X5, 1—6BE, 1—2N202, and 1—2N223 tubes. Complete with tubes and 8" P.M. speaker.

B10320. List, \$146.65. YOUR NET PRICE. \$8799

SPECIAL AMATEUR BAND NC-81X RECEIVER

A completely new communications receiver designed for maximum efficiency on the crowded Amateur bands. Similar to the Model NC-80X as described above but incorporates several features making it an exclusive Amateur model. Tuning range covers only the Amateur bands and does not cover the intermediate short wave frequencies. New mechanical bandwidth system will provide adequate bandwidth on the 160, 80, 40, 20, or 10 meter bands. Novel design of calibrated full-vision dial makes accurate locating of stations possible. This feature is extremely valuable to the Amateur operator who maintains traffic schedules, or to the DX fan; enables the operator to repeatedly retune stations previously located. New crystal filter with controllable selectivity makes reception of CW or "Phone signals possible even through severe interference. Has built-in power supply. For 110 Volts A.C. or D.C. **\$8799**

B10321. List, \$146.65. YOUR NET PRICE.



HRO STANDARD AMATEUR RECEIVER

Meets the most exacting requirements of high-frequency communication. Embodies such desirable features as: Two tuned I.F. stages; crystal filter with adjustable selectivity; calibrated ganged plug-in coils; simple control tuning; signal strength meter calibrated in "S" units; variable pitch beat oscillator. Micrometer type dial with 20 to 1 worm drive has 500 divisions for absolute bandspread and accurate tuning. Usable sensitivity and selectivity are extremely high with complete suppression of image frequencies. Complete descriptive literature on request.

B10062. FOR 25 VOLT A.C. OPERATION. With tubes and coils covering 1.7 to 30 MC. Less speaker and power supply.

B10063. FOR 6 VOLT BATTERY OPERATION. Complete with 4—6L7, 2—6X5, 1—6J7, and 1—42 R.C.A. tubes. With ganged plug-in coils covering 1.7 to 30 MC. Less speaker and batteries. **\$17970**

DYNAMIC SPEAKER

B10064. A high quality 8" P.M. type speaker mounted in tube model metal cabinet finished to match the cabinet of the HRO Standard. **\$14.10**

EXTRA COILS

Plug-in coil assemblies for the National HRO.

B1404. 175-400 KC. \$16.50
B1405. 300-1000 KC. 12.00
B1406. 900-2050 KC. 12.00

AB POWER SUPPLY

B10046. Type 58Y7AB, a heavy-duty power supply which supplies all necessary filament and plate voltage for the HRO Standard receiver. Uses 1—30 tube. For 110 Volts 50-60 cycles. Wt. 16 lbs. Less tube. **\$15.90**

The HRO Standard receiver may be purchased on our easy Time Payment plan. Write for details.

NATIONAL RECEIVING CONDENSERS



SE 270°

This well-known condenser has straight line frequency plates, 20 rotation. Sealtite insulated. Plates and frame are aluminum. It is compact, 15, 25 and 50 mm m.f. condensers with 018" spacing have a single bearing. Others have two bearings.



ST 180°

Similar to type SE, but with 180° straight-line frequency plates, and somewhat more compact. 15, 25 and 50 mm m.f. condensers with 018" spacing have a single bearing. Others have two bearings.

condensers have thick plates with rounded and polished edges. All other types have flat plates; edges are not polished. Ideally suited for use in all types of high-frequency receivers. Smaller capacity units are especially suited to bandspread circuits.

STOCK No.	CAP. MMF.	NO. OF PLATES	AIR GAP	NET EACH
B1300	15	6	.055"	\$1.50
B1301	25	9	.055"	1.65
B1302	50	11	.028"	1.80
B1303	75	13	.028"	1.95
B1304	100	20	.028"	2.10
B1305	150	29	.028"	2.25
B1306	200	37	.018"	2.25
B1307	250	32	.018"	2.40
B1308	300	39	.018"	2.40
B1309	335	43	.018"	2.55

STOCK No.	CAP. MMF.	NO. OF PLATES	AIR GAP	NET EACH
B1311	15	3	.018"	.90
B1312	15	7	.018"	.96
B1313	15	8	.028"	.96
B1314	35	8	.028"	.96
B1315	5	11	.028"	1.08
B1316	75	15	.028"	1.20
B1317	100	20	.028"	1.35
B1318	140	28	.028"	1.50
B1319	180	29	.028"	1.50
B1320	200	27	.018"	1.65
B1321	250	32	.018"	1.80
B1322	300	39	.018"	1.95
B1323	335	43	.018"	2.10

STOCK No.	CAP. MMF.	NO. OF PLATES	AIR GAP	NET EACH
B1343	50-50	11-11	.028"	\$2.10
B1344	100-100	14-14	.018"	2.70

ULTRA-MIDGET CONDENSERS

Compact midjet condensers. For use in receivers and transmitters. For padding or neutralizing and for Fixed-Tuned or band-switching transmitters. Insulative insulation. Shaft extends at rear for easy ganging.

Stock No.	Cap. Mmf.	Fact.	NET EACH
B1333	15	UM-15	\$0.75
B1334	35	UM-35	.90
B1335	50	UM-50	.90
B1336	75	UM-75	1.02
B1337	100	UM-100	1.14

Stock No.	Cap. Mmf.	Fact.	NET EACH
B1339	100	CMA-25	1.11
B1340	100	CMA-25	1.11
B1341	25	CMB-25	1.11

EXPERIMENTERS TYPE CONDENSERS

Superior to wippen type priced midjet condenser for SW set builders and experimenters. Sturdy, all-brass construction with bakelite mounting. Rotor and stator plates may be easily removed. Single hole mounting. These highly efficient little condensers are very popular with Amateurs and Experimenters.

Cat. No.	MMF.	NET, EACH
B1325	15	51c
B1326	25	51c
B1327	35	60c
B1328	50	64c
B1329	100	64c
B1330	140	75c

* Double spaced; others single.



STEEL CABINETS

For housing home-built receivers or special equipment. Used with such sets as National PH7, SW-2, SRR, PSK, HRO, and NC100. Undrilled panels and sub-bases. Black crinkle finish. Complete with sub-base and bottom cover.

No.	Type	Size	NET
B10306	C-SRR	7 1/2" x 7 1/2"	\$2.10
B10307	C-FB7	11 1/2" x 11 1/2"	4.20
B10308	C-PSK	6" x 8" x 12"	3.60
B10309	C-SW3	9 1/2" x 7"	3.30
B10310	C-110	11" x 7" x 7 1/2"	2.70
B10311	C-HWR	13 1/2" x 7" x 7 1/2"	3.00
B10312	C-110	12 1/2" x 8 1/2" x 7 1/2"	3.60
B10313	C-NC100	17 1/2" x 8 1/2" x 11 1/2"	6.10

PRECISION GANGED CONDENSER WITH MICROMETER DIAL

A precision condenser assembler assembly for H.F. circuits. Huc-cellic built with four bearing shaft. Insulated rotor has brush type contacts. Stator insulated with Sealtite. Has 20 to 1 worm drive with micrometer dial. S.I.F. plates.



160 MMF. PER SEC. No.	Sections	225 MMF. PER SEC. No.	Sections	NET
B1350	2	B1353	3	\$12.00
B1351	3	B1354	4	14.40
B1352	4	B1355	5	16.50

B1523. Complete Drive Unit. Consists of closed worm drive and micrometer dial described above. **NET \$9.00**

Above condensers are also available in single section types, in capacities of 150, 200, 350 and 500 mmf. Grounded rotor. **\$9.00**

EACH NET \$9.00

Wave

EQUIPMENT



CRM CATHODE-RAY OSCILLOSCOPE



Now every Amateur Radio Station can have an oscilloscope at a moderate price. The new National Model CRM is designed to provide a graphic picture of actual operating conditions in transmitter circuits. Uses the new 913 Cathode-Ray tube with one inch screen. Has a built-in power supply and 50 cycle sweep circuit; also has provisions for the use of an external sweep if desired.

CHECKS MODULATION

The CRM requires only two tubes: 1-913 and 1-6X5 rectifier. Easily operated; has Focus, Brilliance and Sweep Amplitude controls on front panel. Fills FCC requirements for checking modulation of Amateur "phones; patterns are easily interpreted. Completely self-contained in sturdy metal case, 4 1/2" x 6 1/2" x 5 1/2". Small enough to be easily handled, yet capable of doing a real job in any "ham" station. For 110 volts, 50/60 cycle A.C. **\$110** List 117. Less tubes. NET **\$110** B10317. RCA tube kit for CRM Oscilloscope. NET **\$5.81**

NATIONAL NC-100 ALL-WAVE RECEIVER

30 MC TO 540 KC

An amazingly efficient 12 tube superhet for the discriminating Amateur or Short-Wave Listener. Capable of extremely high performance over its entire frequency range of from 540 to 20,000 KC. Has many unusual features of design, including an ingenious coil-tuning mechanism. Incorporates the efficiency of individual plug-in coils with a smooth, rapid band-change switch. The micrometer dial and worm-drive tuning mechanism provides an accuracy of tuning that amazes the operator. Panel controls are grouped for easy operation and include: Range Selector; A. V. C.-Manual Volume-Beat Oscillator control switch; Combined A.C. on-off, and Stand-by switch; R.F. and Audio Gain Control; Tone Control, etc. Crystal filter model also has variable filter and phasing control. The NC-100 has a tuned preselector stage which operates on all bands. Power supply is built in and is hum-free.



ELECTRIC EYE FOR ACCURATE TUNING

Tubes used are: 3-6K7, 4-6J7, 1-6C5, 2-6F6, 1-6E5 and 1-80. The calibrated electronic tube on front panel accurately indicates strength of incoming signals. Antenna input is arranged for either doublet or single-wire antenna. 10" electro-dynamic speaker is mounted in black crinkle-finish metal cabinet; receives field excitation from power supply built into receiver. The NC-100 is housed in a black crinkle-finish steel cabinet 17 1/2" x 14 1/2" x 10 1/2". Ship. wt., 65 lbs.

NC-100 AC MODEL

Complete with matched set of tubes and built-in power supply. Supplied with high grade 10" Dynamic speaker in metal cabinet to match receiver finish. P. or 110 Volts. **\$125.10** NET

B10048. NET

NC-100X CRYSTAL MODEL

Same as NC-100 listed above, but has built-in single-signal crystal filter. Filter circuit is equipped with panel controls for phasing and variable selectivity. Crystal filter makes extreme selectivity possible for CW reception, also reduces side bands for "phone reception. Complete with tubes and cabinet. **\$147.60** NET

B10049. NET

NC-100 BATTERY MODEL

Similar to A.C. model, but for operation with 6 volt storage battery and "B" batteries for plate supply. Uses 3-6K7, 4-6J7, 1-6C5, 1-6F6, and 1-6E5 tubes. **\$121.60** With tubes and speaker. NET

B10315. NET

NC-101X HAM MODEL

A special model of the NC-100 for Amateur Communication. Tuning ranges cover only 160, 80, 40, 20 and 10 meter "Ham" bands. Supplied with calibration curves accurate to 25% of operating frequency. Has built-in crystal filter and power supply. With tubes and speaker in metal cabinet. For 110 volts, 50/60 cycles. **\$134.10** NET

B10316. NET

WRITE FOR DETAILS OF OUR TIME PAYMENT PLAN

NATIONAL TRANSMITTING CONDENSERS

TYPE TMS LOW POWER

Precision type condensers, rigidly constructed, for use in low-power stages of transmitters. Low C condensers are rated at 2000 Volt Peak; others are 1000 Volt Peak. Conical front bearings; single ball thrust, radial rear bearing. Steatite-Insolant Insulation. For Oscillators, Buffers, Doubblers, Etc.

No.	Mmf.	Plates	NET
B1358	100	10	\$1.60
B1359	150	14	1.80
B1360	250	23	2.10
B1361	350	32	2.16
B1362	50-50	5-5	2.25
B1363	100-100	9-9	2.70

For Low C. Type 210 Amplifiers

No.	Mmf.	Plates	NET
B1365	35	8	1.80
B1366	50	11	1.95

TYPE TMC-MODERATE POWER

For use in power stages of transmitters where the peak voltage does not exceed 3000 volts. Extremely rigid front and rear bearings. Steatite-Insolant Insulation. Aluminum plates have buffed edges; air-gap is .071". Have conical front bearing and radial rear bearing with single ball thrust. Stator of split-stator model is supported at both ends.

No.	Mmf.	Plates	NET
B1375	50	7	\$2.40
B1376	100	13	2.70
B1377	150	21	3.15
B1378	300	30	3.90
B1380	100-100	13-13	4.50

For RK-18, RK-19, RCA-800 \$36, \$62A, \$10, ETC.

TYPE TMA HEAVY-DUTY

Insolant insulated. Aluminum plates, with buffed edges. Peak voltage of airgaps: .071", 3000 V.; .171", 5000 V.; .255", 5000 V.; .359", 12000 V.

No.	Mmf.	Airgap	NET
B1384	300	.077	\$ 7.20
B1385	200-200	.077	9.00
B1386	50	.171	3.90
B1387	100	.171	5.00
B1388	150	.171	6.70
B1389	250	.171	9.60
B1390	50-50	.171	6.80
B1391	100-100	.171	10.70
B1392	100	.265	10.20
B1393	150	.265	11.70
B1394	60-60	.265	4.50
B1395	50	.359	6.80
B1396	100	.359	8.70
B1397	40-40	.359	8.10

NEUTRALIZING CONDENSERS

TYPE TCN

A heavy-duty neutralizing condenser with a peak voltage rating of 6000 volts. Maximum capacity 25 mmf. For use with 203A, 852, 201A and 116 tubes.

B1368. NET **\$2.40**

TYPE NC-800

For use with the RFA 800 or other tubes which require small neutralizing capacity. Insolant insulation. Screwdriver adjustment with lock nut. Max. capacity 10 mmf.

B1369. NET **\$1.80**

TYPE NC-150

A high-voltage condenser for neutralizing the HK-351, RK-36, 300T, 852 and like tubes. Max. capacity 12 mmf. Adjustable from .2 to 1.6". Insolant insulated.

B1370. NET **\$3.90**

TYPE 8TN

Suitable for neutralizing type 45, 47, 10, or similar tubes. Lantite-insulated. Max. cap. 18 mmf. Peak voltage breakdown, 3000 volts. Ideal for buffer or doubler stages.

B1371. NET **\$1.20**

CRYSTAL HOLDERS

VERTICAL TYPE

Mounts crystal in vertical position, allowing it to vibrate freely. Permits rapid change of crystals. Milled B-29 body, with metal shield. Less crystal.

B1568. Resonator Type

B1569. Transmuting Type

CHT. NET EACH **\$1.50**

VARI-GAP CRYSTAL HOLDER

Permits tuning over a range of 6 KC when used with special 2.5 MC crystal (12 KC on 7 MC, 24 KC on 14 MC). B-29 holder for socket mounting supplied with six inch flexible shaft, 0-10 dial, knob, and panel bushing. This holder cannot be used with X or Y cut crystals.

B1561. Holder only **\$5.70**

B1562. With crystal **\$19.50**

NATIONAL TRANSMITTING BOOK

B1600. Contains 14 pages of data on design and construction of a modern half-kilowatt "phone transmitter, using newest tubes 10c and circuits. NET **\$1.00** Fred with purchase of National Equipment.

SHAFT COUPLINGS

TYPE TX-4

B1550. A small efficient condenser shaft coupling. Hubs fit 3/4" shaft. Insulation is Steatite. NET **66c**

TX-11 & TX-12

Flexible shaft with 1/2" hubs for driving 1/2" offset shafts up to 90 degrees. Free from backlash. TX-12 has insolant insulated hubs.

B1551. TX-12. NET **75c**

B1552. TX-11. Plain hubs, not insulated. NET **36c**

TX-1 & TX-2

For use with transmitting condensers in high voltage circuits. Insulation of glazed insulator. Hubs fit any 3/4" shaft. TX-1 leakage path is 1/2" TX-2 leakage path is 2".

B1553. TX-1. NET **60c**

B1554. TX-2. NET **66c**

NATIONAL SHORT WAVE EQUIPMENT

FB7A & FBXA RECEIVERS



Two popular seven tube communication type receivers for the Amateur and S.W. Features: ample sensitivity and selectivity; 2-all-tuned IF stages; full-vision dial with seven inch scale; front panel jacks in coils; complete shielded and filtering for signal stability; electron-coupled oscillators, etc. Designed to make operation easy at all times. Single control tuning. Calibration charts are mounted on front of cabinet. Model FBXA has built-in crystal filter. 11.9x12.3". Ship. wt., 29 lbs.

B10046, FB7A. Complete as described above, less crystal filter. Requires 2-68, 1-57, 1-54, 3-24A, 1-50 tubes. Supplied less tubes, coils and power supply.

Coils below
NET

\$41.70

- B10045, FBX-A CRYSTAL MODEL.** With crystal filter for single signal reception. Less tubes, coils and power supply.
NET
- B10046, HEAVY-DUTY POWER PACK, Type 5897AB.** For maximum performance. For Wt., 18 lbs. NET. **\$57.00**
- B10047, POWER SUPPLY, Type 5887AB.** For use with above sets for headphone operation only. 110 V., 50/60 cycles, Less 80 tube.
Wt., 16 lbs. NET. **\$15.90**
- \$14.70**

COILS FOR FB7A & FBXA RECEIVERS

General coverage and Band-Spread coils. Forms are R39; windings are covered with protective sleeve. With metal end and handle.

BAND-SPREAD COILS

No.	Band Range	PER PAIR
B1447	10 meter B.S.	\$7.20
B1448	20 meter B.S.	
B1449	40 meter B.S.	
B1450	80 meter B.S.	\$6.00
B1451	160 meter B.S.	

GENERAL COVERAGE COILS

No.	Frequency	NET EACH PAIR
B1453	34,000 to 18,000 Kc.	
B1454	18,000 to 11,400 Kc.	
B1455	11,400 to 7,000 Kc.	
B1456	7,000 to 4,900 Kc.	
B1457	4,200 to 2,400 Kc.	\$6.00
B1458	2,400 to 1,500 Kc.	
B1459	1,500 to 900 Kc.	

NATIONAL INSULATORS



- B1570, TYPE AA-3.** Steatite feeder spreaders, 6 1/2" long, 3/4" dia.
- B1571, TYPE AA-5.** Aircraft compressed die strain insulator.
NET EACH **18c**
- B1572, TYPE AA-6.** Steatite. Length, 1/4"; 1/2" dia. NET. **21c**



STAND-OFF INSULATORS

- B1573, Fig. A.** Small insulative insulator designed for extreme efficiency. Make ideal forms for H.F. and U.H.F. chokes. Metal mounting feet. Type GS4. 1 1/2" high, 1/2" diam. NET. **15c**
- B1574, Fig. A.** GS2. 2 1/2" high, 1/2" diam. NET. **21c**
- B1575, Fig. B.** A Steatite insulator for mounting parts on metal chassis bases. 425 tapered 8-32 each end. GS8 and GS7 tested 10-24 each end. GS5. 1 1/4" high. **15c**
- B1576, Fig. B.** GS6. 3" high. NET. **27c**
- B1577, Fig. B.** GS7. 3" high. NET. **45c**
- B1578, Fig. C.** GS8. A small Steatite insulator suitable for use in Low Loss H.F. circuits for coil mountings, etc. Base has 1/4" mounting centres. NET. **21c**

XTS COIL FORM

- Low-loss Steatite form for R.F. chokes, precision resistors, etc. Four sections, wire slot between sections and to terminals.
B1508, NET EACH... 30c

XSS HF BUSHING

- A small Steatite shoulder-type flat bushing. Mounting 3/8" diam., 3/16" thick with 5/16" hole.
B1509, NET EACH... 9c

FIXED TUNED EXCITER TANK

- An ideal unit for use in multi-band exciter using band-switching. Aluminum case 1 1/2" x 2 1/2" contains two 25 mmf. 2000 VV condensers and R-39 coil form, 1 1/2" long, 1" diam. With plug-in base to fit tube sockets. Aluminum shield isolates condensers; tunes from top.
B1512, TYPE FXTB, 3 Prong Base, NET... \$2.94
- B1513, TYPE FXTB, 6 Prong Base, NET... \$2.94**
- B1511, TYPE FXT, Without plug-in base, NET... \$2.70**

NATIONAL SOCKETS

LOW-LOSS ISOLANTITE

- For use in H.F. receivers and in other general stages of 100-meters, 6 prong Special Socket for National Coils is square; others as illustrated.
- No. PRONGS
- | | | |
|-------|---|---------------------------|
| B1580 | 4 | List. 60c |
| B1581 | 5 | NET EACH |
| B1582 | 6 | 36c |
| B1583 | 7 | |
| B1584 | 8 | |
| B1585 | 8 | Octal for Metal Tubes |
| B1586 | 8 | For National Coils... 45c |

50 WATT SOCKETS

- A high grade moderately priced socket; has glazed ceramic insulation and metal shell binding post terminals.
B1588, XM-50... \$1.05
- List. \$1.75. NET. **\$2.10**
- B1589, XC-50. ALL-STEATITE.** Low-loss; provides safety from arc-over. Contacts are only metal in entire assembly.
List. \$3.50. NET. **\$2.10**

ACORN TUBE SOCKETS

- B1591, FOR TRIODES.** Five contact clips on Isolantite.
NET **90c**
- B1592, FOR PENTODES.** Has aluminum base with all-contacts hi-passed to ground. NET **\$1.20**

POWER PENTODE TYPE

- Large water tight Isolantite socket for the 1K28 and 1K4 803 power pentodes. Three point mounting. Side-wiring contacts.
B1594, EACH... \$2.16
- B1595, As above, but less stand-off insulators. NET... \$1.80**

UNIVERSAL MOUNTING TYPE

- Completely new, universal Isolantite socket. May be mounted in several ways by means of stand-off insulator and metal flange supplied. Full pin wiring terminals do not extend above top of socket and cannot raise shorts.
- | No. | PRONGS | EACH List. 40c |
|-------|--------|------------------|
| B1516 | 5 | |
| B1517 | 6 | NET |
| B1518 | 7 | NET |
| B1519 | 8 | NET |
| B1520 | 8 | Octal 24c |



NATIONAL R-100 R.F. CHOKE

Ideal for high frequency circuits. Extensively used in receivers and low-tower stages of transmitters. Has continuous 4 section universal winding on Isolantite form. Distributed capacitance is only 1 nufd. 2 1/2" Ht., 1 1/2" Dia. 50 ohm D.C. resistance.
B1479, List. 60c. YOUR PRICE, 36c

TRANSMITTING TYPE CHOKES

Universal chokes with honey-comb-type windings in five sections. Rated at 600 MA continuous. Inductance, 1 MH, 10 ohms D.C. resistance. R152 is for the 150 meter band, and R154 for the 40 meter band.

- B1481, R152... \$1.35**
- B1482, R154, NET EACH... \$1.35**
- B1483, 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. **\$1.05**

NATIONAL COIL FORMS RECEIVER FORMS

Low-loss R-20 forms which are extremely popular with Amateurs and Experimenters. Easy to work. Finger-grip rim. 1 1/2" dia., 2 1/2" long.

B1490, 3 Prong... 45c

B1491, 3 Prong... 45c

B1492, 3 Prong... 45c

TRANSMITTER FORMS

Ceramic torus for winding low-loss transmitter inductances. Grooved and drilled. 1 1/2" dia., 2 1/2" long.

B1494, XR10A, 20 or 40 meter, NET... 90c

B1495, XR12A, 80 or 160 meter, NET... \$1.50

B1496, XR13, (1 1/2" Dia. x 3 1/2" long.) NET... 66c

BUFFER COIL FORM AND SOCKET

A new isolantite, low-loss coil form assembly, 1 1/2" x 1 1/2" long. Plug with four traces is easily attached to coil form by two screws. Socket is equipped with five rugged side-wire contacts. Plug and socket are made of R39 low-loss insulation.

No.	Description	NET
B1498	Complete Assembly	\$1.50
B1499	Coil Form only	.66
B1500	Coil Plug only	.45
B1501	Coil Socket only	.45

PLUG-IN COIL FORM AND SOCKETS

This completely new UR-10A coil form and socket assembly consists of the UR-10A coil form for 20 and 40 meters and an entirely new Isolantite Plug-in Base and Socket. Five pointer plug is easily attached to coil form by means of two screws. Plug may also be used separately for air-wound coils. Socket and five mounting lugs are completely with special attachments for mounting on TMA condensers if desired.

B1503, TYPE UR-10A, Coil Form Assembly, Complete, NET... \$2.76

B1504, TYPE UR-10A, Coil Form Only, NET... 90c

B1505, TYPE PB-15, Plug-in Base Only, NET... 81c

B1506, TYPE XB-15, Socket Only, NET... \$1.05

ROTOR CLAMPING DEVICE

B1556, For clamping rotor shaft of TMA or TMC National Transmitting Condensers. Easy to mount. Holds firmly. **\$1c**

ALL-STAR TRANSMITTERS

ALL-STAR TRANSMITTER KITS

Here is a modern half-kilowatt transmitter in easy-to-assemble kit form. Every Amateur or Beginner planning a complete high-power CW and Phone rig should give serious consideration to the All-Star Kit. Designed by leading engineers. Every detail of layout and wiring is worked out and provided in wiring and pictorial diagrams. Requires only a few hours time for easy assembly and wiring with fewest possible tools such as pliers, soldering iron and screwdriver. All panels, chassis, etc., are completely drilled and finished.

40 WATT RF UNIT



The ideal transmitter for the beginner, or for the old timer who wants to modernize his station. Consists of 47 crystal oscillator and a 502 buffer driving the push-pull 802 amplifier. Provides four band operation with only two crystals. Band changing is by plug-in coils. Blocked grid keying of the amplifier stage effectively prevents key clicks. Complete kit contains all necessary parts, drilled and finished panel and chassis base, coil forms, condensers, etc. Less tubes and crystal. Requires 1-47 and 2-802 tubes. Instruction book furnished.

B9850. 40 WATT KIT. \$32.85

LOW VOLTAGE POWER SUPPLY KIT

Complete kit of parts for the low voltage power supply for use with the 40 watt H.F. unit. Has all necessary parts. Requires one type 83 tube. For 110 V. 50/60 cycles.

B9851. Less tube. NET. \$28.25

SPEECH AMPLIFIER AND POWER SUPPLY

B9852. May be used as a modulator for the 40 watt RF unit or as driver amplifier for 200 watt modulator. Supplied with either T-793M4 modulation transformer of T-803A driver transformer. Input for carbon or crystal mike. Uses 2-6C6, 2-7B, 2-4Z, 1-8S, and 1-82 tubes. Kit complete with T-793M4 transformer.

Less tubes and mike. NET. \$34.75

B9853. Same as above but with T-803D1 driver transformer. Ad-justably excites the class "B" tubes in the 200 watt modulator to full output. NET. \$34.75

500 WATT R.F. AMPLIFIER

Any amateur with a low power transmitter can, by use of the All-Star 500 watt RF unit, increase power economically. Designed for use with the 40 watt RF unit described at top, or may be used with any RF unit furnishing 15 to 25 watts for excitation. Uses two 888 tubes in push-pull. Panel and chassis base are drilled and finished. Even the beginning "Ham" can build and operate the complete kit. Kit contains panel, chassis base, hardware, condensers, chokes, insulators, meter, everything except the tubes and plate coils. No need to spend hours deciding how to build a high power amplifier. Order your present rig or for the 40 watt All-Star transmitter.

B9854. Less tubes and plate coils. YOUR PRICE. \$27.15

HIGH VOLTAGE POWER SUPPLY

B9855. For use with the All-Star 500 watt R.F. amplifier listed above. Includes panel, chassis, transformers, chokes, condensers, insulators, etc. Requires 2-808 tubes. Complete ready to assemble. Less tubes. NET. \$48.95

200 WATT MODULATOR

B9856. Will 100% modulate the 500 watt R.F. amplifier or your present 500 watt CW rig. Requires the speech amplifier at top (B9853) or similar unit as a driver amplifier. Uses 2-838 tubes in Class "B". Kit contains panel, chassis, transformers, chokes, etc. No power supply included. Obtains "B" voltage from the High Voltage Power Supply. Less tubes. NET. \$25.65

B12510. 38 1/2" INCH RACK. Standard 19" relay rack; has ample room for the 40 watt RF unit, low voltage power supply, and a speech amplifier-modulator units. Shipped knock-down. 20 lbs. NET. \$8.95

B12511. 73 1/2" INCH RACK. For rack mounting of the All-Star units for complete 500 watt CW, 100 watt phone rig. Shipped knock-down. Wt., 40 lbs. NET. \$10.95

JOHNSON INDUCTORS FOR ABOVE TRANSMITTER

High efficiency, plug-in tank coils for the 500 watt H.F. stage.

No.	Type No.	Meters	NET
B9864	636	20	\$3.00
B9865	634	40	3.23
B9866	632	80	3.47
B9867	630	160	4.85

ALL-STAR INSTRUCTION BOOK

18 complete pages of assembly data for the All-Star Transmitter. Clear concise instructions, photographic layouts, and detailed wiring diagrams make construction easy. **B11002. NET. \$1.50**

TRIPLET MODULATION MONITOR

Provides visual indication of carrier shift and accurately measures percentage of modulation. More efficient than antenna meter calculations, aural modulation checks, and loop-and-light measurements. Accurately calibrated at factory, uses type 78 tube which can be replaced without affecting calibration. By means of easily adjusted inducting coupling this unit may be used with phone rigs of any power rating. Trip-tilt dial meter. Size, 4 1/2" x 3 1/2" x 1 1/2" Wt., 11 lbs. With tube. For 110 V. 60 cycle A.C. **D9969. List, \$37.25. YOUR PRICE. \$24.33**



NEW UTAH TRANSMITTER KITS

Only a few months old but steadily increasing in popularity with all American, old-timers and beginners alike. Designed to provide maximum efficiency; circuits are based on newest and latest type tubes. Can be assembled and wired in a few hours. No cutting or drilling; all cabinets and chassis bases drilled and finished.

80 WATT CW KIT

An ideal starting rig for the beginner. A base on which to build to a complete 500 watt station. For the old-timer it's a peach of an auxiliary unit to allow operation on several bands. It's new and up-to-the-minute; uses a 6L6 penetrator crystal oscillator, parallel 6L6's in the I.F. amplifier, and 1-5Z3 rectifier. Will safely handle input power up to 80 watts; more if properly handled. Attractive steel cabinet, 18x16x9 1/2" is finished in black crystal. Circuit design provides maximum safety without excessive power requirements. Easy to assemble; all drilling and punching are already done for you. Requires one 0 to 50 and one 0 to 250 M.A. meters, 2" size. All parts are carefully selected; power supply units will insure maximum performance even under continuous operation. Start your Utah transmitter now. Kit comes complete ready for assembly. **B9858. Complete kit, less only tubes, crystal and \$49.75 meters, NET.**



50 WATT MODULATOR KIT

B9859. When used with the 80 watt CW kit will provide a nifty little moderate-power phone rig. Has input for any type mike; output of 50 watts with adjustable impedance output transformer. Uses 2-6C5, 1-6N7, 1-6Z7, 2-6L6G, 1-80, and 1-5Z3 tubes. Requires 2 meters: 0-50 and 0-200 M.A. size. Has self-contained power supply. Cabinet same size and style as 80 watt kit. Complete, less tubes and meters. NET. \$44.50

ANTENNA COUPLER KIT

B9860. A complete antenna-matching unit for use with either the 80 watt CW kit, or with the complete 400 watt transmitter. Has 2000 volt tuning condensers and low-loss coil. Will match any type of tuned feeder system. Coil links complete to I.F. amplifier. Cabinet, 18x9x7 1/2". Requires 1-0 to 5 R.F. ammeter. Supplied with all necessary hardware; coil already wound. Less meter. NET. \$13.95

500 WATT R.F. AMPLIFIER

B9861. A high efficiency 500 watt R.F. amplifier which can be driven by the Utah 80 watt CW unit, or any similar exciter unit. Uses 2-735 and 2-806 tubes. Has a heavy-duty built-in power supply designed for continuous service. Input circuit is arranged for link coupling to exciter stage. Plate load is specially designed high-Q coil. Requires two 3 1/2" meters, 0-100 and 0-500 M.A. Cabinet matches other Utah units, size 18x16x9 1/2". No antenna coupling circuit; use Coupling Unit B9860. Complete, less tubes and meters. **\$49.75 NET.**

250 WATT MODULATOR KIT

B9862. A high-quality high-power modulator for use with the 500 watt R.F. amplifier above or with any similar high-power R.F. stage. Uses 2-2B12 or 2032 tubes. Has self-contained high voltage power supply. Requires two 3 1/2" meters, 0-100 and 0-500 M.A. Housed in same size and style cabinet as all other Utah kits. Complete, less tubes and meters. NET. \$49.75

NEW UTAH BEGINNERS' TRANSMITTER KIT

Designed especially for the beginner with a limited budget. A complete kit of parts to build a new low power CW rig of true commercial appearance. Uses 1-1L6 a regenerative circuit-controlled circuit with 20 watts power supply. Uses 1-5Z4 rectifier in built-in power supply. Has 2-802 tubes. Cabinet matches other Utah measures. 10 1/2" x 10 1/2" x 10 1/2". Has antenna coupling link for coupling to a "Zapp" feed system. Has power-off and send-receive switches. Etched dials with range markings on 2 1/2" x 1 1/2" carbon mike. Includes all parts except crystal, meter and tube. **\$15.95**



RCA ACT-20 TRANSMITTER

Especially designed for the advanced amateur requiring a reliable factory-built transmitter at low cost. Will deliver 20 watts into any single or two-wire antenna system. Uses 1-597 crystal oscillator, 1-802 buffer-doubler, 1-807 I.F. amplifier, 2-3R3 rectifiers, 1-4F5 and 1-6P5 speech amplifiers, and 2-6L6 modulating tubes. Has 2-1000 ohm 1/2" carbon mike. Incorporates many exclusive features permitting maximum flexibility of operation. Unique semi-fixed capacitors and plug-in coil system permit single control tuning. Either CW or Phone is provided at the flip of a switch. Operates on all bands, 169 down to meters. Equipped with coils for one band only; specify band desired. Less tubes, crystal and mike. **\$129.50**

B11012. YOUR PRICE.

B9488. Complete sets of coils for either 160, 80, 40, 20, or 10 meter bands. Specify band when ordering.

NET PER SET OF COILS FOR ANY SPECIFIED BAND. \$5.25

B9490. R.C.A. Tube Kit for Audio Section. \$11.70

B2550. R.C.A. Double-Button Microphone. 6.90

Short-Wave RECEIVERS TRANSCEIVERS

RME MODEL 69 SINGLE SIGNAL SUPERHET



A precision-built receiver for the Amateur and Short-Wave Listener. Improved circuit develops exceptional efficiency across entire frequency range of receiver. Has two 5 inch illuminated dials; one calibrated in megacycles for easy accurate tuning; and one calibrated for bandspread. Finest tuning is provided by plane-wave speaker dial. Features:

Carrier level meter calibrated in DB and R units; modulation indicator built-in; tuned preselector stage; three-position crystal filter; coil assembly permanently shielded; electron-coupled oscillators, etc. Band switch provides rapid selection of any frequency band from 550 to 22,000 K.C.

PRESELECTION ON ALL BANDS

High-gain preselector stage eliminates image signals; increases selectivity and sensitivity to weak signals. Each RME-69 is individually hand made. All major parts, I.F. coils, etc. are laboratory-built and subjected to rigid tests. Workmanship is of the highest quality throughout. Tubes used are: 5-CD6, 1-6C6, 1-6J7, 1-42 and 1-80. Every RME-69 is completely laboratory-built and tested. Tubes included with each set are those used for final laboratory test, which assures you that the set you receive is perfectly aligned and adjusted for maximum performance. Illustrated with Noise Silencer which is extra. See listing and price below.

B10175. Complete with cabinet model speaker: **\$151.20**
with tubes. YOUR PRICE.....

B10176. Complete with tubes, less speaker. **\$139.35**
YOUR PRICE.....

The RME-69 Receivers listed above are available with built-in LS-1 Noise Silencer and tubes at an additional price of \$11.40 net. Specify "With Built-in Noise Silencer" when ordering.

WRITE FOR DETAILS OF OUR TIME-PAYMENT PLAN

RTL "COMPACT" PORTABLE TRANSMITTER-RECEIVER 56-60 MC



A portable unit that is "at home" anywhere you may find it. Permits Duplex or Break-in QSO's without switches. Transmitter employs 1-30 as input amplifier, 1-19 as Class B F. Modulator, and 45 as push-pull oscillator. Carrier, 2 watts, 8 watts peak. Non-radiating receiver uses 1-24 or 1-1A3 TIF stage, 1-30 super-regenerative detector and the 2-watt audio system of the transmitter. Both the transmitter and receiver operate from the same antenna. Entire unit housed in 12"x12"x12" enameled finished steel case with leather carrying handle. Batteries fit in lower compartment. Requires 3 portable type 45 volt "B" batteries, 2 dry cells, and 1-4 1/2 volt "C" battery. Weight only 2 1/2 lbs. 6.50 lb. batteries. Weight less battery 12 1/2 lbs.

B10192. The Compact, Battery-operated Portable Transmitter-Receiver. 12"x12"x12" net. **\$26.50**

B1014. TELESCOPING FLEX-STEEL ANTENNA. Reinforced. For use with the Compact described above. Has special nickel-plated base as illustrated. Adjustable from 2 1/2 to 9 ft. NET... **\$2.60**



PEAK PRE-SELECTOR AND PRE-AMPLIFIER

A new improved model of the famous Peak Pre-selector. Will add increased efficiency to any Amateur or SW receiver by increased sensitivity to weak signals. Permits complete control of B.F. sensitivity range, image and greatly increases signal-to-noise-ratio. Tunes from 2 to 200 meters in four bands. Uses 2-6X8 tubes, 7-4 20X 7-10".

B10183. Less tubes. **\$19.80**
YOUR PRICE.....

NEW IPS RUBBER CRYSTAL



Do you get the heavy QRM "click" your transmitters! You can make every QSO 100% with this new remote-control exciter unit; slide out from under interfering signals; put your own signals on the exact frequency that that DX station you want to hook; move around in uncrowded portions of the band—all as easy as tuning your receiver. The IPS Rubber Crystal can be placed on the operating table and lens-rounded to your buffer stage. Bands-read tuning permits shift of frequency as great as 50 kc. with any chosen spot frequency. Output is sufficient to drive a pair of 1R-29s, 802s, 10s, 755s, 397s or similar tubes. Easily attached to your present transmitter. Just remove crystal and link-mount the "Rubber Crystal" to the plate coil of the oscillator, or to the grid of the buffer stage. Uses 2-6L6 tubes. Complete with 20 meter coils.

B10330. Rubber Crystal complete with 80 meter coils, less tubes and power supply. NET... **\$28.50**

B10331. Heavy-Duty Power Supply (less 83B tube). NET... **\$15.90**

ADDITIONAL COILS FOR RUBBER CRYSTAL

B10332. 160 meters. **B10334.** 20 meters. NET **\$2.00**

B10333. 40 meters. **B10335.** 10 meters. EACH SET **\$2.00**

NEW RCA AMATEUR RECEIVERS ACR-155



A new up-to-the-minute communications receiver. All controls counsel on front panel make operation easy and untrifling. Has 100-1 tuning ratio; Calibrated hand-panel for sensitive listening; HF and Audio gain controls; AVC "on off" switch; Standby supply selector; Beat oscillator on/off and pitch controls; Tone control; and many other features. Insetting the 'phobus in front panel jack mutates the speaker.

TUNES 520 TO 21,000 KC

Three band, continuous tuning range from 520 to 21,000 KC; Amateur bands clearly defined with ample bandspread. Tuned I.F. stage on all bands. Tuning dial shows calibrated scale for only the range in actual use. The ACR-155 comes complete with tubes, built-in power supply, built-in 5" dynamic speaker, and complete instructions. Tubes used are: 2-6X7, 2-6J7, 1-6L6, 1-6BE, 1-6E5, 1-6E6, and 1-5W4. Ventilated metal cabinet finished in two-tone wrinkle gray finish measures 24 1/2"x12 1/2"x10 1/2". S.P.C. Wt., 59 lbs. For 110 Volts, 50/60 cycles.

B10399. Complete with tubes, and built-in power supply. **\$74.50**
YOUR PRICE.....

NEW ACR-111

This fine 16 tube super-tetrode was carefully designed to fill every requirement of modern high-frequency communication service. An ideal receiver for the amateur or S.W. listener. Tunes from 520 KC to 22 MC in 5 bands. Features include 2 low-core IF stages; crystal filter; signal strength indicator; calibrated dial scale for each band; amplified and delayed AVC with off switch for CW reception; and calibrated pitch bend oscillator. The 2 stage tuned RF amplifier provides ample pre-selection and image suppression. Has uniform bandspreading on all ranges except 540-1600 KC. Careful shielding throughout assures maximum aerial stability. For 110 volts, 60 cycle AC. Housed in rugged metal cabinet. 33 1/2"x21 1/2"x14". All controls are conveniently grouped on front panel.



B10398. Complete with all tubes and 8" push-pull dynamic speaker. **\$189.50**
YOUR NET PRICE.....

AR-67 COMMERCIAL RECEIVER

This 2 band super-tetrode has been specially designed for the reception of radio-telephone, telegraph, and line signals between 76 and 1500 KC. Particularly suited for marine use. Will withstand the most severe operating and climatic conditions. Features include: tuned RF stage; all IF coils air-tight; 2 stages of variable-selectivity; frequency IF; automatic sensitivity control; CW beat oscillator; output limiting control—output to headphones or 600 ohm line. Housed in gray wrinkle-finished metal table cabinet. 21 1/2"x12 1/2"x14". For 110 volts, 40-60 cycle AC, or external battery operation.



B10396. Complete with tubes, less speaker. **\$275.00**
YOUR NET PRICE.....

NEW RTL 56-60 MC DUPLEX TRANSMITTER-RECEIVER

Type TR6A6. A complete transmitter and receiver that permits Duplex operation in the Amateur 5 meter band. Receiver and transmitter each use network, high efficiency circuits; individually shielded. The operator may talk and listen without throwing a switch as is required in transceivers, thus enabling duplex or break-in operation. Excite unit housed in a single sturdy steel case measuring 15 long, 7 1/2" deep and 7 1/2" high. Transmitter uses unit-coiled 6A6, with Class "B" modulation; carrier power 10 watts. Four tube super-regenerative receiver has tuned I.F. elements are 250 to 200 volts with built-in dynamic speaker. Power requirements are 250 to 200 volts at 175 mA, and 6 volts at 3.5 amps. May be used for portable mobile or permanent station. Tubes required are: Transmitter, 2-6A6, 1-6BE; Receiver, 1-7K, 2-7E, 1-12. Less tubes, coils, power-supply and antenna. 16 1/2" lbs.



B10190. Less tubes. **\$47.60**

B10191. 110 VOLT A.C. POWER SUPPLY. For use with TR6A6 described above. Complete with cables and plug. Provides 200 volts DC at 125 mA, and 6 volts at 3.5 amps; also 2.5 volts at 14 amps. Requires 1-5Z7 rectifier tube. Less tube. **\$30.00**

YOUR PRICE.....

B2505. Universal Single Button Handmixer with 6 Ft. Cord. NET **\$5.88**

Modern Short Wave

RECEIVERS

LATEST HALLICRAFTERS

SHORT WAVE RECEIVERS



LOW PRICED SKY BUDDY

Here is the ideal receiver for the amateur or short wave fan who has always wanted a professional type receiver at an inexpensive price. Has all the features of the larger sets, and is capable of real professional performance. New circuit makes five tubes do the work of eight. Tunes from

18 to 355 meters. In 3 bands. Features include iron core I.F. A.V.C., which can be turned off for CW reception; calibrated dial, with 36 to 1 grid bandspread action; shielded beat oscillator, controllable from panel; and built-in power supply and speaker. Arranged for use with either straight antenna or doublet. Headphone jack and all controls are mounted on the front panel. Uses tubes as follows: 1-2A7, 1-6BT, 1-75, 1-42 and 1-50. Housed in rugged, hand-rubbed, mahogany-like metal cabinet. An exceptionally fine receiver at a low price. For 110 Volts, 60 cycles A.C. **\$29.50**

B1014. YOUR PRICE, With Tubes.



SKY-CHIEF

A new communication type receiver of superior design and construction. Includes crystal filter and superhetrodyne circuit makes use of seven tubes to give top tube performance. Among the features of this remarkable set are: Band switching, to tune from 17.5 MC. to 540 KC., covering amateur, short wave broadcast, police, and regular broadcast bands; variable beat oscillator strength indicator;

iron core I.F. stage; A.V.C.; R.F. and audio gain controls; mechanical bandspread; built-in speaker and power supply, and stand-by switch. Uses 1-78, 1-8A7, 1-6BT, 1-75, 1-42, 1-6G5, and 1-80 tubes. In attractive, rugged metal cabinet. For 110 Volts, 60 cycles A.C. **\$44.50**

B1015. YOUR PRICE, With Tubes.



SKY CHALLENGER

A recent addition to the Famous "HalliCrafter" line. The "Sky Challenger" embodies many of the salient features of the higher-priced "Super SkyRider." Has been engineered to satisfy the most exacting amateur. Covers all frequencies from 40,000 to 535 K.C. (7.5 to 560 meters) with no gaps, smooth continuous electrical band spread, a feature

included only in the more expensive ham receivers. Features include are: Iron core I.F.'s; air-trimmed K. F. coils; nine tubes as follows: 1-6G5, 1-6BT, 1-6L7, 1-6Q7, 1-6T6, and 1-80. Single-Signal action (crystal optional); Headphone Jack; A.V.C. switch; Send-receive switch; Beat Oscillator Pitch control; Tone control; Antenna circuit arranged for either doublet or conventional antenna; 1 watt of audio power, etc. With tubes. Less speaker. **\$69.50**

B1015B. Model S-15.

B10159. Model SX-15. With crystal. **\$79.50**

B10164. 8" P.M. speaker in attractive metal case. **\$9.50**

WRITE FOR DETAILS OF THE HALLICRAFTERS TIME PAYMENT PLAN



NEW SARGENT COMPASS AND VISUAL BEARING INDICATOR

Designed to fill the requirements of small boat and yacht owners for an accurate, inexpensive radio compass. Also functions as radio receiver with continuous tuning range from 200 to 3500 meters. Provides both visual and audible check of bearing signal. Consists of a high efficiency receiver with built-in Jensen speaker, calibrated tuning dial, beat oscillator for code reception; and a 145° plug-in type loop with an accurate 360 degree bearing scale. Operation is extremely simple; simply tune in stations of known position; visual indication of sharp null point permits readings of extreme accuracy. Has dash-light range of 250 miles with greater night-time range. Electron-ray tube is used as a visual indicator; speaker permits double check by audio-signal. Supplied complete with loop, tubes, receiver and instructions. Requires 6 cell battery; maximum drain 5 amperes. Shipped wt., 30 lbs. **\$175.00**

B10390. YOUR NET PRICE.

NEW SUPER SKY-RIDER

- Latest 1938 Type
- Directly Calibrated 6 Band Dial
- Electro-Mechanical Bandspread



The "Headliner" for 1938! Built to satisfy even the most critical Amateur or Short Wave listener. This newest of all communications receivers has literally "everything." Features: Continuous tuning range, 545 K.C. to 62 MC. in 6 directly calibrated ranges; Signal strength meter; Inertia tuning; Extreme bandspread; Variable selectivity; I.F.G. with pitch control; Ceramic-insulated tank circuits and tube sockets; Illuminated dials; 11 tube superhet circuit with extreme sensitivity; R.F. stage on all bands with controllable gain; and many more features, found only in receivers costing much more. The new 1938 Super Sky-Rider has been designed to fill every need of the advanced Amateur as well as the beginner. It is also ideally suited for every service requiring maximum performance on the I.F. bands. Supplied with 5-6K7, 1-6L7, 1-6T6, 1-6T7, 2-6V6, 2-6J7G, and 1-5Z5 tubes. For 110 volts 50-60 cycles. **\$99.00**

YOUR NET PRICE.

B10161. MODEL SX16. Same receiver as above except that it includes crystal filter in an integral part of receiver. **\$111.00**

Complete with 11 tubes, less speaker. **NET**

B10162. SPEAKER. Large 12" P.M. Dynamic speaker. Metal housing has acoustically-treated wooden baffle to eliminate vibration. Will perfectly match receivers above. **NET** **\$12.00**

S-12 COMMERCIAL SKY-RIDER

An 11 tube superhet receiver designed to meet the communication needs of ship and aircraft operators. Continuous tuning range from 26.1 to 29.7 meters (110 KC to 11.5 Mt.). I.F. frequency is 1600 KC. Uses 4-6K7, 1-6L7, 1-6R7, 2-6L6, 1-6G5, 1-6G5 and 1-5Z4. Calibrated 338 degree main tuning dial. Has many features used in Super Sky-Rider above. **\$99.50**

B10156. With Tubes, less speaker.

NET

B10157. MODEL SX-12. As above but with improved crystal filter; factory-peaked, for true single signal operation. **\$114.50**

NET

B10163. 12" P.M. SPEAKER. In metal cabinet. **NET** **\$12.00**

ULTRA SKY-RIDER

Designed for use on the 3.75 to 53 meter bands. Covers the 5, 10, 20 and 40 meter bands. Features: I.C.T. dials; Iron core I.F. s; R.F. and Audio gain controls; "Send-Receive" switch, etc. Uses 10 tubes as follows: 2-6V6, 2-6L7, 1-6T7, 1-6G5, 1-6R7, 1-6Q7, 1-6T6 and 1-5Z1. In handsome black metal cabinet. **\$99.50**

B10152. Model S-10.

Less speaker. With tubes. **NET**

B10153. MODEL SX-10. As above but with crystal filter and panel controlled crystal phasing condenser. **\$114.50**

NET

B10163. 12" P.M. Speaker in metal cabinet. **NET** **\$12.00**

NEW SARGENT RECEIVERS

ALL-WAVE RECEIVER MODEL 11-AA

Standard all-wave communication receiver for the Amateur or Short Wave fan. Uses five highly efficient tubes in a modern R.F.P. circuit. Carefully designed to provide unusual selectivity with the greatest possible signal ability. No plug-in coils are used; bands are selected by switching. Has built-in power supply, break-in switch and headphone jack on panel; precisely calibrated main tuning dial; smooth, silent regeneration control; built-in Jensen dynamic speaker. Covers all Amateur, Short Wave Broadcast, Commercial and regular Broadcast bands from 9.5 to 550 meters. Smooth operating mechanical bandspread is controlled by separate tuning dial with absolute freedom from backlash. Model 11-AA may be used with either doublet or single wire antenna. Uses 1-6V6, 1-6D6, 1-7C, 1-42, and 1-80 tubes. Housed in attractive, sturdy metal cabinet, finished in dark crackle enamel. For 110 volts, 60 cycles AC operation. **\$52.00**

B10391. Complete with tubes. YOUR NET PRICE.

Hammarlund Precision PRODUCTS



SEPARATE POWER SUPPLY

External power supply measures 107 3/4" x 9 1/2" over all; equipped with long connecting cables. Has a separate rectifier for grid-bias; supplies full excitation for the dynamic sweeper. For 110 Volt, 60 Cycle A.C.

B10141. MODEL SP-110. Has full tuning meters. Complete with tubes, power supply, and 8" speaker. For 110 volt 50-60 cycle operation. **NET**.....

B10142. MODEL SP-110S. Tuning range of 74% to 240 meters. Complete with tubes, power supply and 8" speaker. For 110 volt 50-60 cycle operation. **NET**.....

The Super Pro is also available with rack mounting panel and dust cover; with power supply for other voltages. Write for prices.

NEW "110" SERIES "SUPER PRO"

FINEST PROFESSIONAL TYPE COMMUNICATIONS RECEIVER

- Electrostatically Shielded Input
- Noiseless Band Switching
- Two T. R. F. Stages on All Bands
- Continuously Variable Selectivity
- Visual Tuning Meter
- Calibrated Band-Width Control

NEW 16 TUBE CIRCUIT

The world's finest all-purpose communication receiver. Built around a 16 tube superhet circuit that includes every major development in high efficiency receiver design. Includes more real features than any previous model. Yet is simple enough for even the novice to tune in stations from every part of the world. Now available in two models: SP-110 (tunes from 15 to 260 meters in 5 bands); SP-110S (tunes from 15 1/2 to 240 meters in 5 bands). Either model with or without crystal filter. Particularly suitable for all Commercial, Marine, Aircraft, Municipal, or Amateur communications work.

range from 15 to 260 meters in 5 bands. **\$243.00**

range from 15 1/2 to 240 meters. **\$243.00**

B10143. MODEL SP-110X. Same as Model SP-110 but has built-in crystal filter for extreme selectivity on C.W. and phone. With tubes, power supply and 8" speaker. For 110 volts, 50-60 cycles. **NET**.....

B10144. MODEL SP-110X. Same as Model SP-110 but has built-in variable selectivity crystal filter. With tubes, power supply and 8" speaker. For 110 volts, 50-60 cycles. **NET**.....

You can buy your Super Pro receiver on our convenient deferred payment plan. Complete schedule of payments will be sent on request.

MANY NEW FEATURES

These new series 110 Super Pro receivers incorporate every desirable feature for maximum performance. Main tuning dial with 12 to 1 ratio calibrated in KC and MC. Variable band-width of 3 to 16 KC for high fidelity reception; with calibrated control. More features are: Beat oscillator, isolantite-mounted coils, noiseless handwinding, A.V.C., and manual controls, variable I.F. sensitivity, handwound on all I.F. bands and many others. Uses excellent metal and elect. glass tubes. Send for copy of Hammarlund catalog for complete data.

with tubes, power supply and 8" speaker. **\$261.00**

with tubes, power supply and 8" speaker. **\$261.00**

I. F. TRANSFORMERS

TYPE "M"



Specially designed for experimental and replacement purposes. Double-tuned, with mica condensation type condensers on Isolantite base. Adjustable from top of can. Coils are lit-wound and wax-insulated. Aluminum shield can is 2 1/2" dia., 3 1/2" high. It is mounting by threaded lugs on 2" centers.

Untapped	Frequency	Center Tapped
B5390	175	B5352
B5391	465	B5353
B5395	465	Beat Oscillator

List. \$1.65. **YOUR PRICE..... 99c**

TYPE "ST" MIDGETS

As above but in compact .75" square. By 2" high. Mica centers. 1 1/2" square. Untapped Frequency C.T. List. \$1.65.

B5366	175	B5358	NET
B5367	465	B5359	NET
B5364	562		EACH. 99c

"AIR-TUNED" TYPE



For use where absolute stability is necessary. Air-tuned, with lit-wound coils. Tune from top. Trimmer condenser mounted on Isolantite base. Provides 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 3/4" dia., 5" high.

Untapped	Freq.	dia.	C.T.	NET EACH
B5360	175		B5363	
B5361	465		B5364	
B5366	465		Beat Oscillator.	\$2.70

VARIABLE COUPLING TYPE



Type VT. Permits continuously variable selectivity from sharp peak to high fidelity; air-tuned. I.F. frequency 465 KC. Size, 2 1/2" x 3 1/2". **B5378. NET..... \$3.30**

B5385. Type VTC. Variable coupling mechanism for panel control of up to 4 VT transformers. **NET..... \$1.50**

B5387. Type VTD. 465 KC. beat oscillator. For electron-rotor oscillator. **YOUR PRICE EACH..... \$2.70**

"TS-50" ALUMINUM TUBE SHIELD



Complete isolation is afforded by this shield for the new high-gain RF protodes. Drawn in neck connects shielding between grid and plate of tube. Special design affords maximum cooling. 4 1/2" high. 1 1/2" diameter. 1 1/2" mounting centers. **B5398. NET..... 24c**

HAMMARLUND TRIMMING AND PADDING CONDENSERS

"EC" EQUALIZERS

For balancing, neutralizing and trimming purposes. Mica dielectric bakelite base. 1 1/2" x 1 1/2". Adjusting screw in center. **B5374. 3-35 MMF. List. 30c. 18c**

YOUR PRICE..... 18c

B5375. 25-80 MMF. List. 40c. YOUR PRICE..... 24c

"MEX" EQUALIZER

Extremely small low-loss condenser. Screw adjustment. Isolantite base, with mica dielectric and phosphor bronze plates. 3 to 30 mmf. 5/8" x 3/4". **B5376. List. 30c. NET..... 18c**

TYPE "IBT"

A high grade mica padding condenser. 1 1/2" high. 1 1/2" diameter Isolantite base. Maintains original capacity setting; resisting moisture, temperature and vibration. With 1-35 mounting studs on 1 1/2" centers.

No.	MMF.	List	NET
B5420	10-70	50c	30c
B5421	70-140	60c	36c
B5422	140-220	70c	42c

"APC" MICRO CONDENSERS

High quality air-dielectric condensers; compact in size. Particularly adaptable to S.W. and 4-trial S.W. work. Isolantite base. Air gap .015". Will fit 1 1/4" dia. cans. Screwdriver adjustment.

No.	MMF.	Max. MMF.	List	NET
B5324	25	3.0	\$1.30	\$0.78
B5325	50	3.9	1.50	.90
B5326	75	4.5	1.70	1.02
B5327	100	5.5	1.90	1.14
B5442	140	6.5	2.25	1.35

"ICT" IRON CORE I.F. TRANSFORMERS

A new iron core I.F. transformer which provides maximum gain per stage coupled with extremely sharp selectivity. Core is of high permeability magnesian alloy; rust-proof and non-corrosive. Isolantite mounted trimmers. Size 1 1/2" square, 1 1/2" high. Mounting centers 1 1/2". I.F. frequency 465 KC.

No.	MMF.	NET EACH
B5445	Single stage input.	
B5446	Single stage output.	
B5447	Two stage input.	
B5448	Two stage interstage.	
B5449	Two stage output.	\$1.80

TRANSMITTING CONDENSERS

TYPE "MTC"

For high and ultra-high frequency units. High operating efficiency has been attained by careful workmanship. Aluminum plates, silver-plated rotor contacts, and Isolantite insulation insure complete stability under all conditions. Each condenser comes with hardware for both panel or base mounting.

No.	Plates	Cap. (mmf.)	Air Dielectric	Voltage Rating	NET
B5630	15	35	.117"	5000	\$3.60
B5631	5	20	.070"	3000	1.95
B5632	10	25	.070"	3000	2.10
B5633	11	50	.070"	3000	2.34
B5634	11	100	.070"	3000	3.00
B5635	31	150	.070"	3000	3.66
B5636	3	50	.070"	1000	1.68
B5637	11	100	.071"	1000	1.83
B5638	15	150	.071"	1000	1.92
B5639	20	200	.071"	1000	2.16
B5640	35	305	.071"	1000	2.40

I Polished round-edged plates—.040" thick.
II Polished round-edged plates—.025" thick.
III Standard type plates—.025" thick.

"MTC" DUALS

Similar in construction and characteristics to the "MTC" singles. Strapped in series, providing a total capacity of half the capacity of one section. Twice the breakdown voltage.

No.	Plates	Capacity (mmf.)	Plate Per Sec. Spacing	Plate Per Sec. Spacing	NET
B5641	5	20	.070"		\$3.15
B5642	10	25	.070"		3.30
B5643	11	50	.070"		3.60
B5644	21	100	.070"		5.25
B5645	5	50	.071"		2.70
B5646	5	100	.071"		3.00
B5647	15	150	.071"		3.15
B5648	25	205	.071"		3.60

Plain edges. Others are rounded.

H.F.D. DUAL MICRO CONDENSERS

A new dual condenser for use in low capacity trim-meters, etc. Has Isolantite base; new built-in mounting; individual wiping contact for each section; shield between sections for grounding. Cadmium plated brass plates solderable 1/2 shaft. 1 1/2" size only. 1 1/2" high x 3/8" wide. Double spaced.

No.	Capacity (mmf.)	List	NET
B5437	50	\$2.75	\$1.65
B5438	100	3.25	1.95
B5439	140	3.75	2.25
B5440	28.5"	3.25	1.95

Transmitting Equipment



RK49

RAYTHEON

TRANSMITTING TUBES

Ruggedly built to give excellent service and long life at full rated output.

RK49
A new beam-power tube Tetrode for Amateur use. Fil., 6.3V at 15 Amps. Plate, 400 V. max. at 100 MA. max. Power output, 35 Watts, 6 prog Isolating base, B676.

\$2.10

RK39
A beam-power triode transmitting tube for oscillator or double output use. Fil., 6.3V; Plate voltage, 750 V. at 80 MA. max. Power output, 20 to 30 watts. B672.

\$3.50



RK39

CARDWELL CONDENSERS MIDWAY

Sturdily built, compact, variable condensers. Aluminum plates and frames are carefully machined and finished; Mycalex insulation. Double bearings assure perfect alignment. Peak voltage ratings are at 4 MC. Shaft 1/8" x 1". With isomet bushings. Mtr. space, 3 1/2".



RECEIVING

Small and compact. Ideal for portable receivers or low-power portable transmitting. Aluminum plates and frame. Cadmium-plated steel shaft. Air gap, .07". Peak voltage, 1000.

No.	Mf.	NET
B22840	25	\$1.59
B22842	70	1.93
B22843	105	1.79
B22844	130	1.83
B22845	365	2.23

TRANSMITTING

For medium-power transmitters up to 100 watts (C.W. or 20 Watts phone). Plates have rounded edges and are polished. Suitable for both tuning and neutralizing. Air gap, .07". Peak voltage, 500.

No.	Mf.	NET
B22850	35	\$1.91
B22851	35	2.06
B22852	50	2.32
B22853	100	2.88
B22854	150	3.53

MIDWAY DUALS

CAT. NO.	TYPE NO.	MMF. Per Sec.	PEAK Per Sec.	NET
B22863	MIR-23-BD	25	1200	\$2.56
B22864	MIR-50-BD	50	1200	3.76
B22865	MIR-150-BD	150	1200	5.10
B22866	MIR-100-KS	100	1200	3.10
B22867	MIR-260-BD	260	1200	3.23
B22868	*MT-20-GD	20	3500	3.28
B22869	*MT-60-GD	60	3500	3.49
B22870	*MT-70-GD	70	3500	3.49
B22874	*MT-100-GD	100	3500	4.70
B22875	*MO-150-BD	150	2000	4.70

*Rounded Plate Edges.

TRANSMITTING TYPES

Incorporate every advanced feature in modern condenser design. Mycalex insulated. Accurate and reliable. High dielectric constant. Peak at 4000 volts and are hot polished extra heavy plates with rounded edges. Triangular size.

CAT. NO.	TYPE NO.	MMF. Per Sec.	PEAK Per Sec.	NET
B22878	XT-20-PB	220	3500	\$2.65
B22879	XT-440-PB	440	3500	4.53
B22880	XP-90-KS	90	4000	2.65
B22881	XP-165-KS	165	4000	2.65
B22882	XP-290-KS	290	4000	2.65
B22883	XP-330-KS	330	4000	6.35
B22884	NE-240-KS	240	4250	6.35
B22885	XT-150-KS	110	5250	1.52
B22886	TJ-150-U	150	5200	13.52
B22887	TJ-315-U	315	5200	18.82
B22888	TZ-80-KS	80	1200	23.23

TRANSMITTING DUALS

CAT. NO.	TYPE NO.	MMF. Per Sec.	PEAK Per Sec.	NET
B22837	NT-80-PD	88	3500	\$3.23
B22838	NT-210-PD	214	3500	5.23
B22839	NT-325-D	325	4000	16.94
B22842	NG-50-KD	50	5250	6.29
B22843	NG-110-KD	110	5250	10.58
B22836	TZ-40-KD	40	1200	25.25

TRIM-AIR MIDGETS

For use wherever high quality trimmer condensers are required. High dielectric constant. Insulated assembly insures greatest possible stability; minimum losses. Universal mounting facilities. Small enough to mount inside IF or HP shield can. Two or more can be easily ganged. Can be used for midrange condenser or low voltage neutralization. With mounting hardware and extension shaft.



Stock No.	Cap. NET	MMF. Per Sec.	PEAK Per Sec.	MMF. NET	
B22832	10	\$0.73	B22861	100	\$1.03
B22833	15	1.03	B22862	140	1.95
B22834	25	1.52	B22863	200	2.07
B22835	35	1.93	B22864	300	2.07
B22836	50	2.42	B22865	400	2.07
B22837	70	2.91	B22866	500	2.07
B22838	100	3.40	B22867	600	2.07
B22839	150	4.37	B22868	800	2.07
B22840	200	5.34	B22869	1000	2.07
B22841	300	6.31	B22870	1500	2.07

TRIODES				
Type	No.	Plate Diss.	Class of Service	NET
RK10	B650	12W	B-C	\$3.50
RK18	B651	40W	B-C	10.00
RK24	B652	35W	B-C	10.00
RK24	B657	1.5W	B-C	2.25
RK30	B661	35W	B-C	10.00
RK31	B662	40W	B	10.00
RK32	B663	50W	B	12.00
RK34	B664	10W	B-C	3.50
RK35	B665	35W	B-C	3.50
RK36	B666	100W	B-C	14.50
RK37	B667	35W	B-C	8.00
RK38	B668	100W	B-C	13.50
RK41	B669	20W	C	1.10
RK42	B670	21W	C	1.10
RK43	B671	Dual Triode	C	7.00
RK100	B672	100W	C	27.50
841	B678	12W	C	2.25
842	B679	12W	C	2.25
864	B680	Preamp. Triode	C	1.00

PENTODES				
Type	No.	Plate Diss.	Class of Service	NET
RK17	B652	10W	A-C	\$ 4.50
RK20	B654	40W	C	15.00
RK20A	B654	10W	C	17.50
RK23	B656	10W	C	4.50
RK23	B658	10W	C	4.50
RK23B	B659	10W	C	4.50
RK28	B660	100W	C	34.50
RK39	B672	20W	C	3.50
RK43	B673	3W	B	2.06
RK45	B674	10W	B	5.65
RK46	B675	40W	B	21.75

RECTIFIERS				
Type	No.	Peak Volts	Max. Amps.	NET
RK19	B683	1250	0.3	\$ 7.50
RK21	B684	1250	0.3	7.50
RK22	B685	1250	0.3	7.50
866A	B686	10,000	0.6	4.00
872A	B687	10,000	2.5	16.50

CLASS OF SERVICE. CLASS A: Audio Amp.; CLASS B: Class "B" Mod. or Class "B" RP Amp.; CLASS C: R.F. Osc., Buffer, Doubler, or Amp.

EIMAC TUBES

Designed especially for heavy service, this line of tubes has a reputation for being able to "take a beating" and for long life. Plates and grids of tantalum; envelopes of hard Nonox glass. Will operate efficiently at either high or low frequencies. Real value; used by leading Amateurs.

Low-power general-purpose triode. Fil. 5 V. at 4 A.; Plate voltage 200 to 1500; Triode dissipation 35 watts. Ideal for use as I.F. oscillator or doubler.

B130. YOUR PRICE.....\$8.00

General-purpose triode. Amplification factor 12. Plate dissipation 100 W.; Class C power output up to 400 W. For R.F. service or Class B modulator.

B131. YOUR PRICE.....\$13.50

General-purpose triode. Amplification factor 30. Same as 1007-L but requires less driving power and lower bias. Especially suited for use in diathermy equipment.

B132. YOUR PRICE.....\$13.50



MERRILL LOW "C" TRANSMITTING TUBES

Designed for maximum efficiency in high or low power transmitters. Low dielectric losses; rapid construction. More efficient, less bulky than copper tubing. "T" series coils which are wound with No. 10 wire will stand 1 KW. in out. "A" series coils are for medium power stages. "A" series are for Antenna Coupling.

No.	Type	Turns	Dia.	NET
B2676	20A	5	3/4"	\$0.69
B2677	40A	8	3/4"	1.02
B2678	80A	12	1"	1.02
B2679	160A	16	5/8"	1.20
B2680	20A	11	2 1/2"	1.00
B2681	40B	22	2 1/2"	1.05
B2682	80B	38	2 3/4"	1.29
B2683	160B	58	3"	1.58
B2684	20T	10	2 1/2"	1.06
B2685	40T	20	2 1/2"	1.66
B2686	80T	28	4 1/2"	1.66
B2687	160T	42	5 1/2"	2.16

For use with 75 mmf. capacitor. Other "B" and "T" coils use 35 mmf.

OHMITE VOLTAGE DIVIDERS

Ideal for transmitting power supplies. Non-variable rated. Have sliding contact. 100 watt size is 6 1/2" long; 200 watt, 10 1/2" long. Hollow ceramic core permits adequate air circulation to prevent overheating; covered with baked enamel coating. Operate on contact slide.

100 WATTS				
No.	Ohms	M.A.	NET	
B2255	10,000	100	\$1.32	
B2256	25,000	50	1.32	
B2257	50,000	25	1.47	
B2258	75,000	16	1.62	
B2259	100,000	11	1.62	
B2260	EXTRA SLIDER		.09	

200 WATTS				
No.	Ohms	M.A.	NET	
B2261	10,000	141	1.76	
B2262	25,000	89	2.06	
B2263	50,000	49	2.06	
B2264	75,000	39	2.06	
B2265	100,000	29	2.06	
B2266	EXTRA SLIDER		.09	

OHMITE R.F. PLATE CHOKES

High efficiency R.F. chokes for all transmitter circuits. Single layer windings on ceramic core are held in place and insulated with a moisture-proof coating. Started at 1000 MA.

B2250. TYPE Z1. For the 5 meter band. Inductance, 5.4 microhenries. D.C. resistance, .85 ohms. Only 1 3/8" long with convenient pig-tail leads.

B2251. TYPE Z2. For 10 and 20 meters. 35 microhenries. Resistance, 2 ohms. Length, 3 1/2" diam. 1 1/2". With mtr. brackets.

B2252. TYPE Z3. For 20 and 40 meters. 25 microhenries. Resistance, 5 ohms. Length, 3 1/2" diam. 1 1/2". With mtr. brackets.

B2253. TYPE Z4. For 40, 80, 160 meters. 220 microhenries. Resistance, 8 ohms. Size, 5 1/2" x 7". With mounting brackets.

88c

Transmitting Equipment



RCA DeFOREST TRANSMITTING TUBES

The complete line of RCA DeForest transmitting tubes offers a tube over Amateur use. Accepted by Amateurs all over the world. Our listing below is complete, covering all types available.

NEW RCA-807 BEAM POWER TUBE

Designed for RF service. Plate connection at (0, 0) ceramic base. Impedance matching eliminates neutralizing. Plate dissipation 21 watts. Fil. 6.5 volts at 0.9 amp. Max. plate 400 V. at 95 MA.

\$3.90

NEW RCA-913 CATHODE RAY TUBE

A new low-voltage cathode ray tube of the electrostatic deflection type. Has one inch screen. Especially suited for incorporation in Amateur transmitters, oscilloscopes and oscillograph equipment.

\$5.00



Taylor Tubes

TRANSMITTING TYPES

- New Ultra H. F. Tubes**
- T20** Oscillator, R. F. Amplifier, Modulator, Plate Dissipates 20 watts. **\$2.45**
- B1100, NET**
- T220** Zero bias Oscillator, R. F. Amplifier, Modulator. **\$2.45**
- B1104, NET**
- T55** Oscillator, R. F. Amplifier, Plate dissipates 55 watts. **\$8.00**
- B1102, NET**
- T125** Oscillator, R. F. Amplifier, plate dissipates 125 watts. **\$13.50**
- B1103, NET**
- T155** Oscillator, R. F. Amplifier, Plate dissipates 155 watts. **\$19.50**
- B1104, NET**
- T200** Oscillator, R. F. Amplifier, Plate dissipates 200 watts. **\$21.50**
- B1105, NET**
- B11** Oscillator and R. F. Amplifier, Plate dissipates 200 watts. **\$18.50**
- B1106, NET**



GENERAL PURPOSE TUBES

- 866B** Half-Wave mercury vapor rectifier, B1107, NET. **\$3.00**
- 866J** Half-Wave mercury vapor rectifier, B1108, NET. **\$1.00**
- 866K** Half-Wave mercury vapor rectifier, B1109, NET. **\$1.65**
- 756** Oscillator, Doubler, Modulator, Dissipates 40 watts. **\$4.95**
- B1110, NET** Dissipates 40 watts. **\$4.95**
- B1111, NET**
- 203B** (Metal Plate) Audio and low power R. F. Amplifier, Dissipates 50 watts, B112, NET. **\$7.50**
- 203Z** (Metal Plate) Zero Bias Modulator, Dissipates 65 watts. **\$8.50**
- B1113, NET**
- 841A** H. F. Oscillator, Doubler, R. F. Amplifier, Dissipates 50 watts. **\$7.00**
- B1114, NET**
- 845** Audio Amplifier, Modulator, Delivers 22 to 28 watts Class A. **\$12.50**
- B1115, NET**
- 203A** Oscillator, R. F. Amplifier, Modulator, Dissipates 100 watts. **\$12.50**
- B1116, NET**
- 211C** H. F. Oscillator, R. F. Amplifier, Modulator, Diss. 100 watts. **\$12.50**
- B1117, NET**
- HD203A** Oscillator, R. F. Amplifier, Modulator, Diss. 150 watts. **\$14.50**
- B1118, NET**
- 822** (Super HD203A) Osc. Amp. Mod. Dissipates 200 watts. **\$18.50**
- B1119, NET**

POPULAR AMPEREX TRANSMITTING TUBES

- A well-known and reliable line of tubes, extremely popular with Amateurs and Experimenters. Carefully manufactured—built to rigid specifications. Graphite anodes, Channel type element supports, riveted plate contacts, non-weld grid structures, and high efficiency filaments, are but some of the many features which make them leaders in the field. Popular types are listed below. We can supply all other AmpereX tubes. Order with deposit.
- ZB120** Zero-bias A. F. and R. F. Power Amplifier and Modulator, Plate Dissipation 75 watts. **\$10.00**
- B1125, NET**
- HF100** R. F. Amplifier, Oscillator, Class B Modulator, Plate dissipation 75 watts. **\$12.50**
- B1126, NET**
- HF200** R. F. Amplifier, Oscillator, Modulator, Plate dissipation 160 watts. **\$24.50**
- B1127, NET**
- HF300** R. F. Amplifier, Oscillator, Modulator, Plate dissipation 200 watts. **\$35.00**
- B1128, NET**



TRIODES AND PENTODES

Type	Cat. No.	Plate Dis.	Class of Service	NET
203A	B290	100W	H-C	\$15.00
204A	B301	250W	H-C	\$17.50
211	B302	75W	A-B-C	15.00
800	B305	35W	H-C	10.00
801	B306	20W	A-B-C	10.00
802	B307	10W	C	3.90
803	B308	125W	C	34.50
804	B309	20W	C	3.90
805	B310	125W	B-C	15.00
806	B311	150W	H-C	24.50
807	B312	21W	C	3.90
808	B313	50W	B-C	10.00
809	B314	60W	H-C	10.00
834	B315	50W	C	12.50
837	B317	12W	A	1.25
838	B318	100W	B-C	16.90
840	B319	1W	A	6.90
841	B320	13W	A-B-C	1.25
842	B321	12W	A	1.25
843	B322	15W	A-C	12.50
844	B323	15W	A	1.25
845	B324	75W	A-B	15.00
849	B325	300W	A-B-C	160.00
850	B326	100W	C	37.50
851	B327	100W	C	16.40
860	B328	100W	C	32.50
864	B329	15W	A	1.00
865	B330	Presamp. pldr	C	1.75
868	B333	Phototube		3.78
917	B335	Phototube		4.75
918	B351	Phototube		4.75
919	B352	Phototube		4.75
920	B353	Phototube		5.25
954	B354	Acorn Pentode	C	1.50
955	B355	Acorn Triode	C	1.50
956	B356	Acorn Pentode	C	5.00
1802	B357	12W	A-B-C	2.75
1803	B358	Presamp. pldr	C	1.75
1808	B359	20W	C	4.00
1809	B360	Presamp. pldr	A	1.50
1810	B361	8W	C	2.00

RECTIFIERS

Type	Catalog Number	Peak Inv. Volts	Max. Amp.	NET
217A	B303	3500	0.6	\$28.00
217C	B304	7500	0.6	28.00
826	B305	4000	0.25	11.50
866	B331	7500	0.5	1.75
866A	B332	10000	0.5	1.40
872	B333	2500	2.5	14.00
872A	B335	10000	2.5	16.50
873	B336	20000	0.005	11.00
875	B337	7500	0.007	9.00
885	B338	Gas Triode		2.00

CATHODE-RAY TUBES

- 903.** B329, 9 in. Electromagnetic Deflection **\$ 86.00**
- 904.** B340, 5 in. Electrostatic-Magnetic Deflection **52.50**
- 905.** B341, 5 in. Electrostatic Deflection **45.00**
- 906.** B342, 3 in. Electrostatic Deflection **15.00**
- 907.** B343, 5 in. Electrostatic Deflection **48.75**
- 908.** B344, 3 in. Electrostatic Deflection **18.00**
- 909.** B345, 5 in. Electrostatic Deflection **49.00**
- 910.** B346, 3 in. Electrostatic Deflection **21.25**
- 911.** B347, 3 in. Electrostatic Deflection **22.50**
- 912.** B348, 5 in. Electrostatic Deflection **163.40**
- 913.** B349, 1 in. Electrostatic Deflection **5.00**

CLASS OF SERVICE: CLASS A: Audio Amplifier. CLASS B: Class B Modulator or R. F. Amplifier. CLASS C: R. F. Oscillator or Amplifier.

COTO CONTROL WHEEL



A new line of dials and indicators especially suited for use on Amateur transmitters. Combine the many advantages of both pointer and dial in a single attractive professional type control. Will give your equipment that much desired commercial appearance. Wheel is molded black bakelite fitted with aluminum pointer; for 1/2" shaft. Dial is black-finished aluminum with polished aluminum markings. Name plates attach easily with two small pins. 3 1/2" wheel has a pointer radius of 1 1/2"; scale width, 5 1/2" dia. Name plates available as follows: OSCILLATOR; PLATE; PLATE; R.F. AMPLIFIER; MODULATOR; DOUBLER; DOUBLE PLATE; BEFR. DRUM. PLATE; GRID; PLATE; TANK; NEUTRALIZING; P.W.B. AMP; GRID; P.W.B. AMP; PLATE; AMPENNA. Specify name plate desired when ordering complete control.

B2666. 3 1/4" Control Wheel. **\$1.47**

With name plate, NET.

B2666. 3 1/4" Control Wheel Only. **1.18**

With pointer, NET.

B2667. 2 1/4" Control Wheel. **1.18**

With name plate, NET.

B2668. 2 1/4" Control Wheel Only. **.88**

With pointer, NET.

INSULATED GRID CAPS

B633 I. Standard size for receiving tubes. Grid insulation. **6c**

NET EACH

B633 B. Large size for transmitting tubes such as 860, etc. **11c**

RCA TUBE DATA BOOK

B386. Contains valuable technical and operating information on RCA-deForest Amateur Transmitter tubes. NET. **10c**

TECHNICAL SUPPLEMENT

Contains information on three new tubes: RCA 801, 802, 828, 850, 934 and 955. **10c**

B386, NET WITH TUBE PURCHASE

CATHODE RAY TUBE DATA

A complete booklet on the operation of Cathode Ray tubes. Detailed data of real value. **25c**

B387. YOUR PRICE

KNIGHT UNMOUNTED TRANSMITTER CRYSTALS

High quality, inexpensive, unmounted X-cut crystals. Available in quantities, dependent on type of mounting used. Each one of these fine units has only one frequency; no possibility of two or three spurious frequencies as found in many cheap crystals. Newly frequency and closest stock unit will be shipped.

No.	Frequency Kilocycles	NET
B2510.	7090-7300	\$1.95
B2511.	7300-7500	1.95
B2512.	3500-4000	\$1.50
B2513.	1715-2000	\$1.50

Transmitting Equipment



BLILEY MOUNTED CRYSTALS

Cut from the finest raw Brazilian quartz; accepted as standard by Amateurs throughout the entire world. Precision ground in the world's finest crystal laboratory. Frequency calibrations given are arrived at by comparison with a standard which is accurate to two parts in ten million, resulting in a precise, accurately calibrated crystal.

TYPE LD2

A new crystal with many features. Frequency drift is less than 1 cycle per megacycle per degree C.; eliminates need for oven equipment. Calibration is within .05% Specific frequency.

FREQUENCY WITHIN 5 KC.		
No.	Band MC	NET EACH
B2616	7.0	\$4.80
B2616	16	
B2617	1.7	

EXACT FREQUENCY		
No.	Band MC	NET EACH
B2618	7.0	\$5.90
B2619	3.5	
B2620	1.7	
B2620	1.7	

TYPE HF2

Specifically designed for the higher frequency bands. Available in two ranges; for 20 meter operation, and for multiplying into the 10 and 5 meter bands. All crystals are cut to a drift of only .20%/MC/°C; mounted between stainless steel machine-lapped electrodes in a holder of molded Vitron G. Specify frequency.

No.	Frequencies With	EACH
B2521	14.0 to 14.4 MC (5 KC)	\$ 6.80
B2522	14.4 to 15.0 MC (30 KC)	
B2523	14.0 to 14.4 MC (5 KC)	10.00
B2524	14.4 to 15.0 MC (5 KC)	18.00

TYPE BC3

Type BC3. Accurately calibrated X-cut crystal mounted in a molded bakelite holder, having exposed heat-radiating electrode. Plugs into 5 prong tube socket. Calibration is within .05%. Specify frequency when ordering.

STOCK NO.	Frequency Within	Band MC	NET EACH
B2525	± 5 KC	7.0	\$3.95
B2526	± 5 KC	3.5	
B2527	EXACT	7.0	\$4.95
B2528	EXACT	3.5	

TYPE CF1 CRYSTAL FILTER

For crystal filter circuits in Single Signal receivers. Vertical mounting. Sealtite holder; pins fit 5 prong socket. Holder size, 1 1/2 x 1 1/2". Supplied for 450 KC. filters.

B2529. NET **\$5.50**



VARIABLE FREQUENCY UNIT TYPE VF-1

Easily adjusted variable crystal. Can be shifted up to 6 KC at the fundamental 3.5 MC frequency. Drift less than 4 C/MC/°C. Plus-in socket mount.

B2630. Within 5 KC of exact. **\$8.00**

B2631. Exact specified 3.5. **\$10.00**

MC frequency. NET.



BLILEY CRYSTAL HOLDERS

Molded bakelite holders for inch square crystals. Threaded screw top. Plugs into tube socket. Mounts in any position.

B2632. 20-40 meter. **95c**

B2633. 80-160 meter. EACH



JOHNSON X-MITTING SOCKETS

B6140. UX BASE. For other UX base tubes. Fore and aft insulation; heavy spring contacts. List, 85c. **50c**

B6141. 50 WATT base with heavy dual phosphor bronze contact springs. Cadmium plated. List, \$1.25. NET. **73c**

MIDGET STAND-OFF INSULATORS

Small glazed porcelain units. Inexpensive and efficient insulators for multi-stage rigs. Body 1/2" with 10-32 nickel plated brass hardware. **7c**

NET EACH **7c**

B6143. 1 1/2" high. Body 1" with 8-32 nickel plated brass hardware. **5c**

NET EACH **5c**

B6144. 3/4" high. Body 3/8" with 6-32 hardware. A tiny unit. **4c**

NET EACH **4c**



JACK TYPE

An assembly of 2" stand-off insulator and light duty jack. For low-power use. **9c**

NET EACH **9c**

FEE-THRU STAND-OFF INSULATORS

The ideal method of bringing lead-through chassis bases, or through sub-panels. Sturdy insulators of glazed porcelain. Universally accepted for transmitter use.

B6110. 1 1/4" high, 3/8" dia. base. Fits 1/2" hole. **15c**

NET EACH **15c**

B6111. 3/4" high, 3/8" dia. base. Fits 3/8" hole. **12c**

NET EACH **12c**

B6112. 5/8" high, 3/8" dia. base. Fits 5/8" hole. **7c**

NET EACH **7c**

JACK TYPE FEE-THRU

Same units as listed above, but fitted with built-in jack on top. Jack fits standard Q1 plug.

B6113. 1 1/4" high, 3/8" dia. base; fits 1/2" hole. **18c**

NET EACH **18c**

B6114. 3/4" high, 3/8" dia. base; fits 3/8" hole. **15c**

NET EACH **15c**



GR TYPE JACKS & PLUGS

Banana type plugs. Prologs of spring brass.

B6343. METAL JACK. **4c**

B6342. METAL PLUG. **4c**

DOZ. 40c EACH

PLUG INSULATED TYPE JACK **6c**

B6345. RED B6347

B6346. BLACK B6348

100 FOR \$4.90. 55c. EACH



TRANSMITTING COIL FORMS

An ideal insulating form for transmitting and for numerous other uses. Bakelite body, 2 1/2" diameter, 3 1/2" long, with molded fiber core. Winding space, 2 1/2" x 1 1/2" extending 5 1/2" insure low-loss air-core winding. Two styles; plain and grooved. Grooved coil forms are threaded 12 turns per inch.

PLAIN FORMS		GROOVED FORMS	
No.	Prongs	No.	Prongs
B2650	4	B2661	4
B2651	5	B2662	5
B2652	6	B2663	6

NET EACH **44c** NET EACH **59c**



COIL FORMS

Low-loss coil forms of Insullex. Particularly adapted for 20 and 10 meter operation. Threaded for 20 turns per inch with plenty of holes for wire and supports. 20 and 40 meter coil forms 2 1/2" x 2 1/2"; 80 and 160 meter coil forms 4 1/2" x 1/2".

FOR 20 AND 40 METERS

B6696. Less supporting legs. **\$0.59**

B6697. With supporting legs. **.88**

FOR 80 AND 160 METERS

B6698. Less supporting legs. **\$1.18**

B6699. With supporting legs. **1.32**



SOFT-DRAWN COPPER TUBING

For winding your own inductances. Made of seamless soft drawn copper. Annealed. Bonds easily. 1/8" wall. Maximum lengths, 25 feet.

Stock No.	Outside Diam.	NET PER FOOT
B2475	1/8"	4c
B2476	3/16"	5c
B2477	1/4"	6c
B2478	5/16"	8c
B2479	3/8"	9c
B2480	1/2"	13c

CONCENTRIC FEDER CABLE

For feeding any type of transmitting antenna. New flexible cable, completely weatherproofed; with new molded rubber seal at triangle terminals for connecting to either voltage or current-fed antenna system. Dielectric breakdown is 4600 volts; surge impedance, 62 ohms. Will handle up to 1 KW. with coil-antenna overall efficiency.

B2472. 50 FOOT COILS. **\$9.75**

NET **\$12.75**

B2473. 75 FOOT COILS. **\$16.75**

NET **\$16.75**

B2474. 100 FOOT COILS. **\$16.75**

NET **\$16.75**

We can supply above cable in lengths up to 1000 feet. Write for prices.



GUARDIAN RELAYS

MODEL B-100 Especially suitable for use in break-in circuits. P.D.T. type. Will provide rapid switching from receiving to transmitting by means of continuous number of contact switches. Can be used in a number of methods in parallel circuits for CW or for push-to-talk circuits for phone transmitters. Exceptionally heavy magnets and resilient springs for clean high-speed break. Heavy silver contacts. For 110 volt AC.

B7684. NET. **\$4.41**

MODEL K-100 May be used in all types of keying circuits, S.P.S.T. type. Pure silver contacts break clean; positive return spring allows high speed keying without spattering. Coil operates from any 5 to 16 V. A.C. filament winding or from 1 1/2 to 1 V. D.C. source. For 110 volt AC.

B7685. NET. **\$3.23**



TRIOLET THERMO-COUPLE AMMETERS

Designed especially for high frequency work, these instruments are accurate to within 2%. Ideal for use in amateur transmitters or wherever currents of radio frequencies must be measured. External coils will stand 50% overloads and are easily replaceable. Molded bakelite case, range mounting type, 3 1/2" size.

MODEL 341

No.	Amp.	List	NET EACH
B8890	0-1.5	\$10.00	\$6.53
B8891	0-1.5	10.00	
B8892	0-2.5	10.00	
B8893	0-5	10.00	



Transmitting Equipment

SECTIONAL RELAY RACKS

An ingeniously designed rack that fits every transmitter requirement. Starts with base unit and add a section at a time as you build. Made of heavy steel, finished in black crinkle-enamel. Louvers provide ample ventilation. Side sections, front panels, and blank panels are available in standard rack sizes (see the complete listing below). Basic section can be placed on table or tables; then as sections are added, rack may be placed on floor. Will make a sturdy assembly regardless of number of sections used.

B9777, 10" x 14" Base. Heavy cast steel. Size. 30x 20x14 1/2" high. Built holes are provided for floor mounting. Black crinkle-enamel. **\$3.23**

NET

B9778, Top Cover. Inverted tray type. Baked black crinkle finish. Size. 30x20x14 1/2" high. **\$1.91**

NET

SIDES			BACK		
All 14 1/2" long.			All backs 19" long.		
No.	Height	SETOF	No.	Height	EACH
B9779	3 1/2"	\$1.32	B9789	5 1/2"	\$0.59
B9780	5 1/2"	1.47	B9791	5 1/2"	.59
B9781	7"	1.62	B9792	7"	.82
B9782	8 1/2"	1.77	B9793	8 1/2"	.82
B9783	10 1/2"	2.15	B9794	10 1/2"	.97
B9784	12 1/2"	2.59	B9795	12 1/2"	1.12
B9785	14 1/2"	2.73	B9796	14 1/2"	1.32
B9786	17 1/2"	2.94	B9797	17 1/2"	1.47
B9787	19 1/2"	3.23	B9798	19 1/2"	1.62
B9788	21 1/2"	3.38	B9799	21 1/2"	1.76
B9789	21 1/2"	3.53	B9800	21 1/2"	1.94

RELAY RACKS & 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 on standard racks. Standard size to accommodate 19 inch panels with holes spaced 1 1/2". Shipped in knock-down form. Complete with necessary nuts and bolts for mounting. Will make professional-looking Public Address Transmitter or Public Address Installation.

30 1/2" INCH BACK
B12510. Shipped knock-down. Complete with hardware. Weight, 26 lbs. **\$8.95**

NET

7 1/2" INCH BACK
B12511. Shipped knock-down. Complete with hardware. Weight, 40 lbs. **\$10.95**

NET

BLANK PANELS

Black epoxy-finish. Fit standard relay racks. All panels are 19" long.

No.	Height	NET	No.	Height	NET
B9802	1 1/2"	\$0.59	B9807	10 1/2"	\$1.23
B9803	3 1/2"	.65	B9808	12 1/2"	1.44
B9804	5 1/2"	.73	B9809	14 1/2"	1.65
B9805	7"	.79	B9810	15 1/2"	1.88
B9806	8 1/2"	1.03			

CHASSIS FOR RELAY RACKS

These zinc-coated, auto-body steel chassis are designed to fit standard relay racks. Four sizes listed take care of every requirement. Rigidly machined. May be used for receiver chassis bases.

No.	Size	NET
B9812	2 1/2" x 11 1/2" x 3 1/2"	\$0.88
B9813	3 1/2" x 11 1/2" x 3 1/2"	0.97
B9814	5 1/2" x 11 1/2" x 3 1/2"	1.06
B9815	7 1/2" x 11 1/2" x 3 1/2"	1.62

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 rusting of shelves.

No.	Base.	PER PAIR	NET
B9817	5"	PER PAIR	64c
B9818	7"	PER PAIR	65c
B9819	11"	PER PAIR	82c

METER PANELS

Heavy steel, black crystalline lacquer panels. Slotted to fit standard relay racks. 5 1/2" x 19".

No.	No. of Meter Holes	Size	NET
B9820	2	5 1/2" x 19"	\$1.53
B9821	3	5 1/2" x 19"	1.06
B9822	5	5 1/2" x 19"	1.62
B9823	8	5 1/2" x 19"	1.12

SPEED-X TRANSMITTING KEYS

NO. 301 AMATEUR'S KEY

A good standard key, sturdy construction, well-insulated bakelite base. Coin silver contacts. Arm and binding posts chrome plated.

B7961, NET..... \$1.26

NO. 320 HEAVY DUTY KEY

Has 1/2 inch solid coin silver contacts. Well insulated. Black base. All other parts chrome plated.

B7962, List, \$3.25. NET..... \$1.91

NO. 310 STANDARD KEY

Skeleton design. Well constructed. Coin silver contacts. Black base with chrome plated parts.

B7963, List, \$2.50. NET..... \$1.47

NO. 300

Well-made low-cost practice key.

B7960. 88c

NET.....

HI-SPEED AUTOMATIC KEY

NO. 501
A professional key fully adjustable from 8 words per minute to a high as desired. Will hold adjustment at all speeds. Coin silver contacts.

B7964, List, \$17.50. 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.

B7967, List, \$9.25. NET..... \$5.44

SPEED-X BUZZER

A professional constant frequency buzzer. Will hold its adjustment. Resistance 2 ohms. Works on 2 dry cells, or 270.

B7966. NET 73c

THE FAMOUS "MAC-KEY" LINE

DE LUXE MAC-KEY

One of the smoothest operating Semi-Automatic keys on the market. Built by T. R. McKelroy, world's fastest telegrapher. Huge one-piece cast base, beautifully finished in smooth black marble effect. Moving parts are of brass, chromium-plated. 3 1/2" contacts. Large 1/2" adjustment screws. Will help make your signals as smooth and rhythmic as an automatic sending machine.

B7973, NET..... \$9.50

STANDARD MAC-KEY

Heavy cast base anchors key firmly to table. Contact points perfectly alignable. Vibrationless and stutler-proof. Easy to use and non-tiring.

B7968, NET..... \$7.50

MAC STRAIGHT KEY

A well-balanced, sturdily constructed straight key for use in all types of radio wire transmission circuits. Perfectly balanced arm with heavy cast base makes sending easy and tireless. Will not slide around and need no locking to table.

B7969, NET..... \$1.50

MAC OSCILLATOR

An efficient audio oscillator for learning code. Provides pure 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 instructional equipment for learning code. Requires 2-76 tubes. Plug wt., 2 lbs. For 110 V. A.C. or D.C.

B7970, NET..... \$4.50

MAC HUMMER

A simple but entirely efficient mechanical audio oscillator, designed for self-instruction of the Morse and Telegraphic codes. Will produce a 1000 cycle note as clear as a bell. Requires a 4 1/2 volt "C" battery. Will reproduce up to 100 words per minute.

B7971, NET..... \$1.50

MAC PRACTICE SET

A combination of B7969 and B7971 "Straight Key" and mechanical "Hummer" in one convenient base. Excellent for beginners learning the code.

B7972, NET..... \$2.95

CODE PRACTICE SET

A Signal key and adjustable buzzer on wood base. Reproduces high-pitched code signals.

B7965, NET..... \$2.00

UNIVERSAL METAL CABINETS

Sturdy multi-purpose black crystalline-finished cabinets. Will serve many purposes, such as for I.A. amplifiers, transmitters, etc. Properly ventilated. Will take chassis up to 12" x 12".

B9825, SINGLE UNIT. Size, 8 1/2" x 19 1/2". Will take one 8 1/2" x 19" panel. Has door on top only. **\$5.14**

B9826, DOUBLE UNIT. Size, 17 1/2" x 19 1/2". Will take two 8 1/2" x 19" slotted panels. Has doors on top and back. **\$9.12**

B9827, TRIPLE UNIT. Size, 26 1/2" x 19 1/2". Will take three 8 1/2" x 19" slotted panels. Equipped with rear door only. **\$10.20**

B9828, QUADRUPE UNIT. Size, 35 1/2" x 19 1/2". Will take four 8 1/2" x 19" panels. Equipped with rear door only. **\$11.60**

TRANSMITTING CONDENSERS

CONTINENTAL
Compact, high-voltage, non-inductive condensers especially designed for use in Amateur transmitters. Will withstand heavy overloads. Completely was impregnated. All condensers have binding post terminals mounted on highly efficient porcelain stand-off insulators. Equipped with mounting ears.

No.	Mfd. Volts	Size	NET
B7880	1	1000 5x2 1/2"	\$1.23
B7881	2	1000 5x2 1/2"	1.94
B7882	4	1000 5x2 1/2"	2.86
B7883	1	1500 5x2 1/2"	2.17
B7884	2	1500 5x2 1/2"	2.29
B7885	4	1500 5x2 1/2"	2.81
B7886	1	2000 5x2 1/2"	2.06
B7887	2	2000 5x2 1/2"	2.79
B7888	4	2000 5x2 1/2"	4.70

TOBE MICRANOL

These condensers are positively sealed against moisture and are processed in Micranol. Will give long faithful service under hard working conditions. Housed in neat metal cabinets with porcelain insulator support terminals. Have metal ears for easy mounting. Working voltage 2000 D.C.

B8412. \$1.67 **B8413. \$2.45**

1 MFD. 2 MFD.

Transmitting

TRANSFORMERS AND CHOKES

THORDARSON TRANSFORMERS AND CHOKES



A popular Amateur line offering a complete variety of transformer equipment for dependable power supplies. Heavily constructed; conservatively rated for assured long-lived performance. Types listed below are for 110-115 Volts, 50-60 cycle, 25 cycle, 10 volt primaries are available at 60% net additional. 220 volt, 50-60 cycle primaries can be had at 30% extra.



Filament		PLATE TRANSFORMERS					Plate
Cat. No.	Type	AC Volts	DC Volts	MA	Size	NET	
B11155	T62P80	1450 C.T.	525	150	6 1/4 x 4 1/2 x 4 1/2	\$ 4.56	
B11157	T70P41	1450 C.T.	525	250	6 1/4 x 4 1/2 x 5	5.29	
B11158	T64P48	1600 C.T.	680	150	6 1/4 x 4 1/2 x 3 1/2	3.97	
B11159	T71P27	1600 C.T.	690	250	3 1/2 x 4 1/2 x 5 1/2	5.68	
B11160	T64P12	1900 C.T.	150	350	8 x 6 1/2 x 6 1/2	9.78	
B11161	T62P82	2670 C.T.	1000	500	11 x 6 1/2 x 6 1/2	14.82	
B11162	T64P11	3200 & 1250 or 2580 C.T.	1000	280	8 x 6 1/2 x 7 1/2	12.35	
B11163	*T62P83	2580 C.T.	1000	250	11 x 6 1/2 x 6 1/2	18.82	
B11164	*T62P84	4840 C.T.	2000	500	11 x 6 1/2 x 8 1/2	29.40	
B11165	*T62P85	7260 C.T.	3000	380	11 x 6 1/2 x 10	35.28	
B11166	T54P89	2540 C.T.	1000	400	8 x 6 1/2 x 6 1/2	10.48	
B11167	T62P87	1900 C.T.	625	200	5 1/2 x 4 1/2 x 3 1/2	5.28	
B11168	T63P03	930 C.T.	400	150	5 x 3 1/2 x 4 1/2	3.23	
B11169	T84P60	1030 C.T.	400+	250	5 x 4 1/2 x 3 1/2	4.56	

* Primary has 220 V. tap which may be used on 110 V. to reduce secondary voltage 50%.

† Has bias tap at 30 volts for 6L6 tubes.

FILAMENT TRANSFORMERS

Cat. No.	Type	Secondary Volts	Ampr.	Insulation	Size	NET
B11183	T64F35	7.5 at 6.5	1600	3 1/2 x 3 1/2 x 4	1.65	
B11184	T64F13	7.5 at 2.5	1600	2 1/2 x 3 1/2 x 4	2.34	
B11185	T64F14	10.0 at 8.0	1600	3 1/2 x 3 1/2 x 4	4.41	
B11186	T64F15	11.0 at 10.0	1600	3 1/2 x 3 1/2 x 4	4.41	
B11187	T64F33	2.5 at 10.0	7500	3 1/2 x 3 1/2 x 4	2.65	
B11188	T70F46	5.0 at 3.0	5000	3 1/2 x 4	4.56	
B11189	T74F23	5.25 at 12.0 (Elmac 100T)	1600	3 1/2 x 3 1/2 x 4	2.94	
B11190	T74F24	5.25 at 20.0 (Elmac 250T)	1600	3 1/2 x 3 1/2 x 4 1/2	4.12	
B11191	T61F85	5.5 at 2.5 or 5.0 at 2.5 or 2.5 at 2.5	1600	2 x 2 1/2 x 2 1/2	1.18	
B11192	T54F89	2.5 at 2.0	110	2 x 2 x 2 1/2	1.00	
B11193	T64F35	7.5 at 6.5	1600	3 1/2 x 3 1/2 x 4	1.47	
B11194	T63F99	5.0 at 4.0	1600	2 1/2 x 3 x 3 1/2	1.91	
B11195	T64F17	7.5 at 6.5 7.5 at 4.5 7.5 at 4.0	1600	3 1/2 x 4 1/2 x 4 1/2	5.29	
B11196	T60F94	5.0 at 6.5 2.5 at 14.0 2.5 at 10.0	1600	3 1/2 x 3 1/2 x 4 1/2	1.53	
B11197	T54F66	7.5 at 2.5 7.5 at 2.5	1600	2 1/2 x 3 x 3 1/2	1.91	

SWINGING CHOKES

Cat. No.	Type	Henries	MA	Ohms	Size	NET
B11198	T64C05	10-30	150-20	200	3 1/2 x 3 1/2 x 4 1/2	\$2.50
B11199	T63C10	12-36	280-0	156	4 x 4 x 6 1/2	5.00
B11200	T63C16	8-17	500-0	70	5 x 5 1/2 x 6 1/2	4.23
B11201	T64C06	10-19	380-0	93	4 1/2 x 5 x 6 1/2	7.06
B11208	T72C16	8-22	650-0	55	6 1/2 x 6 1/2 x 7 1/2	9.41

FILTER CHOKES

Cat. No.	Type	Henries	MA	Ohms	Size	NET
B11201	T64C09	19.7	150	27.5	3 1/2 x 4 x 4 1/2	\$3.23
B11202	T64C08	23.6	250	190	4 1/2 x 4 1/2 x 6 1/2	5.88
B11203	T64C11	12.9	250	110	4 1/2 x 6 1/2 x 7 1/2	10.00
B11204	T64C50	12.9	250	121	3 x 3 1/2 x 4 1/2	2.34
B11205	T53C19	7.2	120	290	2 x 2 x 2 1/2	.88

New Plate Modulation Transformer

Cat. No.	Type	Modulator Tubes	To Modulate	Sec. Imp.	Sec. MA	Max. Watts	NET
B11103	T84N70	2-6L6 Class AB	.....	2500	250	10.00	
		3-5T Class B	.....	2000	200	10.00	
		4-2T Class B	.....	7500	150	75	\$5.88

Have double secondaries for simultaneous modulation of plate and screen or R. F. Pentodes. Will allow complete modulation at high level.

Cat. No.	Type	Class AB	2-802	500 P. Imp.	40	40	\$12.23
B11165	T79M94	2-42 or 2A3	500 P. Imp.	40 <td>40 <td>\$12.23</td> </td>	40 <td>\$12.23</td>	\$12.23

New Grid Modulation Transformers

Cat. No.	Type	Class AB	5400	.....	10	\$2.06	
B11169	T67M73	1-45 or 50	.....	5400	.....	10	\$2.06
B11170	T67M74	2-45 or 2A3	.....	5000	.....	20	2.65

THORDARSON TRANSMITTER MANUAL

B11206. A 32-page book, completely revised, and crammed full of information on all types of amateur transmitters. Contains schematic diagrams, parts lists, modulation table, coil data, power supply circuits and data, etc. As a reference book it will be a useful asset to any Amateur Station.

9c

NEW THORDARSON C.H.T. SERIES



An entirely new line incorporating the latest features of transformer design. These units will give continuous service at full ratings. All types are furnished in matching streamlined cases. Easy mounting with sub-panel connections. Completely laminated. Plate transformers will give from 4 to 8 different secondary voltages; have 115 or 220 volt primaries. Ideal for many types of transmitter and amplifier circuits.



MULTI-VOLT PLATE TRANSFORMERS

No.	Type	D.C. Volts	Current	List	NET
B11813	T15P12	650 or 500	200 M.A.	\$15.00	\$ 8.82
B11814	T15P14	1000 or 750	300 M.A.	22.50	13.23

MULTI-VOLT POWER TRANSFORMERS

No.	Type	A.C. Volts	Current	List	NET
B11815	T15R00*	1000 C.T. 7.5 tap at 6.3 C.T. 5.0 3 A.	150 M.A.	.....	.....
B11816	T15R01*	1000 C.T. 6.3 C.T. 6 A.	400 M.A.	\$10.50	\$6.17
		6 A.	.....	.....	.....
		6 A.	.....	15.00	8.82

*Bottom Lugs for Sub-Panel Wiring.

MULTI-VOLT FILAMENT TRANSFORMERS

No.	Type	Secondary Volts	Ampr.	Insulation	List	NET
B11817	T11F30	7.5 tap at 6.3, 5.0 and 2.5 C.T.	6.5	1600	\$8.00	\$3.51
B11818	T11F51	10.0 tap at 7.5 and 6.2 C.T.	8.0	1600	65.00	3.82

C. H. T. INPUT CHOKES

No.	Type	Henries	M.A.	Insulation	Ohms	NET
B11819	T15C36	5-25	200-20	4000	105	\$3.55
B11820	T15C37	5-25	300-30	4000	90	\$ 2.29

C. H. T. SMOOTHING CHOKES

No.	Type	Henries	M.A.	Insulation	Ohms	NET
B11821	T15C43	12	200	4000	105	\$3.52
B11822	T15C46	12	300	4000	90	\$ 2.29

MULTI-MATCH MODULATION TRANSFORMERS

Finest quality modulation transformers with many advanced features. Plug-in terminal board permits instant matching of any driver-modulator tube combination. Streamline cases. Complete instructions included; easy to mount.

Cat. No.	Type	Cap. Watts	Pri. M.A. Per Side	Sec. M.A. Ser. Par.	List	NET
B11823	T11M74	40	100	80 160	\$ 8.00	\$4.78
B11824	T11M75	75	145	145 290	12.50	7.35

MULTI-MATCH DRIVER TRANSFORMERS

Cat. No.	Type	Cap. Watts	Pri. M.A. Per Side	Ratio Pri. to 1/2 Sec.	List	NET
B11825	T15D78	15	60	1:1, 1.2:1, 1.4:1, 1.6:1, 1.8:1	\$8.25	\$4.85
B11826	T15D77	15	60	2:1, 2.4:1, 2.8:1, 2.6:1 & 2.8:1	8.25	4.85

THORDARSON AMATEUR SPECIALS



A complete new line of high quality transformer components. Designed for intermittent use in amateur communication work. These transformers were especially designed by Thordarson to meet the needs and budget of the average amateur. They embody such features as: complete shielding; tapped primaries; high tension porcelain terminals; complete self-cooled construction.



PLATE TRANSFORMERS

Cat. No.	Type	650 or 300 D.C. volts @ 300 M.A.	.....	\$ 3.88
B11827	T16P00	.....	.....	.....
B11828	T16P01	1250 or 1000 D.C. volts @ 300 M.A.	.....	7.64
B11829	T16P02	1250 or 1000 D.C. volts @ 500 M.A.	.....	12.35
B11830	T16P03	1500 or 1150 D.C. volts @ 300 M.A.	.....	11.17
B11831	T16P04	2500 or 2000 D.C. volts @ 300 M.A.	.....	15.67

FILAMENT TRANSFORMERS

Cat. No.	Type	5 V. C.T. @ 5.25 A. <th>2000 Volt Ins. <th>\$0.88</th> </th>	2000 Volt Ins. <th>\$0.88</th>	\$0.88
B11832	T16F08	.....	.....	.....
B11833	T16F09	2.5 V. C.T. @ 10 A.	2000 Volt Ins.	1.03
B11834	T16F10	2.5 V. C.T. @ 10 A.	1500 Volt Ins.	1.62
B11835	T16F11	2.5 V. C.T. @ 4 A.	2000 Volt Ins.	2.18
B11836	T16F12	5.25 V. C.T. @ 13 A.	2000 Volt Ins.	2.06
B11837	T16F13	6.3 V. C.T. @ 3 A.	2000 Volt Ins.	1.03
B11838	T16F14	7.5 V. C.T. @ 8 A.	2000 Volt Ins.	1.18
B11839	T16F15	7.5 V. C.T. @ 8 A.	2000 Volt Ins.	1.91
B11840	T16F16	10.0 V. C.T. @ 4 A.	2000 Volt Ins.	1.78
B11841	T16F16	10.0 V. C.T. @ 8 A.	2000 Volt Ins.	2.36

INPUT CHOKES

Cat. No.	Type	3-20 H. 200 M.A. 2000 V. Insulation	.....	\$2.20
B11832	T16C20	.....	.....	.....
B11833	T16C22	5-20 H. 500 M.A. 2000 V. Insulation	.....	5.29

SMOOTHING CHOKES

Cat. No.	Type	12 H. 200 M.A. 2000 V. Insulation	.....	\$2.20
B11835	T16C25	.....	.....	.....
B11836	T16C26	12 H. 300 M.A. 2000 V. Insulation	.....	2.94
B11837	T16C27	12 H. 500 M.A. 2000 V. Insulation	.....	5.29

128 OUR PRICES ARE ALWAYS LOWER—WE WILL NOT BE UNDERSOLD

Transmitting

TRANSFORMERS AND CONDENSERS



UTAH TRANSMITTER COMPONENTS

A quality line of transmitter power supply components. Utah transformers and chokes are wired right, to give every budget-minded Amateur a chance to get top-quality at a price within his means. Carefully designed to give the greatest possible efficiency and service; built to last even under the grueling service of continuous operation at full load. Every detail of construction has been planned to give greater volume, compact size, ease of mounting, and long trouble-free life. Current ratings, voltage breakdown of insulation, etc., are conservative. Only highest quality materials are used throughout.

PLATE TRANSFORMERS

No.	Type	AC Volts	DC Volts	M.A.	NET
B11850	1800	550-0-550	400	200	\$4.41
B11851	1800	575-0-575	500	250	4.50
B11852	1802	485-0-485	375	175	3.63
B11853	1803	750-0-750	580	200	3.29

SWINGING CHOKES

No.	Type	Henries	M.A.	Ohms	NET
B11854	4500	8-40	150	190	\$2.50
B11855	4501	8-30	200	125	3.65
B11856	4502	8-30	250	125	3.53

FILTER CHOKES

No.	Type	Henries	M.A.	Ohms	NET
B11857	4509	15	150	190	\$2.50
B11858	4510	10	200	125	3.53
B11859	4511	12	250	125	3.53

FILAMENT TRANSFORMERS

Cat. No.	I. Type	Secondary		Insulation	NET
		Volts	Amps.		
B11860	1826	5	3-C.T.	2500 V.	\$1.91
B11861	1831	5	12-C.T.	2500 V.	2.94
B11862	1828	6.3	3-C.T.	2500 V.	2.20
B11863	1823	5	3-C.T.	2500 V.	3.23
B11864	2301	6.3	3-C.T.	2500 V.	3.23

We can supply all units made by Utah. Write for prices.



KENYON SPECIALS

Especially designed by Kenyon engineers to provide quality power supply units at prices that every Amateur can afford. Every unit is built to stand up under long, hard use; ratings are accurate and dependable. No "fills"; just real quality at low cost.

B11868. POWER TRANSFORMER. 1500-2000-2500 V. A.C. each side C.T. at 200 M.A. D.C. NET..... **\$10.78**

B11869. SWINGING CHOKES. Inductance swing 5-25 henries at 200 M.A. D.C. NET..... **\$2.84**

B11870. SMOOTHING CHOKES. Inductance 20 henries at 200 M.A. D.C. NET..... **\$2.84**

We can also supply any unit in the entire Kenyon line. Write for prices or order with deposit.

NEW KNIGHT OIL-IMPREGNATED TRANSMITTING CONDENSERS

These hermetically sealed, oil-impregnated filter condensers are a real "must" for any Amateur. No effort has been spared to include every detail of advanced design, quality materials, and careful assembly. Each condenser is slazed porcelain stand-off insulation, heavy mounting feet. May be mounted in any position.

1000 Volt			2000 Volt			3000 Volt		
No.	Mfd.	NET	No.	Mfd.	NET	No.	Mfd.	NET
B7988	1	\$1.10	B7994	1	\$1.75			
B7989	2	1.50	B7995	2	2.45			
B7990	4	1.95	B7996	4	4.65			
B7991	1	1.45	B7997	1	2.50			
B7992	2	2.00	B7998	2	4.95			
B7993	4	3.25						

SPECIAL 4 MFD. 1000 VOLT PAPER CONDENSER

A popular size for use in transmitting power supplies. Working voltage, 1000 V. D.C.; 2000 V. A.C. In metal case. 4 1/2 x 1 1/2 x 3/4". Heavy insulated flexible leads. Will give long, dependable service. Wt., 5 lbs.

B7899. YOUR NET PRICE. \$1.95

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, in coupling condensers, etc. Bakelite cases; linear mica dielectric. Accurate to within 10%. With machine screw terminals.

1000 V. DC TEST		2500 V. DC TEST	
No.	Mfd.	No.	Mfd.
B7650	.00005	B7672	.00015
B7651	.0001	B7673	.0001
B7652	.00015	B7674	.0002
B7653	.0002	B7675	.00025
B7653	.00025	B7676	.0005
B7656	.0005	B7677	.001
B7658	.001	B7678	.0015
B7659	.0015	B7679	.002
B7660	.002	B7680	.0025
B7661	.0025	B7681	.005
B7662	.003	B7682	.01
B7662	.004	B7683	.01
B7663	.005		
B7663	.006		
B7665	.008		
B7667	.01		
B7668	.015		
B7669	.02		
B7669	.025		
B7655	.03		
B7655	.03		
B7671	.05		
B7670	Resistor class.		
	Mfd. 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.

THORDARSON HIGH POWER TRANSFORMER

Ideally suited for use in low-power Amateur transmitters. Primary, 110 V. 50/60 cycle secondary: 1200 V. at 200 M.A.-C.T.; 7.5 V. at 3A.-C.T.; 5 V. at 3A.-C.T.; 2.5 V. at 10 A.-C.T.; fully shielded; lug terminals on all secondary windings. Insulated leads on primary. Shpg. wt., 12 lbs. **\$2.45**

KNIGHT PLATE TRANSFORMERS

B11006. High quality, moderately priced plate transformer for medium and low-power transmitters. Fully enclosed in cast case with stand-off insulator type terminals. Secondary, 1000-750-0-750-1000 Volts at 300 M.A. Primary, 110 V. 50/60 cycles. Sturdy construction; well-insulated. An exceptional value. Shpg. wt., 22 lbs. **\$7.95**

B11007. A sturdy transformer that will fill many requirements of Amateur transmitters. Secondary, 750-0-750 Volts at 300 M.A. Universal mounting. Primary, 110 V. 50/60 cycle. Shpg. wt., 8 lbs. NET..... **\$2.75**

B11008. A rugged, unexcused transformer built for real service in "Ham" rigs. Pri. 110 V. 50/60 cycle; sec. 1000-750-0-750-1000 V. at 300 M.A. Universal mounting. 110 V. 50/60 cycle. Shpg. wt., 15 lbs. NET..... **\$6.20**

KNIGHT FILTER CHOKES

B11009. Swinging Choke. Especially designed for input chokes of transmitter or modulator power supplies. Capacity 1000 M.A.; inductance 8-30 henries. Fully cased; insulated wire leads. A real value in a high-quality unit. Size 3 1/2" x 4 1/2"; weight 6 lbs.

KNIGHT FILAMENT TRANSFORMERS

B11011. 25 Volts at 10 Amps. For 2-865's or for several 2.5 Volt tubes. Insulation 5000 volts. 2 1/2" x 2 1/2" x 3". Weight 2 1/2 lbs. NET..... **\$1.35**

B11010. Smoothing Choke. For use as second choke in all medium or low-voltage power packs. Inductance 20 henries at 200 M.A.; 70 ohm D.C. resistance. Shielded type, insulated wire leads. Size 3 1/2" x 4 1/2". An efficient filter choke of highest quality at an exceptionally low price. NET EACH..... **\$2.10**

B11012. 7.5 Volts at 4 Amps. and 2.5 Volts at 5 Amps. Ideal for use in low-power multi-stage rigs or speech-amplifier modulators. 5000 volt. Weight 3 1/2 lbs. NET..... **\$1.55**

B11013. 6.3 Volts at 4 Amps. Designed for the new 6L6 Beam Power Tubes, and for multi-tube receivers or transmitters. 2 1/2" x 3 1/2" x 3". Wt. 2 1/2 lbs. NET..... **\$1.30**

GENERAL ELECTRIC PYRANOL TRANSMITTING 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-inflammatory, non-explosive substance of unusual dielectric qualities. Hermetically sealed, with porcelain lead-out bushings. Equipped with mounting lugs for easy rigid mounting.

No.	Model	Mfd.	Volts	NET
B5400	PCESA21	1	600	\$1.61
B5401	PCESA22	2	600	2.06
B5402	PCESA23	4	600	2.85
B5403	PCESA27	1	1000	1.76
B5404	PCESA28	2	1000	2.66
B5405	PCESA23	4	1000	4.12
B5406	PCESA40	1	1500	2.20
B5407	PCESA41	2	1500	3.67
B5408	PCESA43	4	1500	5.29
B5409	PCESA56	1	2000	3.09
B5410	PCESA51	2	2000	4.70
B5411	PCESA53	4	2000	6.46
B5412	PCESA50	1	2500	8.24
B5413	PCESA50	2	2500	10.00
B5414	PCESA61	4	2500	14.70

G. E. Pyranol Transmitting Capacitors are available in voltage ratings up to 5000 volts D.C. Write for complete listing.

TRANSCEIVERS, SHOWN IN KITS

POPULAR BROWNING 35 ALL-WAVE RADIO KIT



An easy-to-build All-Wave Kit for discriminating N.W. fans. Includes the completely assembled, wired and tested Tube tuning unit. Tunes 13.3 to 550 meters continuously in 3 full bands with no skips. Sensitivity and selectivity are extremely high. Has 40 to 1 ratio micro-vernier dial calibrated in megacycles; with accurate scale for vernier calibration. Unexcelled selectivity on all bands. Uses 1-247, 1-249, 1-2A5, 1-56, 2-58, and 1-80 tubes. Send for FREE CIRCULAR showing parts list and wiring diagram.

COMPLETE BROWNING 35 KIT

Contains all necessary parts for the complete receiver except tubes, speaker, and cabinet. Includes: drilled and finished chassis and panel, complete Tube tuning unit, I.F. transformers, condensers, resistors, wiring diagrams, detailed instruction book, etc. Nothing else to buy except tubes and speaker.

B1010. YOUR PRICE..... \$3.90
B1011. Browning Kit as above, but metal tube model. Requires 1-6AS, 2-6KT, 1-6CS, 1-6FS, 1-6H18, 1-6PF and 1-80 tubes. NET..... \$41.65

TOBE 35 TUNER UNIT

Completely assembled, wired, tested and aligned All-Wave tuner unit: two rotor bakelite dial, dial caps, pointers, es-cutechone, dial light, bracket, grommets, etc.

B10102. YOUR PRICE..... \$18.60

BASIC UNIT KIT

Contains drilled and finished chassis and panels, 2-1-F transformers, Beat Oscillator, power transformer, 5 coil-wiring diagrams and in-struction book with detailed construction data.

B10103. YOUR PRICE..... \$11.60
B10104. Wright-De Coster 10" Dynamic speaker..... \$4.10
B10105. Black Damaskene Metal Cabinet. 17"x29"x11 1/2"..... \$4.80

TOBE AMATEUR RECEIVER KIT

Designed exclusively for Amateur Band operation and for adjacent channels. Based on, and very similar to, the Browning 35. All critical cir-cuits air-trimmed for extreme stability. Features exceptionally wide band-width on the Amateur 160, 90, 40 and 20 meter bands; fractional micro-volt sensitivity; extreme selectivity; I.F. gain control; AVC (on or off); variable tuning control; adjustable high Beat Oscillator; stand-by switch, and many other outstanding features. Kit contains all parts necessary with exception of tubes, speaker and cabinet, with constructional data, wiring diagrams, and I.F. REQUEST..... \$47.40

MEISSNER COMMUNICATIONS KIT

14 TUBE SUPER

- 5 Wave Bands—1.1 to 555 Meter Coverage
- Accurately Balanced and Aligned Tuning Assembly
- Calibrated Bakelite Dial, with Micromaster Band Spread

A powerful 14 tube "Communi-cations" receiver kit. Especially de-signed for Amateurs and set builders who want superior results over all the bands. Starts at 5 meters and includes all the Amateur and broadcast bands. Some of its fea-tures are: typical Filter-Beat Fre-quency Oscillator with cut-out switch and pitch control—Noise Silencer Circuit—Variable Electrical Band Spread—Amplified A.V.C.—Variable Sensitivity Control—Iron Core I.F. Transformers—Audio Volume Control—P. P. Beam Power Output Tubes, etc. The completely wired and ac-curately balanced and aligned tuning assembly includes the Meissner Multi-Wave roll-assembled, hand change switch, variable gang condenser, tube sockets (for tuning unit) and calibrated 6" bakelite dial with "Micromaster" mechanical bandspread. Set builders will find this an ideal set to install in their customers' expensive consoles. Uses 14 metal tubes: 3-6KT, 2-6L7, 2-6L7, 1-6H7, 1-6CS, 2-6H6, 2-6L6, 1-5Z3.

COMPLETE KIT OF PARTS

Includes punched and drilled black crackle-plated chassis base, all necessary condensers, resistors, switches, sockets, fuses, transformers and hardware. The only tools you need are a screw-driver, soldering iron and a pair of side-cutting pliers. Furnished with complete set of diagrams and detailed instructions. Less only tubes and speaker.

B10107. YOUR NET PRICE..... \$59.85

COMPLETE ESSENTIAL TUNING KIT

Includes completely wired and aligned tuning unit; hand switch; Calibrated 8" dial; Noise silencer I.F. coils; Beat-frequency Osc. coil; 4 pair of side-cutting pliers. Includes 6" iron-core I.F. output and band extension coils; 6 I.F. chokes; instruction sheets and diagrams.

B10108. YOUR NET PRICE..... \$31.46

B10109. Punched and drilled black crackle-plated chassis base, 12"x18"x3"..... NET..... \$3.23

KNIGHT 12 INCH DYNAMIC SPEAKER

A 12" Knight speaker especially selected to work with above set. Will easily handle the output of the 1" P. P. 616's. Equipped with 1250 ohm 3/4" coil, output transformer, cord and plug.

B10114. YOUR NET PRICE..... \$4.55

KNIGHT 5 METER TRANSCEIVER

TWO-WAY 56-60 MC AMATEUR PHONE KIT

Popular Amateur 5 Meter Transceiver designed by Frank C. Jones. Easy to build and operate. Ideal for local "horizon-range" communication and for experimental field work. Uses single 19 tube as push-out unit—crystalized, grid modulated oscillator. For reception, the same tube acts as push-pull super-regenerative detector. Simple 1/2 or 3/4 wave rod may be used for antenna. Kit contains all necessary parts for building chassis model shown. Ar-rearories listed below. Diagram and parts list may be had for 5c or return handling.

B9956. NET..... \$5.58



TUBE AND BATTERIES

Consists of 1-Bur-thon 19 tube, 2-Har-thon 208 power kit, 2 "B's" and 2 Knight dry cells.

B9966. NET..... \$3.27

PORTABLE CASE

Durable, leatherette covered split case for Knight 5 meter kit. Bottom holds batteries; transceiver in top.

B9997. NET..... \$3.75

UNIVERSAL HANDSET

New Universal 5 meter handset. Compact and lightweight. Il-lustrated and described at other job.

B2513. NET..... \$5.88

KNIGHT VOLUME EXPANDER KIT

A sensational new device for giving back to your loudspeaker all the fine points of music originally broadcast by the orchestra at the studio. True reproduction can be realized and depth can be recreated because the volume ex-pander serves to further amplify fortissimo passages and make the pianissimos softer. Easily attached to any radio set or amplifier. The degree of expansion is controllable. Com-plete kit includes all necessary components for building. Uses 1-6L7, 2-7G's and 1-80 tubes (not supplied).

B9892. Complete kit, less tubes..... \$7.95

YOUR PRICE.....



COMPLETELY WIRED VOLUME EXPANDER

B9893. Completely wired, assembled and tested Knight Volume Ex-pander. 208 power kit included in our standard price.

For 110 volts, 60 cycles, A.C. Less tubes. NET..... \$9.95

MEISSNER "CUSTOM" ALL-WAVE

12 TUBE KIT

- 5 Wave Bands—7.5 to 2140 Meter Coverage
- Completely Wired—Balanced and Aligned Tuning Unit
- 12 New Metal Tubes with New 6L6 "Beam" Power Audio Amplifier Output Tubes

An ideal set for the custom-builder and experimenter. Has con-tinuous tuning range from 7.5 to 2140 meters in 5 bands. Some of the features are: completely wired and accurately balanced and aligned tuning unit; accurately calibrated 8" two-speed oval dial; iron-core I.F. transformers; A.V.C.; mechanical hand-spread type variable gang condenser. Uses 12 tubes: 2-6KT, 2-6L7, 2-6L7, 1-6H7, 1-6CS, 1-6H6, 2-6L6, and 1-5Z3.

COMPLETE KIT OF PARTS

Includes punched and drilled chassis base, all necessary condensers, resistors, switches, fuses, transformers and hardware. You need only screw-driver, soldering iron, and side-cutting pliers to completely assemble this kit. Complete with diagrams and instructions.

Less tubes and speaker..... \$45.75

B10110. YOUR NET PRICE ONLY.....

COMPLETE ESSENTIAL TUNING KIT

Kit consists of completely wired and aligned tuning unit; wave-change switch; variable condenser; tube sockets for tuning circuit; calibrated 8" two-speed hand-spread type oval dial; noise silencer I.F.; B.F.O. trans-formers; and speaker. Includes I.F. and output I.F. transformers; I.F. chokes; diagrams and instructions.

B10111. YOUR NET PRICE..... \$27.93

B10112. Punched and drilled, black crackle chassis base, Size 17"x10"x3"..... NET..... \$2.65

KNIGHT 12-INCH DYNAMIC SPEAKER

A high quality Knight speaker especially selected to work with above set. Capable of handling the output of "Beam" power 6L6 tubes with high fidelity. With output transformer, cord, and plug.

B10114. YOUR NET PRICE..... \$4.55

MEISSNER "BUILD-YOUR-OWN" BOOK

B5781. Contains 114 pages check-full of interesting kits to assemble. Has complete information on Phono-Oscillators, Noise Silencers, 4 to 14 Tube sets, standard Broadcast or S.W. sets, etc. A book that should be in every experimenter's and custom-builder's library.

NET..... \$0c

Quality RECEIVER KITS

'POPULAR MECHANICS' BUILD-YOUR-OWN KITS



HURRICANE RECEIVER

No. R-334
A dandy portable receiver that will bring in broadcast stations as far as 500 miles away. Requires no "40" batteries—uses only two midsize 3 volt "A" batteries or 1-6 Volt battery. Uses 2 of the new metal tubes, 6J7 and 6F6, in a highly efficient circuit. Supplied in kit form, completely assembled and punched and drilled 5"x5" chassis base, and all necessary parts and instructions for assembling. Less tubes, headphones and batteries.

B965. NET.....\$4.45

1937 LITTLE GIANT 4 TUBE AC-DC KIT



"Popular Mechanics" new dual-wave broadcast and police band set. Travels men, students, etc., will find this the most complete and inexpensive to build and will operate from any 110 volt AC or DC supply. Kit includes all necessary parts, speaker, easy-to-follow blueprints, and complete instructions for construction of the improved Little Giant Receiver; less only tubes and cabinet.

B9866. NET.....\$8.60

KNIGHT CRYSTAL SET KIT



A new and modern crystal set. Only the best quality parts are used, assuring you of unusually fine reception of local broadcast stations. Complete with all parts and simplified color-coded point-to-point wiring instructions.

B9867. NET.....\$1.35
B2806. Headset, NET.....97c
B3485. Aerial Kit. You will obtain the best results with this aerial. NET.....37c

5 METER TELESCOPING TRANSCIEVER ANTENNAS

Vertical tube antennas for ultra H.F. use. Telescoping sections of hard aluminum tubing, lock to hold adjustment. For mobile and portable use.
B9183. 1/4 wave 4 section. Less base. For direct mounting. Extends to 52". NET.....\$1.18
B9184. 1/4 wave 3 section. With base. Length closed, 18"; extends to 52". NET.....94c
B9185. 1/2 wave 3 section. Less base. Binding post mounting. Extends to 102". NET.....\$1.12
B9186. 1/2 wave 3 section. With insulator base. Length closed, extends to 102". NET.....\$1.32

KNIGHT LOW-COST POWER PACKS



MODEL XPC
B9190. For Short Wave receivers or small transmitters using 2-45 tubes. Delivers 200 volts pure D.C. at 65 M.A. tapped at 180, 90 and 22 1/2 Volts. Also supplies 2 1/2 Volts C.T. at 3 amps. for filaments. Requires type 80 tubes. For 115 volt. 60 cycle. C. C.
B9187. Same as above, except has filament winding for 6.3 volt tubes, at 1.5 amps.
YOUR PRICE, EACH.....\$5.25

MODEL XC
B9191. An ideal power supply for low-power transmitters or for crystal or buffer stages. Delivers 300 Volts pure D.C., untapped, at 65 M.A., and 2 1/2 Volts A.C. center-tapped at 4 amps. for filaments. Built on steel chassis. For 115 Volts, 60 cycles, requires type 80 tube.
B9188. Same as above, except has filament winding for 6.3 volt tubes, at 1.5 amp.
YOUR PRICE, EACH.....\$4.25

NOISE SILENCER KIT

No longer need your reception be disturbed by static, motor noise or other forms of interference. This new kit will effectively eliminate noises of practically every type. Designed to work with any short wave or all-wave superhet having 465 or 485 K.C. I.F.'s, this noise silencer incorporates an extra I.F. stage. Supplied complete with all necessary parts, instructions and 1-6116, 1-6J7, 1-6K7, and 1-6L7 RCA metal tubes. Black crinkle-finished base measures 5 1/2"x4 1/2"x3 1/4", and has all holes cut and drilled.



B9869. DE LUXE MODEL KIT. NET.....\$7.92
B9870. Completely wired, assembled and tested De Luxe Noise Silencer. NET.....\$10.15

STANDARD MODEL KIT

B9871. Same as the De Luxe kit but without the extra I.F. stage, designed for use with sets having two or more I.F. stages. Kit includes: 1-6H6, 1-6J7, and 1-6L7 RCA metal tubes and full instructions. For sets with 456-465 KC I.F. NET.....\$6.10

B9872. Completely wired. The Standard Kit, wired, tested, and ready to install. NET.....\$8.10

CATHODE RAY TUNING UNIT

An inexpensive visual tuning indicator for using the new Electron-Ray tube. Quickly and easily installed in any Broadcast All-Wave or Short Wave set having A.V.C. but which is not equipped with visual tuning device. Requires 6.3 or 2.5 volts for filament. Complete assembly with mounting bracket, color-coded cable and instructions, less tube.



B1987. NET.....73c
B481. Raytheon 6E5 Cathode Ray tube. For receivers using 6.3 volt tubes. NET.....78c

B490. Raytheon 2E5 Cathode Ray tube. For receivers using 2.5 volt tubes. NET.....78c

WORLD TIME CHART AND SHORTWAVE STATION LIST

Indicates time in 122 countries instantly. Lists 111 Short Wave stations. Valuable for the amateur and SW listener.
B2325. NET.....10c



WIRING DIAGRAMS

'BUILD-YOUR-OWN' KITS

Clear, easy-to-read diagrams with complete parts lists. Enable you to "build-your-own" using latest type tubes and modern efficient circuits. Carefully designed and reproducible of "factory-built" performance.



- B1758. 2 TUBE DX'ER SHORT WAVE BATTERY SET.**
- B1759. 2 METAL TUBE DX'ER. FOR BATTERIES OR A.C.**
- B1760. 4 TUBE A.C. BROADCAST TRF.**
- B1761. 4 TUBE A.C.-D.C. BROADCAST TRF.**
- B1762. 4 METAL TUBE "SUPER-GAINER."**
- B1763. 5 TUBE A.C. BROADCAST SUPER.**
- B1764. 5 TUBE SKIP-BAND A.C. SUPER.**
- B1765. 5 TUBE A.C. BROADCAST TRF.**
- B1766. 6 TUBE BROADCAST BATTERY SUPER.**
- B1767. 7 TUBE ALL-WAVE A.C. SUPER.**
- B1768. KNIGHT'S METER TRANSCIEVER.**
- B1769. VOLUME EXPANDER FOR RADIO OR P.A. AMPLIFIER.**
- B1770. KNIGHT CRYSTAL SET.**
- B1771. 12 WATT UTILITY AMPLIFIER AND POWER SUPPLY.**
- B1772. 5 TUBE 2 BAND (POLICE & B.C.) A.C.-D.C. TRF.**
- B1773. 6 TUBE 2 BAND (S.W. & B.C.) A.C. SUPER.**
- B1774. 5 TUBE HAM SUPER.**
- B1775. 8 TUBE 4 BAND A.C. SUPER.**
- B1776. 14 TUBE "CUSTOM" ALL-WAVE SUPER.**
- B1777. 14 TUBE "COMMUNICATIONS" SUPER.**
- B1778. NOISE SILENCER.**
- B1779. ELECTRIC FENCE CONTROL.**
- B1780. 6 TUBE 6 VOLT AUTO SET EACH DIAGRAM (To cover handling & mailing) 5c**
- CHOICE OF 6 OVER 4000 OVER 20c**
- OVER DIAGRAMS.....20c**

Schools—colleges—radio clubs. Write for our attractive offerings of wiring diagrams for classroom and recreation group use.

UNIVERSAL 5 METER HANDSET

Compact, lightweight combination earphone and microphone handset. Rugged and fully protected against rough handling. Highly polished moulded bakelite case contains the special high output single button 200 ohm microphone with highly efficient sensitive receiver. Complete with 6 ft. 4 conductor cord with individual leads for microphone and receiver. Especially designed and developed for use with high-frequency transceivers.



B2513. With 2000 ohm receiver. Rugged and fully protected against rough handling. 75 ohm receiver. YOUR PRICE, EACH.....\$5.88

RCA BEAT OSCILLATOR

Will enable you to listen to code signals or tune in weak signals on any broadcast or S.W. super. Requires 1-6S8, or 1-6X4 tube. Range 415-700 K.C. 7"x2 1/2"x7".
B6717. NET.....\$7.50



LISTENING MONITOR

For amateur station monitoring, checking quality of emitted signal or plane carrier, or for frequency drift check. (Not a receiver.) Furnished complete with coil, 20 ft. 40 and 80 meter amateur bands. In rugged steel case, 5x10 1/2". Requires 1-89 tube, 1-3 V. "C" battery (not supplied).
B9193. YOUR PRICE.....\$4.15



VARIABLE CONDENSERS & CHOKES

UNIVERSAL PRECISION GANG CONDENSERS



A tuning condenser of truly universal application. Has $\frac{1}{2}$ " shaft extending out from both ends. Clockwise or counter-clockwise application in a single unit; solid, bar type construction; front and rear ball-bearing bearings; high end plates; high-grade low-loss bakelite insulation; rotor grounding springs for each section. Holes are provided at front, rear and bottom, for bracket or slide bolt mounting.

Trimmers may be placed on either side, or may be removed entirely. $\frac{1}{2}$ " shaft can be increased to $\frac{3}{8}$ " by using 14886 bushing below.

CLOCKWISE OR COUNTER-CLOCKWISE IN ONE UNIT!
These universal condensers solve every replacement or original gang condenser problem. Easy ganging of 2 or more 2 or 3 gang units for obtaining 4, 5, 6 or more ganged sections. Either end may be used as front, providing either clockwise or counter-clockwise rotation in a single unit. Slotted end plates for complete alignment of all circuits. Two styles: TRF type, all sections alike, for TRF or padded sec. circuits, and superhet type, with special cut section for unpadded oscillators. High end shields measure $3\frac{1}{2} \times 2\frac{1}{2}$ ".

370 MMF. - 2 GANG	370 MMF. - 3 GANG
B4134. TRF.	B4137. TRF.
B4135. 456 KC.	B4138. 475 KC.
NET EACH.....	NET EACH.....
\$1.34	\$1.81
430 MMF. - 2 GANG	430 MMF. - 3 GANG
B4136. TRF.	B4139. TRF.
NET EACH.....	NET EACH.....
\$1.21	\$1.91

DE-JONG BAND-SPREAD CONDENSERS WITH AIRPLANE DIAL



New band-spread tuning unit with one dial control. Main condenser drives one section; other pointer is driven by band-spread condenser section. Has smooth operating planetary drive with no backlash. One knob controls both sections at will. Airplane dial is calibrated 0-100 on top scale and 0-10 on bottom scale.

No. Gang Mmf. NET	No. Gang Mmf. NET
B2700 2 370 \$6.17	B2701 3 370 \$6.90
B2702 2 140	B2703 3 140
B2704. Complete 3 gang assembly, 420 MMF. Dial is calibrated 500 to 1500 KC., 1500 to 4000 KC., 4 to 10 MC., 9 to 23 MC., and 100 division scale. Counter-clockwise. NET.	

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 $\frac{3}{8} \times \frac{3}{8} \times \frac{1}{4}$ ". Pull-plate type, with high grade mica dielectric, 3-30 mm. in all enough to mount inside coils or directly to coil terminals.

B2949. NET EACH	6c
LOTS OF 10	50c
B2947. Ceramic Type. Has porcelain base instead of bakelite. Low-loss. Measures $\frac{3}{8} \times \frac{3}{8} \times \frac{1}{4}$ ". NET	8c

TRIMMER AND PADDING CONDENSERS

For HF, IF, and audio circuits. First quality mica-insulated; isolantite base. New screw driver adjustment. May be shunted by fixed mica condenser to increase maximum capacity. Solder lug type connector; fit in small space or in coil form. Dual sections are for use in dual band sets, complete IF. Oscillator or similar circuits, etc.

SINGLE TYPE (Fig. A)	
No. Cap. (mf.)	NET
B6430 35-150	16c
B6431 50-225	19c
B6432 120-300	22c
B6433 200-600	24c
B6434 305-735	24c
B6435 520-960	30c
DUAL TYPE (Fig. B)	
No. Mf. NET	
B6490 20-75	21c
B6491 50-180	26c
B6492 100-300	26c
B6493 170-410	38c
B6494 300-600	44c
B6495 500-675	44c
B6496 725-850	47c

CONDENSER COUPLING

Insulated, bakelite flexible shaft coupling. Permits tandem operation of condensers, etc. For $\frac{1}{2}$ " shaft.

B4149. NET.....	21c
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USL MIDGET CONDENSERS

A small, well-built condenser, ideal for Short Wave use. $\frac{1}{2}$ " shaft extends $\frac{1}{2}$ " from front of condenser. $\frac{1}{2}$ " bushing allows rigid mounting on panels up to $\frac{3}{8}$ " thick. Single hole-mount; fits $\frac{1}{2}$ " hole. Overall size with plates open, $1\frac{1}{2} \times 1\frac{1}{2}$ ". Attractively priced. High quality units.

No. Plates Mmf. Mnt. NET	No. Plates Mmf. Mnt. NET
B4125 3 3 15 35c	B4132 12 6 80 47c
B4126 3 4 20 36c	B4129 15 7 100 48c
B4127 3 5 25 41c	B4133 18 8 125 53c
B4128 9 6 60 44c	B4130 20 8 140 57c

PRECISION SINGLE CONDENSERS

General-purpose compact single unit condensers. Low-loss bakelite insulation. Measure $3\frac{1}{2} \times 1\frac{1}{2}$ ", $1\frac{1}{2}$ " deep. $\frac{1}{2}$ " shaft. Clockwise; condenser closes to right.

No. Cap. Mmf. NET EACH	
B4115.....100	
B4116.....150	
B4117.....200	
B4118.....250	

PRECISION 150 MMF. GANG CONDENSERS

Compact short-wave gang condensers. Ball-bearing pivots. Trimmers may be mounted on either side or removed. $3\frac{1}{2} \times 1\frac{1}{2}$ " end measurements.

B4119. 2 GANG. YOUR NET PRICE. \$1.05	B4120. 3 GANG. YOUR NET PRICE. \$1.39
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KNIGHT COMPACT CONDENSERS

New, easy-to-mount compact condenser assemblies of superior design and precise construction. Trimmers are mounted on both sides. Plates slotted for accurate alignment. Maximum capacity, 370 mmf. Clockwise rotation. Available for either TRF and padded oscillator circuits, or with specially cut section for tracking unpadded oscillators. $\frac{1}{2}$ " shaft extends $1\frac{1}{2}$ ". End shields measure $2\frac{1}{2} \times 1\frac{1}{2}$ ".

2 GANG		3 GANG	
B4141. TRF. NET EACH	95c	B4143. TRF. NET EACH	\$1.31
B4142. 456 KC. YOUR NET PRICE.		B4144. 456 KC. YOUR NET PRICE.	

SHAFT FITTINGS

For Every Purpose

Split Bushing	Coupling	Ext. ender
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COUPLINGS AND EXTENSION

Couplings are designed 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	INSULATED	BRASS	STOCK NO.
$\frac{1}{8} \times \frac{1}{8}$	Coupling	B4570	B4576	
$\frac{1}{4} \times \frac{1}{4}$	Coupling	B4571	B4577	
$\frac{3}{8} \times \frac{3}{8}$	Coupling	B4572	B4578	
$\frac{1}{2} \times \frac{1}{2}$	Ext.	B4573	B4579	
$\frac{3}{4} \times \frac{3}{4}$	Ext.	B4574	B4580	
1×1	Ext.	B4575	B4581	
Assorted Per 10	Assorted	Per 100	NET EACH	9c
85c	85c	85c		

BRASS AND FIBRE SHAPING

For extensions or replacements. $\frac{1}{2}$ " dia.

B4582. Brass, 6" long. EACH	10c
B4583. Brass, 12" long. EACH	19c
B4584. Fibre, 6" long. EACH	10c
B4585. Fibre, 12" long. EACH	19c

SPLIT BUSHING

For increasing shaft diameter from $\frac{1}{8}$ " to $\frac{3}{8}$ ". Brass. $\frac{1}{2}$ " L.D. $\frac{1}{2}$ " O.D. $\frac{1}{2}$ " long.

B4586. Per 10, 35c. EACH	5c
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PANEL BEARING ASSEMBLY

For use with light or heavy duty couplings for mounting volume controls, condensers, rheostats, etc. as a distance away from the panel. Use these panel bearings for reducing body capacity in VLF receivers and transmitters. Made of brass. Takes panels up to $\frac{1}{2}$ " thick. For $\frac{1}{2}$ " shafts.

B5727. Overall length 3". NET	21c
B5728. Overall length 6". NET	26c
B5729. Bearing only. NET	12c

RADIO FREQUENCY CHOKES AIR-CORE

Compact, silk-covered wire, R.F. chokes. High impedance, lattice-wound die. Thoroughly impregnated for trouble-free service. Two types: Shielded or unmounted.

Unmounted		Shielded	
No. MH NET		No. MH NET	
B5605 2 1/2 15c		B5613 2 1/2 26c	
B5606 3 1/2 15c		B5614 3 1/2 26c	
B5607 4 1/2 15c		B5615 4 1/2 26c	
B5608 6 1/2 15c		B5616 6 1/2 26c	
B5609 8 1/2 15c		B5617 8 1/2 26c	
B5610 10 1/2 15c		B5618 10 1/2 26c	
B5611 12 1/2 15c		B5619 12 1/2 26c	
B5612 15 1/2 15c		B5620 15 1/2 26c	

FERRICAT (Iron Core)

New High-Q HF chokes; may be used in place of air-core chokes for higher efficiency. Provide greater gain and selectivity in either tuned or untuned plate load circuits.

No. MH NET	No. MH NET
B5785 2 1/2 34c	B5789 30 65c
B5786 3 1/2 34c	B5790 40 65c
B5787 4 1/2 37c	B5791 80 65c
B5788 10 43c	B5792 125 85c

POLARIZED

A new efficient, popularized R.F. choke. Sectionalized winding construction minimizes distributed capacity. Thoroughly impregnated against moisture. Has metal mounting feet.

No. MH NET EACH	
B5628.....25 M.H.	
B5627.....33 M.H.	
B5626.....45 M.H.	
B5625.....60 M.H.	
B5624.....80 M.H.	
B5623.....100 M.H.	
B5622.....125 M.H.	

NEW COILS FOR ALL PURPOSES

LATEST TYPE MEISSNER COILS

FERROCART IRON-CORE I. F. TRANSFORMERS



A new development in I.F. transformers which provides improved performance. The use of a finely powdered iron core, with each iron particle insulated from the others, results in a much higher "Q" than was heretofore possible. Core and winding losses are reduced to a minimum. Gain and selectivity are approximately twice that of air-core types. Ideal for use as replacements or for original installations. Replacing one air-core transformer in old sets with one of these units will greatly increase selectivity and improve the performance of the set. Double-tuned from top; mica-insulated trimmers. Caps measure 1 1/2" square, 3/16" high. Instructions included.

Freq.	Input No.	Interstage No.	Output No.
175 KC	B5800	B5804	B5808
456 KC	B5801	B5805	B5809
1200 KC	B5802	B5806	B5810
2000 KC	B5803	B5807	B5811

NET EACH..... **\$1.18**

HIGH GAIN THREE PI I.F. TRANSFORMERS



New type 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. Double-tuned. Caps measure 1 1/2" x 3/16". Color-coded leads.

B5812. 456 KC Input.	88c
B5813. 456 KC Output.	88c

MATCHED-PAIR CRYSTAL FILTER I. F. TRANSFORMERS



For use in low-impedance link-coupled crystal filter circuits in communication receivers. Supplied in matched pairs designed to provide optimum gain. Have 1/16" mounting centers.

AIR TUNED TYPE	PER PAIR
B5814. 456 KC	\$4.70
B5815. 3000 KC	
MICA TUNED TYPE	PER PAIR
B5816. 456 KC	\$2.35
B5817. 3000 KC	

BEAT FREQUENCY OSCILLATORS



Especially designed units for use in intermediate beat-frequency oscillators in all-wave or short-wave receivers not already so equipped. Will provide the best tuning for locating weak signals, or for mode reception. Each unit has color-coded leads and instructions. Size, 1 1/2" square x 3/16". With pilot control knob on top. Mica-insulated trimmer.

B5818. 456 KC.	EACH..... \$1.03
B5819. 3000 KC.	

PENTAGRID OSCILLATORS



Compact, thoroughly impregnated oscillator coils particularly designed for use with Pentagrid tubes. Easy to mount; bakelite base with lug terminals. For use with 363 mmf. TRF type variable condenser.

UNSHIELDED TYPE	NET EACH.....
B5820. 175 KC. Use 900 mmf. padder.	38c
B5821. 456 KC. Use 350 mmf. padder.	

SHIELDED TYPE	NET EACH.....
B5822. 175 KC. Use 900 mmf. padder.	56c
B5823. 456 KC. Use 350 mmf. padder.	

"ALIGN-AIRE" FERROCART IRON-CORE I. F. S



A new line of high-efficiency I.F. transformers having iron-cores. Will greatly increase gain, selectivity and sensitivity of either old or new sets. Tuned with air-dielectric windings affording maximum stability. No frequency drift under normal changes of temperature. Finest Litz sound coils, completely shielded; with spoke lug mountings. Can size, 2x2x3/16". Double top tuned.

Freq.	Input No.	Interstage No.	Output No.
175 KC	B5825	B5828	B5831
456 KC	B5826	B5829	B5832
2000 KC	B5827	B5830	B5833

NET EACH..... **\$2.65**

TRIPLE-TUNED I. F. TRANSFORMERS



Provide high fidelity reception without sacrificing sensitivity or selectivity. Flat-top characteristic eliminates side-band cutting. Allows 10 KC selectivity with severe attenuation of adjacent channels. Side-mounted trimmers. Ideal replacements for sets with only one I.F. stage. Size, square, 2" high. B5793. 456 KC. \$1.47 Input. Net. B5794. 456 KC Output. Net.

B5834. Television special. Tubes 4000-5000 KC. NET.	\$2.65
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UNIVERSAL ADJUSTABLE IRON-CORE COILS



A unique line of coils that permits exact duplication of defective I.F., Antenna, or Oscillator coils in any set. Inductance is continuously variable over a wide range to permit accurate tracking with old coils, in receivers requiring the replacement of only one or two coils. Fully shielded; easily mounted in small space. Simple screw-driver adjustment. Size, 1 1/2" x 1 1/2" x 2 1/2".

B5795. Antenna Coil.	NET EACH..... \$1.18
B5796. Oscillator Coil.	
B5797. R.F. Coil.	

UNIVERSAL REPLACEMENT COMPOSITE OSCILLATORS



A compact, efficient combination oscillator assembly and I.F. transformer, for use in circuit where first detector is also used as oscillator. Tunes from top. For use with any 270 mmf. TRF type condenser. Measures 2x2x3". Supplied with diagram to assure proper wiring in circuit.

B5798. 175 KC.	NET EACH..... \$1.03
B5799. 456 KC.	

NOISE SILENCER I.F. TRANSFORMERS



A close-coupled I.F. transformer, single-tuned, with center-tapped secondary, especially designed for use in the popular mid-stencil circuits. Mica-tuned; coded leads. Each unit supplied with wiring diagram.

B5890. 175 KC.	NET EACH..... 88c
B5891. 456 KC.	

PRESELECTOR



A high-gain shielded band-pass preselector unit for the broadcast band. Tunes 540-1700 KC with 370 mmf. condenser. Mounted in square aluminum can, 2x2x3". B5782. YOUR PRICE..... **73c**

STANDARD I.F. TRANSFORMERS



Standard high-gain I.F. 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 1/2" square and 3/16" high.

Freq.	Input No.	Interstage No.	Output No.
175 KC	B5835	B5838	B5841
456 KC	B5836	B5839	B5842
2000 KC	B5837	B5840	B5843

NET EACH..... **73c**

CENTER-TAPPED OUTPUTS

B5783. 175 KC.	EACH..... 73c
B5784. 456 KC.	

NEW MILLER COILS



Especially designed to meet the demand for a transformer capable of providing a high degree of selectivity for DX, and a broad band for high fidelity reception. Simple electrical method for varying selectivity eliminates mechanical movements. Available with iron or air cores.

IRON CORE	PER PAIR
B5680. 175 KC.	EACH \$1.47
B5681. 456 KC.	

AIR CORE	PER PAIR
B5682. 175 KC.	EACH \$1.18
B5683. 456 KC.	

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. tuning condensers. Ideal replacements for use in modernizing old sets.

B5684. Antenna Coil.	EACH 88c
B5685. R.F. Coil.	
B5686. Oscillator Coil (405 KC.) (Use 400 mmf.)	

YOUR PRICE **73c**

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" in. high, 1 1/4" in. diameter. Use with 370 mmf. condenser. Covers 1750 to 340 KC. Low impedance primary.

B5844. ANTENNA COIL. Small but highly efficient.	NET EACH..... 31c
B5845. R.F. COIL. Same size and mounting as above.	

B5846. 4 TUBE KIT. Contains 1 Ant. Coil and 1 R.F. Coil.	NET EACH..... 60c
B5847. 5 TUBE KIT. Contains 1 Ant. Coil and 2 R.F. Coils.	

NET EACH..... **89c**

ANT. & 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 routing rings. Caps. 2x2x3". B5848. Antenna Coil. B5849. R.F. Coil. EACH **55c**

MIDGET SOLENOID COILS



Extremely efficient midrange solenoid type coils, wound with enameled wire on a special Tuff 560 for replacement in midset TRF sets. Primaries are adjustable. Unshielded. Tapped coils enable accurate and police reception. For use with 370 mmf. condenser. 540 to 1600 KC.

B5558. SET OF 2 COILS	YOUR PRICE..... 29c
B5659. TAPPED FOR 2400 KC. 1-Antenna coil and 1-RF coil.	

YOUR PRICE **35c**

COILS FOR SHORT WAVE COIL KITS

SKIP-BAND COIL ASSEMBLY



Enables you to build a sensitive receiver tuning from 16 to 55 meters and 175 to 365 meters. Coil assembly is completely wired and ready to install.

Kit contains: 1 coil and antenna coil and 2 band oscillator coil mounted on a band-change switch; padding condenser; 2-456 KC IF transformers. Requires a 2 gang 500 mfd. tuning condenser. Diagram is included. **\$3.54**
B2707. NET.

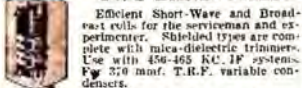
GEN-ER-AL COIL ASSEMBLY



Antenna, RF and Osc. coils, assembled and wired with 4 point wiring chain in 2 coils. Tuning 15 to 54.5 meters in four bands with 350 mfd. 3 gang condenser. Includes 2-456 KC IF transformers and diagram.

B2709. COMPLETE KIT as described above. YOUR PRICE **\$9.35**
B2710. Less I.F. transformers. YOUR PRICE **\$7.20**

TWO BAND COILS



Efficient Short-Wave and Broadcast coils for the serviceman and experimenter. Shielded types are complete with mica-dielectric trimmers. Use 456-465 KC IF systems. Fig. 570 manf. T.I.F. variable condensers.

BROADCAST AND POLICE

Efficient coils for both Broadcast and Police bands. Cover 16-20 meters and 110-555 meters.

SHIELDED TYPE

B7500. Antenna EACH
B7501. R.F. 95c
B7502. Oscillator

UNSHIELDED TYPE

Have 2 adjustable mounting feet. Less trimmer.
B7503. Antenna EACH
B7504. R.F. 53c
B7505. Oscillator

BROADCAST AND SHORT-WAVE
Cover 16-63 meters and 187-555 meters. SW secondary space-wound with solid enamel wire.

SHIELDED TYPE

B7507. Antenna EACH
B7508. R.F. 95c
B7509. Oscillator

UNSHIELDED TYPE

Supplied less trimmers. Adjustable mounting.
B7510. Antenna EACH
B7511. R.F. 53c
B7512. Oscillator
B7514. DUAL ADJUSTABLE PADDING CONDENSER. Each section 180-620 mfd. The correct series padder for the oscillator coils listed above. NET. **40c**

REPLACEMENT PRIMARY WINDINGS



Replacement high-impedance primary windings for use where extreme economy is necessary; for both antenna and RF coils. The dimensions given below are the outside diameters of the coils with which these high quality replacement windings may be used.

B7516.	1 1/4"	NET EACH
B7517.	1 1/2"	
B7518.	2"	15c
B7519.	2 1/2"	
B7520.	3"	

MEISSNER COIL DOPE



This high-grade HF lacquer assures 90% permanent, efficient coils. Absolutely no loss in Q% at any frequency. Quick drying.
B7522. NET **29c**

PLUG-IN COILS



Space-wound coils for use with 110 mfd. smooth bakelite, 1 1/2" diameter and 4 1/2" high; rim-top for easy handling.

4 PRONGS-3 WINDINGS
B5565. Short-Wave Coil Kit. 4 coils cover range from 16 to 217 meters. NET. **85c**

B5566. Broadcast Coil Kit. 2 coils cover range from 150 to 350 meters. NET. **78c**

B5567. Ultra Short-Wave Coils. Covers range from 9.5 to 21 meters. NET. **35c**

5 PRONGS-2 WINDINGS
B5562. Short-Wave Coil Kit. For coils cover from 16 to 217 meters. Use with band-spread coils for general coverage. NET. **\$1.08**

6 PRONGS-3 WINDINGS
B5568. Short-Wave Coil Kit. Primary, secondary and tickler windings. Cover 16 to 200 meters. 4 coils in kit. NET. **\$1.35**

B5569. Broadcast Coil Kit. 2 coils cover 160 to 550 meters. NET. **87c**

B5570. Ultra Short-Wave Coil. Covers 9.5 to 21 meters. NET. **38c**

BAND-SPREAD COILS

5 prong coil complete with ceramic base hand-setting condenser in one unit on top. Served crowded amateur bands over large part of dial. For use with 140 mfd. condenser.

No.	Meters	Range-MC	NET EACH
B1920	20	14.0-14.4	
B1921	40	7.0-7.3	50c
B1922	80	3.5-4.0	
B1923	160	1.7-2.0	
B1924.	Kit of 4 coils.		\$1.90

Five prong band-spread coils for the crowded international short wave broadcast bands.

No.	Meters	Range-MC	NET EACH
B1925	19	15.1-15.4	
B1926	35	11.7-11.9	50c
B1927	31	9.5-9.6	
B1928	49	5.9-6.16	
B1929.	Kit of 4 coils.		\$1.90

BAKELITE RIBBED TYPE



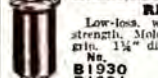
1 1/2" diameter and 2 1/2" high; molded ribs for low-loss winding; rim handles. Uniform windings for use with 146 mfd. condenser.

4 PRONGS-1 WINDINGS
B5574. Short Wave Coil Kit. Set of four coils covers range of 16 to 217 meters. Wire and tickler windings. NET. **\$1.18**

B5575. Broadcast Coil Kit. 2 coils cover 160 to 550 meters. NET. **94c**

B5576. Ultra Short-Wave Coils. Covers 9.5 to 21 meters. NET. **53c**

BAKELITE COIL FORMS



Low-loss, 1 1/2" high bakelite dielectric strength. Molded rim handle for easy grip. 1 1/2" diameter and 2 1/2" high.

No.	Prongs	NET EACH
B1930	4	
B1931	5	10c
B1932	6	
B1933	7M	(.850)
B1934	7S	(.750)
B1935	8M	

SMALL RIBBED TYPE



Genuine molded bakelite; 1 1/2" diameter, 2 1/2" high. Have molded ribs for low-loss winding.

No.	Prongs	NET EACH
B5577	4	
B5578	5	14c
B5579	6	

LARGE RIBBED TYPE

1 1/2" diameter with 2 1/2" winding space. Rim molded on top for easy handling. In 4 colors.

COLOR	PRONG	PRONG	PRONG
Black	B2626	B2630	B2636
Brown	B2626	B2633	B2636
Red	B2627	B2632	B2636
Green	B2628	B2633	B2636

NET EACH **17c 19c 21c**



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 enamel wire on paper tubing. Coils are supplied less tuning condenser and can.

Cat. No.	Majestic Part No.	Model	EACH NET
B7150	4423	15, 15.5, 150	\$0.35
B7151	8384	15, 15.5, 150	.40
B7154	6506	55	.40
B7156	6280	200	.40
B7160	6119	210	.40
B7161	6123	210	.40
B7162	6127	210	.40
B7163	7818	300, 310, 330	.42
B7168	10149	460	.40
B7189	10253	460, 800	.50
B7190	11011	500	.50
B7175	7187	Primary coil used as RF plate coil in Models 290, 300, 310, 330, 460, 520 and 800	.40

COIL ASSEMBLIES IN CANS

Cat. No.	Part No.	Model	EACH NET
B7190	4423	15, 15.5, 150	\$1.35
B7191	8384	15, 15.5, 150	.85
B7193	10149	460	.85
B7194	10843	500	1.25
B7195	3968	20	1.40
B7196	3969	20	1.75
B7197	3967	20	1.75
	4123	60	1.75

DIMOR REACTOR TRANSFORMER FOR MAJESTIC RECEIVERS

An exact duplicate of Majestic Part No. 7285, used in late Majestic receivers as a resonance inductor. Fits chassis exactly.
B7104. List. **\$1.95. NET. 85c**

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, conditions, type, tubes used, etc. Cost depends on coil specs. Send old coil with \$1.50 deposit for replacement or quotation.

THREE CIRCUIT TUNERS

Has primary, secondary, and variable tickler windings. Covers 290 to 570 meters using 350 or 500 mfd. condenser.
B1700. For 350 mfd.
B1701. For 500 mfd.
YOUR PRICE EACH **73c**



R.F. COILS TO MATCH
B1702. For 350 mfd. Condenser. For 465
B1703. For 500 mfd. Condenser.
NET EACH **46c**

TAPPED FOR SHORT WAVE

New three circuit tuner and I.F. Coil as above, but tapped for S. W. reception with 350 mfd. Condenser.
B1704. Taper. YOUR PRICE. **78c**
B1705. R.F. Coil to match Tuner. **48c**
NET

BAND-SWITCHING COILS

Covers from 16 to 550 meters. Two or more units are easily ganged. Has 4 prong base for easy mounting. Complete with pointer knob, dial plate and diagrams. For 140 mfd. condenser.
B5661. List. **\$4.25. NET. 2.25**

SUPERBET OSCILLATOR COILS

Superbet oscillator coil for use with above antenna unit. Tuning 16-550 meters. For K.C. I.F. With diagrams. NET. **\$2.65**

COMPLETE SUPERBET KIT

1 each of above units ganged together, ready for use. With knob, dial plate and diagrams. B5563. NET. **\$4.70**

KNOBBS • DIALS • REMOTE CONTROLS

HIGH GRADE BAKELITE KNOBS

2 TONE KNOBS



ROUND TYPE
Two tone effect and well proportioned. Appropriate for most receiver designs. Smooth, polished finish. For 1/4" shaft.

B6206. 1" diam. 3/8" high. Each.....**6c**
B6207. 1 1/8" diam. 10 Lots. 55c. EACH.....

OCTAGON TYPE



Modern octagon-shaped knobs in pleasing two-tone walnut and oak finish. Set screw type. For 1/4" shaft. Two popular sizes. B6209. 1 1/8" diam.

B6210. 1 1/4" diam. 10 Lots. 55c. EACH.....**6c**

PUSH-ON KNOB



Attractive bakelite knob for 1/4 inch shafts. Push-on type. Excellent for volume controls, switches, etc. 1 1/4" dia.

B2914. NET EACH.....**4c**
LOTS OF 10.....**30c**

NEW OCTAGON KNOB



A handsome domed octagon knob of modern design in rich walnut finish. Will harmonize with practically any cabinet. Diameter, 1 1/4". For standard 1/4" shaft. Set-screw type.

B2917. Lots of 10. 40c. YOUR PRICE EACH.....**5c**

MODERNISTIC TYPES

B6202. 1 1/4" across including pointer. 3/8" high. 1/2" dia. Set screw in side.

B6203. 1 1/2" Dia. hole, 1/2" high. Octagon pyramid top. Walnut finish. Set screw in side.

B6204. 1 1/2" Dia. 1/2" high. 1/4" hole. Set screw in side. Polished black finish. Plated design, with white reference pointer on side.

B6205. 1 1/4" Dia. 1/2" hole. Octagon flat type. Walnut finish. Set screw in side. An attractive knob.

10 for 45c. YOUR PRICE EACH.....**6c**

10 for 45c. YOUR PRICE EACH.....**6c**



STREAMLINED BAR KNOBS

Modern knobs for test instruments and other equipment. Give a professional appearance to your apparatus. With easy-to-read white scale indicator. Reversed set screw to avoid shocks. Fit 1/4 inch shafts. Black or Brown finish.

B6171. Black. 1 1/4". D01. 35c. B6172. Brown. 1 1/4". D02. 35c.

YOUR PRICE EACH.....**9c**
B6173. Black. 3/4". D03. \$1.05
B6174. Brown. 3/4". D04. \$1.05
YOUR PRICE EACH.....**10c**

WALNUT AND MAPLE KNOBS

Genuine wood knobs, beautifully made and finished. For 1/4" shafts. Brass bushing inset; side set screw.

No. Fig. Width Wood
B3766 A 1/4" Walnut
B3767 B 1/4" Walnut

YOUR PRICE EACH.....**8c**
PER 10.....**70c**

B3768 A 1 1/4" Walnut
B3769 B 1 1/4" Walnut
B3770 C 1" Maple
B3771 C 1" Walnut

B3772 D 1 1/4" Walnut
B3773 (Main Top) Walnut
B3774 D 1 1/4" Walnut

YOUR PRICE EACH.....**9c**
PER 10.....**76c**



FIG. A



FIG. B



FIG. C



FIG. D

DRUM TYPE DIAL



Smooth and positive-acting drum dial with translucent rail-etched scale. Ratio 3 1/2 to 1. Fits 3/8" condenser shaft. With pilot light socket and escutcheon.

B4186. 0-100. Clockwise.
B4187. 100-0. Counter-clockwise.
NET EACH.....**98c**

KURZ KASCH VERNIER DIAL



A durable and attractive dial alternative pointer with builders and experimenters. Made of polished black bakelite. Universal scale reads 0-100. Has smooth, positive friction-drive vernier action; no backlash. Available in two sizes, both to fit 1/4" shaft. Ideal for all equipment requiring a smooth, free-running panel-mount dial. Very easy to mount. 4-inch dial has tuning ratio of 13 to 1; 3-inch size has 10 to 1 ratio. Wt., either size, 4 oz.

B4188. 4-inch Dial.....**56c**
B4189. 3-inch Dial.....**47c**

POINTER KNOB



Black 1 1/4" bakelite knob. White arrow on face. Fits 3/8" shaft.
B6208. EACH.....**5c**
LOTS OF 10.....**40c**

AUTO RADIO REMOTE CONTROL ACCESSORIES

"REMOTE-O-CABLE" REPLACER

Here is the solution to your auto radio cable replacement problem. All the work is done by one machine. Enables you to repair or replace worn or broken cables and fittings without delay. Cuts both cable and housing neatly and accurately. Swedens cable ends to prevent unraveling. Removes all types of fittings. (Old fittings may often be salvaged. New long-wearing bronze fittings may be readily installed. Makes it easy to move sets to other cars as exact cable lengths eluding backlash and reduce strain. Self test-of-car and other special installations without waiting for special cables. The Remote-O-Cable Replacer with a small stock of fittings, cable, cable housing, housing ends, and rear fittings, is all that is required. Supplied with instructions. 2 1/2 lbs.
B10405. List. \$47.50.
YOUR PRICE.....**\$37.24**



CONTROL CABLE AND HOUSING

The same cable and housing used by leading factories. Swedens ends on cable to prevent unraveling. Housing Parkized to prevent rust.

CABLE ONLY				HOUSING ONLY			
No.	Length	Net	Per Foot	No.	Length	Net	Per Foot
B1850	150"	\$0.24	1.6c	B1860	18"	\$0.18	\$0.18
B1851	185"	.29	1.5c	B1861	24"	.24	.24
B1852	185"	.36	1.9c	B1862	30"	.30	.30
B1853	185"	.42	2.3c	B1863	36"	.36	.36
B1854	185"	.48	2.6c	B1864	42"	.42	.42
B1855	185"	.54	2.9c	B1865	48"	.48	.48
B1856	185"	.60	3.2c	B1866	54"	.54	.54
B1857	185"	.66	3.5c	B1867	60"	.60	.60
B1858	185"	.72	3.8c	B1868	66"	.66	.66
B1859	185"	.78	4.1c	B1869	72"	.72	.72
B1860	185"	.84	4.4c	B1870	78"	.78	.78
B1861	185"	.90	4.7c	B1871	84"	.84	.84
B1862	185"	.96	5.0c	B1872	90"	.90	.90
B1863	185"	1.02	5.3c	B1873	96"	.96	.96
B1864	185"	1.08	5.6c	B1874	102"	1.02	1.02
B1865	185"	1.14	5.9c	B1875	108"	1.08	1.08
B1866	185"	1.20	6.2c	B1876	114"	1.14	1.14
B1867	185"	1.26	6.5c	B1877	120"	1.20	1.20
B1868	185"	1.32	6.8c	B1878	126"	1.26	1.26
B1869	185"	1.38	7.1c	B1879	132"	1.32	1.32
B1870	185"	1.44	7.4c	B1880	138"	1.38	1.38
B1871	185"	1.50	7.7c	B1881	144"	1.44	1.44
B1872	185"	1.56	8.0c	B1882	150"	1.50	1.50
B1873	185"	1.62	8.3c	B1883	156"	1.56	1.56
B1874	185"	1.68	8.6c	B1884	162"	1.62	1.62
B1875	185"	1.74	8.9c	B1885	168"	1.68	1.68
B1876	185"	1.80	9.2c	B1886	174"	1.74	1.74
B1877	185"	1.86	9.5c	B1887	180"	1.80	1.80
B1878	185"	1.92	9.8c	B1888	186"	1.86	1.86
B1879	185"	1.98	10.1c	B1889	192"	1.92	1.92
B1880	185"	2.04	10.4c	B1890	198"	1.98	1.98
B1881	185"	2.10	10.7c	B1891	204"	2.04	2.04
B1882	185"	2.16	11.0c	B1892	210"	2.10	2.10
B1883	185"	2.22	11.3c	B1893	216"	2.16	2.16
B1884	185"	2.28	11.6c	B1894	222"	2.22	2.22
B1885	185"	2.34	11.9c	B1895	228"	2.28	2.28
B1886	185"	2.40	12.2c	B1896	234"	2.34	2.34
B1887	185"	2.46	12.5c	B1897	240"	2.40	2.40
B1888	185"	2.52	12.8c	B1898	246"	2.46	2.46
B1889	185"	2.58	13.1c	B1899	252"	2.52	2.52
B1890	185"	2.64	13.4c	B1900	258"	2.58	2.58
B1891	185"	2.70	13.7c	B1901	264"	2.64	2.64
B1892	185"	2.76	14.0c	B1902	270"	2.70	2.70
B1893	185"	2.82	14.3c	B1903	276"	2.76	2.76
B1894	185"	2.88	14.6c	B1904	282"	2.82	2.82
B1895	185"	2.94	14.9c	B1905	288"	2.88	2.88
B1896	185"	3.00	15.2c	B1906	294"	2.94	2.94
B1897	185"	3.06	15.5c	B1907	300"	3.00	3.00
B1898	185"	3.12	15.8c	B1908	306"	3.06	3.06
B1899	185"	3.18	16.1c	B1909	312"	3.12	3.12
B1900	185"	3.24	16.4c	B1910	318"	3.18	3.18
B1901	185"	3.30	16.7c	B1911	324"	3.24	3.24
B1902	185"	3.36	17.0c	B1912	330"	3.30	3.30
B1903	185"	3.42	17.3c	B1913	336"	3.36	3.36
B1904	185"	3.48	17.6c	B1914	342"	3.42	3.42
B1905	185"	3.54	17.9c	B1915	348"	3.48	3.48
B1906	185"	3.60	18.2c	B1916	354"	3.54	3.54
B1907	185"	3.66	18.5c	B1917	360"	3.60	3.60
B1908	185"	3.72	18.8c	B1918	366"	3.66	3.66
B1909	185"	3.78	19.1c	B1919	372"	3.72	3.72
B1910	185"	3.84	19.4c	B1920	378"	3.78	3.78
B1911	185"	3.90	19.7c	B1921	384"	3.84	3.84
B1912	185"	3.96	20.0c	B1922	390"	3.90	3.90
B1913	185"	4.02	20.3c	B1923	396"	3.96	3.96
B1914	185"	4.08	20.6c	B1924	402"	4.02	4.02
B1915	185"	4.14	20.9c	B1925	408"	4.08	4.08
B1916	185"	4.20	21.2c	B1926	414"	4.14	4.14
B1917	185"	4.26	21.5c	B1927	420"	4.20	4.20
B1918	185"	4.32	21.8c	B1928	426"	4.26	4.26
B1919	185"	4.38	22.1c	B1929	432"	4.32	4.32
B1920	185"	4.44	22.4c	B1930	438"	4.38	4.38
B1921	185"	4.50	22.7c	B1931	444"	4.44	4.44
B1922	185"	4.56	23.0c	B1932	450"	4.50	4.50
B1923	185"	4.62	23.3c	B1933	456"	4.56	4.56
B1924	185"	4.68	23.6c	B1934	462"	4.62	4.62
B1925	185"	4.74	23.9c	B1935	468"	4.68	4.68
B1926	185"	4.80	24.2c	B1936	474"	4.74	4.74
B1927	185"	4.86	24.5c	B1937	480"	4.80	4.80
B1928	185"	4.92	24.8c	B1938	486"	4.86	4.86
B1929	185"	4.98	25.1c	B1939	492"	4.92	4.92
B1930	185"	5.04	25.4c	B1940	498"	4.98	4.98
B1931	185"	5.10	25.7c	B1941	504"	5.04	5.04
B1932	185"	5.16	26.0c	B1942	510"	5.10	5.10
B1933	185"	5.22	26.3c	B1943	516"	5.16	5.16
B1934	185"	5.28	26.6c	B1944	522"	5.22	5.22
B1935	185"	5.34	26.9c	B1945	528"	5.28	5.28
B1936	185"	5.40	27.2c	B1946	534"	5.34	5.34
B1937	185"	5.46	27.5c	B1947	540"	5.40	5.40
B1938	185"	5.52	27.8c	B1948	546"	5.46	5.46
B1939	185"	5.58	28.1c	B1949	552"	5.52	5.52
B1940	185"	5.64	28.4c	B1950	558"	5.58	5.58
B1941	185"	5.70	28.7c	B1951	564"	5.64	5.64
B1942	185"	5.76	29.0c	B1952	570"	5.64	5.64
B1943	185"	5.82	29.3c	B1953	576"	5.64	5.64
B1944	185"	5.88	29.6c	B1954	582"	5.64	5.64
B1945	185"	5.94	29.9c	B1955	588"	5.64	5.64
B1946	185"	6.00	30.2c	B1956	594"	5.64	5.64
B1947	185"	6.06	30.5c	B1957	600"</		

DIALS PILOT LIGHTS DIAL CABLES

GENUINE EVEREADY MAZDA PILOT LIGHT BULBS

Genuline Eveready Mazda pilot light bulbs. Famous for quality and dependable long life. These lamps are made to operate from the voltages indicated. Excellent for all pilot lamp requirements. Will give long continuous service. Suitable for all standard radio sets and devices. Wt. 1 oz.

STOCK No.	Lamp No.	Volts	Amps.	PRICE EACH	PER 10
B1250	41	2.5	.90	9c	\$0.50
B1251	43*	2.5	.90	10c	.59
B1251	42	3.2	.95	12c	.71
B1253	40	6.3	1.5	9c	.59
B1257	50†	8	2.0	10c	.69
B1216	51†*	6-8	1.0	7c	.41
B1254	Spec.	2.0	0.6	20c	1.18
B1217	Spec.*	2.0	0.6	25c	1.59
B1255	44*	6.3	2.5	9c	.54
B1256	46	6.3	2.5	9c	.54

*Indicates miniature bayonet base. †Indicates small round bulb.

SPECIAL BULB FOR RCA-VICTOR RE32

S11. A 115 volt bulb with intermediate base; special for RCA-Victor RE32. 10 watt. B6449. NET EACH.....20c



PILOT LIGHT SOCKETS

Pilot light sockets for all radio requirements. High quality construction. Carefully assembled with silver-plated lugs for easy soldering. Springs contact in the socket holds lamp firmly in place. Sockets may be mounted in different positions. B6380. Type A. B6381. Type B. B6382. Type C. B6378. Type D. Bayonet Shell Type. B6379. Similar to type D, but mounting clip reversed. 10 Lots. 40c. 100 Lots. \$3.70. NET EACH.....5c

JEWELLED PILOT LIGHT BRACKETS

Visual indicators for use on power amplifiers, relay racks, etc. Bracket mounted on socket takes regular pilot light bulbs. 8 1/2 x 1 1/2 inch mounting. Serves as a definite means of knowing when your equipment is "on" complete with jewel. B6388. RED. B6389. GREEN. B6390. AMBER. NET EACH.....16c

JEWELS FOR PILOT LIGHTS

Attractive colored jewels with mounting nuts for panel use. Easy to mount on panels up to 3/4 inch thickness. 8 1/2 x 1 1/2 hole. Have 3/4" threaded shank. 3/4" long. B6384. Red. B6385. Green. B6386. Amber. EACH.....10c

DIAL LITE COLORING KIT

Especially applied transparent colors. For use on pilot and dial light bulbs. Kit contains one bottle each: Green, Blue, Red and Brown; with a bottle of solvent for cleaning bulbs. B2998. NET PER KIT.....29c

BRAIDED SILK DIAL CORD

Durable dial cord of pure Japanese silk, with water-proof finish. Flexible, non-kinking. Easy to install. No. Length. NET PRICE. B6080 5 ft. \$0.22 B6081 25 ft. .80 B6082 50 ft. 1.50 B6083 100 ft. 2.75

VALUES IN MODERN DIALS 3 1/4 INCH MODERNISTIC DIAL



An attractive modernistic square type airplane dial with handsome bronze escutcheon. Positive non-slip friction drive. For 3/8" shaft, but supplied with 1/2" to 3/4" reducer for use on condensers with 3/8" shaft. Tuning ratio of 10-1 assures sharp easy tuning. Universal scale for use with any clockwise or counter-clockwise condenser. Complete with two pilot light brackets. Shpg. wt. 1 lb. B4180. NET EACH.....\$1.05

5 1/4 INCH AIRPLANE DIAL



A large strikingly handsome dial. Glass protected poralyn face carries two scales. 0-100 and 100-0 for use with either clockwise or counter clockwise condensers. Dual pointers travel with ratio of condenser 10-1 tuning ratio. Has two pilot light brackets and brown bakelite escutcheon for use with split bushing for use on condensers having 3/8" shaft. Shpg. wt. 2 lbs. B4177. EACH.....\$1.47

4 INCH AIRPLANE DIAL



A high quality translucent dial with universal scale. Positive friction drive will not slip. Tuning ratio 9 to 1, for smooth easy tuning. Dial pointer travels with condenser. Will fit 3/8" shaft. With two pilot light sockets, escutcheon plate and bushing for 3/8" shafts. B4181. YOUR PRICE.....\$1.10

CROWE DeLuxe Micromaster



A brand new MICRO-MASTER dial combining extremely beautiful appearance with exceptionally fine tuning. Glass protected poralyn and brown poralyn scale is calibrated 0-100. Two speed planetary drive has slow-tuning ratio of 100 to 1, and fast ratio of about 18 to 1 in 360°. Secondary pointer makes about 36 revolutions to 1 of the main pointer. Complete with 5/8" x 3/4" bronze escutcheon, two brown knobs, and 3 pilot light sockets. B3752. 0-100 CLOCKWISE. B3753. 100-0 COUNTER CLOCKWISE. NET EACH.....\$5.88

2 SPEED PLANETARY DRIVE



To be used as auxiliary speed reducer on many controls. Mounts on condenser, back of panel, or on knob of shaft of dial. Slow ratio 7 to 1, and fast ratio 1 to 1. Requires dual knob. Fits 3/8" shaft. B3756. YOUR PRICE.....88c

GIANT 6 1/4 INCH BANDSPREAD DIAL



A beautiful 6 1/4" bandspread dial. New Divisor A-Meter two speed planetary drive provides handoperated equivalent to 1 1/2 feet over 150 degrees. Ratio, 22 to 1 over 360 degrees. For use with 365 or 420 mmf. condensers. Ideal for replacing dials in sets taken in as "trade-ins" on new sets. These sets can then be resold at handsome profits. Complete with beautiful 7 1/2" bezel, bronze escutcheon, mounting brackets and adjuster for 1/2" or 5/8" shaft. Shpg. wt. 2 lbs. B4190. List. \$8.75. NET.....\$3.97

3 1/4 INCH AIRPLANE DIAL



A positive action, smooth-tuning dial. Dual translucent universal scale is protected by convex glass bezel. Tuning ratio 6 to 1. Pointer travels with condenser. Supplied with pilot light sockets, handsome bronze finished escutcheon. Fits 3/8" condenser shaft. Equipped with split bushing for use on 3/8" shafts. Shpg. wt. 1 lb. B4182. YOUR PRICE.....85c

2 1/2 INCH AIRPLANE DIAL



A smooth, positive-action, friction-drive dial, with a tuning ratio of 5 to 1. Has dual translucent dial calibrated with a universal scale. 0-100 and 100-1, protected by convex glass bezel. With escutcheon and single pilot light socket. Fits 3/8" shaft. B4178. YOUR PRICE.....69c

CROWE MICROMASTER BANDSPREAD DIAL



A beautiful modern dial for All-Wave and Short-Wave Receivers. Two-speed planetary drive provides a slow speed of 44 to 1, and a fast speed of 9 to 1. Second hand's pointer ratio is 16 to 1. 3 1/2" diam. dial scale, protected by glass bezel; with bronze escutcheon. B3773. Scales: UPPER. 0-100. LOWER. 100-0. BAND SPREAD. 1-12. B3774. Scales: UPPER. 100-0. LOWER. 0-100. YOUR PRICE EACH.....\$3.17

Knobs for Planetary Drives

For drive unit listed at left. Large knob fits 3/8" high speed shaft; small one fits 1/2" slow speed shaft. B3757. Walnut. B3758. Black. PER PAIR.....12c

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 STRAND		16 BRAIDED	
NET	NET	NET	NET
B6070 5 ft. \$0.20	B6074 5 ft. 6c	B6075 25 ft. 22c	B6076 50 ft. 36c
B6071 25 ft. .74	B6077 100 ft. 80c	B6078 100 ft. 80c	B6079 100 ft. 80c
B6072 50 ft. 1.39			
B6073 100 ft. 2.50			

EXACT DUPLICATE DRIVE CABLE BANDS-BELTS

Exact duplicates in size, material and design as the originals. We can supply any type of cable, band or belt on special order. Send us Stock No., Model and Material.

Stock No.	Model	NET	Material	NET
B6085	30	15c	30	15c
B6086	32	15c	32	15c
B6087	35, 37	15c	35, 37	15c
B6088	41	24c	41	24c
B6089	46	15c	46	15c
B6090	55	15c	55	15c
B6092	All	31c	All	31c
B6104	814, 21	31.15c	814, 21	31.15c
B6105	15, 25 Front	22c	15, 25 Front	22c
B6106	25, 35	24c	25, 35	24c
B6109	Crosley	18c	Crosley	18c
B6093	40c, 60c, 804, 18c		40c, 60c, 804, 18c	
B6094	601, 602, 607, 21c		601, 602, 607, 21c	
B6095	No. 1-70.		No. 1-70.	
			71, 72	9c
B6097	71, 72	9c	Majestic (Cont.)	
B6103	150, 60	73c		
B6098	All	13c		
B6100	16, 17, 18.			
			33	15c
			80, 82, 86, 21c	

DIALS PHOTO ELECTRIC CELLS



INSTRUMENT DIALS
Chrome silver dial with grain
satin finish and engraved, black
numerals and calibrations. Vernier
grip knob for $\frac{1}{4}$ " shaft. Reads
0-100. With vernier marker.

2 1/2" INCH DIALS
B5733. 325 Degrees.
B5734. 180 Degrees.
NET EACH **73c**

4" INCH DIALS
B5735. 325 Degrees.
B5736. 180 Degrees.
YOUR PRICE
EACH **\$1.03**

**CHROME SILVER
DIAL
PLATES
WITH
FLANGE
KNOBS**

Attractive
grain satin fin-
ish. Have
black etched
lines on chrome silver. Dial plate
reads 0-100. Supplied with Finger
Grip flange knob for $\frac{1}{4}$ " shafts.

3 1/2" INCH DIAL PLATE
B5737. 180 Degrees.
B5738. 325 Degrees.
NET EACH **74c**

4" INCH DIAL PLATE
B5739. 180 Degrees.
B5740. 325 Degrees.
NET EACH **91c**

**CHROME SILVER
DIAL PLATES**



WITH POINTER KNOBS
Handsome, professional dial
plates finished in silver-grain satin
with calibration clearly engraved
in black. Calibrated 0 to 100.
Plated finger grip pointer knob fits
all $\frac{1}{4}$ " shafts. These plates lend
a commercial appearance to your
receiver, transmitter, etc. 325°
type ideal for use on volume con-
trols, on amplifiers, modulators, etc.
The 180° dial plate are excellent for
use with all standard receiving and
transmitting condensers.

3" INCH DIAL PLATES
B5670. 180 Degrees.
B5671. 325 Degrees.
NET EACH **52c**

3 1/2" INCH DIAL PLATES
B5672. 180 Degrees.
B5673. 325 Degrees.
NET EACH **71c**

4" INCH DIAL PLATES
B5674. 180 Degrees.
B5675. 325 Degrees.
NET EACH **91c**

DIAL PLATES ONLY
Above plates less knob.
180 DEGREES

No.	Dia.	NET
B5741	2"	28c
B5742	2 1/2"	48c
B5743	3"	57c
325 DEGREES		
B5744	2"	28c
B5745	2 1/2"	48c
B5746	3"	57c



FINGER GRIP KNOBS
Molded of high quality black
bakelite; for $\frac{1}{4}$ " shaft. Has an
attractive, professional appearance.
Plated rim gives positive grip for
delicate adjustment. Supplied with
flange, with pointer, or plain.

WITH POINTER
B5475. 1 1/2" Flg. A..... 25c
B5476. 1 1/2" Flg. A..... 30c
B5477. 2 1/2" Flg. A..... 36c

WITH FLANGE
B5478. 1 1/2" Flg. B..... 28c
B5479. 2 1/2" Flg. B..... 37c

LESS POINTER
Similar to Fig. A, but less pointer.
B5480. 1 1/2" EACH..... 17c
B5481. 1 1/2" EACH..... 23c
B5482. 2 1/2" EACH..... 28c

NAVY KEY KNOBS
Molded of
black Insulite.
For easy keying.
3/8" high; 1 1/2"
dia. Fits on
skirt. 8-32 screw.
B5730. 9c
NET EA..... **9c**

**ETCHED METAL
NAME PLATES**

MICROPHONE

STANDARD SIZE
High quality name plates des-
igned to fit your equipment at 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: Micro-
phone, Photo Input, Detector,
Transmitter, 1st Buffer Grid, Power
Amp. Plate, Antenna, Plate
Voltage, Filament Voltage, A.C. or
Rectifier, A.C. Input, Modulator
Plate, Gain Control, Inset, etc.

Write for free complete list of
name plates available. Standard size
plate is 1 1/2 x 3/4 inches. This size
is especially suited for Sound
and Test Equipment. Furnished
complete with self-tapping machine
screws. SPECIFY MARKING
DESIRED WITH
ORDERING.
B2885. NET EACH..... **6c**

DE LUXE SIZE
Similar in design and markings to
above but larger—2 1/2 x 1 1/2 inches.
Especially designed for transmitter,
etc. WRITE FOR COM-
PLETE LIST.
B2888. NET EACH..... **10c**

AC-DC DIAL PLATES
Attractive round
etched plates for small
A.C.-D.C. sets. Graduated
tuning dial is
marked 0-100. Volume
plate has etched ar-
row. 1 1/2" diameter.
Brass finish.
B5676. Tuning dial.
B5678. Volume.
NET EACH **9c**

**VERNIER
DIAL
MARKERS**

Attractive dial marker for accu-
rate tuning. Chrome silver with
grained satin finish. With screw.

Cat. No.	Dial	Size	Degrees	NET
B5747	2 1/2"	3/8"	325	EACH
B5748	2 1/2"	3/8"	180	EACH
B5749	2 1/2"	3/8"	180	EACH
B5732	4"	1/2"	150	17c

EBY PHOTO CELL EQUIPMENT



**PHOTO
CELL**
A new type
of photo cell de-
signed for long
life and maxi-
mum sensitiv-
ity. Ideal for
controlling circuits,
and for several
experimental pur-
poses. Entire unit
is shock-proof and
humidity-proof.
Unaffected by con-
tinuous exposure
to lights of strong
intensity, and will
operate on voltages
as high as 250
volts without dam-
age to cell.
Response curve
covers visual spec-
trum, and extends
far into infra-
red. Measures 1 1/2"
dia., 1 1/2" high.
Mounts in stand-
ard four prong
socket. **\$3.18**
B4032. NET.....



**SENSITIVE
RELAYS**
Designed for
direct, or for full
or half-wave rec-
tified current
circuits, with
100% operating
power is small.
Ideal for photo cell
equipment, vacu-
um tube amplifier
circuits, etc.,
due to the low power
necessary to
make contact. Steer-
ing silver wire con-
tacts carry 2 A.M.S.
at 115 V. D.C.
A.C. or 1.5 Amp. at
115 V. D.C.
B4045. 1000 ohm coil.
B4046. 2500 ohm coil.
B4047. 5000 ohm coil.
B4048. 10000
ohm coil. **\$4.15**
NET EACH.....

ELECTRIC EYE HANDBOOK
B4033. 32 pages of new
material pertinent to photo
electric cell, photo cell,
photo eye, etc. Includes
adaptations of Electric Eye.
Just the book for the experimenter
or engineer.
NET **35c**

EXPERIMENTAL KIT
Necessary parts for building
various Electric Eye circuits.
Includes the Eby Electric Eye,
sensitive relay; tube and eye sockets,
resistor, condensers, circuits and
information.
B4049. NET..... **\$9.55**

PHOTO CELL AND RELAY

An efficient light-controlled instrument with many
valuable uses. Contains a sensitive photo-cell and
quick acting relay. Can be used to actuate automatic
door opening mechanism, for grading and counting
packages on production lines, for controlling lights, or
for a host of other applications. Size 4 1/2" x 3 1/2".
Suitable light source is listed below. With
Type No. V. 60 cycles.
B1230. NET..... **\$1.47c**



LIGHT SOURCE FOR PHOTO CELL
B1231. A ruggedly built light source for use with the above or similar
photo-cell relay units. Operates from 110 Volt 60 cycle supply. Uses
standard 6-volt 32 C.P. auto bulb. Light beam is protected by mos-
aic of brass tube fitted with high grade optical lens.
Size 2 1/2" square, 5 1/2" high. With bulb. NET..... **\$5.88**

PHOTO ELECTRIC CELLS

CETRON CE-3
B1135. A high quality photo-electric cell suitable for a
variety of electronic applications. May be used to replace
W.E. type for sound film work. Connections are made by
means of flexible leads with phone plugs. Light beam is
1 1/2" sq. in. Requires an average ionizing voltage of 135 Volts.
CE-1 CELL
B1136. For replacement in such
moving-picture equipment as Arnie
Simplex, Edco, Molola, RCA
Photophone, Powers, etc. 4 prong
plug-in type base. 3/8" high, with
cathode area of .84".
YOUR NET PRICE
EACH OF THE ABOVE CELLS.....

CE-2 CELL
B1137. A shutter, wider cell,
with cathode area of 1.33". For
use with Argus, Bevoine, DeVry,
Fottl Harze, Patent, and Universal
type projection equipment. Height,
2 1/2", 4 prong base. **\$5.40**

ETCHED METAL DIAL PLATES

Attractive black dial
plates with etched
aluminum figures. Suitable
for use on amplifier
panels, etc. Measure
2 1/2" high x 1 1/2"
wide. For 500° rotation.
B4100. "Record" 0-10.
B4101. "Microphone" 0-10.
B4102. "Gain" 0-10.
B4103. "Tone" 0-10.
B4104. "Master Gain" 0-10.
B4105. Plain. 0-10.
YOUR PRICE
EACH PLATE..... **12c**

GEAR REDUCTION UNIT
5 TO 1 RATIO
For use with any
type of photo cell or
equipment with reduction
gear. Has dou-
ble-driven gear and
black bakelite drive shaft.
EACH
B4111. For 1/4" shaft. **35c**
B4108. For 3/8" shaft. **35c**

ROUND TYPE SWITCH PLATES

Toggle-switch
plates, attractively
finished in etched
aluminum with
black background.
Diameter 1 1/2".
B4106. "MICROPHONE."
B4107. "OFF-ON."
EACH PRICE
EACH..... **7c**

UTAH SENSITIVE RELAYS

Plus-standard 4 or 5 prong
tube sockets. Silver contact
will handle 250 Watts at
110 V. 1 1/2" dia. For D.C.
or A.C.

No.	Coil Volts	Contacts
B1150	2	S.P. Open
B1151	0	S.P. Open
B1152	2	S.P. Open
B1153	110	S.P. Open
B1154	2	S.P. Closed
B1155	6	S.P. Closed
B1156	32	S.P. Closed
B1157	110	S.P. Closed
B1158	2	S.P.D.T.
B1159	6	S.P.D.T.
B1160	32	S.P.D.T.
B1161	110	S.P.D.T.

NET
EACH **\$1.76**

Amateur & Short Wave Books

RADIO AMATEUR CALL BOOK



LATEST EDITION

Lasts over 10,000 U. S. A. and Foreign Amateurs. Contains a complete, accurate list of all high-frequency Commercial and Broadcast stations. Gives accurate schedules of Time, Weather and Press reports from principal stations throughout the world, including international abbreviations, Q. R. & T. signal report tables, international prefixes, postal rates to foreign countries, U. S. inspection districts. Extremely helpful to every Amateur and Short-Wave Listener.

B709. YOUR PRICE \$1.25

POPULAR S.W. BOOKS



HOW TO BUILD AND OPERATE SHORT WAVE RECEIVERS

Prepared by Short Wave Craft Magazine. Describes dozens of successful Short Wave sets and converters, showing wiring and layout diagrams. Clearly written for the Short Wave fan to assure successful construction and operation. 16 pages.

B5237. NET 40c

101 SHORT WAVE HOOK-UPS

Contains complete diagrams and explanations of all the important short wave hook-ups of the last few years, including the "12" Trimeter, "Globe-Trieter," 2 Tube Tee-Wec, Regenerative Oscillator, and many others.

B5238. NET 40c

SHORT WAVE COIL BOOK

This book should be in the library of every Amateur, Beginner and Experimenter. 16 pages of useful data. Contains illustrations showing full instructions and main methods for winding all types of coils.

B5239. YOUR PRICE 25c

SHORT WAVE BEGINNERS BOOK

Easy to understand. Explains fundamentals, radio symbols, how to wind coils and construct S.W. sets, and includes a valuable tube and wire chart.

B5244. YOUR PRICE 25c

TELEVISION WITH CATHODE RAYS

Practically a complete course of instruction in modern television methods. Explains fully the cathode-ray tube and its application to television, written clearly and understandably for the beginner and engineer alike. Appendix explains mathematical language. Price includes supplements free for one year.

B2168. YOUR PRICE \$2.75

RADIO AMATEUR COURSE

An essential volume for beginners. This big, new complete book describes in simple language the fundamental principles of short wave transmitters and receivers. Many diagrams and illustrations. Chapters on Construction, Learning Code, Construction, Learning Code, Amplifiers, etc.

B5249. NET 50c

HAMMARLUND S. W. MANUAL

Gives complete constructional details for building 13 of the most popular non-rest Short Wave receivers. Includes ham and 100-Meter designs. 70 illustrations. 32 pages.

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LATEST A.R.R.L. BOOKS FOR THE AMATEUR

These authoritative books are selected from the Technical Series compiled and edited by the American Radio Relay League. They are the outstanding books for the Amateur.

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The established guide of practical Amateurs. All the accumulated knowledge of Amateur Radio is considered and described in detail in the 536 pages of this book. Has many new chapters; all former material has been re-written and brought up-to-date. Includes new data on vacuum tubes, new how-to-make-receiver design chapter; transmitter design section; latest dose on keying methods, radio telephony, ultra-high frequencies, antenna design, power supplies, cable ray, etc. Also discusses operating practices and field organization. Has valuable data appendix containing "Q" code, abbreviations, time chart, DX Tables, beam regulations, electrical characteristics formulae, etc. Fully illustrated. Size, 6 1/2 x 9 1/2. Shipping weight, 3 1/2 lbs.

\$1.00



B2175. YOUR PRICE

LIGHTNING CALCULATORS

Ingenious device which rapidly and accurately solve mathematical problems encountered in radio and allied work. Give direct answers to the most difficult and trouble-saver for engineers, servicemen, amateurs and experimenters.

RADIO CALCULATOR

B2180. Type A. Solves problems involving frequency, inductance and capacity in any circuit from high-powered transmitters to simple receivers.

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Bound in heavy paper covers. "Sextile" spiral binding. Contain 30 log pages, 30 blank reference notes, list of "Q" signals, message number sheet, and a sheet of cross-section paper for charts, etc.

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A necessary item for every Amateur "Shack." Size, 20 x 40. Shows heavy map of the United States, Country, Prefixes, WAC and World Time Zones, U. S. Districts, etc. The only world map made expressly for the Amateurs. Made by Hand-McNally in six colors.

B2171. NET \$1.25

RADIOGRAM BLANKS

Newly designed message blanks to lend direction to your radiograms, strictly timed, with space for all required information.

B2179. Pad of 100 sheets. NET 25c

POPULAR FRANK C. JONES BOOKS

JONES RADIO HANDBOOK—LATEST EDITION

Formerly the "Radio" Handbook, this new third edition is the greatest handbook ever published. Completely new, greatly enlarged, and entirely revised from cover to cover. Contains a wealth of valuable information never before published on the newest and latest in short wave transmitters, receivers, accessories, theory and practice. Nineteen chapters, each a complete treatise on one particular branch of radio. Has complete chapter on Television and Television equipment for the Amateur. Tells how to build everything from a one tube receiver to the most complex 1 KW transmitter. Other chapters cover thoroughly elementary A.C. and D.C. theory, Service and Test equipment, Radio Theory, Antenna, Tube characteristics, etc. Hundreds of illustrations, diagrams and photographs. Includes a coupon which entitles you to receive valuable supplement. Written in simple, easy-to-understand language. Every Amateur, Serviceman and Experimenter should have a copy of this great book. 456 pages. Wt. 2 lbs.

\$1.50

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New fourth edition, Formerly "5 Meter Telephony." Written by Frank Jones and crammed full of newsy U.I.F. information never before published. Covers receiving and transmitting equipment from microwaves down to the "Micro-Waves." Over 150 illustrations.

B7076. NET 50c

JONES ANTENNA HANDBOOK

This book gives the answers to the "How and Why" of receiving and transmitting antenna systems. Describes every known type of antenna system, including the vertical, the horizontal and "beam" antennas, etc.

B7075. NET 50c

RADIO AMATEURS LICENSE MANUAL

Tells you clearly, simply and exactly what is required to secure an Amateur License. Complete information on how to apply for a license and how to pass the examination. Contains regulations governing operation of two-batch-licensed stations. Question and Answer section thoroughly covers all probable questions likely to be asked at every examination.

B2177. YOUR PRICE 25c



HOW TO BECOME A RADIO AMATEUR

The standard guide for the prospective amateur. Describes the construction and operation of a simple inexpensive transmitter and receiver. Contains other information of extreme value for those who wish to enter this fascinating field. Describes steps in obtaining a license.

B2176—NET 25c

200 METERS AND DOWN

The book that every Amateur wants. A complete history of Amateur Communication from the dawn of radio to the present. A fascinating story of progress, written under the supervision of the ARRL, accurate in every detail. De Luxe edition bound in blue cloth.

B2173. Standard Edition \$1.00

B2172. De Luxe Edition \$2.00



RADIO AMATEUR NEWCOMER

The most complete beginners' book ever written. Tells how to become an Amateur, how to build beginners' receivers and transmitters, model Amateur stations; how to learn code, receive licenses and answers to chapters on FCC regulations.

B7073. NET 25c

AMATEUR RADIOTELEPHONY

Here is the book that "phone" operators have been waiting for. Tells how to build any kind of phone transmitter. Includes all facets of radiotelephony, including questions and answers for passing Class A Amateur Phone exam.

B7078. YOUR PRICE 75c

TELEPHONES, HEADPHONES Accessories

ACME FEATHERWEIGHT HEADPHONES



A VALUE LEADER

An exceptional value. Sensitive and practical for every head set use. Light as a feather. Each unit weighs less than 1½ ounces. Total weight only five ounces. Well-made and durable.

Sensitive to even the faintest signals. Recommended especially for Amateurs, Short Wave fans, hard-of-hearing, and multiple phone installations. Case is made of non-breakable aluminum with light tension flexible headband. Cord is 4½ foot braided covered. A highly sensitive and practical headpiece set at a remarkably low cost.

B5250. 4,000 Ohms. (2,000 per phone.) **\$120**
YOUR PRICE
B5251. 2,000 Ohms. (1,000 per phone.) **95c**
YOUR PRICE

SINGLE ACME HEADSETS

A lightweight single unit phone with head-band exactly as described above. Can be worn with comfort for hours. With cord.

B5278. 2,000 Ohms. **70c**
YOUR PRICE
B5279. 1,600 Ohms. **59c**
YOUR PRICE

DIAPHRAGMS FOR ABOVE

B5252. For Acme Featherweight phones. **NET EACH**..... **5c**

BRANDES PHONES

Well-known name-type phones of excellent quality. Extremely sensitive; respond to the faintest signal. Made of light-weight aluminum, with unbreakable caps. A favorite for many years with Amateurs, Experimenters, Short-Wave Listeners, Broadcast DX enthusiasts, etc. Strong, sturdy construction; will stand up under years of continuous service.

POPULAR WITH AMATEURS

Adjustable headband is scientifically shaped; can be worn for hours without fatigue. Has lock-out for permanent setting. Equipped with 5 foot "Shielded Radio Frequency" cord, which will not unravel. Standard phone has will fit any phone plug. Phones measure 2½" across for maximum ear comfort. Resistance is 2400 ohms per pair. Wt., 2 lbs.
B2800. **\$159**
YOUR PRICE

FROST PHONES

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. Have been sold for many years to discriminating amateurs. With cords. Ship- ping weight, 2 lbs.
B5251. 3,000 OHMS. **\$165**
YOUR PRICE
B5250. 2,000 OHMS. **\$148**
YOUR PRICE

HEADPHONE CORDS

B3254. Cord...ally standard length double headpiece cords. Cotton-covered. **33c**
YOUR PRICE

REAL PHONES—NEW DUPLEX TELEPHONES



ACCESSORIES

The only accessories required, for either indoor or outdoor use, are listed below.
B925. Dry Cells for use with Realphones. **NET. EACH**..... **21c**
B1984. 100 feet 3 conductor connector cable for outdoor use. **\$1.71**
NET.
B1985. 100 feet cable for indoor use. **\$1.37**
NET.

MULTIPLE PHONE SYSTEMS FOR ALL PURPOSES
 WE CAN SUPPLY multiple telephone systems for all types of installations. Write for literature on Serv-U-Phone systems having from 2 to 10 stations, including common-talk, selective and super-selective types. We are also prepared to quote attractive prices on switchboard and amplifier installations suitable for private installations in hotels, or apartment houses. Write, telling us your needs, and we will quote promptly.



TRIMM HIGH QUALITY FEATHERWEIGHT PHONES

Extremely compact. Weight is only 4 ounces. Noted for unusual sensitivity and comfort. Bakelite shells and caps, with forced magnets of best grade Cobalt steel. Spring steel head-band is adjustable. Diameter only 2½". Custom-built for Amateurs, Aircraft, Hard-of-hearing, etc. The standard phones are ideal for general purpose work. The Special (2,000 ohms impedance) phones are designed especially for Short Wave work and have a 30% Cobalt steel magnet.
B5270. 4,000 Ohms Standard. **\$588**
B5271. 2,400 Ohms Special.
List. \$60. EACH PAIR.....

SINGLE UNIT FEATHERWEIGHT PHONES

HEADBAND STYLE
 With adjustable steel headband. Ideal for group hearing-aid installations in churches, theatres, etc. 2,000 OHMS.
B5273. **List, \$6.25. NET... \$3.67**
LORGNETTE HANDLE
 Single unit phone as above, but with lorgnette handle. Particularly suited for group hearing-aid systems in churches. Handle extends 14 inches. 2,000 OHMS.
B5275. **List, \$6.75. NET. \$3.97**

TRIMM PROFESSIONAL PHONES

A high quality standard type headpiece, adjustable for battery, crystal and short-wave sets, as well as for multiple installations. Has bakelite case and cap. Perfectly matched units assure long life. With cords. Cord terminals are inside case.
B5278. 3,000 OHMS. **\$220**
B5277. 4,000 OHMS.

We can supply Trimm Featherweight phones in any special resistance desired, from 1 ohm to 2400 ohms, each unit, at an extra cost. Enclose deposit with order.

New two-way French style telephones that operate on dry cell batteries; compact, attractive, modern. Installed in office, factories, public places, restaurants, stores, and other applications too numerous to mention. Full instructions for rapid connection are included.

PRACTICAL—USEFUL

Practical at home or in business. Especially convenient as room-to-room or house-to-parade telephones. Installed in pairs or office, factories, public places, restaurants, stores, and other applications too numerous to mention. Full instructions for rapid connection are included.

COMPLETE SETS

Complete set consists of 2 headpieces with buzzers and 35 feet of wire. Additional wiring may be added. Available in four colors.

B1980. Black. **PER SET OF 2**
B1981. Green. **YOUR NET PRICE**
B1982. Silver. **\$4.12**
B1983. Chinese Red.
 Lots of 2 Sets, Each. **\$3.82.**

CANNON BALL MASTER HEADSETS

An improved, high resistance type headset of excellent quality. Ideal for DX work. Heavy bar magnet assures maximum sensitivity. Terminals are inside case. Has adjustable headband and 4½' cord.

B2805. 5,000 OHMS. **\$2.35**
YOUR PRICE
B2804. 3,000 OHMS. **\$1.85**
YOUR PRICE

CAPS AND DIAPHRAGMS

B2801. CAPS. **18c**
YOUR PRICE, EACH
B2802. DIAPHRAGMS. **5c**
YOUR PRICE, EACH

BRUSH CRYSTAL HEADPHONES

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 applications. When used in circuits carrying direct current a small blocking condenser is required. Weight including band and cord only six ounces.
B1200. **List, \$9.00. \$529**
YOUR PRICE

Single Unit Brush Crystal Phones
B1201. Single phone with metal headpiece. **List, \$5.00. NET... \$2.94**
B1202. Single phone with lorgnette handle. **List, \$6.50. NET. \$3.82**

HEARING-AID CONTROL BOX

Designed for use in multiple hearing-aid installations in schools, theatres, churches, etc. Permits adjustment of volume to suit individual hard-of-hearing needs. Re-resistance, 10,000 ohms. Small and compact only 2½" x 3" x 1½". Corners and edges smoothly rounded to prevent scratching or tearing clothing. Available in either ivory, suitable for theatres, or brown crystal for churches, schools, etc. (Use Knight 8 and 18 watt High Gain Amplifiers for suitable group-hearing use.)
B5280. Brown Crystal Finish. **\$191**
B5282. Ivory Finish.
YOUR PRICE, EACH BOX.....

HEADPHONES CRYSTAL SETS Accessories

AMERICAN BELL PHONES



These unusually sensitive and efficient headphones are the product of one of America's foremost manufacturers, and are noted for fidelity and clarity of tone. Their aluminum shells and light aluminum caps make them light in weight; may be worn for hours without fatigue to the listener. The fine magnet gives added sensitivity. D. X. fans can be delighted with the fine reception made possible with these quality headphones. Shpg. wt., 2 lbs.

WITH METAL CAPS
B2807.
 3000 Ohms.
YOUR PRICE.....\$1.25
B2806.
 2000 Ohms.
YOUR PRICE.....97c

3000 OHMS WITH BAKKELITE CAPS

The same sensitive and efficient headphones as above, but equipped with black bakelite caps instead of aluminum. A real value in a high-quality sensitive headphone.

B2812. YOUR PRICE.....\$1.32

DIAPHRAGMS

B2809.
YOUR PRICE, EACH.....5c

EXTRA ALUMINUM CAPS

B2808.
PRICE, EACH.....12c

AMERICAN BELL SINGLE HEADPHONE



A comfortable dependable single unit headphone which is easy to wear. Has a single spring steel headband. Unit is of tubular construction. May be used on any set equipped for phones; ideal for multiple hearing-aid installations. Complete with cord. An outstanding headphone value.

B2813.
 1000 ohms.
YOUR PRICE.....66c | **B2814.**
 1500 ohms.
YOUR PRICE.....79c

CRYSTALS & CRYSTAL DETECTORS

OPEN TYPE DETECTOR



Universal Joint on swivel arm provides quick, accurate adjustment on any point of the very sensitive crystal. Handoms polished metal finish. Complete with crystals.

tal. Wt., 8 oz.
B7082.
 10 for \$1.10.
Each.....12c

FIXED CRYSTAL DETECTOR



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.

B7063.
 10 for \$1.00.
NET EACH.....43c

METER TESTED CRYSTAL



These crystals are tested in laboratory on very sensitive meters. Crystal is of genuine Galena composition. Fit all crystal cups.
\$4.150.
YOUR PRICE.....19c

SENSITIVE MOUNTED CRYSTAL



Carefully tested mounted crystal. Sensitive galena. Fits all standard crystal cups.
\$4.151. 10 for 55c.
NET EACH.....6c

GLASS ENCLOSED DETECTOR



A dust-proof glass enclosed detector complete with super-sensitive crystal. Standard in 90% of the crystal sets made. A fast selling item. Shpg. wt., 8 oz.

B7081.
YOUR PRICE.....22c

FEDERAL FIXED DETECTOR



Will give more sensitivity to crystal sets on radio circuits. Sensitivity permanently fixed. Mounted in small bakelite case with screw connectors. Pre-tested.
\$4.154.
List \$1.00.
NET.....53c

CAT-WHISKERS

Set of three. Correctly designed and made of the finest quality wire.

\$4.152.
NET.....9c

COMFORT KARPHONE CUSHIONS



A real necessity for those who wear headphones constantly. Makes them comfortable and easy to wear. Made of soft spongy rubber. Sanitary and practical. Will fit all types of phones.

B2810. YOUR PRICE PER PAIR.....22c
B2811. YOUR PRICE PER PAIR.....\$1.95

PHILMORE CRYSTAL SETS

THE SELECTIVE



Designed to give most efficient results and possessing unusual selectivity. Built with a tapped coil matched with a 4000 Mc. variable condenser. The reception on this set is loud and clear. It is exceptionally sensitive and very easy to tune. It has double connection points making possible the use of two pairs of headphones at one time. The next thing to a tube set at the lowest possible price. Contained in a crackle finish cabinet with a panel of modernistic design. Shipping weight, 3 lbs.

B7063.
List \$5.00. NET.....\$2.35

THE BLACKBIRD

The "Blackbird" is a first quality crystal set presented at the lowest possible price. It requires no tubes or batteries and delivers programs loud and clear without distortion. Housed in crystalline finish metal cabinet with attractive front panel. It employs a front-type glass-enclosed super-sensitive crystal detector making possible the best of results. A fast seller everywhere. Accessories of good quality are listed below. Shpg. wt., 3 lbs.

B7055.
List \$5.00.
NET.....\$1.62



LITTLE GIANT



A well-controlled crystal set which will give unlimited service. Offers the utmost in entertainment on local stations with the extensive radio programs now being broadcast from stations all over the country. A sensitive crystal is enclosed in a dustproof glass casing. Entire assembly mounted in bakelite case. Shpg. wt., 2 lbs.

B7061.
List \$1.50. NET.....69c

CRYSTAL SET ACCESSORY KIT

Complete equipment for operating any of the above crystal sets. Consists of a set of good quality headphones, aerial and ground wire, lead-in strip, lightning arrester, insulation and all necessary parts for a perfect aerial installation. Shpg. wt., 4 lbs.

B7064. YOUR PRICE.....\$1.39

PHILMORE-1-2-3 TUBE SETS

Efficiently designed battery operated sets in the popular type 30 and 31 Tubes. Economical to operate, batteries last twice as long. These new circuits embody the use of a variable condenser and spider web coil assuring near tuning, selectivity, sensitivity and plenty of volume.

Shpg. wt., 10 lbs.
B7058. 1 TUBE SET.....\$4.03
List \$2.50. YOUR PRICE.....\$4.03
B7056. 2 TUBE SET.....\$5.20
List \$9.00. YOUR PRICE.....\$5.20
B7067. 3 TUBE SET.....\$7.35
List \$13.50. YOUR PRICE.....\$7.35



Above sets include tubes, antennas and headphones. Accessories are listed below.

TUBE AND BATTERY EQUIPMENT

B7068. For 1 Tube Set. Consists of one type 30 tube, one 45 Volt "B" Battery and one 1/2 Volt Dry Cell. Wt., 6 lbs.

NET.....\$1.59

B7069. For 2 Tube Set. Consists of one type 30 tube, one 45 Volt "B" Battery and two 1/2 Volt Dry Cells. Wt., 16 lbs.

NET.....\$2.20

B7060. For 3 Tube Set. Consists of two type 30 tubes, one type 31 tube, one 2 1/2 Volt and two 45 Volt "B" Batteries, and two 1/2 Volt Dry Cells. Shpg. wt., 32 lbs.

NET.....\$4.19

PHILMORE PORTABLE BATTERY SET



A fine new portable receiver that is light, easy to handle, and a splendid performer. Covers the complete broadcast band. Single tuning control makes it easy to tune. Uses a specially designed high "Q" coil system for maximum sensitivity and selectivity. Has tapped antenna setting for maximum pickup selection. Tubes used draw less than one milliamperes for economical battery life. Batteries required: 2 small 1 1/2 volt dry cells; 3 small, 1/2 volt "C" batteries. Uses one type 30 and one type 49 tube. Fibre carrying case complete. 1/4, 1/2, 3/4, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

B7066. List \$11.00.
YOUR PRICE.....\$5.95

COMPLETE ACCESSORY KIT

Includes: 1 type 30 and 1 type 49 tubes, complete set of five Burgess batteries, 1 set of sensitive headphones and 5 ft. of aerial wire. These items all fit in same case with the set.

B7066. YOUR PRICE.....\$3.59

It's Easy to Order From Allied



OUR TERMS

Our very low prices are made possible because we use the most economical merchandising methods. We buy for cash and sell for cash, passing the resulting savings on to you. Our terms are cash with order or C.O.D. (with the exception of P.A. equipment, amateur receivers, or test instruments for which time payments are specifically offered in this catalog). We ship C.O.D. if so desired; new customers are requested to include 20% remittance with order when specifying C.O.D. shipment. All quotations in this catalog are net, f.o.b. Chicago, and are necessarily subject to change at any time without notice.

2% FREIGHT ALLOWANCE

Don't split your orders! Take advantage of our 2% **Transportation Allowance** on all orders for \$25.00 or more. This allowance applies to shipments made anywhere in the United States on all radio merchandise shown in this catalog. (National Co. equipment is not included.) Build up your order to \$25.00 or more to secure this extra saving.

ALL ORDERS FILLED. We place no restriction on the amount of your order. Whether it is large or small, we give you the benefit of our best service always. It's wise to buy where you know you will be consistently better served.

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You save by ordering merchandise sent by freight where rapid shipment is not essential and merchandise selected weighs approximately 100 pounds or over. The minimum freight charge is for 100 pounds. If you have a freight agent, do not send shipping charges. If you are on a prepaid station, please send funds to pay charges in advance. Any surplus will be promptly refunded. Charges are the same whether prepaid or collect. If there is no freight station at your location, please be sure to specify your nearest shipping point.

It's Easy to Order. Use our convenient order blanks which are found in this catalog. Write your name and address in full and specify how shipment is to be made: by Express, Parcel Post, or Freight. List the items you want—one to a line—making sure to give the correct catalog number for each item. Then, total your order and make your remittance large enough to cover both cost of merchandise and shipping charges (unless C. O. D. shipment is requested). Additional order blanks and envelopes are packed with each order and will also be sent on request. Note: If you run out of order blanks, simply use a plain sheet of paper, following the usual form.

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The table immediately below will help you to compute parcel post charges to your address. If you are in doubt about your zone, simply ask your postmaster. Save C.O.D. charges by sending enough money to cover postage. Any surplus will be promptly refunded. If remittance does not cover postage, shipment will be made C.O.D. for the balance. For your protection all our parcel post shipments are insured. Allow for insurance at the following rates:

Up to \$5.00	5c
\$5.00 to \$25.00	10c
\$25.00 to \$50.00	15c
\$50.00 to \$100.00	25c

EXPRESS SHIPMENTS

Radio sets, Windchargers, storage batteries and any items in this catalog which we have indicated as not mailable, should be shipped by express or freight. In general, it is best to send radios and bulky merchandise by express rather than by parcel post. This assures quick shipment and safe delivery. If there is no express agent at your location, please be sure to specify your nearest express office. See table below to help you in estimating approximate charges to your location. (All express shipments are insured—**ALLIED** packing is careful and secure—every shipment reaches you in perfect condition.)

HOW TO ESTIMATE PARCEL POST RATES

Packages Under 8 Ounces, Allow 1/2c Each 2 Ounces

WEIGHT IN POUNDS	ZONES							
	First, Up to 50 MILES	Second, 50 to 150 MILES	Third, 150 to 300 MILES	Fourth, 300 to 600 MILES	Fifth, 600 to 1000 MILES	Sixth, 1000 to 1400 MILES	Seventh, 1400 to 1800 MILES	Eighth, Over 1800 MILES
1	8c	8c	9c	10c	11c	12c	14c	15c
2	11c	11c	12c	13c	14c	15c	17c	18c
3	12c	12c	13c	14c	15c	16c	18c	19c
4	13c	13c	14c	15c	16c	17c	19c	20c
5	14c	14c	15c	16c	17c	18c	20c	21c
6	15c	15c	16c	17c	18c	19c	21c	22c
7	16c	16c	17c	18c	19c	20c	22c	23c
8	17c	17c	18c	19c	20c	21c	23c	24c
9	18c	18c	19c	20c	21c	22c	24c	25c
10	19c	19c	20c	21c	22c	23c	25c	26c
11	20c	20c	21c	22c	23c	24c	26c	27c
12	21c	21c	22c	23c	24c	25c	27c	28c
13	22c	22c	23c	24c	25c	26c	28c	29c
14	23c	23c	24c	25c	26c	27c	29c	30c
15	24c	24c	25c	26c	27c	28c	30c	31c
16	25c	25c	26c	27c	28c	29c	31c	32c
17	26c	26c	27c	28c	29c	30c	32c	33c
18	27c	27c	28c	29c	30c	31c	33c	34c
19	28c	28c	29c	30c	31c	32c	34c	35c
20	29c	29c	30c	31c	32c	33c	35c	36c
For Each Additional Pound Add	1c	1c	2c	3½c	5c	7c	9c	11c

HOW TO ESTIMATE EXPRESS CHARGES

Weight Not More Than	FOR DISTANCES OF							
	50 Mi.	150 Mi.	300 Mi.	500 Mi.	750 Mi.	1000 Mi.	1500 Mi.	2000 Mi.
5 Lbs.	\$0.39	\$0.41	\$0.45	\$0.48	\$0.52	\$0.56	\$0.66	\$0.76
10 Lbs.	.43	.48	.56	.62	.69	.76	.98	1.16
15 Lbs.	.47	.54	.66	.75	.86	.97	1.29	1.57
20 Lbs.	.51	.61	.77	.89	1.03	1.18	1.61	1.98
25 Lbs.	.55	.67	.87	1.02	1.20	1.35	1.93	2.39
35 Lbs.	.63	.80	1.08	1.29	1.54	1.79	2.56	3.20
45 Lbs.	.71	.93	1.29	1.56	1.88	2.21	3.19	4.02
55 Lbs.	.79	1.06	1.50	1.83	2.22	2.62	3.82	4.83
75 Lbs.	.95	1.32	1.92	2.37	2.90	3.44	5.08	6.46
95 Lbs.	1.11	1.58	2.34	2.91	3.58	4.26	6.33	8.09
For Each 100 Lb.	1.15	1.65	2.45	3.05	3.75	4.47	6.65	8.50

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We enjoy a large Overseas Trade and cordially invite Export correspondence and business. Terms: cash with order or payment in New York or Chicago against documents. All catalog quotations are net, f.o.b. Chicago—export packing included at no extra charge. Overseas Parcel Post Shipments require remittance in full, including postage charges. Special care in packing and handling is accorded all Export Orders. Competent attention by Export Specialists is always assured. Take advantage of our consolidated rates which permits the purchase of all radio equipment from one single source and results in tremendous economies in handling and shipping costs. We stock all standard lines of high quality radio merchandise and are ready to serve you promptly and carefully. We are Radio Supply Headquarters to the World and are able to supply any export market with radio receivers, radio parts, sound equipment, etc., to meet every conceivable requirement.

LOW-COST BATTERY RADIOS

America's FINEST Knight 5 TUBE BATTERY SUPERHET

TUNES 175-550 METERS

- Newest 4 1/2" Dial
- Tunes Police Calls
- Low-Drain Tubes
- P.M. Speaker
- A.V.C. Action
- Has Battery Space
- A Dependable Performer. A superb new farm radio offering a combination of powerful reception, real economy in operation, sharp selectivity, and rich life-like tone. This Knight 5-Tube 2-Volt Battery-operated Superhet incorporates the newest battery features. Tuning range covers 175 to 550 Meters for dependable reception of American standard Broadcast stations plus upper Police channels. New large, easy-to-read, gold-faced dial is clearly calibrated in kilocycles. Five of the newest low-drain tubes conserve battery energy yet provide for strong reception. A full-sized 6" newly-developed alloy P.M. dynamic speaker assures flawless tone. Has Automatic Volume Control for uniform volume.

Attractive Cabinet. The new lay-down cabinet illustrated combines graceful beauty with perfect utility. Measures 21" wide, 11 1/2" deep, 12" high; has space to accommodate all batteries and eliminate unsightly, inconvenient trailing wires. Cabinet is built of choice, pleasingly grained walnut in two-tone effect.

Beautiful Tone. Rich, faithful tone is an outstanding feature of the Knight 5 Battery Superhet. Full-bodied, brilliant and life-like—it will meet the demands of today's wide-awake battery radio purchasers.

5 Illustrated Values. The Knight 5-Tube Battery Superhet in table cabinet as illustrated above, complete with speaker and R.C.A. Tubes. Less batteries. Shpg. wt. 23 lbs. Code: ROUTE.

\$17.75

1-1055B Retail Value, \$37.50
YOUR NET PRICE, \$22.95

Knight 6 TUBE BATTERY SUPERHET

TUNES 2 FULL WAVE BANDS

- 3 Band Utility
- Tone Control
- Full A.V.C. Action
- New 5 1/4" Dial
- Latest Tubes
- 6" P.M. Speaker
- Has Battery Space
- Low Drain

A wonderful value in a new powerful, low-priced economically-operated 6 Tube Farm Radio that is capable of strong reception, sharp selectivity, and true-to-life tone quality.

• **Tunes 2 Full Bands.** The 1938 Knight Battery 6 tunes from 49 to 145 Meters to bring in Short Wave, police, aviation and amateur signals, as well as thrilling foreign reception on the 49 meter band. The second band covers 175 to 550 Meters and tunes the upper police channels and all American and Canadian standard Broadcast programs. The Knight 6 has 3 band utility.

• **3 1/4" Edge-Lighted Dial.** Latest 1938 type; easy to tune; attractive in appearance. Has handsome gold face fully illuminated from sides. Two scales are indicated: the upper calibrated in kilocycles for standard Broadcast; the lower marked in megacycles for Short Wave.

• **6" Wavex Speaker.** The new Knight Battery 6 uses the latest type special alloy P.M. Dynamic speaker—the finest that can be used in a battery radio. Assures perfect reproduction of both voice and music at all volume levels.

• **Tone Control.** Continuously variable type—an extra value feature of the Knight 6. Adds to the tonal beauty of the receiver by permitting emphasis of bass or treble response to suit personal taste.

• **Attractive Table Model.** The 1938 Knight Battery 6 is beautifully presented in an attractive new upright style table model cabinet. The front and sides are of one-piece horizontally striped walnut rolled at each end. Size: 17 1/2" x 15 1/4" x 12". The cabinet has space to house all batteries.

• **5 Illustrated Values.** The Knight 6 Table Model Battery Superhet is offered in the table model cabinet pictured at right, complete with 6-inch P.M. Speaker and R.C.A. Tubes. Less batteries. Shpg. wt. 18 lbs. Code: SWING.

\$19.95

1-1055C Retail Value, \$42.50
YOUR PRICE \$24.35

1-10544 The Knight Battery 6 complete as above with 3-45 volt "B" and 1-Burgess Dry "A" Batteries. Shpg. wt. 22 lbs.
YOUR PRICE EACH \$24.35



OPERATES ON 3 VOLT DRY "A"— 2 VOLT STORAGE OR AIRCELL BATTERY

• **Low Drain.** The Knight 5 may be operated efficiently from either a 3 volt dry "A" battery, a 2 volt storage battery, or an Eveready Air Cell. When operated from a 3 volt "A" battery, drain is only 3 amps. from "A" battery and 14 M.A. from "B" battery. This means greatest economy in operation and makes the Knight 5 inexpensive to operate, by assuring maximum battery life. Our listing offers the Knight 5 for money-saving operation with a 3 volt dry "A" battery. (If ordered with Air Cell, add \$1.94 to B10589 set price; if ordered with 2 volt storage "A" battery, add \$1.37.) Battery cables have plug-in feature. You get the real advantage of fine radio efficiency coupled with remarkable economy when you use the Knight Battery 5.

• **Powerful New Circuit.** An advanced R.C.A. and Hazeltine licensed Superhet circuit is incorporated in the Knight 5. Designed for maximum efficiency and economy, it uses the latest low-drain tubes as follows: 1C6 as Mod.-Osc.; 34 as I.F.; 1F6 as Det.-A.V.C.—Audio; 33 as Power Output; 5E1 as Voltage Regulator. The 1F6 is a triple-purpose tube and does the work of 3 tubes so that the Knight 5 actually offers 7 tube power with 5 tube economy. Other circuit features include: heavy-duty tuning condenser; A.V.C. matched alloy P.M. dynamic speaker, rubber-cushioned chassis, no "C" battery required, etc. The 1938 Knight 5 circuit represents the last word in powerful and economical battery radio operation, assuring dependable, enjoyable reception always. (For efficient serial, see page 99.)



OPERATES ON 3 VOLT DRY "A"— 2 VOLT STORAGE OR AIR CELL BATTERY

• **Economical Operation.** The Knight 6 may be operated from either a 3 volt Dry "A" battery, a 2 Volt Storage Battery, or an Eveready Air Cell. When used with a 3 Volt "A" battery, drain is only 3 amps. We offer the 1938 Knight Battery 6 for economical operation from a 3 Volt Dry "A" battery. (If ordered with Air Cell, add \$1.94 to B10544 set price; if ordered with a 2 Volt Storage "A" battery, add \$1.37.) Only 3-45 Volt "B" batteries are needed. No "C" current is required. A truly economical performer.

• **Latest Battery Circuit.** Newest type tubes are used in the 1938 R.C.A. and Hazeltine licensed circuit as follows: 1A6 as Det.-Osc.; 1A4 as I.F. Amp.; 30 as Diode-Det.-A.V.C.; 1A4 as I. Audio; 1G5 as Power Output; 1B1 as Rectifier. Has full-arch Automatic Volume Control to maintain constant, uniform volume on all signals. The circuit of the new Knight Battery 6 actually develops 7 tube power and efficiency. No other battery radio at the price offers so much built-in quality and value.

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Dealers, Servicemen, Amateurs, Radio Builders—Keep your ALLIED CATALOG by your side always—it is Radio's Leading Supply Guide—bringing you bigger values and better profits.

**POWERFUL
ECONOMICAL**

R.C.A. & HAZELTINE LICENSED

WITH THE NEW
Automatic
SELECT-O-DIAL

- World-Wide Range
- With Ten's Control
- Full A.V.C. Action
- 6 1/2 Inch Dial
- Band Indicator
- New P.M. Speaker

\$29.45

Knight 7 TUBE 3 BAND BATTERY SUPERHET

**OPERATES ON 3 VOLT DRY "A"
— 2 VOLT STORAGE OR
AIR CELL BATTERY**

No other 7 tube battery radio has the remarkable operating economy of the 1938 *Knight Battery 7*. Only the very latest low-drain tubes are used in the powerful R.C.A. and Hazeltine licensed circuit for maximum efficiency with minimum battery drain. The *Knight 7* is designed to work from either a 3 Volt Dry "A," a 2 Volt Storage, or an Air Cell Battery—no "C" batteries are required—and only 3-45 Volt "B" batteries are used. Convenient plug-in connectors are provided on the battery cables for quick, easy connection. Our listing offers the *Knight 7* for money-saving operation with a 3 Volt Dry "A" battery. (If the *Knight Battery 7* is desired with Air Cell battery, add \$1.94. If desired with 2 Volt Storage battery, add \$1.17.) The economy of the *Knight 7*, plus its versatility and its valuable practical features assures you of bigger battery radio sales and better profits, coupled with real customer satisfaction.

A new peak in Farm Radio value is represented in this 1938 *Knight 7 Tube Battery Superhet*. We feel that in its receiver we bring to the rural market the fullest measure of performing power and ability, outstanding tone quality and economical operation—plus new features of outstanding practicability and value. You won't be able to beat the *Knight 7* for low-price and performance.

● **Automatic Tuning.** Used for the first time in low-cost battery radio. The new 1938 *Knight Automatic Select-o-Dial* tunes your favorite stations automatically, with true ease and precision. It provides buttons for as many as 10 of your favorite stations. Put your finger on the station button you want, swing the tuning wheel down to the stop point—and there's your station—tuned in instantly, perfectly! It's as easy as pointing a finger. Anyone, in any location, can adjust Automatic Tuning for any desired stations. And, of course, the *Knight Battery 7* can be tuned in the regular manner for all other domestic and foreign stations.

● **World-Wide Range.** The *Knight Battery 7* tunes 3 full bands for genuine All-Wave coverage. Tunes 16-52 Meters for world-wide Short Wave reception; 51-175 Meters for amateur, police, ship and aircraft signals; and 175-550 Meters for powerful American and Canadian standard broadcast reception. The regular full-vision airplane dial shows each band clearly and has a built-in wave-band indicator.

● **Powerful 1938 Circuit.** The advanced superheterodyne circuit used in the *Knight Battery 7* is licensed by R.C.A. and Hazeltine—your assurance of the latest practical developments. The newest R.C.A. low-drain

tubes are used as follows: 1C6 as Mod.-Osc.; 34 as I.F.; 1E6 as Det.-A.V.C.; 30 as Audio Driver; 2-30's as Power Output; 4-1 as Voltage Regulator. Battery drain is extremely low; only 420 Amps. on "A"; "B" battery drain is only 20 M.A.

● **Important Extra Features.** Personal Tone Control—allows emphasis of bass or treble as desired. Full A.V.C.—prevents fading; keeps volume uniform on all programs. Latest special alloy P.M. Dynamic speaker—reproduces all programs clearly and faithfully, developing tone quality comparable to that of the finest electric city radios. Added features: heavy-duty rubber-floated tuning condenser; rubber-floated chassis; 6 tuned circuits on all bands.

● **Cabinet Holds Batteries.** The 1938 *Knight Battery 7* is presented in a handsome new laydown type cabinet of generous proportions and pleasing design. Top is of selected walnut; front face and sides are of one-piece horizontally-grained walnut in attractive two-toned finish. The cabinet measures 23x12x17", and has plenty of space to hold all batteries conveniently.

● **Table Model Complete.** The *Knight 7 Tube 3-Band Battery Superhet* is offered in laydown cabinet illustrated complete with 6-inch P.M. Dynamic Speaker and R.C.A. tubes. Less batteries. Shpg. wt., 28 lbs. Code: CLEAN.

B10590. Retail Value, \$62.50. **YOUR NET PRICE, \$29.45**

B10591. The *Knight 7 Tube Table Model* as described, complete with Burgess Dry "A" battery and 3-45 Volt "B" batteries. Shpg. wt., 66 lbs. **YOUR NET PRICE, \$34.65**

KNIGHT 7 TUBE CONSOLE MODEL

The *Knight Battery Superhet* is also available in the beautiful new console shown at left. Instrument panel is of butt walnut, with contrastingly-curved wood pilasters. Size: 38x21 1/2 x 11 1/2". Supplied complete with all features described above, including *Automatic Select-o-Dial*, P.M. Dynamic Speaker and R.C.A. tubes. Less batteries. Shpg. wt., 50 lbs. Code: PRIZE. **\$39.75**

B10592. Retail Value, \$82.50. **YOUR NET PRICE, \$44.95**

B10593. The *Knight 7 Console Model* as described, complete with Burgess Dry "A" battery and 3-45 Volt "B" batteries. Shpg. wt., 88 lbs. **YOUR NET PRICE, \$44.95**

7 TUBE CHASSIS MODEL

The 1938 *Knight Battery 7* chassis makes an excellent replacement for obsolete receivers. Measures 11 1/2 x 8 1/2". Equipped with Burgess P.M. Dynamic Speaker. Includes *Select-o-Dial* mechanism and escutcheon (8" in diameter). Complete with R.C.A. tubes. Less batteries. Shipping weight, 13 lbs. Code: SHARE.

B10595. Retail Value, \$57.50. **YOUR NET PRICE, \$27.35**

B10596. The *Knight 7 Battery Chassis* as described, complete with Burgess Dry "A" battery and 3-45 Volt "B" batteries. Shpg. wt., 50 lbs. **YOUR NET PRICE, \$32.55**

(For efficient aerial, see page 99.)



Knight 6 TUBE AC-DC

Exquisite Molded Plastic Models
TUNES 43-143 AND 175-555 METERS

Completely new! From its advanced feature-packed circuit to its ultra-modern plastic cabinet, this 1938 Knight 2½ Band AC-DC Superhet has been designed and built to give enjoyable and powerful AC-DC performance. Equal in results to many 7 and 8 tube sets.

• **Actual 3 Band Efficiency.** The new Knight 6 AC-DC Superhet tunes from 43 to 143 Meters for excellent coverage of Short-Wave Amateur, police and aviation calls, as well as the popular and thrilling 49 meter band for foreign stations; and from 175 to 555 Meters for long-distance standard American and Canadian Broadcast programs. Gives actual 3 band efficiency at a truly low price.

• **Plays Anywhere.** The Knight 6 is the ideal AC-DC receiver. Plays equally well on 110 volts AC or DC, 40 or 60 cycles, and may also be used on 220 volts with adapter listed below. The Knight AC-DC 6 is ideal as a personal or "spare" receiver.

• **A Powerful Receiver.** The Knight AC-DC 6 utilizes the new powerful 25B6G Beam Power tube which develops a large output never before attainable in AC-DC sets. This strong volume is har. tied without distortion by the full 5-inch Electro-dynamic speaker.

• **Splendid New Features.** The Knight 6 has a built-in antenna for added convenience; a novel illuminated dial, which can be tuned easily with the cabinet in either "laydown" or "upright" positions (see illustrations); Automatic Volume Control for uniform volume maintenance; special high-gain antenna coil for added sensitivity; latest type tubes used as follows: 6A7 as Det.-Osc.; 6D6 as I.F. Amp.; 75 as triple-purpose 2nd Det.-A.V.C.-1st Audio; 25B6G as Beam Power Output; 25Z5 as Rectifier; L49BJ as voltage regulator.

• **Beautiful Plastic Cabinets.** The smart new plastic cabinet of the Knight 6 AC-DC is especially attractive and practical. It can be used and played in either laydown or upright position to suit any taste or place. Available in black or ivory. Features a pleasing modern design with handsome harmonizing chromium grille bars on the black model, and gold bars on the ivory. Size: 11x7x6 3/4".

• **Set Complete.** Order several of these outstanding 1938 compact sets today—and watch them move at a real profit! The Knight 6 Tube 2½ Band AC-DC Superhet for 110 volts AC-DC, 40-60 cycles, complete with Raytheon tubes. Supp. wt., 10 lbs.

B10530, Black. List, \$34.50. **NET PRICE EACH, \$16.45.**
YOUR PRICE, LOTS OF 3, EACH..... \$15.45

B10531, White. List, \$37.50. **NET PRICE EACH, \$17.95.**
YOUR PRICE, LOTS OF 3, EACH..... \$16.95

B9145, 220 Volt Adapter. NET..... 65c

the **DU-ETTE.**
Something New!

The Knight 6 AC-DC has a splendid dual utility. It may be played as upright (see right) or as laydown (see below). It is beautiful and practical in either position. Adaptable to any setting.

- 3 BAND UTILITY
- BEAM POWER OUTPUT
- DYNAMIC SPEAKER
- FULL A.V.C. ACTION
- BUILT-IN ANTENNA



R. C. A. & HAZELTINE LICENSED



Knight 5 TUBE A.C. SUPERHET

AN ALLIED 1938 *feature value!!!*
TUNES 175 to 555 METERS

An entirely new 1938 Superhet radio with exclusive features, with outstanding power and with splendid tone quality—worth twice our amazingly low price. A real value leader in every sense of the word—lowest low for low volume sales.

• **Quick-Touch Dial.** A new 1938 tuning feature! The quick, effortless way to locate your favorite stations. Simply put your finger on the station name of your choice and tune in your program with a single easy movement. You can tune 12 of your favorite stations in this smooth, convenient way. Of course, you may tune all other stations by number in the regular manner, as you prefer.

• **Extra-Value Features:** You get all of the following in the 1938 Knight A.C. 5: Tone Control for added tonal enjoyment; permits emphasis of treble or bass as desired; Full A.V.C.—maintains constant volume on all programs; Five Inch Dynamic—one of the finest compact speakers made; handles all volume levels with uniform fidelity, achieving the most enjoyable tone possible in a five tube receiver; Litz-Wound Coils—found only in the better sets; makes for greater sensitivity and stability.

• **Large 4 1/2" Dial.** The large full-view dial used in the Knight A.C. 5 is easy to read and operate. Shows calibrations in kilocycles covering a range of 175 to 555 meters. Gives powerful standard Broadcast reception of American and Canadian stations and tunes many police calls. You can use the "Quick-Touch Dial" for your twelve favorite stations and the regular station selector for all others.

• **Latest Circuit.** The R.C.A. and Hazeltine licensed Superhet circuit of the Knight 5 uses the following tubes: 6A7 as Det.-Osc.; 6D6 as I.F. Amp.; 75 as triple-purpose 2nd Det.-A.V.C.-1st Audio; 41 as Power Output; 80 as Rectifier. These tubes attain remarkably high sensitivity and selectivity seldom found in a five tube radio.

• **Set Complete.** The Knight 5 Tube A.C. Superhet with "Quick-Touch Dial" is presented in a handsome new 1938 table model cabinet. Front face is of selected walnut; has pleasing flowing lines. Size: 14 1/2 x 8 1/2 x 7 1/4". Feature this remarkable value as your "price-leader." Its new tuning feature, its striking appearance, its pleasing performance and its low price will bring you big sales volume and profits. The Knight 5 A.C. Superhet is offered complete with Raytheon tubes for operation from 110 volts, 60 cycles A.C. Shpg. wt., 13 lbs. Code: IMAGE.

B10501. Retail Value, \$29.95.
NET PRICE EACH, \$13.95.
YOUR PRICE, LOTS OF 3, EACH..... \$13.25

with the new *QUICK-TOUCH* dial

- TONE CONTROL
- FULL A.V.C.
- 4 1/2 INCH DIAL
- DYNAMIC SPEAKER
- LITZ-WOUND COILS
- LATEST SUPERHET
- GETS POLICE CALLS

B10501. The 1938 Knight A.C. 5 Superhet complete in table model cabinet as illustrated, with Raytheon tubes. Retail Value, \$29.95. **NET EACH, \$13.95.**
YOUR PRICE, LOTS OF 3, EACH

\$13.25



R. C. A. & HAZELTINE LICENSED

Now! RADIO FROM 6 VOLTS D.C. OR 110 VOLTS A.C.

Knight 5 TUBE SUPERHET

TUNES 175-555 METERS

- Tone Control
- Full A.V.C.
- 4 1/4 Inch Dial
- 6" P.M. Speaker
- 6 Tuned Circuits
- Latest Tubes
- Big Power
- Police Calls

An entirely new and powerful 1938 Knight 5 Tube Universal Superhet which fills the long-felt demand for a trouble-proof versatile radio receiver designed for universal operation. This receiver is actually two radios in one, because it can be operated from a single 6 volt storage battery or from any 110 volt, 60 cycle A.C. outlet without requiring a change of any kind. You can use this fine performer on 6 volts in unwired places and then hook it up to 110 volts A.C. without adding anything at all to the set. You actually get two radios for the price of one. It's the first time you've been able to buy a universal radio receiver at so low a price. And look at these big features:

- **Powerful Circuit.** New type 1938 radio tubes are used in the R.C.A. and Hazeltine licensed circuit as follows: 6D8G as Osc. Mod.; 6S7G as I.F. Amp.; 6T7G as Det.-A.V.C.-1st. Audio; 41 as Audio Output; 6Z5YG as Rectifier. This circuit, using a triple-purpose tube actually develops 7 tube power and efficiency. The tube combination used is especially economical because the set is electrified from one tube.
- **Outstanding Features.** The Knight Universal 11A Volt-8 Volt Tube Superhet features Tone Control for personal emphasis of bass or treble as desired, adding to the natural tonal beauty of the receiver. Has Automatic Volume Control for uniform volume level maintenance and freedom from fading or blasting. 6 tuned circuits are incorporated for unusual performing stability. Further safety and efficiency are assured by the rubber-foated chassis and tuning condenser. These fine new features assure splendid performance no matter whether it is operated on the versatile Knight 5 from 6 volts D.C. or from 110 volts A.C.
- **Thrilling Tone.** Rich, faithful tone is another outstanding feature of the Knight Universal 5. Clear, perfect tone is provided in every volume level. The surprising volume of the receiver is richly handled by the latest type of 6-inch P.M. Dynamic Speaker which is perfectly matched to the circuit.
- **4 1/4-Inch Dial.** A full-visual large airplane dial is used in the Knight Universal 5 Tube Superhet. The tuning range is from 175 to 555 Meters, covering the complete standard Broadcast Band plus the popular ultra Police channels. Calibrations are in kilocycles in large legible characters. It's easy to tune this attractive, large dial.



R. C. A. & HAZELTINE LICENSED

IDEAL FOR FARM & CITY HOMES—SHIPS—TRAILERS—CAMPS, ETC.

The Knight Universal 5 Tube Superhet may be operated efficiently and economically from a 6 volt storage "A" battery in Autos, Trailers, Boats or Camps. It can also be taken wherever electric current is available and operated from 110 volts, 60 cycles A.C. Thus, the Knight 5 may be used from 6 volts in a summer cottage during the vacation season and then transferred to the city home for the winter, for operation from 110 volts A.C. Likewise, it can easily be transferred from car or boat to any 110 volt line. In trailers it may be used from a 6 volt battery on the road and from 110 volts A.C. when in camp. It is also ideal for use in rural communities contemplating the introduction of electric current lines. The Universal Knight 5 does not require any change when shifting over from 6 volts to 110 volts or vice versa. It is the most versatile and all-around convenient two-in-one radio made today.

• **Economical Operation.** An outstanding advantage of the Knight Universal 5 Tube Superhet is its economical operation when used from a 6 volt storage battery. (No "B" batteries are required.) The latest low-draw tubes assure maximum power and efficiency and at the same time operate with unusual economy.

• **Handsome New Cabinet.** One of 1938's finest table model cabinets has been chosen to house the new Knight Universal 5 Tube Superhet. This table model cabinet features "roll" top and bottom effect, with one-piece instrument panel and top of choice walnut wood. The speaker grille is attractively shaped and enhanced by three shaded overlay bars. Cornice leg mounts complete the graceful design. The cabinet measures 17" long, 10 1/2" high, 8" deep.

• **Set Complete.** The new 1938 Knight Universal 5 Tube Superhet is offered complete with 6-inch P.M. Dynamic Speaker and set of R.C.A. tubes. Designed for operation on 110 volts, 60 cycles A.C. or from a 6 volt storage "A" battery, without requiring any additional equipment or change. (See below for 6 Volt Storage Battery listing.) Suggested price, \$20 lbs. Code: BRIDE.

B10575.
Retail Value, \$36.50.
NET EACH, \$26.75.
YOUR PRICE, \$25.35
LOTS OF 3, EACH, \$25.35
B10015. 6 Volt Knight 45-plate Storage Battery. Suggested price, \$42 lbs.
YOUR NET PRICE, \$35.35

Knight 4 TUBE 6 VOLT BATTERY SUPERHET

COVERS 175-560 METERS

Now every home in unwired areas can enjoy powerful low-cost modern radio reception. Here is an amazing economical 1938 6 Volt Farm Radio designed for operation from a 6 volt storage battery. The 1938 Knight 4 will outperform larger battery sets both in power and in tonal excellence.

- **Practically Electric.** The Knight 4 offers the convenience and economy of the finest A.C. radios. A single 6 volt storage battery (and a 7 1/2" "C" battery) do all the work. The Knight 4 costs less to operate; requires only inexpensive occasional charging of the 6 volt "A" battery.
- **Powerful Circuit.** The latest developments in 6 volt radio design are incorporated in the R.C.A. and Hazeltine licensed Knight 4 circuit. The newest low-draw tubes are used as follows for actual 5 tube efficiency: 1C1 as Det.-A.V.C.-1st. Audio; 1D3 as I.F. Amp.; 2nd Det.-A.V.C.; 1G5 as Power Output. This fine circuit includes full-acting Automatic Volume Control which prevents fading and blasting.
- **Large 4 1/4-Inch Dial.** The latest airplane type full-visual dial is used in the Knight Battery 4. The tuning range covers 175 to 560 meters for dependable reception of American standard Broadcast stations plus ultra Police channels. Calibrations are in kilocycles.
- **6 1/4-Inch P.M. Speaker.** The latest type special-alloy P.M. Dynamic Speaker is used in the Knight Battery 4. This speaker reproduces the surprisingly large output of the circuit with clarity and in every volume level. The Knight 4 brings you at a money-saving price, the finest tone in battery radio—never before equaled in a four tube battery set.
- **Beautiful Cabinet.** A splendid new 1938 design is featured in the table model cabinet of the Knight Battery 4. The top and front are of one-piece roll-top construction, in choice vertically-grained walnut. The grille has three shaded overlay bars and a decorative base mount. Size: 18"x10"x9 1/2". The Knight 4 Tube 6 Volt Superhet must be seen and heard to be fully appreciated.



AMAZING ECONOMY

The Knight 4 Tube 6 Volt Superhet operates economically from a 6 volt storage battery and small 7 1/2" "C" battery. "B" batteries are done away with. Battery drain is so low it costs less than a penny a day to operate the 1938 Knight 4. The amazing economy and convenience of the Knight 4 makes it ideal for use in farm homes, summer camps, trailers, etc. Its powerful performance assures excellent results even in isolated locations.

• **The new 1938 Knight 4 Tube 6 Volt Superhet complete with 6 1/4" P.M. Dynamic Speaker and Raytheon tubes, set of batteries, Suggested price, \$20 lbs. Code: CLOV.**
B10570.
Retail Value, \$44.95.
YOUR NET PRICE, \$21.95
B10621. The Knight Battery 4 or complete set with 6 Volt Knight heavy-duty 45-plate Storage Battery and 6 Volt "C" battery. Suggested price, \$42 lbs.
YOUR NET PRICE, \$28.50

Knight 6 TUBE 6 VOLT BATTERY SUPERHET

**ALL-WAVE
WORLD-WIDE
Reception**

- Low Battery Drain
- Newest Airplane Dial
- Variable Tone Control
- Full A.V.C. Action
- Full 2 Watts Output
- P.M. Dynamic Speaker
- Tunes 3 Full Bands

\$29.95

RCA & HAZETINE LICENSED



Requires only One Battery for Complete Operation!

**COSTS PRACTICALLY NOTHING
TO OPERATE!**

This new Knight 6 Volt Set is amazingly economical to operate. Exceptionally low drain of only 1.85 amperes from a single 6 volt storage battery saves you from \$18 to \$25 a year on "B" and "C" battery costs alone. You save money because of ALLIED'S low price—you save, too, in operating costs.

For even greater savings on operating costs, we recommend the use of the Knight 6 Volt Battery Radio with an efficient Rurlpower Windcharger shown on the opposite page, or the Rurlpower gas engine units shown on page 150. Either will charge your battery at practically no cost.



Here is a new Knight 6 Volt Farm Radio that compares with the finest all-electric receivers—that brings modern 1938 radio performance to homes in unwired areas. Check these great features—only the Knight 6 has them all at so low a price.

• **Powerful All-Wave Reception.** The tuning range covers three full bands continuously from 16 to 555 meters. From 16 to 51 and 51 to 175 meters, you tune thrilling Short Wave foreign programs as well as interesting Amateur, Airplane, and Police calls. From 175 to 555 meters you tune all standard Broadcast American and Canadian programs.

• **Latest Circuit Features.** The newest developments from radio's leading laboratories are built into the advanced R.C.A. and Hazeltine Superhet circuit. New low-drain Raytheon tubes of octal design are used for extra efficiency: 6ST7 as R.F. Amp; 6XMS as Det.-Osc.; 6T7G as Diode Det.; A.V.C.—1st Audio; 30 as Driver; 19 as Class "B" Power Output; 30 as Bias Rectifier. These tubes have been selected to give the Knight 6 the power of many 8 and 9 tube radios—at a lower cost. The power output of 2 watts in Class "B" is a new achievement for battery radios—it means full strength reception on every program. Other features include: Full Automatic Volume Control; Variable Tone Control; long-life full-wave plug-in type vibrator to supply all "B" and "C" voltages; heavy-duty rubber-floated condenser; 11 tuned circuits; Litz-wound high-gain coils, etc.

• **Glorious Tone Quality.** Whether voice music, a speech or a full symphony, the Knight 6 Volt Farm Radio offers you superb tonal quality on all programs. This is attained by use of a full-sized P.M. latest

special alloy dynamic speaker. (6" speaker in table model—8" speaker in console and chassis models.)

• **A Real Battery Miser.** So economical is the Knight 6 to operate, that it is truly a "Battery Miser." Only a single 6 Volt storage battery is required—"B" and "C" batteries are not needed. Low-drain tubes are used throughout to assure maximum savings without any sacrifice in efficiency. Battery drain is only 1.85 amperes—in average use you save from \$18 to \$25 a year on "B" and "C" battery costs. That's real economy!

• **Easy to Tune.** A newly designed, edge-lighted airplane dial makes the Knight 6 Volt Battery Superhet exceptionally easy to tune. Dial measures 5 1/4 x 5 1/4" and all calibrations are large and clear. All bands are distinctly indicated for fullest convenience.

• **Handsome Table Model Cabinet.** A real beauty, of most modern design. Top, front and bottom are shaped from a single piece of selected, richly-grained walnut—hand-rubbed and highly polished. Dimensions: 19" long, 11 1/2" high, 10" deep.

• **Outstanding Value.** The Knight 6 Tube 6 Volt Battery Superhet in table model cabinet, complete with 6" P.M. dynamic speaker and Raytheon tubes. Supplied with 6 Volt battery. Shipping weight, 24 lbs.

Code: GREEN. **\$29.95**
B10545. Retail Value, \$62.50
YOUR NET PRICE.....
B10548. Set complete as described above, with Knight 6 Volt Heavy Duty 45 Plate Storage Battery. Shpg. wt. .66lbs **\$35.25**
NET.....

KNIGHT 6 TUBE 6 VOLT CONSOLE MODEL

The Knight 6 Tube 6 Volt All-Wave Battery Superhet, with all features described above, is also offered in the deluxe console cabinet illustrated left. The top and instrument panel are of selected "V" matched walnut. Fluted pilasters at each end blend harmoniously. Entire cabinet is hand-rubbed to a rich, lustrous finish. Dimensions: 41" x 23 1/4" x 12 1/4". Console model includes 8" P.M. dynamic speaker which, with its large baffle area, offers exceptionally full-voiced beauty of tone. Includes all features described above. Knight 6 Tube 6 Volt Console Model complete with 8" speaker and Raytheon tubes. Less 6 Volt Storage Battery. Code: GLADE. Shpg. wt., 30 lbs.

B10546. Retail Value, \$89.50. **\$43.45**
YOUR NET PRICE.....
B10549. As above, but complete with Knight 6 Volt 45 plate heavy duty storage battery. Shpg. wt.: 92 lbs. NET..... **\$48.80**

6 TUBE 6 VOLT CHASSIS MODEL

Here's an ideal chassis for custom cabinets or for replacement purposes. Measures: 11 1/4" x 23 1/4" x 8". Includes all features of models listed above: All-Wave tuning from 16-555 meters, A.V.C., Tone Control; illuminated Airplane dial, low-drain tubes, 2 watts output. Supplied complete with special alloy P.M. dynamic speaker, dial with knobs and escutcheon, and Raytheon tubes. Operates entirely from single 6 Volt "B" Battery. (6" and 8" batteries needed.) Less 6 Volt Battery. Shpg. wt. 18 lbs. Code: BROWN. **\$27.95**

B10547. Retail Value, \$57.50. **\$27.95**
YOUR NET PRICE.....
B10553. As above, but complete with Knight 6 Volt 45 plate heavy-duty storage battery. Shpg. wt.: 60 lbs. NET..... **\$33.30**



Free POWER \$19⁷⁵ Complete

FROM THE WIND

NEW RURLPOWER WINDCHARGER AMERICA'S FINEST—FOR LOW-COST BATTERY RADIO OPERATION

Now! Get FREE power from the wind with the finest, most reliable Windcharger ever made. This new, perfected Rurlpower Windcharger offers true economy in storage-battery charging—costs nothing to operate; saves you the expense of dry batteries, of carting heavy batteries to town for recharging. Puts the wind to work for you to deliver up to 16 amperes of direct 6 Volt current. Employs a newly-designed, exclusive Delco-Remy generator which has been especially developed for the Rurlpower Windcharger—instead of the usual rebuilt, re-wound automobile type generator. This means long-lived, thoroughly dependable service for you. The Rurlpower Windcharger is especially suited for use with the 1938 Knight 6 Volt Radios shown on pages 147, 148, 151, 152. Order a Windcharger and new Knight 6 Volt Radio together. The Windcharger assures better radio performance because it eliminates the nuisance of run-down batteries. Carefully engineered with many distinct new refinements; protected against weather; ruggedly constructed.

CHECK THESE FEATURES:

- New Delco-Remy Generator—especially designed for Rurlpower Windcharger.
- Charges 6 volt or 2 volt storage batteries at rate up to 16 amps.
- Generator has double-sealed ball bearings; cuts in at 350 R.P.M.
- Airplane type propeller with metal-sheathed leading edges.
- All electric outlets are fully shielded against weather.
- Pivoted squallbar bar assures proper spring tension.
- Swivel throw-out automatically corrects position for any wind.
- Rotogrip distributor maintains double tension contact—permits free rotation of power head.
- Generator is self-governing—mounted on offset tilting cradle.
- Ten foot tower is rigidly constructed, easy to assemble.

CHARGES ANY STORAGE BATTERY

The Rurlpower Windcharger quickly and efficiently charges any 6 volt Storage "A" Battery, or, used with the resistor below, will charge a 2 volt storage battery. Has automatic cut-out; automatic propeller speed governor. Easy starting and stopping with simple pull-down wire attached to swivel-collar. To install, mount Windcharger and 10 foot tower on unobstructed roof or in high, open place; attach wires from generator outlet to storage battery—the wind does the rest. May also be used for limited lighting service with heavy-duty batteries such as shown below.

B10032. Rurlpower Windcharger complete. Includes Delco-Remy 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.

YOUR NET PRICE

B10031. 2 Volt Resistor for charging 2 Volt Storage Battery from Wind charger line. NET..... 65c

\$19⁷⁵



WITH NEW
GENUINE
DELCO-REMY
GENERATOR



6 VOLT RADIO & LIGHT PLANT ACCESSORIES

6 VOLT STORAGE BATTERIES

Especially designed for use with Rurlpower units. Oversize plates and carefully sealed cells provide long efficient service for light plant use.

B10021. 51 plate. For radio and not more than 1-25 watt lamp or 2-15 watt lamps. 55 lbs. NET..... \$10.95

B10022. 83 plate, medium-duty type. For radio, and not more than 2-25 watt or 4-15 watt lamps. 65 lbs. NET..... \$14.45

B10023. 78 plate heavy-duty type. For radio, and up to 4-25 watt or 6-15 watt lamps. 75 lbs. NET..... \$23.10

B10024. GLASS JAR DELUXE TYPE. Especially developed for farm lighting service. Has unusually heavy plates. Pilot cell indicates gravity test at all times. Supplied with a sturdy wood protective case. 125 lbs. NET..... \$21.25

LIGHT PLANT WIRE

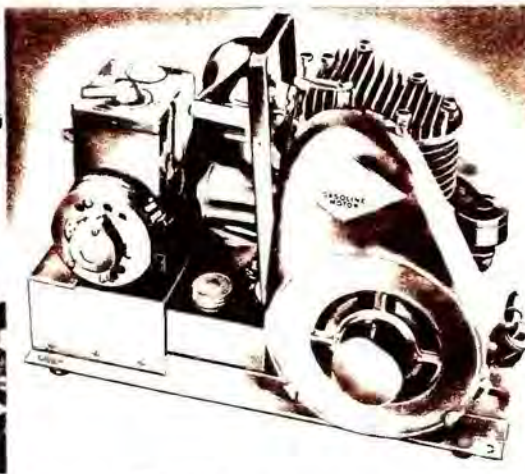
Weatherproof single conductor wire for use with Windcharger or Rurlpower plants. Solid copper conductor; triple cotton-covered and impregnated. For battery charging, use wire as follows: At a distance of 75 feet from charger to battery, use No. 6; at 50 feet, use No. 8; at 25 feet, use No. 10; at 15 feet, use No. 12. For a single 6 volt 25 watt lamp, 150 feet from battery, use No. 8; 75 feet, use No. 10; 50 feet, use No. 12; 30 feet or less, use No. 14.

No.	Size	100 Ft.	Per Ft.
B2490	6	\$8.25	8 1/2c
B2491	8	5.50	5 1/2c
B2492	10	3.10	3 1/2c
B2493	12	2.85	3c
B2494	14	1.25	1 1/2c



Now!

ECONOMICAL FARM LIGHTING AND LOW-COST RADIO POWER



De Luxe 6 VOLT LIGHT & POWER PLANT

Here is the brand new 1938 Ruripower De Luxe unit—the finest 6 volt plant ever made! Skillfully engineered with valuable new mechanical features and ruggedly built for long, reliable service. Employs a genuine Briggs and Stratton engine—your assurance of long-life dependability. Ruripower is the ideal light and power supply for the farm, trailer, boat, sound truck, travelling show, roadside stand, etc. Charges up to three 6 volt storage batteries; operates up to eight 25-watt 6 volt bulbs from heavy-duty 6 volt storage battery! Ruripower develops full 200 watts of direct current for quick, low-cost battery charging to permit operation of 6 volt lighting system, 6 volt radio and 6 volt Sound Systems. Also has efficient direct motor power take-off for operating many farm appliances. With convenient lever-starting.

\$1000. Complete De Luxe Plant. Shpg. wt. 87 lbs. NET EACH \$53.85. YOUR PRICE, LOTS OF 3, EACH.....

\$49⁵⁰

WHAT RURIPOWER DOES

Ruripower De Luxe will keep 6 volt storage batteries fully charged for continuous, more powerful radio performance and for real electric lighting. (Instructions are provided showing how to charge 2 volt and 12 volt storage batteries.) Appliances such as washing machines, cream separators, pumps, etc., requiring not more than 1/2 H.P. may be driven from the motor with direct pulley take-off. Ruripower eliminates battery-charging troubles, inadequate lighting and laborious chores. There's nothing like the convenience of electric power offered by Ruripower. Lever-starting—works in an instant. Portable—it can be taken anywhere. Economical—runs 4 hours on 2 gals. of gas. Ruripower saves enough time and money to pay for itself in a few weeks. Order now—for savings, for profit!

RURIPOWER SPECIFICATIONS

De Luxe engine is famous Briggs and Stratton 4 cycle, single cylinder, air-cooled 3/4 H.P. type. Lever-starting; motor ignition supplied by high-tension built-in flywheel magneto (battery not needed for starting). Also has starter pulley for emergency hand cranking. Special ball-bearing generator furnishes full 200 watts output at 6 volts; fan-cooled; equipped with automatic circuit breaker. Multiple control switch provides selected charging rates of 10 and 35 amperes. Ignition shielding prevents radio interference. Rubber-mounted feet prevent vibrations. Size 14" x 12" x 20 3/4". Supplied complete with charging leads and battery terminals, air cleaner, muffler, tools, and full operating instructions telling how to charge 2 volt and 12 volt storage batteries as well as 6 volt.



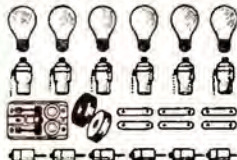
RURIPOWER STANDARD MODEL

This new standard model is similar to the De Luxe unit in features and specifications, except that it has a hand rope starter. Compact, portable, yet thoroughly reliable. Supplies 100 watts, 6 volts D.C. to charge 6 volt storage batteries—quickly, inexpensively—for operating 6 volt radio, 6 volt light bulb, etc. Will also operate appliances requiring not more than 1/2 H.P. directly from motor by means of auxiliary pulley. Includes genuine new Briggs and Stratton 6-cycle, air-cooled, single-cylinder engine, and newly designed, specially matched generator. Costs only a few cents to operate—runs 4 1/2 hours on 2 gals. of gasoline. Compact (15 1/2 x 13 1/2"), light in weight (46 lbs.) so that it is easily portable—yet sturdy and dependable. Battery is not required for starting; motor ignition is supplied by moisture-proof, high-tension, built-in fly-wheel magneto. No more time-wasting, drudgery, poor lighting, weak radio performance. Put Ruripower to work—it will pay for itself in just a few weeks. Make money charging batteries for others in addition to selling the unit itself. Cash in on a big, waiting market.

1100B, Standard Ruripower complete with charging leads, terminal clips, coils, and full instructions. Shpg. 100 lbs. NET EACH, \$29.95. YOUR PRICE, LOTS OF 3, EACH.....

\$28⁵⁰

LOW-COST 6 VOLT LIGHTING SYSTEM



A complete kit of essential equipment for wiring the rural home. Enables you to take full advantage of electric light obtained from 6 volt storage battery. Provides modern lighting at low cost. Easily matched, 6 volt battery charged by means of the Ruripower light plant, or Ruripower Windcharger will provide an abundance of soft residential illumination. The complete lighting system kit contains:

- 1—Porcelain double-pole entrance switch and fuse block, 2—30 Ampere plug fuse, 100 ft. roll No. 8 triple braid-covered weatherproof wire, 25 ft. roll twisted drop cord, 3—25 watt and 3—15 watt 6 volt light bulbs, 6—chain sockets, 6—porcelain cleats, 6—porcelain nail-knobs, 2—6" porcelain tubes, 1—4-oz. roll friction tape, 1—4-oz. roll rubber tape, and instructions.

B2922, NET..... \$8⁵⁰

6 VOLT LIGHT BULBS

These high grade G.E. licensed light bulbs give maximum light from a 6 volt storage battery. Ideal for use in farm lighting systems, camps, lodges, house-trailers, etc. Made by KEN-RAD; nationally known for quality and life. Have standard Edison type base. Write for attractive quantity prices. (Also available in 12 volt type; see listing on page 21.) These bulbs have frosted inside surface for even light diffusion.



No. Watts	Drain	EACH
B795.	15	2.5 Amp. 25c
B796.	25	4.2 Amp. 25c
B820.	50	8.5 Amp. 35c

B5469, FULL-CHAIN SOCKET, Pendant type, standard Edison socket. Threaded to accommodate screw-on type reflector. With 6" pull-chain. NET EACH 17c

POWERFUL KNIGHT AUTO RADIOS



FITS ANY CAR
MATCHES ALL DASHES

Knight 6 TUBE Suppressorless AUTO RADIO

- All-Electric
- 3 Gang Condenser
- Fits Any Aerial
- Tone Control
- A.V.C. Action
- No Suppressors
- 6" Speaker
- 3 Watts Output
- Very Low Drain

New! Thrilling! The finest 6-Tube Auto Radio money can buy. Designed with the precision, ruggedness and quality demanded by the automotive industry. Unparalleled for tonal brilliance, large dependable power and outstanding new refinements. Complete Noise Suppression is achieved by the use of a special multi-filter system which assures enjoyable noise-free operation.

- The Knight 6 Auto Radio fits any car easily (including the Ford). Its compact size (8 1/2 x 7 1/2 x 7") and single hole mounting feature adapt it for easy mounting in any one of four positions. Only 1 battery and 1 aerial connection are required.
- Works with any auto antenna—matching perfectly to either low or high capacity types. The rugged construction of the entire receiver assures a secure and permanent vibration-free installation. The use of the newest tubes promotes stability and freedom from interference. Tuning mechanism is fully illuminated.
- True A.V.C. prevents fading and keeps volume at constant level. Variable Tone Control permits tonal emphasis as desired. The large 6-inch electro-dynamic speaker is designed to deliver flawless tone.
- The New Knight 6-Tube Auto Superhat incorporates the latest RCA and Hazeltine licensed circuit. The use of dual-purpose and triple-purpose tubes assures actual 9-tube efficiency with 6-tube economy. Has full 3 watts output which is beautifully handled by the built-in full 6" dynamic speaker. A 3-gang rubber-cushioned condenser with a noise-reducing pre-selector stage of R.F. amplification, a newly developed iron-core antenna coil and double-tuned I.F. transformers positively assure 1 microvolt sensitivity and 10 K.C. selectivity.
- All parts (including fixed condensers) are securely bracked to resist vibration. Case is of heavy-gauge rust-proof steel, well-ventilated, with complete dust-proof provision for speaker and condenser. In handsome dark maroon finish with smart chromium grille. Patented antenna circuit gives maximum efficiency with any type of auto aerial. The Knight 6 is really a Custom Auto Radio designed to fit and match all cars by the use of the special remote control mounting kits listed below at left. No other 6-Tube Auto Radio offers such luxurious performance.

• The Knight 6 Tube Auto Radio is offered complete with Raytheon tubes. Flexible shafts, tuning control mechanism and hardware.
BI0550.
 Retail Value \$39.95.
NET EACH, \$22.95.
 LOTS OF 3, EACH...

\$22.95



Ford



Chevrolet



Buick



Chrysler



Plymouth



Pontiac

SPECIAL CONTROL MOUNTING KITS

BI0556. TYPE A.
 Universal control which adapts tuning mechanism of Knight 6 Auto Radio to fasten to lower edge of dash instrument panel. Makes an attractive installation in cars which do not have custom-control provision on dash.
YOUR PRICE 90c
 EACH.....

BI0557. TYPE B.
 Custom control for mounting on dash panel of cars equipped with ash tray compartment. When ordering, be sure to specify make, model and year of car, indicating whether de luxe or standard. (See popular controls at left.)
YOUR PRICE \$1.15
 EACH.....

(These controls are for use only with 1937 Knight Auto Radios.)

SPECIALS IN AUTO RADIO ACCESSORIES



RCA-VICTOR M-34 VIBRATOR ASSEMBLY

A genuine R.C.A. Replacement Part. An exact replacement vibrator, part No. 7604, for the R.C.A. M-34 auto set. Sealed, fully adjusted and ready to install. Will operate on from 4 to 8 volts input. Rubber-mounted in double aluminum can. Size 4 1/2" hie. x 2 3/4" diameter.
B7320. Part 7604. \$3.60
 at. \$6.00. NET.....



KNIGHT DOR-HINGE AUTO ANTENNA

A highly effective new auto antenna at an attractive low price. Designed to be easily attached to the hinge rim of any car door without drilling. Provides exceptionally good full frequency signal pickup because of its desirable non-directional design. 38" long. Attractively and durably finished. Cadmium-plated. Has 42" lead-in wire which enters through car door opening. Furnished with sturdy mounting bracket. One of the finest low-cost auto antennas on the market today. Meets every requirement for performing efficiency, sturdiness and attractiveness.

BI0385.
NET PRICE..... 95c

FRONT WHEEL NOISE SUPPRESSORS

Effectively eliminates all noises caused by static pick-up of front wheels of car.
B5488. PER PAIR... 18c



MOTOR-NOISE FILTER

A new scientifically designed Auto Radio noise spark plug suppressor eliminator. Easy to install; does not interfere with the car ignition system. Assures noise-free auto radio reception. Unit consists of a combination high-frequency filter and adjustable balancing circuit which completely eliminates use of spark plug suppressors. Filter is housed in rugged metal container fitted with mounting bracket. Installed in series with the antenna at receiver.



B5489. YOUR PRICE..... \$1.32

SHIELDED AERIAL LEAD-IN

For efficient installation of auto antenna. Filler wrapped around No. 18 conductor, with close-fitting shielding overall.
B2444. 1/2" DIAM. 5c
 Per ft. \$4.35
B2443. 3/4" DIAM. 7c
 Per ft. \$5.95
 100 Ft.



BASE FOR ABOVE

RCA Part No. 6577. Capacitor and base assembly for vibrator N. 7604. Two .04 mfd. capacitors.
6577. YOUR PRICE 47c

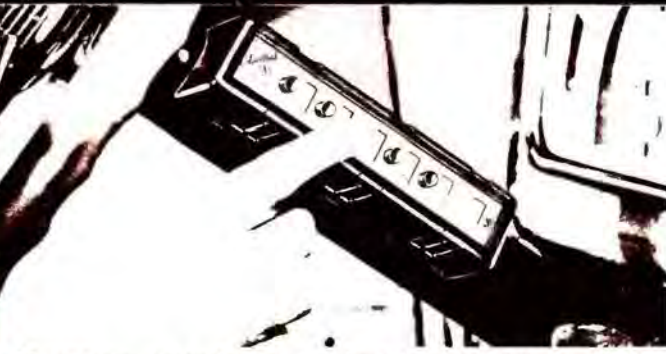
ANTENNA CONNECTOR

Auto Radio sets, to connect antenna set.
B2354. E. H. 6c
PER DOZ. 60c



... PERFECTLY IN ANY CAR

The **SENSATIONAL**
Admiral
TOUCH-O-MATIC
Safety
TUNING UNIT



ALLIED leads again with the first real step toward safe Auto Radio tuning—a sensational new safety feature! The exclusive new **TOUCH-O-MATIC TUNING UNIT** consists of a compact bakelite housing into which six small push-buttons are incorporated. Five of these buttons are for program logging, each controlling a separate station. The sixth button is intended for channel clearing—it makes the change from push-button tuning to regular manual dial tuning, or vice versa, desired. By merely depressing any one of the five station-control push-buttons, you can accurately log the program being broadcast by that station. Imagine this: You can tune the station you want with a simple movement of your finger—safely—without taking your eyes off the road. (Regular control cans, of course, be used at any time.)

* **For All Stations.** Any one of the five station buttons can be easily adjusted to any frequency or any station on the broadcast band. For the most accurate alignment, an oscillograph should be used. The five buttons will adequately cover the most popular broadcast stations in each locality.

* **Works with Any Auto Radio.** The **TOUCH-O-MATIC Safety Tuning Unit** will work with any auto radio receiver. Only two connections are required. A cable is connected from the push-button unit to the special **TOUCH-O-MATIC** tuning box which is in turn fastened to the auto radio case. The second connection is from this control box into the receiver. The **TOUCH-O-MATIC Unit** is especially ideal for use with **Knight Auto Sets**.

* **Easy to Install.** The **TOUCH-O-MATIC Unit** is amazingly compact. Dimensions: 5 1/4" x 1 3/4" x 1 1/4". Housing is of sleek black bakelite, designed to harmonize perfectly with the interior of the finest cars. Can easily be mounted on the steering post or under the dash.

* **Amazing Low Price.** The **TOUCH-O-MATIC Unit** is priced within the reach of every Auto Radio owner. Comes complete with push-button unit, control box, cable and hardware. **B1055.** List, \$8.95. **NET. ONLY.....**

\$5³⁵

Knight 7 TUBE Suppressorless **AUTO RADIO SUPERHET**

Every outstanding Auto Radio feature has been incorporated in this new **Knight 7 Tube Auto Set** to assure superb tone, dynamic power output, wide distance reach, and easy, quick installation in any car.

- * **Fits All Cars.** The **Knight 7** is completely contained in a single bronze crinkle-finished metal case with attractive chrome grille. Measures only 8 1/2" x 7 1/4" x 4 1/8". Has single hole mounting for quick easy installation.
- * **No Suppressors.** A special new multi-filter noise suppression circuit is built into the **Knight 7** for noise-free reception. There is no need for spark plug suppressors.
- * **Metal Tubes.** Newest type tubes are used throughout the advanced circuit of the **Knight 7**. Three of these tubes are the latest metal types (6K7, 6H6, 6C5). The others are super-efficient glass types (6D6, 6A7, 6V6G, 84).
- * **5 Watts Output.** The **Knight 7** develops a full undistorted output of 5 watts—the result of a powerful 6V6G output stage. Makes possible marvellously full tone.
- * **8 1/2" Dynamic Speaker.** The self-contained heavy-duty dynamic speaker handles the tone of the **Knight 7** with rare fidelity and richness. At all frequencies, reproduction is wonderfully real and brilliant.
- * **Tone Control.** Continuously variable full-range Tone Control is incorporated in the new four-in-two control head. Adds enjoyment to every program.
- * **Full A.V.C.** Automatic Volume Control has been brought to a high point of perfection in the **Knight 7**. There is no fading, no reduction of volume.
- * **Local and Distance Switch.** This switch is located on the new tuning head. In the "local" position it makes possible absolutely noise-free reception so desirable when driving in the city. The "distance" position is ideal for open country driving.
- * **No-Glare Dial.** The splendid new dial of the **Knight 7** is a real safety feature. It is easy to read—there is absolutely no glare and no distraction.
- * **Antenna Matching Circuit.** A new built-in antenna compensator matches the **Knight 7** perfectly for use with all high or low capacity auto aerials.
- * **New Circuit Features.** The **Knight 7 Auto Radio** incorporates splendid new refinements in its RCA and Hazeltine licensed circuit. A pre-selector R.F. stage reduces noise level and provides increased selectivity and sensitivity. 7 tuned circuits are used. A rubber-floated 3 gang condenser gives real stability.

* **A Great Car Radio Value.** The **Knight 7 Tube Auto Radio** as described is offered complete with built-in speaker, Raytheon tubes, flexible shafts, tuning mechanism and hardware. (Mounting panel and knobs shown in photograph not included. See listing on page 154 for proper panel list to fit your car.) Shpg. wt., 4 1/2 lbs. Code: B11LD. **\$28⁴⁵**
B10551. Retail Value, \$49.95.
NET PRICE EACH, \$28.55.
YOUR PRICE LOTS OF 3, EACH.....

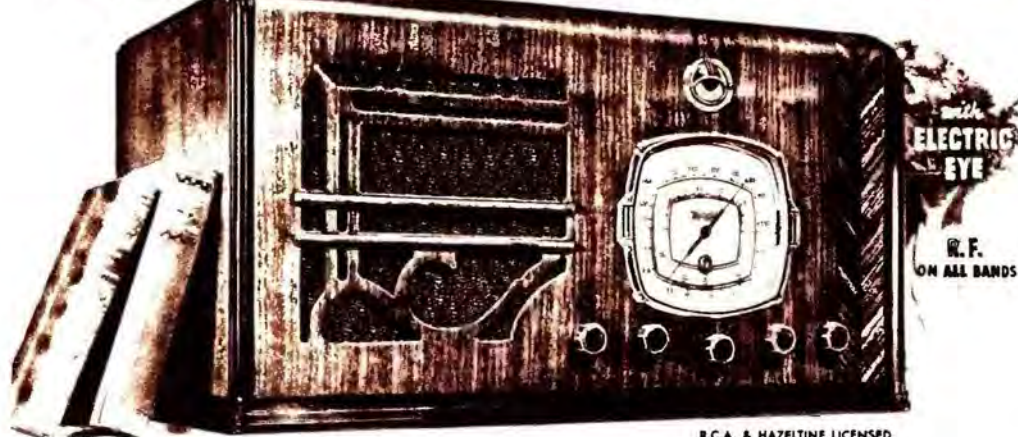


Knight 7 TUBE DeLuxe AUTO RADIO WITH SEPARATE 8" SPEAKER

The **Knight 7 Tube Auto Radio** is also available in the de luxe Dual Unit design. This model is exactly the same as described above except that a separate full 8" P.M. Dynamic Speaker is used. The separate chassis unit and separate speaker unit are each single-hole mounting. Both are in attractive bronze crinkle-finished metal cases with chrome trim. Chassis unit measures 8 1/2" x 7 1/4" x 4 1/8". Features include: Metal Tubes; No Suppressors; Tone Control; A.V.C.; 5 Watts Output; No-glare Dial; Local and Distance Switch; 3 Gang Condenser; 7 Tuned Circuits; Pre-selector, etc. The **Knight 7 De Luxe Auto Radio** comes complete with separate 8" speaker, Raytheon tubes, flexible shafts, tuning mechanism and hardware. (See listing on page 154 for proper panel list to fit your car.) Shpg. wt., 26 lbs. Code: DELTA. **\$31⁹⁵**
B10552. Retail Value, \$54.95.
NET PRICE EACH, \$31.35.
YOUR PRICE LOTS OF 3, EACH.....



America's FINEST 6 VOLT BATTERY RADIO



with
**ELECTRIC
EYE**

**R.F.
ON ALL BANDS**

R.C.A. & HAZELTINE LICENSED

Knight 8 TUBE 6 VOLT ALL-WAVE SUPERHET

- 3 Bands
- Tone Control
- Full A.V.C.
- Giant Dial
- With Electric Eye
- Bass Compensation
- 3 Gang Condenser
- New P.M. Speakers

Surpassing all previous achievements in the 6 Volt Radio field, the Knight All-Wave 8 offers every unworked home, the full luxury, convenience, and outstanding features of the finest AC receivers. Using only one 6 volt storage battery, it achieves actual 10-tube efficiency through the use of newest low-drain, multi-function tubes. Look at these features:

- **3 Full Bands.** Tunes 12-40 and 40-136 meters for powerful world-wide Short Wave Foreign, Amateur, Police, Ship, and Airplane reception; and 174-555 meters for coast-to-coast American and Canadian standard Broadcast stations. True All-Wave reception—day and night!
- **Rich, Flawless Tone.** The latest special-alloy P.M. dynamic speaker is employed by the Knight 6 Volt All-Wave 8, assuring finest wide-range tonal reproduction at all volume levels. Every program—voice or music—is rendered in vivid, life-like tone. Four-position Tone Control allows personal choice of tonal emphasis. Bass and Treble Compensation eliminates "slicing off" of vital overtones.

- **Powerful Superhet Circuit.** Licensed by R.C.A. and Hazeltine. Incorporates newest R.C.A. tubes: 6S7G as R.F.; 6D8G as Det.-Mod.; 6S7G as I.F. Amp.; 6L5G as Det.-A.V.C.; 6S7G as 1st. Audio; 6L5G as Driver; 19 as Class "B" Push-Pull Output; and 6N5 as Electric Eye. Total drain is only 2.8 amps., yet this powerful circuit develops full three watts output! Other outstanding features: I.F. wave-trap, to prevent crosstalk from breaking through on Broadcast band; rubber-floated chassis for more stable operation; 3 gang tuning condenser for sharper tuning; 7 tuned circuits on each band; full A.V.C. to maintain uniform volume level; phono and double antenna connections, etc.

- **Electric Eye.** Scientifically precise, it shows you visually when you are tuned in perfectly. Prevents "off-station" tuning. A splendid extra-value feature.

- **R.F. on All Bands.** Usually found only in the finest custom-built receivers. Increases sensitivity tremendously, so that even the most distant stations are brought in clearly and dependably. Makes possible absolutely dependable foreign reception.

- **Latest Type Dial.** The Knight 6 Volt 8 is enhanced by a handsome pillow-shaped dial, 5 3/4" in diameter and edge-lighted. Accurately calibrated separate wave-bands are clearly marked on gold background. Visual wave-band indicator is built into dial.

- **Table Model Complete.** In luxurious "laid-down" table model cabinet. Front and top are of one-piece, attractively striped walnut enhanced by V-matched contrasting trim strip, and beautifully matched grained sides. 26" x 14" x 13".

B10606, Knight 8 complete with tubes and 6" speaker. Less 6 volt battery. Shpg. wt., 45 lbs. Code: POWER. Retail Value, \$99.50.

YOUR NET PRICE \$47.50

- **B10607, Knight 8 complete as above, but with Knight Heavy-duty 51-plate, 6 volt storage battery. Shpg. wt., 90 lbs. Code: HEAVY-DUTY.**

YOUR NET PRICE \$53.95

- **No "B" or "C" Batteries Needed.** The Knight 8 operates from a single 6 volt storage battery which supplies all current necessary, eliminating "B" and "C" batteries. 6 volt battery may be inexpensively charged through use of Rurlipower Wind-charger or Gas Engine (see pages 149-50).

8 TUBE 6 VOLT CONSOLE MODEL

The Knight 8 Tube Battery Superhet is offered also in the magnificent console illustrated at the right. Has vertically striped walnut instrument panel and top of one-piece roll-top construction. Side pilasters are gracefully curved and are of matched contrastingly-grained walnut, set off by top beveled sections. Size, 40 1/2 x 12 1/2 x 24 1/2.

B10608, Knight 8 complete with tubes and 10" speaker, less 6 volt battery. Shpg. wt., 80 lbs. Retail Value, \$120.00. Code: ANGLE.

YOUR NET PRICE \$56.75

B10609, Knight 8 complete as above, but with Knight Heavy-duty 51-plate, 6 volt storage battery. Shpg. wt., 122 lbs. Code: HEAVY-DUTY.

YOUR NET PRICE \$63.20

CHASSIS MODEL

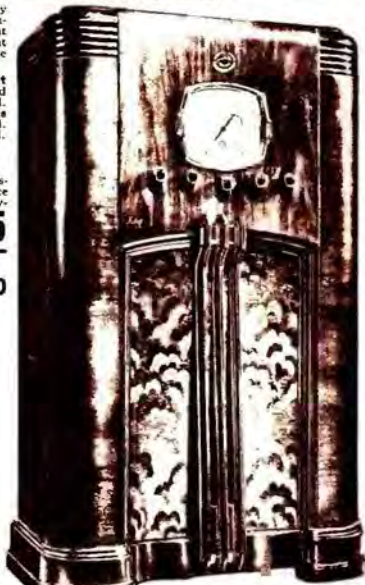
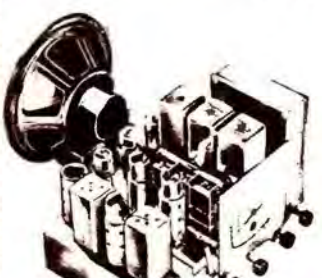
The chassis model of the Knight 8-Tube Battery Superhet is perfectly suited for all replacement purposes. Uses a 10" special alloy P.M. dynamic speaker to obtain the finest tone quality. Incorporates all the new features shown above. Built like a battleship, it will give dependable, brilliant performance for a long time. Size: 14 1/2" x 10" x 10".

B38 Knight 8 chassis model with tubes and 10" speaker, less 6 volt battery. Shpg. wt., 22 lbs. Code: CHASSIS.

YOUR NET PRICE \$41.50

Complete as above, but with Knight Heavy-duty 51-plate, 6 volt storage battery. Shpg. wt., 44 lbs. Code: HEAVY-DUTY.

YOUR NET PRICE \$47.95



Knight 6-Tube All-Electric 32 VOLT SUPERHET

- ALL-ELECTRIC RADIO
- WITH TONE CONTROL
- FULL A.V.C. ACTION
- 6" DYNAMIC SPEAKER
- GIANT 5 1/2" DIAL
- 3 BAND EFFICIENCY

\$27⁹⁵
EACH
IN LOTS
OF 3

The Finest in
32 VOLT RADIO

TUNES 16-51; 175-555 METERS FOR 3 BAND UTILITY

No finer 32 volt receiver than this 1938 Knight 6 is built today, any price—it stands head and shoulders above the rest of the field in beauty, power, tone quality, economy and convenience. Typical Knight quality is built into its beautiful cabinet, its sturdy chassis. Operating directly from 32 volt power sources, the Knight 6 tunes 2 complete bands—16 to 51 and 175-555 meters—bringing every desirable program in powerfully and dependably. New improvements, new refinements, now make it possible for every user of 32 volt power to obtain the typical in radio—at an unbeatable low price.

• **Operates From Any 32 Volt D.C. Source.** No batteries, power units, or vibrators are required—the Knight 32 Volt D.C. Superhet is entirely all-electric! The new type 48 tubes which are employed operate directly from any 32 volt source, for genuine all-electric power, convenience and economy. This modern 32 volt super incorporates every new and advanced feature found in the finest A.C. receiver!

• **Giant Airplane Dial.** A beautiful 5 1/2" airplane dial enhances both the console and table models. Pillow-shaped, edge-lighted, it has a gold face, with clear, accurate calibrations to make tuning a pleasure, not a task. Dial is calibrated in kilocycles for the 175-555 meter band; in megacycles for the 16-51 meter band.

• **Three Band Efficiency.** The Knight 32 Volt 6 tunes 16-51 meters for foreign and domestic Short Wave programs, including the most popular overseas stations on the 19 and 49 meter bands; and 175-555 meters for powerful American and Canadian standard Broadcast programs. Here are two full bands that do the work—and give you all the thrills—of three!

• **8 Tubes Power With 6 Tubes Economy.** The newest R.C.A. and Hazeltine circuit is employed by the Knight 32 Volt Superhet. The following multi-purpose and single purpose tubes produce 8 tube results at no extra cost; 1—6A7, as Osc. Mod.; 1—6D6 as I. F. Amp.; 1—75 as Det.-A.V.C. 1st. Audio; 1—76 as 2nd. Audio; and 2—48's as push-pull audio output. Total drain is only 40 watts. Just plug this set into any 32 Volt D.C. line and you're ready to enjoy radio at its best.

CONSOLE MODEL

The Knight 6-Tube 32-Volt Superhet is offered in the fine console shown at the left. Built of choice walnut woods, with plenty of baffle area to assure finest, acoustical results. Has front face of beautiful matched stump walnut, with decorative fluted side pilasters. Measures 38" high, 23 1/2" wide, 12" deep. 8" auditorium speaker reproduces every tone level with dynamic, vivid clarity. 5 1/2" dial is easy-to-read, simple to tune. For those who want the best in 32 Volt radio performance. Complete all-electric 32 Volt A.C. tubes. For 32-Volt operation. Shipping weight, 50 lbs. Code: GRANT.

R10615.
Retail Value, \$82.50.
NET EACH, \$39.75. **\$37⁷⁵**
YOUR PRICE
LOTS OF 3, EACH.....

(For efficient aerial, see page 99.)

• **Glorious Tone.** No other 32 Volt receiver can surpass the splendid tone quality of the Knight 6. Its strong power is handled efficiently, beautifully, as rich, full-bodied tone by the heavy-duty dynamic speaker (6" in the table model; 8" in the console). Each note is delightfully free from "boom" and "tininess." Listening to the Knight 6 gives a new concept of 32 Volt radio tone quality. No finer 32 Volt radio can be bought at any price.

• **Latest Features.** Every advanced feature usually found only in high-priced A.C. receivers has been included in the Knight 6 Tube 32 Volt Superhet. Full Automatic Volume Control assures uniform volume and freedom from fading; Continuously Variable Tone Control permits personal accentuation of either treble or bass; rubber-mounted chassis and tuning condenser absorb jars and provide quieter, steadier reception; 6 tuned circuits on each band for maximum selectivity; doublet antenna connection; smooth, dependable wave-band switch; newest multi-function tubes, etc. Only the Knight 32 Volt 6 gives you so many features, so much extra-value for your money!

• **1938-Styled Cabinet.** Up-to-the-minute in its beautiful modern design, the table model cabinet of the Knight 6 shown above, has instrument panel and sides of one-piece horizontally-grained walnut, with graceful rolled-end effect. The top is of selected walnut; the grille is enhanced by three attractive bar overlays. Size: 19 1/2" x 11" x 9 1/4". This cabinet is a fitting complement to the quality and workmanship of the Knight 6.

• **Table Model Complete.** The Knight 32 Volt 6 Tube table model is offered complete with 6" dynamic speaker, 5 1/2" dial and 6 R.C.A. tubes. For 32 volt operation. A \$60.00 value offered at a price that defies competition. Ship. wt., 50 lbs.

Code: BROOK.
R10612.
Retail Value, \$60.00.
NET EACH, \$29.50. **\$27⁹⁵**
YOUR PRICE
IN LOTS OF 3, EACH.....

CHASSIS MODEL

A superb replacement for your present cabinet. The chassis model of the Knight 32 Volt 6 is supplied with an 8" super-dynamic speaker and striking 5 1/2" dial. Full-sized, it measures 11 1/4" x 8" x 8". Reflects the highest type of workmanship and quality, and is built for long life and enjoyable, trouble-free performance. Employs an R.C.A. and Hazeltine circuit as described above, assuring the most modern type of radio reception. Complete with speaker, dial, tubes and cutchcution. A splendid all-electric 32 Volt Radio value. For 32 volt operation. Shipping weight, 13 lbs. Code: DRESS.

R10617.
Retail Value, \$54.50.
NET EACH, \$25.75. **\$24⁵⁰**
YOUR PRICE
LOTS OF 3, EACH.....

R.C.A. & HAZELTINE LICENSED



ALMOST BATTERYLESS! POWERFUL AND ECONOMICAL!!

Knight 7 TUBE 6 VOLT BATTERY SUPERHET

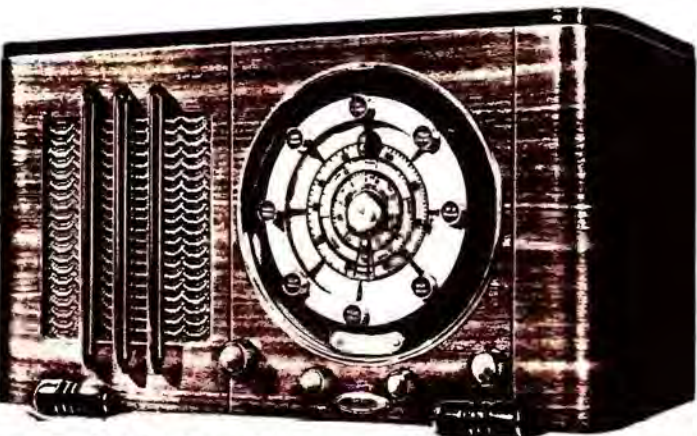
3 FULL BANDS • ELECTRIC EYE

WENR
Chicago

with the New
**AUTOMATIC
SELECT-O-DIAL**

WLAC
KANSAS

R.C.A. & HAZELTINE
LICENSED



The Knight 7
Battery Superhet
Table model com-
plete with R.C.A.
tubes. Less 6 volt
battery. Shpg. wt. 26
lbs.
Code: SHARE.

\$1060. As above, but complete with
B10601. As above, but complete with
45-plate 6 volt battery.

\$41.20

Leads the Field. ALLIED proudly offers the premiere presentation of the 1938 Knight 7 Tube 6 Volt Battery Superhet—a brand new Farm Radio that's first with the amazing new Automatic Select-O-Dial and dozens of other features! Here's a radio that will be modern for years to come. There's no other we like it! And it sells for much less than other makes without those new developmental tunes a station a second! Brings you entertainment from all over the world! Offers tonal quality so realistic you'll think you're in the studio!

World-Wide Range. Tunes everything on the air in 3 continuous bands (no skips or "dead" spots) from 16-550 meters. Foreign Short Wave programs plus Amateurs, Air-planes, Police, and Ships-at-Sea are reliably covered from 16-32 and 52-174 meters; coast-to-coast American and Canadian standard Broadcast stations are tuned powerfully and pleasingly from 174-555 meters.

Almost Batteryless. A revelation for convenience and economy. Operates entirely from a single 6 Volt storage battery—without "B" or "C" batteries. Newest genuine R.C.A. tubes of low-draw types are used throughout. (Draw is only 2.5 amps.) You save on "B" and "C" battery costs—in ordinary use, as much as \$18 to \$24 a year!

Stirring Tonal Quality. Amazingly life-like tone is assured through the use of a new P.M. dynamic speaker (6" in table model; 8" in console and chassis models). Matched for best acoustical response and mounted for full baffie area, this speaker reproduces every program faithfully, richly, enjoyably. Rural listeners can now enjoy the pure tone of radio's perfect voice. Personal Tone Control enables you to emphasize treble or bass ranges at will.

\$35.85

Automatic Tuning. Radio's newest sensation! The new adjustable Select-O-Dial provides for rapid and accurate automatic selection of favorite popular stations. May be easily adjusted by anyone in any locality so that any of 10 stations may be quickly and perfectly tuned. Anyone can tune this new convenient way! Select the station button you want, swing the tuning wheel to the stopping point—your station is there! The Knight 7 can also be tuned in the conventional manner.

Powerful New Circuit. A brand new R.C.A. and Hazeltine licensed Superhet circuit includes every new development. Latest R.C.A. tubes of low-draw types are used as follows: 6DB6 as Osc.-Mod.; 6S7G as I.F. Amp.; 6L5G as 2nd Det.-A.V.C.; 6S7G as 1st Audio Amp.; 6L5G as Driver; 19 as Class "B" Output; 6N5 as Electric Eye. Long-life, plug-in type vibrator supplies all "B" voltages. Other features: Full A.V.C.; Tone Control; 3 gang condenser; Extension speaker connection; Doublet antenna connection; Preselector; rubber-floated chassis, etc.

Exquisite Table Cabinet. The ultra-modern cabinet shown above is the perfect housing for the great new Knight 7 Tube Farm Radio. Instrument panel and sides are of one-piece, horizontally-grained walnut; its beautiful "roll" effect. Simple but graceful grille has shaped bar overlays. Shaped base-mount legs add a note of distinction. Entire cabinet is hand-rubbed to lustrous piano finish. Size: 19 1/2 x 19 3/4".

Easy to Tune. Even when stations are not tuned automatically, the Knight 7 is exceptionally easy to operate. Electric Eye is built right into the dial; shows you visually when your station is properly tuned in. Full Automatic Volume Control action prevents fading—maintains even volume on all signals. Wave Band Indicator, also built into dial, shows you at a glance whether the receiver is set for Broadcast or Short Wave tuning. For all-around performance, attractiveness, and economy, the Knight 7 is beyond comparison. It's a typical ALLIED value.

7 TUBE CONSOLE MODEL

Magnificently presented in the luxurious console cabinet shown at right, the Knight 7 Tube 6 Volt Battery Superhet console model will enhance the finest farm home. Built of choice walnut woods in the latest style. Dimensions: 40 1/2 x 24 1/2 x 12 1/4". Console model includes all features described above and at left. Furnished complete with P.M. speaker and R.C.A. tubes; less 6 volt battery. Shpg. wt., 55 lbs. Code: STOCK.

B10602. Retail Value, \$107.50.

YOUR NET PRICE..... \$51.95

B10603. As above, but complete with Knight 45-plate, 6 volt battery.

Shpg. wt., 95 lbs. NET..... \$56.70



7 TUBE CHASSIS MODEL

The new Knight 7 Tube 6 Volt Battery Superhet is also offered in deluxe chassis form. Includes every feature as described above. Chassis size: 11 x 24 1/2" dial excutcheon, 9" diameter. Operates entirely from single 6 Volt Storage Battery. Supplied complete with R.C.A. tubes, Select-O-Dial with knobs and excutcheon, and speaker. Shpg. wt., 17 lbs. Less 6 Volt battery. Code: GROOM.

B10604. Retail Value, \$69.95.

YOUR NET PRICE..... \$33.35

B10605. As above but complete with Knight 45-plate 6 Volt battery.

Shpg. wt., 57 lbs. NET..... \$38.70



Perfected Automatic Tuning—Superb Tonal Quality

**WORLD-WIDE
RECEPTION**



R.C.A. & HAZELTINE LICENSED

with **AUTOMATIC
SELECT-O-DIAL**

Knight 8 TUBE A.C. SUPERHET

**JUST DIAL
YOUR STATION**

- Automatic Tuning
- Full A.V.C. Action
- With Tone Control
- Tunes 3 Full Bands
- Triple Filter System
- Preselector Stage
- 6 Watts Output
- 3 Gang Condenser
- Large Speakers

The new 1938 *Knight* All-Wave 8 Tube A.C. Superhet in table model, with Automatic Tuning, complete with 8" speaker and Raytheon tubes. For operation on 110 volts, 60 cycles A.C. Shpg. wt., 35 lbs. Code: DONOR.

B10540.
List. \$74.50.
NET EACH,
\$35.95.

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

\$33⁹⁵

• **6 Watts Output.** The *Knight* All-Wave 8 is a powerful performer providing in its magnificent 6-watt output a tremendous reserve power. This power is adequately converted into flawless tone by the large 8-inch electro-dynamic speaker.

• **A Superb Circuit.** A brilliantly engineered R.C.A. and Hazeltine licensed Superhet circuit is used in the 1938 *Knight* 8. The following tubes are employed at maximum efficiency: 6A7 as 1st Det.-Osc.; 6D6 as 1. P.; 75 as Diode-Def.; 76 as phase inverter; 75 as 1st Audio; 2-42 as push-pull power output; 80 as rectifier. A full 6 watts output is developed.

• **Other Features:** Full Automatic Volume Control; Variable Tone Control; R.F. Pre-selection; 3 Gang Condenser; Triple Filter System; 8-inch Electro-dynamic Speaker, etc. Every one of these features contributes to the harmonious combination of powerful World-Wide reception, maximum selectivity, and rich, vital tone which is always evident in the new 1938 *Knight* 8.

• **Wonderful Tone.** Whether you're tuned to a symphony from overseas or a popular domestic program, you'll enjoy to the fullest the faithful tonal response of the *Knight* 8. It reproduces the full range of voice and music with amazing fidelity and brilliant clarity.

• **Handsome New Cabinet.** Distinguished for design and styling. Utilizes one-piece top and front construction with rolled-top effect. Carefully selected vertically-grained walnut is used on the face and top. Horizontal strips adorn the sides and are in a dark finish to harmonize with the grille overlay bars. The entire cabinet is hand-rubbed to a high finish. Size: 21 1/2 x 12 1/2 x 10 1/4 inches.

• **World-Wide Range.** Tour the World with the new 1938 *Knight* 8 Tube All-Wave A.C. Superhet! Tunes everything on the air. 16-52 meter band covers thrilling Short-Wave foreign programs; 52-175 meter band tunes Police, Amateur, Airplane Calls and Ships-at-Sea; 175-555 meter band brings you powerful standard Broadcast reception from all American and Canadian stations.

• **Automatic Tuning.** The 1938 *Knight* 8 tunes your favorite local stations automatically, with true ease and precision. The call letters of ten stations appear right on the dial. Just dial your station the same way you would use a dial phone. Put your finger on the station name you want, swing the tuning disc down to the stop point—and you're tuned in instantly, perfectly. It's as easy as pointing a finger!

• **Giant New Dial.** In addition to true Automatic Tuning, the new 1938 *Knight* 8 has a regular large full-vision illuminated dial with the three tuning ranges calibrated on the outer edge to give the advantage of increased scale length and greater station-spread. Each band is clearly identified.

KNIGHT 8 CHASSIS MODEL

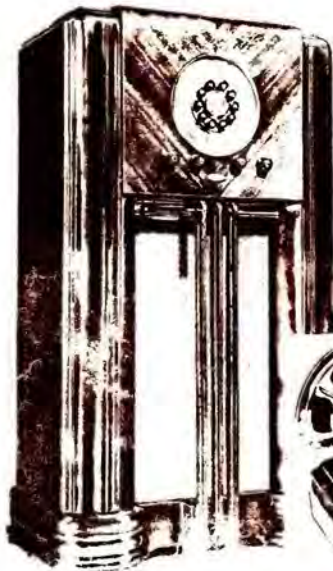
As illustrated — a de luxe model in every way. Size: 11 1/2 x 8 1/2 x 8 1/4. With all features described above. Comes complete with 12" dynamic speaker and Raytheon tubes; with Automatic Tuning mechanism and excitechthon. For 110 volts, 60 cycles A.C. Shpg. wt., 23 lbs. Code: CHAMP. **B10542.**

Retail value, \$71.50.
NET EACH, **\$34.45.**
**YOUR PRICE,
LOTS OF 3, \$3245**
EACH.....

KNIGHT 8 CONSOLE MODEL

The *Knight* 8 is available in console shown as front. Built in choice walnut woods. Size: 41" x 23 1/4" x 12 1/4". Includes all features described above. Complete with 12" dynamic speaker and Raytheon tubes. For operation on 110 volts, 60 cycles A.C. Shpg. wt., 70 lbs. Code: FAVOR. **B10541.**

Retail value, \$97.50.
NET EACH, **\$46.45.**
**YOUR PRICE,
LOTS OF 3, \$4395**
EACH.....



IN THESE NEW *Knight* ALL-WAVE A.C. RADIOS



**WORLD-WIDE
RECEPTION**

R.C.A. & HAZELTINE LICENSED

Knight II TUBE A.C. SUPERHET

- With Metal Tubes
- New A.F.C. Feature
- Full A.V.C. Action
- 3 Full Bands
- Giant 8" Dial
- Noise Silencer
- 9 Watts Output
- Aut. Tone Control
- R.F. Preselector

This magnificent new Knight II Tube All-Wave Superhet with sensational Automatic Dialing is a splendid radio value, designed for the utmost in radio enjoyment. Tune in your favorite domestic stations automatically, "quick as a flash." Thrill to powerful clear reception of foreign stations. Enjoy tone quality such as you have never heard before.

• **Tunes Three Full Bands.** The Knight II covers the complete range: 16-52 meters and 51-174 meters for consistency in the Short-Wave foreign, amateur, aviation, and police calls; 174-550 meters for powerful long-distance reception of all standard American and Canadian Broadcasts. Has all the new features.

• **Automatic Dialing.** Tunes your favorite local stations automatically. Call letters appear right on the dial. Swing the automatic tuning lever to the call letters of the station you want—and a light flashes—you're tuned in instantly, silently and perfectly.

• **Giant Color-Band Dial.** In addition to automatic tuning, the Knight II has a regular big illuminated airplane dial. Has unique visual automatic wave band indicator; shows you exactly which band is in use. Broadcast channels are clearly calibrated in kilocycles. Short Wave bands are in megacycles. Foreign channels are indicated.

• **Metal Tube Efficiency.** 10 new metal tubes and 1 glass type are used effectively in the great new Knight II Superhet as follows: 6K7 as Pre-tuned R.F.; 6A8 as Mod.-Osc.; 6K7 as I.F.; 6J7 as A.F.C.; 6H6 as Det.-A.V.C.; 6X5 as 1st. Audio; 2-6C5 as push-pull 2nd Audio; 2-6G6 as push-pull power stage; 80 as rectifier. You get the most from each tube.

Table model complete as illustrated. Built pleasingly of choice walnut woods. Size: 26 1/2 x 14 x 13 1/2". Complete with 10" dynamic speaker and R.C.A. tubes. Shpg. wt. 31 lbs. Code: REGAL.

B10580.
List, \$110.00.
NET EACH,
\$52.50.

**YOUR PRICE,
LOTS OF 3,
EACH,**

\$49⁷⁵

• **Automatic Frequency Control.** Found only in the most costly radios. AFC shifts the Knight II automatically into hairline tuning for perfect tone. You can't tune in "off-tone"—the circuit snaps into perfect tune anywhere within range of the station signal you are tuning.

• **Automatic Tone Control.** Boosts bass automatically without cutting out the high notes. Has five positions permitting perfect acoustical matching for any type of program. Has final position for best possible noise-free distance and Short-Wave reception.

• **Interstation Noise Silencer.** You can tune from station to station with no screeching, whistling or squealing noises. An ingenious automatic device that makes tuning a real pleasure.

• **More Features.** Additional features found in the Knight All-Wave II include: Automatic Volume Control for steady, uniform volume; rubber-footed 3-gang tuning condenser for sharp selectivity; pre-selector for added sensitivity; double push-pull audio for tremendous 9 watt power; giant-sized auditorium dynamic speaker for broadcast-studio tone quality; doublet connection, etc.

CHASSIS MODEL

The Knight II Tube All-Wave Superhet with Automatic Dialing is also offered in chassis form. Has all the features described above. Beautifully built, oversize chassis—16 1/2" wide, 13 1/2" deep, 11" high. Comes complete with 12" Speaker and Automatic Dialing mechanism and R.C.A. tubes. A wonderful de luxe chassis value. For 110 volts, 60 cycles A.C. Shpg. wt. 40 lbs. Code: EPOCH.

B10582.
Retail Value, \$97.50.
NET EACH, \$46.50.
NET PRICE, LOTS OF
3, EACH,

\$44²⁵

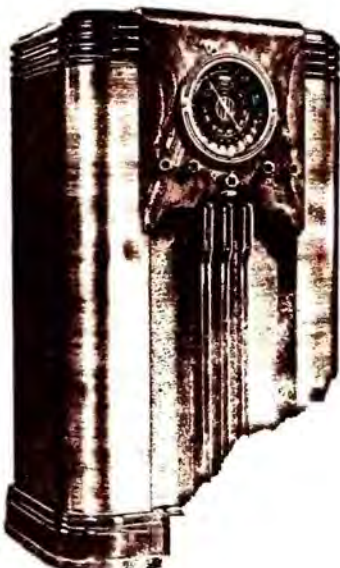
CONSOLE MODEL

The Knight II is fittingly presented in a magnificent console built to the highest standards. Has richly figured butt walnut front face, with roll sides of matched figured striped walnut. Size: 41" high, 26 1/2" wide, 14 1/2" deep. Offered complete with full 12" dynamic speaker and genuine R.C.A. tubes. For 110 volts, 60 cycles A.C. operation. Shpg. wt. 79 lbs. Code: FLASH.

B10581.
Retail Value, \$125.00.
NET EACH, \$59.95.
NET PRICE, LOTS OF
3, EACH,

\$56⁹⁵

with
**AUTOMATIC
Flash TUNING**

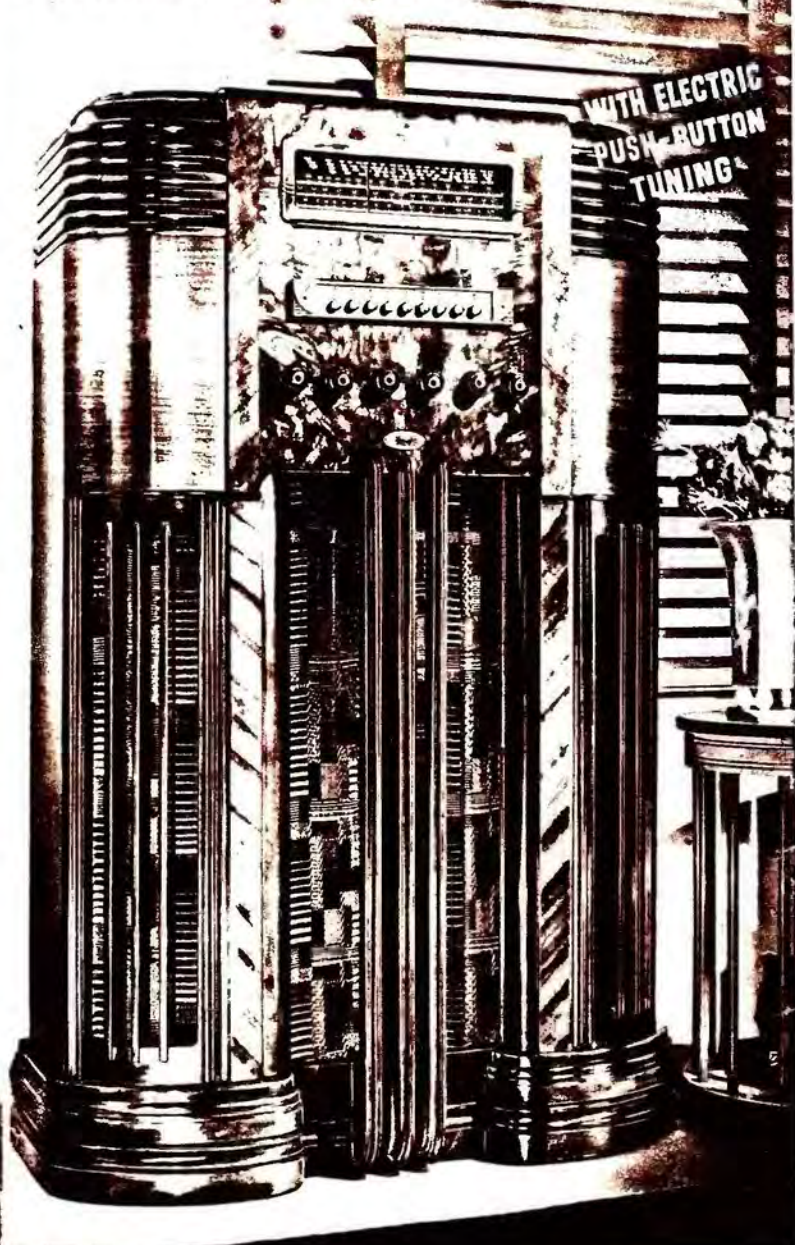


For operation on all voltages from 95 to 260 volts, 25 to 60 cycles, A.C. add \$3.65.

THE WORLD
IS YOURS
WITH THE
Knight
16

RADIO'S FINEST!

WITH ELECTRIC
PUSH-BUTTON
TUNING



Knight 1938

16 TUBE A. C. SUPERHET

\$84.95
EACH

WITH THE SELECT-O-MATIC DIAL

1938 ELECTRIC TUNING

- ELECTRIC TUNING
- NEW A.F.C. ACTION
- 20 WATTS OUTPUT
- R.F. ON ALL BANDS
- 15" DYNAMIC SPEAKER
- 2 STAGES OF I.F.
- 3 FULL WAVE BANDS
- FULL DELAYED A.V.C.
- DUAL TONE CONTROL
- BASS AMPLIFIER
- HIGH FIDELITY
- BEAM POWER TUBES

An amazing new feature found only in the finest 1938 receiver! Just press a button and there's your program—automatically, instantly, electrically! Absolutely practical, thoroughly tested and reliable. Electric tuning is completely automatic. Push the button—there's your station—tuned perfectly, unerringly! You can tune any eight of your favorite stations this miraculously easy and precise way with the Knight 16.



15-INCH SPEAKER

A giant 15-inch Auditorium Dynamic Speaker is coupled with the 1938 Knight 16 to handle the unprecedented 20 watts output of the circuit. All tonal frequencies are brilliantly projected in their true original fullness, with a depth of expression in the low notes and a color in the highs that has seldom been attained even by the most costly studio and laboratory type amplifying instruments.



NEW A.F.C.

Automatic Frequency Control—used only in the most expensive new radio receivers—instantly, automatically shifts the circuit of the Knight 16 into hairline tuning for perfect tone reception. Actually "snaps" stations into perfect tune. You simply can't tune "off-tone" with the Knight 16—no uncertainty and certain is the action of its perfected Automatic Frequency Control circuit.



WORLD-RANGE

Everything on the air, near or far, is captured powerfully by the new 1938 Knight 16. It covers three continuous wave bands from 16 to 550 Meters. Nothing escapes this sensitive and powerful performer. Short Wave from foreign lands as well as domestic police, aviation and amateur signals; coast-to-coast standard American and Canadian standard Broadcast—all come in dependably, consistently on the Knight 16.



SUPERB TONE

No finer tone quality is achieved by any radio instrument made today, regardless of price. The Knight 16 represents the last word in flawless high-fidelity reproduction. A special built-in Bass Amplifier, Dual Tone Control, and 15-inch Dynamic Speaker capture every original nuance and overtones, recreating the original rendition with astonishing faithfulness that will bring you enjoyment to the most critical listener.



Here is ALLIED'S great radio challenge for 1938—a 16 Tube World-Wide Superhet with true Electric Push-Button Tuning—with a score of brilliant and exclusive new features that will not be found in any other receiver listing for less than \$300. Here's the proof:

• **WORLD-WIDE COVERAGE.** The Knight 16 A.C. Superhet covers 16 to 550 Meters—giving complete coverage of everything that's broadcast in the world today. Tunes 16-51 Meters and 51-175 Meters for powerful and consistent Short Wave foreign, amateur, aviation and police signal reception; 175-550 Meters for splendid coverage of all American and Canadian standard Broadcast programs. The 1938 Knight 16 is America's best long-distance radio!

• **ELECTRIC TUNING.** A 1938 radio miracle. Tunes any eight preselected favorite stations at the touch of a button—works electrically with the utmost ease and accuracy. Here is the simplest and most practical automatic tuning device yet developed. You'll like Electric Push-Button Tuning—just press a button—and flash—there's your program, automatically, unerringly tuned! Anyone, in any location, can easily and quickly adjust the favorite stations desired.

• **SELECT-O-MATIC DIAL.** A new advance in dial design—a large full-vision rectangle with individual full-length horizontal scale for each band. Has vertical pointer; shows names of popular stations on the Broadcast band; clearly indicates all Short Wave channels. The Select-o-matic Dial is a fitting companion to the Electric Push-Button Tuning System.

• **AUTOMATIC FREQUENCY CONTROL.** You can't tune the Knight 16 "off-tone" because the new A.F.C. circuit snaps each program into perfect tune anywhere within range of an station signal you are tuning. And A.F.C. gives Electric Push-Button Tuning its unerring ability to get your station tuned more perfectly than you can tune it by ear.

• **FULL DELAYED A.V.C.** Applied on five of the circuit tubes—a feature found only in radios selling at several times our price—absolutely overcomes fading even on the weakest signals—gives equal intensity and uniform volume strength to all incoming signals picked up by the super-sensitive circuit.

• **DUAL TONE CONTROL.** The 1938 Knight 16 has two separate controls—one for bass—one for treble. This type of dual control achieves proper acoustical correction for any program in any room. It is entirely different from conventional tone controls because it does not cut off frequencies. Provides absolute and completely effective response at either or both ends of a musical range extending from 30 to 6000 cycles. This dual high-fidelity control will delight the most critical musical ear because it matters the full tonal range from deepest bass to highest treble.

• **R. F. ON ALL BANDS.** This feature is found only in the most expensive custom-built radios. Gives the utmost in selectivity, sensitivity and low noise level. Two double-tuned I.F. stages are also incorporated. (Sensitivity in absolute 2 Mv. measured at 50 milliwatts on all bands! Selectivity is 10 to 10 K.C.C. at 10 x power!)

• **BASS AMPLIFIER.** A special, separate bass amplifier is built into the Knight 16. This amplifier handles bass frequencies exclusively—a circuit and design innovation found hitherto only in laboratory and Broadcast studio amplifier instruments.

• **15-INCH DYNAMIC SPEAKER.** A newly developed full 15-inch Electro-dynamic speaker is used in the 1938 Knight 16. This speaker is designed and qualified by virtue of its power-handling ability and sensitivity to reproduce both voice and music faithfully with high-fidelity tone.

• **1938 RADIO CIRCUIT.** The newest octal tubes are used throughout the R.C.A. and Hazeltine licensed circuit of the Knight 16 as follows: 6K7G as R.F. Amp.; 6K7G as 1st I.F.; 6K7G as 2nd I.F.; 6K7G as A.F.C. Amp.; 6L7G as 1st Det.; 6J5G as Osc.; 6J5G as 1st Audio; 6J5G as 2nd Audio; 6J5G as Bass Amp.; 6H6G as Diode Det.; 6H6G as A.F.C. Control; 6J7G as A.F.C. Control; 5Z3 as rectifier; 2-6L6G as Power Output stages. Outstanding circuit features are: 20 watts output; noise-reducing sensitivity control; 3 gang condenser; double antenna provision; special 3-Die I.F.'s with flat-top characteristics; statically-shielded power transformer; etc.

• **MASSIVE NEW CONSOLE.** The console of the 1938 Knight 16 is magnificently designed and built. It uses four pieces of costly rich-finished walnut in design that is neatly conceived for perfect harmony in the home. The center is a one-piece burl-walnut panel forming at a rolled top both front instrument and top panel. This center panel is bordered on three sides by imported, richly grained mahogany. Beautifully beaded at top and continue around full depth of side. The entire console is hand-rubbed to a high piano finish. Size: 44" high, 14" deep, 26" wide.

• **CONSOLE MODEL COMPLETE.** The 1938 Knight 16 Tube All-Wave Superhet with Electric Tuning complete in console with 15-inch speaker and R.C.A. tubes. For 110 volts, 60 cycles A.C. Shipping weight, 110 lbs. Code: STRONG.

B10525 Retail Value, \$175.00.

YOUR NET PRICE EACH.....

(For efficient aerial, see listing on page 99.)

KNIGHT 16 TUBE CHASSIS MODEL

The Knight 16 Tube All-Wave Superhet with Electric Automatic Tuning is also available in the de luxe chassis form illustrated at right. Includes all of the superlative features described above: 3 Band World-Wide Range; Electric Push-Button Automatic Tuning; Select-o-matic Dial; Automatic Frequency Control; 20 Watts Output; R.F. on all bands; 15-inch Electro-dynamic speaker; Bass Amplifier; Dual Tone Control; Full Delayed Automatic Volume Control; 2 Stages of Double-tuned I.F.; 3 gang condenser; doublet connection; latest octal tubes each delivering the utmost for magnificent power and performance. Exactly as described above. A big, beautifully built chassis, made up of the finest components that can be used. The tuner chassis measures 14" wide, 11 1/2" deep, 11 1/2" high. Separate power supply chassis measures 12" x 8" x 3 1/4". Complete with Electric Tuning and dial mechanism, 15" dynamic speaker and R.C.A. tubes. For 110 volts, 60 cycles A.C. Shps. wt., 60 lbs. Code: EXACT.

B10526 Retail Value, \$125.00.

NET PRICE EACH.....

\$84.95

\$61.95



R.C.A. & HAZELTINE LICENSED

Knight 9 TUBE ALL-WAVE A. C. SUPERHET



A Super VALUE

9 TUBES WITH THE POWER OF 11

The 1938 Knight All-Wave 9 Tube Superhet with 8-inch Dynamic Speaker is offered complete with Raytheon tubes in the splendid table model illustrated above. For operation from 110 volts, 60 cycles A. C. Code: ROYAL. Sbg. wt., 30 lbs.

B10516.
Retail Value, \$69.50.
NET PRICE EACH, \$32.75.
NET PRICE,
LOTS OF 3, EACH.....

\$30⁸⁵

- 3 Full Bands
- Slide-Rule Dial
- Tone Control
- 10 Watts Output
- 3 Gang Condenser
- Latest Type Tubes
- Electric Eye
- Bass Compensation
- R. F. Pre-amplifier
- Full A.V.C. Action
- 8"-12" Speakers
- Uni-Coil System

A new 1938 Knight 9 Tube All-Wave A. C. Superhet which offers more for your money than any other 9 tube receiver made today. This new radio brings you more powerful World-Wide reception, more faithful and enjoyable tone quality, more features, more refinements and more value than you have ever seen at this price.

• **3 FULL BANDS.** The 1938 Knight 9 covers everything on the air: 17 to 52 Meters for foreign and domestic Short Wave programs; 52 to 172 Meters for Short Wave amateur, airplane, ship and police signals; and 172 to 555 Meters for every standard Broadcast American and Canadian station. The Knight 9 is super-selective and super-sensitive—it brings the whole entertaining world of radio to your home—faithfully, powerfully, enjoyably.

• **10" SLIDE-RULE DIAL.** A new 1938 type full-vision dial is used in the Knight 9 for the utmost convenience in tuning any band. This easy-to-read rectangular dial shows three horizontal scales of equal length, one for each band. The Broadcast band is calibrated in kilocycles and the Short Wave bands in megacycles. The Electric Eye is mounted directly above the dial to show you visually when your station is perfectly tuned in. Anyone can operate the Knight 9 with perfect ease and accuracy.

• **10 WATTS OUTPUT.** The high-fidelity, high output audio system used in the Knight 9 circuit employs two 6F6 output tubes in a mighty push-pull combination to develop full 10 watts output of rich, undistorted tone—reproduced with perfect clarity through the 8-inch Electro-dynamic speaker in the table model and the 12-inch type in the console and chassis models. Every program tuned by the Knight 9 is flawlessly re-created and is a joy to listen to.

• **A REMARKABLE CIRCUIT.** The Knight 9 incorporates the finest R.C.A. and Hazeltine licensed 9 tube Superhet circuit using the latest type tubes as follows: 6K7 as R. F. Pre-amplifier; 6A8 as Det.-Osc.; 6K7 as I. F. Amp.; 6Q7 as 2nd Det.-A.V.C.-1st Audio; 6C3 as Phase Inv.; 2-6F6 as P.P. Output; 5Y3 as Rectifier; 6G5 is Electric Eye.

• **ADDITIONAL FEATURES.** Check these extra advantageous features: Bass Compensation on the volume control for full range bass and treble reproduction of voice and music at any volume level; Variable Tone Control for individual tone emphasis; full A.V.C. for uniform maintenance of volume on all programs; new Uni-Coil system with separate coils for each band for unusual stability; R. F. pre-amplifier on Broadcast band for added sensitivity; rubber-cushioned 3 gang condenser with low minimum capacity for extra dependable tuning, etc.

• **MAGNIFICENT NEW TABLE MODEL.** The Knight All-Wave 9 is beautifully presented in a splendid table model cabinet of tasteful design. It is made of vertically striped walnut in one piece, rolled at top and bottom, with a contrastingly finished band centered on the grille opening. Hand-rubbed to a luxurious piano finish. Measures: 21" long; 12 3/4" high; 9 3/4" deep.

Globe-Trotting WITH THE KNIGHT 9

Tune around the world with the Knight 9 on 3 thrill-packed radio bands. The tuning range covers everything; get interesting foreign programs, ships-at-sea, airplane, amateur and police signals—as far as coast-to-coast America and Canadian standard Broadcast. Thrill to the rich, faithful tone reproduced by the 12-inch Electro-dynamic speaker used in the luxurious console model, and enjoy the beauty of this new 1938 radio cabinet design. You will like the woods and finish; the instrument panel is of vertically striped walnut in a roll-top effect. The side pilasters are of curved horizontally striped walnut with contrastingly grained top trims. This new generously designed console measures 42" high, 24 3/4" wide and 12 3/4" deep.

CONSOLE MODEL

The 1938 Knight 9 is offered complete in the beautiful console model illustrated at the left, with full 12-inch Electro-dynamic speaker and Raytheon tubes. Includes all features exactly as described above. An outstanding radio value that sets the pace for 1938. For operation from 110 volts, 60 cycles, A. C. Sbg. wt., 35 lbs. Code: FAITH.

B10518. Retail Value, \$110.00.
NET PRICE
EACH, \$52.50. **\$49⁹⁵**
NET PRICE,
LOTS OF 3, EACH.....

CHASSIS MODEL

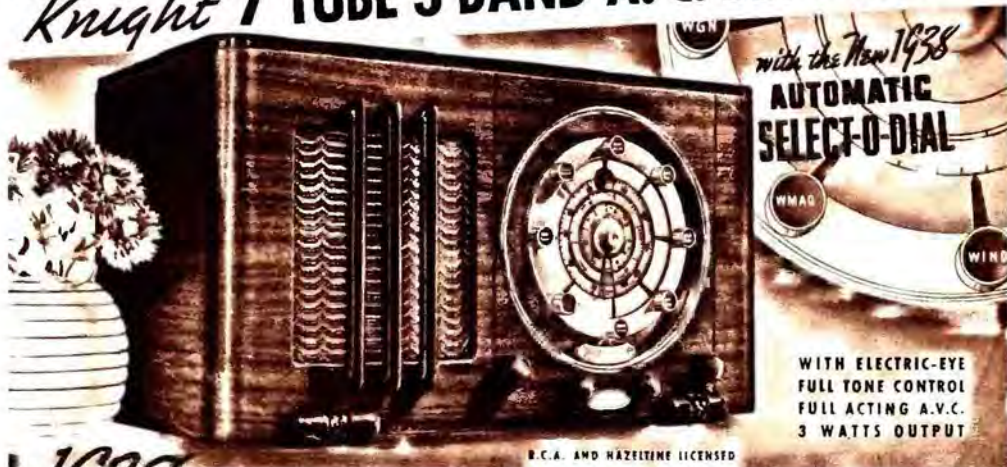
The Knight 9 is offered also in chassis form, incorporating the powerful new circuit described above with 12-inch Electro-dynamic speaker and 9 Raytheon tubes. Measures 12 3/4" x 9 3/4" x 9 3/4". Supplied complete with 10" dial and escutcheon, knobs, etc. For 110 volts, 60 cycles A. C. Sbg. wt., 25 lbs. Code: SWEEP.

B10518. Retail Value, \$67.50.
NET PRICE
EACH, \$31.50. **\$29⁶⁵**
NET PRICE,
LOTS OF 3, EACH.....

(For an efficient serial, see page 99.)



Knight 7 TUBE 3 BAND A. C. SUPERHET



with the New 1938
**AUTOMATIC
SELECT-O-DIAL**

**WITH ELECTRIC-EYE
FULL TONE CONTROL
FULL ACTING A.V.C.
3 WATTS OUTPUT**

R. C. A. AND HAZELTINE LICENSED

"1938 Radio at its Best - at 1938's Lowest Prices"

Here is the last word in 1938 radio—the value-packed Knight 7 Tube All-Wave A.C. Superhet. Tunes everything on the air. Has more features, more power, more sensitivity, more selectivity and finer tone than any other 7 tube radio built today. Just check these features:

• **WORLD WIDE RANGE.** Tunes 16 to 54 Meters for world-wide Short Wave reception; 52 to 178 Meters for Short Wave police, amateur, ships, airplane and commercial signals; and 174 to 560 Meters for upper police channels and all American and Canadian standard Broadcast stations. The Knight 7 has an extra performing ability in reserve; it has more power, more responsiveness, more faithful reception than any other 7 tube radio.

• **AUTOMATIC TUNING.** The 1938 Knight 7 tunes your favorite local stations automatically, with true ease and precision. The 1938 Select-o-Dial provides buttons for ten of your favorite stations. Put your finger on the station button you want, swing the tuning wheel down to the stop point—and there's your station—tuned in instantly, perfectly! It's as easy as pointing a finger. Anyone can adjust Automatic Tuning for any desired stations. And the Knight 7 can also be tuned in the regular manner for all additional domestic and foreign stations.

• **GIANT NEW DIAL.** In addition to true Automatic Tuning, the Knight 7 has a regular large 4 1/2 inch full-vision (illuminated) dial. Each band is separately and clearly indicated; Broadcast channels are calibrated in kilocycles; Short Wave bands are shown in megacycles with popular channels clearly designated. The built-in Teleye is an added feature.

• **A SUPERB CIRCUIT.** A brilliantly-engineered R.C.A. and Hazeltine licensed superhet circuit is used in the Knight 7. Latest tubes are incorporated: 6A7 as Osc.-Mod.; 6D6 as I.F. Amp.; 76 as Det.-A.V.C.; 75 as 1st Audio; 41 as Audio Output; 80 as Rectifier; 6C5 is Electric Eye. This tube line-up means powerful distance-reach and strong reproduction of programs on all wave bands.

• **OUTSTANDING NEW FEATURES.** Knight 7 incorporates all of the following: Electric Eye for visual accurate tuning (built into the new Select-o-Dial); has Variable Tone Control for bass or treble emphasis; Automatic Volume Control for uniform volume maintenance; the finest Electro-Dynamic speakers (6-inch in table model—8-inch in console) for flawless reproduction at all volume level; giant 3 watts undistorted power output for magnificent tonal beauty; rubber-floated tuning condenser and chassis for maximum stability; 6 tuned circuits on each band; doubling antenna connection, etc. Every one of these features contributes to powerful world-wide reception and radio's richest tone quality.

• **BEAUTIFUL TABLE MODEL COMPLETE.** The Knight 7 is offered in the beautiful 1938 table model cabinet illustrated above. Has front face and roll-ends of one-piece choice horizontally grained walnut, with walnut top. Size: 19 1/2" x 17 1/2" x 21 1/2". Complete with 6" Dynamic Speaker and R.C.A. tubes. Shipping weight, 20 lbs. Code: PRIZE.

B10585, List Price, \$57.50.
NET PRICE EACH \$27.65.
YOUR PRICE, LOTS OF 3, EACH.....

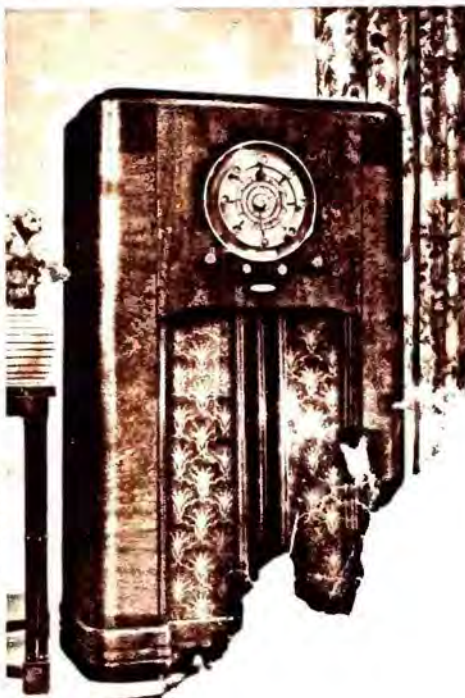
\$25⁸⁵

Beautiful 7 TUBE CONSOLE Model

The 1938 Knight All-Wave 7 is also presented in a new console model of more than distinguished appearance. This beautiful creation has an instrument panel of butt walnut with rolled side pilasters of horizontally striped and matched walnut, enhanced by top trims of vertically striped walnut. The console measures 38 1/2" high, 22 1/2" wide and 11" deep. It will add graceful dignity and charm to any decorative scheme. The Knight All-Wave 7 A.C. Superhet in console model has all of the features described above: Automatic Select-o-Dial; Electric Teleye; 3 Band Range; Full Variable Tone Control; Automatic Volume Control; 3 Watts Power Output; Doublet Antenna Connection; rubber-floated chassis and tuning condenser, etc. Comes complete with highest-quality 8-inch Electro-Dynamic speaker and genuine R.C.A. tubes. Shipping weight, 52 lbs. Code: SPRING.

B10586, List Price, \$72.50.
NET EACH, \$38.35.
YOUR PRICE, LOTS OF 3, EACH.....

\$36⁷⁵



The new 1938 Knight All-Wave 7 A.C. Superhet in table model, with Automatic Select-o-Dial, complete with 6" Speaker and R.C.A. tubes. For operation on 110 volts, 60 cycles, A.C. Shpg. wt. 20 lbs. Code: PRIZE.

B10585, Retail Value, \$57.50.
NET EACH, \$27.65.
YOUR PRICE, LOTS OF 3, EACH

The Knight A.C. 7 can also be had for operation on all voltages from 95 to 260 Volts, 25 to 60 cycles, A.C. at \$2.50 extra.

\$25⁸⁵

Knight 6 TUBE 3 BAND A. C. SUPERHET

R. C. A. AND HAZELTINE LICENSED



**ELECTRIC EYE
3 WAVE BANDS
TONE CONTROL
3½ WATTS OUTPUT
NEW 6 INCH DIAL
FULL-ACTION A.V.C.
6" DYNAMIC SPEAKER**

\$1975

B10500. The Knight 6 Tube All-Wave A.C. Superhet, complete with Raytheon tubes.
Retail Value, \$42.50.
NET EACH, \$20.75.
YOUR PRICE, LOTS OF 3, EACH, \$19.75.

• **WORLD-WIDE RANGE.** A new 1938 Knight 6 Tube A.C. Superhet that everyone can afford. Powerful, selective, sensitive—it brings you world-wide radio entertainment on three full wave bands. Covers foreign and domestic Short Wave between 11-52 Meters; police, aviation and amateur phone between 52-175 Meters; and long-distance American and Canadian standard Broadcast stations between 172-555 Meters.

• **TELEVE TUNING.** The unerring Electric Eye is incorporated in the new Knight 6. It provides the silent way to better tuning and perfect tone. You just watch the shadow in the glowing eye; when it is narrowest you are tuned in perfectly.

• **GIANT 6" DIAL.** The new dial of the Knight 6 is fully illuminated and accurately calibrated on each band. The upper scale is calibrated in kilocycles for the Broadcast band; the middle and lower scales are in megacycles for tuning foreign and domestic Short Wave. Individual lit-wound coils and special wave-band switch make for maximum tuning efficiency.

• **6½" DYNAMIC SPEAKER.** The oversized heavy-duty Electro-dynamic speaker used in the Knight 6 faithfully handles the full 3½ watts output of the circuit with wide-range tonal fidelity. Voice and music are reproduced flawlessly at any volume level.

• **A WORLD OF POWER.** The Knight 6 develops full 3½ watts output from its perfected R.C.A. and Hazeltine licensed Superhet circuit. Latest Raytheon tubes are used; 6A8 as Det.-Osc., 6D6 as I.F. Amp.; 607 as 2nd Det.-A.V.C.—1st Audio; 41 as Power Output; 80 as Rectifier; 6U5 is Electric Eye. This fine 1938 circuit actually develops 8 tube efficiency.

• **TO NE CONTROL.** Continuously Variable Tone Control as incorporated in the new Knight 6 provides for the accentuation of either high or low notes, as desired. Makes the Knight 6 a more "personal" receiver—doubles your radio enjoyment!

• **GLORIOUS TONE.** The clear, rich tone of the Knight 6 brings new joy to radio listening. Never before has such vital and realistic tone quality been available in a radio receiver at such a modest price.

• **FULL A.V.C.** Maintains constant volume level, prevents fading on Short-Wave signals and blasting on local stations. Has rubber-floated tuning condenser for smoother tuning.

• **NEW CABINET.** The Knight 6 is housed in a gracefully proportioned table model cabinet whose pleasing beauty will harmonize anywhere. The front panel is of carefully matched walnut woods with a chaste grillwork design. Measures 19½" x 11" x 9½".

• **SET COMPLETE.** The Knight 6 Tube All-Wave Superhet is offered in table model illustrated above, complete with Raytheon tubes. For operation on 110 volts, 60 cycles, A.C. Ship. wt. 22 lbs.
Code: PLANE.

B10500.
Retail Value, \$42.50.
NET PRICE EACH, \$20.75.
PRICE, LOTS OF 3, EACH

For operation on any voltage from 110 to 230 volts, 25 to 60 cycles A.C., add \$2.85.

\$1975

Beautiful New ARMCHAIR Model

The Knight 6 Tube All-Wave A.C. Superhet is also available in the new 1938 Armchair Model as illustrated at the left. The very latest word in beautiful radio styling and tuning convenience. Beautifully proportioned, with both sides and top rolled of one-piece selected, grained walnut. Gracefully curved shelves are useful as well as decorative. The Armchair Model measures 26½" high, 21½" wide, 17½" deep. Complete Knight 6 Tube A.C. 3 Band Armchair Superhet with all features as described above; with 6½" dynamic speaker and Raytheon tubes. Shipping weight, 41 lbs.

Code: EAR711
B10522. Retail Value, \$57.50.
NET PRICE EACH, \$27.50.
YOUR PRICE, LOTS OF 3, EACH, \$25.95

\$25.95

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Printed in U. S. A."



1938 SMASH RADIO HIT!

IN LOTS OF 3

Each \$ **17.95**



R.C.A. AND HAZELTINE LICENSED

Knight 7 TUBE A. C. SUPERHET

- ELECTRIC EYE
- 2 FULL BANDS
- 3 BAND UTILITY
- TONE CONTROL
- FULL-ACTING A.V.C.
- 6" DYN. SPEAKER
- 4½ INCH DIAL
- 3 WATTS OUTPUT



ALLIED opens the 1938 Radio Season with a real Smash hit—a new **Dual-Wave Knight 7 Tube A.C. Superhet** that's literally packed with value! Here's the radio pacemaker for 1938—rich in the latest practical features, unmatched at the price for strong power and wide distance reach, distinguished for its gloriously full true tone and its handsome looks. You can't buy better built-in quality or more reliable performance at even twice the price. In the new 1938 **Knight 7**, **ALLIED** again brings you Radio's Outstanding Value!

• **3 BAND UTILITY.** The 1938 **Knight 7** tunes from 47 to 150 Meters to bring in Short Wave police, aviation and amateur phones, as well as fascinating foreign reception on the popular 49 Meter foreign Short Wave channel. The second band covers 174 to 556 Meters and tunes the upper police channel and all American and Canadian standard Broadcast stations. These two bands with their complete coverage of all important channels actually give you the advantage of three band reception. Whether you tune standard Broadcast or Short Wave, local or distant stations, the new **Knight 7** offers you exceptionally strong, thoroughly pleasing reception of all programs.

• **TELEVE TUNING.** The accurate cathode-ray Tuning Eye used in the **Knight 7** assures enjoyable, scientifically-precise tuning. You can tune with the volume down—and there's your station—perfectly tuned—noiselessly, unerringly! This feature is generally found only in the higher-priced sets. It's a real contribution to tuning ease.

• **BEAUTIFUL EDGE-LIGHTED DIAL.** Latest 1938 type! Easy-to-tune; attractive in appearance. Measures 4½" x 4". Has a handsome gold face which is fully illuminated from the sides. All calibrations are in large clear characters. Two legible scales are indicated, the upper calibrated in kilocycles for standard Broadcast tuning, the lower marked in megacycles for Short Wave logging. The important Short Wave channels are plainly designated. You will like this practical, attractive radio dial.

• **6 INCH DYNAMIC SPEAKER.** A full-sized 6-inch Electro-dynamic speaker of the finest make is used in the **Knight 7**. It reproduces both voice and music with amazing faithfulness at all volume levels. Never before has there been such stirring tonal realism in a table model radio at so low a price.

• **3 WATTS OUTPUT.** The **Knight 7** develops a maximum power output of 3 watts! This power is thrillingly rendered as flawless enjoyable tone—full and rich at all volume levels.

• **TO NE CONTROL.** Continuously variable—a big extra feature usually found only in much higher-priced sets. Permits emphasis of bass or treble response to suit personal tastes. Adds to the tonal beauty of the **Knight 7**.

• **1938 CIRCUIT.** The R.C.A. and Hazeltine licensed Superhet circuit of the **Knight 7** assures the newest developments from these great laboratories. The latest tubes are used as follows: 6A7 as Mod.-Osc.; 6D6 as I. F. Amp.; 76 as Det.-A.V.C.; 75 as 1st Audio; 41 as Audio Output; 80 as Rectifier. 6G5 is Electric Eye. Other features include: Automatic Volume Control to maintain uniform volume; rubber-floated tuning condenser and chassis; 6 tuned circuits on each band; highest quality parts with wide safety factors.

• **LATEST CABINET.** The **Knight 7** is beautifully housed in the newest lay-down cabinet featuring "roll" top and bottom effect. Front face is of choice vertically-striped walnut. Measures 17 x 8 x 10¼ inches.

• **A 540 VALUE.** The **Knight 7 Dual-Wave** is offered in the new and beautiful cabinet illustrated above, complete with R.C.A. tubes. For operation from 110 volts, 60 cycles A.C. Code: CROWN. Shipping weight, 17 lbs.

B10560.
Retail Value, \$40.00.
NET PRICE EACH, \$18.95.
YOUR PRICE LOTS OF 3,
EACH, \$17.95.
For operation on all voltages from 95 to 260 volts 25 to 60 cycles, A.C., add \$2.00.

\$17.95

Beautiful New **ARMCHAIR** Model

The 1938 **Knight Dual-Wave A.C. 7** is also available in the popular chair-side model illustrated at the left. Designed in the latest mode, this new type of cabinet offers the last word in convenient and luxurious radio tuning. Actually puts the world of radio enjoyment at your elbow. The **Knight 7 Armchair Model** is designed along pleasing flowing lines with instrument and speaker panel of one-piece, vertically-grained walnut. Size: 23" high, 18" deep, 11 ¾" wide. Complete with 8" Speaker and R.C.A. tubes. Shipping weight, 33 lbs. Code: CHAIR.

B10561. Retail Value, \$62.50.
NET PRICE EACH, \$29.95.
YOUR PRICE LOTS OF 3, EACH, \$28.45

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