



1933 RADIO

..SETS TUBES
REPLACEMENT PARTS
TEST EQUIPMENT
SERVICE MEN'S SUPPLIES

Allied Radio
CORPORATION

833 W. JACKSON BLVD. CHICAGO ILL.

PROFIT BY LOWEST

ALL PRICES TAX FREE

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In this way we bring you additional savings and lower prices. The result of the modern ALLIED merchandising method is strikingly evident in the unparalleled low prices you will find on every page of this catalog.

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The combination can't be beaten. Get to know it, and profit by the acquaintance.

**CENTRALLY
LOCATED
FOR YOUR
CONVENIENCE**



QUALITY

All receivers and parts illustrated in our catalog are first quality, up to manufacturers' highest standards. We do not buy jobs, seconds, substandards or any apparatus that does not come up to our rigid standards. We will not sacrifice quality for price.

SERVICE

Your orders receive immediate, careful attention at ALLIED. We are organized to handle a tremendous rush of business. Our highly trained organization functions with one idea uppermost in mind—"to fill every order with absolutely no delay or sacrifice of accuracy."

VALUE

The prices in this book will startle you. We invite comparison, confident that item for item our values can't be beaten. Remember too, four transportation charges are usually less because of our ideal central location. Our freight allowance is another inducement to centralize your buying with ALLIED.

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The profits you make by dealing with ALLIED are reflected not only in our extremely low prices that defy competition, but also in the high quality of our merchandise, which results in satisfied customers who reorder again and again. Cash in on these added profits that good-will brings.

TERMS

Our terms are cash to all. Selling on these terms eliminates expensive bookkeeping and credit losses. These savings we pass on to you in reduced prices. Shipments made C. O. D. to old customers. On first order, please send deposit to establish good faith. All prices in this book are net to you—all trade discounts and the 2% cash discount have already been deducted. No federal tax to be added; these quotations are tax free to you.

ALLIED RADIO CORPORATION

833 JACKSON BLVD., CHICAGO, ILL

PRICES EVER OFFERED

FIRST QUALITY MERCHANDISE

We must warn our customers against the flood of "gyp," substandard radio receivers and parts being offered to unsuspecting dealers and service men. Manufacturer's seconds, job lots, factory rejects and all manner of what is really junk is being doctored up to look like new and offered in glowing, misleading terms, at prices slightly below the cost of first standard goods. Don't be fooled; such material placed in your customer's set will lead to far more grief, expense and loss of good will than the original slight savings.

ALLIED is an old established organization, which has won the continued confidence of many thousands of customers since the earliest days of radio. We are in business to stay. You are assured of receiving first quality goods at all times and a fair and square adjustment under our guarantee.

FULL DISCOUNTS TO ALL CUSTOMERS

A 2% cash discount has been deducted from all prices in our book. If you send cash in full with your order you save the C. O. D. collection charges. But if you prefer part C. O. D. shipment, you still receive the full 2% cash discount to which you are entitled.

AMONG ALLIED CUSTOMERS

ALLIED is proud to number among its customers the U. S. Government, practically all of the leading Universities and Colleges, Broadcasting Stations and many thousands of radio dealers, service men and manufacturers throughout the land, who are acquainted with ALLIED reliability and cooperation.

THE ALLIED PERSONNEL

It is important to know the caliber of the organization with which you do business. Every department in our organization is captained by an executive whose experience and ability make him worthy of his job. Our buyers are alert to bring the best that the market affords, at money saving prices. Your orders are sped on their way by an efficient operating force supervised by executives of long experience. In every division you can depend on efficient, careful, speedy service at all times.

RELIABLE SELLING

You cannot afford to gamble with your customers. Neither can we. That's why we offer Reliable A-1 Quality and Service only. Every article in our book measures up to its claims. Some mail order firms are making extravagant claims entirely out of proportion to the quality and value of the merchandise offered. Beware of that type of selling. It isn't good business. ALLIED is proud of its repeat business from old customers. You can depend on us for quality and service.

PROMPT SHIPMENTS

Prompt service is absolutely necessary in this age. You want your order to reach you in the shortest possible time. With an organization developed to handle enormous volume promptly and accurately you are assured of top-notch service. We have the advantage of being in the very center of all forms of transportation. Try us when speed is a factor. You will be pleasantly surprised.

DON'T SPLIT YOUR ORDER

ALLIED can supply anything and everything in Radio. If the item you want is not listed in our catalog, we can supply it in practically every instance, and at prices equal or lower than you can obtain elsewhere. If listed in some other catalog or radio publication, mention where you saw it and we will supply.

FOREIGN CUSTOMERS

We have a large foreign trade and invite foreign patronage. Foreign orders and correspondence are supervised by an experienced executive. Send letter of credit on Chicago or New York exchange of at least 50% of the total. On orders less than \$25.00 send remittance in full. All quotations F. O. B. Chicago. On parcel post shipments send sufficient remittance to cover postage. Any excess will be promptly refunded.

We Pay the Freight



on all orders of! \$25.00 or more!

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 or repair.

Make your order \$25.00 or more and we will pay freight charges up to \$2.00 per hundred pounds. This offer makes our low prices even lower. It places the goods on your floor at prices below competition and means added profit. This offer applies on all merchandise in our catalog except A and B batteries, Aerial Wires, Insulators, and Consoles less chassis.

Send in your paid freight bill with order number on label of the shipment and we will either send you our check or apply the allowance on your next order, as you prefer. You may order shipment to go by Express or Parcel Post—a proportionate allowance will be made. Take advantage of ALLIED'S liberal freight allowance offer. It will save you money and give you a greater profit margin.



KNIGHT 8 tube

The Last Word In Radio

The 1933 Knight 8 is offered with the utmost confidence in its ability to produce greater power, more life-like tone and better sensitivity and distance reach than have been possible heretofore in radio. Brilliance and thoroughness in the design of the R.C.A. licensed Superhet circuit, built up to wonderful efficiency around the amazing new high gain triple grid tubes, give the Knight 8 a new meaning. Pentode volume, full range tone control, and quiet automatic volume regulation offer you a world of reserve power, hum-free undistorted volume and a flawless purity of tone. The Knight 8 is pictured at the left in a beautifully proportioned matched walnut cabinet standing 40 in. high, a perfect housing for a perfect receiver.



LICENSED BY RCA

\$29⁹⁵

R.C.A. LICENSED SUPERHET

8 tube CHASSIS

WITH NEW TRIPLE GRID TUBES

The wonderfully constructed chassis of the Knight 8 pictured at the right is compactly designed to employ the new type tubes and is built mightily to give you the longest and most efficient life a radio ever had. Three new 56, one 57, and two 58 type tubes do wonders for its vivid tone and surging power. You can reach out an amazing distance with this precision instrument, and every station will come in clearly separated and with wonderful volume and tonal beauty. Chassis size, 13" wide, 9 1/2" deep, 7" high.

8 WONDERFUL CIRCUIT FEATURES

1. New type triple grid tubes.
2. Quiet automatic volume control.
3. Four Pentode tubes.
4. Full range tone control.
5. Spotlight tuning, full vision dial.
6. R.C.A. licensed Superhet design.
7. Jensen speaker.
8. Inter-Station Noise Suppressor.

CHASSIS LESS TUBES

The Knight 8 chassis is offered here without speaker but without tubes.
No. E9730.
 List Price, \$49.95.
YOUR PRICE... \$22⁹⁵

CHASSIS WITH TUBES

The Knight 8 chassis and speaker, with 3-56, 1-57, 2-58, 1-47, and 1-80 R.C.A. tubes.
No. E9731.
 List Price, \$61.45.
YOUR PRICE... \$28⁴⁵

Super Power

Vast reserves of power are built up in the Knight 8 heavy duty power pack and plenty of volume is always ready for any kind of reception, far or near. The super-efficient pentode audio and the brand new Inter-Station Noise Suppressor render this unlimited volume absolutely free from distortion and help create a perfectly life-like tone.

The New Tubes

The newly developed 56, 57 and 58 type triple grid Super-Phonic tubes used in the Knight 8 circuit produce practically double the sensitivity of last year's sets, make for more economy in operation, assure absolutely quiet, quick-heating operation, sure volume control, a beautiful command of tonal range, and an all-around super-efficiency.

QUIET AUTOMATIC - Brighter Tone - More Power

In the new Knight 8, tonal reproduction is accomplished against a wonderfully flawless background of unlimited volume, and projected through a carefully matched dynamic reproducer bearing the famous name of Jensen. There is fidelity of tone at all ranges, and a perfect mastery of the individual notes you may desire to hear by means of the Tone Control. Quiet Automatic Volume Control assures delightful hum-free reception at all times. All of the former obstacles to perfect radio have been overcome in the tone and power of the Knight 8.

Complete Less Tubes

The Knight 8 is offered in console shown at left, with speaker, but without tubes.
No. E9732.
 List Price, \$65.95.
YOUR PRICE... \$29⁹⁵

Complete With Tubes

Offered complete, with 3-56, 1-57, 2-58, 1-47, and 1-80 genuine R.C.A. tubes. An astounding value.
No. E9733.
 List Price, \$77.45.
YOUR PRICE... \$35⁸⁵



\$22⁹⁵

FULL RANGE TONE CONTROL

SUPERHETERODYNE

A MARVEL OF EFFICIENCY

We want each of our customers to know in detail the wonderful circuit design of the Knight 8. The new Super-phonie tubes are used in it as follows: 1—58 in an R.F. stage, 1—37 as First Detector, 1—56 as Oscillator, 1—58 as I.F. Amplifier, 1—56 as Second Detector and AVC, and 1—58 as First Audio. 1—47 tube is used as a power tube and 1—80 as rectifier. Silent Automatic Volume Control and Full Range Tone Control are achieved in the Knight, and Spot-light Tuning and the Inter-Station Noise Suppressor are brand new features.

A WINNING COMBINATION

The Knight 8 has been appropriately placed in a splendid new radio console which is distinctly appealing in its beauty and sturdy in its construction. It is a midbody of the artistic turned six-leg type. It has fluted pilasters, arched proscenium of maple with scroll overlays and a handsome shaped grille. It stands 42 inches high and is perfectly proportioned and acoustically correct for use with the Knight 8 for which it was specifically built.

VOLUME CONTROL

MAGIC NEW TUBE PERFORMANCE

The new type triple grid Super-phonie tubes improve both the radio frequency and audio frequency operation of the set immensely. They mark Knight 8 performance as the last word in split-hair selectivity, powerful sensitiveness, perfect volume control, and quiet operation. Then, too, the new tubes mean real economy in operation because they cut down considerably on power consumption. They make possible the perfect operation of an automatic built-in volume control which eliminates fading, assures a constant powerful flow of volume for all reception and makes tuning easy and pleasurable. The Knight 8 is most certainly the radio of the hour, combining as it does supreme achievements in radio design, together with the finest materials available, at prices that are in tune with the times.

BRILLIANT TRUE TONE

It's a thrilling experience to listen to the Knight 8. There is a distinctly individual and life-like reality in every sound reproduced. The tonal output of each program is built up to a rare golden beauty in which every overtone and every frequency of the whole sound range has been keenly captured and sustained through the famous Jensen Dynamic speaker. And there's Tone Control too—perfected to a high degree so that by the turn of a knob you can emphasize for yourself the notes you enjoy hearing the most.

A beautiful life like tone that high quality brings.

FULL VISION

SPOT LIGHT DIAL

DELIGHTFUL TO TUNE

Note the simple arrangement of the Knight 8 controls, the clear visual dial with the Spot-light innovation, and the volume and tone control knobs, all designed to eliminate guesswork and make tuning extremely simple and enjoyable.

INTERSTATION NOISE SUPPRESSOR

A new and wonderful device, which enables you to tune in stations without interference or static of any kind, is located on the front panel and is simple to operate.



LICENSED
by RCA

34⁴⁵

**4 NEW
PENTODES**

LIMITLESS POWER

Pentode power has proved marvelous in the newer radios and in the Knight 8 it has been developed to its fullest advantage. It produces splendid volume, with plenty to spare, and all of it with a new standard of absolutely quiet operation.

SUPERHETERODYNE PLUS!

The RCA licensed circuit of the Knight 8 is of the latest superhet type. It assures you the maximum in economical efficient operation. It is the set of today, priced right for today.

Consider the outstanding features of the set circuit and the extreme beauty of its external appearance, and then look at the price. There is no radio value on the market today that is comparable to ALLIED'S astounding presentation of the Knight 8 Superheterodyne. It's the set you and your friends have been waiting for—a radio receiver that offers the latest and best features found only in the most expensive sets, but offered now at a price you can afford.

COMPLETE, LESS TUBES

The Knight is offered here in the cabinet pictured above at the right, with speaker, but without tubes \$34⁴⁵
No. E9734.
List, \$74.95.
YOUR PRICE

COMPLETE WITH RCA TUBES

Here is the Knight 8 complete with 3—56, 1—57, 2—58, 1—47 and 1—80 RCA tubes.

No. E9735. \$39⁹⁵
List, \$86.45.
YOUR PRICE.

NEW SUPERHETERODYNE CIRCUIT

Genuine RCA MODEL 21 RADIOLA 5

BATTERY OPERATED RECEIVER

FAMOUS RCA RECEIVER

This genuine RCA Battery receiver brings within easy reach of every home without electric current, wonderfully clear and faithful radio reception. This set quoted at a bargain price can be operated with great economy and efficiency. Here is a world famous RCA radio renowned for its beauty and operating perfection, offered at a sensational price that is a mere fraction of its original retail value.

A QUALITY SPEAKER

The famous RCA 103 Speaker is recommended for use with the Radiola 21. It is both beautiful in appearance, and splendid in its ability to yield a remarkably clear tone, with real depth and fidelity. Our supply of these speakers is limited and we urge you to order at once. When our stock is exhausted we shall substitute another appropriately matched magnetic speaker of the highest quality.

WELL-KNOWN BATTERY CIRCUIT

The Radiola 21 employs two 232, one 231, and two 230 screen grid tubes in its efficient circuit of two R.F. stages, two A.F. stages, and a tuned detector. It features a local-distance switch which permits more uniform sensitivity, making possible increased distance range and better selectivity. Plenty of clear quiet volume is built up in the audio circuit to render pure tone quality over a wide range of frequencies. You will be amazed at the efficient, economic operation of this advanced battery operated radio.

NO. E9931. SET ONLY. RETAIL VALUE. \$45.00

SET ONLY \$ **9⁴⁵**



With
RCA 103
Speaker

UNUSUAL CABINET DESIGN

The cabinet of the RCA 21 is pleasingly built of Philippine mahogany beautifully embellished by a charming center carving and clever control escutcheon. A novel feature of the set is the shadow dial which throws illuminated numerals on a translucent window when the set is in operation. The compact cabinet measures 19 1/2 in. long, 10 in. high, and 9 1/2 in. deep.

POWERFUL 2 VOLT S. G. TUBES

Five of the late type screen grid 2 volt tubes are employed in the Radiola 21. They are designed to operate from a 2 volt storage "A" battery. These new low-draw tubes save "B" battery current, and yet they exceed in power and tone, the older type battery tubes. 2 volt screen grid battery performance is comparable to that of the smaller modern all-electric sets. Enjoy far-reaching sensitivity, great power, and wonderful radio tone with this set, even if you have no electricity in your home.

SET AND SPEAKER

The famous RCA 21 is offered here in its beautiful table model cabinet with speaker, but without table or accessories. Each set is a brand new, genuine RCA product in its original factory carton.

No. E9932.
Retail Value, \$75.00.
YOUR PRICE... **\$12⁷⁰**

Set, Speaker and Table

The RCA 21 table model battery radio offered with speaker and a fine table which serves admirably to house all batteries. Made of walnut, measuring 30 in. high, 22 1/2 in. wide, and 11 1/2 in. deep. Less accessories.

No. E9933.
Retail Value, \$85.00.
YOUR PRICE... **\$18⁴⁵**

SET, SPEAKER, TABLE AND ALL ACCESSORIES

Here is the Radiola 21 offered with speaker, table, and all necessary accessories. These include 2-232, 1-231, and 2-230 tubes; a 2 volt storage "A" battery, 3-45 volt "B" batteries, a 22 1/2 volt "C" battery and aerial and ground equipment. Nothing more to buy. Packed in original factory cartons—each set brand new and genuine RCA. A real bargain. Send your order in at once so that you may be assured of obtaining one of these splendid radios.

No. E9934.
Retail Value, \$108.75.
YOUR PRICE... **\$32⁷⁵**

KNIGHT BATTERY OPERATED SUPERHETERODYNE

LONG & SHORT WAVE RECEPTION

New features galore are packed into this Knight 8 Tube Battery Operated Triple-Wave Radio. Its triple scale Spotlight dial tunes from 20-65, 65-200, and 200-550 meters. Perfect daytime short wave as well as long wave reception is assured. The superhet circuit employs new type 34 tubes which have magnified volume and sensitivity immensely and made for more economical operation. Quiet Automatic Volume Control, new Push-pull Audio, and the 3 position wave switch are added up-to-the-minute features.

CLASS "B" POWER

The famous new Class "B" Power Audio found only in the most expensive new AC sets, is incorporated in the Knight 8 Battery radio. The new type low drain tubes have increased volume enormously, accomplished quiet operation, made better tone quality and automatic volume control possible, reduced battery consumption and achieved real sensitivity and selectivity.

WALNUT BEAUTY

The Knight 8 Battery set console is of the new turned 6 leg design, featuring a beautiful walnut front panel flanked by curved, fluted pilasters. Delightfully finished in walnut, stands 42 in. high, 25 in. wide, and 13 in. deep.

BATTERY OPERATED SUPERHET & CHASSIS

The wonderful superhet circuit of this finest of battery radios features Class "B" audio power, automatic volume control, 20-550 meter range, and push-pull low drain audio. The chassis is ideal for console installation, measuring 11 1/2 in. long, 7 in. high, and 7 1/2 in. deep.

OVERSIZE SPEAKER

The tremendous output of the receiver is adequately handled by a large permanent magnet dynamic speaker which does full justice to the wide tonal range of the receiver, achieving flawless clarity in tone and power.

LESS TUBES

The Knight 8 Battery radio is offered here in chassis form only, with speaker, but less tubes.

No. E9760.

Retail Value, \$62.50.
YOUR PRICE

\$27⁹⁵

WITH R. C. A. TUBES

The Knight 8 Battery chassis with speaker and 2-48, 2-34, 2-32 and 2-30 R.C.A. tubes.

No. E9761

Retail Value,

\$78.50.

YOUR

PRICE

\$35⁹⁰

\$27⁹⁵

BATTERY OPERATED MIDGET

5 TUBE SHORT & LONG WAVE MARVEL

A wonderful battery operated 5 tube All-wave set covering from 75-550 meters. It features five tuned circuits employing the new type 34 low drain tubes. Absolute 1 microvolt sensitivity enables the Knight 5 to master great distance both in long as well as in short wave reception. The unique Sector Vision dial makes tuning a pleasure. The attractively designed two-tone table cabinet measures 12 in. high, 7 in. wide, and 6 in. deep.

NINE SPLENDID NEW FEATURES

1. The new low-drain type 34 tube. 2. Long and short wave range from 75-550 meters. 3. 5 tuned circuits. 4. Full range Tone Control. 5. Quiet Automatic Volume Control. 6. Interstation Noise Suppressor. 7. Sector Vision Dial. 8. Oversize dynamic type speaker. 9. 1 Microvolt sensitivity.

SET & TUBES, LESS BATTERIES

The Knight 5 Dual Wave Battery set less batteries with 2-32, 1-33, and 2-34 R. C. A. tubes.

No. E9727. Retail Value, \$39.95.

YOUR PRICE

\$19⁹⁵

SET, TUBES & BATTERIES

The Knight 5 complete with 2-32, 1-33, 2-34 R.C.A. tubes and 3-45 v. "B" and 1-2 v. Eveready Air Cell batteries.

No. E9729. Retail Value, \$53.75.

YOUR PRICE

\$28⁵⁵

\$19⁹⁵
WITH RCA TUBES



20-550 METER RANGE

LESS TUBES & BATTERIES

The new Knight 8 Battery set is offered here in its exquisite cabinet together with speaker, but without tubes or batteries.

No. E9764.

List, \$87.50.

NET

\$39⁸⁵

COMPLETE LESS BATTERIES

With 2-49, 2-34,

2-32 and 2-30 R.C.

A. tubes, but less

batteries.

No. E9765. Retail

Value, \$103.50.

YOUR PRICE

\$47⁸⁰

\$39⁸⁵

WITH ALL ACCESSORIES

Includes tubes, 4-45 v. "B" and 1-2 v. Storage "A" batteries.

No. E9767. Retail

Value, \$119.50.

YOUR PRICE

\$55⁹⁵



The Knight 5 Battery set may be efficiently used with a 32 v. Delco plant by tapping off two volts and employing 3-45 v. "B" batteries.

KNIGHT DELUXE AUTO-RADIO

REMOTE CONTROL

The New Superphonic Tubes

Three of the newly invented triple grid tubes used only in the finest new A.C. sets, are built into the circuit of the Knight DeLuxe Auto Radio. They achieve double the volume formerly possible—a new kind of volume which is absolutely quiet and undistorted—and in addition they give sensitivity and tone an entirely new aspect by spreading out over a much wider range of sound frequencies. These new tubes are built to withstand road shocks, and they assure you the same flawless uninterrupted radio entertainment in your car that you enjoy over your set at home.

S-G Push-Pull Pentode

Two new 41 tubes arranged in a mighty push-pull Pentode combination, form a perfect climax to the DeLuxe Auto Radio circuit which is capable of the finest sensitivity and keenest selectivity yet achieved by engineers in an auto set. Every obstacle formerly in the way of perfect auto radio reception has been eliminated in the DeLuxe 5 by the use of the new tubes, perfected chassis shielding, and an ingeniously powerful circuit. The strong R.F. pick-up makes for uniform volume under varying condition.

Utah Speaker

Flawless tone is reproduced in the Knight Auto Set through a Utah Universal Mounting dynamic speaker which may be installed easily at any position or angle.

Set, Speaker and Remote Control

Here is the Knight DeLuxe Auto Set consisting of remote control, set, and Utah speaker, offered at a new low price.

No. E9776. Retail Value, \$39.50. **YOUR PRICE \$17.45**

17.45

EASY TO MOUNT

The receiver case of the DeLuxe Auto Set measures only 7 1/2 x 5 1/2 x 6 1/2 inches and lends itself readily to mounting even in the smallest cars. The dynamic speaker is only 10 in. in diameter and 4 in. deep. The Remote Control is attached to the steering post, and operates the receiver by means of a perfected universal joint positive mounting which is easily adjustable to any car. Shielded speaker and control cables help make a neat and extremely efficient mounting.

Perfect Control

You will derive endless pleasure on city and country roads, listening to strong clear radio entertainment that is comparable to that of the finest new Console sets. You will enjoy especially the unique new Full Vision Spotlight tuning dial. No back lash. Absolute selectivity at all points of the dial, and good strong sensitivity at all times. The DeLuxe Auto Radio is a perfect auto radio.



With Tubes, Less Batteries

The Knight Auto Set, including control, set, speaker, and 2-58, 1-57, 1-37, and 2-41 Eveready tubes.

No. E9777. Retail Value, \$39.50. **YOUR PRICE \$23.25**

Complete With Tubes, Batteries and Accessories

The Knight Auto Set complete with tubes, 3-45 v. "B" batteries, aerial, suppressors, condenser, and all necessary hardware.

No. E9779. Retail Value, \$62.50. **YOUR PRICE \$28.75**

5 TUBE MODEL

PLENTY OF POWER

The 5 tube Auto Set featured here is the same in appearance and size as the DeLuxe model described above except that it uses one 41 tube in place of two. Its very latest advanced screen grid circuit is ruggedly designed and effectively shielded throughout. Dynamic volume, free from distortion, is constant. The Utah universal mounting type speaker handles the output of the receiver without blast or distortion. Tone quality has been given major consideration and its vitality will be a source of constant radio pleasure.

Enjoy programs even when you are away from home, and experience the same luxurious tone and power which your console radio possesses. Radio as you ride!

Control, Set, and Speaker

The Knight 5 Auto set consisting of receiver, remote control and Utah speaker, offered less accessories.

No. E9770. Retail Value, \$32.50. **YOUR PRICE \$13.85**

With Tubes, Less Batteries

The Knight 5 Auto set, including control, set, speaker and 2-58, 1-57, 1-37 and 1-41 Eveready tubes.

No. E9771. Retail Value, \$42.25. **YOUR PRICE \$18.55**

Complete With Accessories

The Knight 5 Auto set complete with tubes, 3-45 v. "B" batteries, aerial, suppressors, condenser, and all necessary hardware.

No. E9773. Retail Value, \$53.75. **YOUR PRICE \$23.95**

COMPLETELY SHIELDED

SIMPLE OPERATION

The positive volume control and unique Spot-light Full Vision Dial of the Knight 5 Auto set make it easy and enjoyable to operate. The compactness and simplicity of the receiver and remote control construction lend themselves to quick simple installation on any make of auto. At the bargain price quoted, no car owner should be without a Knight 5 Auto Set.

\$13.85



CUNNINGHAM & RCA TUBES

The Standard of Quality

Cunningham and RCA tubes are world famous for their fine standards of quality and dependable performance. The product of tremendous resources, they represent the ultimate in scientific engineering, excellence in materials and precision of manufacture. Of rugged construction, they will stand up splendidly under continued usage. We list the complete line down to the latest developments. Each tube carefully tested before shipment.

FREE NEW TUBE MANUAL

We send free, with each purchase of twenty or more assorted Radiotron or Cunningham tubes, the new Cunningham-Radiotron 83 page manual, prepared especially to supply technical information regarding the characteristics and operation of all vacuum tubes including the very latest superphonics. Over 150 graphs, charts, tables and illustrations of tremendous value to all who have an interest in the technical aspect of radio tubes. A splendid addition to your radio library.

A.C. S.G. R.F. AMPLIFIER
224A E185. R.C.A.
E135. Cunn.

List, \$1.65. NET

MULTI-MU S.G. 5 PRONG
235 E180. R.C.A.
E130. Cunn.

List, \$1.65. NET

DET.-AMP. A.C. TUBE
227 E163. R.C.A.
E113. Cunn.

List, \$1.05. NET

POWER TUBE
245 E165. R.C.A.
E115. Cunn.

List, \$1.15. NET

PENTODE POWER AMPLIFIER
247 E184. R.C.A.
E134. Cunn.

List, \$1.60. NET

FULL WAVE RECTIFIER
280 E167. R.C.A.
E117. Cunn.

List, \$1.05. NET

A.C. OR D.C. AMPLIFIER
226 E162. R.C.A.
E112. Cunn.

List, 85c. NET

DET.-AMP. 2 V. TUBE
230 E175. R.C.A.
E125. Cunn.

List, \$1.65. NET

2 VOLT LAST AUDIO TUBE
231 E176. R.C.A.
E126. Cunn.

List, \$1.65. NET

S.G. AMP. AND DET. D.C.
232 E177. R.C.A.
E127. Cunn.

List, \$2.35. NET

D.C. 2 V. POWER PENTODE
233 E179. R.C.A.
E129. Cunn.

List, \$2.80. NET

S.G. AMP. FOR AUTO SETS
236 E181. R.C.A.
E131. Cunn.

List, \$2.80. NET

D.C. AUTO POWER PENTODE
238 E183. R.C.A.
E133. Cunn.

List, \$2.80. NET

D.C. AUTO DET.-AMP.
237 E182. R.C.A.
E132. Cunn.

List, \$1.80. NET

THE NEW SUPER- PHONIC TUBES

These tubes reproduce complete musical range, including 256 heretofore "silent tones" missing on ordinary set. Enjoy superior, rich, full-bodied tone with the new Super-Phonic tubes. Not interchangeable with any previous types.

CLASS "B" AMPLIFIER

46 E190. R.C.A.

E140. Cunn.

List, \$1.85. NET

POWER AMPLIFIER TETRODE

48 E150. R.C.A.

E100. Cunn.

List, \$3.75. NET

DEPLEX-DIODE TRIODE

55 E187. R.C.A.

E137. Cunn.

List, \$1.60. NET

GENERAL PURPOSE TRIODE

56 E192. R.C.A.

E142. Cunn.

List, \$1.30. NET

TRIPLE-GRID AMP. DET.

57 E193. R.C.A.

E143. Cunn.

List, \$1.65. NET

3-GRID SUPER CONTROL

58 E194. R.C.A.

E144. Cunn.

List, \$1.65. NET

FULL WAVE MERCURY VAPOR RECTIFIER

82 E191. R.C.A.

E141. Cunn.

List, \$1.30. NET

F-W. M-V RECTIFIER. 5 V.

83 E196. R.C.A.

E146. Cunn.

List, \$1.55. NET

DEPLEX-DIODE TRIODE FOR 6 VOLT AUTO SETS

85 E197. R.C.A.

E147. Cunn.

List, \$1.60. NET

CLASS "A" AND "B" PENTODE FOR AUTO SETS

89 E198. R.C.A.

E148. Cunn.

List, \$1.80. NET

VOLTAGE AMPLIFIER

841 E188. R.C.A.

E138. Cunn.

List, \$10.40. NET

A.F. Amplifier-Modulator. Same as 210 but has low amplification factor.
842 E161. R.C.A.

List, \$10.40. NET

SUPER CONTROL R.F. AMP. PEN- TODE FOR AIR CELL SETS

234 E186. R.C.A.

E136. Cunn.

List, \$3.80. NET

PENTODE AMP. FOR AUTO SETS

239 E189. R.C.A.

E139. Cunn.

List, \$2.80. NET

PHOTOTUBE

868 E199. R.C.A.

E149. Cunn.

List, \$7.50. NET

D.C. AMPLIFIER DETECTOR

864 E195. R.C.A.

E145. Cunn.

List, \$2.10. NET

100 WATT. S.W. TRANS. TUBE

852 E169. R.C.A.

E119. Cunn.

List, \$28.00. NET

7.5 WATT SCREEN GRID R.F. AMP. OSC.

865 E170. R.C.A.

E120. Cunn.

List, \$15.00. NET

CURRENT BALLAST. MOGUL SCREW BASE

866 E171. R.C.A.

E121. Cunn.

List, \$6.75. NET

VOLTAGE REGULATOR

874 E172. R.C.A.

E122. Cunn.

List, \$4.90. NET

CURRENT REGULATOR (BALLAST TUBE)

876 E173. R.C.A.

E123. Cunn.

List, \$6.70. NET

CURRENT REGULATOR (BALLAST TUBE)

886 E174. R.C.A.

E124. Cunn.

List, \$6.75. NET

SCREEN GRID R.F. AMPLIFIER

222 E160. R.C.A.

Type	Cunn. No.	RCA No.	List	NET	Type	Cunn. No.	RCA No.	List	NET	Type	Cunn. No.	RCA No.	List	NET
201A	E108	E158	\$0.80	\$0.47	X199	E106	E156	\$2.55	\$1.50	280	E116	E166	\$6.20	\$3.65
112A	E103	E153	1.55	.91	V199	E105	E155	2.75	1.82	281	E118	E168	5.20	3.06
171A	E104	E154	.95	.56	WX12	E102	E152	3.00	1.76	210	E109	E159	7.25	4.26
200A	E107	E157	4.00	2.35	WD11	E101	E151	3.00	1.76	120	E128	E178	3.00	1.76

KNIGHT QUALITY TUBES



BIGGER VALUES

No higher quality tubes could be offered at such low prices. The ability to stand up under the severest usage reflects the care and precise methods used in their construction. Each tube is put through a rigid test before being released, assuring the ultimate in performance. Popular types at popular prices.

A.C. TYPES

Screen Grid Amp.		224A	
No. E335.	List. \$1.65.	NET	\$0.65
A.C. Amplifier		226	
No. E312.	List. \$0.85.	NET	.33
Detector Amplifier		227	
No. E313.	List. \$1.05.	NET	.41
Variable Mu.		235	
No. E330.	List. \$1.65.	NET	.65
Variable Mu.		551	
No. E337.	List. \$1.65.	NET	.65
Dual Grid Amp.		46	
No. E340.	List. \$1.55.	NET	.61
Super-Triode Amp.		No. E342.	
List. \$1.30.	NET		.51
Triple-Grid Amp.		57	
No. E343.	List. \$1.65.	NET	.65
Triple Grid Super Amp.		58	
No. E344.	List. \$1.65.	NET	.65

D.C. TYPES

Detector Amplifier		201A	
No. E308.	List. \$0.80.	NET	\$0.31
Power Amplifier		112A	
No. E303.	List. \$1.55.	NET	.61
Power Amplifier		171A	
No. E304.	List. \$0.95.	NET	.37
D.C. Shield Grid		222	
No. E310.	List. \$3.15.	NET	1.23
2 Volt Det. Amp.		230	
No. E325.	List. \$1.65.	NET	.65
2 Volt Power Amp.		No. E326.	
List. \$1.65.	NET		.65
2 Volt S.G. Amp.		232	
No. E327.	List. \$2.35.	NET	.92
2 Volt Pentode Amp.		233	
No. E329.	List. \$2.80.	NET	1.10
Detector Amplifier		V 199	
No. E328.	List. \$2.75.	NET	1.08

D.C. TYPES

X 199			
Dry Cell Det. Amp.		No. E306.	
List. \$2.25.	NET		\$1.00
Dry Cell Amp.		120	
No. E328.	List. \$3.00.	NET	1.18
Super R.F. Pentode		234	
No. E336.	List. \$2.80.	NET	1.10
S.G.R.F. Amp.		236	
No. E331.	List. \$2.80.	NET	1.10
Detector Amplifier		237	
No. E332.	List. \$1.80.	NET	.71
Power Amp. Pentode		238	
No. E333.	List. \$2.80.	NET	1.10
Super R.F. Amp. Pentode		239	
No. E339.	List. \$2.80.	NET	1.10

AMPLIFIERS RECTIFIERS

No.	Type	List	NET
E315	245	\$1.16	\$0.45
E334	247	1.60	.63
E309	210	7.25	2.84
E316	250	6.20	2.43
E317	280	1.05	.41
E318	281	5.20	2.04
E341	82	1.30	.51
E321	866	7.50	2.94

RADIO TRIAD TUBES

The Profitable Long Life Tube

We are giving FREE, a choice of 227 or 280 Triad tubes, in the following quantities.
3 tubes free with each purchase of 25 Triad Tubes
7 tubes free with each purchase of 50 Triad Tubes
Take advantage of this attractive offer. Many leading receiver manufacturers use Triad tubes as standard equipment. That proves their excellence.

No.	TYPE	DESCRIPTION	LIST	NET
E435.	T 24 AC	Screen Grid R.F. Amp.	\$1.85	\$0.73
E412.	T 26	Amplifier	.85	.37
E413.	T 27	Detector Amp.	1.05	.46
E430.	T 35	Super Control R.F. Amp.	1.65	.73
E437.	T 31	Screen Grid Variable Mu.	1.65	.73
E440.	T 46	Dual Grid Power Amp.	1.55	.68
E442.	T 56	Super Triode Amp.	1.30	.57
E443.	T 57	Triple Grid Amp.	1.65	.73
E444.	T 58	Triple Grid Super Control	1.65	.73
E408.	T 01A	Detector Amplifier	.80	.36
E403.	T 12A	Amplifier Detector	1.55	.68
E404.	T 11A	Power Amplifier	.95	.42
E410.	T 22 DC	Screen Grid R.F. Amp.	3.15	1.39
E425.	T 30	Detector Amplifier	1.65	.73
E426.	T 31	Power Amplifier	1.65	.73
E427.	T 32	Screen Grid R.F. Amp.	2.35	1.03
E429.	T 33	Power Amplifier Pentode.	2.30	1.23
E436.	T 34	Super Control R.F. Amp.	2.80	1.23
E431.	T 36	Screen Grid R.F. Amp.	2.80	1.23
E432.	T 37	Detector Amplifier	1.80	.79
E433.	T 38	Power Amp. Pentode.	2.80	1.23
E439.	T 39	Super Control R.F. Amp.	2.80	1.23
E417.	T 80	Full Wave Rectifier.	1.05	.46
E418.	T 81	Half Wave Rectifier.	5.20	2.29
E441.	T 862	Full Wave Mercury rect.	1.30	.57
E421.	T 866	Half Wave Mercury rect.	7.50	3.30
E415.	T 45	Power Amplifier	1.15	.51
E434.	T 47	Power Amp. Pentode.	1.60	.70
E409.	T 10	Special R.F. Oscillator.	7.25	3.19
E423.	T 108	Power Amp. Power Amp.	8.00	3.52

TELEVISION—Sound Movie—Photo Cells

E449.	CNA	Crater Neon	\$	8.82
E445.	T-Tel.	Television Tube 1 1/2" Plate	8.51	
E440.	T-305-D	Sound Movie Power Amp.	4.45	
E420.	T-45	Amp. Detector and Osc.	1.74	
E448.	T-PEC-2	Photo Cell 3 1/2"	13.28	
E447.	T-PEC-3	Photo Cell 4 3/4"	17.64	
E448.	T-PEC-7	Photo Cell 3 1/2"	13.28	
E422.	T-868	Photo Electric Cell.	6.61	

EVEREADY RAYTHEON

4 PILLAR TUBES

EVEREADY RAYTHEON TUBES have four pillars embedded in solid glass base and braced at top with a mica plate, thus providing 8 points of support for the elements instead of two as in ordinary tubes. This feature enables EVEREADY RAYTHEON TUBES to withstand greater shocks and jars in shipment and to offer lasting service.

No.	TYPE	DESCRIPTION	LIST	NET
E689	ER 46	Dual Power Amp.	\$1.65	\$0.82
E670	ER 49	Dual Power Air Cell		
		Amp.	2.80	1.48
E671	ER 52	Dual Power Auto Amp.	2.80	1.48
E672	ER 55	A. V. C. Det.	1.60	.84
E673	ER 56	Triode Detector	1.30	.69
E693	ER 57	Pentode Det. or Amp.	1.65	.87
E694	ER 58	Variable Mu Pentode.	1.65	.87
E695	ER 58	Full Wave Mer. Rect.	1.30	.69
E696	ER 83	Full Wave Mer. Rect.	1.55	.82
E697	ER 85	V. C. Auto Det.	1.60	.84
E698	ER 89	Universal Power Auto		
		Amp.	1.80	.95
E689	RA	Full Wave Rect.	7.50	3.97
E688	BR	Full Wave Rect. for B	4.65	2.46
E690	BR	Half Wave Gas. Rect. for Auto. Elim.		
			2.75	1.46
E699	LA	Pentode Auto Amp.	2.80	1.48
E653	ER 112A	Triode Det. or Amp.	1.55	.82
E678	ER 120	Amp. for Dry Battery	3.00	1.59
E674	ER 11A	Power Amp. for A.C. Sets	.95	.55
E655	ER V199	Det. or Amp. for Dry Bat.	3.75	1.66
E658	ER 201A	Det. or Amp. for Storage		
		Battery Sets	.80	.42
E659	ER 210	Triode Power Amp.	7.25	3.84
E685	ER 224A	S. G. Det. or Amp.	1.65	.87
E682	ER 226	Triode Amplifier	1.80	.95
E683	ER 227	Triode Det. or Amp.	1.05	.56
E675	ER 230	Air Cell Det. or Amp.	1.65	.87
E676	ER 231	Power Amp. for Air Cell	1.65	.87
E677	ER 232	S. G. Det. or Amp.	2.35	1.24
E679	ER 233	Pentode Power Amp.	2.80	1.48
E686	ER 234	Vari. Mu Pentode Amp.	2.80	1.48
E680	ER 235	Vari. Mu S. G. Amp.	1.65	.87
E681	ER 236	Screen Grid Det. or Amp.	2.80	1.48
E682	ER 237	Triode Det. or Amp.	1.90	.95
E683	ER 238	Pentode Power Amp.	2.80	1.48
E674	ER 239	Variable Mu Pentode.	2.80	1.48
E665	ER 245	Triode Power Amplifier.	1.15	.61
E684	ER 247	Pentode Power Amplifier	1.60	.84
E685	ER 250	Triode Power Amplifier.	6.20	3.28
E667	ER 280	Full Wave Rectifier.	1.05	.66
E668	ER 281	Half Wave Rectifier.	5.20	2.75
E667	ER 551	Vari. Mu S. G. Amp.	1.65	.87

Y-224A
SCREEN GRID
AMPLIFIER
No. E235.
List. \$1.65.
YOUR
PRICE **49c**

Y-227
DET. AMP.
No. E213.
List. \$1.06.
YOUR
PRICE **31c**

X-226
AMPLIFIER
No. E212.
List. \$0.85.
YOUR
PRICE **25c**

X-280
FULL WAVE
RECTIFIER
No. E217.
List. \$1.08.
YOUR
PRICE **31c**

X-201A
DET.-AMP.
No. E208.
List. \$0.80.
YOUR
PRICE **24c**

X-200A
DETECTOR
No. E207.
List. \$1.00.
YOUR
PRICE **\$1.18**

X-112A
POWER AMP.
No. E203.
List. \$1.55.
YOUR
PRICE **46c**

V-199
Detector Amplifier
for dry cell.
No. E205.
List. \$2.75.
YOUR
PRICE **81c**

X-120
DRY CELL AMP.
No. E228.
List. \$3.00.
YOUR
PRICE **88c**

X-210
Power Amplifier.
No. E209.
List. \$7.26.
YOUR
PRICE **\$2.14**

X-250
AMPLIFIER
No. E216.
List. \$8.20.
YOUR
PRICE **\$1.82**

X-281
Half-Wave Rect.
No. E218.
List. \$5.20.
YOUR
PRICE **\$1.53**

X-240
Hi-Mu Voltage
Amplifier.
No. E214.
List. \$3.00.
YOUR
PRICE **88c**

X-12
DET.-AMP.
For dry cell.
No. E202.
List. \$1.55.
NET **46c**

SENSATIONAL LOW PRICES

Hylon tubes represent quality at a rare low price. They are built to rigid modern requirements, under the latest methods of economical manufacture. The extremely low price is no measure of the unusually fine service given by these tubes. Will adequately fill the requirements of set owners, dealers, and service men with splendid results in performance and in savings and profits.

TYPE X-245 POWER AMPLIFIER

Power output tube for last audio stage. 1.6 watts output at plate voltage of 250.

No. E215.
List. \$1.15.
YOUR PRICE **34c**



**THE
QUALITY
TUBE**



ARCTURUS BLUE TUBES

Famous Quick Heaters

The famous Arcturus tube is noted for its quick action, its noiseless operation, and its ability to withstand current surges. Try the Arcturus in your receiver and enjoy clear, humless tone, increased volume, and exceptionally long life. This super-quality has established the wide reputation of Arcturus A.C. tubes.

No.	Type	Description	List	NET
E508	101A	Detector Amplifier	\$0.80	\$0.42
E509	110	Power Amplifier	7.25	3.84
E503	012A	Detector Amplifier	1.55	.82
E510	122	S.G. Amplifier	3.15	1.67
E535	124A	S.G. Detector Amplifier	1.65	.87
E512	126	Amplifier	.85	.46
E513	127	Detector Amplifier	1.05	.56
E523	130	Detector Amplifier	1.45	.87
E526	131	Power Amplifier	1.65	.87
E527	132	S.G. Detector Amplifier	2.35	1.25
E529	133	Power Pentode	2.80	1.48
E538	134	Var. Mu R.F. Pentode	2.80	1.48
E531	136A	S.G. Detector Amplifier	2.80	1.48
E532	137A	Detector Amplifier	1.80	.98
E533	138A	Power Pentode	2.80	1.48
E534	139A	Var. Mu R.F. Pentode	2.80	1.48
E539	44	Var. Mu R.F. Pentode	2.85	1.51
E515	145	Power Amplifier	1.15	.61
E519	46	Class "B" Amplifier	1.55	.82
E516	150	Power Amplifier	6.20	3.29
E537	551	Var. Mu R.F. Amplifier	1.65	.87
E522	55	Duplex-Diode Triode	1.60	.85
E523	56	Det. Amp. Oscil.	1.30	.69
E543	57	S.G. Detector Amplifier	1.45	.87
E544	58	Var. Mu R.F. Pentode	1.65	.87
E520	59	Gen. Pur. Power Amp.	2.20	1.17
E504	071A	Power Amplifier	.95	.50
E517	180	Full-Wave Rectifier	1.05	.56
E518	181	Half-Wave Rectifier	5.20	2.76
E546	82	F-W Mer. Vapor Rec.	1.30	.69
E548	83	F-W Mer. Vapor Rec.	1.35	.82
E547	85	Duplex-Diode Triode	1.60	.85
E548	89	Gen. Pur. Power Amp.	1.80	.95
E505	090UV	Detector Amplifier	2.80	1.48
E506	090UX	Detector Amplifier	2.55	1.35
E540	G.A.	Power Pentode	2.75	1.46
E534	P.Z.	Power Pentode	1.60	.85
E541	Wunderlich A	Detector	3.00	1.76
E542	Wunder. A	Automotive Detector	3.00	1.76

THE LATEST DEVELOPMENTS TELEVISION—SOUND MOVIE TUBES AND PHOTO-ELECTRIC CELLS

The latest scientific developments in tube manufacture in the famous Triad products. Triad tubes have established a world-wide reputation for excellence in performance and durability. Here are newly-designed tubes for the latest needs. Highest quality equipment for the experimenter and amateur broadcaster, for sound film work, public address systems, and television.

All tubes listed below are subjected to rigid tests before release and are in perfect condition when shipped. They are offered on a final sales basis, not subject to return.

CRATER NEON TYPE

New Triad product used in reproduction of television pictures, in conjunction with lens type Scanning Discs. Produces intense light source and can be applied for any type of optical system. Approx. striking voltage 180.0. Max. Current 40 M.A. Approx. Crater light source .030 in.

No. E449. YOUR PRICE **\$8.82**



T-TEL.

Triad television tube designed for use with usual scanner. Maximum brilliancy with low current consumption. 1 1/2 in. plate; approx. striking voltage 190.0. Max. current 25 M.A.

No. E445. YOUR PRICE **\$5.51**

Photo-Electric Cells

No. E446	Type PEC-2	NET	\$13.28
No. E447	Type PEC-3	NET	17.64
No. E448	Type PEC-7	NET	13.28
No. E422	Type 888	NET	6.61

Sound-Movie Types

No. E400	Type 211	NET	\$15.76
No. E401	Type 845	NET	15.76
No. E450	Type 205D	NET	4.41

ARCTURUS PHOTOLYTIC CELL

Type P4A, Photolytic Cell for improved operation of every photo-electric device.

No. E536. List. \$31.50.

YOUR PRICE **\$15.75**

VOLTAGE REGULATORS - INTERFERENCE DEVICES



AMPERITE SELF ADJUSTING LINE VOLTAGE CONTROLS

The Voltage "Watchman" in your radio. Keep voltage constant with AMPERITE for best and uniform radio reception. Eliminates all noises caused by overloaded resistances and condensers; avoid tube and power pack burnouts, maintain even volume. Perfect tone—install AMPERITE. Service men: Increase your profits, stock AMPERITES. Everybody wants them. Speedy installation. Shipp. wt. 1 lb.

FOR YOUR CONVENIENCE THIS AMPERITE CHART

Catalog No.	Tubes in A.C. Set	Use Amperite
E1071	4-5	5-A-5
E1072	7	6-A-5
E1073	7	7-A-5
E1074	8	8-A-5
E1075	10	9-A-5
E1076	10	10-A-5
E1077	11-12	11-A-5

SPECIAL AMPERITE CONTROLS

- No. E1063. 13A-3. For 7 to 11 tube sets using 1-50 tube.
 No. E1064. 20A-3. For 7 to 11 tube sets using 2-50 tubes and for 110 Volt D.C. Sets.
 No. E1065. 9-20. For Brunswick 11, 21, and 31.
 No. E1066. 11-20. For His Q-30, Electroton K71 K72, Peerless 21 to 25. Each Amperite List. \$3.00.
 No. E1067. 90. For Majestic 90, 91 and 92.
 No. E1068. 70. For Majestic 70, 71 and 72.
 No. E1069. 18-10. For Star Halder.
 No. E1078. 9-V-10. For Victor B35 and 38.
 No. E1095. 16-A. For 5 to 8 tube auto sets.
 No. E1096. 22-A. For 7 to 8 tube auto sets.
 No. E1092. Adapter Socket. List. 35c. YOUR PRICE... 15c
 No. E1079. Special Mounting Adapter for 5-V-10. List. 35c. YOUR PRICE... 28c

GEM INTERFERENCE FILTER



Install a Gem Line Filter Eliminator to help eliminate any A.C. or D.C. line interference from your set. Disturbances caused by generators, vacuum cleaners, elevators, etc., are readily reduced. Can be placed near or inside of radio. Place plug of eliminator in wall socket. Maximum 110 Volts A.C. or D.C. Current. Shipp. wt. 1/2 lb.

No. E3223. List. \$2.50. YOUR PRICE **\$1.35**

ESSENSEE CLARATONE

Combines three functions in one instrument, serving as an interference eliminator, tone clarifier, and volume control. The Claratone enhances tone quality, and permits tuning out of interfering stations. Reduces crackling and popping sounds. Mahogany crystalline finish case. 1 lb.



No. E3215. List. \$3.00. YOUR PRICE **98c**

L.C.A. FILTERVOLT JUNIOR

Banishes interference caused by common household devices. Compact and easy to install. No tools necessary. Trim black enameled case. 1 lb. No. E4213. List. \$3.00. YOUR PRICE **\$1.68**



POPULAR MODEL

This model has more than twice the capacity of the Junior model. Designed for use with motors on refrigerators, washing machines, etc. and can be used either at the radio set or at the apparatus causing the disturbance. Shipp. wt. 4 lbs. No. E4206. List. \$5.00. YOUR PRICE **\$2.76**

SENIOR MODEL

The famous Filter-volt noise eliminator. Quickly subdues those disturbing cracks and hisses caused by washing machines, electric signs, refrigerators and similar apparatus. Compact and may be quickly and easily installed without the use of special tools. Operates on A.C. and D.C. current, 25 to 60 cycle 110, 200 V. and 32 V. farm systems. Shipp. wt. 3 lbs. No. E4211. List. \$15.00. YOUR PRICE **\$8.35**

Universal Resistovolt

An automatic voltage regulator that maintains a constant potential of 110 Volts, and thus prevents A.C. tubes from burning out. Operates automatically and requires no attention. Shipp. wt. 1 lb. each. No. E4215. List. \$15.00. YOUR PRICE **\$8.58c**



CLAROSTAT A.C. LINE VOLTAGE REGULATOR

A perfect line voltage control that automatically adjusts line voltages. It is safe, compact and durable, and is ideal for safe operation on fluctuating voltages. Easy to install. For 110 Volt A.C. sets consuming watts as specified.

No.	Type	Watts
E2241	O.	Up to 60
E2240	B.	100 to 150
E2239	B.	100 to 150

List. \$1.75. YOUR PRICE **89c**

Clarostat Line Replacement Ballasts

Offers compensation for line voltage changes for sets designed for use with ballast. These line ballasts will maintain the normal voltage across the primary of the power transformers within the allowable limits for efficient operation in spite of line fluctuations over a range of from 95 to 135 Volts. We can supply replacement line ballasts for sets not mentioned below. Order with deposit, give name, model and year of set and number of tubes.

Number	Tubes	Set
E2215	2169	Bremner-Dally
E2216	2170	Brunswick Hi-Q-30, Scott, Silver, Sonora
E2217	1516	Majestic 70
E2218	2408	Claraton 20-31
E2219	1508	Majestic 72
E2220	1012	Majestic 70
E2221	1210	Majestic 90
E2222	6310	United Reproducer, Peerless, Grebe
E2223	2518	Stark Piano, Belmont
E2224	2518	Simplex, Baldwin
E2242	5001	Stewart Warner Model 906-1818
E2243	5002	Stewart Warner Model 950-6219
E2244	5003	Stewart Warner Model R100-66756

List. \$2.50. YOUR PRICE **\$1.35**

Protex-Tube Voltage Regulator

An air cooled, dependable voltage regulator. Fits any standard set socket or outlet and will deliver correct voltage to any set. Shipp. wt. 1 lb. No. E2033. Net. Each. 35c. Lots of 10. Each. **29c**



Readrite A.C. Metered Voltage Regulator

An A.C. Voltmeter and power rheostat which gives a working range between 130 and 100 volts. Perfect visual control. Voltmeter has red margin from 110 to full scale, and 110 black line maximum voltage division marked 115. With cord and plug. 1 1/4 lb. No. E6340. List. \$3.68. YOUR PRICE **\$3.68**



Aerovox Interference Eliminator

The Aerovox Interference Eliminator eliminates a noise-free background upon which the tone of your receiver stands forth with greater brilliance. It eliminates power line noises or disturbances from motors and other household devices. No tools needed—just plug in. With cord and plug. Shipp. wt. 3 lbs. No. E850. List. \$5.00. YOUR PRICE **\$2.94**

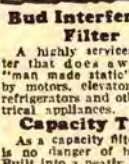
FALCK CLAROCEPTOR

Falck Claroceptor banishes annoying electrical disturbances caused by telephone, motors, street cars, etc. It provides a freedom from extraneous noise that makes reception doubly enjoyable. Sharpener selectivity. Easily installed, 2 lbs. No. E805. List. \$5.00. YOUR PRICE **\$2.94**



Bud Interference Filter

A highly serviceable filter that does a wondrous "man made static" caused by motors, elevators, bells, refrigerators and other electrical appliances. Capacity Type As a capacity filter, there is no danger of burnouts. Built into a neatly finished, all bakelite box. 1 lb. No. E1601. List. \$2.85. YOUR PRICE **\$1.45**



REPLACEMENT CELLS—RECTIFIERS

ELKON REPLACEMENT DRY RECTIFIERS



TYPE XP-12 FOR PHILCO

The Elkon all-dry metallic rectifier replacing Philcocon A and AA wet jars used in Philco trickle chargers. A power, and A and B combinations. Easily

attached, only two wires to connect. No liquids—no attention. Shipping weight 1 lb.
No. E3180.
List Price, \$4.00.
YOUR PRICE \$2.35

TYPE X-B-16

The Elkon rectifier for the following "A" units: Majestic, Elkon, Knapp, Green, Brown, Fada, Tobé, Branch, Webster, Bernard, Mayolan, Metro, Sentinel, Philco, and General Instrument. Shipping weight 2 lbs.



No. E3182.
List Price, \$7.00.
YOUR PRICE \$4.12

TYPE BJ and BNK for BALKITE and PHILCO CHARGERS



Solid, dry, noiseless rectifiers for replacing wet acid jars. Simply installed. Increase charging rate of Balkite N charger

to 1 amp., model K to 8 amp., and on model J 30% higher on all charging rates.
No. E3184. Type BJ for Balkite J chargers.

No. E3181. Type BNK for Balkite N & K chargers.
List Each, \$5.00.
NET EACH \$2.94

TYPE XB-4

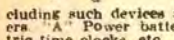
Elkon dry rectifiers for trickle and tapering chargers. Rectifiers should be replaced on these chargers every 5,000 hours. Type XB-4 (3 units to a set) should be used in the following: Elkon, Acme, Bernard, Cleveland, National and Precision. Shpg. wt. 1 lb.



No. E3187. List, \$4.00.
YOUR PRICE \$2.35

BL DRY-DISC RECTIFIERS

BL rectifiers are absolutely dry, compact, noiseless, of long life, and insure steady current delivery. The type "B" rectifier elements are adaptable to a variety of uses, including such devices as dynamic speakers, "A" Power battery chargers, electric time clocks, etc.



TYPE B-16

For use on Valley A Power—Type DMA, Webster A Power, Green Brown A Power, Tobé, etc. Shpg. wt., 2 lbs.
No. E1404.
List Price, \$5.00.
YOUR PRICE \$2.73

TYPE B-12

For use on following "A" units and chargers: Sterling R-108 M. Trans. Corp. of Am. No. 648, Valley MB, Galvin, Acme, Arco, Braun, Consolidated, D. C. Battery, France, Gen. Inst., Triple Specialty, Universal, Green-Brown, Stewart Duo-rate, Sterling R-92, Valley Automatic, Knight 2-Rate, and King. Shpg. wt., 2 lbs.
No. E1405.
List Price, \$4.50.
YOUR PRICE \$2.45

HANDY METALLIC REPLACEMENT RECTIFIER



Replaces the old type fragile glass bulb. For all 2 amp. or trickle chargers. Sturdily constructed, assuring quiet rectification. Delivers 2 1/2 amps. or trickle charge.

No. E4260.
List Price, \$4.00.
YOUR PRICE \$2.16

Replacement Fluid for

WILLARD B EXIDE B ABOX A **PHILCO B BALKITE A BALKITE B**

Replacement fluids with chemically correct formulas for the purpose intended. Directions printed on each container. Shpg. wt., 5 lbs.

No. E7500. WILLARD B.
No. E7502. EXIDE B.
No. E7503. ABOX A & BALKITE A.
No. E7501. PHILCO B AND TRICKLE CHARGERS K & N.
List Each, \$1.00.
Ast. Per doz, \$7.50.
NET EACH 68c



NOTICE—NOT AVAILABLE

Eveready Raytheon Rectifiers



TYPE BR
A full wave rectifier, standard for most "B" eliminators. 350 V. R.M.S. per anode. 125 M.A. maximum. Shpg. wt., 1 lb.

No. E688.
List, \$1.65.
YOUR PRICE \$2.46

TYPE BA

A high current rectifier used in power supply units for sets having 201 A tubes wired in series. 350 M.A. Maximum. Shpg. wt., 1 lb.
No. E690. List, \$7.50.
NET EACH \$3.97

TYPE BR for Auto Eliminators
A half wave Aauxous type rectifier for automobile set "B" eliminators. A new purpose tube with Eveready Raytheon customary high quality. Shpg. wt., 1 lb.
No. E691. List, \$2.75.
YOUR PRICE \$1.45

Dumont High Capacity Replacement Condensers



Accurately constructed of high grade materials, these Dumont replacement condensers are exact reproductions of the originals employed in the popular makes of "A" eliminators.

FOR STANDARD "A" ELIMINATORS

Exact replicas both physically and in capacity of the original condensers employed in such standard "A" units as Knapp, Elkon, etc.

No. E2740. Elkon Replacement Condenser.
No. E2741. Kuppox A.
No. E2742. 2,000 Mfd.

List Each, \$4.50.
YOUR PRICE \$1.38

REPLACEMENT CELLS FOR WET "A" AND "B" ELIMINATORS



Standard replacement cells for wet eliminators. Provide trouble free service. No attention necessary other than to add distilled water occasionally. The large electrodes permit high power output without overheat of the solution. Not malleable.

TYPE (AA)
This is a flat rectifier jar for replacement in 6 Volt "A" power units which make use of electrolytic rectifiers. Careful construction assures full charging rates in units properly designed for their use. Shpg. wt. 7 lbs.
No. E4412. List, \$4.00.
YOUR PRICE \$1.95

TYPE (A)
A round rectifier jar designed for replacement in 4 volt "A" power units making use of electrolytic rectifiers. Gives excellent results. Shpg. wt. 4 lbs.
No. E4411. List, \$3.00.
YOUR PRICE \$1.47

TYPE (B)
Round replacement cell to supply the demand for a long life rectifier for electrolytic "B" eliminators. Suitable for "B" eliminators, such as Philco, Willard, Exide, Vesta, Balkite and Ferberd. Cover can be unscrewed to permit change of solutions. Only chemically pure aluminum is used for the positive electrode, while a chromium alloy serves as negative post. Very economical. Shpg. wt., 1 lb.

No. E4410. List, \$1.00.
YOUR PRICE EACH 47c

GENUINE G. E. TUNGAR BULBS

The well known, highly efficient G. E. Tungar Bulbs. Used in all standard chargers. Made by General Electric Co. Shpg. wt., 2 lbs.

No. E3761. 3 amp. List, \$8.00.
YOUR PRICE \$5.49

No. E3763. 6 amp. No. E3762. 2 amp. No. E3764. 2 amp. with tip.
List, Each, \$4.00.
NET EACH \$2.74

LONG LIFE FULL WAVE RECTIFIER TUBE

For "B" Power Units
A popular priced long service rectifying tube for all "B" power units requiring the easiest type of tube rated at 125 mill. 300 volts. Offered at a new low price. Shpg. wt., 1 lb.
No. E490.
List, \$4.50.
YOUR PRICE \$1.28

GENUINE KELLOGG A.C. TUBES

The high quality, popular Kellogg A.C. tubes, released only after rigid laboratory tests. Shpg. wt., 1 lb. each.

No. E891. Type 301 Detector Amplifier. List, \$4.00.
YOUR PRICE \$2.35

No. E892. Type 103. List, \$5.00.
YOUR PRICE \$2.94

NEW READRITE TUBE TESTERS

Watch Readrite Developments. The brilliant engineering which has characterized the present Readrite line is now perfecting startling new developments that promise to astound the radio industry. Allied is proud to be a direct Readrite factory distributor. We carry every instrument

that Readrite produces. We list or can promptly furnish any Readrite product. Write us for Readrite information and literature. Any Readrite tester, meter or adapter can be supplied promptly. More complete information on anything in the Readrite line is yours for the asking.

New Readrite Model 406

A new and complete counter tube tester that can also be used as a portable type for the service man or for testing tubes at home. An instruction chart is fastened to the tester panel and even the most inexperienced can test tubes without difficulty. A push button provides two plate current readings for determining the conductance and worth of a tube. The simplified single scale meter is made possible by the wide change in readings. The meter is placed on pin jacks and is easily removable. A fuse is connected with the meter insuring against burning out at any time because of a shorted tube.

New Type Illuminated Dial

When the tester is in operation a pilot bulb, directly underneath the meter, illuminates the dial, making it very easy to read. Both the lamp and the fuse are easily renewed by detaching the meter. This compact unit is mounted in a very strongly built case with reinforced corners. The case is covered with neat, strong leatherette. Rubber feet insure against scratching. The cover is detachable and a leather handle is provided for portable use.

Tests All Tubes Without Adapters

It plugs into the A.C. line and gives a very complete test on all old and new type tubes, including tubes having 4, 5, 6 and 7 prongs, without the use of adapters. The type 80 tubes are tested in the same manner as the other types, which is a new feature.

No. E6415.
List. \$25.00.
YOUR PRICE

\$1470

New 407 Tube and Short Checker

The 407 Tube Tester has all the characteristics of the 406, described on the left, but in addition

provides a complete short test of the tube. All shorts, gas and leakage tests are made with the tube heated under operating conditions. The tube is tested for its worth in the same socket used for short testing. The pilot light for illuminating the dial is also used to indicate the shorts, gas and leakage condition.

No. E6419.
List. \$30.00.
YOUR PRICE

\$1764

No. 450 Tube Short Tester

A real trouble saver. Three lights instantly show shorts. Position of lever switch indicates parts shorted. Requires 4 1/2 volt C battery and comes complete with lamp and plug.

No. E6343.
List. \$3.50.
YOUR PRICE

\$206

Customer Tube Tester Display Case No. 430

The 430 Tube Tester Display is a valuable addition to any store that values customer appreciation. With this tester, which is to be used in connection with the 406 or 407 Counter Tube Tester, as illustrated above, you can instantly test tubes and show your customer their condition without reference to charts or diagrams. The metal display case contains a color chart precision meter in three colors, red for poor, yellow for doubtful, and blue for good tubes. Another A.C. voltmeter with rheostat controls the line voltage. It is beautifully finished in baked enamel and is 10" high and the base is 15"x11". Price does not include 406 or 407 testers.

No. E6416.
List. \$40.00.
YOUR PRICE **\$2352**

Readrite 444 Tube Tester Carrying Case

The 444 is a complete portable type tube tester in carrying case using a direct reading 1/4" precision type meter with color chart, enabling the customer to directly read the value of tubes. It is equipped with a gas leakage and short tester. Tests are made with the tube lighted and under operating condition. Equipped to test all types of tubes, including 4, 5, 6, and 7 prong types. 407 Tester having special "short meter" is included.

No. E6417.
List. \$70.00.
YOUR PRICE

\$4116

No. 900 Utility Appliance Tester

For servicing electrically operated refrigerators, ironing machines, water pumps, oil burners, stokers, ventilating systems, ranges and general household appliances. Contains input and output outlets for measuring volts and amperes. A.C. ammeter reading up to 20 amp. A.C. voltmeter reading up to 300 volts and complete direct reading ohmmeter 0-40, 0-10,000 ohms for continuity testing. Complete in leatherette case measuring 10 1/2" x 5 1/2" x 3 1/2".

No. E6418. **\$1323**
YOUR PRICE

READRITE TEST ADAPTERS



The adapters listed below are for use in testing the many new tubes which have recently appeared on the market. For testing with wet testers and tube testers. The same adapter may be used with similar testers of other manufacture. Other special adapters may be had, furnished to order. When ordering specify model of tester or manner in which it will be used.

E6310. 45-R for 3 volt tubes.

E6355. P.T. for 48 and 47 tubes.

E6311. 36 for 36, 38, 29, and 44 tubes.

E6312. 61 for Wunderlich and Majestic GS 2 tubes.

E6313. 62 for 65, 85, 69, and 29 tubes.

E6314. 92 for 292 tubes.

E6315. 37 for 37 tubes.

E6352. 34 for 3 to 5 adapter.

E6316. 57 for 57, 58, 89, 41 and 42 tubes.

E6317. 174 for 59 tubes.

E6318. 64 for 4 to 6 adapter.

E6319. 83 for 5 to 6 adapter.

List. 75c
YOUR PRICE **44c**

E6326. 66 2 1/4" handle handle plug. For use with Readrite testers. 5 prong.

E6327. 6 prong plug.
List. 75c complete.
NET EACH **44c**

E6320. 82 for testing 82 and 83 tubes.

List. \$1.25.
YOUR PRICE **73c**

E6321. 58 Double Adapter to test 6 prong tubes.

E6322. 176 Double Adapter to test 7 prong tubes.

List. \$1.50.
YOUR PRICE **88c**

E6323. 175 Double Adapter to test type 59 tube, 7 prong.

List. \$2.00.
YOUR PRICE **\$1.18**

E6324. 167 6-110c Socket with one center prong on 7 prong plug.

E6325. 4 for adding speaker or headphone to radio set. Use 2 1/2 push pill.

E6353. 45 4-Prong Socket on 5 prong plug.

List. 75c.
YOUR PRICE **44c**

Readrite Direct Reading Ohmmeters



These ohmmeters are complete with small 3 cell flashlite battery. Model 500 tests resistance by direct reading up to 10,000 ohms. Model 502 tests low resistance up to 400 ohms in addition to the higher resistance of 10,000 ohms.

No. E6367. Type 500. List. \$6.00.
YOUR PRICE **\$3.53**

No. E6358. Type 502. List. \$7.00.
YOUR PRICE **\$4.12**

No. E6397. Type 503 Resistor to increase reading of type 500 to 100,000 ohms. List. \$1.50. YOUR PRICE **88c**

No. E6359. Type 504 Resistor to increase reading of 500 and 502 to 100,000 ohms. List. \$2.00. YOUR PRICE **\$1.18**

READRITE NEW TEST EQUIPMENT

Readrite is first with the latest, showing the Newest, Up To The Minute test equipment at prices that are low for quality instruments. These New Meters and set analyzers are complete in every detail, testing all New Circuits as well as old.

Readrite Meters are so constructed that they can be safely used by any one. Detailed, simple instructions accompany each instrument. The long experience and careful engineering for which Readrite has long been famous, have served to make these instruments among the most popular in the radio field. Readrite is a pioneer in the radio field and is known by service men all over the country for quality and price.



NO. 710 ANALYZER & TUBE TESTER

The Readrite 710 is universal in its application. Provision is made to check all types of tubes. The new type 46-55-56-57-58 and 82 are accurately and rapidly tested. All of the older tubes can be checked just as efficiently.

For the serviceman who wants to handle his calls properly and rapidly the Readrite 710 is a wonderful help.

TESTS 4-5-6 AND 7 PRONG SOCKET SETS

Very easy to operate, equipped with a practical selector switch for checking all parts of tube circuit by connecting to set socket. Selection for testing voltages of plate, grid, cathode, suppressor grid and screen grid is done quickly and accurately. Plate current, filament volts, also line and power supply volts are measured. The battery is used for the continuity testing of transformers, chokes, etc. Capacity and resistance charts are furnished showing use of instruments for testing condenser, also measuring resistances up to 1,000,000 ohms.

TESTS ALL TYPES OF TUBES

The Nine Scale readings of the Meters may be used separately with the Jack terminals provided. The scale readings are 0-20-60-300-600 D.C. Volts, 0-10-140-700 A.C. Volt, and 0-15-150 M.A. Both A.C. and D.C. filament voltages are accurately measured on one Meter. Contains new wiring with added 7 hole socket. Housed in a strong, attractive leatherette covered case. Very compact size 10 1/2 x 3 1/2 x 8, with detachable cover. A utility tester that every well equipped service man should have. Will pay for itself in rapid testing and customer satisfaction. Operation so simple that anyone can use it efficiently.

No. E6410.
List, \$25.00.
YOUR NET PRICE

\$14.70

READRITE COMBINATION TEST SETS SET TESTER—TUBE TESTER—OSCILLATOR

NEW ADD-A-UNIT PLAN

Buy what you need or can afford now. Get the balance later. And when you have the complete assembly, it is mounted in one convenient case. The entire assembly provides you with a tester that will serve every need, either in the shop or on your calls. The complete unit contains the No. 710 Analyzer, No. 407 Tube Tester and No. 550 Oscillator. Each unit is built on a panel which is easily slipped into place as it is purchased.



The 710 Analyzer—407 Tube Tester and the 550 Oscillator in one carrying case.

The complete unit of 3 instruments already mounted in the sturdy, leatherette covered case, provides a unique testing laboratory to serve your every need. All units are readily accessible; the meters can be easily read, while the plug in cords and adapters are conveniently placed adjacent to the meters. Every serviceman needs this compact efficient unit. It is complete and serves every radio need.

No. 577 Combination

Combines No. 407 and No. 710 Testers with the No. 550 Oscillator.

Tests tubes, set circuit and aligns tuning condensers. The oscillator and tube tester are on one panel, with the set tester in a drawer underneath. Case size 22 1/2 x 8 1/2 x 7 1/2 in.

No. E6407.
List Price, \$80.00.
YOUR NET PRICE \$52.92

No. 576 Combination

Combines the 406 and 710 testers with the 550 Oscillator. Same as above except that 406 tube tester is used instead of 407.

No. E6409.
List Price, \$85.00.
YOUR NET PRICE \$49.98

No. 710 Analyzer Less Case

This section of the Add-A-Unit plan has same meters and equipment that are listed under the 710 set analyzer. Built on a panel to be slipped into the Add-A-Unit case.

No. E6412.
List Price, \$20.00.
YOUR NET PRICE \$11.76

550 Oscillator Less Case

This section of the Add-A-Unit Tester is the same in performance and construction as the 550 Oscillator described on Page 17 of our catalog. Mounted on a panel for use in any case mounted in the Add-A-Unit case.

No. E6423.
List Price, \$30.00.
YOUR NET PRICE \$17.64

407 Tube Tester Less Case

Another part of the Add-A-Unit Tester that when completed makes up the perfect assembly. The multiple functions of the 407 Tester are described on page 14. Provided with the slide panel.

No. E6413.
List Price, \$25.00.
YOUR NET PRICE \$14.70

406 Tube Tester Less Case

You have the option of using the 406 Tube Tester in the Add-A-Unit Case if you prefer. The complete description is on Page 14. This unit is also mounted on a panel to be easily slipped in the case.

No. E6414.
List Price, \$20.00.
YOUR NET PRICE \$11.76

577 ADD-A-UNIT CASE ONLY

This sturdy case is built to house your selection of the three units listed above. Leatherette covered with a removable top. The sliding drawer locks automatically when the lid is closed.

No. E6421. List Price, \$15.00. **YOUR NET PRICE \$8.82**

Readrite No. 610 Set & Tube Tester



The No. 610 Tester contains same equipment as No. 710 but has added features. Room is provided for carrying tubes, tools, and supplies. The test equipment and panel is in a removable tray in the top of the case.

The tray equipment may be used separately as a complete test panel for shop purposes. Size 14 1/2 x 7 x 7 1/2.

No. E6411.
List, \$30.00.
YOUR PRICE \$17.64

Readrite 406-710 Combination



Has combined features of the 710 Analyzer and the 406 described on page 14. With this combination tubes are tested without necessity of connection to a radio, as the 406 plugs directly into the AC light socket. Tests all the new and old type tubes including the 4, 5, 6 and 7 prong types. A protecting fuse prevents shorts or other difficulties. Dial is illuminated for easy reading in dark places. Leatherette case measures 21 x 14 x 7 1/2.

No. E6408.
List, \$50.00.
YOUR PRICE \$29.40

NEW Readrite No. 1000 Radio Analyzer

A COMPLETE RESISTANCE, CONTINUITY AND CAPACITY TEST INSTRUMENT



A super ultra-modern tester—complete—minutely precise, for testing resistance, continuity and capacity of radio receiving sets, without removing chassis from cabinet. The 3 1/2 in. D.C. precision meter, 0-1 M.A., has the lower scale reading—0-30-300-800 D.C. volts. Upper scale reading is in ohms and megohms. Scale readings available for resistance measurements are 0-300, 1-60, 000 ohms and 0-3 megohms. Can also be equipped to test up to 6 megohms. The A.C. meter is calibrated for reading directly in microfarads, also for testing line voltage. Lower scale readings .008 to .25, upper scale, .1 to 10 mfd. Calibrated for use on 60 cycle at 110 volts A.C. Rheostat regulates the correct voltage to be applied.

Two plug-in cables and two separate cords are provided for testing through the set socket of resistance of voltage dividers, series resistors, transformer primaries and secondaries, filter chokes, speaker fields, capacities of paper and mica type condensers of the different tube circuits. Jacks are provided for individual tests separate from plug connections for the above, and in addition 0-30-300 M.A. A perfect all-around test instrument.

For Set Analyzing—Testing Voltages—
Milliamperes—Resistance and Capacity

No. E6420. List Price, \$55.00.

\$32³⁴

YOUR PRICE

Improved Readrite 245 A Set and Tube Analyzer

An extremely popular set analyzer. Portable and easily handled. Fills every servicing need in the field. Plug into the set socket. A unique feature of this tester is the accessibility to every part of the circuit and simplicity of using. The ideal, compact and complete tester for precise measurement of old and new tubes.

Tests New Circuits with 57 & 58 Tubes, Also Resistance & Capacity

The Improved Readrite Analyzer is supplied with '58 adapter for testing circuits using the new '57 and '58 tubes. Meter may be used separately for continuity and general testing. The three double reading meters are: Filament and line voltage, A.C.-D.C. volt meter 0-10-140, plate and grid volt meter, 0-60-300 (resistance 300 ohms per volt), plate milliammeter 0-20-100. Tests all socket voltages, normal plate current, grid test change, and line voltage. Both plates of full wave rectifier tube tested without use of adapter.

All cables, cords, plugs and adapter are securely held in the seamless metal cover. Comes in handsome enamel finished case with leather handle. Complete illustrated instructions and charts show analysis of receiving set circuits, the measurement of resistances up to 100,000 ohms, and capacity tests.

No. E6342. List Price, \$20.00.

YOUR PRICE

\$11⁷⁶

New 850 Capacity Tester



A new tester to meet a long-felt want. Readrite 850 is a two volt meters for testing electrolytic and paper type condensers.

practical and convenient tester. For shop or portable use. Makes easy to test all types of condensers, which are often the cause of radio faults, under actual load.

.008 to 10 MFD.

The double scale reading is .008 to 10 mfd., for paper type condensers. Tipped leads are provided for connecting to the condenser to be tested. The D.C. Volt-Milliammeter is for testing and forming electrolytic condensers. A rheostat makes possible adjustment to the proper voltage. For A.C. 110-135 volts, 60 cycles. Full instructions for testing from 10 to 400 henries and 40 to 100,000 ohms.

No. E6400. Without Cover. \$8.82

List \$15.00. With Cover. \$10.00

List Price, \$17.00.

YOUR PRICE

No. 800 Capacity Tester



Readrite meter for testing paper condensers only. The A.C. meter reads directly in microfarads. .008 to 10. Contains rheostat, switch, test lead and plug for A.C. 60 cycle. Full instructions and charts for testing from 10 to 400 henries and 40 to 100,000 ohms.

No. E6402. List Price, \$8.00.

YOUR PRICE

\$4⁷⁰

Readrite Portable Meters

Offered in variety of ranges for particular purposes. A.C. meters are precision type, suitable for accurate A.C. or D.C. testing. Precision in construction make these meters extremely accurate and durable. Nickel finished brass cases, 3" diameter. The connecting cords are



30" with cord tips.

PORTABLE D. C. VOLTMETER

300 ohms per volt, A.C.			
No.	Code	Volts	List NET
E6425.	346	0-300	\$4.50 \$2.65
E6394.	347	0-500	5.50 3.23
E6426.	446	0-60-300	4.50 2.65
E6427.	750	0-750	6.00 3.53

PORTABLE A. C. VOLTMETERS

100 ohms per volt.			
No.	Code	Volts	List NET
E6395.	348	0-150	\$3.00 \$2.35
E6428.	349	0-300	5.00 2.94
E6398.	247	0-800	6.00 3.23
E6429.	248	0-150-750	8.00 4.70

PORTABLE MILLIAMMETERS

D.C.		A.C.			
No.	Code M.A.	No.	Code M.A.		
E6430.	225	0-25	E6434.	470	0-25
E6431.	200	0-100	E6435.	471	0-50
E6432.	282	0-200	E6436.	472	0-100
E6433.	294	0-400	E6437.	473	0-260

List, Each, \$3.00.

YOUR PRICE

\$1.76

PORTABLE AMMETERS

D.C.		A.C.			
No.	Code Amps.	No.	Code Amps.		
E6438.	280	0-1	E6442.	460	0-1
E6439.	281	0-5	E6443.	462	0-5
E6440.	238	0-10	E6444.	463	0-10
E6441.	201	0-50			

List, Each, \$3.00.

YOUR PRICE

\$1.76

TUNING METERS



TM-108

TM-108. Light coming from case opening casts a shadow from meter needle on dial.

TM-108		TM-102	
No.	Mills	No.	Mills
E6479.	5	E6475.	5
E6480.	7	E6476.	7
E6481.	10	E6477.	10
E6482.	15	E6478.	15

List, Each, \$1.50.

NET PRICE

88c

TM-102. A popular style suited to special excursions in combination with the regular tuning dial. Furnished for front, rear or side lighting.

No. E6331. Esc. TM 102.	TM-102
No. E6330. Esc. TM 108.	
List, 30c.	
NET EACH	18c

705 Set Test Adapter



For testing tubes where A.C. is not available. Batteries or other current supply connected to adapter to furnish voltage. The selector switch provides for testing all A.C. and D.C. tubes.

No. E6334. List Price, \$3.82

YOUR PRICE

READRITE SELECTOR SWITCHES

Rotating with sliding contact terminals. No moving wires. Knob included in combinations below.

No. E6339. Type 17 bi-polar, 14 terminals. Six double pole positions, two outlet terminals.

No. E6335. Type 27 simple pole switch, 13 single and one common terminal. List, \$1.00.

NET EACH

No. E6336. Type 29. Triple pole, double throw. List, \$1.50.

No. E6337. Type 33. Double pole, triple throw. List, \$1.50.

No. E6338. Type 34. Bi-polar switch with 12 double pole positions. List, \$1.50.

58c

88c

88c

88c

READRITE 550 SERVICE TEST OSCILLATOR

The testing of new circuits which are mostly superheterodyne, make it necessary that an oscillator be used. The new Readrite No. 550 Readrite oscillator, a quality instrument, is priced very low. A completely shielded oscillator, self modulated. Furnished with batteries and one 30 type tube.

DIRECT READING 120-185 K.C.

AND 550-1500 K.C.

The tuning dial is direct reading for intermediates 120-185 K.C. and 350-1500 K.C. broadcast range. Sharp 2nd and 3rd harmonics cover intermediates 260-262 and 475 K.C. Shielded antenna lead wire is furnished.

Used to align R.F. gang condensers, locate defective R.F. transformers, adjust I.F. transformer, check oscillator stage, compare gain in tubes and determine sensitivity of receiver. Test lead wires and break-in adapter are supplied when equipped with output meter. A service man's most important instrument. Indispensable for servicing all superheterodynes.

LICENSED BY A. T. & T. CO.

The heavy metal panel contains the tuning control, direct reading dial which has a large swing, giving widely spaced scale divisions easy to read. Two switches control the circuit. The rotating switch has two positions for Broadcast and Intermediate. The toggle switch connects the batteries and prevents undue drain when not in use. Cover cannot be closed when battery switch is on. The attenuator control, like the tuning and battery compartments, is separately shielded—calibration is controlled by the trimmer condenser, accessible through the panel. Carefully calibrated at the factory. Full operating instructions with the connecting wires are carried in cover. Compact in strong, leatherette covered case with removable cover, leather handle, size 6x12x5 in.



Completely Shielded, Self Modulated

No. E6404, 550 Oscillator complete with output meter in panel.
List Price, \$35.00.
YOUR NET PRICE.....

\$20.58

No. E6405, 551 Oscillator complete but less output meter.
List Price, \$30.00.
YOUR NET PRICE.....

\$17.64

NEW READRITE METERS

The progressive Readrite meter line is now made either flush mounting as in illustration Model 55, or by the use of flange type H, pictured below, it is readily adapted to outside flange mounting as illustrated. Readrite meters are recognized for their sturdy accuracy coupled with low price. Easily installed. Require $\frac{3}{32}$ in. hole for mounting.



A.C. Type

D.C. Type

575 OUTPUT METER

A reliable instrument for indicating output voltage of radio set. Practical D.C. Voltmeter with Copper Oxide rectifier of full wave type. The assembly includes voltmeter, rectifier, jacks and condenser. Connect low voltage (0-5) jacks to dynamic speaker voice coil, high voltage (0-50) jacks to magnetic speaker terminals. Test leads included in \$75.



No. E6401.
List, \$7.50.

\$4.41

No. 555

Exactly same assembly as described above with exception that it is mounted on panel. This instrument is the same output meter as used with 550 Oscillator. No test leads included.



\$3.83

No. E6460.
List, \$6.50.
NET

Model 501 Resistance Meter

Used for testing resistances in radio receiving sets and circuits generally. Can also be used for continuity tests. Requires three small flashlight cells which will last long when not in use. Resistor is connected in series with meter. A reliable instrument at a popular price.



List, \$2.50.
NET

\$1.47

503 RESISTOR

Resistor, 1150 ohms without tip jacks. To increase reading of No. 501 Resistance Meter to 50,000 ohms.

No. E6356.
List, \$1.00.
NET

\$59c

Readrite Plug-In Socket Test Meters

For reading plate or filament voltage by plugging directly into tube socket. 4 iron sockets.

Retail, \$3.00.
NET

\$1.76

No. E6391, Type 146, Plate voltmeter 0-300 V. D.C.

No. E6391, Type 150, Grid voltmeter 0-50 V. D.C.

\$1.76

Retail, \$3.00. NET

No. E6392, Type 152, Filament voltmeter 0-10 V. A.C.-D.C.

\$1.47

Retail, \$2.50. NET

Model 55 D.C. Voltmeters

No.	Type	Volts	List	NET
62250	601	0-1	\$1.00	
62251	603	0-3		
62252	605	0-5		
62253	335	0-5		
62254	318	0-10		
62255	316	0-15		
62256	333	3-0-3		
62257	607	0-25		
62258	608	0-25	2.50	1.47
62259	337	0-50	1.00	.59
62260	337H	0-50	3.00	1.78
62261	331	0-100	1.00	.73
62262	339H	0-100	3.00	1.76
62263	342	0-150	1.50	.88
62264	342H	0-150	3.00	1.76
62265	341	0-300	3.00	1.76
62266	347P	0-500	4.00	2.35
62267	246P	0-60-500	4.00	2.35
62268	746	0-750	5.00	2.94
62269	341	0-8-100	2.00	1.18
62270	809	0-20-60-200	5.00	2.94

59c

Types 608, 337H, 309H and 342H are high resistance meters.

D.C. Ammeter

No.	Type	Range	List	NET
2271	380	0-1	\$1.00	
2272	381	0-5		
2273	382	0-8		
2274	338	0-10		
2275	101	1-0-1		
2276	303	3-0-3		
2277	606	6-0-6		
2278	110	10-0-10		
2279	220	20-0-20		

59c

D.C. Milliammeters

No.	Type	M.A.	List	NET
2280	305	0-5	\$2.00	\$1.18
2281	311	0-10	1.75	1.03
2282	325	0-25	1.00	.59
2283	350	0-50	1.00	.59
2284	390	0-100	1.00	.59
2285	391	0-150	1.00	.59
2286	399	0-300	1.00	.59
2287	395	0-20-4-100	1.75	1.03
2288	402	0-15-150	1.75	1.03

A.C. VOLTMETER

No.	Type	Volts	List	NET
62289	314	0-4	\$2.50	\$1.47
62290	352	0-10	2.50	1.47
62291	351	0-15	2.50	1.47
62292	348P	0-150	4.00	2.35
62293	349P	0-300	5.00	2.94
62294	247P	0-600	6.00	3.53
62295	249	0-750	7.00	4.12
62296	355P	0-15-140	4.00	2.35

A.C. MILLIAMMETERS

No.	Type	M.A.	List	NET
62344	370	0-25	\$2.50	
62345	371	0-50		
62346	372	0-100		
62347	373	0-250		
62348	374	0-500		

\$1.47

TYPE H FLANGE

Used to convert Readrite Model 55 meters to wide flange type. Black 3 hole rim mounting holds meter to panel without back support. Flange diam. 2 1/2 in.

No. E6367.
List, 15c.
NET

9c

Plug In AC Line Meter

A meter which plugs directly into A.C. light socket and indicates supply voltage. Long tube life by showing excess voltage. Needed with all A.C. sets.

Wt. 1 lb.
No. E6389, Type 148, 0-150 V. A.C.-D.C.
Retail, \$3.00. NET

\$1.76

READRITE No. 525 EXPLORING COIL

For localizing r. f. trouble. Preferred use is with oscillator for supplying signal to coil. Both coil and connecting wire are completely shielded.

No. E5403.
List, \$3.50.
YOUR PRICE.....

\$2.06



We carry a complete line of Readrite Meters for all purposes. Write us about any special meter requirement. We have it or can get it for you. At your request we shall be pleased to send you free, complete literature on the Readrite line of meters and test equipment, and we shall keep you posted from time to time on the latest developments in the READRITE equipment.

WESTON AND JEWELL RADIO INSTRUMENTS

Jewell Transmitting Meters

Jewell meters set the standard for quality and precision. They are extensively used for building special test panels and service instruments; for use on experimental laboratory apparatus and in amateur transmitting. Case diameter 3 in. with flange 3 1/2 in.

Pattern 54 D. C.			
No.	Range	List	NET
E4437	0-8 volts	\$7.50	\$5.51
E4439	0-50 "	7.50	5.51
E4440	0-160 "	9.50	8.98
E4441	0-300 "	12.00	8.82
E4443	0-1 amp.		
E4483	0-20 "		
E4446	0-25 "	7.50	5.51
E4447	0-50 "		
E4510	0-75 "		
E4450	0-500 "		

Pattern 74 A. C. Filament Meters			
No.	Range	List	NET
E4812	0-1 amp.		\$7.50
E4813	0-5 "		
E4814	0-15 M.A.		
E4485	0-150 "		NET
E4486	0-3 volts		
E4487	0-20 "		\$5.51
E4488	0-150 "		
	List, \$9.50.		
	NET		\$6.98

WESTON MODEL 677 TUBE CHECKER

The newest and latest tube checker. Checks all new tubes, old type tubes, and new tubes as developed. Condition of tube plainly indicated to buyer as "Satisfactory," "Doubtful," or "Unsatisfactory."



Provided with Spare Sockets
Never obsolete. Spare sockets for four, five, six, and seven prong tubes are provided with color coded wires, ready to connect whenever new tubes appear. Large tube worth meter has colored multi-arc scale showing clearly limits of each type of tube. A.C. Voltmeter measure use of power tube shorts. Neon short lamps indicate all possible tube shorts. Size 18"x14"x6 1/2" high.
No. E7730. List, \$85.00. NET

\$61.48

Jewell Pattern 68 R. F. Thermo-Galvanometer

An extremely accurate instrument. Reading is 115 M.A. Full scale. Vacuum couple type construction. This Jewell instrument has an overload capacity of 50%. Diameter of case 4.3 inches.
No. E4507. List, \$15.00.
YOUR PRICE \$11.03

Jewell Pattern 85 D. C. Millimeter

Permanent magnet moving coil type. Accurate within 2%. Flush type bakelite cases with 3/4" flange.
No. E4491. 0-1 M.A. List, \$9.00. NET \$6.61
No. E4492. 0-5 M.A. List, \$15.00. NET
No. E4493. 0-10 M.A. NET
No. E4494. 0-30 M.A. \$5.51
No. E4495. 0-50 M.A. NET



Jewell 675 Tube Checker

Precise—Dependable
—Accurate. Operates directly from 110-115 volt 60 cycle A.C. line. Equipped with 0-10-50 millimeter. 16 sockets provided to permit test of present type tubes without adapters. Complete instructions etched on rear cover plate. Tube limits on etched plate on front. A self-contained transformer provides the proper voltage for all testing purposes.
No. E4525. List, \$35.00.
YOUR PRICE \$25.73

\$25.73

JEWELL DOUBLE RANGE 0-10-100 VOLTMETER

With Switch. Nat. No. 140. A two inch panel mounting meter with double reading switch mounted through lower edge of 1/2 in. flange. Double range 0-10, and 0-100 V. All movement parts silvered. Has zero adjustment. A regular \$9.50 value.
No. E5495. NET
\$2.95



Weston 301 D. C. Millimeter

Flush type meters. Permanent magnet. Moving coil type. Accurate within 2%. Rectifier type listed below is a very sensitive A.C. instrument using full wave copper oxide rectifier.
No. Range List NET
E7750 0-1 M.A. \$10.00
E7751 0-5 " 8.00
E7752 0-25 " 8.00
E7753 0-50 " 8.00
E7754 0-500 " 8.00

Rectifier Type
E7755 0-1 M.A. } 12.50
E7756 0-5 M.A. } \$9.19

Weston 571 Output Meter

Useful in sets, sound and public address systems. Copper-oxide rectifier type voltmeter. Range 0-1.5-6-15-50-150 volt. Self-contained condenser for blocking any D.C. component available when required. Size 5 1/2" x 3 1/2" x 2 1/2". Scale length: 2.3".
No. E7732. List, \$30.00. NET
\$22.05



JEWELL PAT. 190 A. C.

2-in. flush type A.C. meter for panel mounting. Accurately calibrated. Saves tubes by indicating whether proper A.C. voltages are being used. A precision instrument of the finest type.
No. E4476. 0-3 volts.
No. E4478. 0-20 volts.
List, \$7.50. **YOUR PRICE \$5.50**



Weston Model 489 Portable Meters

Miniature portable D.C. instruments, small, compact, of sterling quality and dependable accuracy. Black bakelite cases. Silver-gray etched scales with black markings. Voltmeters supplied with pair of 30-inch flexible cables.
No. Range List NET
D. C. VOLTMETERS
E7763 0-8-200 V. (125 ohms per volt) \$13.50 \$9.93
E7764 0-8-200 V. (1000 ohms per volt) \$22.50 16.54
VOLT MILLIAMMETER
E7765 0-8-200 V., 2 M.A. (125 ohms per volt) 21.00 15.44
Especially suited for servicing auto sets.



Jewell 563 Test Oscillator

A new standard of service instrument value. All necessary features for servicing modern radio receivers combined in this instrument. A self-modulated oscillator with frequency ranges covering from 125 to 1500 K.C. Single control adjusts output to any frequency in broadcast and intermediate bands to cover modern superheterodyne sets. The control switch for change to three frequency bands. Operates from self-contained batteries. Completely shielded. Handsomely finished metal carrying case with space for an output meter. Completely equipped with shielded output lead, calibration curves, instruction chart, 30 type tube, and all necessary batteries.
No. E4527. List, \$47.50.
YOUR PRICE \$34.92



Weston 517 A. C. Voltmeter

Movable iron type for A.C. only. Precision construction. Degree of accuracy within two per cent.
No. E7740. 0-3 v.
No. E7741. 0-10 v.
No. E7742. 0-25 v. \$5.88
List, \$6.00. NET
No. E7743. 0-150 v. \$7.35
List, \$10.00. NET



Weston 506 D. C. Voltmeters

Permanent magnet, moving coil type. Degree of accuracy within two per cent.
List NET
No. E7745. 0-8 v. \$7.00 \$4.46
No. E7746. 0-8-200 v. 9.00 5.73

NEW AC METERS

Pattern 75
New rugged instruments of the moving iron type. Flange 3/4 in. dia.
No. E4474. 0-150 v. Retail, \$9.50. **\$6.98**
No. E4475. 0-3-15-150 v. Retail, \$13.50. **\$9.92**
NET
No. E4489. 0-15 volts. Retail, \$9.50. **\$5.51**
No. E4490. 0-15 volts. Retail, \$7.50. **\$5.51**
NET



Weston 526 Voltmeters

A.C. miniature portable instruments, same as Model 489 D.C. but wound in a mottled red and black bakelite case. Diam. of case 2 1/2 in.
No. Range List NET
E7755 0-150 V. \$9.00 \$6.62
E7756 0-150-300 V. 15.50 11.40
E7757 0-300-900 V. 18.50 13.60
E7758 0-3-15-150 V. 18.50 12.13



JEWELL 444 SET ANALYZER

2-meter radio set analyzer for testing every type of radio receiver. Tests all tubes without adapters, under actual operating conditions. Measuring range: A.C. Meter 0-4-8 amps., 0-20-100 M.A. and 0-3-8-160-800 volts; D.C. Meter, 0-12-80-130 M.A., 0-6-12-30-60-20-300-000 volts, 0-1-100-10-100-100-000 ohms and low-medium-high test leads. Complete with all necessary test leads, plus clips, adapter and instructions.
No. E4528. List, \$112.00. NET
\$82.32



ADAPTERS, PLUGS, CONNECTORS, ETC.

TUBE ADAPTERS

905 KS
Na-aid adapter for testing types 57 and 58 tubes in tube testers not provided for these tubes. Six hole top, five pin base. Holes No. 3 and 4 connect to Pin No. 5. Corresponds to Jewell No. 57, Weston D-70157, Supreme 965 KS.
No. E960. List, \$1.00. NET **59c**

945 CG
For testing 41 and 42 tubes in testers not provided for these types. Six hole top, five pin base. Control Grid Hole connected to a cap on the side of this adapter. All other connections are through.
No. E961. List, \$1.25. NET **73c**

944 JT
For testing second plate of 80 rectifier tubes in Jewell 209 testers. Four hole top, four pin base. No. 1 hole to No. 2 pin, and No. 2 hole to No. 1 pin. Same as Jewell J-10547.
No. E962. List, \$1.25. NET **73c**

975 KP
For testing new seven pin power amplifier tube in tube tester. Holes 5 pins. Holes 2 and 3 are connected to pin 2; holes 6 and 7 are connected to pin 3; other connections are through.
No. E963. List, \$1.00. NET **59c**

955 GGL
For testing Wunderlich 4 tube 5 pin tube testers, and with 955 GGLK adapter for testing Wunderlich 4 tube 5 pin circuits in set testers and analyzers. 5 holes, 5 pins. The two grid holes are connected to a solder and brought down to the grid pin. Cathode pin connects to flexible lead which fits cap of tube. Other connections are through.
No. E964. \$1.25. YOUR PRICE **73c**

94 BRR
Used to test Raytheon B1 Half-Wave Rectifier Tube in any tube tester. 4 holes, 4 pins.
No. E965. List Price, \$2.50. YOUR PRICE **\$1.47**

SET ADAPTERS

905 L ANALYZER PLUG
Na-aid plug for later types of analyzers and set testers having six or seven wire contacts. Five pin base. To replace plugs on test equipment or for connecting bench testing equipment.
No. E966. List, \$3.00. NET **\$1.76**

No. E967 With 5 foot cable. List, \$5.00. NET **\$2.94**

No. E968 954 D8. Five to four adapter. List Price, \$1.25. NET **73c**

UX and UY ADAPTERS
No. E1608. Five prong socket on a 4 prong plug. For testing sets in 5 prong A.C. tubes in D.C. testers.
No. E1609. 4 prong socket on a 5 prong plug. For testing grid and plate in 5 prong A.C. sockets.
List Price, 75c. NET **39c**

ANALYZER PLUG

906 L
Used in later types of set testers and analyzers. Six pin base. For those wishing to rearrange their leads to fit this plug.
No. E969. List Price, \$3.50. NET **\$2.06**

No. E970 With 5 ft. cable. Cable consists of six wires; four wires go to the prongs, the fifth to the latch, and the sixth to the receiver.
List, \$5.00. NET **\$3.23**

No. E971 964 D.S. This is the same as No. 970 with a five adapter. Permits new tube measurement without change in wiring.
No. E972. 964 D.S. The Na-aid six to four adapter. Simply insert in proper socket to modernize your testing equipment.
List Price, \$1.25. NET **73c**

965 DSW TWIN ADAPTERS

Na-aid standard equipment twin adapters for Jewell 41 and 42 and Weston 565 Analyzers. One has five holes and six pins; the other six holes and five pins. A wire connects the suppressor grid circuit and can be changed for measurements. The five hole, six pin adapter is fitted with a pin for snap-on fastening to the analyzer plug.
No. E973. List, \$2.50. NET **\$1.47**

965 DW
Used with Jewell 199 and Weston 565 Analyzers. Corresponds to Jewell-Weston D-70162. Same as 965 DW except that the analyzer plug adapter is fastened with a screw.
No. E974. List Price, \$2.50. YOUR PRICE **\$1.47**

975 DW
Na-aid twin adapters used for set analysis of the 7 pin power amplifier tubes. One has 7 holes and 5 pins, the other 5 holes and 7 pins. One fits on the analyzer or set tester plug; the other fits in the tube.
No. E975. List Price, \$3.00. YOUR PRICE **\$1.76**

Extra Speaker Adapters

Type 110
Designed so that additional speaker can be connected to any radio set using push-pull amplification without requiring disconnection of any of the wiring or additional soldering.
No. E1600. List Price, \$1.00. NET **48c**

Type 117
Designed so that both grid and plate connections can be taken from one tube permitting connection of additional speakers and use of a Tone Control or Radio Silencer.
No. E1610. List Price, \$1.35. NET **66c**

Type 111
Designed to permit additional speaker connections to any set using pentode output tubes.
No. E1611. List Price, \$1.35. NET **66c**

Type 109
Pentode output adapter permitting connection of additional speaker to sets with only one pentode tube.
No. E1612. List Price, 75c. NET **37c**

MAKE YOUR OWN ADAPTERS

The interchangeable features of these Eby adapter sockets and plugs make them suitable to every adapter requirement. A 1/4 in. hole is provided in the side of the unwired standard plug sections for bringing in leads for cutting in external circuits. The many combinations in which these adapters may be connected, permit use of receivers and test sets which would otherwise be rendered obsolete unless revised. Also ideal suited for connecting accessory equipment such as phonograph or short wave units. Indispensable for modernizing test equipment.

Socket (Top Section)			Plug (Bottom Section)		
No.	Holes	NET	No.	Holes	NET
No. E2975	4	1 1/2c	No. E2978	4	9c
No. E2976	6	1 1/2c	No. E2979	6	9c
No. E2977	8	1 1/2c	No. E2980	8	1 1/2c

WIRED ADAPTERS
Wired units, without hole at side. A highly convenient combination type unit. Combinations of 4, 5 and 6 as listed below:
No. Socket Plug No. Socket Plug
E2981 4 4 E2984 5 5 E2987 6 3
E2982 4 5 E2985 5 5 E2988 6 5
E2983 4 6 E2986 5 6 E2989 6 6
NET EACH **35c** EACH **41c**

MODERNIZE ANY RADIO RECEIVER

Enjoy the efficiency of the new type tubes in your old receiver. These adapters enable you to make the change quickly and economically and without wiring changes or soldering.

24 to 57 Adapter
Permits use of '57 tube in place of a '24 in any set without change in wiring. Six prong receptacle connected to a five prong base.
No. E1660. List, 75c. NET **39c**

35 or 51 to 58 Adapter
Permits use of a '58 tube in place of a '35 or 51 tube. Six prong receptacle connected to a five prong base.
No. E1661. List, 75c. NET **39c**

38 to 41 Adapter
For using a '41 tube in place of a '38 tube. Six prong receptacle on top, five prong base plug. For automobile sets only.
No. E1662. List, \$1.00. NET **53c**

45 to 46 Adapter
For inserting new '46 tube in place of '45 tube acting as a Class A amplifier. Five prong receptacle on top connected to a four prong base.
No. E1663. List, \$1.00. NET **53c**

80 to 82 Adapter
For inserting '82 mercury vapor rectifier in place of 280. Four prong receptacle on top connected to four prong plug. Suitable for use in sets with filament leads to drop. Filament voltage to 2 1/2 v.
No. E1664. List, \$1.25. NET **61c**

45 to 47 Adapter
Permits the use of the new 247 pentode power tube in place of the 245, with no wiring changes necessary.
No. E1629. List, 75c. NET **38c**

EARPHONE ADAPTERS

Ideal for DX reception and for persons who are unable to hear. Also suitable for connecting additional speaker to sets with one power tube.
No. E1630. 5 prong. List, 63c. NET **57c**
No. E1631. 4 prong. List, 63c. NET **57c**

NEW TEST ADAPTERS

Latest adapters to permit testing of new tubes in all testers without re-wiring. Easily installed. Properly constructed for long service.

No. 58
For testing new 57 and 58 tubes in all types of tube testers.
No. E1632. List, 75c. NET **42c**

No. 46
To permit testing of No. 46 tube in testers equipped for testing type 45 tubes. Simply insert adapter into '45 socket.
No. E1633. List, 75c. NET **42c**

No. 43
Supplied with lead to permit testing 1160c 41 and 42 tubes in 24 socket of tube checker. Also used for testing the new 6 1/200E Wunderlich 4 tube 5 pin.
No. E1634. List, \$1.00. NET **56c**

No. 55
For testing No. 55 tubes. Place adapter in tube checker socket used for testing 27 type tubes.
No. E1635. List, \$2.50. NET **\$1.43**

No. 65 Analyzer Plug
For use with set analyzers. Five prong receptacle on top and 8 prongs on bottom. Used in some of the latest types of set testers and analyzers.
No. E1636. List, 75c. NET **42c**

No. 82 Adapter
For testing new 82 rectifier tube in any 4 prong socket which furnished 2 1/2 volts to filament. Provided with switch to permit measurement of both plates. Merely flip switch up or down.
No. E1637. List, \$2.00. NET **\$1.09**

No. 83 Duo-Diode
Rid adapter same as No. 82 except that it has a 5 prong socket and a 5 prong base, for testing Duo-Diode tubes used in Magic radio sets.
No. E1638. List Price, \$2.50. NET **\$1.43**

No. 83T Adapter
To be placed in 280 socket for testing new 83 mercury vapor rectifier. Both plates can be measured by flipping the switch up and down.
No. E1639. List Price, \$2.00. NET **\$1.09**

ELIMINATORS—CHARGERS—BATTERIES

KNIGHT SUPER-POWER "B" ELIMINATOR



A high quality "B" eliminator at a price that defies comparison. Scientifically engineered design, rigid standards of construction under careful supervision, and use of the finest materials, were combined to produce a unit to give long-life, satisfactory service. Made to sell for \$25.00. Now offered at a fraction of its real value.

LESS THAN COST OF B BATTERIES

The Knight Super-Power "B" Eliminator truly represents permanent power at but a slight cost. Forget your "B" battery worries with this all-dry unit. It will give you up to 180 volts of "B" power without distortion. An extremely reliable "B" power device that will give you years of highly efficient service—and with real economy. Quality was not sacrificed in the interest of cost. Here is a value

\$485

that cannot be duplicated. For less than the cost of a set of B Batteries you can now have permanent uninterrupted radio set operation. Uses a UX280 Full Wave Rectifier tube and operates on 110-120 volt A.C. 50-60 cycle current. No. E8125. Complete with UX 280 Rectifier Tube. Value, \$25.00. **YOUR PRICE.**

Janette Rotary Converter

Used to convert D.C. to A.C., making possible use of A.C. receivers, amplifiers and other A.C. equipment from 32 volt house plants, 110 volt D.C. power lines, portable automobile plants and numerous other sources. Janette Rotary Converters are standard wherever converters of highest quality are necessary. Extremely quiet and compact. Expertly engineered and constructed of finest material for long life.

Note—We can supply immediately Janette Converters of every description and for every purpose. Write us for information and prices.

No.	Type	Watts Output	List	NET
E8276	CA-25-F	80	\$40.00	\$27.44
E8281	CA-20-F	110	49.50	33.96
E8278	CA-18-F	150	54.50	37.39
E8282	C-13-F	300	70.00	48.02
32 Volts D.C. to 110 Volts, 60 Cycle A.C.				
E8277	CA-25-F	80	\$40.00	\$27.44
E8280	CA-20-F	110	49.50	33.96
E8279	CA-18-F	150	54.50	37.39
E8283	C-13-F	300	75.00	51.45

G. E. TUNGAR CHARGERS



A practical, noiseless unit for charging all radio and automobile "A" and "B" storage batteries. No adjustments necessary. The prices quoted include bulbs. Quiet operation from Genuine Tungar Bulbs.

No. EB200.	5 Ampere. For 110 V., 60 cycle operation.	WT. \$15.29
List.	\$24.00.	
NET		
No. EB201.	2 Ampere. For 110 V., 60 cycle operation.	WT. \$8.92
List.	\$14.00.	
NET		

BATTERY BOOSTER

A small compact dry metal-lic charger for 6 volt storage batteries. Keeps an auto or radio battery fully charged. Cannot overcharge as charger tapers down, then shuts off automatically.

For Radio or Auto
Very economical. Results in longer battery life. A necessity where auto has radio, heater, etc., causing heavy battery drain. Sbz. wt. 7 lbs. No. E1408. List. \$9.75. **NET. \$5.73**

Valley Charger Contact Points
Standard replacement points for the Valley vibrator type charger. Complete with carbon brushes. No. E7800. List. \$1.00. **NET. 33c**

STORAGE "A" BATTERIES



A heavy duty solidly constructed battery that will deliver plenty of power. Plenty of "kick" to this staunch, leak-proof battery, which delivers its maximum power under the most trying conditions. The thick plates and carefully sealed cells built for long enduring service. Shpg. wt., 45 lbs.

E8969. **YOUR SPECIAL LOW PRICE \$4.75**

EXTRA HEAVY DUTY
A 6 volt, 140 amp. extra heavy duty, leak-proof storage battery. Delivers constant flow of energy. Shpg. wt., 55 lbs. No. E8988. **YOUR PRICE \$7.25**

3 VOLT "A" BATTERY
Sturdy, leak-proof, well-constructed "A" battery cell for the new type '30, '31, '32, and '33, 2 volt tubes. To be used only with standard receivers designed to operate with the tubes specified. No. E8970. **YOUR PRICE \$4.45**

EVEREADY AIR CELL



The Eveready Air Cell Battery is developed to supply maximum current to the new type '30, '31, '32 and '33 two-volt tubes. Should be used only with standard receivers designed for these tubes. Extremely compact and carefully constructed to deliver maximum power for the purpose intended. Cell contained in solid, leak-proof case. Not suitable for use in receivers employing any other tubes than those specified. Shipping wt., 28 lbs. No. E8600. List. \$5.00. **NET. \$5.55, less 2%.**

\$5.83



Quality Storage Battery Charge Tester

No. E1440. Pocket size meter quickly shows condition of storage battery. Goes away with a hydrometer. 8 oz. **NET. 58c**
No. E8480. DRY CELL TESTER. Tests all types dry cells. Heads 0-10 scale. Cannot short battery. List. \$1.00. **NET. 21c**

B BATTERY TESTER
No. E1441. Tells condition of "B" batteries at a glance. 0-50 volts. **44c**
No. E1442. COMBINATION battery-ammeter 0-40 amps. and 0-50 volts. **YOUR PRICE. 68c**

King Cole Resistance Coils



Make possible 6 volt "A" current supply directly from 32 volt D.C. systems. For all types of battery sets.

No. E1113. For 5-1/4 amp. tubes.
No. E1110. For 6-1/4 amp. tubes.
No. E1114. For 7-1/4 amp. tubes.
No. E1111. For 8-1/4 amp. tubes.
List, \$2.00. **NET EACH. \$1.18**

No. E1112. Resistance Coil for charging 6 volt Batteries from 32 volt systems. List, \$2.50. **NET. \$1.47**

King Cole Super "A" Eliminator For 32 Volt Systems



A new eliminator designed to adapt 32-volt farm lighting plants for supplying energy for the new 2- and 4-volt tubes, also storage battery sets using 6-volt tubes. Carefully engineered for dependable efficient service. **For New 2 Volt and 4 Volt Sets**

This unit will furnish the "A" current for sets using two or four volt tubes, ran from five tubes requiring 1/2 amp. to ones requiring 1 amp. Equipped with a voltmeter and regulating dial for exact adjustment of voltage. Once adjusted, unit will take care of load voltage variation. Available also for operation of battery sets using 6 volt tubes. No. E1115. For 2 and 4 volt. No. E1116. For 6 volt. List, \$6.00. **YOUR PRICE. \$3.82**

KNIGHT 'B' BATTERIES

THE 45 VOLT SUPER "B"

A sturdy, powerful battery intended especially for multi-tube sets which draw considerable current. Always to be used where the circuit incorporates power tubes. Extra heavy and large. Size $8\frac{1}{2} \times 4\frac{1}{2} \times 7\frac{1}{4}$. Shipping wt., 12 lbs. A popular battery that has proved its quality in actual service, rendering long-time performance with efficiency and economy.

\$1 35

No. E700. List, \$2.25.
YOUR SPECIAL PRICE

KNIGHT STANDARD 45 VOLT "B"

Standard, upright fine quality "B" battery. Will serve well with receivers using up to six tubes. Accurately cell spaced to offer remarkable recuperative power. Tapped at 22½ volts. Dependable and uniform giving good battery service at a new low price. A very popular seller and profitable. too.

No. E701. List, \$2.00.
YOUR PRICE

93c

1½ VOLT DRY CELL

Made under rigid specifications of best materials. High amperage, 1½ volts constant. For dry cell receivers and many other radio needs. Fresh stocks only. Shpg. wt. 3 lbs.

21c

No. E704. List, 50c.
YOUR PRICE

4½ VOLT "C"

A fast selling, well made "C" battery. Will maintain rated voltage with continuous use and amplify without distortion. Reduces "B" battery drain. Size $1\frac{1}{2} \times 2\frac{3}{4} \times 4$. Shpg. wt. 1 lb.

19c

No. E703. List, 50c.
YOUR PRICE



BURGESS "B" BATTERIES



The Standard Line

Burgess Batteries meet the rigid specifications of the U. S. Army, the U. S. Navy, and the U. S. Bureau of Standards. Known the world over for quality. Of famous "Chrome" construction, water-proof and moisture-proof. Rugged honey-comb construction.

rigid bracing and seamless cans of pure zinc. Always fresh stocks. Prices lower in unit packages. Write for quotations.

Catalog No.	Factory No.	Volts	Wt. Lbs.	List Price	Net
SUPER "B" BATTERIES					
E720.	21308	45	16	\$3.25	\$2.46
E719.	22308	45	10½	2.35	1.78
STANDARD "B" BATTERIES					
E721.	10308	45	13½	\$2.60	\$1.96
E722.	2308	45	9½	1.75	1.32
E713.	2308	45	10½	2.00	1.51
E712.	2158	22½	5	1.50	1.14
E711.	2158	22½	5½	1.50	1.14
MAJOR "B" BATTERIES					
E714.	F 308	45	13½	\$2.95	\$2.25
E715.	D 308	45	9½	1.95	1.48
SPECIAL AUTOMOBILE "B" BATTERIES					
E716.	3305	45	10	\$2.25	\$1.71
E717.	21305	45	16	3.75	2.75
"C" BATTERIES					
E718.	4156	22½	1½	\$1.25	\$0.95
E727.	3156	22½	2	1.25	.95
E724.	2370	4½	1½	.40	.30
E728.	5540	7½	1	.75	.57
PORTABLE BATTERIES					
E723.	5308	45	4	\$2.00	\$1.51
E726.	5380	4½	¾	.40	.30
DRY CELL "A"					
E725.	5A	1½	2½	.50	.39

EVEREADY "B" BATTERIES



"Eveready" or "B" batteries is associated with long life and dependable service. A complete popular line of always fresh and tested genuine Eveready "B" batteries is presented below. Fast moving and long shelf life. Stock up. Write for special prices in unit packages.

Catalog No.	Factory No.	Volts	Wt. Lbs.	List Price	Net
LAYERBUILT					
E730.	486	45 Large	10	\$2.95	\$2.25
E738.	485	45 Medium	11	1.95	1.48
ROUND CELL					
E741.	870	45 Large	15	\$2.60	\$1.96
E742.	872	45 Medium	10	1.75	1.32
MEDIUM					
E743.	787	45 Flat	10	\$2.75	\$2.08
E736.	786	22½ Flat	6	1.50	1.14
E744.	779	22½ Vertical	6	1.50	1.14
AUTOMOBILE "B" BATTERIES					
E745.	794	45 Heavy	18	\$3.75	\$2.83
E739.	798	45 Medium	10	2.25	1.71
E740.	798	22½	2	1.50	1.14
"C" BATTERIES					
E737.	788	22½	2	\$1.25	\$0.95
E746.	773	7½	8 oz.	.75	.57
E747.	781	4½	6 oz.	.40	.30
E734.	771	4½	1 oz.	.40	.30
PORTABLE BATTERIES					
E733.	762	45	3	\$2.00	\$1.51
E748.	783	22½	1½	1.60	1.14
E749.	764	22½ Vertical	3	1.50	1.14
DRY CELL "A"					
E735.	7111	1½	2½	.60	\$0.39
AIR CELL "A" BATTERY					
E8600.	A600	2	28	\$8.50	\$5.83
SPECIAL STANDARD 45 VOLT "B" BATTERY					
A standard full-size 45 volt "B" Battery at a price which will help you smash competition. Of good quality, well built tested cells, packed full of battery pep. A special value only possible through economies in purchase. Stock up—sales are certain to be heavy. Shpg. wt. 10 lbs.					
No. E707.					
YOUR SPECIAL PRICE					76c

Crystal Sets—Headphones—Accessories

PHILMORE CRYSTAL SETS 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 a compact black leatherette case with crystalline front panel. It employs a dust-proof glass-enclosed supersensitive crystal detector making possible the best of results. A fast seller everywhere. Accessories of good quality are listed below. Shpg. wt. 3 lbs.



\$1.58

No. E5940. List, \$3.00.
YOUR PRICE

THE SUPERTONE

A rigidly constructed crystal set which will give unlimited service. Gives the utmost in entertainment on local stations and most in effect reception from stations all over the country is available. A sensitive crystal enclosed in a dust proof glass casing helps bring stations in loud and clear. Shpg. wt. 2 lbs.



No. E5933. List, \$1.50. **69c**

YOUR PRICE

THE LITTLE WONDER

Compact in size but big in results. This set will receive broadcasting within 25 miles of a station. The open type detector permits adjustments to be made to the finest degree. Set includes a supersensitive crystal assuring quick results when looking for a station because the entire surface of the crystal is sensitive. Shpg. wt. 2 lbs.

No. E5931. List, \$1.00.
YOUR PRICE

58c



PHILMORE SELECTIVE

Designed to give most efficient results and possessing unusual selectivity. Built with a tapped coil matched with a .00035 Mfd. variable condenser. The reception on this set is loud and clear and will bring in one station after another. Tuning out all other stations. It has double connection posts 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 bright colored cabinet with a panel of modernistic design. Shpg. wt. 3 lbs.

No. E5932. List, \$5.00.
YOUR PRICE

\$2.45



HEADPHONES AND AERIAL

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, insulators and all necessary parts for a perfect aerial installation. Shpg. wt. 4 lbs.

No. E5946. **YOUR PRICE**

\$1.33

PHILMORE—1-2-3 TUBE SETS

Efficiently designed battery operated sets using the new X 230 and X 231 Tubes. Economical to operate, batteries last twice as long. These new circuits embody the use of a fixed condenser and spider web coil assuring easy tuning, selectivity, sensitivity and plenty of volume. Shpg. wt. 10 lbs.



No. E5935. 1 Tube Set. **\$4.25**
List, \$7.50. **YOUR PRICE**
No. E5936. 2 Tube Set. **\$5.25**
List, \$9.00. **YOUR PRICE**
No. E5937. 3 Tube Set. **\$7.45**
List, \$13.50. **YOUR PRICE**

Sets listed above are priced less tubes and batteries.

TUBE AND BATTERY EQUIPMENT

1 Tube Kit. Consists of one type 230 tube, one 22½ Volt "B" Battery and one 1½ Volt Dry Cell. Shpg. wt. 6 lbs. No. E5942. **YOUR PRICE \$1.75**

2 Tube Kit. Consists of two type 230 tubes, one 45 Volt "B" Battery and two 1½ Volt Dry Cells. Shpg. wt. 16 lbs. No. E5943. **YOUR PRICE \$2.85**

3 Tube Kit. Consists of three type 230 tubes, one type 231 tube, one 22½ Volt and two 45 Volt "B" Batteries, and two 1½ Volt Dry Cells. Shpg. wt. 32 lbs. No. E5944. **YOUR PRICE \$4.95**

AMERICAN BELL SENSITIVE HEADPHONES

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 bakelite molded caps make them light in weight. The cut magnet gives added retentivity. D.X. fans will be delighted with the fine reception made possible with these quality headphones. Wt. 2 lbs.



No. E1916. 3000 Ohms. **\$1.25**
YOUR PRICE
No. E1915. 2000 Ohms. **97c**
YOUR PRICE

EXTRA CAPS No. E1919. PRICE, EACH **15c**

DIAPHRAGMS No. E1921. PRICE, EACH **7c**

GLASS ENCLOSED CRYSTAL DETECTOR

A dust-proof glass enclosed detector complete with supersensitive crystal. Standard in 90% of the crystal sets made. A fast selling item. Shpg. wt. 1 lb. No. E5945. **YOUR PRICE 27c**



Open Type Detector

Universal Joint on swivel arm provides quick accurate adjustment on any point of crystal. Hand some polished metal finish. Complete with crystal. Shpg. wt. 8 oz. No. E5481. **YOUR PRICE 12c**



Meter Tested Crystals

These crystals are tested in laboratory on very sensitive meters. Genuine Galena composition. No. E5256. **YOUR PRICE 23c**



Sensitive Mounted Crystal

Carefully tested mounted crystal. Galena and Silicon with carbon-dum. No. E5255. Per 10, 55c. **NET PRICE 6c**



Cat-Whiskers Crystals

Set of three. Correctly designed and made of the finest quality wire. No. E5257. **YOUR PRICE 9c**



FROST PHONES

Many superior features are incorporated in Frost phones which add greatly to their efficiency and quality of reproduction. Very sensitive. Light in weight, comfortable to wear and easily adjustable.

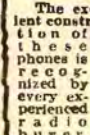
The high quality of these phones assures efficient and long lived service. Shpg. wt. 2 lbs. No. E3360. No. 174. 2000 Ohm. **YOUR PRICE \$1.65**
No. E3361. No. 175. 3000 Ohm. **YOUR PRICE \$1.75**



BRANDES PHONES

The excellent construction of Brandes phones is recognized by every experienced radio buyer. Extremely sensitive to reproduce the faintest signal. Light in weight and adjustable. 2400 Ohms. Shpg. wt. 2 lbs.

No. E1917. **YOUR PRICE \$1.48**



Caps and Diaphragms for Above

No. E1918. CAPS. PRICE, EACH **22c**
No. E1920. DIAPHRAGMS. PRICE, EACH **8c**

PANDORA CRYSTAL SET

Extremely efficient crystal set, distinctively designed and well built of high quality materials. Used for operation at locations not far from broadcasting stations. Surprisingly clear—full range. No critical adjustments. Easily and simply operated. Works over entire broadcast band. Of professional design, yet modestly priced.

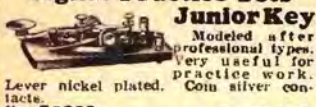


COMPLETE Complete with one pair of quality headphones and aerial kit. Shpg. wt. 5 lbs. No. E1584. **YOUR PRICE \$2.29**

SET ONLY A great little set, smart in appearance, easy to operate and at a bargain price. Shpg. wt. 2 lbs. No. E1583. **YOUR PRICE 96c**

TRANSMITTING KEYS - TELEPHONES - PRACTICE SETS

Signal Practice Sets



Junior Key

Modeled after professional types. Very useful for practice work.

Lever nickel plated. Coin silver contacts. No. E6653. List. \$2.28. YOUR PRICE **\$1.38**

CODE PRACTICE SET

Well-built, key and buzzer assembled on polished wood base. Reproduces high pitched dot and dash sounds of code stations. No. E6650. List. \$3.50. YOUR PRICE **\$1.95**



SENDING KEY

A standard radio constructed to withstand rough use. Heavy cast brass arm, base and supporting posts; 1/4 inch contact points, assisting in heat dissipation. No. E6651. List Price, \$3.50. YOUR PRICE **\$2.04**

For code receiving. Made of high grade materials throughout. Black enameled bar frame, aluminum sounding bar and brass bridge. Polished mahogany finished base. 4 ohm. No. E6655. List. \$2.75. YOUR PRICE **\$1.71**



SIGNAL SOUNDER

A set for the beginner. Includes all salient details of a standard set. Black enameled key base and bar frame, brass bridge, aluminum sounding bar, and nickelled lever. 4 ohm. No. E6654. List. \$4.50. YOUR PRICE **\$2.74**

JUNIOR LEARNER SET

Nickel finished watch case buzzer. diameter 2 3/8 in. For all signaling and test purposes. No. E5265. YOUR PRICE **73c**

Pearl button held in 1/4 hole by spring clasps. Wt. 2 oz. No. E5266. NET **21c**

New, practical, and scientifically designed. A wireless set that is sure to sell fast on sight. Two complete transmitting and receiving units. Equipped with key, buzzer and code plate. A real workable set that every boy is certain to want, and growups too. Practical and yet of tremendous entertainment value. OPERATES UP TO 1000 FEET

Sets operate up to 1,000 feet, designed to work with standard dry cell batteries. These are listed elsewhere in this catalog. Full instructions and 75 feet of wire are supplied with each set. PRACTICAL AND INSTRUCTIVE

A splendid and useful gift item that any boy will welcome. Sets in attractive Maroon and Gold, contained in beautiful display boxes. No. E6656. YOUR SPECIAL PRICE **\$2.06**

NET **21c**

French Type Duplex Cradle Phones

Talks and Rings Thousands of Feet Away. New two-way French style telephones that operate on dry cell batteries; compact, attractive, modern. Furnished in pairs—all ready for use. Only 2 standard dry cells for each set—need to be added.



Real Electric Talking Phones

Practical at home or at work, especially convenient as room-to-room or house-to-garage telephones. Equally useful in offices, factories, public garages, restaurants, stores, etc. Full instructions for rapid connection.

PRACTICAL—USEFUL—CONVENIENT

No. E704. Dry Cells for use with Realphones. NET, EACH **\$0.21**
No. E2516. 100 feet 3 conductor connector cable for outdoor use. **\$1.03**
No. E2517. 100 feet cable for indoor use. **\$0.88**

Complete set consists of 2 Real-phones with buzzers and 35 feet of wiring. Additional wiring may be added as required. Available in four colors. No. E1010. Black. YOUR NET PRICE, **\$3.43**
No. E1011. Green.
No. E1012. Ivory.
No. E1013. Chinese Red. Lots of 3, NET \$3.28 Each.

SPEED-X HI-SPEED PROFESSIONAL KEY

One of the finest automatic keys made. Balanced to perfection and fully adjustable to give plenty of "pen" and "life." Can be slowed down to 8 words per minute or geared to as high rate of speed as desired. Standard, heavy construction throughout—will hold adjustment at all speeds. Carefully designed to afford precision adjustment at all points. Solid 1/4 inch pure silver contacts. Base of bright black enamel. All nickel parts highly polished. An exceptional value. No. E6605. List. \$12.50. YOUR PRICE **\$7.96**

NET **\$7.96**

Connecticut Duplex Cradle Phones

Adequately meets demand for an inexpensive portable type telephone and signal system. For temporary or emergency service, or for permanent installation. Has many uses—two, three or four phones may be connected together utilizing a code of rings for the different locations. For temporary service, two standard flashlight batteries may be inserted in base of each phone. For permanent installation, standard dry cells are required. Will operate efficiently up to 1,000 feet. Foreign type French hand phones with 4 1/2 foot cord. Beautiful two-tone effect. Complete with twenty-five feet of parallel silk-covered wire. No. E1575. YOUR PRICE, EACH **\$5.25**



New Featherweight Headsets

Weigh only 5 ounces. So light and so comfortable you scarcely know you have them on. For amateurs, aircraft, hard of hearing, short wave fans, or anyone wishing light-weight precision-built headphones. May be worn for hours without the slightest discomfort. Each phone laboratory built with extreme precision. Extremely sensitive—widely recommended for DX and weak signal reception. Substantial, flexible steel, lightweight headband. Shpg. wt., 1 lb. A sensational value. No. E795. 4,000 ohm. NET, EACH **\$1.38**
No. E796. 2,000 ohm. SPECIAL NET. **99c**



SUPERSENSITIVE TRANSMITTING BUTTON

Has hundreds of applications in radio and electrical circuits. Carbon granule, readily applicable to any vibrating surface or diaphragm. A constant source of delight to the experimenter. Offered at an unusual low price. 12 Page Booklet Describes Many Uses



A 12 page booklet is furnished with each transmitting button, describing a myriad of uses. For broadcast modulation, telephone work, detectors, stethoscopes, amplifiers, etc. Increases sensitivity and volume on speech amplifier. The experimenter and the amateur will find that this high grade electrical instrument will pay for itself many times in useful, instructive and entertainment values.

Over 50 Circuits Illustrated

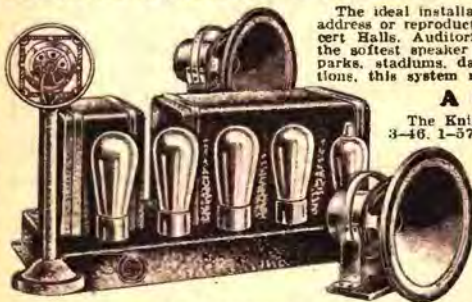
The booklet supplied gives over 50 circuits and illustrations describing interesting and fascinating applications. Physical differences among buttons, but electrical characteristics are identical. Allied is pleased to be in a position to offer this unique transmitter button at this exceptionally low quotation. No. E5440. NET, EACH **23c**



NET **21c**

Public Address and Amplifying Systems

KNIGHT AUDITORIUM PUBLIC ADDRESS INSTALLATION 26 Watt "B" Amplification



The ideal installation where completely adequate facilities are desired for public address or reproduction to as many as 3,000 persons. For Theaters, Churches, Concert Halls, Auditoriums, Conventions and similar locations. Brings the voice of the softest speaker to furthest distances clearly and with ample volume. In ball parks, stadiums, dance pavilions, skating rinks, park concerts and other installations, this system meets a long felt need.

A COMPLETE POWERFUL SYSTEM

The Knight Class B 26 Watt Amplifier is ultra-modern in design using 3-46, 1-57 and 1-83 mercury vapor rectifier tubes. The famous push-push circuit power output is tremendous and supplies more than enough power for complete coverage. So flexible that a large variety of changes can be adapted, additional microphones attached, and a greater number of speakers connected at will.

POWERFUL DYNAMICS

The powerful Dynamics speakers rank among the very finest for public address installation. They produce with amazing fidelity over the entire audible scale with volume and clarity. Amplifier furnishes field current for 2-4,000 ohm Giant Oxford dynamics.

Complete Installation Includes

- 1—Class B-26 Watt Amplifier
 - 2—Giant Dynamic Speakers
 - 1—Microphone Control Box
 - 1—Webster 14 in. Microphone Stand
 - 1—Universal Model X Microphone
 - 1—Set Suspension Springs
 - 1—25 ft. Microphone Cable
 - 2—20 ft. Speaker Cords
 - 1—4 1/2 " C" Battery
- Complete instructions.
List. \$265.00.

No. E9010. YOUR PRICE. Less Tubes... **\$85.95**

MICROPHONE CONTROL

Provides mixing and switching controls. Contains volume control, enabling perfect modulation of reproduction as desired. Permits the gradual fading and increase so desirable with music background and breaking in for announcements.

DELUXE PORTABLE ADDRESS SYSTEM

A complete public address and phonograph system contained in a single case the size of an overnight bag. Weighs less than 40 lbs.



COMPLETE AND COMPACT

An ultra-modern amplifier of exceptional power and tone range, using latest design tubes, two 47's, one 57 and one 82. High grade 2 speed electric motor turntable. Pickup of utmost sensitivity. Universal microphone, dynamic speaker, microphone cable and speaker cord. Mixing control provided for phono and microphone input to supply music background for voice. Provision made for plugging in one additional speaker.

INCLUDES

Case, 13x14x15 1/2 in., containing all items in one single grip—powerful electric amplifier and tubes—two speed electric turn table and pickup—microphone—dynamic speaker—15 ft. microphone cable and 30 ft. for speaker cord. A complete system ready for instant operation.

No. E9012. Complete system, 110 v. 50-60 cycle. Net wt., 39 lbs. Shpg. wt., 50 lbs. Entire system fitted in a small sturdy carrying case, ready for instant operation.

List. \$165.00.
YOUR PRICE. **\$86.75**
COMPLETE with tubes.

PORTABLE ADDRESS SYSTEM

For public gatherings, political meetings, window demonstrations, etc. a 1 s will pay for it in no time. Amplifier has built-in input and control unit for microphone and phonograph. A combination of exceptional utility. Tubes required: 1-57, 1-47 and 1-82.

Weights Only 25 lbs.

Can be put into operation instantly. Case acts as perfect speaker baffle. When closed back snaps on. Entire unit weighs only 20 pounds. Smaller than a traveling bag. Measures 18 1/2 x 11 x 10 in.



Complete Unit Includes:

Little Giant amplifier in sturdy portable case, powerful dynamic speaker, Kellogg Hand Mike, complete with 30 foot speaker and 10 foot A.C. extension cord.

No. E9014.
List. \$68.50.
YOUR PRICE. **\$26.45**
Less Tubes.

PORTABLE 2-SPEED ELECTRIC TURNTABLE

Offers a world of convenience for countless purposes. May be used for connection to the amplifiers and Public Address Systems pictured on pages 24 and 25, for use in the home, movies, meetings, etc.

FOR PUBLIC ADDRESS

The assembly includes the high standard Diehl 2 Speed Motor and Webster Balanced Pickup for reproducing new long playing and standard records. Sturdy reinforced case 17 1/2 x 13 1/2 x 8 1/2. Complete with A.C. and pickup connection cord. Weight, 22 lbs.

Latest No. E9015.
Type Pickup YOUR PRICE. **\$24.85**

SOUND EQUIPMENT

We have offered on these pages amplifier equipment that we feel will meet the most universal needs, ranging from the small 3 watt amplifier to the Giant 26 watt unit. We can furnish promptly all other types of standard amplifier equipment at attractive quotations. Our sound equipment department is supervised by a competent sound engineer to whom we invite you to bring your problems, with the assurance that you will receive correct technical information and recommendations. The apparatus we offer is highest standard and is covered by the RMA guarantee, against any defects of material and workmanship and is conservatively rated.

Window Demonstrating and Inter-Office System

Very popular for centralized or spot coverage. Especially valuable for inter-office announcements, call systems, window demonstrations, etc. Delivers maximum power. Powerful dynamic speaker is housed in an attractive walnut finished case. Microphone is the famous Kellogg Hand Microphone.



Little Giant

No. E9013 includes Amplifier, Power Dynamic Speaker in cabinet, Kellogg Hand Mike, 50 ft. Speaker Extension and A.C. Cord.

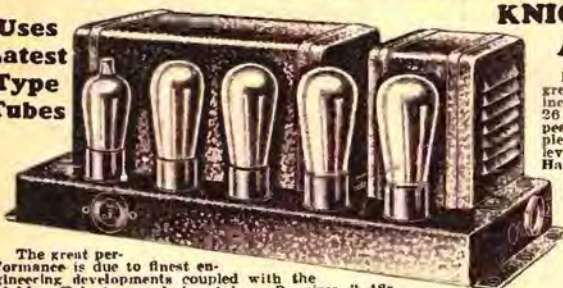
No. E9013.
List. \$75.00.
YOUR PRICE. **\$24.95**
Less Tubes

MANY USES

Amplifier is compact and weighs but 9 lbs. Contains direct input and volume control for microphone and phonograph. Speaker cabinet measures 12 1/2 in. x 11 1/2 in. x 8 in. Uses one 57, one 47 and one 82 tube.

POWER AMPLIFIERS FOR EVERY PURPOSE

Uses Latest Type Tubes



The great performance is due to finest engineering developments coupled with the highly efficient new design tubes. Requires 2-48s, 1-57, and 1-83 (New Type Mercury Vapor Rectifier).

HANDLES 4 TO 5 DYNAMICS AT HIGH POWER LEVELS

The 26 watt Knight Amplifier permits the operation of up to 5 Auditorium Dynamics Oxford Giant Dynamics handle full power of the amplifier with undistorted output. Amplifier contains built-in field supply for 2-4000 ohm dynamics. For greater distribution as many as 30 speakers may be connected with favorable results.

KNIGHT CLASS "B" 26 WATT AUDITORIUM AMPLIFIER

Incorporates the combined engineering skill of a great laboratory and contains features that result in incomparable performance. Output is tremendous—26 watts—sufficient to operate 5 giant dynamics at peak level. For auditoriums seating up to 3,000 people. Up to 30 speakers may be operated at lower levels. Ideal for Auditoriums, Theatres, Schools, Dance Halls, Conventions, Athletic Fields, Ball Parks, and all other large installations. All ratings bona-fide laboratory findings.

BUILT-IN MICROPHONE AND PHONOGRAPH INPUT

Knight Class "B" 26 watt Amplifier contains the 2 button microphone and phono-input built-in. Connection is made directly to the amplifier. Handles with equal efficiency all types of reproduction, with startling clarity at every range.

GAIN 95 DECIBELS

Frequency response is extremely flat. Every tone level reproduced with equal lifelike fidelity. Mechanical construction is extra strong to withstand hardest usage. All electrical units of finest quality. Finished in handsome black crystalline. 110 volts, 60 cycle A.C. Shpg. wt., 27 lbs.

No. E8989. Less Tubes.

\$45⁸⁵

OUR SPECTACULAR NET PRICE



Knight 7 Watt Amplifier

High gain of 69 decibels at 1000 cycles with an exceedingly flat frequency characteristic within 2 DB from 40 to 10,000 cycles.

Field Supply, Mike Phono Input Built In

Microphone current supplied by amplifier. Field supply for one 1,000 ohm speaker also furnished to make this amplifier practically a self contained unit. A master volume control is included as an integral part of the design.

A Giant in Performance

For medium size halls, small theaters, chapels and other similar installations it has no peer. Provides field supply for one 1,000 ohm speaker, in addition to which several magnetic and A.C. Dynamics may be operated. Uses the new tubes, additional 2-47s, 1-57 and 1-82 (Mercury Vapor Rectifier). Finished in handsome, two tone green crackle. 110 v. 60 cycle A.C. Shpg. wt., 13 lbs.

No. E8990. Less tubes.

YOUR PRICE

\$23⁴⁵

Same as above less microphone input and master volume control.

No. E8991. YOUR PRICE

\$16⁷⁵

WEBSTER 3 STAGE P.P.-250 AMPLIFIER



A Super-power 3 Stage Amplifier

Uses the 250 tubes in push-pull to deliver tremendous power. Undistorted output of 12 watts. Tremendous gain amounting to 90 decibels at 1,000 cycles. The output impedance works out of standard phono pickup or input transformer. Output impedance is 4,000 ohms. A splendid amplifier with a wide range of operation permitting an immense variety of installations.

Requires 1-58, 1-48, 2-250 and 2-281 tubes. Performs splendidly with the Oxford Auditorium Dynamic delivering a rich, vibrant tone over the entire scale. Size 17 1/4 x 10 x 7 1/4 in.

No. E8987. Less Tubes.

YOUR SPECIAL PRICE

\$27⁶⁵

Little Giant AC Amplifier Built-in Volume Control, Mike and Phono Input

For small hall systems, window demonstrations, class or lecture room installations, call systems, etc. Input provided for microphone and phono-graph. Very low hum level and amazingly high gain. Output of 3 watts using only 3 tubes.

BUILT-IN DYNAMIC SPEAKER FIELD SUPPLY

Another feature is the built-in dynamic field supply for 2,500 ohm speaker. Will also operate several A.C. dynamic or magnetic speakers. Equipped with Master Volume Control and current supply for microphone operation. Neatly finished in Black Crystalline. Size 12 x 6 1/2 x 4 1/4 in. Requires 1-57, 1-47, 1-82 tubes.

No. E8992. Less Tubes.

YOUR SPECIAL PRICE

\$12⁹⁵

Victor 2 Stage 245 Push Pull Amplifier

A wonderful value at a knockout price. Tremendous volume with unexcelled amplification over the entire audible range.

ABC POWER SUPPLY

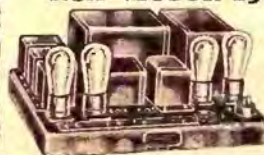
Furnishes a 4 watt output. Ideally suited for auditorium, dance hall, or theater in connection with phonograph pickup or radio tuner. Excellent 3-B-4 power supply and amplifier for conversion of battery sets. Requires one 225, two 245, and one 280. Uses 2500 ohm speaker.

No. E8707. Less tubes.

YOUR FEATURE PRICE

\$7⁴⁵

RCA VICTOR 250 AMPLIFIER



Designed by R.C.A. engineers. Output is tremendous. Undistorted delivery for several dynamic speakers.

Supplies field of 110 v. D.C. at 110 volts. Output transformer for 1,000 ohm field resistance. Undistorted 5 watt output. 110 v. 60 cycle A.C.

No. E8706.

Less Tubes.

YOUR SPECIAL PRICE

\$11⁴⁵

PHONO-MOTORS-PICKUPS AND ACCESSORIES

NEW WEBSTER PICKUPS FOR 78 R.P.M. AND NEW 33 1/3 R.P.M. RECORDS

A new, modern pick-up by Webster, constructed to meet the popular demand created by the advent of the new "Long Playing" records. Attachment of an ingenious counter-balance permits the pick-up to reproduce either the older type records or the latest long playing recordings with equal tone fidelity and brilliance. Enjoy rich, smooth, full tones, covering the entire range with this up-to-date, highly efficient instrument.



MODEL 15 A-2 WITH VOLUME CONTROL

New Webster pick-up complete with volume control, 17,000 ohms at 1,000 cycles, .5 V. output, Less counterbalance. Shpg. wt., 2 lbs. No. E772. List Price, \$11.00. **\$5.15** YOUR PRICE

MODEL 17 A HIGH OUTPUT MODEL

A special high output model for use with Receivers which have a low gain in their audio amplifier. Average output is 4 volts giving a nice volume without booster stage of amplification. Shpg. wt., 2 lbs. No. E771B. List Price, \$15.00. **\$8.82** YOUR PRICE

MODEL 15 A-3 LESS VOLUME CONTROL

The new Webster pick-up as described, without volume control. For use with 33 1/3 R.P.M. records, attach equalizer balance listed below, 17,000 ohms at 1,000 cycles, .5 V. output. Shpg. wt., 2 lbs. No. E720. List Price, \$10.00. **\$4.65** YOUR PRICE

LOW IMPEDANCE MODEL 15 A-3

Special 200 ohm, low impedance model pick-up. Otherwise as described above. Wt., 2 lbs. No. E720. List Price, \$11.00. **\$5.75** YOUR PRICE

WEBSTER COUNTER BALANCE

The new, ingeniously devised Webster counterbalance. Readily attached to any Webster flat type pick-up to obtain the required needle weight of 3 ounces for the new "Long Playing" (33 1/3 R.P.M.) records. It must be remembered, however, that the new records also require motor which runs at speed of 33 1/3 R. P. M. quality motors listed on this page. Shpg. wt., 1 lb. No. E770E. List Price, \$2.00. **\$1.08** YOUR PRICE



DIEHL "ARISTOCRAT" 2 SPEED PHONOGRAPH MOTOR

Latest development in phonograph motors for new long playing and standard records. The product of a famous concern associated with the Singer Sewing Machine Company. Combines small size and lightness of weight with a power output in excess of all normal requirements. Uniform speed—silent operation. Easily installed. Consumption 18 watts.



FINEST 2 SPEED MOTOR MADE FOR 33 1/3 AND 78 R. P. M. RECORDS

Attractively finished in durable black lacquer, with all steel parts heavily nickel-plated, and fittings finished in statuary bronze. Substantial in design and construction, insuring trouble-free operation for a long period of time with only occasional lubrication required.

COMPLETE WITH MOULDED 12 IN. TURNTABLE AUTOMATIC STOP-SPEED REGULATOR

Turntable is of exceptional mechanical strength, covered with heavy weight brown felt. Precision of construction assures the smooth, even rotation essential for accurate reproduction. For 60 cycle A.C. operation. Shpg. wt., 5 lbs.

No. E8138. List Price, \$25.00. **\$12.45** YOUR PRICE

SINGLE SPEED MOTORS

A compact, powerful heavy duty induction motor, reflecting the precision of construction and smoothness of operation of Diehl products. No electrical disturbances possible. Full speed attained instantly without manual assistance. Complete with automatic stop and 12 inch moulded bakelite turntable. Shpg. wt., 3 1/2 lbs. No. E8139. For 60 cycle, 110 volt A.C. operation. List Price, \$20.00. **\$8.45** YOUR PRICE

Diehl Phono Motors are available in 160 and 220 volts and 25, 40 and 50 cycle, also 110 volts direct current. Write, giving specifications, for prompt quotations. Allied can serve you promptly and economically.

NEW WEBSTER 10-B PICKUP

New design—new principle—sensitivity plus. Arranged to permit equally good reproduction of both the older and new "Long Playing" records. By turning a knob, the pick-up is adjusted for either the 3 ounce needle weight required for new 33 1/3 R.P.M. records or 5 ounce needle weight necessary for older 78 R.P.M. records. Impedance—28,000 ohms at 1,000 cycles. Shpg. wt., 3 lbs. No. E7707. 10 B pick-up with built-in, adjustable balance. **\$7.94** YOUR PRICE



No. E7708. 10 B, Low Impedance Model. Special 200 ohm, built-in, adjustable balance. Shpg. wt., 3 lbs. List Price, \$15.00. **\$8.82** YOUR PRICE

PROFESSIONAL 16" PICKUP

This model provides a tone arm of proper length to play records of 16 inch diameter of older type as well as the new "Long Playing" records. Shpg. wt., 4 lbs. No. E7709. List Price, \$20.00. **\$11.76** YOUR PRICE

No. E7710. 200 ohm low impedance model. List Price, \$22.50. **\$13.33** YOUR PRICE

PHONOGRAPH PICKUP TRANSFORMER

Designed for coupling low impedance phonograph pick-up to grid of amplifier. Turn ratio 1 to 30. Black enameled case completely shields windings and core. Also is suitable for 200 ohm line to tube service. No. E4399. **\$1.65** YOUR PRICE



AUDAK DUO-DISC 33 1/3-78 R. P. M.

Timely, Convenient. The new Audak Duo-Disc permits reproduction of both the new "Long Playing" records as well as the older 78 R.P.M. records on any machine capable of properly playing 78 R.P.M. records.



CONVERTS ANY PHONO-MOTOR TO A 2 SPEED MOTOR

The mere turn of a button permits reproduction of new 33 1/3 R.P.M. records on any phono-motor. Turn back at will to regular 78 R.P.M. Only one model for all machines—spring or electric. Can not jam. Easily installed. No. E1100. List Price, \$7.50. **\$4.41** YOUR PRICE

New Audak No. 33 Poly-chron Pickup For 33 1/3 & 78 R. P. M. Records

Ultra-modern-amazing sensitivity. The new long-playing records cannot be played with the ordinary pick-up without injury to the recorded grooves. The special Audak Poly-Chron reproduces the new 33 1/3 R.P.M. records perfectly, and functions equally well with the older type (78 R.P.M.) records. The last word in pick-up performance. Shpg. wt., 3 lbs.



Music Master No. 433 For 33 1/3 and 78 R. P. M. Records

Fine performance—Good quality—Low Price. Adaptable for use with both the new long-playing and older type records. Reflects Audak's high workmanship and material standards. Shpg. wt., 3 lbs. No. E1102. List Price, \$12.00. **\$7.35** YOUR PRICE

FAMOUS HAMMOND PHONOGRAPH MOTORS



SYNCHRONOUS—78 R. P. M.
This synchronous motor, for use with 78 R.P.M. records, requires only 2 inch circular opening and 3 inches below top of mounting board. A smashing value. Shpg. wt., 10 lbs. No. E9028. List Price, \$25.00. **\$7.95** YOUR NET PRICE

SHURE MICROPHONES

MODEL 22 N—2 BUTTON

Large size, high quality, 2-button microphone for public address systems and amateur broadcasting. New, glazed carbon button discs, adjustable diaphragm. Modernistic design. Operates best at 8 to 8 M.A. per button. Total internal resistance 400 ohms per button. Over all diameter: 3 3/4". Shpg. wt., 4 lbs. No. E7000. List Price, \$25.00. **\$14.70** YOUR PRICE



Model 5N-2 Button Microphone

An amazing value in a 2-button microphone. Especially recommended for public address systems in which price is the important factor. Permits clear, undistorted reproduction of the voice. Operates best at 6 to 8 M.A. per button. Internal resistance 200 ohms per button. Overall diameter 3 3/4". Shpg. wt., 4 lbs. No. E7001. List Price, \$25.00. **\$5.88** YOUR PRICE



BATTERY OPERATED P. A. AMPLIFIERS AND TRUCK SOUND SYSTEMS

DIRECT BATTERY OPERATION

At last! Mobile high level output amplifiers utilizing for the first time the new full class "B" amplification for operation. ALLIED here offers a complete line of portable battery operated amplifiers, that are not merely unmatched units, but practical, workable, easily installed and economical sound equipment systems.

POWER AND ECONOMY

The equipment listed below is conservatively rated and will deliver the full rated capacity with minimum current drain. No longer any need for expensive converters or generators, nor any dependence on wired electrical current.



New Class "B" 10 Watt Battery Operated Amplifier



A new full class "B" amplifier especially developed for automobile installation. Filament supply is obtained from either car or external battery, plate supply from ordinary "B" batteries. 300 volts being required, tapped at 180 volts with a "C" bias of 27 1/2 volts. Capable of handling two Dynamic speakers of high volume level and up to 5 at lower volume levels. Measures 6 1/2 x 8 x 10 in. Utilizes 4 112A tubes.

PHONO AND MIKE INPUT

Has phono and mike input. 10 watt power output. 6 to 10 ohm impedance.

No. E8982.

Less Tubes.

YOUR NET PRICE.....

\$16⁷⁵

2 BUTTON MIKE

A scientifically damped 2 button Universal Model X microphone with a frequency range from 100 to 4000 cycles. 200 ohms per button. Complete with stand, 14 in. high, and springs.

No. E8984.

YOUR PRICE.....

Stand only, with springs.....

No. E8983.

YOUR PRICE.....

\$8³³

\$2⁴⁵



COMPLETE BATTERY OPERATED TRUCK PUBLIC ADDRESS SYSTEM



A complete installation including phonograph turntable for reproducing long playing and standard records, with microphone and amplifier for announcement and speech. The ideal system for addressing outdoor crowds from automobiles. It is the only complete powerful battery operated outfit ever offered at such a price.

CLASS "B" AMPLIFICATION 20 WATT OUT PUT

Conservatively rated at 20 watt output: the new full class "B" amplifier provides for less power consumption than the conventional or class "A" amplifier and a substantially greater output. The 20 watt output can drive to full capacity two powerful dynamic speakers at great volume or up to 30 magnetic speakers.

USES STORAGE AND "B" BATTERIES ELIMINATES COSTLY CONVERTERS

Uses 300 volts of Heavy Duty "B" batteries tapped at 180 volts, which are housed in attractive steel cabinet. 17x17x27 in. high, and a 6 volt "A" battery. See description below.

No. E9020.

Complete system as illustrated. Ready to install. Includes a 20 watt full class "B" amplifier in steel cabinet, a 2 speed hand wound motor and turntable capable of playing the new long playing and conventional records (33 1/3 r.p.m. and 78 r.p.m.). Pickup control panel has complete built-in microphone and phono control unit—2 powerful 14 in. Oxford Dynamic Speakers with 8 volt field for battery excitation and a 2 button microphone and stand. Less tubes and batteries.

List. \$275.00

YOUR PRICE.....

SYSTEM AS ILLUSTRATED

\$139⁵⁰

MICROPHONE AND PHONO INPUT CONTROL UNIT



Provides adjustable mixing and switching facilities for all Public Address Systems, either mobile or stationary. Output impedance can be set into standard high impedance amplifier. Measures 5 1/2 x 5 1/2 x 6 in. Requires one 4 1/2 v. "C" battery. Milliammeter for direct reading of microphone current.

No. E8994.

Complete with battery.

YOUR PRICE.....

\$11²⁵

PORTABLE PUBLIC ADDRESS SELF BAFFLED DYNAMIC SPEAKERS

A complete line of powerful 14 in. Oxford Dynamic Speakers for portable and semi-portable sound systems. They are offered for use with 6 volt field for storage battery excitation, for stand truck and mobile installation. Also for permanent or semi-portable use in various field ohmages for D.C. excitation from 110 D.C. line, or where field current is provided by another. Also furnished in 110 volt A.C. model where wired A.C. current is available. Measures 15x15x11 in. Specify output tubes, so proper speaker input transformer can be supplied.

No. E8567. 6 volt field.

No. E8568. 1000 ohm.

No. E8569. 1500 ohm.

No. E8570. 2500 ohm.

No. E8571. 4000 ohm.

YOUR SPECIAL PRICE.....

List Price. **\$11²⁵**



No. E8572. 110V. A.C. complete with

280 tube

List. \$90.00.

YOUR PRICE.....

\$19⁶⁵

GIANT CLASS "B" 7 TUBE 20 WATT AMPLIFIER FOR BATTERY OPERATION

Stands supreme in its field. Conservatively rated at 20 watts. Requires 1-237 and 6-112A tubes, a 6 volt "A" battery and 300 volts of "B" battery tapped at 180 volts. Measures of 7x9x12 in.



LOW DRAIN

The total "B" battery drain is only 20 mills with no signal, with signal, only 68 mills. Low drain "A" storage battery. Fully supplies the demand for a high level output mobile amplifier where wired current is unobtainable.

MICROPHONE AND PHONO INPUT

Input impedance is provided for a 2 button microphone and any standard phonograph pickup. Microphone and phono control unit as listed at left are recommended for use with this amplifier.

No. E8993. 20 watt Giant Class "B" 7

tube Amplifier less tubes and batteries.

List. \$85.00.

YOUR PRICE.....

\$27²⁵

THEATRE - PUBLIC ADDRESS AND RADIO POWER UNITS - HORNS - DYNAMIC SPEAKERS

OXFORD SUPER-POWER DYNAMIC

A giant in size and power. Oversized to handle the tremendous volume of heavy duty amplifiers. This 14 inch dynamic reproduces faithfully the finest tonal shadings from low bass to high treble. Built to give long dependable service.

For All Sound Systems

The durable construction and the real dynamic performance, volume without distortion, of the Oxford Super-Power Dynamic makes it ideally adaptable for all sound systems. The metallized one-piece cloth diaphragm is puncture resistant and has a controlled edge. Unexcelled to withstand the pressure of heavy duty work. A most dependable unit for any public address system.

For A.C.-D.C. or Battery Operation

ALLIED offers this speaker in all models, to meet every purpose. Alternating current, 110 volt direct current or battery excitation models are listed below. A special effort was made to present a complete listing, so that no particular type of demand should be deprived of the use of this really remarkable reproducer.

6-1000-1500-2500-4000 OHM FIELD

The listing below also offers a wide choice in field resistance to meet any need. All models are furnished with impedance matching transformers to suit output tubes used. In ordering, please specify whether you single or push-pull, giving types of tubes in output stage. ALLIED is anxious to serve you accurately and promptly. Merely mention your requirements. Shpg. wt., 18 lbs. each.

- | | | |
|---|-------------------------|-----------|
| No. E8585, 6 volt field, Battery excitation | } Net Each \$745 | } \$12.95 |
| No. E8584, 1,000 ohm field, 110 V. D.C. | | |
| No. E8583, 1,500 ohm field, 110 V. D.C. | | |
| No. E8582, 2,500 ohm field, 110 V. D.C. | | |
| No. E8581, 4,000 ohm field, 110 V. D.C. | | |
| No. E8587, For 110 A.C., 50-60 cycles, less 280 tube. | | |



14 Inch

RACON POWER UNITS

Racon power units have justly earned an enviable reputation in the public address field. Modern, scientific design and precision of construction are responsible for the ability of these units to handle enormous volume with absolutely faithful reproduction of the original rendition.

Super-Giant Dynamic

The Racon Super-GIANT Dynamic unit for heavy duty operation. Has 15 ohm voice coil impedance and requires 6-8 volt field excitation, with 1 ampere consumption at 6 volts. Particularly adapted for theatre and auditorium use where the finest quality reproduction is required.

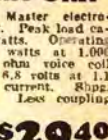


Peak Load 60 Watts

Handles peak load of 60 watts, or 20 watts continuously at 1,000 cycles. Less coupling transformer. Shpg. wt., 27 lbs.
No. E829, \$375.00.
YOUR PRICE **\$4410**

Master Dynamic Unit

The new Master electro-dynamic unit. Peak load capacity 60 watts. Operating capacity 30 watts at 1,000 cycles. 15 ohm voice coil impedance. 6.8 volts at 1.1 amp. field current. Shpg. wt., 18 lbs. Less coupling transformer.



No. E8304, List \$350.00.
YOUR PRICE **\$2940**

Junior Dynamic Unit

Handles 6 watts continuously with peak load capacity of 20 watts at 1,000 cycles. Impedance, 8-8 volt field excitation, 1.1 amp. Supplied less coupling transformer. Shpg. wt., 14 lbs.
No. E8301, \$2050.
YOUR PRICE **\$2050**



Baby Dynamic Unit

Handles 5 watts continuously with peak load capacity of 18 watts. 15 ohm voice coil impedance. 6 volt field excitation, 1 1/4 ampere consumption. Less coupling transformer. Shpg. wt., 9 lbs.



No. E8302, List \$25.00.
YOUR PRICE **\$1470**

Power Magnetic Unit

Primarily for public address use. Provides continuous operating capacity of 2 watts impedance 2,000 ohms. Shpg. wt., 7 lbs.



No. E8303, List \$30.00.
YOUR PRICE **\$1470**

Coupling Transformers

Racon coupling transformers for Racon power units described above. Listed in two heavy-duty types and a general purpose type.

- | | |
|--|--|
| HEAVY DUTY | |
| No. E8307, 4,900 ohm primary impedance at 1,000 cycles. | |
| No. E8308, 500 ohm primary impedance at 1,000 cycles. | |
| List, \$20.00. | |
| NET EACH \$11.76 | |
| GENERAL PURPOSE | |
| No. E8309, General purpose transformer, 1P 245 or 4,000 ohms primary impedance. List \$7.50. | |
| NET \$4.41 | |

MOUNTING CASE FOR MOBILE INSTALLATIONS

Leatherette-covered case for mounting Oxford Super-Dynamic or speakers similar in size. Very convenient for mobile public address systems. Especially suitable for temporary outdoor systems, truck installations and theatre systems. Makes it unnecessary to move open speaker. Case is ruggedly constructed, but light in weight. Dimensions: 15 1/2 in. high, 14 in. wide, 11 in. deep. Attractively screened grille. Shpg. wt., 11 lbs.

No. E859C, YOUR PRICE **\$385**
Case only



NEW RACON TRUMPETS

Manufactured and hardened fabric construction. Will withstand the rigors of all climates, seasons, and temperature variations. Light-weight, acoustically perfect. Equipped with standard threaded mounting bolts.



3 1/2 FOOT TRUMPETS

Bell 22 inches round. No. E8684, REGULAR. Equipped with metal beaded edge, metal ferrule and suspension ring. Adapted for 3/8-18 in. threaded unit. For outdoor use only. Shpg. wt., 17 lbs.

List Price, \$25.00.
YOUR PRICE **\$11.75**

No. E8665, DE LUXE. Equipped as above. For indoor use or temporary outdoor use. Shpg. wt., 17 lbs.

List Price, \$25.00.
YOUR PRICE **\$14.70**

No. E8666, STORMPROOF. Same equipment. For outdoor use in all climates and weathers. Shpg. wt., 20 lbs.

List Price, \$40.00.
YOUR PRICE **\$23.42**

6 FOOT TRUMPETS

Bell 30 inches round. Equipped with metal beaded edge, cast aluminum throat, and 4 inch suspension ring. No. E8667, REGULAR. For indoor use only in all climates. Shpg. wt., 31 lbs.

List Price, \$50.00.
YOUR PRICE **\$29.40**

No. E8668, STORMPROOF. For outdoor use. Single unit horn. Shpg. wt., 35 lbs.

List Price, \$65.00.
YOUR PRICE **\$38.22**

RACON TRIPLE CONNECTOR

A novel combination for using three horns with one unit. Distributes the output of the unit equally through each, without choking or reducing its efficiency. Dispersion angle 105 degrees. Shpg. wt., 6 lbs.



No. E8306, List Price, \$20.00.
YOUR PRICE **\$11.76**

No. E8305, SINGLE ADAPTER. Permits use of all Racon power units with any Racon horn.

YOUR PRICE **85c**

DYNAMIC UNIT FIELD EXCITER

Racon field exciter. Supplies proper field excitation for Racon Electrodynamic Horn Units, from 110 volt A.C. Humless. Does not overheat. Shpg. wt., 12 lbs.

No. E8660, ONE UNIT. Provides proper field excitation for one Racon unit.

List, \$20.00.
YOUR PRICE **\$11.76**

No. E8661, TWO UNIT. Provides proper field excitation for two unit operation.

List, \$35.00.
YOUR PRICE **\$20.50**

No. E8662, FOUR UNIT. Provides proper field excitation for four unit operation.

List, \$60.00.
YOUR PRICE **\$35.25**



P.A. HORNS—BAFFLES—SPEAKERS—UNITS

Racon Dynamic Baffles

The baffle horn is equivalent to a straight baffle of twice the size. As a horn it loads the diaphragm of the unit with an air column preventing blasting, and retains the high tones so that they can be reproduced at the same time as the low. Converts the dynamic to a semi-directional speaker, greatly increasing the output for theatre, auditorium or hall room broadcast. For dynamic diaphragms of 3 in. and up, supplied with the following size bells:

No.	Bell Size Inches	Depth Inches	List Price	NET. EACH
E8675	18x30	10	\$12.00	\$ 7.64
E8676	27x27	24	30.00	23.52
E8677	38x36	24	40.00	33.52
E8678	41x41	14	40.00	23.52
E8679	44x44	24	45.00	26.46



ELECTRIC MOTOR POWER MAGNETIC CHASSIS

Great power and volume are harmoniously combined in this splendid reproducer. The entire musical scale is naturally and fully reproduced with clarity and precision, from minimum volume to full resonant tones of maximum output. No "tinny" sound, no "rain barrel" effect. Compatible only with the finest magnetic speakers. The electric speaker motor affords wonderful service and is easy to connect.

TAPPED IMPEDANCE

Speaker impedance may be carefully matched to the radio receiver with which it is used. Fitted with three tapped windings which permit the matching without recourse to a speaker output transformer. The magnet oversized for durability and power of performance. The large diaphragm responds readily to vibrations impressed upon it by the magnet. Large 10% in. cone.

E8082. Retail Value, \$16.00. **\$6.45**

CABINET MODEL MAGNETIC SPEAKER

Life-like reproduction, natural mellow tone, and extreme sensitivity of the magnetic unit, make this cabinet speaker an incomparable value at our low quotation. The brilliant finish is of pleasing proportion and very attractively designed.

Attractive Cabinet

The 9 in. chassis is built, and reproduces the entire audible scale with true and pleasing intonation. Cabinet dimensions: 11 in. wide, 12 1/2 in. high, 8 1/2 in. deep. A wonderful speaker at an unusual price.

No. E8811. **\$3.45**

STEWART-WARNER DYNAMIC ELECTRIC SPEAKER

Through a most fortunate purchase, we are in the position to offer this famous Stewart-Warner magnetic speaker at a "give-away" price. A new discovery in design gives this speaker clear dynamic tone—volume and power. Do not judge its quality by our low quotation. It is sturdy and compactly built, cardboard coated against rust and you will be surprised at its performance. A real bargain.

No. E8810. **\$1.95**

YOUR LOW PRICE.

WRIGHT DE COSTER DYNAMIC HORNS



A scientifically corrected dynamic cone speaker horn for broadcast purpose. Used where distance is required. Weather proof chassis. Non-resonant. Black weatherproof finish. Horn No. 5—Length 48 in., bell 23 in. x 22 in. Shpg. wt. 7 1/2 lbs. No. E9000. List, \$30.00. Horn only. Horn No. 9, with flare on both sides instead of bottom. Not as directional as No. 5. Length 48 in., bell 30 in. x 2 1/4 in. Shpg. wt. 7 1/2 lbs. No. E9001. List, \$30.00. **\$17.94**

WRIGHT DE COSTER DYNAMIC SPEAKERS

For the home or small hall. Equal in every respect except volume to large theatre model. Extreme sensitivity and tremendous power without distortion. Size: 12 in. wide, 9 1/2 in. deep, 12 1/2 in. high. Cone 10 in. Requires 11 in. baffle hole. Equipped with output transformers. Please mention definitely the impedance and type of power tubes employed in amplifier or receiver for which speaker is being ordered. No. E9002, 217 Jr. 115 V. A.C. 25-50-60 cycles. List, \$20.00. **\$29.40**

NET No. E9003, 215 Jr. 110 V. D.C., 6 watts, 2500 ohms. List, \$34.00. **\$19.99**

WRIGHT DE COSTER VEHICLE SPEAKERS

The Wright-DeCoster FANT VEHICLE Speaker for automobile sets has the same brilliant tone quality and useful reproduction characteristic of all Wright-DeCoster products. 9 1/2 in. high, 9 1/2 in. wide, 5 in. deep. Shpg. wt., 10 lbs. If required for different output tubes, specify single or push-pull and kind of tubes. No. E9004, Single, 3R. **\$6.76**

No. E9005, Push-Pull, 3R. List, \$11.50. **YOUR NET PRICE**

WRIGHT DE COSTER No. 255 SPEAKER

Do not judge the quality of this little "4 1/2" cone unit by its size. It will surprise you to find that a speaker so small is capable of reproducing with such pleasing tone and splendid fidelity. Outside dia. of cone bracket 6 in. Depth 3 1/2 in. In ordering please specify tube resistance and type of output tube or tubes used. No. E9006. D.C. 2500 ohms Chassis. List, \$5.00. **\$2.88**

NET No. E9007. Auto Speaker in metal case. List, \$8.50. **\$3.83**

Dynamic Trumpet Speaker

For theatres, ball-rooms and auditoriums. Circular bell. Convenient base for speaker mounting. Natural realistic tone quality combined with adaptability to a wide range of uses. One piece construction.

Great objective power. No. E8302. Length, 49 1/2 in. Bell 3 1/4 in. List, \$35.00. **\$17.50**

YOUR PRICE No. E8303. Length 53 in. Bell 3 1/2 in. List, \$42.00. **\$21.00**

RCA Photophone Auditorium Speaker

Superb for sound system and for use with all class "A" and "B" amplifiers. Has 12 in. cone. Detachable iron frame mounting. Field resistance is 1000 ohms, requiring from 80 to 130 volts D.C. to actuate it. From 80 to 130 Mils. Voice coil impedance is 8 ohms at 1000 cycles, with 80 watts input.



Peak Load 15 Watts

Conservatively rated for continuous use at 4 watts, but can safely handle peak load up to 15 watts. It is advisable to employ at least two of these speakers with amplifier system of 12 to 16 watts, and at least four with 20 to 25 watt systems, for life-long service.

No. E8709. Less Baffle. **\$6.95**

YOUR PRICE No. E8708. Complete with Baffle Box **\$8.95**

Public Address Equipment

We are in a position to supply practically all types of standard public address horns, units and other equipment. If the item you need is not listed here, please write to us for quotations. ALLIED is anxious to serve you.

OXFORD GIANT



for a large theatre. For outdoor work with large baffle. Will cover an enormous area in every direction. Baffle opening, 18 in. Wt., 75 lbs. Offered at a startlingly reduced price. No. E8586. List, \$100.00. **\$35.45**

AUDITORIUM DYNAMIC

For the most powerful Amplifier. Designed to stand tremendous power for theatre or auditorium reproduction. Can be used with large baffles for outdoor work, or with baffle horns for semi-directional theatre sound production.

A.C. Operation

A detached power unit is provided which requires two E280 tubes. The chassis is of heavy steel, reinforced. This super speaker will supply clear, husky reproduction of music or voice with sufficient volume for a large theatre. For outdoor work with large baffle. Will cover an enormous area in every direction. Baffle opening, 18 in. Wt., 75 lbs. Offered at a startlingly reduced price. No. E8586. List, \$100.00. **\$35.45**

YOUR PRICE. Less Tubes.

BEST THEATRE DYNAMIC

Tremendous volume without distortion, 4,000 ohm impedance. This speaker has an excellent frequency response from the lowest volume to the extreme power of large amplifiers. Moving system is specially damped to permit reproduction with unusual clearness and fidelity.

20 Watt Field Power

The 20 watt field power is supplied by two 281 rectifier tubes. Due to the high strain flux density (avz. 40,000 lines per sq. cm.) and the specially constructed voice coil, the speaker efficiency is very high. Supplied with impedance coupling transformer in base. Dimensions: 13 1/2 in. wide, 13 1/2 in. high, 10 1/4 in. deep. Diameter of baffle opening 12 in. 110 volt A.C. 60 cycles, shpg. wt., 63 lbs. No. E8085. 3,000 ohm, less tubes. List, \$95.00. **\$44.10**

YOUR PRICE

DYNAMIC SPEAKERS-AUTO SPEAKERS-UNITS

NEW JENSEN DYNAMIC SPEAKERS

The new Jensen speakers are outstanding for superb tone quality, sensitivity and volume. The 110 v. D.C. speakers listed on this page are all equipped with a 2,500 ohm field coil and will meet the average demand. If the speaker required, however, is not listed, write for quotations, specifying field and voice coil ohmage, diameter of cone and number and type of output tubes employed. NO EXTRA COST. Merely state your requirements.

NEW MODEL K-1

6 In. Cone



Jensen super-quality is built into this convenient 6" cone dynamic speaker. Like all Jensen speakers it is equipped with the durable "Tym-Flex" cone. A powerful speaker, ruggedly constructed, compactly built.

No. E8202. For Single or P.P. 171A-245-250's.
No. E8203. For Single 247.
No. E8204. For P.P. 247. **\$441**
YOUR PRICE

Jensen D-9 Concert

12 Inch Cone

The new Model D-9 is designed for operation with all types of amplifier systems and particularly for latest model receivers. Ideal for new set builders and for replacement purposes. In the 12 inch cone class, and equipped with mounting support and 30 inch cords. All models have 2,500 ohm field coil.



No. E8223. Single or P.P. 171-245-250.
No. E8224. For Single 247. **\$735**
No. E8225. For P.P. 247.
List, \$12.50. NET, EACH.

MODEL D-9 A.C.

For radio receivers, amplifiers or sound systems. Input transformer for single or push-pull 171, 245, or 250 tubes. 12 in. cone. 110 v. C. 80 c.
No. E8221. List, \$20.00. **\$1176**
NET

JENSEN SPEAKERS FOR THEATRE AND P. A.

The new Jensen Auditorium Electro-Dynamic Speakers. Capable of handling extreme power inputs, reproducing entire tone range with amazing fidelity. Equipped with Jensen "Tym-Flex" cones. For use with all class "A" and "B" amplifiers.

MODEL M-20 AUDITORIUM

14 inch. Widely used for theatre, public address and outdoor announcing.
No. E8236. For 110 v. D.C. Shpg. wt., 45 lbs.
List, \$45.00. **\$2646**
YOUR PRICE
No. E8237. 110 v. A.C. For 171-245-250 tubes. Including 82 Rectifier Tube.
List, \$67.50. **\$3969**
NET

AUDITORIUM JUNIOR

12 Inch

One of the finest speakers in its class for theatre and public address work. For 110 v. D.C. and A.C. operation.
No. E8238. 110 v. D.C. For P.P. 245 or 250 tubes. **\$13.23**
No. E8239. 110 v. A.C. For P.P. 245 or 250 tubes. **\$19.11**
List, \$32.50. NET. **\$19.11**
(Can be supplied for other tubes.)

GERMAN 3-COIL UNIT

The advanced mechanical action of the German laboratory are reflected in this remarkably sensitive unit. Finest materials used in construction.

Powerful
Famous three-coil construction and extra large diaphragm produces powerful action and vivid tone.

No. E5400. SPECIAL LOW PRICE. **38c**

NEW UTAH A. C. DYNAMIC SPEAKERS

These Utah new design speakers have a v.e. braced even the height of perfection previously attained by Utah peak standards. The finely developed field design results in tone quality and volume as difficult to equal.



The new Utah A.C. speaker operates with the efficient 280 rectifier. Supplied with 4,000 ohm transformer for single or push-pull output. 110 volts A.C. 80 cycles.

MODEL 10-A A.C.
No. E8952. 10 in. diam. for single or P.P. 171-245-250. Less **\$10.29**
tube. List, \$17.50. NET.

MODEL 8-A A.C.
No. E8950. 8 in. diam. For 171-245 or 250. single or push-pull. Shpg. wt., 13 lbs. Less tube. **\$8.82**
List, \$15.00. NET.

(Available for any output—state tubes—single or push-pull.)

NEW UTAH BIG CHIEF MAGNETIC



A highly developed magnetic console unit for use in battery operated sets in conjunction with the new air cell battery and for multiple speaker installations. Musical scale reproduced with true magnetic tone and unusual clarity.

No. E8954. List, \$6.00. **\$353**
YOUR PRICE

UTAH UNITS

Utah Units are highly constructed of the best quality materials. They offer faithful reproduction over a wide range. Popular and inexpensive. 3 in. diam., 1/2 in. thread.

TRIP OD UNIT
No. E7432. Extreme power without distortion. List, \$5.00. **\$294**
NET

NEW BIG CHIEF
Powerful clear reproduction. Precision constructed for true tone values. No. E7431. List, \$4.25. **\$249**
NET

NATHANIEL BALDWIN CONCERT UNIT



The Baldwin Concert Unit is used extensively and with great success for public address work. It has a great tonal capacity and is able to handle vast volume input without distortion. Offered now at an unbeatable price.

Shielded Type
The Concert Unit shielded, capable of tremendous undistorted tone.
No. E1418. List, \$10.00. **\$135**
YOUR PRICE

Unshielded
Same as above, unshielded. No. E1413. List, \$7.50. **95c**
YOUR PRICE

K-1 AUTO SPEAKER

Jensen K-1 speaker as described above with 6 volt field for automobile sets. Enclosed in rugged, well-constructed case. Very compact to facilitate installation.



No. E8205. For Single 38.
No. E8206. For P.P. 38. **\$588**
List, \$10.00.
YOUR PRICE

Jensen D-16 8 INCH CONE

One of the finest loud speakers in the eight inch class. Highly suitable for current models of multi-tube superheterodynes with push-pull audio stages. All models have 2,500 ohm field coil. Famous Tym-Flex cone.



No. E8207. Single or P.P. 245 or 250.
No. E8208. For Single 247.
No. E8209. For P.P. 247. **\$529**
List, \$9.00.
YOUR PRICE, EACH

New D-16 Auto Speaker

The D-16 speaker as described above with 6 volt field for automobile sets. Enclosed in strong case, compactly built for easy installation. Here is realistic, vibrant, true tone.

No. E8216. For Single 38.
No. E8217. For P.P. 38. **\$706**
List, \$12.00.
YOUR PRICE

Jensen Permanent Magnet Dynamic

The permanent magnet which supplies the energy in this speaker is an exclusive development of Jensen engineers. Gives battery sets same tone quality and undistorted volume as A.C. sets. No. E8218. Single or P.P. 171-245-250.

No. E8219. Single or P.P. 232. List, \$15.00. **\$882**
YOUR PRICE

MICROPHONES and ACCESSORIES

UNIVERSAL MICROPHONES

Adhering to its progressive policy, Universal offers for 1933 an enlarged and improved line of microphones and accessories. The very latest improvements in design, finish and quality are incorporated in Universal products, which are released for distribution only after being tested under the most rigid standards. Here is superior equipment to meet the exacting demands of the radio world.

MODEL "X" 2-BUTTON

A sensational microphone at a sensational price. All essential features necessary to insure superior performance and durability are incorporated in this popular-priced model. Faithful tone. Pure gold contact. Duralumin diaphragm. 200 ohms per button. Scientifically Damped. Frequency range from 100 to 4,000 cycles. Ruggedly built and finished in non-corrosive polished nickel plate. Can be mounted in any Universal mounting. Diameter, 2 1/4". Over all thickness, 1".

No. E7400. List Price, \$7.00. **YOUR PRICE, \$5.88**

Model BB—2-Button

Nearly twice as heavy as any other microphone in its class. Built to half-line precision. Constructed especially for voice pickup, public address work and for amateur broadcasters, excitemeters, halls, ball rooms, speaker wagons, etc. Beautifully finished in highly polished chrome plate. Extra heavy 24 Kt. pure gold spot centers. Duralumin Diaphragm. Frequency range: 10 to 4,000 cycles, 200 ohms per button. 3 in. in diameter. In. thick.

No. E7411. List Price, \$25.00. **YOUR PRICE, \$14.50**

Model KK—2-Button

Substantial, solid, double button broadcast microphone. Frequency range 50 to 5,000 cycles. 200 ohms resistance per button. Constructed of finest materials, finished in 24 Kt. polished gold, 1/2" in diameter, 1 1/2" thick.

No. E7413. List Price, \$50.00. **YOUR PRICE, \$29.40**

Torpedo Type

New type of microphone, fully protected, extremely compact, quickly demounted. Connection is made to three spring jacks into which telephone pin terminals are plugged. Can not be removed accidentally. Supplied in standard models "BB" and "KK".

No. E7401. Torpedo "BB"—2 Button. List Price, \$30.00. **YOUR PRICE, \$17.64**
No. E7402. Torpedo "KK"—2 Button. List Price, \$55.00. **YOUR PRICE, \$32.34**

BULLET TYPE

Especially recommended for use in public address where elegance of appearance, beauty of design, and true reproduction of voice, and speed are demanded. Consists of a tube with a centre partition, providing space for a standard 1 1/2 volt No. 6 dry cell battery. Adjustment screws microphone adjustment for varying acoustic conditions. Rubber cushions and spring tension vials. Finished in highly polished aluminum and chrome plate.

No. E7406. Model BB. List Price, \$50.00. **YOUR PRICE, \$29.40**
No. E7407. Model KK. List Price, \$75.00. **YOUR PRICE, \$44.10**

MICROPHONE SPRINGS

Nickle tempered steel—1 inch long (unextended). No. E7421. Set of eight springs. **YOUR PRICE, 47c**

Model "Y" Single Button

A midget, single button microphone, very light, very small and extremely sensitive. Recommended for use where high sensitivity and extreme compactness are necessary. When placed in any hidden position, will pick up sounds and conversation. Diaphragm exposed. Should be placed in protected locations, behind screen or grill work. 200 ohms with pure gold spot center diaphragm.

No. E7403. List Price, \$2.00. **YOUR PRICE, \$1.18**

MODEL "W"

Smallest completely protected andorkan single-button microphone manufactured. High sensitivity, light weight and compactness adapt this instrument for many special uses. A favorite for use in hidden positions as a telephone, or on the coat label. 200 ohms. 1 3/4" in diameter, 3/8" thick. Pure gold spot center diaphragm.

No. E7404. List Price, \$3.00. **YOUR PRICE, \$1.76**

Model "A"—Single Button

New heavy duty design. Solid 24 Kt. gold faced button. Extremely thin, light weight, gold-faced diaphragm. Frequency range 100 to 3,000 cycles. 200 ohm resistance. Beautifully plated in polished chrome. 3 in. in diameter, 1 1/4 in. thick.

No. E7410. List Price, \$15.00. **YOUR PRICE, \$8.82**

HANDI-MIKE

A hand microphone, intended for voice only. Rugged construction, maximum volume with clear and clean-cut voice reproduction. Length 6 in., head 2 1/2 in. Requires 6 volt battery and 8 to 10 mils. current.

No. E7414. Single button with thumb switch and 15 ft. cord. List Price, \$10.00. **YOUR PRICE, \$5.88**

NEW UNIVERSAL DESK STAND

Fits Universal Mike Models X, BB, A, and KK. Overall with convenient suspension hook at top. Microphone ring 4 1/2" in diameter complete with four eyes. Beautifully chromium plated with rubber padded base. Complete with set of springs.

No. E7418. List Price, \$3.50. **YOUR PRICE, \$2.06**

NEW ADJUSTABLE FLOOR and BANQUET STAND

Something strikingly new! A combination floor and banquet stand all in one. Overall height, set up 62". Banquet height 27 1/2". Three collapsible telescopic tubes adjustable by convenient thumb screw. Microphone ring 4 1/2" diameter with four eyes. Base 7 1/2" diameter. Handsome chromium plated. For Universal microphones models X, BB, KK, and A, as well as many other standard mikes. Complete with eight springs.

No. E8920. List Price, \$10.00. **YOUR PRICE, \$5.88**

Gem Midget Mike

Reproduce your own voice over your radio by means of the Gem Midget Hand Mike. Simply press button and do the broadcasting yourself. Program returns when button is released.

Easily attached to any radio in two minutes—no tools are necessary. Complete instructions. Case of highly metal, beautifully designed and chromium plated. Supplied with 25 ft. cord. No. E3222. List Price, \$7.50. **YOUR PRICE, \$2.45**



Universal Baby Mike

There's a world of fun in this miniature microphone which enables you to reproduce your own voice over your radio. The 25 foot extension cord permits concealment in another room and by pressing a button you can cut in on program with jokes and comments. Offers endless entertainment and amusement in the home. A real microphone with ohms resistance and circuit switch. 3/4 inches high, beautifully finished.

No. E7422. List Price, \$7.50. **YOUR PRICE, \$4.41**



UNIVERSAL "QRQ"

Single button, 200 ohm carbon microphone. For amateurs and experimenters where a single button mike will serve. Gold faced button, 3/4" high, finished in highly polished nickel plate and furnished with 3 ft. phone tip cord. Suspension ring attached. Not a toy, but a real microphone although small in size.

No. E7423. List Price, \$5.00. **YOUR PRICE, \$2.94**



Mike Connectors

Knife blade 3 iron connectors used extensively in microphone circuits, etc. 10 amp., 250 volt type. Adjustable clamps for holding cable firmly. Perfect contact.

No. E7408. 3 prong Socket. NET. **49c**
No. E7409. 3 prong Plug. NET. **38c**



5 Pole Western Electric Cable Connectors

Western Electric five round prong armored connector. For microphone circuits, etc. All brass shell with knurled circular lock-nut assuring perfect contact and permanent connection. A real value.

No. E5394. Value, \$3.50. **YOUR PRICE, \$1.35**



SHIELDED MICROPHONE TRANSFORMERS

No. E4395. Single button. A compact inexpensive coupling transformer. Turns ratio to 64, impedance ratio 1 to 4,000, suitable for single button carbon microphone. Completely shielded.

List Price, \$2.20. **YOUR PRICE, \$1.19**
No. E4396. Two button. For all double button carbon microphones. Turns ratio 1 to 48, impedance ratio 1 to 2,000. Has flat response curve from 30 to 7,000 cycles. List Price, \$3.25. **YOUR PRICE, \$2.03**



THE BEST 1933 RADIO BOOKS SERVICE-REPAIRS-SHORT WAVE-ETC.

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A completely new OFFICIAL RADIO SERVICE MANUAL, containing to a great extent, vital information not to be found in any other book in print today. All new and original material entirely different from the two preceding manuals. In size, shape and general layout, however, the manual will be conveniently the same. Over 700 pages with more than 2000 diagrams, hookups, charts, illustrations and actual photographs of sets.

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Contains only practical information, compiled efficiently for ready reference. Compiled, operating notes and hints by practical service men; long and modern servicing instruments; modern servicing instruments; tube-chart facts; interference elimination; automobile radio installation and service; technical meter data; complete actual pictorial views of hundreds of commercial receivers with additional schematic diagrams, as well as many other subjects of tremendous value. In a flexible loose-leaf binder 9 x 12 inches in size. Shpg. wt., 5 lbs.

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Contains a wealth of material on the building and operation of typical short wave receivers as well as short wave converters. Includes over 160 illustrations and measures 7 1/2 x 10 inches. Shpg. wt. 2 lbs.

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A perpetual guide to resistor and volume control values, kept constantly up-to-date by revised lists four times a year. Shows at a glance the exact value of resistor or volume control for the job in hand so that replacements can be made with accuracy.

Handy Size—Durable

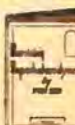
Handy, only 5 x 8 inches. Genuine Dupont Fabrikoid Flexible cover—loose leaf. An important "tool" in the service man's kit. Shpg. wt. 1 lb.

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For every man interested in radio and modern uses of the electronic tube, 3500 helpful definitions of all words and terms used in electronics with 550 illustrations. 300 pages printed on fine grade paper, size 6 x 9 inches. Durable cloth binding.

ing. The only book of its kind. Shpg. wt., 3 lbs.

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The New RIDER'S MANUAL NO. 2 picks up where Volume No. 1 left off. No duplication of material. Contains all the service information necessary for commercial radio receivers. Every page is of value and there are 1,000 valuable pages, 2,000 diagrams and photographic layouts offer service facts which absolutely eliminate guess-work. Size 8 1/2 x 11. Attractively bound: loose-leaf style. Carry for field and an accurate service work. Shpg. wt. 8 lbs.

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No. E3624. YOUR PRICE.....

\$4.50

SHORT WAVE ADAPTERS-KITS-COILS-ACCESSORIES

NEW I.C.A. SUPER SHORT WAVE CONVERTER



Get police calls, amateur, airplane and coast guard wave lengths on your A.C. set with this new I.C.A. SHORT WAVE CONVERTER. Will give excellent results when used with any good standard receiver.

60-200 Meters

An ideal short wave converter for tuning in wave lengths between 60 and 200 meters. Makes use of entire receiver, not to be confused with older types which make use of the audio tubes in the receiver only.

MAKES A SUPERHETERODYNE OUT OF ANY T.R.F. SET

This Converter makes a Superheterodyne receiver out of a T.R.F. set and can be connected to any A.C. radio set, whether T.R.F. or Superheterodyne. For greater volume and selectivity, utilizes one '27 tube which obtains power from radio set through adapters furnished with each unit.

No. E4205. Less tube. **\$4.45**

List Price, \$8.00.

YOUR PRICE.

Pilot Superwasp Kits



BATTERY MODEL K-110

Original Pilot Super Wasp Kit with all fine features of A.C. set, but using 1-222 tube and 3-201A tubes. Requires 8 volts of A.C. current and 135 volts "B". All parts fully prepared, easily assembled and wired. Complete with ten plug-in coils for all wave lengths, from 13 to 500 meters. Front panel 7 1/2 x 18 in. Assembled set 9 1/2 in. deep. Reduced price.

No. E8641. **\$28.67**

Less Tubes.

YOUR PRICE.

A.C. MODEL K-115

The advanced Pilot Super Wasp A.C. model kit. The A.C. model uses 1-224 and 3-227 tubes. Same size and plug-in coils as in battery model. Complete kit ready for assembly.

No. E8640. Less power **\$33.08**

YOUR PRICE.

A,B,C Power Supply

Power packs that will deliver the absolutely constant plate, filament and grid voltages, essential in the operation

of a short wave receiver. In neat steel case, 10 in. long, 7 in. high, 3 1/4 in. wide. Uses 280 tube which fits in can, equipped with removable cover.

No. E5970. K-111. Supplies power for 4-224's or 227's, 4-226's and 2-171's. Max. Plate of 220 V. at 60 M.A. Intermediate V. 180-135-90-45. 5 V. at 1 amp.; 2 1/2 V. at 8 amps. and 1 1/2 V. at 4 amps. Requires 250 tube.

YOUR PRICE. **\$16.02**

No. E5971. K-112. Supplies power for 2-225's, 4 or 7-227's or 227's and 1-280. Similar to K-111, but larger. At 90 mill. plate volts are 300-180-135-90-45. 5 V. at 2 amps.; 2 1/2 V. at 1 1/2 amp. and 2 1/2 V. at 3 1/2 amp. Requires 280 tube.

YOUR PRICE. **\$28.67**

I.C.A. CONQUEROR SHORT WAVE RECEIVER



Supplied with eight coils covering range from 12 to 200 meters. Same type tuning coils as used by practically all steamships in "ship to shore" reception and broadcast.

Power Pack
No. E4220. I. C. A. Power Pack for the "Conqueror." Will also furnish plate and filament current for 2-551, 2-247, 2-224A, and 1-280. Mounted in neat, compact can with removable cover. Requires 1-280 tube.

List Price, \$25.00.
YOUR PRICE. **\$12.25**

Wired Model
No. E8240. I. C. A. "Conqueror," as described above, completely wired and assembled. Less tubes and power pack. With a set of short wave coils covering 12 to 200 meters. Full short wave reception at a new low price.

List Price, \$54.00.
YOUR PRICE. **\$26.95**

Semi-Wired
No. E8241. The I. C. A. "Conqueror," partly wired, but so arranged that it can easily and quickly be assembled by anyone without technical knowledge. Less tubes and power pack.

YOUR PRICE. **\$24.65**

NEW THREE CIRCUIT TUNER



Here is a low priced tuner that provides ample distance, selectivity and volume. Tunes 200 to 570 meters with .00035 condenser. Combines unusual selectivity at an inviting price. No. E948.

For .00035 condensers. **73c**

YOUR PRICE.

R. F. Coil to Match

No. E946. Tunes with .00035 condenser to match above 3 circuit tuner. For broadcast band 200-370 meters.

YOUR PRICE. **30c**

Tapped for Short Wave

New three circuit tuner and R.F. Coil as described above, but tapped for short wave reception. No. E947. Tuner.

YOUR PRICE. **88c**

No. E948. R.F. Coil. **42c**

To match S.W. Tuner. YOUR PRICE.

RADIO FREQUENCY CHOKES



For general use in short wave and broadcast receivers up to 2,025 meters. Low distributed capacity of fine impregnated wire winding.

Size 1 in. O.D x 1 1/2 in. dia. NET EACH

No. E4253. 80 M.H. **58c**

No. E4254. 30 M.H.

No. E4255. 60 M.H.

No. E4256. 10 M.H. For use with sets tuning 600 to 2,000 meters. NET EACH

No. E4257. 3.5 M.H. For short wave use of 10 to 225 meters. NET EACH

No. E4258. 2.5 M.H. For use up to 550 meters. **44c**

Flewelling Shortwave Adapter

Brings the thrill of short wave reception when used with your present receiver. In walnut cabinet with bakelite panel. Bakelite clear vision vernier dial for dialing in. Complete with three coils. (15 to 84 meters.)



No. E956. For sets with 4 prong detectors such as UX-201A, UX-199, WD-11, or AC 226 tubes. No. E955. For A.C. sets with 5 prong detectors. List, \$15.00.

SPECIAL NET. EACH. **\$4.95**

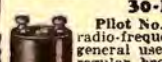
Air King Short Wave Plug-in Coils



A reasonably priced short wave plug-in coil set, for circuits requiring high amplification with low loss. Forms are of bakelite. Handles engraved with identifying coil number. Four coils in set, covering range from 15 to 210 meters when used with .001 microfarad condenser.

No. E950. List, per set of 4 coils, \$3.75. YOUR PRICE. **\$1.36**

Pilot R.F. Choke Coil



30-Millihenry Pilot No. 131. 30-millihenry radio-frequency choke coil for general use in short wave and regular broadcast receivers.

Its choking effect extends from about 15 meters up to 600, its distributed capacity being very low. Dimensions: 1 1/4 in. high, 1 in. diameter. No. E594. YOUR PRICE. **73c**

New Air King Short Wave Converter



A truly outstanding short wave converter. All of the fascinating and intriguing qualities of short wave reception are in store for the fan with this excellent unit. Covers short wave band from 20 to 125 meters. Employs 3-227 tubes. Single dial control. No body capacity or squeals. Draws only B voltage of 45 to 180 volts from receiver.

Built-in Filament Supply and Wave Selector Switch

Incorporates a built-in wave selector switch which does away automatically with coil changing and a built-in filament transformer to heat the tubes used. R.F. Amplification affords maximum efficiency. Size 7x10x5 in. Shpr. wt. 8 lbs.

An exceptionally remarkable short **\$8.75** wave value. No. E953. Less tubes. List, \$25.00. YOUR PRICE.

NEW WEST COILS-CHOKES & ACCESSORIES

High Gain T.R.F. Coils LITZ WOUND

Bank wound with Litz wire, permitting unusual sensitivity and uniform gain over entire wave band. Round shielding can 2 1/2 in. high, 1 1/2 in. diameter. Use with .00039 condenser. Covers 1700 kilocycles (police signals) to 540 kilocycles.

ANTENNA COIL
Small but highly efficient. New design mounting reduces efficiency loss. No. E5267. **44c**

RADIO FREQUENCY COIL
Same size and type of mounting as above with R.F. coil winding. No. E5268. NET. **44c**

WUNDERLICH COIL
Same size and mounting as above but with center-tapped inductance for Wunderlich or 55 tube circuit. No. E5269. NET. **54c**

4 TUBE KIT
Contains 1 Ant. Coil and 1 R.F. Coil. No. E5272. **88c**

5 TUBE KIT
Contains 1 Ant. Coil and 2 R.F. Coils. No. E5273. NET. **\$1.32**

WUNDERLICH 5 TUBE KIT
Contains 1 Ant. Coil and 2 Tapped R.F. Coils. No. E5287. NET. **\$1.52**

(All kits include schematic diagrams.)

High Gain Superhet Coil Kits

Complete set of coils for five tube 175 Kilocycle Superheterodyne. Uses the 5 tubes. This quality set of coils permits construction of a set with sensitivity of about 5 microvolts.

5 TUBE KIT
Consists of one composite coil (detector, oscillator and first I.F. transformer), one intermediate frequency transformer, one band pass pre-selector, and an output I.F. transformer. Cans sized 2 in. x 2 in. x 3 in. high. Top tuning. For Superheterodyne using screen grid tubes. Complete circuit blue print enclosed with each kit. No. E5274. YOUR PRICE. **\$2.49**

FOR NEW WUNDERLICH OR 55 DUAL DETECTOR
No. E5275. Same as above, but with center tapped output I.F. transformer. For new Wunderlich or new 55 Dual detector tubes. **YOUR PRICE. \$2.68**

175 K.C. I.F. Transformer
High gain shielded output intermediate frequency transformer. Laboratory peaked at 175 K.C. Included in five and 7 tube superheterodyne kits listed on this page. Inductances are specially wound between layers of paper which gives the exceptionally high gain. Contained in square cans 2 1/2 x 3 3/4 high. Top tuning, base mounting, with lead at bottom. For superheterodyne using new screen grid tubes. No. E5282. **YOUR PRICE. 88c**

FOR WUNDERLICH OR 55 DUAL DETECTOR TUBES
The 175 K.C. intermediate frequency transformer as described above but center tapped for the new Wunderlich or 55 dual detector tubes. No. E5283. **YOUR PRICE. 98c**

Note! The Wunderlich and 55 tubes use center tapped coils for both TRF and Super-Het circuits. Other coils are adaptable for Screen Grid Tubes—24, 35, 56, and 58. All Coil Kits include schematic diagrams.

175 K.C. Composite Oscillator

Composite high gain coil used as the first detector, oscillator and first I.F. transformer. Eliminates the use of one tube with no loss in efficiency. Top tuning. Used with 5 and 7 tube superheterodyne kits as listed on this page. Laboratory peaked at 175 K.C. No padding condenser necessary as it is made for the new special tracking oscillator section variable condensers. (.00038 mfd.) Enclosed in square cans. 2 1/2 x 3 3/4. No. E5276. **YOUR PRICE. \$1.23**

Shielded Preselector

High gain shielded band-pass preselector. Utilized in five tube superheterodyne as listed on this page. Contained in square cans 2 1/2 x 3 3/4 high. Top tuning, base mounting, with lead at bottom. No. E5277. **YOUR PRICE. 88c**

Midget 175 K.C. I.F. Trans.

The only midget high gain I.F. transformer. Top tuning. Can be used in place of the larger I.F. transformer illustrated with the 5 and 7 tube kits, or in any set in which space is a factor. 1 1/2 x 1 3/4. No. E5278. For superhets with S.G. tubes. **YOUR PRICE. 78c**

No. E5279. With secondary center tapped for new Wunderlich and 55 dual detector. **YOUR PRICE. 88c**

High Gain 7 Tube Superhet Coil Kits

Complete set of high gain coils for constructing the finest type of 7 tube superheterodyne. The set includes one Antenna coil, one R.F. coil, one oscillator, and two intermediate frequency transformers. Shielded in square metal cans 2 1/2 x 3 3/4 high. I.F. transformers peaked at 175 K.C. Oscillator for use with new "special section" condenser. Top tuning. For superhets with new S.G. tubes. No. E5280. **YOUR PRICE. \$3.95**

FOR NEW WUNDERLICH OR 55 DUAL DETECTOR
No. E5281. Same as above but with I.F. transformer center tapped for the new tubes specified. **YOUR PRICE. \$4.15**

Low-Loss Plug-in Coil Kit

Set of 4 low-loss plug-in coils for short wave and television. Wiring diagrams for building Short Wave receiver included with each set. Wound on ribbed tor loss forms. 18 to 200 meters range when tuned with .00015 mfd. variable condenser. No. E1490. **YOUR PRICE. \$1.68**

New Isolantite Low Loss Coil Forms

Strictly low-loss coils for amateurs. Handle at the top facilitates easy withdrawal from socket. Made of bakelite with ribs accurately spaced for scientific coil winding. Length 3 1/2" diameter 1 1/2" with 2 1/2" winding space. Supplied in 4, 5, and 6 prongs.

No. E4227. 6 Prong. **49c**
List. 85c. NET EACH
No. E4228. 5 Prong. **43c**
List. 75c. NET
No. E4229. 4 Prong. **37c**
List. 65c. NET

New Low Loss Bakelite Ribbed Coil Forms

Plug-in coil forms made of Special Low Loss Bakelite. Standard bases to fit either 4, 5 or 6 prong sockets. Winding space on coil form 2 1/2" with an extended ridge on top for handling form. Eight ribs on surface for low loss air core windings. Outside diameter 1 1/2". In a variety of colors. Ideal for the amateur.

Color	4 Prong	5 Prong	6 Prong
Black	E1475	E1480	E1485
Brown	E1476	E1481	E1486
Red	E1477	E1482	E1487
Green	E1478	E1483	E1488
Orange	E1479	E1484	E1489
NET EACH	20c	24c	28c

Lattice Wound R.F. Chokes

High impedance chokes. For use in first or second detector plate circuit of superhet or for a T.R.F. receiver. Can also be used as antenna choke. Diameter 1". Center hole mount. No. E5284. **23c**

8 Millihenry. NET. **23c**
No. E5285. **29c**
8 Millihenry. NET
No. E5286. **31c**
16 Millihenry. NET

MIDGET SOLENOID T R F COILS

The right coils for circuits requiring accurate R.F. coils. Enameled wire used to insure minimum loss. Tunes 200 to 550 meters with .00035 condenser. Readily adaptable for operation with multigangs or single condensers. No. E7208. **68c**

THREADED BAKELITE COIL FORMS

No. E6831. Threaded Coil Forms 1 in. diameter. 1 1/2 in. long; 30 threads per inch. **YOUR PRICE. 5c**

No. E6832. Unthreaded. 1 1/2 in. outside diameter. 2 1/2 in. long. **YOUR PRICE. 4c**

BOBBINS FOR R. F. CHOKES

For making R.F. Chokes. 1 1/2" diameter. Quoted at a savings for radio builders. No. E6833. **6c**

Bakelite Coil Forms

Blank bakelite coil forms for winding short wave coils. A real bargain for amateurs who wish to wind own coils. No. E1619. 4 Prong. **13c**
No. E1620. 5 Prong. **13c**
NET EACH

CONDENSERS - TRIMMERS - ACCESSORIES

De-Jur Amsco Superheterodyne Oscillator "Tracking" Condensers .00036 Mfd.



Designed for latest type Superhet circuits, making possible the co-axial mounting of the condensers, tuning the oscillator, preselector and first detector stages, with the composite tuning arrangement so that the oscillator will track at a given frequency of the 175 kilocycle I-F amplifier.

.00036 CAPACITY

Eliminates padding arrangement, semi-variable condensers and in some cases, resistors. This condenser makes the adjustment of the oscillator section as simple as that of the selector circuits, with a high degree of accuracy. Each section is equipped with individual compensators, and the end rotor plates are slit for more minute adjustment over the entire band. Heavy construction with ball bearing shafts. Trimmers may be mounted on either side for either clockwise or anti-clockwise rotation.

No. E2723. 2 gang. Size $4\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$.
List. \$5.50.
NET EACH. **\$1.39**
No. E2724. 3 gang. Size $4\frac{1}{2} \times 3\frac{1}{2} \times 4\frac{1}{2}$.
List. \$8.25.
NET EACH. **1.98**
No. E2725. 4 gang. Size $4\frac{1}{2} \times 3\frac{1}{2} \times 5\frac{1}{2}$.
List. \$11.00.
NET EACH. **2.68**

DE-JUR TRF MODEL CONDENSER

Frame is of steel to withstand mounting and transportation strain, without affecting the tuning curve or electrical characteristics. Tuning curves are designed to meet present day rigid requirements. Ball bearing—self aligning. Construction as above except that all sections have identical capacity curve which is correct for TRF circuits.

No. E2726. 2 gang. **PRICE. \$1.39**
No. E2727. 3 gang. **PRICE. \$1.98**
No. E2728. 4 gang. **PRICE. \$2.68**

New U S L Condensers



A very efficient condenser at low price. All coupling effects eliminated. Ball bearing shaft. Phosphor bronze rotor contact. Uniform tension permits selective tuning. Compensators have ground adjusting control.

.00036 CAPACITY
No. E7260. Single. **PRICE \$0.58**
No. E7261. 2 gang. **PRICE 1.25**
No. E7262. 3 gang. **PRICE 1.75**

.00015 CAPACITY
No. E7263. Single. **PRICE \$0.55**
No. E7264. 2 gang. **PRICE 1.15**

Hammerlund Midget Condensers

Hammerlund midgets feature extreme accuracy of construction, assured by latest type insulating insulation to reduce dielectric loss to minimum. No screws or nuts. All parts either soldered or riveted. Vibration-proof construction. Ideal for Short Wave and Auto Receivers.



No.	Plates	Min. Mmf.	Max. Mmf.	List	NET
E3927	3	3	20	\$1.50	\$0.88
E3928	5	4	35	1.50	.88
E3929	7	5	50	1.80	1.06
E3930	14	6	80	2.00	1.18
E3931	14	8	100	2.30	1.38
E3917	19	7	140	2.50	1.47
E3932	27	10	200	2.80	1.64
E3933	34	10	260	3.00	1.78
E3916	43	12	320	3.50	2.08

DUAL MIDGETS

No. E3919. 100 Mmf. Per Section. List, \$4.40. NET. **\$2.59**
No. E3918. 140 Mmf. Per Section. List, \$4.80. NET. **2.82**

KNIGHT GANG CONDENSERS

A superior condenser for either original installation or replacement. Split end rotor plates for minute adjustment. Equalizers are conveniently mounted for simple adjustment and retain settings without variation. Fully shielded between sections to obstruct any capacity coupling.



COMPACT—STURDY

Housing stamped from one piece of heavy gauge steel. Reinforced to eliminate the slightest variation or torque. Positive contact with readily accessible soldering connections make this efficient condenser especially adaptable for either midset receivers, auto sets or replacement work.

RIGID CONSTRUCTION—SELF ALIGNING

Shaft is turned brass, standard $\frac{1}{8}$ in. ball bearings mounted, making it self aligning under all conditions, resulting in smooth effortless control. Plates of heavy stamped aluminum. All but end plates coupled at upper end to insure rigidity. Size $2\frac{1}{2}$ in. deep. $3\frac{1}{2}$ in. wide. Individual sections, $1\frac{1}{2}$ in. across.

2 GANG	3 GANG	4 GANG
No. E2251.	No. E2252.	No. E2253.
NET EACH. \$1.96	NET EACH. \$1.44	NET EACH. .96c

DE-JUR SPECIAL SHORT WAVE 2 GANG .00014 CONDENSER

The precision in construction for which De-Jur is famous makes this condenser one of the most satisfactory for installation where a .00014 two gang is required. For short wave work. Individual sections fully insulated from each other and from the frame, permitting complete universal mounting for any circuit. Compensations permit micro-matic adjustment.

No. E2729. **YOUR NET PRICE. \$1.95**

SPECIAL VALUE CONDENSERS

A spectacular assortment consisting of such well known makes as General Instrument, S. F. A. L., Bremer-Tully, etc. Built to sell for many times their price. As capacity values are not complete, we reserve the right to substitute another brand of like value if necessary.

No. E5414. .00025. **34c**
No. E5415. .0003. **34c**
SPECIAL PRICE, NET EACH

2 Gang Special Condensers

Special values in Bremer-Tully and General Instrument condensers at a fraction of the original value.

No. E5425. Bremer-Tully .00025.
No. E5503. General Instrument .0003.
YOUR SPECIAL PRICE. 73c
EACH

USL MIDGET CONDENSERS

Precision and compactness make these condensers ideal for Short Wave and Auto receiver installation. Single hole mounting—rugged, and accurate construction. A standard condenser at a popular price.

No.	Plates	Min. Mmf.	Max. Mmf.	NET
E7250	3	3	15	36c
E7251	5	4	30	39c
E7252	7	5	40	39c
E7253	9	6	65	44c
E7254	15	7	100	48c
E7255	23	9	140	65c

PILOT FLEXIBLE COUPLING

Insulated coupling for $\frac{1}{8}$ in. shaft, for coupling or ganging single condenser sections into multiple units.
No. E5968. List, 40c. **NET. 24c**

PILOT CENTRALINE CONDENSERS

Centraline condensers of the well known Pilot quality. Accurately built of non-corroding brass parts, with highly polished aluminum end plates. Single hole mounting.

Shaft extension permits ganging of two or more condensers. Connection to Rotor made by brass pigtail, insuring positive noiseless contact.
No. E5972. .00016. **\$1.03**
YOUR PRICE .00025. 1.03
No. E5973. .00025. **1.03**
YOUR PRICE .00035. 1.08
No. E5974. .00035. **1.08**
YOUR PRICE .0005. 1.23
No. E5975. .0005. **1.23**
YOUR PRICE

NEW PILOT SHORT WAVE CONDENSER

Built with the same precision inherent in all Pilot products. Plates are extra-spaced to assure accuracy of calibration at the low settings. Shields measure $4\frac{1}{2}$ in. x $3\frac{1}{2}$ in. x 3 in. wide. Capacity .00014 per section. Two sections for short wave circuits.
No. E5976. **\$1.96**
List, \$5.00.
YOUR PRICE.

NEW PILOT MIDGET CONDENSERS

Valuable for neutralizing R.F. amplifiers, antenna couplings, tuning variable reseruator control, short wave tuning, etc. $\frac{1}{8}$ in. shaft. Very rugged construction. Size $1\frac{1}{2}$ in. wide, 1 to $1\frac{1}{2}$ in. deep. With knob.
No. E5980. .000015 Mfd. } **49c**
No. E5981. .000025 Mfd. }
No. E5982. .00005 Mfd. } **54c**
No. E5983. .0001 Mfd. } **59c**
NET EACH

SOCKETS-PLUGS-DIALS-ADAPTERS-ETC.

EBY BAKELITE SOCKETS



Type 12

Staunchly constructed by bakelite socket. Shell and base moulded in one piece.

"Universal" type—either for above panel or sub-panel wiring. Improved design insures perfect probe contact.

- No. E2865. 4 Prong. **15c**
- No. E2866. 5 Prong. **20c**
- List. 35c. NET, EACH.
- No. E2867. 6 Prong. **25c**
- List. 40c. NET.
- No. E2868. 7 Prong. **25c**
- List. 50c. NET.

TYPE-8 SERIES

Eby moulded bakelite socket for sub-panel mounting. Base consists of separate laminated bakelite plate which rests beneath sub-panel. Socket springs similar to Type 12.



- No. E2869. 4 Prong. **12c**
- No. E2870. 5 Prong. **15c**
- List. 25c. NET, EACH.
- No. E2871. 6 Prong. **15c**
- List. 30c. NET.

SUB-PANEL SOCKETS



Standard Size Latest Design

Laminated bakelite sub-panel sockets. Latest design and sturdy construction. Provide a perfect, long-lasting, efficient low-resistance contact between circuit wiring and prongs of tube.

- No. E2878. 4 Prong. **6c**
- No. E2879. 5 Prong. **8c**
- YOUR PRICE, EACH
- Net Price, 100 Lots Asst., \$4.25.
- No. E2881. 7 prong. **8c**
- 100 Lots. \$5.50. EACH

Midget Type

Of same construction but smaller in size than the standard size sockets described above. Ideally suited for work involving limited space.

- No. E2882. 4 Prong. **5c**
- No. E2883. 5 Prong. **5c**
- No. E2884. 6 Prong. **5c**
- YOUR PRICE, EACH
- 100 Lots Asst., \$3.85.

PILOT LIGHT BULBS

General Electric quality lamps.

- No. Volts EACH
- E2315 2.5 **9c**
- E2315 3.8 **9c**
- E2318 6.0 **9c**
- LOTS OF 10. **88c**

We carry a complete supply of parts and equipment for set builders and service men. If what you want is not listed, write for prompt quotations. ALLIED is anxious to serve you.

UNIVERSAL SOCKET

A laboratory socket for panel or chassis mounting. Very sturdy. Substantial rugged contact for continuous experimental work.



- No. E994. 4 Prong. **11c**
- YOUR PRICE
- No. E995. 5 Prong. **13c**
- YOUR PRICE
- No. E996. 6 Prong. **16c**
- YOUR PRICE

SMALL SPACE SOCKET

Occupies small space. mounts above or below panel. Mounting holes 1/16" center panel 1/16". Affords positive contact.

- No. E990. 4 Prong. **13c**
- No. E991. 5 Prong. **18c**
- NET EACH
- No. E993. 7 Prong. **18c**
- NET EACH

PILOT INSULATED SOCKET

For metal chassis design and base mounting. Silver plated phosphor bronze springs.



- No. E990. 4 Prong. **15c**
- No. E991. 5 Prong. **15c**
- YOUR PRICE

EBY ISOLANTITE SOCKETS

Eby low loss Isolantite sockets. Designed especially for television and short wave sets.

- No. E2885. 4 Prong. **20c**
- NET EACH
- No. E2886. 5 Prong. **22c**
- NET

EBY SPEAKER AND CABLE CONNECTOR

Offer a simple convenient way of making and breaking a number of circuits simultaneously. The male plugs are available with a panel socket demountable moulded caps. For any standard tube socket or connector.

- MALE-2 PIECE CONNECTOR
- No. E2872. 4 Prong. **12c**
- No. E2873. 5 Prong. **12c**
- No. E2874. 6 Prong. **12c**
- NET EACH

FEMALE-2 PIECE CABLE CONNECTOR

Consists of a moulded cap and socket assembly. Bayonet arrangement permits quick and positive assembly. Assembled unit matches moulded Male Plug described above. This socket arrangement method of connection to "hot" wires.

- No. E2876. 4 Prong. **20c**
- NET EACH
- No. E2877. 6 Prong. **25c**
- NET EACH

EBY SPEAKER AND CABLE CONNECTOR

Eby laminated bakelite male plug. Offers simplest and lowest cost method of making multiple circuit connections when used with a standard socket. Standard cables may be soldered into the prongs.



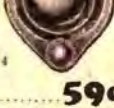
CHASSIS MOUNTING TYPE

Eby male plugs for chassis mounting. Form simple. Inexpensive way of connecting "hot" outside wires to chassis circuit. Plug terminals are constructed to prevent any possibility of short circuit with adjacent terminals.

- No. E2880. 4 Prong. **7c**
- NET EACH
- No. E2892. 6 Prong. **9c**
- NET EACH

KURZ KASCH DIAL

Smooth, positive movement without backlash. Outside bakelite, highly polished. These dials have universal readings, 0-100-0.



- No. E4806. 4 in. diam. **59c**
- NET
- No. E4805. 3 1/2 in. diam. **49c**
- List. \$1.25. NET

BAKELITE VERNIER DIAL

Friction drive vernier dial, always smooth in action and assuring positive calibration. Razor edge contact eliminates backlash. Attractively made of black bakelite with nickelled fittings.

- No. E3990. 0-100. **43c**
- No. E3991. 100-0. **43c**
- YOUR PRICE

2 TONE BAKELITE KNOB

Two tone effect and well proportioned. Appropriate for most receiver designs. Smooth, polished finish.



- No. E2320. 1" **7c**
- No. E2319. 1 1/4" **7c**
- NET EACH

WALNUT RADIO KNOBS

High grade solid wood, one piece construction. Substantial heavy brass 3/8" bushings. Good, lasting fit is assured. Two designs as illustrated.

- No. E7605. 1" **9c**
- No. E7606. 1 1/4" **9c**
- Lower Knob
- No. E7607. 1" **9c**
- No. E7608. 1 1/4" **9c**
- PER 100. \$8.25. NET. EACH

NEW DIALS

Illuminated, with Escutcheons

The latest dial assemblies, reflecting extreme precision in construction. Very smooth-running, giving positive regulation. Built to prevent all possibility of backlash. Supplied with beautiful escutcheon plates in a variety of types. Low bolts.

FAN TYPE

Precisely built Fan Type dial with distinctive window escutcheon as illustrated. 0-100 outside dial diameter, 3/4" Pilot hole.

- No. E2257. NET WITH ESCUTCHEON **61c**

FULL VISION DIAL

A 90° full vision dial with built-in socket and standard plate as shown. 0-100 clockwise. Translucent celluloid scale.

- No. E2256. NET WITH ESCUTCHEON **85c**

SPOT LIGHT FULL VISION

Friction type 180° Full Vision Dial, with traveling pointer and light socket combination. With hood, standard scale and escutcheon. 0-100 clockwise.

- No. E2255. NET COMPLETE **69c**

DIRECT DRIVE FULL VISION

A smooth-running Direct Drive Full Vision assembly with traveling light socket, standard scale and escutcheon plate. Extremely accurate calibration is assured. Beautifully embossed escutcheon.

- No. E2254. NET COMPLETE **39c**

DRUM DIAL

A perfectly constructed high quality drum dial. Translucent calibrated dial strip, reading 0-100 over a 180° arc. Perfect flexibility. New type cable drive permits smooth, positive regulation. No backlash. Complete with 6 volt bulb and heraldic escutcheon. For 3/4" shaft.

- No. E2317. YOUR PRICE **89c**

PANELS - SWITCHES - JACKS - PLUGS

CARTER OUTLET PLATES AERIAL and GROUND



A neat permanent connection. A convenience anywhere. Complete with plug tips. Fits standard wall box. No. E2015. Satin Brass. No. E2016. Brown Bakelite. YOUR PRICE **44c**

A. C. SET OUTLET

Equipped with two Carter tip jacks with "Aerial" and "Ground" nameplates, two "Imp" plugs and standard A.C. Outlet. No. E2018. Satin Brass. No. E2019. Brown Bakelite. YOUR PRICE **79c**

AERIAL & GROUND RECEPTACLE

Outlet for set, dynamic speaker, or two sets and aerial and ground. No. E2020. Satin Brass. No. E2021. Brown Bakelite. YOUR PRICE **88c**

CUTLER HAMMER TOGGLE SWITCHES

Toggle type in all sizes. Single and double throw, providing positive make and break contact. Single hole mount. Wt. 6 oz. No. E2580. Retail, 60c. YOUR PRICE **33c**

C-H.A.C. TOGGLE SWITCH

A high grade, under-writer's approved toggle switch with nickel plated mounting plate. Plate 1 1/2 x 1 in. Depth 1 1/4 in. Used as "on-off" switch for 110 v. A.C. local distance switch, etc. No. E5572. Retail Value, \$1.00. NET **47c**

CARTER JACK SWITCHES

Single hole mounting. Equipped with black knob and name plate. No. E1950. No. 3. Single pole double throw. Three springs. List, 90c. YOUR PRICE **53c**
No. E1951. No. 6. Double pole, double throw. Six springs. List, \$1.25. YOUR PRICE **73c**

SILVER CONTACT JACKS

Phosphor bronze spring, silver contacts and tinned lugs. A splendid value. No. E5602. Closed Circuit—2 springs. No. E5404. Double Circuit—4 springs. YOUR SPECIAL PRICE **47c** EACH
NET, PER DOZ **45c**

RUBBER PANELS

Fine grade rubber for radio and instrument panels. Smooth finish. Will not warp. 3/8 in. thick. **BLACK**

No.	EACH	Size
E3644	\$0.24	7x6
E3645	.32	7x9
E3646	.54	7x12
E3647	.64	7x14
E3648	.79	7x18
E3649	.89	7x21
E3650	1.05	7x28
E3651	1.18	7x36
E3652	1.32	7x30

MAHOAGANY

No.	EACH
E3661	\$0.35
E3662	.53
E3663	.72
E3664	.82
E3665	1.08
E3666	1.26
E3667	1.57
E3668	1.78

WALBERT PANELITE



Mounted on panel above the dial, it throws a shielded non-fused light. Complete with 6 volt miniature bulb. Single hole mount. No. E5410. List, \$1.00. NET **23c**

SWITCH POINTS AND STOPS

Solid brass. Heavy nickel plated. No. E5550. Switch Points. No. E5551. Switch stops. YOUR PRICE, PER DOZEN **5c**
NET, PER 100 **35c**



Bakelite Knife Switch

Substitutable for battery circuits. Bakelite base. Nickelled brass contacts. All types 3/4 in. long. No. E5374. Single Pole Double Throw. NET **25c**
No. E5375. Double Pole Double Throw. NET **45c**
No. E5376. Triple Pole Double Throw. NET **59c**
No. E5377. Five Pole Double Throw. NET **\$1.08**

PORCELAIN KNIFE SWITCH

Heavy copper blades, insulated handle. Weight, 1 lb. No. E4780. Single Pole Single Throw. NET **9c**
No. E4781. Single Pole Double Throw. NET **14c**
No. E4782. Double Pole Single Throw. NET **18c**
No. E4783. Double Pole Double Throw. NET **22c**

MIDGET SWITCHES

Bakelite base switch, for base or panel mount. Base, 1 1/4 in. long. No. E5378. Single Pole Single Throw. NET **8c**
No. E5379. Single Pole Double Throw. NET **13c**
No. E5380. Double Pole Double Throw. NET **23c**

3-OUTLET TABLE TAP

An outlet table tap that will harmonize with the finest table. Will not mar table top. Complete with art silk cord and rubber attachment plug. Two sizes. No. E2513. 6 feet. YOUR PRICE **42c**
No. E2514. 10 feet. YOUR PRICE **49c**

L.C.A. TOGGLE SWITCH

Specialty constructed ball joints facilitate easy toggle switch movement. Complete with "ON" and "OFF" plates. Cap. 1 Amp. 250 volts; 3 Amps.—125 volts. No. E4235. 6 in. in. Shank, Antique Bronze, S.P.S.T. List, 40c. NET **22c**
No. E4236. 6 in. in. Shank, Antique Bronze, S.P.S.T. List, 45c. NET **24c**
No. E4238. 6 in. in. Shank, S.P.S.T. List, 65c. NET **35c**



Double Pole, Double Throw Toggle Switch

Permits switching from phonograph to radio or from radio to phonograph. Has many other uses. Supplied with nickel plated hardware. 3 in. Shank. No. E4237. List, \$1.15. NET **66c**

SWITCH LOCK

For automobile radios, loud speakers in hotel rooms, etc. Key can be withdrawn only in locked position. Nickel plated. 3/4 in. diameter of body. Switch is not rounded. No. E2299. Single pole, two terminal, controlling one circuit. List, \$1.00. NET **55c**

FLAT TYPE PHONE PLUG

Automatic, nothing to take apart; just push in cord type and plug is ready for use. No. E1621. YOUR PRICE **12c**

BAKELITE CUBE TAP

Input for 3 plugs combined into a very compact piece. Durable construction. No. E2926. YOUR PRICE **8c**

BAKELITE PLUGS—TWO & THREE WAY

These plugs provide for double and triple socket input having a wide variety of uses. No. E2924. 2-Way Plug. YOUR PRICE **14c**
No. E2925. 3-Way Plug. YOUR PRICE **24c**

Bakelite Panels

Quality bakelite panels in all standard sizes. Smooth clean surfaced black or walnut. Dye-tinction color wanted. 3/8 in. thick.

No.	Size	EACH
E2270	7x6	\$0.54
E2271	7x8	.87
E2272	7x12	1.10
E2273	7x14	1.35
E2274	7x18	1.73
E2275	7x21	2.05
E2276	7x24	2.30
E2277	7x26	2.50
E2278	7x28	2.68
E2279	7x30	2.90

CUT TO SIZE
3/8 inch thick—per square inch **14c**

EBY ENSIGN BINDING POSTS

Eby Insulated posts. Complete with non-removable engraved tops. Diameter, 3/8 inch. Size: 4 1/2 screws, 4 in. long. No. E2550. Ant. No. E2951. Gnd. No. E2962. Input. No. E2963. Output. List, 15c Each. PRICE **9c** EACH
Speaker + No. E2955. Speaker — No. E2972. Plain. **9c**

SPECIAL PER DOZ. **95c**

BAKELITE TUBING

For winding coils. Genuine bakelite 3 inch lengths—1/2 inch diameter. No. E2280. Inside Dia. 2 in. EACH **12c**
No. E2283. Inside Dia. 3/4 in. EACH **16c**

INSULITE BAFFLE

The best possible material for speaker baffles. Checks vibration rebound. Insulite is now a favorite baffle because of its sound absorbing qualities. 13 1/2 inches square, 3/4 inch thick. Speaker opening 8 1/4 inch diameter. With speaker mounting bolts and nuts. No. E8099. PRICE **18c**

GEM TONE CONTROL

Bring any power tube set up to date. Changes the pitch of the reception to suit your individual taste. By simply turning a knob you can stress the bass or treble. Simply place adapters under your power tubes; no soldering necessary. No. E3220. YOUR PRICE **\$1.23**



PANEL MOUNTING TYPE

Adjustable shaft permits mounting on any thickness of panel up to 1 in. With brown bakelite knob. No. E3221. **\$1.03**

SWITCHES-JACKS-PLUGS-ACCESSORIES

HEAVY DUTY SERVIC HYDROMETER

A large size heavy duty hydrometer. Beaded float practically unbreakable. Rubber parts of live resilient rubber. Wt. 1 1/2 lbs. No. E2940. **YOUR PRICE 67c**

Leader Hydrometer

A large, accurate and dependable hydrometer. Beaded float. Bulb of live, resilient rubber. Spg. wt. 1 lb. No. E2900. Retail Value, \$1.50. **YOUR PRICE 28c**

BATTERY CLIPS LEAD COATED

Sturdy, non-corrosive lead covered battery clips. Take small space and have strong springs. Wt. each, 3 oz.

E5358, 15 amp. **YOUR PRICE 4c**
E5360, 25 amp. **YOUR PRICE 6c**
E5359, 50 amp. **YOUR PRICE 12c**

CONNECTING CLIPS

For connecting wires to "B" batteries, etc. A super-efficient connecting clip. Wt. 10 gms. No. E5362. Nickel finish. **YOUR PRICE 35c**

MUELLER BATTERY CLIPS

Strong-spring clips for testing and battery connection. 10 amp. clip is cadmium plated, the others are of lead-coated steel.

No. E5350, 2" long, 10 amp. capacity. No. 48-B. Box of 10. **35c**
No. E5351, 2 1/4" long, 25 amp. capacity. No. 34-A. Box of 10. **60c**
No. E5352, 3 1/2" long, 50 amp. capacity. No. 21-A. Box of 10. **\$1.20**
No. E5353, 5 1/2" long, 100 amp. capacity. No. 11-A. **PRICE 35c**

PIN JACKS

Nickel plated bronze sprung for phones and loud speaker tips. Wt. 2 oz. No. E2711. List. Each, 15c. **YOUR PRICE 6c**

IMP PLUG

Easy to attach. Fits all standard tip jacks. No. E1952. List. 15c. **YOUR PRICE 5c**

CARTER JACKS AND SWITCHES

Uniformly tempered steel, cadmium plated springs that retain their tension permanently. Positive contacts.

Carter Jack Switch

Efficient little switch that mounts in a small space.

No. E1986, No. 322. Filament switch. **29c**
List, 50c. **NET 29c**
No. E1989, No. 333. 2 position. 3 springs; opens and closes one contact. **35c**
No. E1990, No. 344. 2 position. 4 springs; closes two contacts. List, 70c. **41c**
NET

Carter Short Jacks

Require but small space. No. E1983. Open circuit output. **YOUR PRICE 15c**
No. E1984. Single closed circuit. **18c**

Push Button Switches

Cadmium plated steel springs. Bakelite knobs. Fully insulated. On Looking type, contact is made when knob is pulled out. On Non-locking type, contact is made when knob is pushed in, and returns to open when knob pressure is released.

No. E1993, Carter 422. Locking type. Two springs; closes one contact. No. E1994, Carter 422A. Non-locking, as above. List, 50c. **29c**
NET. EACH
No. E1995, Carter 444. Locking type. Four springs; closes two contacts. No. E1996, Carter 444A. Non-locking, as above. List, 70c. **41c**
NET. EACH

TIP JACKS

Heavy spring contact for positive action. **1985. Retail, 10c. YOUR PRICE 5c**

Western Electric 4 Pole-Double Throw

A fine Western Electric Cam switch of the 4 pole, double throw type with soldering lugs on each end. Heavy coppered contacts and blades. Brass end plates. Bakelite insulation. No. E5409. **YOUR SPECIAL PRICE 68c**

Eby Multi-Polar Multi-Position Switches

Adapted for use on any switching problem that requires the opening or closing of a number of circuits at once or in sequence, especially for use in the R.F. circuits of multi-wavelength radio receivers. Noted features are modifiable capacity has effects between adjacent switch circuits and to ground, and no variable effects. Use of silver plated, phosphor bronze contact springs results in exceptionally low contact resistance. Compact and of sturdy construction.



Cat. No.	No. of Poles	No. of Switch Positions	No. of Circuits Made or Opened In Any Sequence		List	NET
			Once	Up to		
E3070	1	2	1 or 2	2	\$0.65	\$0.41
E3071	2	2, 3, 4 or 5	2 or 4	4	1.00	.69
E3072	3	"	3 or 6	6	1.50	.98
E3073	4	"	4 or 8	8	2.00	1.18
E3074	5	"	5 or 10	10	2.50	1.47
E3075	6	"	6 or 12	12	3.00	1.76
E3076	7	"	7 or 14	14	3.50	2.05
E3077	8	"	8 or 16	16	4.00	2.36
E3078	9	"	9 or 18	18	4.50	2.65
E3079	10	"	10 or 20	20	5.00	2.94

EBY TWIN BINDING POSTS

Consists of standard Ant. and Gnd. Eby posts mounted on strips. Form neat assemblies for making connections to any electrical device. Mounted on laminated or moulded bakelite strips. Insulated posts. Wt., 4 oz. No. E3080. Moulded bakelite strip. List, 25c. **NET 15c**
No. E3081. Laminated bakelite strip. List, 20c. **NET 11c**

EBY TWIN JACKS

Ideally suited for quick connections and disconnections for use with speakers and phonograph units. Supplied in units of moulded or laminated bakelite. **NET. EACH**
No. E3086 Speaker Type **9c**
E3087 Phono Moulded **9c**
E3088 Plain Moulded **9c**
E3089 Speaker Laminated **6c**
E3090 Phono Laminated **6c**
E3091 Plain Laminated **6c**

CARTER NEW SHORT JACKS

A short jack of exceptionally heavy construction that mounts in a small space. Springs held by heavy cadmium plated steel frame, assuring good contacts. Mounts in single 3/8" hole.

No. E1945, Carter 501. One spring; open circuit. List, 40c. **NET 24c**
No. E1946, Carter 502. Two springs; closed circuit. breaks one contact. List, 50c. **NET 29c**
No. E1947, Carter 503. Three springs; open circuit, with one insulated make contact. Single filament control. List, 60c. **NET 35c**
No. E1948, Carter 503A. Three springs; makes one and breaks one contact. List, 60c. **NET 35c**
No. E1949, Carter 501. Four springs; breaks two contacts—double circuit. List, 70c. **NET 41c**

Rotary Snap Switches

High grade rotary snap switches. Contact has remarkably perfect, low resistance characteristics, even after severe use. For use on 125 volts, 3 amps and 250 volts, 1 amp. Wt., 6 oz. No. E3082. Single pole, single throw. List, 25c. **NET 15c**
No. E3083. Single pole, double throw. List, 30c. **NET 18c**
No. E3084. Double pole, single throw. List, 40c. **NET 24c**
No. E3085. Double pole, double throw. List, 50c. **NET 30c**

New A. C. Power Switch

A positive contact rotary power switch. Controls from panel. Steel encased. Efficient. Wt. 4 oz. No. E2337. List, 50c. **NET 20c**

FEDERAL Anti-Capacity Switch

Roller cam mechanism. Four pole double throw switch. Offers unlimited use. Built to finest of standards. No. E5577. **YOUR PRICE \$2.15**

KELLOGG CAM KEYS

Famous Kellogg Cam Keys. Built on T frames with bushings and rollers made of Kellogg, a non-carbonizing material. Springs are of German silver with special contacts.

TYPE 1042
Three sets of make contacts. Single locking. 8 oz. No. E5578. **\$1.25**
YOUR PRICE
TYPE 1030
Two sets make and break contacts on each side. Double locking. No. E5579. **YOUR PRICE \$1.65**

SERVICE MEN'S TOOLS—SUPPLIES—EQUIPMENT

LENK BLOW TORCHES

NO. 50 MASTER BLOWTORCH



Combination alcohol torch. Built to last a lifetime. Fool-proof construction. No adjustment necessary. Full grip handle, always cool.

Powerful 2200° heavy intense flame, or 1700° needle-point flame. A real value. Shpg. wt., 2 lbs. Size, 7 3/4" x 3".

No. E4901. List, \$3.00. SPECIAL **\$2.94**

NEW MODEL 108

Blows itself. Operates on de-natured or commercial alcohol. A copper heat conductor for quick generation.

Leak Proof

Solid base makes it mechanically leak proof. Nozzle cap prevents evaporation. A most unusual bargain. Will give efficient service. Size, 5 1/2" x 2 1/2". Shpg. wt., 1 lb. No. E4902. List, \$1.00. NET **68c**



IMP GASOLINE TORCH

Entirely automatic with a perfect Bunsen flame over 3000° hot. Features a priming cup for quick action. No pumping, no blowing required. A handy torch for jobs requiring a melting, fusing, brazing heat. A sturdily constructed Leak product. Size 2 1/4" x 7 1/4". Shpg. wt., 1 lb. A bargain.

No. E4904. List, \$1.00. YOUR PRICE **59c**

NO. 175 DUPLEX BLOWTORCH

A Leak heavy duty torch featuring a Bunsen burner for outdoor use and heavy soldering for indoor jobs. Bunsen burner can be detached if needle point is desired.

Adjustable Flame

The pressure valve on burner permits adjustment between 1200° and 3000°. Size, 5 1/4" x 2 1/2" x 1 1/2". Shpg. wt., 1 lb. No. E4905. List, \$1.75. YOUR PRICE **98c**



LENK NO. 38 CHAMPION BLOWTORCH

A new Leak product, ideal for radio and other soldering work. Entirely automatic. Produces powerful blast; will develop up to 3000°.

Starts in 20 seconds. Well built of heavy gauge brass, nickel finished. Seamless, built piece construction. Compact, measures only 7 in. by 2 in. Shpg. wt., 2 lbs.

No. E4903. List, \$3.00. YOUR PRICE **\$1.76**



Miller-Fall Hack Saw Frame



An adjustable hack saw frame. Blade can be faced four ways. Adjustable for 8 to 12 in. blades. Equipped with one 10 lb. blade. Shpg. wt., 3 lbs.

No. E3667. YOUR PRICE **35c**

MIDGET HACKSAW

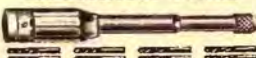


The "Tom Thumb" frame. The handiest and the most compact saw obtainable. With blade. No. E3668.

YOUR PRICE **15c**

GOODELL-PRATT RADIO TOOLS

AUTOMATIC DRILL



GoodeLL-Pratt automatic drill supplied complete with eight drill points. Cuts quickly and makes clean holes 3/16 to 1/16. Well built spiral driven mechanism is practically indestructible. All exposed parts highly polished nickel plated. Drills contained in kalleite handle—each in separate numbered compartment. Length, 10 in.

A useful tool.

No. E3675. YOUR PRICE **\$1.03**

HAND DRILL



Highly serviceable with solid steel frame and single speed, cut gears. Equipped with three-jawed chuck holding any size drill up to 3/4". Large gear, red enameled. Mahogany finished hardwood handle. Length, 10 1/2". Shipping wt., 3 lbs.

No. E3676. YOUR PRICE **74c**

GOODELL-PRATT BREAST DRILL

A sturdy, dependable two speed drill. Three jawed steel chuck holds any size drill up to 1/2 inch. Machine-cut gears, two steel pinions; quick, positive gear shift. Black enameled frame. Large gear red. Mahogany finished hardwood handles. Length, 10 1/2". Shipping weight, 5 1/2 lbs.

No. E3677. \$1.49
YOUR PRICE

RADIO TOOL CHEST

A practical, inexpensive kalleite chest. Contains 10 practical tools. Ideally suited for the service man and set builder. Each tool of sturdy construction. Comprises those tools which are constantly in need—3 and 5 inch screw drivers, scriber, reamer, countersink, pliers, center-punch, socket wrench sets for hexagon and knurled nuts, and 3 wrenches for hexagon nuts from 1/4 to 3/4 in. Wt., 2 lbs.

No. E1565. YOUR PRICE **\$1.93**



RADIO TOOL SET

A very complete set of tools to meet the multiple needs of the service man. Each tool precision built, and finely finished. Consists of the following tools:

- 1 Hatchet Tool Holder, 1 Countersink, 1 3/4 inch screwdriver; Blade 3/4 inch wide.
- 1 4 1/2 inch Screwdriver; Blade 3/4 inch wide.
- 1 1/2-inch Shank for Holding Sockets.
- 3 Hexagon Sockets: 3/8, 1/2 and 3/4 inch.
- 1 Wire Bender for Bus Wire, 1 Hammer.
- 1 Double End Hexagon Wrench for Hex. Nuts.

No. E3678. YOUR PRICE **\$2.88**



GOODELL-PRATT BRACE

A big value in a serviceable, beautifully nickle-plated brace. Equipped with Barber chuck with malleable alloy; jaws and a sturdy semi-boxed ratchet. Mahogany stained hardwood handles with inscribed metal rings. Sween, 10 inches. Shipping weight, 4 lbs.

No. E3679. YOUR PRICE **\$1.03**



RATCHET SCREW DRIVERS

Particularly adapted to radio, electrical, and other light work where small screws are used. Hatches either to right, left or sets solid by turning shifter ring. 3/8 in. dia. shaft.

- No. E3666, 4-inch blade. 63c
- List Price, 85c. YOUR PRICE
- No. E3666, 6-inch blade. 71c
- List Price, 95c. YOUR PRICE

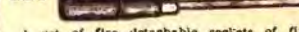


SOCKET WRENCH SET

A set of five detachable sockets of fine wrought steel. Complete with wrench handle.

In popular sizes, 1/4, 3/16, 1/8, 1/16 and 1/32 in.

No. E4200. YOUR PRICE **47c**



Non-Skid Screwdriver Small, shock-proof screwdriver with ribbed points.

Non-Skid Fountain pen style with clip for pocket.

- No. E1567, 1 1/2-inch blade. 9c
- NET
- No. E1568, 2-inch blade. 10c
- NET
- No. E1569, 3-inch blade. 12c
- NET



HACKSAW BLADES

Tempered steel, properly edged.

No. E3669	9 in.	Doz. NET
No. E3670	10 in.	32c
No. E3671	12 in.	55c

TAP AND DIE SET

A set of taps and dies for standard radio size screws, and nuts including 4-38, 6-32, 8-32, 10-24 and 14-20, including 6 1/4 in. stock and adjustable tap wrench.

No. E3790. List, \$8.00. NET **\$5.40**



RADIO REAMER

Enlarges holes to desired size. Works well with kalleite or hard rubber. Wt., 6 oz.

No. E1566. YOUR PRICE **17c**



STEEL TWIST DRILLS

No. E3902	4 Drills 1/16 to 3/32	15c
NET		
No. E3903	9 Drills 1/16 to 3/16	29c
NET		
No. E3904	12 Drills 1/32 to 3/8	85c
NET		



COOLKUTTER TOOL GRINDER

Efficient, inexpensive tool grinder. Grey iron case, milled die iron handle and clamp screw. All rears and steel pinion are machine cut, enclosed dust proof case. Finished in green sinter, brass name plate, nickel trimmings. High quality grinding wheel.

- No. E8980, 4"x11"x3/8" wheel size. NET **98c**
- No. E8981, 6"x11"x1/2" wheel size. NET **\$1.32**



SERVICEMEN'S SUPPLIES AND EQUIPMENT

HEAVY GAUGE TOOL KITS



A heavy gauge utility chest with an automatic cantilever tray. This chest is especially adapted for housing the serviceman's tools and supplies, but can also be put to innumerable other uses, such as a fishing tackle box, lunch and outfit box, for valuable papers, etc. Equipped with cantilever tray. Size 14 and 6 1/2 x 8 inches.

No. E8910. YOUR SPECIAL PRICE **93c**

With Removable Tray

A utility chest exactly as described above with the exception that it is equipped with a removable tray, which can be placed anywhere on a job. Tray has a flush handle and movable partitions.

No. E8911. YOUR SPECIAL PRICE **78c**

KESTER ROSIN CORE SOLDER



The solder made of the highest grade tin and lead obtainable, incorporating pure rosin flux of the greatest efficiency.

No. E4720. 6 oz. tin. YOUR PRICE **15c**

No. E4719. 1-lb. roll. approximately 50 ft. YOUR PRICE **40c**

AMERICAN BEAUTY SOLDERING IRONS



No. E985. The ideal soldering iron complete to every detail, with special stand. Wt. 2 lbs.

List Price, \$8.00. YOUR PRICE **\$5.23**

No. E986. Extra 3/4 in. tip for above. Weight, 0 oz. YOUR PRICE **45c**

No. E987. Handy 50 watt iron for light radio and telephone work. Chisel point tip 3/8 in. diam. Shipping wt. 1 1/2 lbs.

List Price, \$4.50. YOUR PRICE **\$2.93**

Wellmade Soldering Irons



Well constructed, durable irons with exceptionally fine heating elements, insuring long life. Model B. A substantial 75 watt iron for general service. 6 foot asbestos-covered cord, and plug. One tip. A very serviceable product, attractively priced.

No. E7780. YOUR PRICE **\$1.45**

Heavy Duty Iron

Model C. A heavy duty 100 watt iron with two interchangeable tips, 6 foot cord and plug. Heavier construction than Model B. Extremely durable. For all types of soldering work.

No. E7781. YOUR PRICE **\$2.23**

VAC-U-CUP Floor Levelers

Made of new live rubber. Used with radio sets, washing machines, refrigerators and other motor driven appliances. Prevents radio sets and furniture from rocking, slipping and scratching, and aids in eliminating vibration.

No. E6760. YOUR SPECIAL PRICE **28c**

Per set of 4.

Screen Grid Connector Cap

A spring clip for the terminals of screen grid tubes.

No. E2266. PRICE, EACH **2c**

Dozen Lots **14c**

MORRIS COIL WINDER



The Morris improved universal coil winding machine will wind Honey Comb, Spider Web, Solonoid, etc., in different widths and diameters, and will use wire of different gauges. An ideal machine for the experimenter. Will pay for itself many times.

No. E5250. List Price, \$7.50. YOUR PRICE **\$4.35**

Long Nose Side Cutting Pliers



A fine tempered tool steel long nose side plier for reaching "out of the way" places. Wt., 12 oz.

No. E3900. YOUR PRICE **35c**

Diagonal Cutting Pliers



Sturdy diagonal cutting pliers made of fine tool steel and with special tempered jaws. Wt. 12 oz.

No. E3901. YOUR PRICE **37c**

SPECIAL SOLDERING IRON



A quality soldering iron. Heats up in three minutes and maintains heat while in use. Complete with 6 ft. flexible cord. A real value.

No. E6619. List Price, \$1.12. YOUR PRICE **\$1.12**

SCREW DRIVER



A highly serviceable screw driver, well constructed. Has 3" blade of tempered steel. Sturdy, shock-proof, rubber handle. Wt. 8 oz. Priced very low.

No. E1002. YOUR PRICE **7c**

PANEL CUTTER

Conveniently a and rapidly cuts circular holes in panels. Adjustable 1/4 to 3/8 in. Shank diam. 5/8 in. Wt., 1 lb.

No. E6785. List Price, \$3.15. YOUR PRICE **\$1.85**

Neutralizing Wrench and Screw Driver



A new tool that is breaking sales records. One end is equipped with proper screw driver for neutralizing, and the other with toothed wrench for tightening all small nuts. Shipping wt., 8 oz.

No. E1617. List Price, \$3.75. YOUR PRICE **38c**

Screw Assortments

A machine screw assortment prepared to meet the needs of the service man and builder. Includes a total of 85-5/32 screws ranging in size from 1/8" to 1".

No. 1 assortment, 85 round head screws. YOUR PRICE **24c**

No. 2 assortment, flat head screws. YOUR PRICE **24c**

No. E2391. YOUR PRICE **24c**

Serviceman's Hardware Kit

Assembled to meet universal requirements. Consists of 2 gross of assorted machine and wood screws; 2 gross soldering lugs, assorted; one gross washers; one gross nuts; 2 doz. knurled nuts; 50 ft. annunciator wire; 2 ft. rosin core solder.

No. E2333. YOUR SPECIAL PRICE **93c**

Hexagonal Nuts

Made of nickel plated brass. Countersink for quick assembly work.

E2380. 6-32. 20c
E2381. 8-32. 20c
Per 100.

Soldering Lugs



1. 2. 3. 4. 5.
No. E2351. Style 1. N.I.P.
No. E2352. Style 2. PER
No. E2353. Style 3. BOX OF
No. E2354. Style 4. 100
No. E2355. Style 5. 18c

Flat Washers

200 assorted washers of metal and fiber. Handy for all uses.

No. E2382. YOUR PRICE **25c**

MACHINE SCREWS FOR SERVICEMEN

Round Head

Standard thread, good quality. Buy in gross lot, and save money.

1 Gross in Each Box

No.	Length	Gross
E2328	1/2"	50.20
E2329	3/8"	42.00
E2330	1/2"	42.00
E2331	3/4"	66.00
E2332	1"	90.00
E2333	1 1/4"	1.30
E2334	1 3/4"	2.00

Oval Head

E2336 1/2" 42
E2337 3/8" 56
E2378 1/2" 50

Brass Wood Screws

1 1/2" wood screws, size 8. No. E2389. 100 to the box. NET **85c**

Flat Head

No.	Length	Gross
E2335	1/2"	25
E2336	3/8"	25
E2337	1/2"	66
E2338	3/4"	90
E2339	1"	1.30
E2340	1 1/4"	2.00

Oval Head

E2336 1/2" 42
E2337 3/8" 56
E2378 1/2" 50

Brass Wood Screws

1 1/2" wood screws, size 8. No. E2389. 100 to the box. NET **85c**

Jefferson Tubular Fuses

For safe carrying of fuses, radio and electrical appliances, etc.

No. Amps. E4426. 1 1/2" BOX OF 5
E4414. 1 1/2" 14c
E4416. 2" 14c
E4427. 3" 14c
E4428. 4" 14c
E4416. 5" 14c
E4417. 10" 14c
E4418. 15" 14c
E4419. 20" 14c
E4429. 25" 14c

SERVICEMEN'S AND SETBUILDERS' SUPPLIES

SERVICEMEN'S POCKET FLASHLIGHT



A necessary service tool. Lights the dark corners inside cabinet and chassis. Throws concentrated spot of light. Carried in vest pocket like a fountain pen. Length, 5 1/2 in. Diam., 3/8 in. Shkg. wt., 1 1/2 lbs. No. E2221. Complete with cell and bulb.
YOUR PRICE..... **33c**
 No. E222. Extra cell.
NET EACH..... **10c**

RMA Color Code Resistor Chart



Indicates exact resistance of any R. M. A. resistor color code combination, quickly, clearly and accurately. Reverses, tells color code combination for any resistance. Durable celluloid. Conveniently carried.
NO. E2330
YOUR PRICE..... **37c**

BRACKET ASSORTMENT



Contains 28 of the most popular angles and brackets used on the average radio set. Manufactured of solid brass and neatly nickel-plated. Every service man needs a set.
NO. E2359
NET PER SET..... **40c**

Shipping wt., 1 lb.

Fibre Washer Assortment

An essential assortment for the service kit. Consists of different types of shouldered and plain fibre washers, of great use at all times. Shpg. wt., 8 oz. 100 in box.
NO. E2360. Per box
YOUR PRICE..... **25c**



WINDOW LEAD-IN

Fits between sash and sill. Fahenstock connector on each end. 7 oz.
NO. E2911. 10 in. **6c**
NET EACH
NO. E2910. 12 in. **4c**
NET EACH

SPRING AERIAL

Has two to five times capacity of ordinary aerial. Easy to erect. Is non-directional. Stretch of 15 to 30 ft. With two fibre end insulators. 8 oz.
NO. E6781
NET..... **13c**

Transmitting Insulator

A high grade strain insulator. Rust-proof with advanced eyelets. Prevents shorts by shedding water and snow. 18 in. long. Shpg. wt., 2 1/2 lbs.
NO. E5484
NET EACH..... **24c**

Fahenstock Connectors

For connecting wires or as binding posts. Wires held firmly in spring strip. 1 oz.
NO. E3270. Single. **11c**
NET PER DOZ.
NO. E3271. Double. **28c**
NET PER DOZ.

Insulated Staples

Saddle type insulated staples. Sturdy, durable, and very useful. Packed 100 to the box. 4 oz.
NO. E2931. Per 1000 (10 Boxes), **95c**.
Per Box (100)..... **11c**

I C A Short-O-Tester



A circuit and continuity tester, of great value to the serviceman. Consists of a 2 1/2 volt lamp and a small sized flashlight battery. When wire lead with clip is attached to one end of a circuit and contact is made through the pin terminal with the other end, lamp will indicate whether circuit is open or closed. Will test the continuity of practically all radio circuits. Can also be used as flashlight by connecting clip lead to pin base. 1 1/2 lbs.
NO. E1640. List, \$2.00.
YOUR PRICE..... **\$1.05**

Neutralizing Screw Driver



For all types of neutralizing and aligning work. An essential item of the serviceman's kit. Available in knob and ordinary insulated types. 8 oz.
NO. E1641. Knob Type. **32c**
List, 55c. NET
NO. E1642. Less Knob. **27c**
List, 50c. NET

EAGLE DETECTOLITE



Detects live and ground wires. Indicates voltage from 110 to 550; tells if current is A.C. or D.C. and whether 25 or 60 cycles. Bakelite case. Heavily insulated leads. Nothing to get out of order. Neon bulb for visible information. 5 oz.
NO. E2935. List, \$1.50.
YOUR PRICE..... **88c**

SERVICE TEST LEADS SERVICE MODEL



Quickly attached to meter for testing radio and electrical equipment. Sturdy black and red tubing and black and red wire. For positive and negative identification. Shkg. wt., 8 oz.
NO. E1643. Phone tip terminals. **35c**
NO. E1644. Spade tip terminals.
YOUR PRICE, EACH

PHONO-NEEDLE MODEL

Needle point test leads for testing circuits without removing wire insulation. Needle point penetrates insulation without injuring it. Length, 60 in. Shpg. wt., 8 oz.
NO. E1646. Spade tip terminals. **35c**
NO. E1645. Phone tip terminals.
YOUR PRICE, EACH

HEAVY DUTY LAB. MODEL

Needle point leads. Over-sized insulated handles. Fitted with chuck to take a regular phonograph needle. No. 16 wire, heavy insulation for heavy duty radio, electrical and automatic work. Shkg. wt., 8 oz.
NO. E1647. With phone tips. **48c**
NO. E1648. With spade tips.
YOUR PRICE, EACH

4-IN-1 NEUTRALIZING AND ALIGNMENT TOOL



A well made 4 in 1 Neutralizing and alignment tool. An important item in the service man's tool kit. Attachments for Crosley and Majestic sets are listed below. 8 oz.
NO. E1818
YOUR PRICE..... **48c**
NO. E1815. Crosley attachment.
NO. E1816. Majestic attachment. **15c**
EACH

GROUND CLAMPS

Mueller Clamp
 Durable and rigid because of channeled construction. Cap screw, cadmium plated. 5 oz.
NO. E5363.
Lois of 100, \$4.00.
NET EACH..... **5c**

STRAP CLAMP
 Easily applied to any pipe or rod. Grips tightly. 3 oz.
NO. E2912.
Per 100, \$1.95.
NET EACH..... **2 1/2c**

KNOC-OUT Ground Clamp
 An efficient and easily attached clamp which improves reception. 3 oz.
NO. E2181.
Per 100, \$4.55.
NET EACH..... **5c**

PORCELAIN NAIL IT KNOBS
 Insulated nail. Grooved center. Extra heavy unbreakable cap. Shpg. wt. per doz., 2 1/2 lbs.
NO. E4790
YOUR PRICE, PER DOZ...... **17c**

Wall Insulator
 For stratching lead-in or ground wire to posts or side of building. 8 oz.
 Center of bakelite mounted in galvanized screw eye. Per
NO. Length 10 EACH
E7510 1 in. 25c
E7511 3 in. 22c
E7511 6 in. 25c
4c

BAKELITE AERIAL AND GROUND CONNECTOR

Genuine Stewart Warner aerial and ground receptacle and plug. Made of bakelite with strong tension springs. A very neat assembly for wall mounting. Recommended for dealers' display booths as well as home use. Used by experimenters for trying different length aerials. 4 oz.
NO. E5447.
Per Doz., 95c.
NET EACH..... **9c**

STRAIN INSULATOR

For insulating long aerials or guys. White porcelain. Extra strong. 8 oz. each.
NO. E5458.
Per Doz., 21c.
EACH..... **2c**

LEAD-IN-WIRE Rubber and Braided Weatherproof

High grade tinned copper wire, rubber covered with weather proof braids.
NO. Feet NET
NO. E2556 25 50.35
NO. E2557 50 1.00
NO. E2558 100 .68
NO. E2559 1000 6.35

SHIELDED WIRE

A high grade rubber covered lead-in wire. No. 18 stranded. Rubber insulation with shielding of tin copper braid.
NO. Feet NET
NO. E2585 50 50.47
NO. E2586 100 .92
NO. E2587 1000 8.90

AERIAL INSULATORS PORCELAIN

Standard type. insulators. Very strong. 8 oz.
NO. E5927. 4 in. **5c**
NO. E5926. 2 1/2 in. **2c**
Per Doz., 21c. Each

GLASS INSULATORS

Highly efficient. Designed for great strain. Length, 4 in. Wt. each 6 oz.
NO. E6920. **3 1/2c**
Per Doz., 38c. EACH

WALL INSULATOR

For supporting wire-line or instruments. Porcelain construction. 1 1/2 in. long. 1 1/2 in. high. Very strong and adjustable. May be used outside for supporting lead-in or ground wires. Wt. per doz., 4 lbs.
NO. E4785. **9c**
Per Doz., \$1.05. NET EACH

STAND-OFF INSULATOR

Made of porcelain. 4 in. long. For finest antenna installations. Shipping weight, 10 oz.
NO. E4784. **8c**
Per Doz., 93c. NET EACH

AERIAL AND GROUND EQUIPMENT

IDEAL BALL AERIAL

An efficient antenna for all radio sets. A great improvement over the wired type of antenna. 10 in. weather proof ball with bakelite insulator and condenser. Made of aluminum and highly polished.

LESS STATIC—MORE SELECTIVE MULTI-DIRECTIONAL

Radio signals received from all directions, increasing range considerably. Static interference is minimized. Makes set more sensitive and selective. Mounts on 1/2 in. pipe. No pipe included. Wt., 4 lbs.

No. E161. List, \$5.50. **\$2.38**
NET

ACCESSORY KIT

Includes 25 ft. lead-in wire. 50 ft. copper guy wire. 8 ft. mast. lead-in, ground clamp, 3 porcelain insulators and universal mast base. Wt., 18 lbs.

No. E142. **\$1.78**
YOUR PRICE



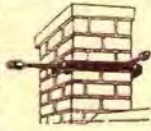
BELDEN AERIAL CLAMPS



These modern weatherproof aerial clamps support antenna rigidly. Rust-proof and sturdy. Easily installed and easily removed. No nails required. No holes to damage roofs or woodwork. Can be installed on window sills, around gutters and eaves, on apartment house parapets and around chimneys. Simply set clamp and tighten. Perfect installation is assured. Offered at an amazingly reduced price.



PERMANENT-RIGID



\$2.50 Value
NO. E8040
SPECIAL

Net **38c**
Each

Once installed gives permanent aerial service. Cadmium plating on insulator rods prevents rust. Channel iron clamp coated with baked on black enamel. Kit includes two clamps and three large porcelain insulators firmly attached to the metal aerial supports.
Doz. Lots. **\$3.95**

SPECIAL AERIAL KIT

A complete aerial kit designed for any type of aerial installation. Improved radio reception at a small cost.



CONTENTS

50 ft. of 7 strand Copper Aerial Wire. 25 ft. Rubber Insulated Lead-in. One Window Lead-in. two Porcelain Strain Insulators. two Porcelain Nail Knobs. one Lightning Arrester and one Ground Clamp. Conveniently boxed. Shipping weight, 4 lbs.

No. E2524. **38c**
Retail, \$2.00.

YOUR SPECIAL PRICE.....

DE LUXE KIT

A larger aerial kit. Contains 100 ft. 7 strand wire, 40 ft. rubber covered lead-in, 25 ft. insulated ground wire, one ground clamp, four porcelain strain insulators, two screw insulators, lightning arrester and window lead-in. Shipping weight, 6 lbs.

No. E2526. **65c**
YOUR PRICE

Bud Aerial Eliminator

In bakelite case. Entirely eliminates outside aerial. Requires two minutes to install. Gives more selectivity. Has capacity of 50 ft. aerial.



No. E1604. **\$1.23**
List, \$2.50.
NET

NEW ICA INSULTENNA

A compact filter type aerial eliminator. Measures only 5x2 1/2x1 in. May be placed out of sight. Has capacity of 75 ft. of ordinary aerial. No connection with electric light current. Easily installed inside radio cabinet.



No. E4223. **\$1.35**
List, \$2.50.
YOUR PRICE

BUILT-IN MODEL

Complete aerial and ground installation built into a standard switch box. Equivalent of 75 ft. aerial. Improves reception.

Easy to install in old or new buildings. Brown bakelite plate 2 1/2" x 4 1/2". With ground clamp, 25 ft. connecting wire and two solderless plugs. Sbps. wt. 2 lbs.

No. E440. **\$1.45**
List, \$2.75.
YOUR PRICE

REX WONDER AERIAL

Takes place of outside aerial. This compact Rex aerial eliminator has the same capacity as a 50 ft. outside aerial.



No. E1813. List, 60c. **33c**
NET

Belden Aerial and AC EXTENSION

A 7 ft. combination radio antenna and extension cord. Selective and practical.



10 Lots, \$3.50. **38c**
No. E1473. NET, EACH

BUD AERIAL FILTER

An ingenious, highly efficient aerial device. Absorbs and thus destroys signals of interfering stations, increasing selectivity and sensitivity. Every set owner will want one.



No. E1605. **78c**
List, \$1.50.
NET

WIZARD AERIAL

A self-contained, ingeniously devised aerial. Quickly installed on midsets, console, portable or automobile sets. No ground necessary on most electric sets. Provision made for ground connection for older sets.



No. E4241. **48c**
List, \$1.00. NET

GOLD WAVE AERIAL



A seven strand triple gold plated aerial. Used on government ships, etc. Will not corrode. 100 ft. coil. Improved reception at a reduced price.

No. E1060. **\$1.35**
List, \$2.00. YOUR PRICE

STA-PUT Aerial

Sticks to anything—anywhere. Instantly installed. Can be hidden from view. Very efficient. Brings in stations as clearly as outside aerial with less interference.



No. E2519. **44c**
List, \$1.00. YOUR PRICE

GLASS LIGHTNING ARRESTER

A new idea in lightning arresters. Made visible so that any shorts or defects caused by overloads can be detected. Made of crystal clear glass.



No. E2552. **35c**
List, 85c.
YOUR PRICE

MASTER FILTERED AERIAL

A compact non-corrosive inside aerial. Can be easily hidden. Single hole mounting. Non-Directional. More selective. Reduces static and interferences and improves tone quality. New low price.



No. E237. List, \$2.00. **98c**
YOUR PRICE

AERIAL MAST FITTINGS

Fits flat or pitch roof. Pulley and base made of iron. For 1/2 in. pipe. Easily mounted. Sturdy construction. Built to last. Wt. 3 lbs.



No. E3330. **53c**
YOUR PRICE

ICAFiltered AERIAL

New type aerial wire. Enameled wire helically wound over insulated straight wire. Filters and amplifies receiver signals.



No. E4209. 90 ft. List, \$1.50. NET **79c**

DuBilier Socket Antenna

Improved light socket aerial. Eliminates antenna, lead-in, lightning arrester. Does away with lightning hazard. Minimizes static.

No. E2745. List, \$1.00. NET **53c**

Eagle ANTENNA Plug

Reduces static and increases selectivity. Very efficient. Draws no current.



No. E2908. List, \$1.00. NET **21c**

Bud Arrester

Efficient protection against lightning hazard. UNDERWRITER APPROVED. Improves reception by rejecting static charges. Sturdy, compact. Approved by underwriters.



No. E1603. **24c**
YOUR PRICE

Under-the-Rug Antenna

Practical and convenient indoor antenna. Easily attached to any radio set. Simply place under rug and connect to set. An aerial—not an aerial eliminator. Combines best features of both including superior receptivity.



No. E8850. **68c**
List, \$1.30. YOUR PRICE

AERIAL AND GROUND ACCESSORIES



UNDERGROUND ANTENNA

A highly efficient aerial with distinct advantages in convenience and improved reception. Unightly wires are eliminated. A hole 18 in. deep and 7 in. wide is all that is needed. Fast becoming the standard installation.

FILTERS STATIC

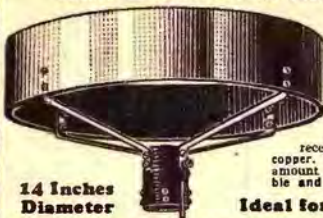
Static reduced tremendously. Delivers filtered ground waves. Improves with time as earth settles against it. Greatly improves hot weather reception as most electrical and static disturbances are filtered out. The Underground Antenna will increase the sensitivity of your receiver. Offered at a greatly reduced price.

No. E8140. List. \$3.00.

YOUR LOW NET PRICE.....

\$1.14

ALL DIRECTION ANTENNA



For Long and Short Wave

An extremely well-constructed and perfected Antenna for all radio sets. Receives radio signals from all directions, giving better volume and greater distance reception. Made of pure copper. Gathers an amazing amount of energy. Neat, durable and compact.

14 Inches Diameter

Ideal for Television

Ideal for short wave and television reception, unbeatable for long wave. Actual size 14 in. diameter. Distortion and interference practically eliminated. Makes possible greater selectivity and clearer reception. Easily and quickly installed on any kind of pole. Shpgs. NET **95c** wt. 8 lbs. No. E8860. EACH...

NEW DX WINDOW AERIAL

New. 5 wire window aerial. Also suitable for porch, attic or closet use. Ideal for superheterodynes, which require aerial of large capacity in small area. Completely weather-proofed. The DX eliminates interference and tunes sharp and clear.

Non-directional nature increases selectivity. The DX is complete, weatherproofed and easily installed. The improved reception made possible by the use of this aerial is surprising. Supplied with brackets and wood screws. No. E8865. List. \$2.50. YOUR PRICE **98c**

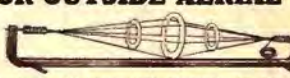
Non-Directional—Powerful No. E8867. Same as shown, but without bracket. A 3-foot cable to be strung anywhere. Ideal for porch, attic or roof. NET **59c**



DX INSIDE OR OUTSIDE AERIAL

A modern inside or outside aerial, completely assembled and ready for use. Especially suitable for "Supers" or other "High Gain" radio sets. May be used anywhere—on sill-back—back of couch—in closet, etc. Absolutely non-directional. A powerful, extremely selective case antenna. Use **Anywhere—Mounts Easily**

Only 31 inches total length, complete with 10 feet of soldered lead-in for instant connection. Complete with bracket. No. E8868. List, \$2.00. NET **98c**



BELDEN AMERICAL AERIAL WIRE

Non-corrosive, 7 strand No. 22 copper wire of lowest dielectric properties and high conductivity. Insures unimpaired reception. Individually enameled before twisting.

No.	Length	List	NET
E1465	75 ft.	\$0.55	\$0.32
E1470	100 ft.	.70	.41
E1466	100 ft.	1.10	.66
E1467	100 ft.	7.00	4.12

Non-corrosive, 7 strand No. 22 copper wire of lowest dielectric properties and high conductivity. Insures unimpaired reception. Individually enameled before twisting.

No.	Length	List	NET
E1468	100 ft.	12	\$1.00 59c
E1469	100 ft.	14	.70 41c

Belden All-Rubber Lead-in Wire

Stranded wire insulated with special rubber compound easily stripped for quick splicing and easy soldering.

No.	Size	Length	NET
E1465	14	50 ft.	\$1.03
E1451	14	250 ft.	5.14
E1452	16	50 ft.	1.14
E1453	16	250 ft.	3.23

Special high quality, low priced indoor aerial wire. Consists of 12 strand No. 34 tinned copper double cotton-covered wire. Ideal for loops, 125 ft. per spool. No. E2581. Brown. No. E2582. Black. NET PER SPOOL **22c** LOTS OF 10 **\$1.96**

COPPER AERIAL WIRE

Finest hard drawn copper wire. An accepted standard for aerials. Best energy collector; minimizes resistance to electrical currents. Available in sizes listed below.

No.	Size	Ft.	NET
E2560	22	50	14c
E2562	22	100	25c
E2563	26	50	9c
E2565	26	100	16c

No.	Size	Ft.	NET
E2566	22	50	19c
E2568	22	100	36c
E2569	26	50	13c
E2571	26	100	24c

No.	Size	Length	NET
E2575	12	100	43c
E2576	14	100	29c

RUBBER COVERED LEAD-IN WIRE

A high grade rubber covered No. 18 lead-in wire. Perfect insulation; no losses; moisture-proof.

No.	Ft.	NET
E3980	25	\$0.11
E3981	50	.20
E3982	100	.38
E3983	1000	3.65

No.	Ft.	NET
E3985	25	\$0.10
E3986	50	.18
E3987	100	.34
E3988	1000	3.30

DX—LIFETIME AERIAL

Fully assembled case antennas. Ideally suited for Tuned Radio Frequency, "Supers" and short waves. Absolutely non-directional. Make possible greatly increased volume and sharper tuning. Static interference minimized. Ruggedly constructed to last indefinitely. Can be used on roof, attic or porch. 25 ft. of rubber-covered lead-in is soldered to aerial. Three sizes.

No. 40	No. 36	No. 26
Exceptionally powerful. Length 60 ft.; 8 spacer rings; contains 300 ft. of enameled copper wire. Shipping weight, 8 lbs. No. E8869. NET \$2.15	Produces great volume. Length 30 ft.; 3 spacer rings; contains 150 ft. of enameled wire. Shipping weight, 7 lbs. Ideal for all sets. No. E8866. NET \$1.75	For short roofs; 5 spacer rings; length 20 feet. Contains 100 ft. of wire. Shipping weight, 5 lbs. No. E8871. NET \$1.35

BELDEN BAKELITE ARRESTER

Sturdy and compact lightning arrester for installation inside or outdoors. Approved by National Board of Fire Underwriters. An unusual value. No. E1460. List, 25c. NET **14c**

ICA Electrostatic Arrestor

Combination lightning and static arrester. Construction affords maximum protection against fire hazards and causes reduction of static. Choke coil and condenser incorporated in the arrester to filter aerial static noises. No. E4224. List, \$1.00. NET **53c**

Combination Aerial and Lead-in Wire

16 strands of No. 30 copper wire, insulated with Gutta Percha. Free-strapping. Non-corrosive. An all-purpose wire for aerial, lead-in and set hookup. No. Length NET E4000 1000 ft. \$3.95 E4001 100 ft. .42 E4002 25 ft. .12 E4003 30 ft. .22

Silvatore Filtered Aerial

Extremely compact aerial which completely reduces A.C. hum and noise. Only four inches in diameter but equivalent to sixty feet of ordinary strapping aerial. Ideal for midwest sets. **Quickly Installed** Easily attached direct to radio by means of a powerful suction cup, furnished. No tools of any kind needed. No visible wires. No. E3216. YOUR PRICE **85c**

RADIO PARTS and ACCESSORY SPECIALS

TUBE SHIELDS
Finest type aluminum tube shields. Carefully constructed to meet functions for which they have been designed.

CHIMNEY TOP FOR NEW TUBES
For new types 56, 57, and 58 tubes. Covers tube entirely. Comes in variety of base, barrel diam., 1 1/2". Height overall, 4 5/8". Shpg. wt. 1 lb. No. E3210. YOUR PRICE, EACH... **14c**

2 PIECE STANDARD
Mounted by means of screw lugs furnished. 5 1/4" high, 1 1/2" diam. Shpg. wt. 1 lb. No. E1420. **12c**
10 Lots... \$1.05

NEW SHORT TYPE 3 PIECE
Designed for Nos. 57, 58 tube series. Double wall of aluminum at neck for greatest efficiency. Diam. of barrel, 1 1/2". Height, 3 3/4". Wt., 1 lb. No. E1421. **11c**
10 Lots... 95c

TYPE 82
Two-piece aluminum for No. 82 rectifier tube. 3/4" inside diam. by 5". Base fits 1 1/2" or 1 3/4" socket. No. E1422. **15c**
10 Lots... \$1.35

NEW HAMMARLUND CHOKES
No. E3944. Style CH-8. Low loss R.F. choke, 8 millihenries. For short wave and especially as grid choke for multi-stage transmitters. Highly efficient D.C. resistance of 70 ohms, distributed capacity of 3 mmf. and current carrying capacity of 125 M.A. List, \$1.10. **53c**
No. E3945. Style RFC-85. Inductance 85 millihenries, capacity 3 mmf., D.C. resistance 115 ohms, current carrying capacity 60 M.A. Size 1 3/4" high, 1 1/2" diam. List, \$2.00. **\$1.18**
No. E3946. Style RFC-250. Inductance 250 millihenries, capacity 2 mmf., D.C. resistance 120 ohms, current carrying capacity 60 M.A. Size 1 1/2" high, 1 1/2" diam. List, \$2.25. **\$1.32**

SPECIAL VALUE 3 GANG CONDENSERS
A remarkable value in quality 3 gang condensers. All of atomized metal construction. .0045 capacity. Built to precise standard. Will give life-time service. Heavily shielded. Available in three types. Large, Small and Bathub. Inexpensive, rugged and accurately built. Three trimmers on each unit. Very suitable for replacements and experimental work. Matched S.C. coil kit to match is listed below. An efficient combination for any type of work. Offered at an unusual low price.

No. E811. Large. 6 1/2" deep, 4 1/2" wide, 3 1/2" protruding shaft. 1 1/2" long.	NET EACH.
No. E810. Small. 4 1/2" deep, 3 1/2" wide, 3 1/2" protruding shaft. 2 1/2" long.	\$1.85
No. E812. Bathub. 6 1/2" deep, 3 1/2" wide, 3 1/2" protruding shaft. 1 1/2" long.	

NEW R. F. COIL SHIELD
Modern sensitive circuits require perfect shielding. This solid copper coil shield and base is ideally suited for shielding R.F. circuits. Made of pure drawn copper, cadmium plated. Diam. 3 in. Height, 3 in. Holes in base for leads. No. E2344. List, \$1.00. YOUR SPECIAL PRICE... **24c**

SUPERHET COIL SHIELD
Base locks to can, forming connection that will not vibrate or come apart. Inside diam. of can, 2 1/2". 2 1/2" overall with base. No. holes in can. Base perforated on bottom and side for leads. No. E1423. NET EACH... **14c**

SHIELDING CANS
Double seamed, radium plated aluminum cans in large quantities equipped with mounting flanges. Used for housing filter blocks, choke coils and power transformers. Two sizes. No. E6851. 4" x 5 1/2" x 4 1/2". No. E6852. 5" x 4 1/2" x 4 1/2". NET EACH... **26c**
10 Lots... \$2.35

LEAD TUBE CAPS
Eliminates tube howls due to microphonic noises. Indispensable on sensitive detector tubes. No. E3218. YOUR PRICE... **9c**

REPLACEMENT AUDIO COIL
Center-tapped for push-pull amplification. Can be used in first and second stage with 227, 171 or 245 tubes. Ratio 1+1. 1 1/4 in. long; outside diameter, 1 7/8 in. Core, 3/8 in. x 1 in. No. E6848. YOUR PRICE... **22c**

Trimmer Condensers
Balancing used extensively on variable condensers as a trimmer to balance out circuits. Maximum capacity, .0062 mfd. No. E5435. YOUR PRICE... **8c**

FROST FILAMENT SWITCH
Very compact—gives positive contact. Simple to mount. No. E3342. List, 30c. NET... **18c**

SPECIAL VALUE RHEOSTATS
Carter Midget
Compact, fine quality. Metal frame; self-cooling. Only 1 1/2 inch diameter. No. E2044. Ohms 1. NET EACH. No. E2045. 30 C.T. **15c** No. E2046

G. I. 20 Ohm Rheostat
Made of solid bakelite. With fixed bakelite panel dial. Adjustable shaft. Chuck strip. Silent. An unusual bargain. No. E5546. NET... **24c**

BAKELITE POINTER KNOB
Attractive, tapered, black bakelite knurled knob. 1/2" bushing. White arrow pointer etched on face. 1 1/4" base. A real value. No. E5443. NET... **4c**

BAKELITE 4 IN.
Genuine molded bakelite dial expertly finished with white reading scale in contrasting white. The large tapered knob permits positive action. For standard 4 in. shaft. Furnished with set screw. No. E6431. NET... **9c**

SWITCH LEVERS
Makes perfect contact. A well constructed high grade switch lever. Metal parts are nickelled. Makes perfect contact and is easy to mount. No. E5446. YOUR PRICE, EACH... **6c**
10 Lots... 55c

NAGEL 0-35 AMMETER
Precision built meter. Tests all types dry cells up to 35 amps. Cannot short battery. Reads both ways. No. E5480. NET EACH... **21c**

DIAL CABLE
Strong wire dial cable, suitable for replacement on any receiver. No. E6805. 5 Ft. Length... **18c**
No. E6806. 50 Ft. Coils... **\$1.47**

FRICITION TAPE
A high grade rubber tape necessary for every serviceman and for use around the house and shop. No. E1015. 2 oz. rolls... **5c**
No. E1016. 4 oz. rolls... **8c**
No. E1017. 8 oz. rolls... **15c**

MATCHED S. C. COIL KIT
Screen grid coil kit consisting of 3 coils matched for trimmers described above. Specially wound coils with lat wire. Size 1 1/2" diam. by 2 1/2" long. Very efficient units priced exceptionally low. No. E6813. Set of 3 coils. SPECIAL PRICE... **65c**

Western Electric—169 Rotary Switch
Used in circuits requiring multiple or parallel connections—from one to forty circuits. For making decade capacity boxes or bridges. Takes a place of a fan switch where multiple capacity switching connections are used. No. E5448. Retail Value, \$5.00. YOUR PRICE... **88c**

WESTERN ELECTRIC SIGNAL CORPS TUBE VT-2
Ruggedly designed tube made by the Western Electric Co. U. S. Signal Corps. Used for both R.F. and A.F. amplification. Also CW and phone transmitting. **5 Watt Output**
Has a power output of 5 watts. Characteristics: Filament 5V. Plate 45-350V. Power Output, 5 watts, standard base. Filament of pure platinum. No. E5456. List, \$12.00. YOUR SPECIAL PRICE... **\$1.45**

A.C. Extension Cords and Plug
High quality extension cords with plugs attached. Very low price. (Use them for many appliance purposes.) No. E4160. 10 Foot Brown Parallel. NET EACH... **19c**
No. E4149. 6 Foot Black Twisted. NET EACH... **13c**

RADIO AND EXPERIMENTAL SPECIALS

U. S. SIGNAL CORPS

Aeroplane Transmitter and Receiving Set



Genuine U. S. Army equipment—offered at a startling low price. Many applications for the amateur and experimenter. Employs 5 tubes—one V. tube for transmitter, one for modulator, and three stages resistance coupled audio. May be used with R.C.A. or Cunningham tubes employing Navy type or old UV base.

BUILT BY WESTERN ELECTRIC

Designed and built by Western Electric for the U. S. Army Signal Corps. Single circuit regenerative tuner used for both transmitting and receiving. Six pole double-throw switch provides rapid change from transmitting to receiving positions. All controls mounted on a heavy bakelite panel. Separate controls for tuner, antenna circuit and grid circuit give exceptionally sharp selectivity. Switch permits use of 2 or 3 audio stages. Hardwood case 10 1/2 in. high, 5 in. deep, with brass hardware. We are proud to be in a position to present this really remarkable value.

No. E9124. YOUR SPECIAL PRICE

\$795

SIGNAL CORPS INTERPHONE SETS

Here are offered parts necessary to install interphone communication between pilot and observer in airplanes. At but a fraction of the original manufacturing cost.

This is a splendid opportunity for the amateur to secure first quality equipment to carry on his experiment at a fraction of the real worth of the apparatus.

Built by Western Electric

Built to rigid U. S. government specifications by the Western Electric Co. This means that highest quality parts are used. Only by reason of a fortunate purchase are we able to pass on to our customers the savings offered here.

No. E9055.



SPECIAL NET EACH

94c

Navy Communicating Microphone and Headset

A sensational value in U. S. Navy equipment. Utah type headphones with rubber cushion caps. Extremely sensitive. Easy to adjust. Mouthpiece and sensitive single button microphone are mounted on an adjustable metal plate, for strapping conveniently to the chest. Equipped with 25 feet of heavy duty cable and plug.

Built to Navy Standards

Designed to U. S. Navy rigid specifications for communication between range finder and gunner, or pilot and observer in planes. A "quiet" button on breast plate shunts out the microphone for listening. Solid construction throughout to withstand weather and rough use. Apparatus offers innumerable uses. Any of component parts worth more than our low price for whole outfit. Amateurs and experimenters will appreciate this unusual

bargain. No. E8900. SPECIAL NET PRICE



\$2.85

Master Voltage Control

Standard type voltage control for A.C. sets. Well constructed. Very efficient. Safe guard your set against burnouts.

No. E2335. List, \$2.90. SPECIAL. **88c**



New I.C.A. Tone Control

A new effective Tone Control for your enjoyment. Vary the tone to your liking, from the resonant deep bass to brilliant, mellow treble.

Makes possible faithful reproduction of both musical instruments and voice tones over entire range of expression, even at a whisper, without any loss of volume. Conveniently formed, simple to operate and easy to install.

No. E4217. List, \$3.50.

SPECIAL NET



\$1.65

New H & H AC Switch

An approved A.C. toggle switch for radio line and lamp fixtures. Very compact. Gives positive contact. Simple to mount. For 110 volt current.

No. E2267. List, 75c. NET. **24c**



Slusser Automatic Coin Attachment

Startling reduction in price. This is the genuine high quality Slusser Nickel Coin Attachment offered at this amazing price. Easily installed in any make of radio. A nickel operates the radio for 6 minutes with free tuning over the entire band.

A Money Maker

Every public place—restaurants, hotels, confectioneries, waiting rooms, etc.—will find the purchase of this coin attachment extremely profitable. It will pay for itself in a very short time. Will bring in profits constantly without care and attention. As many nickels as desired may be dropped in at one time and machine will operate continuously. Orders will be accepted at price quoted until limited supply is exhausted.

ENTIRELY AUTOMATIC

Electrically operated. Simply plug the radio into it. Rejects slugs, pennies and tokens. Easily installed. Includes coin slide chute mechanism, coin receptacle and attachment plug. Order yours now. No. E9077. YOUR SPECIAL PRICE.

\$795

New I.C.A. Super Voltage Regulator

Automatic. Keeps constant voltage. Prolongs tube life, prevents burn-outs and power pack break-downs, and clears up reception. For A.C. or D.C. sets and eliminators on all cycle current. Easy to install.

No. E4245. List, \$3.50. SPECIAL NET



\$1.47

I.C.A. Multi-Speaker Relay

This multi-Speaker Relay enables you to switch from one speaker to another instantly for the purpose of comparison. Useful also to operate several speakers in turn in different locations. Covers 4 speakers for comparison or 2 for multiple operation.

No. E4244. List, \$2.75. SPECIAL NET



\$1.25

New I.C.A. PORTABLE UNIVERSAL COMPANION

An ultra-modern portable radio that can be used anywhere. A seven tube receiver combining life-like reception, distance range and sensitivity. Single dial control. Equipped with volume control and sensitive built-in speaker. Only a short antenna or ground connection is necessary for reception.

OPERATES ON AC—DC—BATTERIES

Answers demand for single radio usable on A.C. or D.C. (110 or 220) and on battery power (6 v. "A" and 135 v. "B"). Rapid change from electric to battery operation by simple insertion of plug.

NEW 233—236—237 TUBES

Circuit is last word in radio. Uses new 6.3 volt screen grid heater tubes and Pentode tubes in push-pull. Requires 2—33, 2—36 and 3—37 tubes. Measures 12 in. x 11 in. x 8 1/2 in.

Special Automatic Cable

For rapid connection and disconnection of the I.C.A. Universal Companion in an automobile.

No. E4246. List Price, \$1.50. YOUR PRICE

88c

SPECIAL PRICE

LESS TUBES **\$25.67**
No. E8245



WIRE - CABLES - CONNECTORS - ACCESSORIES

MAGNET WIRE

Practical, precision-constructed magnet wire for radio and electrical use. Made from the best grade copper wire and insulated with the finest materials obtainable. Neatly wound in single lengths on convenient 1/4 lb. spools. Especially suitable for winding low-loss coils.

1/2 POUND SPOOLS

ENAMELED		DOUBLE COTTON		DOUBLE SILK	
No.	NET	No.	NET	No.	NET
E2475	18 \$0.20	E2466	16 \$0.24	E2489	18 \$0.49
E2476	18 .21	E2467	18 .27	E2490	20 .52
E2477	22 .22	E2468	20 .30	E2491	22 .56
E2478	24 .24	E2469	22 .34	E2492	24 .76
E2479	24 .25	E2470	24 .38	E2493	26 .90
E2480	26 .28	E2471	26 .50	E2494	28 1.11
E2481	28 .32	E2472	28 .54	E2495	30 1.55
E2482	30 .36	E2473	30 .58	E2496	32 1.83
E2483	32 .42	E2474	32 .90	E2497	34 2.60
E2484	34 .51	E2463	34 .96	E2498	36 3.79
E2485	36 .57	E2464	36 1.05		

ALLIED CAN SUPPLY magnet wire in any other type, size, and quantity. Send in your order with a deposit for prompt service at lowest prevailing prices. Quotations made promptly on request.

3 Conductor Mike Cables

Copper tinned conductors. Three conductor brown braided covering. Finest materials.

UNSHIELDED

No. E5438. 5 ft. 6 in. 3 conductor—lugs both ends.

NET. \$2.8c

No. E5439. 10 foot 3 conductor. Lugs both ends. NET, EACH. \$4.5c

SHIELDED WEATHERPROOF

Rubber covered 3-conductor shielded cable with terminals for outside or public address use. Waterproof and weatherproof. Metal braided shield over conductors and an outside jacket of rubber.

No. E3202. 12 foot. Lugs, \$3.80. NET. \$2.12

No. E3203. 25 foot. Lugs, \$7.00. NET. \$4.10

LEAD COVERED CABLE

Used when the speaker is located at a remote distance from the set. Lead sheath acts as a shield.

No. E1495. No. 18 Parallel 2 Cond. 50 ft. \$1.40

No. E1496. No. 18. Single—50 ft. .95

Tinned Copper Shielding



For "B" battery leads, speaker leads, lead-ins, and various chassis connections. Easily soldered.

No. E1497. Diam. 1/8 in. NET, PER FOOT. \$1.76

No. E1498. Diam. 3/16 in. NET, PER FOOT. \$2.65

No. E1499. Diam. 1/4 in. NET, PER FOOT. \$3.82

LITZ WIRE

Finest quality Litz wire for loops and higher grade R.F. and superhet coils. 10 strand No. 38 enameled copper wire. Double silk covered.

No. E2341. 100 ft. 20c
No. E2342. 1 lb. \$2.00
Containing approx. 1100 ft. \$2.25

Bakelite Speaker Extension Plug

Bakelite speaker extension plug for operating headphones or loud speaker at distance from receiver.

No. E4218. 3 lb. \$2.00
NET, EACH. 8c
NET, PER DOZ. 85c

BUS BAR WIRE



Hard drawn copper wire. No. 14 gauge. 2 ft. lengths. 10 lengths. \$1.3c

YOUR PRICE. 13c
No. E2537. Round. 10 lengths. \$1.3c

YOUR PRICE. 13c
PER 100 lengths. \$1.05

Spaghetti Covered Bus Bar Wire

Black Spaghetti covered No. 14 tinned copper wire. 2 1/2 ft. lengths. No. E2538. NET, PER 30' LENGTH. 4c
10 LENGTHS. 35c

BELL WIRE

A high quality bell wire for repair shop and garage. Insulation thoroughly impregnated with tar paraffine. Barberpole color.
No. E1535. 25 foot Coils. NET, EACH. 5c
No. E1536. 1/4 lb. Coils. NET. 8c
No. E1537. 1/2 lb. Coils. NET. 14c

Multi Conductor Cables for Battery, Speaker and Analyzer Connections



No. E5552. 4 Cond. 3 feet long. NET, EACH. 12c
No. E5553. 4 Cond. 5 feet long. NET, EACH. 15c

4 1/2 foot cables

No.	Conductors	NET
E2286	5	18c
E2284	6	20c
E2287	7	32c
E2288	9	46c

10 foot cables

No.	Conductors	NET
E2289	5	65c
E2290	7	93c

Continuous Length Cable—100 Ft. Coils

Made of stranded rubber insulated wires covered with cotton braid. Each conductor in different color complying with R.M.A. code standards. 100 ft. coils.

No.	Conductors	NET
E2460	5	\$3.63
E2461	6	4.12
E2462	7	4.70

Speaker Extension Cords



Standard extension cords of stranded copper wire, rubber covered with rayon outer braid. With connector plugs and phone tips.

No.	Length	NET
E4231	15 ft.	27c
E4232	20 ft.	33c
E4233	50 ft.	63c

Headphone and Speaker Cords



No. E5490. 4 foot single. Spades on one end. Tips on other end.

No. E5491. 4 foot single. Tips both ends. NET, EACH. 8c

DOUBLE PHONE CORDS
No. E5492. Spades on one end. Tips other end.

No. E5493. Phone tips both ends. NET, EACH. 14c

HOOK-UP WIRE

SOLID PULSE-BACK

Simplifies set wiring—a different color for each circuit. To make connections, simply push-back braid. Core consists of double cotton covered, chemically treated with paraffine. Flexible, easy to manipulate. 25 FOOT ROLLS

No.	Color	PER ROLL
E2528	Black	ROLL
E2529	Yellow	ROLL
E2530	Red	ROLL
E2531	Green	14c
E2532	Blue	ROLL

No.	Color	PER ROLL
E2590	Black	ROLL
E2591	Yellow	ROLL
E2592	Red	ROLL
E2593	Green	48c
E2934	Blue	ROLL

100 FOOT ROLLS

Solid push-back wire as described above can be supplied in 1000 foot rolls in any color listed. Order by type, length and color. NET PRICE. PER ROLL. \$3.95

STRANDED PUSHBACK

Same uses and insulation as the solid. Core consists of multi-strand tinned copper hook-up wire. Supplied in five colors.

No.	Color	NET PER ROLL
E2435	Black	ROLL
E2436	Yellow	ROLL
E2437	Red	ROLL
E2438	Green	16c
E2439	Blue	ROLL

No.	Color	NET PER ROLL
E2440	Black	ROLL
E2441	Yellow	ROLL
E2442	Red	ROLL
E2443	Green	58c
E2444	Blue	ROLL

1000 FOOT ROLLS

Stranded push-back hook-up wire in 1000 foot rolls in colors listed. Order by type, length and color. NET, PER ROLL. \$4.45

COLORLED RUBBER HOOKUP WIRE

Stranded tinned copper wire. Rubber insulation. Available in five colors to facilitate set wiring. Flexible. Easily prepared for connection.

No.	Color	NET PER ROLL
E2542	Red	ROLL
E2543	Green	ROLL
E2544	Blue	ROLL
E2545	Black	16c
E2546	White	ROLL

Can be supplied in 100 and 1000 foot coils. Write for prices.

Flexible Spaghetti

Fine Cambridge tubing impregnated with varnish. YOUR PRICE Per 30' Lath. E5330 Black E5331 Yellow E5332 Red E5333 Green 5c

AUTOMOBILE RADIO EQUIPMENT

THE UTAH AUTO "B" POWER UNIT



A new, highly efficient, extremely compact unit for Automobile & 12 Volt Auto battery, changing current to 180 volts. Operates noiselessly, giving an even flow of current. Intermediate voltages easily adjusted. 180 volts. 25 M.A. Size: 8 1/2" high, 1 1/2" long, 2 1/4" deep. Supplied completely housed with tube, built-in relay, and cables. No. E956. List. \$20.00

YOUR PRICE \$1175

New Electronic Auto Radio "B" Eliminator Kit

Complete auto radio "B" eliminator kit, scientifically designed to give maximum efficiency. Compact—Size 2 1/2" x 8" x 7 1/2" long. No hum, no rotary parts, equipped with automatic relay, no adjustments necessary after installation. The new "Automatic Load Delay" circuit insures long life of the mercury vapor rectifier tube as well as the interrupter. Shipped "Knocked down." Easily assembled. Complete assembly chart supplied. Cadmium plated steel container. No. E8149.



List. \$13.25
YOUR PRICE \$793

Janette Auto "B" Power

New constant "B" power unit for every auto radio set. A compact smooth-running unit driven right off the regular A.C. battery, transforming 6 or 12 volts D.C. into "B" current up to 180 volts. Measures 1 1/2 x 5 1/2 inches. Furnished complete with voltage divider. Shipping weight, 22 lbs. No. E8286.



List. \$32.00
YOUR PRICE \$1882

Auto Radio Suppressors

For suppressing noise in Auto radio installations, 25000 ohm resistor types. No. E2323, Distributor type. No. E2329, Plug type.

List. 40c
NET EACH \$22c

SUPPRESSOR KITS

For 4, 6 and 8 cylinder cars
No. E2345, 4 cylinder car 4 plug, 1 distributor type. NET \$1.06
No. E2346, 6 cylinder car 8 plug, 1 distributor type. NET 1.48
No. E2347, 8 cylinder car 8 plug, 1 distributor type. NET 1.88

AUTO "B" BATTERY ELIMINATOR

The Carter Generator is one of the most efficient constant type auto "B" eliminators on the market. This unit develops surprising volume and fine clear-cut reception, bringing in more stations with less interference. Provides a constant flow of "B" power at all times, at low battery drain and great output. Equipped with double filter system, eliminating noise.

Generator Motor Combined

The Generator is a combined generator and motor complete in one unit, operated from the storage battery of the car, but requiring the lowest amperage of any eliminator on the market. No parts to wear out or replace. Install and forget it. Space required for mounting only 4 1/2" x 3" x 8 1/2". No. E8155. 4680A. 180 Volts "A" battery drain 2.2 amps. 30 M.A.

Note: We can supply immediately, all special Carter Generators for any car or motor system. Write us for information and prices. Special types available for portable P.A. systems.

CARTER GENERATOR



Exposed View

In Mounting Case

RETAIL EACH \$21.00

No. E8166. 4635A. 135 Volts. 30 M.A. Drain 1.7 amps. "A" battery. **YOUR PRICE EACH \$1235**

MALLORY-ELKON Auto "B" Eliminator

"A tested and proved "B" power unit to make any standard auto set all-electric. Operates from 6 Volt Auto power, changing current up to a maximum of 180 volts. Efficient, compact, noiseless, easily installed, no attention necessary. Mallory-Elkon can be supplied for any Auto Radio. Unit can be connected to another set by interchange of Elkonodes or resistors, at small cost. If the eliminator you set needs is not listed, specify type of set and model when ordering.



AN ELIMINATOR FOR EVERY AUTO SET

Set	Elim. Type	Set	Elim. Type
Atwater Kent \$1	5	Magnette 110	5
Auto-Lite 82	5	Motrolia 5-T-71	6
Bosch 9-20	5-P	Motrolia 7-T-38	6
Colonial 53	5	Motrolia 6 tube	6
Colonial 54	4	Motrolia 6 tube	6
Crosley 90	4	Philco 3	6
Crosley 91	3	Philco 7	3-P
Crosley 92	6	Philco 7	5-P
Delco 3010	5	Spartan 40	6
Gibllan	2	Universal 70	6

No.	Type	Watts	180 V.	120 V.
E8460	2	35	30	45
E8461	6	5	30	40
E8462	5-1	5	30	40
E8463	3	4.5	25	33
E8464	3	3	20	27
E8465	3-1	3.6	20	27
E8466	2	2	15	20
E8467	1	2.2	12	16

Retail, \$19.95
NET EACH \$11.73
* Require Mallory "A" code
No. E3190. NET \$2.06

VIZOR-TENA

A combination auto radio aerial and sun visor. All the efficiency of an auto top type aerial, combined with complete protection from the sun on all sides with perfect vision of the road. Fits near the roof where signal strength is greatest. Made of finest grade Art Leather, with all metal parts nickel plated. For best results use in pairs. No. E8960. List. \$2.75.

YOUR PRICE EACH \$162

DX AUTO AERIAL RUNNING BOARD TYPE

Solid zinc plate, 40 inches long by 4 1/2 inches wide, drilled, ready for quick installation. Fits close under running board, completely out of sight. Complete with 10 ft. lead-in wire soldered to zinc plate, bolts, insulators, washers and nuts. Shipping wt., 5 lbs.

No. E8870. List. \$1.95.
YOUR PRICE \$113

AU-TENNA—AUTO AERIAL

A highly effective auto aerial with exceptional selectivity and volume absorption. Fully grounded, proof, insulator against rain. Sedan type—1 colors. E8120. Light Grey. E8121. Dark Grey. E8122. Light Brown. E8123. Dark Brown. List. \$2.75. NET EACH \$147



CARTER AUTO AERIALS

Auto aerials for installation underneath car. High pick-up. Selectivity and ample volume assured. Type A.C. hangs underneath car close to radio set as illustrated. Type B.C., not illustrated, hangs underneath car from front to rear axles. Both fitted with chains. No. E8995. B.C. NET EACH \$88c

AUTO GENERATOR SILENCER

Essential to efficient operation of auto generator sets. Eliminates interference due to weak plugs. No. E2342. 1 mfd. NET 48c
No. E2343. .5 mfd. NET 42c

GOERLICH AUTO HEATERS

LION MODEL HOT WATER HEATER WITH ELECTRIC MOTOR

A high quality hot water heater to fit all cars, large and small. Large size radiator provides ample heating surface. Improved electric motor, powerful and efficient, with self-aligning oilless bearings. Consumption less than two amperes. Deflector may be easily adjusted to direct the hot air to any point. The die cast face plate and deflector are of attractive modernistic design. In two-tone non-rusting finish harmonizing with the interior of the most cars. All material used is copper or brass. Heater braced to avoid any strain on water connections. A full sized heater at a surprisingly low price. No. E8190.

YOUR SPECIAL LOW PRICE \$831

VICTOR MODEL WITH AIR MOTOR

Hot water heater for smaller cars. Especially low priced to appeal to motorists who could not previously afford to buy a heater. Equipped with the new air motor, operated by vacuum from the intake manifold, eliminating all drain on the car battery. Highly durable. No attention necessary. Centrifugal action keeps fan motor operating with no stop during car acceleration. Speed may be varied by control switch. The "Victor" has a very large heating capacity. Heating units are all brass and copper. Easily installed in all cars. Shpg. wt., 14 lbs. No. E8181.
YOUR PRICE \$510



REPLACEMENT VOLUME CONTROLS

CARTER VOLUME CONTROLS TYPE RC REPLACEMENTS

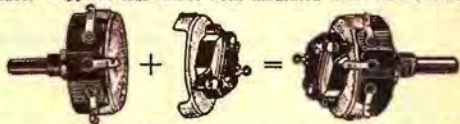
The Carter quality volume controls listed below are of the most popular ohm values for standard sets. If you do not know resistance of the control required send in your order with the name of the manufacturer and set model, and proper control will be supplied. All controls without the A.C. switch. If switch is needed, it may be ordered separately. Quickly and easily installed by removing cover. Abbreviations in listing: C—Clockwise taper; CC—Counter Clockwise taper. All the rest have uniform taper.

Cat. No.	Carter	Ohms	Cat. No.	Carter	Ohms
E3300	RC-10	10	E3315	RC-6M	8000
E3301	RC-20	20	E3316	RC-10MT	10000C
E3302	RC-30	30	E3317	RC-10M	10000
E3303	RC-50	50	E3318	RC-15M	15000C
E3304	RC-100	100	E3319	RC-20M	20000C
E3305	RC-200	200	E3320	RC-25M	25000
E3306	RC-400	400	E3321	RC-25MT	25000C
E3307	RC-600	600	E3322	RC-30M	30000C
E3308	RC-800	800	E3323	RC-50M	50000
E3309	RC-1M	1000	E3324	RC-75M	75000C
E3310	RC-2M	2000	E3325	RC-100M	100000C
E3311	RC-3M	3000	E3326	RC-200M	200000
E3312	RC-4M	4000	E3327	RC-250M	250000C
E3313	RC-5M	5000	E3328	RC-500M	500000C
E3314	RC-5MT	5000C	E3329	RC-1MG	1000000C

List Each, \$1.00.
YOUR PRICE, **48¢**
EACH
No. E3299. A.C. Switch for Above.
List, 75¢.
YOUR PRICE, **24¢**

CLAROSTAT AD-A-SWITCH WIRE WOUND VOLUME CONTROLS

A series of Clarostat Wire Wound Controls designed to fill the jobber's, dealer's and serviceman's demand for reliable wire wound single controls which can be used either with or without switches as required. The plain dust-guard coverplate supplied with these controls can be pried off and a switch type dust-guard coverplate can be snapped in its place. Supplied less knob, with insulated shaft and bushing.



Cat. No.	Ohms	Cap. M.A.	Description	NET EACH
E1850	50	250	Standard Pot.	47¢
E1851	100	180	Standard Pot.	
E1852	200	125	Standard Pot.	
E1853	300	100	Standard Pot.	
E1854	400	85	Standard Pot.	
E1855	500	80	Standard Pot.	
E1856	750	65	Standard Pot.	
E1857	1000	55	Standard Pot.	
E1858	1500	40	For ant. and "C" bias.	
E1859	2000	40	Standard Pot.	
E1860	2000	25	For untuned Ant.	52¢
E1861	2000	25	For "C" bias	52¢
E1862	3000	30	Standard Pot.	55¢
E1863	3000	20	For ant. and "C" bias.	52¢
E1864	3000	20	For "C" bias	52¢
E1865	5000	25	Standard Pot.	55¢
E1866	5000	17	For ant. and "C" bias	55¢
E1867	5000	27	For "C" bias control.	55¢
E1868	7500	20	Standard Pot.	55¢
E1869	7500	14	For ant. and "C" bias	55¢
E1870	7500	14	For "O" bias	
E1871	10000	17	Standard Pot.	60¢
E1872	10000	12	For ant. or R.F. coil	
E1873	10000	12	For ant. and "C" bias.	60¢
E1874	10000	12	For "C" bias	
E1875	10000	12	For S.G. voltage	55¢
E1876	15000	14	Standard Pot.	
E1877	15000	11	For ant. and "C" bias.	60¢
E1878	15000	11	For S.G. voltage.	
E1879	20000	12	Standard Pot.	64¢
E1880	20000	10	For "C" bias	
E1881	25000	11	Standard Pot.	64¢
E1882	30000	11	Standard Pot.	69¢
E1883	40000	10	Standard Pot.	69¢
E1884	50000	9	Standard Pot.	78¢

No. E1885.
Switch Type Cover Plate.
YOUR PRICE **29¢**

CARTER MIDGET RHEOSTATS AND POTENTIOMETERS



Wire Wound One piece cadmium plated steel. Non-corrosive high resistance wire used. Very compact. Positive contact, smooth action. Dissipates 1 watt. Windings uniform and accurate. With black pointer knob.

HIGH RESISTANCE CARBON TYPE

Compact, employing new resistance material. "Resistite." Dissipates 2 watts. Built of red cadmium plated steel shell frame.

No.	Ohms	List Each.
E1512	2000	38¢
E1513	3000	
E1514	4000	
E1515	5000	
E1516	10000	
E1517	15000	
E1518	25000	
E1519	30000	
E1520	50000	
E1521	100000	
E1522	200000	
E1523	250000	
E1524	500000	
E1525	1000000	

FROST VOLUME AND TONE CONTROLS



Rugged, moderately priced, wire wound volume control. Tightly covered metal shell encloses the unit completely. Complete positive contact at all times, due to double wiping contact construction. Smooth operation.

Composition element, bakelite case with metal dust-proof back cover, furnished either with or without a snap switch. Has full wiping contact between the movable member and the hard smooth composition resistance element.

No.	Less Switch.	Resis. with A.C. Switch	No.	Less Switch.	Resis. with A.C. Switch
E3553	200	E3561	E3569	1000	E3580
E3554	400	E3562	E3570	2000	E3581
E3555	1000	E3563	E3571	3000	E3582
E3556	2000	E3564	E3572	5000	E3583
E3557	3000	E3565	E3573	10000	E3584
E3558	5000	E3566	E3574	15000	E3585
E3559	10000	E3567	E3575	20000	E3586
E3560	25000	E3568	E3576	50000	E3587
			E3577	100000	E3588
			E3578	250000	E3589
			E3579	500000	E3590

Less Switch. With Switch.
NET EACH. NET EACH.
50¢ 70¢
No. E3591. DUAL 10,000-50,000 ohms—1" shaft.
No. E3592. DUAL as above, 2" shaft.
YOUR PRICE, **\$1.25**
EACH

Less Switch. With Switch.
NET EACH. NET EACH.
42¢ 62¢
No. E3593. DUAL—10,000-25,000 ohms.
YOUR PRICE, **\$1.25**

CLAROSTAT TONE CONTROLS

TYPE TC-1 PORTABLE TC-4 For Panel Mounting

Clarostat tone control which can be added to existing receivers without soldering connection or mounting on panel. Provided with neat case with felt base, a set of adapters, and flexible leads for easy installation. For sets or amplifiers with one or two power tubes. A desirable and convenient accessory. With knob.
No. E1885.
List, \$2.35.
YOUR PRICE **\$1.35**

Constructed for mounting on panel using 3/8" or 1/2" holes. All bakelite and metal case of 1 1/2" diam. Projects 1" back of panel. With knob, but without adapters, or flexible leads.
No. E1887. List Price, \$1.80.
YOUR PRICE **\$1.03**

Same as Type TC-2 but has three cover instead of bakelite and metal, and projects 3/4" back of panel. Without knob, adapters or flexible leads.
No. E1888.
List Price, \$1.50.
YOUR PRICE **88¢**

AMPERITE AUTOMATIC SELF ADJUSTING RHEOSTAT

Permits efficient operation of vacuum tube filaments. STANDARD FOR SET BUILDERS.

No. E1880. 4-25 amp. For 301A, 300A, and 340 tubes.
No. E1881. 112-.5 amp. For 112 and 171 tubes.
No. E1882. 622-.125 amp. For 222 tubes.
No. E1883. 4 v.-159-.06 amp. For 299 tubes.
No. E1884. 4 v.-189-.06 amp. For 299 tubes.
No. E1885. 120-.125 amp. For 220 and 201B tubes.
No. E1886. 3A-.75 amp. For 230 amp. tubes.
No. E1887. 4A-.75 amp. For 230 amp. tubes.
No. E1888. 6A-.75 amp. For new 233 tubes.
No. E1889. 631. For new 231 tubes.
No. E1890. 6-33. For new 233 tubes.
List, \$1.10. YOUR PRICE, EACH **64¢**

CARBON REPLACEMENT RESISTORS



KNIGHT CARBON RESISTORS

Absolutely noiseless resistors with a permanent resistance value. Not affected by temperature changes or moisture. Tinned pilot leads for ease of soldering. Particularly adapted where a non-inductive comparatively high resistance unit of fairly high current carrying

capacity is required. Knight carbonized resistors have been designed by skilled engineers to remain constant under the most severe tests. A 100% overload for 2500 hours shows less than 5% variation. Resistance is independent of test voltage and frequency. Variations from less than 1 volt to over 500 volts shows less than 2% variation in resistance readings. Available in the following sizes:

.5 WATT		1 WATT		2 WATT	
No.	Ohms	No.	Ohms	No.	Ohms
No. E1720	200	No. E1744	100	No. E1765	100
No. E1721	300	No. E1745	200	No. E1766	200
No. E1722	500	No. E1682	400	No. E1830	400
No. E1723	750	No. E1746	600	No. E1787	500
No. E1724	1,000	No. E1747	750	No. E1788	750
No. E1725	1,250	No. E1683	1,000	No. E1789	1,000
No. E1670	1,500	No. E1684	1,250	No. E1831	1,250
No. E1726	2,000	No. E1685	1,500	No. E1832	1,500
No. E1671	2,500	No. E1749	2,000	No. E1833	2,000
No. E1727	3,000	No. E1750	2,500	No. E1770	2,500
No. E1672	4,000	No. E1687	3,000	No. E1834	3,000
No. E1728	5,000	No. E1751	3,500	No. E1771	3,500
No. E1673	6,000	No. E1688	4,000	No. E1835	4,000
No. E1729	7,500	No. E1689	4,500	No. E1772	4,500
No. E1674	8,000	No. E1690	5,000	No. E1836	5,000
No. E1730	10,000	No. E1691	5,500	No. E1773	5,500
No. E1731	12,000	No. E1752	6,000	No. E1837	6,000
No. E1732	15,000	No. E1692	6,500	No. E1838	6,500
No. E1675	17,500	No. E1693	7,000	No. E1839	7,000
No. E1733	20,000	No. E1694	7,500	No. E1774	7,500
No. E1676	30,000	No. E1755	8,000	No. E1840	8,000
No. E1677	40,000	No. E1756	9,000	No. E1841	9,000
No. E1734	50,000	No. E1695	10,000	No. E1775	10,000
No. E1678	60,000	No. E1757	100,000	No. E1842	10,000
No. E1735	75,000	No. E1696	150,000	No. E1776	15,000
No. E1736	100,000	No. E1758	200,000	No. E1843	20,000
No. E1679	150,000	No. E1759	300,000	No. E1844	30,000
No. E1737	200,000	No. E1760	400,000	No. E1777	40,000
No. E1680	300,000	No. E1761	500,000	No. E1845	50,000
No. E1738	500,000	No. E1762	1 meg.	No. E1781	100,000
No. E1739	750,000	No. E1763	2 meg.	No. E1782	200,000
No. E1740	1 meg.	No. E1697	3 meg.	No. E1783	300,000
No. E1741	2 meg.	No. E1698	5 meg.	No. E1784	500,000
		No. E1699	7 meg.	No. E1846	750,000
		No. E1764	9 meg.	No. E1782	2 meg.
			10 meg.	No. E1783	3 meg.
				No. E1784	5 meg.
				No. E1845	7 meg.
				No. E1846	9 meg.
				No. E1847	10 meg.

Per Doz., 89c.
NET, EACH.

8c

Per Doz., 95c.
NET, EACH.

9c

Per Doz., \$1.70.
NET, EACH.

15c

POPULAR CARBON RESISTOR KITS

KNIGHT 1 WATT RESISTORS

The kits listed below include an assortment of the most popular capacities used by leading set manufacturers. Servicemen and builders will find it highly advantageous to have these kits available on all jobs. A job serviced with the dependable Knight Carbonized Resistors, is a job well done.



KIT OF 24 RESISTORS

1-200 ohms 1-6,000 ohms 1-60,000 ohms
1-400 ohms 1-1,000 ohms 1-60,000 ohms
1-500 ohms 1-1,250 ohms 1-75,000 ohms
1-800 ohms 1-15,000 ohms 1-100,000 ohms
1-1,000 ohms 1-20,000 ohms 1-250,000 ohms
1-2,000 ohms 1-25,000 ohms 1-300,000 ohms
1-3,000 ohms 1-30,000 ohms 1-1 meg.
1-4,000 ohms 1-40,000 ohms 1-2 meg.

No. E2261
YOUR PRICE, PER KIT..... **\$2.05**

KIT OF 48 RESISTORS

1-300 ohms 2-5,000 ohms 2-50,000 ohms
2-400 ohms 1-6,000 ohms 1-60,000 ohms
2-500 ohms 1-8,000 ohms 1-75,000 ohms
1-600 ohms 2-10,000 ohms 1-100,000 ohms
1-800 ohms 1-12,500 ohms 2-250,000 ohms
2-1,000 ohms 1-15,000 ohms 2-500,000 ohms
2-1,500 ohms 1-17,500 ohms 1-750,000 ohms
2-2,000 ohms 2-20,000 ohms 1-1 meg.
1-2,500 ohms 2-25,000 ohms 1-1 1/2 meg.
1-3,000 ohms 1-30,000 ohms 2-2 meg.
2-4,000 ohms 1-40,000 ohms 1-3 meg.

No. E2262
YOUR PRICE, PER KIT..... **\$4.05**

KNIGHT 2 WATT RESISTOR KITS

KIT OF 24 RESISTORS

Same capacities as 24 Resistor Kit above.
No. E2263
YOUR PRICE, PER KIT..... **\$3.15**

KIT OF 48 RESISTORS

Same capacities as 48 Resistor Kit above.
No. E2264
YOUR PRICE, PER KIT..... **\$5.95**

New Low Resistance Auto Suppressors

New and radical improvement in suppressors for auto radio; very effective in eliminating motor spark and distributor noises. Fits practically any car. For Ruick, distributor type is used by mounting distributor head.



500 OHM WIRE WOUND

Wire wound and non-inductive. Does not retard speed of car. Quickly attached. In two types, very reasonably priced.

NET EACH **27c**
No. E4958. Plug type.
No. E4959. Distributor type.

SUPER AKRA-OHM

Wire Wound Resistors



Accurate wire wound resistors. Non-inductive. Low distributed capacity. Moisture proof. Accuracy 1% 1 watt rating.

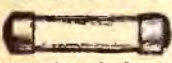
No.	Ohms	List	NET
No. E6450	6,000	\$1.25	\$0.85
No. E6451	10,000	1.50	1.03
No. E6452	25,000	1.50	1.03
No. E6453	50,000	1.50	1.03
No. E6454	100,000	2.00	1.31
No. E6455	200,000	2.50	1.71
No. E6456	250,000	2.75	1.88
No. E6457	400,000	3.50	2.40
No. E6458	500,000	4.00	2.74
No. E6459	1,000,000	5.00	3.43

RCA VICTOR VOLTAGE DIVIDER



Made of best grade resist-
ance wire, wound on a refractory tube and coated with a porcelain enamel which is baked on. Total of 4,325 ohms. Tapped at 300, 700, 1,300, and 2,025 ohms. For Victor 245 amplifier and all sets using 245 tubes.
No. E1540.
YOUR PRICE **65c**

SPECIAL GRID LEAKS



A glass enclosed grid leak of good quality and remarkably accurate. A fine value at the price quoted.

Meq. NET EACH

No. E2930	.1
No. E2929	.25
No. E2901	.5
No. E2902	1.
No. E2903	2.
No. E2904	3.
No. E2905	5.

RESISTOR MOUNTING

No. E5426. Single resistor mounting.
YOUR PRICE, EACH **9c**

Eagle Plunger Leaks



An adjustable grid leak with a range from 0 to 50 megohms. Adaptable to all standard mountings. Screw adjustment.
No. E2906. List, 75c.
YOUR PRICE **28c**

AUTO RADIO SPARK SUPPRESSORS



For suppressing noises in AUTO radio installations. 25,000 ohm resistors. Distributor and spark plug types.
No. E2329. Plug type.
No. E2328. Distributor type.
YOUR PRICE, EACH **22c**

SUPPRESSOR KITS

Complete suppressor kits for 4, 6, and 8 cylinder cars. Greatest possible resistance to R.F. current combined with lowest possible resistance to D.C.

No. E2345. 4 cylinder car. 4 plug, 1 distributor type. EACH	\$1.08
No. E2346. 6 cylinder car. 6 plug, 1 distributor type. EACH	\$1.48
No. E2347. 8 cylinder car. 8 plug, 1 distributor type. EACH	\$1.73

STANDARD

New Low Prices



Metallized

RESISTORS

For Every Radio Purpose



Furnished with 1/2 in. wire leads. Noiseless operation. Accurately tested. The standard quality resistor.

TYPE "F" METALLIZED RESISTORS

I. R. C. Resistors have established a reputation for efficiency and long life. Resistance unit is a glass rod metallized with a special resistance material. Contained in a special grade ceramic tube, moisture-proof, of high heat conductivity and high mechanical strength. Engineers, servicemen and set builders have found that I. R. C. resistors are accurate and reliable.

Precision Resistors



I. R. C. wire wound resistors. Meet most exacting demands of accuracy and durability. High insulation qualities, and great mechanical strength. Wound in 8 sections. Dimensions: 2 1/2" x 5/8". Rating: Below 350,000 ohms-1 watt. Above 350,000 ohms-600 volts Max. With binding post screw and nut terminals.

I WATT

No.	Ohms	No.	Ohms
E45567	100	E45701	75,000
E45568	250	E45711	100,000
E45569	500	E45721	150,000
E45570	1,000	E45731	150,000
E45571	1,500	E45741	200,000
E45572	2,000	E45751	250,000
E45573	2,500	E45761	300,000
E45574	3,000	E45771	400,000
E45575	3,500	E45781	500,000
E45576	4,000	E45791	1 meg.
E45577	5,000	E45801	2 meg.
E45578	6,000	E45811	3 meg.
E45579	7,000	E45821	4 meg.
E45580	8,000	E45831	5 meg.
E45581	10,000	E45841	6 meg.
E45582	12,500	E45851	7 meg.
E45583	15,000	E45861	8 meg.
E45584	20,000	E45871	9 meg.
E45585	25,000	E45881	10 meg.
E45586	30,000		

List. 30c. NET. EACH

2 WATTS

No.	Ohms	No.	Ohms
E45891	50	E46081	12,500
E45892	100	E46091	15,000
E45893	250	E46101	20,000
E45894	500	E46111	25,000
E45895	1,000	E46121	30,000
E45896	1,250	E46131	75,000
E45897	1,500	E46141	100,000
E45898	1,750	E46151	150,000
E45899	2,000	E46161	200,000
E45900	2,500	E46171	250,000
E45901	3,000	E46181	300,000
E45902	3,500	E46191	400,000
E45903	4,000	E46201	500,000
E46021	5,000	E48211	1 meg.
E46031	6,000	E48221	2 meg.
E46041	7,000	E48231	3 meg.
E46051	8,000	E48241	4 meg.
E46061	9,000	E48251	5 meg.
E46071	10,000		

List. 40c. NET. EACH

No.	Ohms	List	NET EACH
E2833	1	\$1.50	
E2834	5	1.60	\$1.03
E2835	10	1.25	
E2836	50	1.25	
E2837	100	1.25	
E2838	200	1.25	
E2813	500	1.25	85c
E2814	1,000	1.25	
E2855	1,000	1.25	
E2815	5,000	1.25	
E2816	10,000	1.50	
E2821	20,000	1.50	
E2817	25,000	1.50	\$1.03
E2822	30,000	1.50	
E2818	50,000	1.50	
E2823	75,000	1.50	
E2819	100,000	2.00	\$1.36
E2824	150,000	2.25	1.54
E2820	200,000	2.50	1.71
E2790	250,000	2.75	1.88
E2791	300,000	3.00	2.06
E2839	400,000	3.50	2.40
E2792	500,000	4.00	2.70

3 WATTS

No.	Ohms	No.	Ohms
E4626	100	E4638	75,000
E4627	500	E4639	100,000
E4628	1,000	E4640	150,000
E4629	2,000	E4641	200,000
E4630	3,000	E4642	250,000
E4631	4,000	E4643	300,000
E4632	5,000	E4644	400,000
E4633	10,000	E4645	500,000
E4634	15,000	E4646	1 meg.
E4635	20,000	E4647	2 meg.
E4636	25,000	E4648	3 meg.
E4637	30,000	E4649	4 meg.
E4638	50,000	E4650	5 meg.

List. 50c. NET. EACH

FREE To Buyers of I. R. C. Resistors

Resistor-Replace-ment Guide

Gives detailed information on resistors used in nearly all leading sets, showing resistance, color of 10 or more I. R. C. Metallized Resistors. Also available at price quoted.

NO. E2795. YOUR PRICE. \$1.00

Resistor Color Code Chart

FREE with every order of 3 or more I. R. C. Metallized Resistors. Indicates the value of any resistor in accordance with R. A. color code. Reversely, indicates color combination of any given resistance.

E2794

TYPE WW 2

Wound in 8 sections. Dimensions: 2 1/4 in. x 3/4 in. Rating: Below 1,000,000 ohms-1 watt; above 1,000,000 ohms-1,000 volts. Max. Binding post screw and nut terminals. Tolerance 1% of marked resistance value. Sectional winding permits a non-inductive winding of low distributed capacity.

No.	Ohms	List	NET
E2774	500,000	\$ 4.00	\$2.74
E2775	750,000	4.50	3.09
E2776	1,000,000	5.00	3.43
E2777	1,500,000	7.50	5.14
E2778	2,000,000	10.00	6.86
E2779	2,500,000	12.50	8.57

POWER WIRE WOUND RESISTORS



I. R. C. power resistor units consist of accurately spaced winding of resistance wire with low temperature coefficient, wound on non-moisture absorbing ceramic core of high mechanical strength. Close standard resistance tolerances make for applications requiring accuracy. Tinned wire leads for easy soldering.

TYPE "PB"—5 WATTS—1 3/4 IN. LONG

No.	Ohms	No.	Ohms	No.	Ohms
E2600	1	E2606	200	E2612	2
E2601	5	E2607	500	E2613	3
E2602	10	E2608	1,000	E2614	4
E2603	25	E2609	2,000	E2615	5
E2604	50	E2610	3,000	E2616	6
E2605	100	E2611	5,000	E2617	7

List. Each. 50c. YOUR PRICE, EACH

TYPE "PC"—10 WATTS—2 IN. LONG

No.	Ohms	No.	Ohms	No.	Ohms
E2618	1	E2625	300	E2632	7,500
E2619	5	E2626	500	E2633	10,000
E2620	10	E2627	1,000	E2634	12,500
E2621	25	E2628	2,000	E2635	15,000
E2622	50	E2629	3,000	E2636	20,000
E2623	100	E2630	5,000	E2637	25,000
E2624	200	E2631	7,500	E2638	30,000
E2625	300				

List. Each. 85c. YOUR PRICE, EACH

TYPE "PD"—15 WATTS—3 IN. LONG

No.	Ohms	No.	Ohms	No.	Ohms
E2655	1	E2663	500	E2671	12,500
E2656	5	E2664	1,000	E2672	15,000
E2657	10	E2665	2,000	E2673	20,000
E2658	25	E2666	3,000	E2674	25,000
E2659	50	E2667	5,000	E2675	30,000
E2660	100	E2668	7,500	E2676	40,000
E2661	200	E2669	10,000		
E2662	300				

List. Each. 70c. YOUR PRICE, EACH

NEW HANDY IRC RESISTOR KITS

CERTIFIED KIT NO. 1

Contains one each of the following values of 1-watt Metallized Resistors:

OHMS: 500; 1,000; 2,000; 5,000; 10,000; 15,000; 20,000; 25,000; 50,000; 60,000; 70,000; 100,000; 100,000; 200,000; 250,000; 500,000.

MEGOHMS: 1.0; 1.5; 2.0; 3.0.

NO. E2798. List. \$6.00. YOUR PRICE, \$7.50

CERTIFIED KIT NO. 2

One each of the following in 2-watt Metallized Resistors:

OHMS: 500; 1,000; 2,000; 5,000; 10,000; 15,000; 20,000; 25,000; 50,000; 60,000; 70,000; 100,000; 100,000; 200,000; 250,000; 500,000.

MEGOHMS: 1.0; 1.5; 2.0; 3.0.

NO. E2797. List. \$6.00. YOUR PRICE, \$7.50



NEW HANDY GRID BIAS KIT

Designed especially for grid bias resistor replacement work. Also as grid suppressors in R.F. circuits, etc. Values in ohms:

1 WATT: 450; 1,000; 2,000; 10,000; 20,000. 2 WATT: 225; 1,000; 1,500; 5 WATT: 750; 1,450.

NO. E2796. List. \$3.70. YOUR PRICE, \$2.15

I. R. C. Auto Radio Suppressor Kit

I. R. C. Suppressors incorporate all advantages and special features of I. R. C. Metallized Resistors. Designed to fit practically all makes of cars. Of long life, moisture-proof, shock-proof. Fire-proof and heat resistant. Will hold capacity to eliminate all spark plug noise.

No. E2859. M-S Spark Plug.
No. E2860. M-D Distributor.
No. E2861. M-C Cable Type.

List. 50c. YOUR PRICE, EACH



WARD LEONARD VOLTAGE DIVIDERS

GENUINE WARD-LEONARD

This page contains a listing of genuine Ward Leonard Vitrohm Dividers for standard receivers. Each unit is a practical duplicate, in size and electrical characteristics of the divider which it is intended to replace. Ward Leonard Voltage Dividers are of the highest quality. Not to be confused with the number of un dependable types being released on the market.



VITROHM DIVIDERS


Ward Leonard Vitrohm Voltage Dividers are vitreous enamelled. This feature insures rapid conduction of heat from the resistive element, greatly increasing watt capacity of the unit. Vitrohm construction is so efficient that temperature rise of the unit is to withstand high defelency in any receiver.

Mfg. and Model	Total Ohms Resistance	Cat. No.	NET
ARGUS			
B195	5133	E7798	\$2.35
BOSCH			
28, 29 & 825	10000	E7800	.88
	2000	E7801	.59
48 & 49	4400	E7802	.88
54 D.C.	22	E7803	.59
58	5130	E7804	.88
60 & 61	4700	E7805	1.03
	9000	E7799	1.03
62 & 65	4250	E7806	.88
BRANDES			
(Kolon) K2, K20, K22, K25, K27, 1120		E7785	1.06
K21 & K23	20000	E7786	2.06
K43	2380	E7787	1.32
K44	2650	E7788	.87
K5	2650	E7789	.87
B10	2850	E7790	.85
BREMER TULLY			
8-20 & 8-21	13400	E7807	1.18
6-40	16720	E7808	1.18
CLEARTONE			
13000		E7794	1.72
COLONIAL			
28	15500	E7820	1.76
31 & 32 D.C.	7200	E7821	1.09
32	94.9	E7822	.65
		E7828	1.18
CROSLLEY			
Band Box 602	540	E7832	.65
	3000	E7833	.88
	140	E7834	.78
DAYFAN			
Natator	8350	E7795	1.03
EDISON			
R1, RA & C	12500	E7796	1.35
	1500	E7797	.73
ERLA			
R1	17680	E7809	1.76
	55	E7810	.65
EVEREADY			
30-40	175	E7811	.59
(Nat. Carbon)	1000	E7812	.59
	2500	E7813	.73
	3500	E7814	.73
FANSTEEL			
(Balkeitt) B7 & B9	21000	E7815	1.91
A-B-135 & 180	10800	E7816	1.03
C	4370	E7817	.73
A-B-6-135	9500	E7818	.88
FEDERAL			
79-00	2635	E7823	1.41
79-070	29000	E7824	1.32
79-080	4	E7825	.59
FREED-EISEMAN			
457	2350	E7826	.88
	4000	E7827	.88
	1750	E7828	.73
470	3500	E7830	1.03
NR-80, NR-85	2320	E7831	.88
411	5250	E7832	1.03
411	7.5	E7833	.65
78-8	40000	E7837	2.02
FRESHMAN			
G	10950	E7839	1.26
N	21900	E7840	2.06
H	3300	E7841	1.32
H	20300	E7842	1.76
K	8700	E7843	1.03
Equaphase Model 665	11300	E7848	1.09
G-60-S			
GENERAL MOTORS			
5057	5185	E7845	1.32
GILFILLAN			
60	12000	E7846	.94
100	5500	E7847	1.09
GREBE			
AC-6	7090	E7896	1.18
AC-7	9450	E7897	1.18
Synchrophase T	5185	E7898	1.03
Synchrophase T	12900	E7899	1.47
RK-1	2925.5	E7900	.03
53	18500	E7901	1.78
HOWARD			
135, 395, 445, 495	13600	E7849	1.32
135, 395, 445, 495	16000	E7850	.88
135, 395, 445, 495	17500	E7851	1.47
KENNEDY			
10	5250	E7852	.94
20	5750	E7853	1.06
KING			
82	1480	E7854	.85
82	16000	E7855	.94

Mfg. and Model	Total Ohms Resistance	Cat. No.	NET
MONTGOMERY-WARD			
Airline "P"	10040	E7856	1.26
Airline "P"	3518	E7857	1.18
PHILCO			
76, 77, 77A	4900	E7858	.97
76, 77, 77A	1050	E7859	.88
87	4582	E7860	.65
96, 96A	8300	E7861	.65
96, 96A, 211, 211A	800	E7862	.59
20, 20A	5102	E7863	1.18
41, 42 (D.C.)		E7864	.59
Series 5	23965	E7866	2.20
RCA VICTOR (RADIOLA)			
Electrola 10-70	5030	E7877	1.32
Radiola 17	8195	E7878	1.29
R1-1		E7879	1.03
K2 & R3 (Tapped at 620 ohms)	4000	E7880	1.03
No. 104 Loudspeaker (Tapped at 2600 ohms)	4000	E7881	1.03
Radiola 18 D.C.	11000	E7882	1.26
Radiola 41	25200	E7883	.73
Radiola 44, 46 & 47	8400	E7884	1.06
Radiola 48	1865	E7885	1.47
Radiola 64	7780	E7886	1.62
Victor 9-54, Victor 9-18	4470	E7904	1.76
Radiola 67, Radiola 64	22140	E7905	1.76
Electrola P-952-997, 8-60	400		
R-32, RE45, RE52			
RE75, Radiola	4325	E1540	.65
No. 105 125			
Radiola 32 D.C.	4014	E7881	1.18
Radiola 30 & 30A 5%	6700	E7882	1.26
Radiola 240 v. D.C. 1/2	2380	E7883	.73
SILVER MARSHALL			
860	11500	E7894	1.06
865	11350	E7892	1.03
659	10300	E7893	1.12
851	9720	E7890	1.12
8M-30	2300	E7891	.85
SONORA			
B-33	7275	E7884	1.06
880	13200	E7885	1.47
SPLITDORF			
1530	11000	E7886	1.32
Abbey	18200	E7887	1.62
STEINITE			
40	20200	E7904	1.76
70-80 & 95	22140	E7905	1.76
STEWART-WARNER			
950 C.C.	15500	E7848	1.03
STROMBERG CARLSON			
403AA & 403B	3770	E7912	1.18
404 RA	5500	E7911	1.18
635 & 639	60	E7906	.82
638 D.C.	970	E7910	1.20
and	240	E7918	.79
635 D.C.	12	E7921	.79
638 C.C.	3000	E7919	1.18
641, 642	9750	E7920	1.18
652, 654	11000	E7916	1.32
846, 848	6380	E7915	1.32
	9200	E7917	1.32
	4880	E7922	.59
10, 11	750	E7907	1.32
	8680	E7909	1.42
	750	E7908	1.32
	11025	E7923	.59
401	3750	E7924	1.03
846 & 848	6380	E7925	1.03
	9200	E7916	1.32
TEMPLE			
8-60, 8-80, 8-90	6850	E7929	1.18
7-60	7500	E7930	1.91
UNITED REPRODUCERS			
Series 20	400	E7931	.59
Electrostatic	920	E7932	.59
	8600	E7933	1.18
VICTOR			
AP 736	7900	E7934	.88
WESTINGHOUSE			
WR 4	1865	E7888	1.18
ZANEY GILL			
Vitrohm	18885	E7889	1.62
ZENITH			
33, 33X, 84, 35	22700	E7937	2.20
35A, & ZE 10		E7938	1.32
34P-35P and ZE 11	6750		
52, 54, 60, 61			
62, 602, 84, 67, 642			
672, ZE 70, ZE 702	6000	E7939	1.18
613, 622, 642			
Item 53-57			
83-88, 35P, 35A	7250	E7940	1.26
P-37, 35AP, 352A1	35700	E7941	2.20

BAKELITE CONDENSERS—PARTS—ACCESSORIES

KNIGHT BAKELITE CONDENSERS



Molded in genuine bakelite. Knight mica condensers embody the highest quality material and workmanship. Accurately constructed to precise standards. The "Pig-tail" type is constructed with tinned copper leads. 1 1/4" long, securely anchored by a distinctive process. The "Lug" type has metal terminal lugs. In addition, insulated mounting holes are molded into the Bakelite, for attachment to metal base without shorting.

PIGTAIL TYPE			LUG TYPE		
No. E7215	Mfd. .000025	NET EACH 8c	No. E7231	Mfd. .00005	NET 9c
E7216	.00004		E7232	.0001	
E7217	.00005		E7233	.0002	
E7218	.0001		E7234	.00025	
E7219	.00015	PER DOZ. 88c	E7235	.0004	NET EACH 13c
E7220	.0002		E7236	.0005	
E7221	.00025		E7237	.0008	
E7222	.0004		E7238	.001	
E7223	.0005	PER DOZ. 1.45	E7239	.0015	NET EACH 13c
E7224	.0008		E7240	.002	
E7225	.001		E7241	.0025	
E7226	.0015		E7242	.003	
E7227	.002	PER DOZ. 1.45	E7243	.005	NET EACH 13c
E7228	.0025		E7244	.006	
E7229	.003		E7245	.008	
E7230	.004		E7246	.01	

INDUCTANCE SWITCHES



Compact. Well made. Nickel plated inductance switch with pointer knob. Wt. 6 oz.

No. E2041	Point 1	44c
E2032	5	47c
E2033	7	53c
3 point without knob.		19c
E5442. NET.		

MICROPHONE AND PHONOGRAPH ADAPTERS



Made of bakelite with leads and connector for microphone or phonograph use. Four and five prong adapters with split cathode connections.

No. E4250.	4 Prong.	54c
No. E4251.	5 Prong.	
List. \$1.00.		
NET.		

SERVICE TEST PLUG



Bakelite four and five prong plugs. Perfect for making external connections of dynamic speakers to receiver. Also for use in set analysers and testing equipment.

No. E1622.	4 prong plug.	23c
No. E1623.	5 prong plug.	
NET.		
EACH.		

WAFFER ADAPTERS

Four prong adapter with phone cord and plug, and 5 prong adapter with jack terminals for mike or phone.

No. E4266.	4 Prong.	28c
No. E4265.	5 Prong.	
List. 60c. NET.		

GENUINE MERSHON CONDENSERS



These quality Mershon electrolytic condensers are standard equipment with radio set manufacturers and service men. For use in all filter circuits where filter condensers of high capacity, long life and "surge proof" construction are desired. For replacements in power packs, "B" eliminators, etc., and as part of newly constructed equipment. Assures efficiency and profits in service work.

Replacement in Many Standard Sets

Amplion	T-36	Colonial	D-8, T-8, D-20	High Freq. Lab.	T-8
Audio	T-8	Columbia	Phono	Howard	T-8
Automatic	T-8		S-18, D-8, D-20, T-8	Kennedy	T-8, D-20
Belmont	T-8	Crosley	D-8, T-8, T-36,	Spartan	D-20
Browning	Q-8		S-20, S-25, Q-8, Q-52	United Air	D-20, T-8
Bush & Lane	T-8	Temple	Wurlitzer	Cleaner	D-20, T-8
Sterling	D-8, T-8			Zenith	T-36
Valley	D-20				

Single Sections—Inverted Mountings

(All have peak voltage of 430 except S20)

No.	Capacity	Type	YOUR PRICE	No.	Capacity	Type	YOUR PRICE
E1121	6	S 6	40c	E1138	10	S16	65c
E1122	8	S 8	45c	E1139	18	S18	70c
E1123	10	S10	60c	E1135	20	S20	65c
E1127	12	S12	60c	(25 volts)			

Multiple Sections—Upright Mountings

(All have peak voltage of 430)

No.	Capacity	Type	YOUR PRICE	No.	Capacity	Type	YOUR PRICE
E1124	8-8	D 8	\$0.95	E1126	8-8-8-8	Q 8	\$2.40
E1125	8-8-8	T 8	1.36	E1130	9-9-18	T36	2.40
E1128	8-18	D26	1.25	E1129	5-5-8	T18	1.60
E1127	5-5-5	T 5	1.25	E1131	8-8-18-18	Q52	2.95
	5-15	D20	1.10				

NEW FILTERMATIC



Capacity Type Tone Control

A highly perfected condenser type tone control affording smooth, stepless operation. Furnished with and without A.C. switch. Smooth in operation. The perfect tone control.

No. E3390.	.006 Cap. with A.C. Switch.	68c
List. \$1.50.		
NET.		48c
No. E3391.	.006 Cap. Less Switch.	
List. \$1.00.		
NET.		

GEM INTERFERENCE FILTER



Enjoy absolutely clear radio reception. The Gem Filter eliminates A.C. or D.C. line interference from your set. Can be installed inside or near receiver. Plug filter into wall socket and then plug radio into filter socket. Reflects all line noises and gives you flawless entertainment.

No. E3223.	List Price, \$2.50.	\$1.35
NET.		

Supersensitive Transmitting Button



Has hundreds of applications in radio and electrical circuits. Carbon granule, readily applicable to any vibrating surface or diaphragm.

MANY USES
For broadcast modulation, telephone work, detectors, aetherscope, amplifiers, etc. Increases sensitivity and volume on speech amplifier. Illustrated booklet, offers diagrams and circuits. Physical differences among buttons, but all characteristically identical.

No. E5440.	List. \$1.00.	23c
YOUR SPECIAL PRICE.		

L.C.A. SELECTOR



An effective interference eliminator. Used on any type receiver to separate stations. Cuts through local stations and improves reception.

No. E4214.	List. \$1.50.	74c
YOUR PRICE.		



TWO PIECE PLUG

Well made detachable 2-piece socket plug. Will fit any standard receptacle.

No. E2338.	NET EACH.	4c
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ALLIED today is situated on the edge of Chicago's famous loop for the convenience of our customers. Bus lines, street railway, train, elevated, and the finest of automobile roads lead right to our door. We maintain a large display room which allows for personal inspection of our line and for over-the-counter sales.

BUD AERIAL FILTER



A new device which absorbs signals from interfering programs and prevents them from cutting in on the station which you have tuned in. The Bud Filter increases the selectivity of your radio immensely and helps its sensitivity greatly by filtering out the disturbing static and signals from adjacent station channels and preventing their reproduction in the receiver. Every set owner will want one of these highly successful aerial devices.

No. E1605.	List. \$1.50.	78c
NET.		

CARTRIDGE-BY-PASS-ELECTROLYTIC CONDENSERS

KNIGHT CARTRIDGE CONDENSERS



Special values in Cartridge Condensers. Sealed in fibre tubes with wire terminal for mounting on sub-panels or directly to binding post terminals. Non-inductively wound and thoroughly impregnated. Compact. For D.C. working voltages listed.

200 Volts

No.	Mfd.	NET
E1700	.1	9c
E1701	.2	12c
E1702	.25	14c
E1785	.3	16c
E1703	.5	22c
E1717	1-1	18c

400 Volts

E1786	.0001	9c
E1704	.01	9c
E1705	.02	12c
E1706	.05	13c
E1707	.1	13c
E1795	.2	15c
E1787	.25	17c
E1788	.3	18c
E1708	.5	23c
E1789	1-1	22c

600 Volts

E1709	.0001	
E1710	.00025	
E1711	.001	
E1712	.002	
E1713	.005	
E1714	.006	
E1715	.01	
E1716	.02	12c
E1719	.1	24c

10c
Each

KNIGHT RENEWAL FILTER BLOCK CONDENSERS



A new type condenser sealed in a wax-coated container with two wire leads. Highly convenient for service work. Wax will not crack to reduce insulation resistance. Substantial and of high quality. Average shpg. wt., 1 lb. each.

No.	Mfd.	Volts	NET
E1800	1.0	200	21c
E1801	2.0	200	38c
E1802	.5	400	22c
E1803	1.0	400	36c
E1804	2.0	400	60c
E1805	.5	600	32c
E1806	1.0	600	51c
E1807	2.0	600	80c

Temple Replacement Condenser Block



Temple replacement block 10.15 Mfd. for all late model Temple sets. Size of block 3 x 4 1/2 x 5 1/2 in. Arrangement of terminals as shown. Black wire.

common; Green, 1 Mfd.; Red, 2 Mfd.; Brown, 15 Mfd.; Black, 4 Mfd.; Blue, 2 Mfd.; Yellow, 1 Mfd. Used in Temple models 8-50, 8-80 and 8-90. Shpg. wt., 5 lbs.

No. E5396. **\$2.75**

YOUR PRICE.....

KNIGHT METAL CASED REPLACEMENT CONDENSERS



Conservatively rated. Hermetically sealed. Ideal for all by-pass requirements in R.F. and A.F. circuits.

BY-PASS-STYLE A

No.	Mfd.	Volts	NET
E820	.1	200	17c
E821	.25	200	21c
E822	.5	200	25c
E823	.1	300	18c
E824	.25	300	22c
E825	.5	300	29c
E826	.05	400	18c
E827	.1	400	19c
E819	.25	400	24c

MULTIPLE SECTION-STYLE A

No.	Mfd.	Volts	NET
E828	.1-1	200	36c
E829	1-1	200	27c
E830	.25-.25	200	31c
E831	1-1	300	29c
E832	1-1	400	31c

BY-PASS-STYLE B

Non-inductively wound, designed for use in all R.F. and A.F. by-pass circuits, power amplifier output circuits, etc. Ideal for replacement purposes.

No.	Mfd.	Volts	NET
E833	1.0	200	29c
E834	2.0	200	54c
E835	1.0	300	42c
E836	1.0	400	56c
E837	.25	400	26c
E838	.5	400	33c

MULTIPLE SECTION-STYLE B

No.	Mfd.	Volts	NET
E839	.25-.25	300	39c
E840	.5-.5	300	42c
E841	1-1	400	42c
E842	.25-.25	400	42c
E843	.5-.5	400	53c

BY-PASS-STYLE C

Of high quality. These Knight replacement condensers are non-inductively wound and hermetically sealed in metal containers. For all radio by-pass circuits, for resistance and impedance coupled amplifiers, etc.

No.	Mfd.	Volts	NET
E1810	.1	200	22c
E1811	.25	200	26c
E1812	.5	200	30c
E1813	1	300	23c
E1814	.25	300	22c
E1815	.05	400	23c

Multiple Section-STYLE C

No.	Mfd.	Volts	NET
E1818	.1-1	200	41c
E1819	.25-.25	400	47c
E1820	.5-.5	400	58c
E1821	1-1	400	36c

Victor Condenser Block For Victor R-32, R-52, RE-45, RE-75



Will also efficiently serve with any set or amplifier using 245 or pentode tubes. Conservatively rated, total capacity 10% Mfd. Working voltage 600 D.C. Terminal arrangements: 5 Mfd.; 3 Mfd.; 2.5 Mfd.; 5 Mfd. and common. Very sturdy and housed in a durable metal can. A great value for the service-man and builder. Shpg. wt., 4 lbs.

No. E5397. **90c**

YOUR NET PRICE.....

SPRAGUE FILTER BLOCK REPLACEMENT CONDENSERS



Sprague electrolytic condenser with tinned pigtail leads for filter replacement work. Makes old methods of replacing shorted filter sections obsolete. Simply cut off the shorted lead and connect a Sprague self-supporting dry replacement. With tinned wire leads, 2 1/2 in. long. Indispensable in service work.

Tubular Dry Electrolytics

Scientifically designed, reflecting Sprague high quality standards. WT. 12 oz. each.

No.	Mfd.	Volts	NET
E6550	2	200	44c
E6551	4	200	50c
E6552	8	150	58c
E6553	2	450	56c
E6554	4	450	64c

Sprague Midget Condensers

Carefully constructed high voltage midget condensers. Tested at 1,500 volts. Suitable for continuous operation at 400 volts D.C. Equipped with new type lugs to facilitate wiring. Ideal for construction and replacement, occupying a minimum of space.

No.	Mfd.	List	NET
E6560	.0001	\$0.25	
E6561	.00025	.25	
E6562	.0005	.25	
E6563	.001	.25	15c
E6564	.002	.25	
E6565	.0025	.25	
E6566	.005	.25	
E6567	.006	.30	
E6568	.01	.30	18c
E6569	.02	.30	
E6570	.05	.30	
E6571	.1	.40	24c
E6572	.25	.50	28c

SPARTAN REPLACEMENT TUBULAR CONDENSERS

Spartan 400 volt tubular condensers impregnated with a high melting point compound and enclosed in leakproof metal cylinder. Carefully constructed. Compact in size. Size: 2 in. long; dia. 1 1/2 in.

For all by-pass requirements. Wt., 12 oz. each. No. E1798. .25 Mfd. List Price, each, \$1.65.

35c
YOUR PRICE.....

Aerovox "A" Condensers

For use in "A" Eliminators and across field winding of dynamic speakers for filtering hum. Maximum of 220 volts D.C. must not be exceeded. Of Aerovox quality construction. Shpg. wt., 2 lbs.

No.	Cap. Mfd.	List	NET
E1201	1500	\$3.50	52.06
E1202	2000	4.00	2.35
E1203	4000	7.50	4.40

Polymet Dual Condenser

A dual by-pass condenser with one 1 mfd. and one 2 mfd. section. Common terminal. Screw mounting. 200 v. D.C. Shpg. wt., 12 oz.

No. E5825. **13c**
YOUR PRICE.....

KNIGHT ELECTROLYTIC CONDENSERS

KNIGHT DRY ELECTROLYTIC CONDENSERS

Cardboard Containers

Knights electrolytic condensers are constructed with careful precision of the finest materials. Capacity constant over a wide frequency range. These quality dry capacitors are supplied in upright cardboard containers measuring 4 1/4 in. high and 1 3/8 in. wide. With mounting straps. Average shpg. wt. 1 1/2 lbs.

SINGLE SECTIONS

No.	Mfd. Volts	NET	No.	Mfd. Volts	NET
E7275.	4 500	\$0.35	E7280.	8 350	\$0.40
E7276.	6 500	.42	E7281.	10 350	.55
E7277.	8 500	.43	E7282.	12 350	.65
E7278.	10 500	.65	E7283.	25 50	.35
E7279.	12 500	.75	E7284.	50 50	.45
E7279.	4 350	.32	E7285.	100 25	.42
E7274.	8 350	.38	E7286.	50 25	.42

MULTIPLE SECTIONS

No.	Mfd. Volts	NET	No.	Mfd. Volts	NET
E7287.	4-4 500	\$0.68	E7291.	6-8 500	\$1.00
E7288.	4-6 500	.80	E7292.	8-8 500	1.05
E7289.	4-8 500	.90	E7293.	4-4 500	1.15
E7290.	6-6 500	.90	E7294.	6-6 500	1.25
			E7295.	8-8 500	1.45

KNIGHT DRY ELECTROLYTICS

Round Inverted Cans

These Knight electrolytic condensers are furnished in round aluminum cans of one size, fitting any single mounting hole made for 3/4 in. studs. The extruded screw base is hollow, giving outlet to the terminals of color-coded wire leads. Average shpg. wt., 1 1/2 lbs.

SINGLE SECTIONS

No.	Mfd. Volts	NET	No.	Mfd. Volts	NET
E7323.	2 500	\$0.40	E7326.	8 500	\$0.54
E7324.	4 500	.44	E7327.	10 500	.75
E7325.	6 500	.50	E7328.	12 500	1.00

DUAL SECTIONS

No.	Mfd. Volts	NET	No.	Mfd. Volts	NET
E7329.	2-2 500	\$0.68	E7334.	4-8 500	\$0.85
E7330.	2-4 500	.73	E7335.	6-8 500	.98
E7331.	4-4 500	.75	E7336.	4-8 500	.95
E7332.	4-4 500	.75	E7337.	4-8 500	.95
(negative common)			(negative common)		
E7333.	4-4 500	.75	E7338.	4-8 500	.95
(positive common)			(positive common)		

Round Upright Cans

May be used in either upright or inverted position. The standard 1 1/2" diameter can is a force fit in earlier types of screw or bayonet bases, for replacement work. When used in 1 1/2" mounting rings, the can may be placed either inverted or upright. 6" color coded leads. Shpg. wt., 1 lb. each.

No.	Mfd. Volts	NET	No.	Mfd. Volts	NET
E7339.	2 500	\$0.38	E7345.	4-4 500	.75
E7340.	4 500	.42	E7346.	4-4 500	.75
E7341.	4 500	.42	(negative common)		
(can negative)			E7347.	4-4 500	.75
E7342.	8 500	.50	(positive common)		
E7343.	8 500	.55			
E7344.	8 500	.55			
(can negative)					

Knigh Dry Electrolytics

Horizontal Mounting



Cardboard Housing

Knigh horizontal type capacitors, housed in cardboard containers. Supplied with mounting straps. Dimensions 2 1/2" x 3/4" x 1/2". Average shpg. wt., 1 1/2 lbs.

No.	Mfd. Volts	NET
E7296	2 500	32c
E7297	2 350	31c
E7298	2 220	30c
E7299	4 220	34c
E7300	4 110	32c
E7301	10 110	34c
E7302	10 25	29c
E7303	25 25	35c

Knigh Electrolytics

Multiple Sections

Rectangular Metal Cans



Knigh Electrolytics mounted in rectangular metal cans. Sections are thoroughly insulated from each other and from the container. Separate terminal lugs from each section. 30 volts D.C. peak voltage. 4% in. high. 1 1/2 in. wide. Average shpg. wt., 2 lbs.

No.	Mfd.	NET
E7304.	8-4-4	\$0.80
E7305.	4-4-8	.90
E7306.	4-8-8	.98
E7307.	6-6-8	1.05
E7308.	6-6-8	1.10
E7309.	8-8-8	1.20
E7310.	4-4-4	1.32
E7311.	6-6-6	1.55
E7312.	8-8-8	1.65

Knigh Cartridge Mounting Dry Electrolytics



Cartridge condensers constructed in strong round tubes, self-supporting on 2" bare wire leads. Now widely adopted for audio by-passing.

No.	Mfd. Volts	NET	No.	Mfd. Volts	NET
E7350.	6 * 25	\$0.22	E7358.	5 110	\$0.50
E7351.	10 25	.24	E7357.	10 110	.60
E7352.	25 25	.28	E7359.	1 250	.24
E7353.	5 50	.26	E7359.	2 220	.28
E7354.	25 50	.50	E7360.	4 220	.35
E7355.	25 50	.50			

Knigh Round Can Electrolytics

Valuable for either original or replacement use. Supplied in round upright cans, in sizes listed below. Sections are thoroughly insulated from each other and from the container.

Upright Multiple Sections

Dry type electrolytic sections, full 500 volts peak rating. All negative terminals grounded to can; positive terminals are sturdy lugs. Complete with mounting rings. Average shpg. wt., 2 lbs.

2 1/2 In. Diameter Cans		
No.	Mfd.	NET
E7313	8-8	\$1.15
E7314	9-9	1.25
E7315	5-15	1.30
E7316	4-4-4	1.35
E7317	8-8-8	1.60
3 In. Diameter Cans		
E7318	8-8	1.25
E7319	8-8-8	1.60
E7320	9-9-18	2.30
E7321	8-8-8-8	2.10
3 1/2 In. Diameter Cans		
E7322	9-9-18-18	3.25

Mershon Electrolytic Condensers

Particularly suited for use in the filter circuits of B-Eliminators and Power Converters where filter condensers of high capacity, long life, and "Surge-Proof" construction are desired. Recommended as replacement units (for damaged filter condensers) in repairing B-Eliminators and Power-Packs, and as part of newly constructed equipment of the above classification. Peak voltage 430. Single condensers are of the inverted type; multiple sections are upright.

Our No.	Type	Capacity	Total Mfd.	Your Price
E1121.	S6	6	6	\$0.40
E1122.	S8	8	8	.45
E1133.	S18	18	18	.70
E1135.	S20	20	20	(25 Volt) .65
E1124.	D8	8-8	16	.95
E1125.	T8	8-8-8	24	1.35
E1126.	Q8	8-8-8-8	32	2.40
E1128.	D26	8-18	26	1.95
E1131.	Q26	8-8-18-18	32	2.95
E1132.	T5	5-5-5	15	1.25
E1127.	D20	5-15	20	1.10
E1130.	T36	9-9-18	36	2.40
E1129.	T18	5-5-8	36	1.60

Knigh Inverted Wet Electrolytics

Truly a self-healing capacitor. Of standardized inverted design, snikle hole mounting, with threaded stud of 3/8" diam. Must be used with vent at the top. Can is always negative. Lug below mounting stud is positive connection. Shpg. wt., 1 1/2 lbs. each.

No.	Mfd.	Volts	NET
E7361.	4	500	\$0.80
E7362.	6	500	.87
E7363.	8	500	.95
E7364.	4	450	.75
E7365.	6	450	.82
E7366.	8	450	.87
E7367.	10	450	.95
E7368.	12	450	1.02

Sprague Electrolytic Condensers

A tremendous advancement in filter condenser construction. With round-edged anode made of a single piece of aluminum without welding or soldering. Offers high capacity in compact space. Absolutely puncture-proof; self healing. Screw socket facilitates installation on every type of set. Rated 8 mfd. at 430 volts D.C. No. E6550. List Price, \$2.50. **68c** YOUR PRICE



STANDARD REPLACEMENT CONDENSERS

ELKON DRY ELECTROLYTIC HI-VOLT D.C. CONDENSERS

Mallory-Elkon Dry Electrolytic Condensers. Ideal for replacement purposes because they are dry, compact and easy to install. May be mounted in any position without danger of leakage. Replacements everywhere. Important suggestion: If set uses 1/2 mfd. condenser, replace with Elkon 2 mfd.; replace 3 mfd. size with 4 mfd.; 5 mfd. with 6 mfd.; 7 mfd. with 8 mfd. In each case the larger capacity condenser will occupy less space than the one which it replaces and will give better performance. If unable to determine size required, order with deposit, giving set manufacturer and model number.

FILTER TYPES

Mallory-Elkon Filter Type Condensers are of a high power factor, dry, stable in operation and not affected by low temperatures. Max. D.C. volt. 475, working volt. 450. Size 1 1/2" x 1 1/4".

No.	Mfd.	List	NET
E2680	2	\$0.95	56c
E2681	4	1.10	65c
E2682	6	1.30	76c
E2683	8	1.45	85c

Metal Can Types

For replacement of the round electrolytic type condenser. A dry 1 1/2" x 1 1/4" in an aluminum container with universal mounting. Can be directly connected to the negative side of condenser. Max. D.C. 625 volt., working volt. 430. All 4 3/4" high.

No.	Mfd.	List	NET
E2684	2	\$1.70	\$1.00
E2685	4	1.70	1.00
(screw)			
E2686	16	3.25	1.91
(2 anode)			
E2687	34	4.50	2.65
(3 anode)			

BY-PASS TYPES

Elkon Mallory By-Pass Condensers. Miniatures of the electrolytic condensers. Developed to replace paper condensers gradually failing in service. Used in filter circuits and as audio by-passes. Easily inserted in blocks as replacement units. Contained in specially treated cartons and supplied standard with lugs. Measures 2 3/8 in. x 1 1/4 in. x 1 1/8 in.

No.	Mfd.	Volts	List	NET
E2688	1/4	475	\$0.60	35c
E2685	1/2	475	.70	41c
E2690	3/4	475	.80	47c
E2691	1	475	.90	53c
E2692	2	475	.95	56c
E2693	3	475	1.10	65c
E2694	8	150	1.00	59c
E2695	20	25	1.00	59c

SANGAMO MICA CONDENSERS

Sangamo mica fixed condensers are extremely accurate and of unusual mechanical strength, moulded in bakelite. Water and damp proof. Very dependable.

No.	Cap.	List	NET
E6521	.00005		
E6510	.0001		
E6522	.00015	\$0.40	24c
E6511	.00025		
E6512	.0005		
E6517	.001	.50	29c
E6513	.002		
E6518	.003		
E6519	.004	.50	35c
E6514	.005	.70	41c
E6515	.008	.85	50c
E6523	.008	1.00	69c
E6524	.015	1.25	85c
E6524	.015	1.45	75c

RESISTOR CLIPS
Resistor clips for above. No. E6516 List. 10c. **NET. PER PAIR. 6c**

TOBE "B" BLOCK CONDENSERS

R116. 2-2-2-4-1-1 mfd. High voltage for power packs using 210 tubes.
No. E7126. List. \$18.00.
YOUR PRICE \$5.40

R171. 8-2-2-1-1 mfd. for power packs using 171 A tubes.
No. E7127. List. \$15.00.
YOUR PRICE \$4.50

REPLACEMENT FILTER BLOCK

8 MFD.
An efficient filter condenser ideal for all filter and bypass purposes. Serves in many standard C.C. circuits and sets. Screw mounting base. Can measure 2 1/2 by 2 1/2 by 1 1/4 in.
Terminal arrangement: Black wire, common; Blue 1/2 Mfd.; Blue 1/4 Mfd.; Blue 1/4 Mfd.; Yellow 1/4 Mfd.; Red 2 Mfd.; Red 2 Mfd.

No. E5395. **YOUR PRICE 78c**

DUBILIER CONDENSER BLOCKS
Ruggedly constructed, highly efficient. For replacement in standard sets and power amplifiers as indicated below. Easily installed in place of original.

For 171A Sets
No. E2767. For sets using 171A power tubes. **NET \$3.65**

For Power Amplifiers
No. E2769. For 210 tube amplifiers. **NET \$6.50**

No. E2770. For 245 tube amplifiers. **NET \$4.70**

Original Knight-Columbia Replacement Condensers

7.9 mfd. block
Consists of each of the following condenser values: .5 mfd.—200 volts; 1 mfd.—300 volts; 2.3 mfd.—500 volts; 1 mfd.—800 volts; 2.3 mfd.—800 volts.

FOR COLUMBIA KNIGHT S.G. 8

This condenser block will replace the original in Knight-Columbia S.G. 8, S.G. 10, 6-7 and 8-9 receivers. No. E3444. **YOUR PRICE \$4.12**



THORDARSON POWER COMPACTS

R-171
For use in plate supply devices and power amplifiers using single or push-pull 171 power tubes and a single Raytheon BH. Wt. 8 1/2 lbs. **\$345**

No. E7041. **NET \$325**

TYPE R-250
For 250 type rectifier. Operates power amplifiers using one 171 tube in output. Wt. 9 lbs. No. E7042. **\$325**

TYPE R-210
Serves as power supply for plate supply units and amplifiers using one 2B1 rectifier and one 210 tube in output stage. Wt. 3 lbs. No. E7043. **\$385**

DUBILIER MICADON, No. 661
.0005 MFD.
Made of best grade India steel mica insulation and metallic foil placed between pieces of bakelite. 600 volts D.C. .0005 mfd. No. E2753. Per Doz., 42c. **YOUR PRICE, EACH 4c**

GENUINE PHILCO CONDENSER SECTIONS
Here are the genuine Philco un-cased condenser sections for replacement purposes. These condensers are all treated in the special Philco vacuum process which eliminates all trace of moisture and allows the condenser to be thoroughly impregnated with wax. 2,000 volts.

Philco No.	Capacity	NET
P7088	.001	8c
P7067	.0025	15c
P7066	.005	20c
P7065	.01	30c
P7064	.02	60c

Philco By-Pass Condensers

Genuine Philco mica and wax impregnated paper condensers. Mica condensers are in moulded bakelite casings and moisture proof. The paper type condensers are specially treated and enclosed in bakelite housings.

BAKELITE HOUSING

Philco No.	Capacity	NET
P3903-F	.01 (Twin)	10c
P3703-B	.015 (Twin)	20c
P3793-B	.015 (Twin)	55c
P3793-M	.015 (Twin)	55c
P3793-S	.015 (Twin)	55c
P3618-A	.05 (Twin)	25c
P3618-AJ	.05 (Twin)	25c
P4989-J	.09	10c
P4989-K	.09	30c
P4989-L	.09 (Twin)	15c
P6287-B	.15	25c
P4989-M	.15	25c

*Common centerpoint grounded to mounting lug.

MICA CONDENSERS

Philco No.	Capacity	NET
P6997	.00025	11c
P4990	.00025	11c
P3774	.0005	6c
P3775	.0005	6c
P3082	.00125	2c
P5120	.00141	2c
P3910	.0005	12c
P3875	.0006	12c
P5863	.0007	12c
P6021	.0008	12c
P6275	.001	12c
P6015	.00125	12c
P7007	.0014	55c
P7139	.0015	55c
P6822	.00165	60c
P6823	.0018	60c
P6853	.002	60c
P7006	.0025	80c
P6089-M	.003	80c
P6981	.008	24c

SPRAGUE 600 VOLT 1 MFD. CONDENSER

For general replacement purposes. Especially suitable for Knight-Columbia A.C. 5 receivers. No. E2223. **YOUR PRICE \$135**



POWER TRANSFORMERS



Power Transformers. Exact Duplicates—Physically, electrically and mechanically of the original units. No refitting or re-building is necessary in their installation; no unsightly re-wiring to detract from their workmanlike appearance in the completed job. Do not confuse these Exact Duplicate transformers with the cheap "hit or miss" units flooding the market. Exact Duplicate transformers are in every way equal to the original and properly balanced with other equipment. Insures renewal of the original performance of the set. Priced at the lowest prevailing quotations.

Models	No.	NET
ALL-AMERICAN MOHAWK		
Lyric 90	E6108	\$3.82
Lyric D & H	E6107	5.00
APEX		
36, 37	E6108	5.14
10	E6109	4.26
20	E6110	2.35
32	E6111	4.56
ATWATER KENT		
37, 38	E6112	2.94
55, 55C (new)	E6113	5.59
55, 55C (old)	E6114	5.73
60, 60C	E6115	5.59
H1, H2, L1, L2	E6116	4.12
82, 85	E6117	4.12
84	E6118	4.12
80, 83	E6119	4.12
87, 89, 89B	E6120	4.56
66 (Plate)	E6121	5.00
BOSCH		
29, 825	E6122	5.14
BRUNSWICK		
3-NC-8, 5-NC-8	E6123	5.79
KR Series	E6124	3.59
14, 21, 31, 32, S14	E6125	4.41
S21, S81, S82	E6125	4.41
12, 12A, 16, 16A	E6126	4.12
18, 18A, 33	E6127	2.79
33A	E6128	4.12
10	E6129	2.79
COLUMBIA		
S.G. 5	E6128	2.85
S.G. 8	E6129	3.95
S.G. 9	E6130	5.45
CROSLLEY		
40-S, 41-S, 42-S	E6131	5.59
82-S	E6131	5.59
EARL		
Models using 245's	E6132	4.12
EDISON		
Chassis (JR-JC)	E6133	2.88
EVEREADY		
Series 50	E6134	3.50
Series 30-40	E6135	5.29

REPLACEMENT EXACT DUPLICATE TRANSFORMERS

Models	No.	NET
FRESHMAN		
Q15, Q16, 3Q15, 3Q16	E6136	5.00
QD-16S	E6137	5.29
GENERAL MOTORS		
S-9-A	E6138	3.06
KNIGHT		
S.G. 5	E6168	2.65
S.G. 8	E6169	3.95
S.G. 9	E6170	5.45
Superhet 7	E6171	2.94
Superhet 9	E6172	4.70



Exact duplicate transformers are products of the Standard Transformer Corp., exclusive specialists in the transformer field. One of the Philco transformers illustrated at left.

MAJESTIC		
90, 9-P-6	E6139	5.09
180, 8-P-6 (plate)	E6140	4.35
70, 7-P-6 (plate)	E6141	2.70
70, 7-P-6 (filament)	E6142	2.70
180, 8-P-6	E6143	3.73
50 unmounted	E6144	5.59
15-A unmounted	E6145	2.35
21, 22, 23 unmounted	E6146	5.29
90, 100-B	E6147	6.23
130A, 230A, 130, 131, 132, 233	E6148	6.17
25, 25-B unmounted	E6149	5.29
PHILCO		
20	E6150	3.47
66	E6151	3.59
76, 77	E6152	3.59
82, 86	E6153	3.47
87	E6154	3.59
95, 96, 296	E6155	4.20
111, 21, 112, 212 (245's)	E6156	4.44
112, 212 (247's)	E6157	4.32
500	E6158	3.47
70, 270-470	E6159	3.82

Still another ALLIED service. Through special connections and close contact with the Standard Transformer Corporation, we can supply Exact Duplicate power transformers for practically any set on the market. Send for your copy of the special listing of over 200 power transformer replacement units. Write us about your specific transformer needs.

Models	No.	NET
RCA RADIOLA		
42, 82, 86	E6160	1.95
60, 62	E6161	5.79
44, 46, 47	E6162	3.88
17, 18, 33, 51	E6163	3.59
42, 48	E6101	1.65
64, 67	E6184	13.23
66	E6165	3.88
RCA VICTOR		
RE-75, R-32	E6102	4.03
R-52, RE-45	E6102	4.03
RE-39, RE-34, 35	E6100	1.95
37	E6100	1.95
SILVER MARSHALL		
750 Sheridan	E6167	3.47
SPARTON		
589	E6173	4.12
931	E6174	4.12
89-A	E6175	6.47
301	E6176	7.06
930	E6177	2.94
410, 420	E6178	3.53
25, 26, 26-AW	E6179	6.76
STEINITE		
40	E6180	6.17
40-C, 41-C, 60-C, 102-C	E6181	6.03
STEWART WARNER		
801, 801-A, 802	E6182	3.82
STROMBERG CARLSON		
641, 642, 652, 654	E6183	5.59
10, 11	E6184	6.17
TEMPLE		
8-60, 8-80, 8-90	E6185	3.67
UNITED AIR CLEANER		
108, 108-A, 110	E6186	3.82
Sentinel 104	E6187	4.86
ZENITH		
50, 60, 70	E6188	4.35
10, 11, 12	E6189	4.41



Don't take chances in transformer replacements. Use Exact Duplicates to insure renewal of the original performance of the set.

UNIVERSAL POWER TRANSFORMERS FOR MIDGET RECEIVERS



Universal power replacement transformers for midget model radio sets. Physical and electrical characteristics make the transformers listed below adaptable to almost any kind of replacement job on a midget model set. If the type needed is unknown, please order describing set and tubes used.

HORIZONTAL MOUNTING

For 5 or 6 '24s, '27s, '35s, 2 '45s or 47s and 1 '50 or '82 tubes. 700 v. C.T. or 110 M.A.; 5 v. 2 amp. for 1 '80 or 2.5 v. C.T. 3 amp. for 1 '82, 2.5 v. C.T. 3 amp.; 2.5 v. 10.5 amp. Wt., each, 7 lbs.
No. E6192. For '80 Rectifier.
No. E6193. For '82 Rectifier.
YOUR PRICE, \$2.45

For Sets of the Following Manufacturers

Advance Electric
Atchison Radio
Automatic Radio
Nathaniel Baldwin
Brown & Mathart
Cardinal Radio
Cartret Radio Lab.
Champion Radio
Crosley Radio
Echobone Radio Mfg.
Federated Purchaser
Flint Radio
J. French & Sons
Gilbert, R. W.
Gray & Danielson
Orlino-Smith Mfg.
Hyatt Elec.
Jackson Bell
Jewell Mfg.
Keller-Puller
Master Radio
Mission Bell
National Transformer
Pere-Airo
Plymouth Radio
Reuler
Simplex Radio
Steinlite
Transformer Corp. of Amer.
Zaner
Zaner Radio & Tele.
Zaney Gill

VERTICAL MOUNTING

For 4 or 5 '27s, '24s, '35s, 1 to 2 '45s, and 47s and 1 '80 or '82, 325-325 v. at 90 M.A.; 5 v. at 2 amp. for 1 '80 or 2.5 v. at 2 amp. for 1 '82; 2.5 v. at 9 amp. C.T.
No. E6191. For '80 Rectifier.
YOUR PRICE, \$1.65
No. E6190. For '82 Rectifier.
YOUR PRICE, \$2.15



UNIVERSAL POWER TRANSFORMERS



There is a Universal Power Transformer adaptable for replacement on practically any receiver on the market. Furnished with adjustable mounting frames that permit an adequate range of mounting adjustments for all practical purposes. High quality of material used, careful laboratory controlled production methods, compactness of design, and remarkable adaptability permitting

use in a large group of standard sets, have made these Universal Power Transformers extremely popular. Adequately meets the growing demand for this type of equipment. Heavy duty, for 110 V., 50-60 cycle A.C. Listings below only partly indicate the extremely wide range of usefulness of this fine line of transformers. Write us for information on any other type required.

For 6-225's, 1-227, 2-172's, 1-288

For sets of power packs using up to the number of tubes specified above. Secondary voltages: 570 volts C.T.-70 M.A.; 5 volts C.T. 2 amp. for 1-288; 2.5 volts C.T.-1.75 amp. for 1-227; 5 volts C.T. 1 amp. for 2-171; 1.5 volts-6.3 amp. for 6-226. Size 3 1/2 x 3 1/2 x 3 1/2. Shpg. wt., 8 lbs.

MANUFACTURERS AND MODELS

- A.C. Davton
- A.C. 83
- Acme
- A.C. 7
- Amrad
- A.C. 7
- Arbophone
- 45, 55
- Atwater-Kent
- 35, 37, 38, 40, 42,
- 43, 44, 45, 52
- Bremar-Tully
- 37-6, 40, 6-41,
- 7-70, 7-71
- Brunswick
- 5KR, 5KRO,
- 2KRO, 3KRO,
- 5KR8, R-1
- Columbia Phono.
- 65, 68, C2, C4, 930
- Crosley
- 700, 704A, 704B,
- 706, 810, 900A, C.,
- 41A, 42A
- Freshman-G.
- General Motors
- 5077, 5080
- Grebe
- Synemphase 7AC
- Howard
- 8 Green Diamond
- King
- J. H.
- Kolster
- 6K-AC, 7 AC, K,
- 20, 22, 25, 37, 37,
- K-12
- Philco
- K 105
- RCA Victor
- 18, 17, 7026 Radi-
- 50, 17, 15, 33, 50,
- 51
- Splittord
- Abbey 171
- Standard
- 30
- Steinle
- 301, 262
- U.S. Radio & Telev.
- 50
- Zenith-11E, 11E

For 5-217's or 224's, 1-245 or 247, 1-288

For sets of power packs using up to the number of tubes specified above. Secondary voltages: 700 volts C.T.-70 M.A.; 5 volts C.T.-2 amp. for 1-288; 2.5 volts C.T.-1.5 amp. for 1-245 or 247; 2.5 volts C.T.-8.75 amp. for 5-217's or 224's. Size 3 1/2 x 3 1/2 x 3 1/2. Shpg. wt., 8 lbs.

MANUFACTURERS AND MODELS

- Advance-Falcx
- 77, 88
- Atchison-12
- Automatic
- Tom Thumb
- Baldwin
- Baldwinette
- Crosley-Buddy
- Echophone Radio
- Echophone
- Federated
- Purchase
- Melord Cath-
- edral tone
- Flint-All
- Hyatt-AC-7
- Jackson Bell-62
- Jewell-M
- 424
- National Trans.
- Balkite
- Paterson
- 5-09, 7-09
- Remler
- Cameo 14
- Simplex
- H
- Steinle
- 410
- Sterling
- F-1-60
- 32 AC
- Traveler
- B
- U.S. Rad & Telev.
- Apex 27
- 410
- Waltham
- 31
- Zaney Gill Corp.
- And Others.

No. E6202.
YOUR PRICE **\$2.38**

No. E6203.
YOUR PRICE **\$1.95**

For 7-217's or 114's, 2-245's or 247's, 1-288

For sets of power packs using up to the number of tubes specified above. Secondary voltages: 1000 volts C.T.-110 M.A.; 5 volts C.T.-2 amp. for 1-288; 2.5 volts C.T.-3 amp. for 2-245's or 247's; 2.5 volt C.T.-12.25 amp. for 7-217's or 224's. Size 4 1/2 x 3 1/2 x 4 1/2. Shpg. wt., 10 lbs.

MANUFACTURERS AND MODELS

- All American-36 D
- 32 AC, 41 AC
- Am. Bosch
- 48, 58, 60
- Amrad-81
- Atwater-Kent
- 55, 55C
- Balkite-C.F.
- Browning, Drake
- 59, 70, 71
- Brunswick
- 81-82 (panastone)
- 3-31, 15, 22, 12-
- S81, 5-14, 821-B.T.
- 831-282
- 32 AC
- Crosley
- 308, 318, 338, 348,
- 408, 418, 428, 328
- F.A.D. Andrea
- (F's d's) -25, 35,
- 40, 41, 42, 44, 46,
- 47
- Freed Elsmann
- 908 AC, NR 95 AC
- Freshman-11 318,
- 328, 338, AC, 31-
- 47
- 8-81, 8-80, 8-81
- United Air Cleaner
- 660, 666C, 444
- Apeex-48, 41, 42, 46,
- 47
- General Motors-A
- Grisby-Grunow
- Majestic (100-25V)
- 100, (60-25V) 20B,
- (60-25V)
- 100B-25
- 130A, 230A
- Ilco-48, 6-A.
- Kellogg-523-626
- King-King Monarch
- Kolster-930-, K-43
- National Carbon
- Series 40
- R.C.A. Victor
- Radiola 15, 47, 65
- Silver-Mullins
- 33A, 34A, 35A, 36A
- Stewart-Warner
- 959 A.C. 900
- Stromberg-Carlson
- 641, 642
- Temple
- 8-81, 8-80, 8-81
- United Air Cleaner
- 660, 666C, 444
- Apeex-48, 41, 42, 46,
- 47

No. E6203.
YOUR PRICE **\$3.15**

STANCOR REPLACEMENTS POWER TRANSFORMERS FOR MIDGET SETS

4 TUBE MODELS
High grade transformers for midget sets. For 2-224's or 227's, 1-245 or 247 and 1-280 or 282. Primary: 110 V., 50-60 cycles. Secondary: 800 V. C.T.-40 M.A.; 2 1/2 volts 5 amps. C.T. for 2-224's or 227's and 1-245 or 247; 5 volts 2 amps. for 1-280 or 282; 5 volts 3 amps. for 1-282. Mounting area 3x2 1/4". Shpg. wt., 5 lbs.

- No. E6204. P-988, 280 rectifier.
- No. E6205. P-1281, 282 rectifier.
- List Price, \$2.90. YOUR PRICE, EACH **\$1.25**
- For 2-224's or 227's, 1-245 or 1-247 and 1-280 or 282. Same as above except high voltage is 700 volts C.T.-50 M.A. Mounting area 2 1/4" x 3 1/4". Shpg. wt., 8 lbs.
- No. E6206. P-953, 280 rectifier.
- No. E6207. P-1283, 282 rectifier.
- List Price, \$1.15. YOUR PRICE, EACH **\$1.58**

5 TO 6 TUBE MODELS
For 3 or 4-224's or 227's, 1-245 or 247, and 1-280 or 282. Primary: 110 volts, 50-60 cycles. Secondary: 700 volts, C.T.-70 M.A.; 5 volts, 2 amps. for 1-280 or 2.5 volts, 3 amps. for 1-282; 2.5 volts, 8.75 amps. for 3 or 4-224's or 227's and 1-245 or 247. Mounting area 3 1/2" x 3 1/2". Shpg. wt., 6 lbs.

- No. E6208. P-952, 280 rectifier.
- No. E6209. P-1282, 282 rectifier.
- List Price, \$3.50. YOUR PRICE, EACH **\$2.68**
- 8 TO 9 TUBE MODELS**
For 5 or 6-224's or 227's, 2-245's or 247's, and 1-280 or 282. Primary: 700 volts C.T.-110 M.A. Secondary: 3 amps. for 1-280 or 2.5 volts, 3 amps. for 1-282; 2.5 volts C.T. 3 amps. for 2-245's or 247's; 2.5 volts, 10.5 amp. for 5 or 6-224's or 227's. Mounting area, 3 1/2" x 4 1/2". Shpg. wt., 7 lbs.
- No. E6210. P-951, 280 rectifier.
- No. E6211. P-1285, 282 rectifier.
- List Price, \$6.75. YOUR PRICE, EACH **\$2.95**

- FILTER CHOKES**
- 30 HENRIES**
Stancor quality. Wt., 2 lbs.
- No. E6212. 50 M.A. List Price, \$1.15. YOUR PRICE **67c**
- No. E6213. 75 M.A. List Price, \$1.45. YOUR PRICE **85c**
- No. E6214. 110 M.A. List Price, \$1.80. YOUR PRICE **\$1.06**
- FOR ATWATER KENT**
Stancor filter choke for Atwater Kent Models 36, 37, 38, 40, 42, 44, and 52
- Core, 3/8" x 3/8", Iron, 1 1/2" x 1 1/2". Depth, 3/8". Unmounted. Shpg. wt., 2 lbs.
- No. E6215. List Price, \$1.25. YOUR PRICE **73c**

JEFFERSON TRANSFORMERS FOR CLASS "B" AMPLIFIERS

The new Class "B" amplifiers have the distinct advantage of providing with relatively small tubes a reserve of power for an extended volume range. **PLATE SHIELDING TRANSFORMERS**
Type 465-151. Designed primarily for use with 282 rectifier to supply required plate voltage for Class "B" Amplifier. When operated with 460-190 choke, will work No. 248 push-pull Amplifier at maximum output. Size, 3 1/2" x 3 1/4" x 2 1/4" high. Shpg. wt., 6 lbs. List Price, \$8.75. **\$5.15**

Type 464-191. For use with 465-151 plate supply transformer. Filament windings for 282 rectifier, No. 246 driver and 2 No. 240 push-pull amplifiers; also additional winding for 6-1 1/2 amp. heater filaments of 4-1 amp. heater filaments. Size, 3 1/2" x 3 1/4" x 2 1/4" high. List Price, \$6.95. YOUR PRICE **\$4.09**

FILTER CHOKES
Type 466-190 is an input filter choke for use with plate supply and filament transformers listed above, in Class "B" Amplifiers. Res. 190 ohms; nominal inductance, 18 henries. 50 M.A. Capacity 150 M.A. Type 465-200 is a general purpose choke that provides adjustable inductance in second section. "B" Amplifier choke. Res. 190 ohms; nominal inductance, 10 henries. 150 M.A. Shpg. wt., 3 lbs. each. No. E4387. 466-190. List Price, \$3.20. YOUR PRICE, EACH **\$1.88**

INPUT TRANSFORMERS
A coupling transformer for Class "B" Amplifier. Adaptable for coupling either No. 246 driver to 2-246 push-pull amplifier or for coupling 2-227 push-pull tubes to 2-246 push-pull tubes. Completely shielded in black enameled housing. Size, 2 1/4" x 2 1/4" x 3 1/2" high. Shpg. wt., 3 lbs. No. E4390. List Price, \$6.25. YOUR PRICE **\$3.65**

OUTPUT TRANSFORMER, 467-261
For push-pull Class "B" amplifier. Suitable for coupling 2-246 tubes to various types of speakers or speaker combinations having voice coil resistance of 1, 3, 6, and 10 ohms. Case is of same style and size as 467-271. Shpg. wt., 3 lbs. No. E4391. List Price, \$6.25. YOUR PRICE **\$3.65**

MICROPHONE TRANSFORMERS
Jefferson type 467-261 is a compact coupling transformer for single button carbon microphone. Turn ratio 1 to 64, impedance ratio 1 to 4,000. Size, 2 1/2" x 2 1/2" x 3 1/2" high. Shpg. wt., 2 lbs. No. E4395. List Price, \$2.20. YOUR PRICE **\$1.29**

Type 467-262 is a coupling transformer for all double button carbon microphones. Turn ratio 1 to 15, impedance ratio 1 to 2,000. 2 1/2" x 2 1/2" x 3 1/2" high. Shpg. wt., 3 lbs. No. E4396. List Price, \$3.75. YOUR PRICE **\$2.20**

THORDARSON

ELECTRIC MFG. CO.

POWER REPLACEMENT TRANSFORMERS

You can now replace a defective power transformer in most radio sets with a genuine Thordarson replacement power transformer. Each Thordarson replacement power transformer is carefully designed to be as nearly universal in its application as it is possible to make it. The transformers are all supplied for "Three Chassis" mounting and have soldering lug terminals. Filament windings are designed to meet the requirements of the average set. Thordarson's manufacturing skill and experience insure lasting service. These products reflect finest quality, precision of construction and accuracy of laboratory tests.



MODEL T-5002
Designed for use with midge type radios employing 3—224's, 227's, 236's, one pentode 247 and 250. Specifications—Primary: 115 V. 60 cycle. Secondary: 2.5 V. at 5 amps. C.T. 5 V. at 2 amps.; 670 V. C.T. at 40 M.A. Measurements 3 3/4 x 2 1/2 in. Shpg. wt. 5 lbs.
No. 7061. List Price, \$5.00.
YOUR PRICE... \$1.55

Permits the use of four 224's, 227's or 236's, one pentode tube and 1—280. Specifications—Primary: 115 V. 60 cycle. Secondary: 463 V. each side, center-tapped at 70 M.A.; 5 V. at 2 amps.; 2.5 V. at 8.5 amps. C.T. 3 3/4 x 1 in. Shpg. wt. 6 lbs.
No. E7060. List Price, \$6.00.
YOUR PRICE... \$1.88

MODEL T-5003

Built for use with receivers employing three 224's, 227's or 236's, two Pentode 247's and 1—280 tube. Specifications—Primary: 115 V. 60 cycle. Secondary: 2.5 V. at 12 amps. C.T.; 5 V. at 2 amps.; and 780 V. C.T. at 80 M.A. Shpg. wt. 7 lbs.
No. E7062. List Price, \$7.00.
YOUR PRICE... \$2.25

MODEL T-3740

A sub-panel mounting unit for heater type tubes and 245's in pushpull. Primary 115 V., 50-60 cycles. Secondary: 2.5 V. center-tapped 9 amps. for 5—224's, 236's or 227's; 2.5 V. center-tapped at 3 amps. for 2—245; 750 V. center-tapped at 110 M.A.; 5 V. at 2 amps. for 280. Size 3 3/4 x 2 1/2 in. high. Shpg. wt. 7 lbs.
No. E7022. List Price, \$6.00.
YOUR PRICE... \$3.53



MODEL T-3381

For 5—'26's; 1—'27; 1—'71, and 1—80.
Designed for sets using single 171 output stage. Separate winding for first audio tube so that it can be operated at higher plate and bias voltage if necessary. Primary: 115 V. 50-60 cycle. Secondary: 5 V. at 1/4 amp. for 171. 1.5 V. at 2 amps. for 2—226 Audio. 5 V. center-tapped at 2 amps. for 280 21. 500 V. at 60 M.A. C.T. 1 1/2 V. at 3 amps. for 3—226 R.F. 2.5 V. at 2 amps. for 227 detector. Size, 3 3/4 x 4 1/2 in. high. Shpg. wt. 4 1/2 lbs.
No. E7064. List Price, \$5.00.
YOUR PRICE... \$2.94



MODEL T-2971E

For 5—'26's; 1—'27; 2—'71's and 1—80.
A unit designed for circuits requiring pushpull 171's and 226 tubes. Primary: 115 V. 50-60 cycles. Secondary: 5 V. center-tapped at 1/4 amp. for 2—171; 2.5 V. at 2 amps. for 1—227; 1.5 V. at 1 amp. for 226 first audio; 1.5 V. at 3 amps. for 3—226 R.F.; 5 V. center-tapped at 2 amps. for 280; 650 V. center-tapped at 70 M.A. Size, 3 3/4 x 4 1/2 in. high. Shpg. wt. 4 1/2 lbs.
No. E7065. List Price, \$5.00.
YOUR PRICE... \$2.94

MODEL T-3624E

For 5—'27's or '24's; 2—'45's and '47's, and 1—80.
A unit for heater type tubes and pushpull 245's. Primary: 115 V. 50-60 cycles. Secondary: 730 V. center-tapped at 100 M.A.; 5 V. center-tapped at 2 amps. for 280; 21. V. at 3 amps. for 2—245; 2.5 V. at 9 amps. for 5—224's or 227's. Size, 3 3/4 x 4 1/2 in. high. Shpg. wt. 6 1/2 lbs.
No. E7063. List Price, \$7.00.
YOUR PRICE... \$4.12

THORDARSON CLASS "B" AMPLIFIER PARTS

The release of the type 46 double grid tube and the type 82 mercury vapor rectifier makes possible the construction of an amplifier to deliver 30 watts of audio power most economically. For maximum efficiency, carefully designed coupling transformers and extremely good regulation of power supply unit are essential. The following Thordarson products have been especially designed for this type of amplifier:



T-5303 Plate Transformer—100 V. D.C.—200 M.A.
No. E7023. List Price, \$8.00.
YOUR PRICE... \$4.70

T-5338 Filament Transformer—2.5 V. 3 amp.; 2.5 V. C.T. 9 amp.; 2.5 V. C.T. 5 amp.; 4 lbs.
No. E7024. List Price, \$6.00.
YOUR PRICE... \$3.53

T-2355-A 4 lbs. Swinging Filter Choke.
No. E7025. List Price, \$5.00.
YOUR PRICE... \$2.94

T-5289 Input Transformer—48 to 46's Class "B". Wt. 4 lbs.
No. E7026. List Price, \$5.00.
YOUR PRICE... \$2.94

T-5339 Output 46's Class "B" to 500 ohms. Wt. 4 1/2 lbs.
No. E7027. List Price, \$5.00.
YOUR PRICE... \$2.94

T-5356 Output 46's Class "B" to 8 or 4 ohms. Wt. 4 1/2 lbs.
No. E7028. List Price, \$5.00.
YOUR PRICE... \$2.94

T-5291 Output 46's Class "B" to 10,000 or 5,000 ohms.
No. E7030. List Price, \$5.00.
YOUR PRICE... \$2.94

T-5381 Line transformer, 500 to 8 or 4 ohms. Wt. 4 1/2 lbs.
No. E7031. List Price, \$4.50.
YOUR PRICE... \$2.65

T-3020 Double button microphone to grid. Turn ratio 1-22.
No. E7010. List Price, \$5.00.
YOUR PRICE... \$2.94

T-2876 Coupling transformer, 210 to 2,000 ohms. Wt. 4 lbs.
No. E7032. List Price, \$3.00.
YOUR PRICE... \$1.76

R-300 Audio transformer. 3-1 ratio. Wt. 2 1/2 lbs.
No. E7021. List Price, \$4.00.
YOUR PRICE... \$2.35

THORDARSON FILTER CHOKE

T-5450, for amateur transmitter filter circuits. Will also serve as a modulation choke. Conservatively rated at 250 M.A., with an inductance of 15 henries. Mounted in open type frame with leads brought out directly from coil. Insulated for 3,000 V. Size 3 3/4 x 4 1/2 in. high. Wt. 3 lbs.
No. E7033. List Price, \$5.00.
YOUR PRICE... \$3.95



THORDARSON PLATE SUPPLY TRANSFORMER

T-3448. A popular priced plate supply transformer for amateur radio transmitters. Mounted in an open frame with cold leads on both primary and secondary. Primary 110 V. Secondary 800-0-800 V. May be loaded to full capacity of 150 M.A. D.C. without overheating. Secondary insulated for 3,500 V. Size 4 1/2 x 3 3/4 in. high. Wt. 6 lbs.
No. E7034. List Price, \$5.00.
YOUR PRICE... \$5.25



THORDARSON HIGH POWER TRANSFORMER

For 2—'50's or '10's and 2—81's
Cased and fully shielded. Delivers 1100 V. A.C. at 150 M.A.; 7 1/2 V. at 3 amps.; 2 1/2 V. at 7 amps. All connections brought out to a shielded bakelite strip at bottom. All windings center-tapped. Operates on 100-130 V. 50-60 cycles, tested at 2,500 V. Size 5 x 4 1/4 in. Mounting centers.
No. E7035. List Price, \$5.00.
YOUR PRICE... \$3.80



BRUNSWICK REPLACEMENT POWER TRANSFORMERS

Power transformers for replacement on model "D" chassis for Brunswick set models 11, 12, 16, and 33. Transformer specifications: 2 1/2 V. winding for 5—224-235 or 227 and 1—247; high volt winding 300 V. each side of center tap; 5 V. winding for 1—280. Primary leads 105-130 V. Supplied in 25 cycle and 60 cycle types.

No. E1547. 6070. 60 cycle power transformer.
YOUR PRICE... \$4.12
No. E1548. 8071. 25 cycle power transformer.
YOUR PRICE... \$5.88



AUDIO CHOKE

Brunswick 6025 choke, 8,000 ohms. For models specified above.
No. E1549. NET **\$1.23**

QUALITY REPLACEMENT TRANSFORMERS

VICTOR A. B. C. POWER TRANSFORMERS



An extra large shielded transformer designed to prevent overheating. Can be safely overloaded 50 per cent. May be used in all sets using 4-226, 1-227, 2-245, and 1-280 tube.

FOR VICTOR RE-75, RE-32, RE-52, RE-45

Filament secondaries: 2-1 1/4 V. for 226's, 2-2 1/2 V. for 227's and 245's, 1-5 V. for 280. 1 high volt of 400 at each side of center tap (at 150 mls.). Primary 110 V. A.C. 50-60 cycle, Wt. 10 lbs.
No. E6102.
YOUR PRICE **\$1.25**

CARTER POWER TRANSFORMERS



Compact power transformers adaptable to almost every kind of set on the market. Usually mounted by cutting hole in chassis base sufficiently large to permit lower part of unit to extend below surface of chassis. Cadmium plated steel heat shield.

FOR 4 TO 5 TUBE SETS
Replacement power transformer for receivers using tubes 224, 227, 235, single 245 or 247 and 280. Primary: 117 volts, 60 cycles. Secondary: 650 volts, center tapped, at 45 M.A.; 5 volts, 2 amp. for 1-280; 2.5 volts, 6.75 amp. Overall size: 3 1/2" x 2 1/4" x 3 1/2". Shpg. wt. 5 lbs.
No. E1890.
List Price, \$4.75.
YOUR PRICE **\$1.58**

FOR 6 TUBE SETS
Replacement power transformer for use in sets employing 224, 227, 235, single 245 or 247 and 280 tubes. Primary: 117 V., 60 cycles. Secondary: 650 V., center tapped, at 55 M.A.; 5 V., 3 amp. for 1-280; 2.5 V., 3-5 amp. Overall size: 3 1/2" x 3 3/4" x 3 1/2". Shpg. wt. 6 lbs.
No. E1891.
List Price, \$5.35.
YOUR PRICE **\$1.68**

FOR 7 OR 8 TUBE SETS
For receivers employing standard tubes, such as 224, 227, 235, 2-245 or 247 and 280 tubes. Primary: 117 V., 60 cycles. Secondary: 700 V., center tapped, 70 M.A.; 5 V., 2 amp. for 1-280; 12.25 amp. Overall dimensions: 3 3/4" x 3 3/4" x 3 1/2". Shpg. wt. 9 lbs.
No. E1892.
List Price, \$5.95.
YOUR PRICE **\$1.90**

CARTER FILTER CHOKES



No. E1893. Small. Ideal for use in "midger" receivers. D.C. resistance 550 ohms. Inductance 22 henries at 40 M.A. Chromalium Plated Steel Shell. Height, 1 3/4". Mounting Centers, 2 1/4". Wt. 2 lbs.
List Price, \$1.95.
YOUR PRICE **58c**

No. E1895. Large. For large receivers and power amplifiers. D.C. resistance 280 ohms. Inductance 16.0 henries at 100 M.A. Height, 2 1/2". Mounting Centers, 2 1/2". Wt. 2 1/2 lbs.
List Price, \$3.75.
YOUR PRICE **\$1.10**

ACME STEP-DOWN TRANSFORMER



Reduces line voltages from 200-240 volts, 50-60 cycle, to 110-120 volts. Supplied complete with plus, 8 foot cord and 10 electricals. Simple to attach—just by plugging in. Wt. 3 lbs.
No. E600. Transformer with capacity of 150 to 200 watts.
List Price, \$10.00.
YOUR PRICE **\$3.85**

RADIOLA POWER TRANSFORMERS



FOR RCA MODELS 80-82-86

Built by R.C.A. Victor for the Radiola and Victor models mentioned. Also suitable for replacement purposes. In all sets using 4-227, 224 or pentode tubes, two 245's and one 280. There is also sufficient voltage for use with television equipment.

ALSO FOR VICTOR RE-34, 35, 39 AND 57

The secondary delivers a high voltage of 700 volts and is center-tapped, 2.5 volts for the six heater and 245 tubes, and 5 volts for the 280 tube. Primary: 110-120 volts A.C. 50-60 cycle. Equipped with colored moisture-proof leads.

Our price and R.C.A.-Victor construction makes these power transformers ideal for your replacement needs. Shpg. wt. 12 lbs.

No. E6100.
List Price, \$12.00.
YOUR PRICE **\$1.95**

FOR RADIOLA 42 AND 48

Designed and manufactured by R.C.A. for the Radiola 42 and 48 and is also used for Westinghouse, General Electric, Graybar and Victor 14, 15 and 17 receivers. This transformer is also particularly suitable for replacement purposes on all sets using six 227's, 224's, pentode or 245 tubes. Rugged construction and easily identified colored leads.

Specifications: Secondary—5 volts for 280 filament; 2 1/2 volts at 10.5 amps. for 224, 227, and 245 tubes; high voltage of 700 volts, center-tapped. Primary, 100-120 volts, A.C. 50-60 cycle, center-tapped. Dimensions: 4 1/2" x 3 3/4" x 3". Shpg. wt., 9 lbs.
No. E6101.
YOUR PRICE **\$1.65**



KNIGHT-COLUMBIA POWER TRANSFORMERS



S. G. 8

A power transformer of high grade construction and low price, especially designed for replacement in Knight and Columbia S.G. 8 receiver. Supplies 3-224, 2-245, 2-247 and 1-280. Mounted and sealed in metal shielding. Wt. 11 lbs.

No. E2300.
110 Volt A.C.
YOUR PRICE **\$3.95**

No. E2301.
220 Volt A.C.
YOUR PRICE **\$3.45**

FOR S. G. 9

An extremely durable and efficient transformer designed for the Knight and Columbia S.G. 9 receivers. Supplies 1-224, 2-227, 2-245, and 1-280. Shipping weight, 11 lbs.

No. E2302.
110 Volt A.C.
YOUR PRICE **\$5.45**

No. E2303.
220 Volt A.C.
YOUR PRICE **\$4.95**

FOR A. C.—S. G. 5

Power replacement transformers built for the Knight and Columbia Midger Tube Screen Grid Receivers. Supplies 3-224, 1-245 and 1-280 tube. Shpg. wt. 8 lbs.

No. E2304.
YOUR PRICE **\$2.65**

SPARTON POWER TRANSFORMERS

Replacement transformers of unusual high quality for Sparton receivers. Modern design and precision construction.

MODELS

931-589-591-593

Sparton B-2339. Delivers: 500 V. each side of center tap; 1.5 V. windings, C.T. for 2-182-183 or 171 tubes; 1-3 V. windings, C.T. for 4-484 or 485 tubes; 1-5 V. winding, C.T. for 1-280 tube. Primary leads, 100, 130 volts A.C.
No. E7036. YOUR PRICE **\$4.12**

Sparton B-2204. Delivers: 600 volts C.T.; 5 V. by 2 amp. C.T. and 3 V. at 8 amp. C.T. by use of small resistor. 3 V. windings can be decreased to 2 1/2 V. for use on 224, 227, 245, 235, 551 and Pentode 247 tubes. Tapped primary, 100-130 V., 60 cycle A.C.
No. E7037.
YOUR PRICE **\$2.94**

Sparton B-2358. Delivers: 600 V. each side of center tap; 1-1.5 V. windings for 2-281 tubes, C.T.; 1-1.5 V. windings for 2-280 tubes, C.T.; 1-3 V. winding for 4-484 or 485 tubes, C.T.; Prim. 100-130 V., 60 cycle A.C. Wt. 11 lbs.
No. E7038.
YOUR PRICE **\$7.06**

We can supply all types of Sparton transformers. Prices on request.

For Superhets



Power replacement transformers now available for the Knight 9 tube superheterodyne. Reflect high quality of materials used in their construction and careful, laboratory controlled production methods. Built to give long service. Mounted and sealed in metal shielding, ready for wiring to receiver.

Also for United Air Cleaner Models

ALSO FOR UNITED AIR CLEANER MODELS

These power transformers are also suitable for the United Air Cleaner Sentinel Super 7 and 9 models. Constructed to supply 2-224, 2-235, 1-227 1-245, and 1-280 tubes in the 7 tube superheterodyne, and 3-235, 3-224, 1-227, 2-247, and 1-280 tubes in the 9 tube superheterodyne. Built right—priced right. Shpg. wt., 11 lbs. each.

No. E2305. Knight or United Air Cleaner Super 7.
YOUR PRICE **\$2.94**

No. E2306. Knight or United Air Cleaner Super 9.
YOUR PRICE **\$4.70**

POWER TRANSFORMERS

FOR 4 AND 5 TUBE SETS



An unusual value in power transformers for 4 and 5 tube sets. For 3 tube sets—Delivers: 800 V. C.T.; 5 V. for 1-280; 2 1/2 V. C.T. for 2-224 or 235's, and 1-247. For 5 tube sets—Delivers: 850 V. C.T.; 5 V. for 1-280; 2 1/2 V. C.T. for 3-225 or 235's, and 1-247.

SOUND CONSTRUCTION

A carefully constructed transformer of excellent quality, ready for mounting. Its compact size makes it adaptable for installation on any four or five tube receiver covered by the specifications given. Shpg. wt. 4 lbs. each.

No. E3227.
Four Tube Type. YOUR PRICE **97c**

No. E3228.
Five Tube Type. YOUR PRICE **\$1.15**

AUDIO TRANSFORMERS AND CHOKES

KNIGHT GIANT AUDIO TRANSFORMER STEEL CASE SHIELDING



A giant audio transformer. Clean-cut construction. Looks at least twice the price. So designed as to serve as a straight audio also center-tapped for push-pull amplification. May be used in first and second stages with 227, 251, 252, 171 or 245 tubes. Large core of high grade silicon.

Completely shielded in strong and durable steel case. Ideal for quality replacements, yet at a low cost. Will modernize both A.C. and D.C. sets. Will reproduce all frequencies with absolute fidelity. Ratio: 3 1/2:1. A splendid transformer value for either replacement or original work. Measures 3 3/4" x 2 1/2" x 1 1/2". Shpg. wt., 3 lbs.

No. E4380. **YOUR SPECIAL PRICE \$128**

Semi-Open Audios

Identical in characteristics to the Knight giant audio described above except only partly shielded. An efficient transformer at a low price. Only the finest in materials enters into the construction of Knight audios. Impregnated coils give assurance of long life. Mount easily and conveniently. May be used in all standard circuits. 4 in. wide at base. 2 1/2 in. high. 1 1/4 in. deep. Offered at an exceptionally low price. Wt., 2 1/2 lbs. No. E4381. **YOUR PRICE 95c**



KNIGHT REPLACEMENT AUDIOS AND CHOKES



Carefully constructed of the best materials to precise standards. Standard construction makes these choices and transformers adaptable for replacement in practically every type of receiver. All coils are vacuum impregnated. Compact size and high quality. Equipped with brackets for convenient mounting. Average size, 3 1/4" x 2 1/4" x 1 in. Shpg. wt., about 3 lbs. each.

AUDIOS

No. E7050. 2 to 1. Completely shielded in neat metal case with soldering lugs at bottom. **YOUR PRICE 95c**
No. E7051. Push-Pull Input. Completely shielded in metal case as above. **YOUR PRICE \$1.03**

No. E3910. Interstage Audio Push-Pull. 3:1 ratio. Open frame mounting. **YOUR PRICE 84c**

CHOKES

No. E7052. Push-Pull Output. In open frame mounting. **YOUR PRICE 68c**

No. E7053. 13 Henries, 75 M.A. In open frame mounting. **YOUR PRICE 76c**

No. E7054. 8 Henries, 115 M.A. In open frame mounting. **YOUR PRICE 98c**

OUTPUTS

Primary with insulated push-back leads. Secondary, 8 and 15 ohms. Open frame mounting. **ES911. Single 245. 73c**
ES912. P.P. 245. 83c
ES913. Single Pent. 76c
ES914. P.P. Pent. 83c

PILOT TRANSFORMERS

BAKELITE CASE AUDIOS



For any circuit where highest grade parts are specified. Genuine bakelite, moisture-proof case. 3 1/2" x 2 1/2" x 1 1/2" in. high. 2 1/2" in. square. Shpg. wt., 2 lbs.

SERIES 390

No.	Type	NET. EACH
E5959	390	2 to 1
E5960	391	3 1/2 to 1
E5961	392	Output filter
E5962	394	Output trans.
E5963	399	P.P. input
E5964	401	P.P. output impd.

\$1.78

STEEL CASE AUDIOS AND CHOKES

Expertly constructed transformers and chokes. Steel cases neatly finished in black lacquer. For quality work. Average shpg. wt. 2 1/2 lbs.

NO. 422 SERIES

No.	Type	NET. EACH
ES916	422	2 to 1
ES917	425	30 Henry output choke

\$2.47

NO. 361 SERIES

ES913	361	3 1/2 to 1	\$2.73
ES914	408	P.P. input	3.23
		2 to 1	3.23
ES915	409	P.P. output	3.23

PILOT JUMBO POWER TRANSFORMERS



No. E5994. PILOT 398. For receivers employing 226, 227 and 171 tubes. Secondary windings center tapped. Rated 2 1/2 v. at 8 amp.; 1 1/2 v. at 4 amp.; 5 v. at 2 amp.; 500 v. at 60 M.A. Shpg. wt., 7 lbs.

YOUR PRICE \$5.00

No. E5995. PILOT 411. For receivers using 224, 227 and 245 tubes. 3 filament windings and one plate winding. Rated 2 1/2 v. at 12 amp.; 2 1/2 v. at 3.6 amp.; 5 v. at 2 amp.; 600 v. at 90 M.A. Shpg. wt., 8 lbs.

YOUR PRICE \$4.25

VICTOR TRANSFORMERS

Especially designed for Models R32, R32, RE35, BE75

Push Pull Input and Output



A genuine shielded Victor Audio Transformer for replacement in all Victor sets and in any other set. Primary 1,200 ohms tapped at 50 ohms for phono pickup. Secondary 2,800 ohms. Shpg. wt., 4 lbs.

18,000 ohms. Output prim. 500 ohms; sec. 0 ohms to match moving voice coil on all dynamic speakers. Used with 171, 245 and 250 tubes. No. E6103. **YOUR PRICE 69c**

First Stage



No. E6104. **YOUR PRICE 45c**

RCA-VICTOR CHOKE

30 Henry 125 Mills.



For replacement in Victor or Radiola Models R-32, R-45, R-45, RE-75 and 4 Edison sets, and for any set requiring a quality 30 Henry Choke. D.C. resistance, 400 ohms. Size, 3" x 3" x 3 1/2". Shpg. wt., 4 1/2 lbs. No. E6105. **YOUR PRICE 85c**

Philco Audio



Philco Replacement audio No. 3241 with characteristics and interconnection connections for Philco 65-86-87. Ratio 4 to 1. **MADE BY JEFFERSON** Sturdy, skilled construction is typical of Jefferson workmanship. A most efficient replacement unit. Shpg. wt., 2 lbs. No. E4606. **LINE \$3.00. YOUR PRICE \$1.45**

Remler Audio



The Remler 905 Audio is intended to replace the first audio in any receiver. Built to Remler high standards. Ample Filings faithfully and at all frequencies. Size, 2 1/2" x 1 1/2" x 1 1/2". Shpg. wt., 2 lbs. No. E3720. Regular Value, \$5.00. **YOUR PRICE 65c**

JEFFERSON Stepdown TRANSFORMER 110 V TO 12 VOLT



A heavy duty transformer with a primary 110-120 volts, 50-60 cycles A.C. Output 12 volt A.C. at 2 1/2 amps. Suitable for "A" eliminators, dynamic speakers, trickle chargers, bell ringing and toy transformers. Shpg. wt., 4 lbs. No. E413. Retail Value, \$5.00. **YOUR PRICE 85c**

Knight Universal Replacement Audio

An excellently built all-purpose audio transformer, suitable for use either as a replacement or in the construction of a new receiver. Tone quality and range meet the most exacting requirements. Compactly built for easy installation.



UNIVERSAL MOUNTING

Constructed of best grade materials. Coils are vacuum impregnated. Can be used in all standard circuits. Easily mounted. Special brackets allow for universal mounting. A great value. Worth many times our price. Wt., 1 1/4 lbs. No. E5370. **YOUR PRICE 72c**

THORDARSON-JEFFERSON TRANSFORMERS

AUDIOS

Universal replacement transformers designed especially for service men. Incorporates a novel bracket design which permits mounting in any desired position. For replacing defective obsolete or burnt out audio transformers in radio sets or amplifying systems and for building new systems.

THORDARSON



R-100

A low priced audio coupling transformer of high quality. Compact size. Measures $2\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$ " Shpg. wt. 2 lbs. No. E7029. Retail Value, \$1.75. YOUR NET PRICE. **\$1.03**

R 103 Replacement Audio

Responds well into the low and high registers without resonant peaks. Universal mounting. Measures $2\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$ " Shpg. wt., 2 lbs. No. E7017. Retail Value, \$1.18 \$2.00. YOUR NET PRICE. **\$1.18**

R 101 Push Pull Input

Equipped with Universal mounting bracket and convenient soldering lugs. Size $2\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$ " Wt., 2 lbs. No. E7018. Retail Value, \$1.32 \$2.25. YOUR NET PRICE. **\$1.32**

R-260

Audio Intergate. Has exceptional tonal fidelity and greater amplification. Compact size. $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ " Shpg. wt., 2 lbs. No. E7020. Retail Value, \$1.76 \$3.00. YOUR NET PRICE. **\$1.76**

R-300

Audio Intergate. Employs a core of the famous Thordarson "DX" metal. $2\frac{1}{2} \times 2\frac{1}{2} \times 3$ in. Wt., 2 $\frac{1}{2}$ lbs. No. E7021. List, \$4.00. YOUR NET PRICE. **\$2.35**



R-400

Especially designed for A.C. Tubes. An ideal input transformer for a 245 or 247 power tube. $2\frac{1}{2} \times 2\frac{1}{2} \times 3\frac{1}{2}$ " Shpg. wt. 3 lbs. No. E7019. List, \$4.00. YOUR NET PRICE. **\$2.35**

CHOKES

R-102 Push Pull Output

For coupling 71 or 45 tubes in push-pull to high impedance speaker or to coupling transformer of dynamic speaker. $2\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$ " Shpg. wt. 2 $\frac{1}{2}$ lbs. No. E7002. List, \$2.00. YOUR NET PRICE. **\$1.18**

R-105 Filter

For replacing filter or speaker coupling chokes carrying 75 Milliamperes, or less, of current. No. E7003. List, \$1.75. YOUR NET PRICE. **\$1.03**

R-196-30 Heary

For use in filter circuits or as an output choke. Cap. 75 M.A. D.C. Resistance, 360 ohms. Wt., 2 $\frac{1}{2}$ lbs. No. E7004. List, \$3.00. YOUR NET PRICE. **\$1.76**

Output Transformers

Output transformers for special purposes constructed to Thordarson precision in a durable, completely shielded in neat, durable cases. Will couple various types of tubes with dynamic or high impedance speakers. $3\frac{1}{2} \times 3\frac{1}{2} \times 3$ in. Shpg. wt., each, 4 lbs.

No.	Type	Purpose
E7006	T 2829	210-245 P.P. to voice coil.
E7007	T 2901	250-45-71 to 2,000 ohms.
E7008	T 2902	250-45-71 to dynamic voice coil.
E7009	T 2903	250-45-71 P.P. to dynamic voice coil.

List, \$4.00. NET EACH **\$2.35**

PENODE TRANSFORMERS

Designed to couple the new power output pentode tube to the voice coil of a dynamic speaker. Size, $2\frac{1}{2} \times 2\frac{1}{2} \times 3$ in. Shpg. wt., 3 lbs. No. E7015. T 1843. For single 247 pentode. List, \$3.00. YOUR NET PRICE. **\$1.76**

No. E7016. T 4831. For 2-247 pentodes in push-pull. List, \$3.50. YOUR NET PRICE. **\$2.06**

THORDARSON SPECIAL AUDIO REPLACEMENT



A special Thordarson value. May be used as a straight audio and also center-tapped for push-pull amplification. Serves in first and second stage with 227, 230, 231, 232, 171 or 245 tubes. All audio frequencies reproduced with true fidelity. Cool thoroughly impregnated and moisture proof. Ratio 3 $\frac{1}{2}$ -1. Enclosed in a neat, durable and attractive semi-open case. For all mountings. Overall dimensions, $3\frac{1}{2} \times 2\frac{1}{2} \times 3$ in. high. Shpg. wt., 3 $\frac{1}{2}$ lbs.

No. E7044. YOUR SPECIAL PRICE. **\$84c**

Thordarson Push Pull Inputs

T-2408—Designed to couple a stage of straight audio amplification into a stage of power push-pull using any of the existing types of power amplifying tubes. Ratio 2-1. Measures $2\frac{1}{2} \times 2\frac{1}{2} \times 3$ " Shpg. wt., 3 lbs. No. E7045. List, \$4.00. YOUR PRICE. **\$2.35**



T-4304—Same as T-2408, but possesses a ratio of 3-1. For use with 210, 246, 247 and 250 type power tubes. No. E7046. List, \$4.00. YOUR NET PRICE. **\$2.65**

Thordarson Plate Supply Transformer

Designed primarily to supply A-B-C current to two 210 type power amplifying tubes. And B current to the receiver. To be used with two 281 rectifier tubes. Conservatively rated. Cool in operation. Primary—110 volts 80 cycle A.C. Secondary—1120 v. C.T., 330 M.A., 7 $\frac{1}{2}$ v. C.T., 2 $\frac{1}{2}$ amp.; 7 $\frac{1}{2}$ v. C.T., 2 $\frac{1}{2}$ amp. Measures $4\frac{1}{2} \times 5\frac{1}{2} \times 5\frac{1}{2}$ " Shpg. wt., 18 lbs. No. E7047. List, \$9.00. YOUR NET PRICE. **\$5.29**

Thordarson

Microphone Transformers

T-2357 Single Button

For single button microphones. Primary impedance—200 ohms at 300 cycles. Turn ratio: 64 to 1. Impedance ratio: 4,000 to 1. Dimensions, $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ " high. Shpg. wt., 2 lbs. No. E7011. List, \$3.00. YOUR PRICE. **\$1.76**

T-3020 Double Button

For use with 2 button microphones. Primary impedance: 200 ohm each side. Turn ratio: 45 to 1. Impedance ratio: 2,000 to 1. $2\frac{1}{2} \times 2\frac{1}{2} \times 3\frac{1}{2}$ " high. Shpg. wt., 3 lbs. No. E7010. List, \$5.00. YOUR PRICE. **\$2.94**

T-3180 Double Button

Microphone coupling transformer for use with double button Western Electric, Kellogg or other similar microphones. Primary impedance: 200 ohms each side. Turn ratio: 27 to 1. Impedance ratio: 750 to 1. $3\frac{1}{2} \times 3\frac{1}{2} \times 3\frac{1}{2}$ " high. Shpg. wt., 4 lbs. No. E7012. List, \$8.50. YOUR PRICE. **\$5.00**

Jefferson Star Shielded Audio



An outstanding value in a high quality audio transformer for any set, A.C. or D.C. Machine wound coil assures uniformity and accuracy. Transformer is shielded in its case. Shpg. wt., 2 lbs. $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ "

No. E4420. 3 to 1 ratio. List, \$2.00. YOUR PRICE. EACH **\$1.18**

No. E4391. Shielded Universal Output Transformer. For 112, 171, 231, 233, 238, 245, 247 or 250 tubes in single or push-pull. Wt. 3 lbs. List, \$5.00. YOUR PRICE. **\$2.76**

Jefferson Universal

Tapped Audio

Very popular for push-pull replacement work on both A.C. or D.C. receivers. May be used as straight audio or as a center tap. Mounts in every conceivable position. Supplied with both lugs and leads. Size, $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$ " Shpg. wt., 2 lbs. No. E4400. List Price, \$1.95. YOUR PRICE. **\$1.03**

No. E4392. Universal Tapped Output. Similar in construction to transformer above but of output 150%. List, \$1.95. YOUR PRICE. **\$1.03**

JEFFERSON REPLACEMENT AUDIO

A small compact transformer—just the kind to fit into tight places. Its low height makes it a favorite for sub-base installation. The sturdy skilled construction is typical of Jefferson workmanship. The core is of silicon steel with coil ample for all replacement purposes.

COMPACT-UNIVERSAL



Its small size and recognized high quality makes this audio a favorite with service men. Universal mounting permits installation in the most convenient position, either horizontal, vertical or on end. Size, $2\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ " in. Shpg. wt., 2 lbs. An extraordinary value. No. E4423. YOUR NET PRICE. **68c**

SENECA QUALITY APPLIANCES



SENECA 1000 WATT NEW ADJUSTABLE AUTOMATIC IRON

Full 1000 watt — yet consumes no more current than a 660 watt iron. New type high arc thermostat. Lifetime unit embedded in vitreous carbonyl. 25 heats. Comfortable in use. Standard 6½ lb. weight. Automatic heat control. The housewife will appreciate this new automatic appliance which makes for much greater ease in ironing and at the same time greater economy.

Beautiful chromium finish. Graceful round hood. For every type of fabric. For 110 volts A.C. 7½ in. base length. Shpg. wt., 8½ lbs.

No. E6622.
Retail, \$5.95.
YOUR PRICE
ONLY

\$3.90

BREAD AND ROLL TOAST BAKER



Something new! Will toast any size bread or any size roll. Beautiful round design, attractively chromium plated. Highly polished bakelite crumb tray and bakelite handles. Cleans easily. Fine quality mica heat unit. Height, 7½ in.; length, 11½ in.; width, 7½ in. Shpg. wt., 5 lbs.

No. E6639.
Retail, \$3.95.
YOUR PRICE

\$3.45

Adjustable Automatic Iron



An adjustable automatic that maintains the heat at which the dial is set—high, medium or low. Highest quality mica unit. Beautiful round hood. Beveled base. Extra heavy thermostat. Black and ivory handle. Chromium plated. Shpg. wt., 8 lbs.

No. E6632.
Retail, \$5.95.
YOUR PRICE

\$3.35

HEAT PROOF CHINA PERCOLATOR SET



Smart and of great utility. China is so tough in texture as to withstand high heat without cracking or breaking. Fittings are finished in sparkling chromium. Consists of Percolator, Sugar and Creamer, and Chromium Tray. Sugar and Creamer match the beautiful floral design of Percolator. 7 cup capacity. For 110 volt. A.C. or D.C. 450 watt. Shpg. wt., 15 lbs.

No. E6635.
Retail, \$17.95.

YOUR SPECIAL PRICE

\$10.80



AUTOMATIC EGG COOKER

Cooks eggs exactly to your taste. Thermostatically controlled. Current shuts off automatically when eggs are done. Cooks from one to four eggs. Beautiful chromium plated. Bakelite aluminum lift rack and porcelain inside cup. Shipping weight, 4½ lbs.

No. E6633.
Retail, \$5.95.
YOUR PRICE

\$3.60



AUTO FLIP TOASTER

Handles two full sized slices of bread. Positive turn-over action. Beautifully paneled. Finished in heat treated enamel and chromium. Quality mica heat unit. 7½ in. high. Exceptional value. Shpg. wt., 4 lbs.

No. E6639.
Retail, \$3.95.

YOUR PRICE

\$2.35

THERAPEUTIC HAND LAMP



Offers health-giving, infra-red rays, which penetrate deep into the tissues of the body with healing warmth. Highly polished aluminum bowl with mirror-like finish reflects rays perfectly. Nickel plated push button switch. "Easy Grip" handle. With cord and plug. Shpg. wt., 3 lbs.

No. E6640.
Retail, \$2.45.
YOUR PRICE ONLY

\$1.60



SUPER SAFE WETPROOF HEAT PAD

Interlined with Samsonite. 3 heats. Chinichilla elder down cover. Patented "Tie Slip" cover included. Measures 12 in. x 15 in. Cellulose wrapped. With cord and plug. 110-125 volt A.C. or D.C. 55 watt. Shipping weight, 2 lbs. Extremely necessary in every home.

YOUR PRICE

\$3.45

No. E6634. Orhdid.
No. E6636. Green.
Retail, Each, \$6.00.

INDICATOR WAFFLE IRON



A splendid sales item. A beautiful all-metal lowboy Waffle iron with gracefully designed metal handles. Heat indicator tells when to bake. Nichrome units mounted on high quality refractory plate. Die cast aluminum grids. Black front panel and porcelain-like finish. Shpg. wt., 6½ lbs.

No. E6623.
Retail, \$5.95.

YOUR PRICE

\$3.65

3 Heat Heating Pad

Absolutely safe. Adjustable to 3 heats. Controlled by two thermostats wired in a series. Fluffy, slder-down cover with cushion constructed blanket interlining. Measures 12 in. x 15 in. Complete with silk cord and 3 heat switch and plug for 110 V. A.C. or D.C. 55 watt. Shipping weight, 2 lbs.



Green in color.

No. E6621.
Retail, \$3.95.
YOUR PRICE

\$2.27

AUTOMATIC WAFFLE IRON

An automatic Waffle Iron almost human in its operation. Light tells when to pour batter and when waffle is done. Thermostatically controlled. Graceful lowboy design; finished in sparkling chromium. Bakelite handles that harmonize. Nichrome units. Die cast aluminum grids. Height over all 4 in.; diameter 11 in.; diameter of grid 8½ in. For 110 volt A.C. only. Bakelite connector, attachment plugs and 6 ft. Rayon heater cord supplied. Shpg. wt., 7 lbs. This beautiful waffle iron will make a handsome gift that will be treasured in any home.

No. E6637.
Retail, \$9.95.
YOUR PRICE

\$6.85



\$6.85

FEATURE VALUES IN ELECTRICAL APPLIANCES

ULTRA-VIOLET SENECA SUN LAMP FLOOR MODEL



Radiates health. Seneca quality and dependability is expressed in this handsome Ultra-Violet Sun Lamp using the new mercury vapor bulb. Medical authorities agree that the health giving, ultra-violet rays are essential for well being. Beautifully finished in stately bronze. Complete with Samson Type 140 Sun Lamp Bulb, 8 ft. Cord and special transformer. Height 67 in. Diam. of reflector 11 in. For 110-120 volts A. C. 50-60 cycle, 100 watts. Shpg. wt. 25 lbs. No. E8800.

YOUR SPECIAL PRICE
TABLE MODEL

Ultra-Violet SUN LAMP
The Seneca Ultra-Violet Sun Lamp, exactly as described above, in a table model. Health giving ultra-violet rays emitted from a lamp which is at once convenient and lends distinction to its surroundings. Can be tilted to any desired angle. Mercury Vapor Type Sun Lamp bulb. Height overall 32 1/2 in. Shpg. wt. 15 lbs. Featured at a Special Low Price.

ES801
YOUR PRICE **\$10.50**

ELECTRAHOT QUALITY APPLIANCES

When you buy an Electrahot product you are assured of receiving the best value obtainable in electrical goods. The devices listed below make ideal gifts. Not only beautiful, but also efficiency and economy are reflected in these items.

CHROMIUM PLATED FLIP FLOP TOASTER



Inexpensive—but speaks quality. Toasts two large slices at once. Automatically turns toast with lowering of door. Beautiful lustrous finish.

Mica Element
Nichrome element wound on genuine India cut mica. Toast holders are electrically spot-welded. 110-120 volts, 550 watts. Shpg. wt. 3 1/2 lbs. No. E2700.

YOUR SPECIAL PRICE **98c**

DOUBLE SANDWICH GRILL AND TOASTER



Distinctive design—Beautiful Lustrous finish. Two sandwiches grilled at once, all delicious juices preserved. Toasts two slices of bread. Nichrome wire element. 110-120 volts, 400 watts. Shpg. wt. 6 lbs.

No. E2701
SPECIAL **\$3.65**

HEAT INDICATING CHROME WAFFLE IRON

Handsome chromium plating. Cast aluminum grill makes full plate size waffles. Heat indicator spots tell when to bake. Nichrome wire element. Bakeable handles. Shpg. wt. 6 lbs. No. E2702. \$8.50 Value.



SPECIAL NET **\$3.35**

NEW AUTOMATIC TOASTMASTER



The Hand of Magic has been brought into the electrical appliance field with the introduction of the seasonally new "Flexible Clock." Simply put in a slice of bread, press down a single lever, and let the "Flexible Clock" take charge.

Completely Automatic

When the slice of toast is exactly as it should be, up it pops and the current is shut off automatically. Enclosed non-radiating heavy chromium plated. Shpg. wt. 6 lbs.

open, handsomely designed.
No. E2510. 1 Slice Model. **\$7.89**
New List, \$11.50. NET EACH.
No. E2500. 2 Slice Model. Shpg. wt. 7 lbs. **\$10.98**
List. \$16.00. NET EACH.

NEW AUTOMATIC WAFFLEMASTER



Delicious golden waffles can now be made right on the table. Wafflemaster makes them automatically.

COMPLETELY AUTOMATIC

No guessing—a light signal and automatic shut off make burnt waffles impossible. Waffles are always uniformly baked. Slightly designed high polish chromium finished. Complete with cord and plug. Shpg. wt. 0 lbs. No. E2501. Retail Price, \$14.50.

YOUR PRICE **\$9.95**

Automatic Electric Eggster

Automatic timing—Eggs prepared in 1/2 the time. Prepare your eggs right at the breakfast table. No fussing—no watching the clock. Cooks eggs with steam 4 egg capacity. The circuit is automatically broken when done. Beautifully designed. Made of porcelain enamel with a polished metal top. Complete with cord. For 110 volts A.C. only. 100 watts. Shpg. wt. 3 lbs. No. E5662.



YOUR PRICE **\$1.98**

ULTRA-VIOLET SIRIAN LAMPS

New—the ultimate in home lighting. The Arcturus "Sirian" lamp provides both modern illumination and healthful sun-bathing directly from your electric light socket. No additional equipment required. The beneficial ultra-violet rays are mild, absorbed without dangers. Special glass precludes use of goggles.

Safe as the Sun—Use in Any Socket
The closest approach to the sun—and just as safe. Fits into any lighting socket on any lighting line, replacing incandescent bulb. Shpg. wt., each 1 1/2 lbs.

BLUE GLASS	WHITE GLASS
No. Watts	No. Watts
NET	NET
E570 60 \$1.03	E574 60 \$0.62
E571 100 1.37	E576 100 .85
E572 150 1.88	E578 150 1.37
E573 300 3.25	E579 300 2.57

9 CUP COLONIAL PERCOLATOR

Magnificently designed—latest type. Instantaneous circulation through a double wall valveless pump, makes delicious coffee quickly. New V-type design. New non-drip spout, etched motif, engraved base and highly polished aluminum finish. 9-cup capacity. Complete with standard cord set. Makes a beautiful gift. A useful and distinctive addition to any home. 110 volts, 400 watts. Shpg. wt. 4 lbs. No. E5663.



SPECIAL PRICE **\$3.68**

Rapid Ray Heater

Quick heat—Efficiency at a low price. The combination of the deep reflector and the quick heating feature makes this a very effective heater. The wide base prevents slipping.



Chromium Plated
Brilliant finish of chromium plate reflector will not tarnish. Easy to clean. A most faithful servant for those chilly days, at an astounding low price. Height 13". Reflector 11 1/2" diameter. 110 volts, 550 watts, A.C. or D.C. Complete with cord. No. E8975.

SPECIAL LOW PRICE **\$1.35**

Electrahot 600 Watt Automatic Iron

Beautifully chromium plated. Great heat storage capacity. Set dial button at heat required. Automatically thermostat keeps it there. Steamline tapered point. Complete with cord. 110-120 volts A.C. only. Shpg. wt. 7 lbs. No. E2703. Retail, \$5.95. An Unbeatable value. Each **\$2.65**



8-LIGHT MAZDA XMAS TREE OUTFITS

Eight colored lamps on long cord with plug and extension attachment. Several strings of lights may be combined. For standard 110 volt current. With genuine Mazda bulbs.

No. E2915. YOUR PRICE **66c**
A full extension set with spring contact sockets—bulbs cannot work loose. With 8 Mazda lamps. No. E2916. YOUR PRICE **93c**
No. E2914. Box of 10 Mazda Lamps. YOUR PRICE **58c**



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Figure Your Parcel Post Charges From This Chart
Parcel Post Rates
 Packages Under 8 Ounces, Allow 1/4¢ Each 2 Ounces

Parcel Post Shipments
 If shipment by parcel post is desired please send additional remittance to cover postage; any surplus will be promptly refunded. If insufficient remittance is enclosed it will be necessary to send C.O.D. for the balance.

Express
 If you have an express agent at your station it is not necessary to include transportation with your order. All express shipments are insured. It is preferable to ship radio sets and bulky merchandise by express. All shipments containing acid or inflammable merchandise must be shipped express or freight as it is not acceptable for parcel post shipment.

Freight
 Merchandise should be sent by freight if rapid shipment is not necessary and the order weighs near 100 pounds or more. The minimum freight charge is for 100 pounds. If you have a freight agent, do not send shipment charges. Your freight agent will collect. If you are on a prepaid station send advance charges. Any balance will be promptly refunded.

Foreign Orders
 All foreign orders must be accompanied by at least 50% remittance in U. S. exchange. Orders for less than \$25.00 must be paid for in advance. All quotations net. F. O. B. Chicago.
 Foreign orders receive preferred attention and are packed to insure prompt and safe delivery.

WEIGHT IN POUNDS	ZONES								
	First, Up to 1 MILES	Second, 50 to 100 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	Over 1800 MILES
1	8¢	8¢	9¢	10¢	11¢	12¢	14¢	15¢	15¢
2	10¢	10¢	11¢	12¢	13¢	14¢	16¢	17¢	17¢
3	11¢	11¢	12¢	13¢	14¢	15¢	17¢	18¢	18¢
4	12¢	12¢	13¢	14¢	15¢	16¢	18¢	19¢	19¢
5	13¢	13¢	14¢	15¢	16¢	17¢	19¢	20¢	20¢
6	14¢	14¢	15¢	16¢	17¢	18¢	20¢	21¢	21¢
7	15¢	15¢	16¢	17¢	18¢	19¢	21¢	22¢	22¢
8	16¢	16¢	17¢	18¢	19¢	20¢	22¢	23¢	23¢
10	18¢	18¢	19¢	20¢	21¢	22¢	24¢	25¢	25¢
11	19¢	19¢	20¢	21¢	22¢	23¢	25¢	26¢	26¢
12	21¢	21¢	22¢	23¢	24¢	25¢	27¢	28¢	28¢
13	22¢	22¢	23¢	24¢	25¢	26¢	28¢	29¢	29¢
14	23¢	23¢	24¢	25¢	26¢	27¢	29¢	30¢	30¢
15	24¢	24¢	25¢	26¢	27¢	28¢	30¢	31¢	31¢
16	25¢	25¢	26¢	27¢	28¢	29¢	31¢	32¢	32¢
17	26¢	26¢	27¢	28¢	29¢	30¢	32¢	33¢	33¢
18	27¢	27¢	28¢	29¢	30¢	31¢	33¢	34¢	34¢
19	28¢	28¢	29¢	30¢	31¢	32¢	34¢	35¢	35¢
20	29¢	29¢	30¢	31¢	32¢	33¢	35¢	36¢	36¢
For Each Additional Pound Add	1¢	1¢	2¢	3¼¢	5¢	7¢	9¢	11¢	11¢

10 TUBE KNIGHT SUPERHETERODYNE

NEW TYPE PENTODE TUBES

New Superphonic Tubes POWER PENTODE RECEPTION

The 1933 Knight 10 incorporates the famous new Double Pentode Power Audio Circuit licensed by RCA, Westinghouse, General Electric, and affiliated companies. This new radio development means double power, keener sensitivity, absolute selectivity. Not only does the Double Pentode Audio produce a greater noiseless volume but it spreads over a far wider range of frequencies leading to true tonal reality. Double Pentode power and the new triple grid Superphonic tubes make the amazing Knight 10 circuit possible.

SUPERHET AT ITS BEST

Everything that is best and newest in radio today is found in the Knight 10—Seven Superphonic tubes for quiet, super-sensitive, economical operation; Automatic Uniform Volume Control to prevent blasting and fading and to equalize volume; Inter-station Noise Suppressor to silence static and noise; Full Range Tone Control; unique Spot-light Tuning Visual Dial; and the Bi-acoustically arranged Jensen Dual Dynamic Speakers, for perfect tonal rendition. For detailed chassis description, see pages 76-77.

SILENT TUNING

The new Inter-Station Noise Suppressor renders quiet operation between stations, cutting out static and electrical interference.

BEAUTY

The beautiful cabinet is of the new 6 leg design, with matched walnut panel, and lacewood overlays. 42 in. high, 24 1/2 in. wide, and 13 in. deep.



MATCHED DUAL OVERSIZE SPEAKERS

Two Bi-acoustic oversized Jensen speakers especially designed for the Knight 10, effectively master the complete tonal range. One speaker records the high notes, and the other registers the low end of the scale. The result is amazing, because many of the minute overtones lost in most radios are captured clearly and reproduced faithfully.

TRIPLE GRID POWER

The newest thing in radio is the Superphonic triple grid tube. The Knight 10 employs these tubes with wonderful results. They double sensitivity and selectivity, cover the widest tone range yet possible, create tremendous reserve power, economize in power consumption, and operate more quietly.



COMPLETE LESS TUBES

The Knight 10 is offered here complete in cabinet, with speaker, but without tubes.

No. E9742.

Retail Price, \$87.50.

YOUR PRICE...

\$39⁹⁵

WITH R. C. A. TUBES

The Knight 10, complete with the following genuine RCA tubes: 3-56, 1-57, 3-58, 2-47, 1-80.

No. E9743.

Retail Price, \$102.25.

YOUR PRICE....

\$46⁹⁵

\$39⁹⁵

A SUPER VALUE

This year, more than ever before, it has become apparent that quality must be sustained at the highest level possible, and at the same time at a price that will fit the times. The Knight 10 attains that ideal wonderfully.

SPOT LIGHT FULL VISION DIAL...

FOR
60 Cycle
A. C.

ELECTRIC CLOCKS

PURCHASED 20,000 CLOCKS!

We bought 20,000 fine electric clocks for cash. We pass the enormous savings on to you. A line of real electric clocks built by the house of Lincoln which has already served over two million satisfied users. Variety, quality, and price feature this smashing presentation. Clocks for every purpose, clocks for every occasion, decorative as well as business-like, and at prices below cost of manufacture, warrant carrying large stocks. Stock up on the complete Lincoln line. Buy in quantities. Better your profits. Write for special quantity quotations today.

FULL 14 INCH TAMBOUR



Mahogany Finish

A \$6.00 Value

A smart accurate Tambour electric clock. Appropriate for mantel or secretary. Beautifully made and proportioned, and a delightful surprise at the price. Ideal for the holiday trade. Will sell at handsome profits. Shpg. wt. 4 lbs.

No. E3256.
RETAIL LIST, \$6.00.

The accurate Lincoln movement is contained in a quality case of excellent mahogany finish. Dimensions, 14 in. long, 5 1/2 in. high. Dial 3 in. with gilt bezel and convex lens. Sweep second indicator hand. Supplied with 6 ft. cord and plug.

SENSATIONAL PRICE. EACH **\$1 95**

BAKELITE CASE ELECTRIC ALARM

A very handsome, easy to operate, electric alarm clock and at one half the usual distributor's price. Of bakelite, attractively finished in Walnut with aluminum 3% in. dial.



Sweep Second Hand

With sweep second indicator and convex crystal lens. Size 7 in. high, base 5 1/2 in. Equipped with 6 ft. cord and plug. Shpg. wt., 3 lbs. The low price ever asked for genuine electric alarm clock. No. E3276. SPECIAL NET **\$1 28**

MOULDED CASE UTILITY MODEL



Great value and beauty. Must be seen to be really appreciated. The perfected Lincoln Electric movement in a walnut Moulded Novalite case with clear crystal lens and attractive Sepia Tone Numerals. Well dimensioned measurements.

ing 4 1/4 in. high and 4 in. wide. Flasher type indicator and 6 ft. cord and plug. A smashing value, certain to sell and with enormous profits. Shpg. wt. 2 lbs. No. E3268.

58c
YOUR SPECIAL PRICE.

Store and Office Clocks



Will attract attention everywhere. Easy to read. Always accurate electric time. Of metal with stately bronze finish. Metal dial and sweep second indicator. Double strength glass lenses in three convenient sizes at prices that can't be beat.

No. E3251, 9 in. Dial. Shpg. wt. 6 lbs. LIST NET **\$3 45**
No. E3252, 12 in. Dial. Shpg. wt. 9 lbs. LIST NET **\$5 25**
No. E3253, 15 in. Dial. Shpg. wt. 14 lbs. LIST NET **\$7 25**

DELUXE TABLE MODEL



Another beautiful Lincoln Clock. Always accurate electric time. Of attractive Moulded Walnut Novalite with lens of convex crystal and spun silver finish dial, 3% in. diameter. Dimensions:

5 1/2 in. high, base 6 in. Shpg. wt., 3 lbs. No. E3261. YOUR PRICE **\$1 18**

ART MODEL

Of unusual design, oblong in shape with moderate lines. Absolutely correct time always direct from the electric socket. The Lincoln synchronous movement is housed in a rich Walnut Novalite case, set off by a deep set oblong dial and oblong crystal lens with strikingly formed numerals. Height 5 1/2 in., base 4 in. Shpg. wt., 3 lbs. No. E3259.



74c
LOOK AT THIS PRICE!

SQUARE MODEL

Another popular store and office electric clock. The fine Lincoln movement in a Mahogany finish wood case, 15 1/2 in. cube square; 14 in. square metal dial; double strength glass lens and sweep second hand. An extraordinary value.



No. E3254. Retail Value, \$15.00. YOUR PRICE ONLY **\$3 95**

NO. 80—A BEAUTY

A popular seller. Attractively patterned, full size accurate electric clock and the price has hit bottom. Great quality throughout. Exact time from the electric light socket. Costs but a trifle to operate. In Moulded Novalite, walnut finish spun silver 3% in. dial with convex crystal lens. Height 5 1/2 in., base 5 1/2 in. Shpg. wt., 3 lbs. No. E3262. A SMASHING VALUE. ONLY **\$86c**



ELECTRIC TIME IS CORRECT TIME

AT GIVE AWAY PRICES

For
60 Cycle
A.C.



SENSATIONAL UNBEATABLE PRICES

Genuine Lincoln Electric Clocks at prices way under the manufacturer's costs. We bought 20,000 clocks at once and for cash. Our savings are your savings! This great electric clock presentation consists of beautifully patterned cases containing the famous Lincoln synchronous electric clock movements. Constant correct time from any 60 cycle, 80 to 135 volt A.C. light sockets, universal practically everywhere.

No bother, no fuss—accurate service day in and day out, once the plug is inserted in the A.C. light socket. Prices are way down. Place a clock in every room. There is one for every purpose and place. Buy in quantities and save money. Order samples today and ask us for quantity prices.

SUPER VALUE KITCHEN CLOCKS

All Metal Model

A fine electric clock suitable for either kitchen or office. Another outstanding price value. All of metal, durably constructed by



for long time service. read-embossed numerals. No glass to break. Flasher indicator. Supplied with 6 ft. cord and plug. Shpg. wt. 4 lbs.

No. E3263. Green.
No. E3264. Ivory.
NET, EACH, ONLY.

78c

DeLuxe Model
A neat, wall model electric clock, ideal for kitchen use. Durable metal case in beautiful finishes. Full 9 inches square. Buff dial and crystal lens. In two attractive colors, complete with 6 ft. cord and plug. Available in two models. Shpg. wt. 4 lbs. each.



No. E3265. Ivory.
No. E3266. Green.
List, \$3.50.
YOUR PRICE, EACH

\$1.35

Flasher Model

No. E3267. Ivory.
No. E3268. Green.
List, \$3.50.
YOUR PRICE, EACH

\$1.08

DELUXE ALARM CLOCK BAKELITE CASE



Attractive modern design. Efficient electric time always. Ideal for bedroom use—no disturbing tick. Gentle buzzer alarm.

Walnut Bakelite

Of bakelite, smoothly finished in walnut. 3 1/2 in. silver finish dial and convex crystal lens. Sweep second indicator hand. Size 6 1/2 in. high, base 5 1/2 in. Supplied complete with 6 ft. cord and plug. Shpg. wt. 3 lbs.

\$1.78

No. E3267.
YOUR SPECIAL PRICE.

QUANTITY PRICES

Increase your profits. Carry display stocks for rapid sales. These beautiful clocks will sell twice as fast when properly displayed. Suggested as sale builders for other lines or as premiums. Write today for quantity prices! Buy in quantities! Increase your sales and enjoy larger profits.

UNBEATABLE VALUES

GOTHIC MODEL



A genuine electric clock at the season's most sensational price.

For personal use; sell for large profits; exploit your business. Give these clocks to your customers as premiums

or prizes. The cost is small. Walnut 5 1/2 in. high, 4 in. base. 2 in. deep. Shpg. wt. 2 lbs.

A \$2.50 VALUE

No. E3265.
A SUPER VALUE.
ONLY

49c

ARISTOCRAT

18
Inch
Tambour
Model



The Aristocrat of electric time pieces. Style and quality at an unequalled price. The famous, accurate Lincoln electric movement in a Tambour shaped solid wood case with hand rubbed mahogany finish. Attractive walnut overlays. Buff dial with embossed black numerals. Convex crystal with gold bezel and sweep second hand indicator. Ample proportioned, measures 7 1/2 in. high with a base fully 18 in. With 6 ft. cord and plug. Shpg. wt. 7 lbs.

No. E3276.
Retail Value, \$9.00.
YOUR PRICE

\$3.68

CLOCK MOVEMENTS

Lincoln synchronous electric clock movements completely assembled ready for case mounting. Furnished with all necessary screws and nuts and six feet of cord and plug. Rear start and set. Change to correct and economical electric time at small cost.

To Replace Spring Wound Movements: Type CW

A movement extensively used in marble and Tambour clock cases as well as for mirror frames, lamps, etc. Dust proof housing. 3 1/2 in. diam., 1 1/2 in. deep, overall 2 1/2 in. deep, 4 in. bezel. Convex crystal lens. Flasher type indicator. Shpg. wt. 2 lbs.

No. E3277.
YOUR PRICE

\$1.30

Type DW

With dial and back plate—for Tambour, wood and marble cases. 4 in. bezel. Overall depth 2 1/2 in., back plate diameter 4 1/2 in. Convex crystal lens and flasher type indicator. Shpg. wt. 2 lbs.

No. E3278.
YOUR PRICE

\$1.15

Type J

Large dial and bezel—5 1/2 in. dia., 2 1/2 in. deep with back plate. Diameter of back plate, 4 1/2 in. including flange. Aluminum dial with embossed numerals. Convex crystal lens. Sweep second hand. Shpg. wt., 3 lbs.

No. E3279.
YOUR PRICE

\$1.95

Grandfather Clock Movements with Dial

A complete cabinet unit—comprising a handsome bronze etched square dial and movement assembly ready to install in Pier and Radio Cabinets, Secretaries, Desks, etc. Full sweep second hand. Graceful skeleton hour and minute hands. Rich appearance. Wt., 5 lbs.

No. E3280.

7x7 in. dial

\$2.35

No. E3281.

8x8 in. dial

2.85

No. E3282.

9x9 in. dial

3.35



ENJOY IT'S CONVENIENCE AT LOW COST

KNIGHT 10 tube

SUPER POWER...

CHASSIS

Sparkingly new and brilliantly successful: Class "B" Audio Circuit, Quiet Automatic Volume Control, Interstation Noise Suppressor, New Super-phonie tubes, Dual Dynamic Speakers, Spotlight Tuning—and more! The Knight 10 is up at the fore among the leaders in modern quality radio.

The tremendous tonal output of the Knight 10 is handled by a pair of Jensen dynamic speakers bi-whole frequency arranged to cover the liver each note with a fidelity and purity never before attained in the difference, made possible only by Dual Dynamic Speakers used in the Knight 10.

FULL RANGE TONE CONTROL

EXTREME OPERATING EFFICIENCY

TRIPLE GRID TUBES



DUAL DYNAMIC SPEAKERS

A MATCHLESS SUPERHETERODYNE

The Superhet circuit of the Knight 10 is licensed by R.C.A., Westinghouse Electric, General Electric, and affiliated companies. This means that it embodies every single new radio feature yet developed by the best engineering skill in the world. The new Super-phonie tubes increase efficiency. Automatic Uniform Volume Control prevents blasting and fading. Inter-station noises and static are eliminated by the Inter-station Noise Suppressor. Tuning is made simple by the unique Spot-light Full Vision Dial. Full Range Tone Control and the Bi-acoustic speaker arrangement produce the most brilliantly real tone in radio. And all these wonderful results are achieved in a compact shielded chassis measuring 13 in. wide, 9 1/2 in. deep and 7 in. high.

PENTODE AUDIO POWER

The new Double Pentode type audio circuit is featured in the Knight 10. Its characteristics are a greater undistorted power output, and an ability to reproduce tone as flawlessly and accurately at low volumes as at high.

PERFECTED TONE CONTROL

You can accentuate the tones you desire to hear by the simple manipulation of a perfected Tone Control which emphasizes treble, bass or intermediate as you prefer them. It gives an individual touch to radio performance.

SPOTLIGHT TUNING DIAL

Note the ease with which you bring in station after station, and the unerring accuracy of the unique full vision spotlight dial. Each station's number is brightly illuminated as it is reached. Tuning is therefore easy and pleasant.

NEW PENTODE TUBES

The use of the new Super-phonie tubes in the Knight 10 assures greater selectivity and sensitivity, quieter operation, improved volume control, better tone quality, and real economy in reduced power consumption. 1-58 tube is used in an R.F. stage, 1-57 in the First Detector, 1-56 as Oscillator, 2-58 as I.F. Amplifier, 1-56 as Second Detector and A.V.C., 1-58 as First Audio, 2-47 as Double Pentode Output, and 1-80 Rectifier.

COMPLETE, LESS TUBES

The Knight 10 chassis is offered here with Jensen Dual Dynamic speakers, but without tubes.

No. E9740.

Retail Price, \$65.00.

YOUR PRICE.....

\$29⁸⁵

COMPLETE WITH RCA TUBES

Here is the Knight 10 chassis with Dual Jensen speakers and 3-56, 1-57, 3-58, 2-47, and 1-80 RCA tubes.

No. E9741.

Retail Price, \$79.75.

YOUR PRICE.....

\$37¹⁸

\$29⁸⁵

MATCHED DUAL DYNAMIC SPEAKERS

SUPERHETERODYNE

Flawless Performance

Every ounce of engineering genius available has been concentrated on the new Knight 10. The results are amazing. Consider the quiet Automatic Volume Control which eliminates blasting and fading. Notice the new Interstation Noise Suppressor which abolishes noise and static between stations, and also the new Super-phonie tubes, operating more quietly and with double the sensitivity and selectivity hitherto possible. All of these features built up masterfully around the RCA Licensed Superhet circuit, assure you long-lived radio pleasure.

Exquisite Console

A fine radio receiver deserves a fine console. The cabinet pictured at the right is a veritable masterpiece of furniture-making. It features six beautifully turned legs braced by a graceful curved stretcher. The front panel is of splendidly matched walnut flanked by curved pilasters. A shaped stretcher and a cut-out grille further enhance the rich design. The cabinet stands 41 in. high and is adapted acoustically for use with the dual speakers of the Knight 10.

Power to Spare Sparkling Tone

The advanced superheterodyne circuit achieves surging volume and power far in excess of normal demands. It is always under control by means of the Automatic Volume Regulator which prevents blasting and fading. With this flawless background of power, Knight tone is exquisite, real and vital, projected through Dual Dynamic-Speakers arranged to handle the whole range of tonal frequencies. Then, too, perfected Tone Control further completes your radio pleasure. There is a distinguished difference in the broadcast reception of the Knight 10 that you will be quick to perceive and enjoy.

New Super-phonie

Triple Grid Tubes

Seven of the new type triple Screen Grid Super-phonie tubes are employed with a mighty effect in the Knight 10. They double the sensitivity, create keen-cutting selectivity, make possible perfect automatic volume control, quieter operation, greater economy, vast reserve power, and above all, a purity of tone that aspires and attains to reality. There is an absolutely new quality of tone and power punch in the Knight 10 superhet that is unapproachable in other radio sets not using the newest super-phonie tubes. You can be proud of the Knight 10. It is new in every respect and out in front of the radio field.

Interstation Noise Suppressor

A wonderful new device has been incorporated in the new Knight 10 circuit. It is the Interstation Noise Suppressor regulated from a knob on the front panel. It rejects noises and static between stations and allows you to tune from one program to another with absolutely quiet operation, free from disturbance and hum. This device contributes remarkably toward preserving the wonderfully pure tone which is inherent in Knight performance.

Complete Less Tubes

The Knight 10 is offered in the console pictured above together with dual Jensen speakers but without tubes.

No. E9744.
Retail Price,
\$110.00.

YOUR PRICE.....

\$49⁴⁵

Complete with RCA Tubes

Here the Knight 10 is offered complete in console with dual Jensen speakers and 3-56, 1-57, 3-58, 2-47, and 1-80 RCA tubes.

No. E9745.
Retail Price,
\$124.75.

YOUR PRICE.....



Supersensitive Dual Speakers

Every new Knight 10 is equipped with two famous Jensen dynamic speakers in dual arrangement, designed to operate bi-acoustically and to handle adequately the tremendous output of the circuit. These speakers are scientifically pitched, one to cover the higher register, the other to include all of the lower frequencies. You will marvel at this latest radio innovation and be impressed with the wonderful manner in which it makes sheer tonal realism of the air waves which it picks up. Knight 10 tone is further enhanced by the Full Range Tone Control which lends an individual touch to the performance, emphasizing subtly high or low notes as you may desire.

COVERS ENTIRE AUDIBLE RANGE...

CLASS B' AMPLIFICATION

12 TUBE

KNIGHT

20 WATTS UNDISTORTED OUTPUT



The famous new Class "B" type power amplification licensed by RCA, Westinghouse, and General Electric, is incorporated mightily in the new Knight 12. It is absolutely capable of a 20 watt output and a more complete and life-like tone than has hitherto been possible in any other type of radio.

**R.C.A.
LICENSED**

CHASSIS

The circuit of the great Knight 12 is built completely around a full new set of tubes—the newly invented Super-phonie type—famous for quieter operation, doubled power, and greater economy. 1—53 tube is used in an R.F. stage; 1—57 as First Detector; 1—55 as Oscillator; 2—53 as I.F. Amplifier; 1—56 as Second Detector and AVC; 1—56 as First Audio; 2—56 as especially designed Class "B" Power stage; 2—46 as Class "B" Push-Push Output Stage, and 1—83 Mercury Vapor Rectifier. This circuit arrangement is unbeatable for keen sensitivity, hair-line separation, vast controlled volume, and tone that catches every single vibration of the original rendition. Chassis measures 17 in. wide, 9½ in. deep, and 8½ in. high.

TRUE CLASS "B" AMPLIFICATION

A new and vital thing in radio. Creates not only greater volume and power, but captures and reproduces the minute overtones that other radios cannot get. Class "B" Power makes the Knight 12 a musical instrument with true tonal character.

INTERSTATION NOISE SILENCER

Breathlessly new is the Inter-Station Noise Suppressor incorporated in the new Knight 12. It suppresses back-ground noises so that you may tune now from station to station with absolute silence between each. The Suppressor rejects all static and noise.

SPOT-TUNING

A unique Full Vision Dial with a special Spot-light tuning feature, makes operation of the Knight 12 easy and pleasurable. It's another instance of Knight innovation.

BI-ACOUSTICS

Each Knight 12 is equipped with twin over-sized Jensen speakers in dual arrangement. They are designed to reproduce faithfully both low and high notes at minimum or maximum volume, and they do full reproducing justice to the wonderful output of the receiver. You will note the difference the minute you hear the Knight 12.

NEW SUPER-PHONIC TUBES

The new type Triple grid tubes make quiet Automatic Volume Control possible in the Knight 12. This wonderful feature prevents blasting and fading. Peaked efficiency and greater power are assured with the new tubes. They afford, in addition to 20 watt output, a wider tonal frequency spread than ever before possible. This means infinitely better tone quality, with every original overtone faithfully retained.

MATCHED DUAL OVERSIZE SPEAKERS

Chassis Less Tubes

Here the Knight 12 Chassis is offered together with Dual Speakers but less tubes. No. E9750. Retail Value, \$90.75.

YOUR PRICE

\$41²⁵

With RCA Tubes

The Knight 12 Chassis and Speakers with 5—56, 1—57, 3—58, 2—46, and 1—83 RCA tubes. No. E9751. Retail Value, \$106.50.

YOUR PRICE

\$49⁸⁵



\$ **41²⁵**

NEW TYPE TUBES · POWER · TONE ·

SUPERHETERODYNE..

SUPER POWER RADIO

Nothing has been omitted from the new Knight 12 in the desire to place it at the front in radio. Consider its astounding features—its 12 new type Super-phonix tubes—its true Class "B" amplification with 20 watts of undistorted output and the widest tonal sweep yet attained—its quiet Automatic Volume Control, Full Range Tone Control, three audio stages—its Dual Dynamic Speakers, Mercury Vapor Rectifier, Spotlight Tuning—and its wonderful new Inter-station Noise Suppressor. These are amazingly new, and they place the Knight 12 at the top for power and tone.

NEW 6 LEG CONSOLE

An incomparably beautiful cabinet model has been chosen to house the new Knight 12. The pilasters are of curved matched butt walnut and maple burl, with apron of lacewood and an exquisitely matched butt walnut radio panel. The quarter doors are of matched walnut set off by lacewood arch and frame. The cabinet stands 47½ in. high, 25 in. wide, and 15 in. deep. The re-producer chamber is perfectly baffled for the finest acoustical results in connection with the Dual Dynamic Speakers.

SPECIAL NEW 46 DRIVER AUDIO STAGE

All possibility of power tube overload is overcome by the use of the new 46 Super-phonix tube. It makes available a vast reserve power with greater economy in current consumption, and efficiently prevents blasting, rattling, and distortion. New attainments in tone quality are therefore possible with a much wider fidelity range unparalleled in other sets using other tubes.

1 MICROVOLT SENSITIVITY

The marvelous sensitivity of the Knight 12 is rated at one microvolt per meter, which means an unprecedented ability to reach out over vast distances with great ease. The natural selectivity of the set does away with interference even from high powered local stations.

GIANT DISTANCE RANGE

The new Knight 12 is in every sense of the word, master of the air. It tunes from 175 to 550 meters, and within that range, is capable of bringing in far-distant stations with magic ease and power. You will enjoy the thrill of reaching out into space and pulling in the faintest of radio signals. You will be amazed at the ability of the Knight 12 to build these signals faithfully and realistically to powerful clear volume. Thrill to Knight power and distance coverage.

NEW LOW PRICE

The Knight 12 is the finest Super-het that money and the best engineering skill in the world can build. Nothing has been spared to make it today's perfect radio. It is modern in its operating excellence—and it is modern, too, in its price. That price is in complete harmony with the times. The Knight 12 is the finest of radios offered at the lowest of prices. Take advantage of this rare value.

**BEAUTIFUL
SELECTED
WALNUT
CONSOLE**



the **SEASON'S OUTSTANDING VALUE**

**COMPLETE
LESS TUBES**

Here the Knight 12 is offered in cabinet, with Dual Speakers but less tubes.
No. E9754.
Retail Value, \$131.45.
YOUR PRICE... \$59⁷⁵

**COMPLETE WITH
R. C. A. TUBES**

The Knight 12, complete, with 5-56, 1-57, 3-58, 2-46, and 1-33 RCA tubes.
No. E9755.
Retail Value, \$140.50.
YOUR PRICE... \$68⁵⁵

\$59⁷⁵

BEAUTIFUL MATCHED WALNUT CONSOLE

10 TUBE

**KNIGHT
PHONO**

**SUPER...
HETERODYNE**

COMBINATION

New
DUAL SPEED MOTOR

FOR NEW AND OLD TYPE RECORDS

The Knight 10 Superheterodyne, famous for its up-to-the-minute qualities, has been built into an equally ultra-modern Phonograph Combination. The phonograph equipment of this wonderful instrument incorporates a new type Dual Speed Phonograph Motor and Turntable which plays either the ordinary 78 r.p.m. records or the new Long-playing 33 1/2 r.p.m. records. This fine equipment, coupled with the flawless power and beautiful tonal output of the Double Pentode set audio and perfectly matched Dual Dynamic speakers, provides you with magnificent record and broadcast recreation.

POWER PENTODE CIRCUIT

Seven of the new type Super-phonoc tubes are used in the Knight 10 circuit which is fully licensed by E.C.A. The audio circuit is built after the new double pentode power design which is a supreme attainment in radio power output. Keen-cutting selectivity and greater sensitivity. Quiet Automatic Volume Control eliminates blasting on local and fading on distant stations. Quiet operation, tremendous reserve power, and the tone of life itself are Knight 10 characteristics. A wonderful bi-acoustic arrangement of Dual Speakers handles the vast output of the circuit perfectly for flawless record and broadcast entertainment.

TRUE TONE

The brilliant tone quality evolved by the Knight 10 circuit and Dual Dynamic Speakers is enhanced by the built-in Tone Control which enables you to emphasize the notes you wish to hear.

NEW FEATURES

A brand new Interstation Noise Suppressor does away with static and noise in tuning from station to station, on the Knight 10. The unique Spot-light Tuning Visual dial is also a new feature.



LICENSED BY RCA

UNUSUAL BEAUTY

The aristocratic cabinet of the Knight 10 Combination illustrated above, features a distinctive 8 leg design with gracefully curved stretchers, shaped apron, curved pilasters of matched wood, and a pleasing front panel of beautifully grained walnut. The cabinet stands 42 in. high and is splendidly proportioned and a perfect acoustic housing for the Dual Dynamic Speakers.



**MOTOR
SPEEDS
33 1/2 & 78
R.P.M**

SENSITIVE COUNTER BALANCED PICK UP..

IDEAL PHONOGRAPH ENTERTAINMENT

DUAL DYNAMICS

There is true art in the way the Knight 10 Combination re-creates record entertainment. The new type Dual Speed motor and the perfected counter-balanced pick-up are perfect complements to the wonderful double pentode Audio circuit of the receiver. The vast volume available is a velvet clear background emphasizing the full beauty of modern recordings and the year's most realistic radio broadcast tone.

Two dual arranged Jensen dynamic speakers handle the output of both radio and phonograph with sparkle and vividness.

\$69.85

LESS TUBES
The Knight 10 Combination is offered here complete but without tubes. E9746.
List, \$149.50.
YOUR PRICE \$69.85

WITH RCA TUBES
The Knight 10 complete with 3-56, 1-57, 3-58, 2-47 and 1-80 RCA tubes. E9747.
List, \$184.25.
YOUR PRICE \$76.95



PERFECT PHONO-RADIO REPRODUCTION..

KNIGHT MIDGET SETS

4 TUBE NEW TRIPLE GRID TUBES FULL VISION DIAL

BIG SET VOLUME AND TONE

The new Super-phonetic Tubes employed in the T.E.F. Knight 4 midget, not only produce greater volume, but cover a wider range of frequencies, and result in that truer tone and better tone found only in the larger sets.

1-58 tube accomplish wonders for quiet, super-selective operation, for equal sensitivity over the whole broadcast band and for real power punch and flawless reproduction. Full vision dial makes tuning a pleasure.

2-TONE WALNUT FINISH

The compact Knight 4 cabinet, standing 14 1/2 in. high and 12 1/2 in. wide, is attractively designed in a two-tone highly finished walnut effect.

\$8⁹⁵



THE IDEAL "SPARE" SET

The midget 4 is splendid as an additional radio in the home. It fits anywhere and may be carried to the sun-porch, bed-room or den, and connected to any A.C. outlet with great ease. You can afford this "spare" set at our bargain price.

DYNAMIC SPEAKER

A powerful dynamic speaker, true-toned at both low and high pitch, is furnished with the Knight 4. It is capable of handling full volume without distortion.

LESS TUBES

The splendid Knight 4 Midget is offered here complete in cabinet with speaker, but without tubes.

No. E9700. List, \$24.00. **\$8⁹⁵**
YOUR PRICE.

WITH TUBES

Here is the Knight 4 complete with 1-247, 1-280, 1-257, and 1-258 R.C.A. licensed tubes.

No. E9701. List, \$29.95. **\$11⁸⁵**
YOUR PRICE.

the KNIGHT 5 tube MIDGET...

AMAZING POWER & EFFICIENCY

There is a tremendous punch in this midget 5 tube set. Three of the new triple grid tubes do the trick, producing amazing volume, powerful sensitivity, keen selectivity, and a richness of tone that is unparalleled in most small radio sets. The dynamic speaker stands the "gaff" at full volume. The Knight 5 is distinctively housed in a gracefully shaped walnut cabinet measuring 15 in. high and 12 1/2 in. wide.

3-RANG CONDENSER

The Knight 5 has big set design evidenced in its 3 rang condenser and its thorough shielding of all parts. It is built around the new Super-phonetic tubes to give giant radio results.

SET, LESS TUBES

The Knight 5 is offered here complete, less tubes. No. E9706. List, \$32.25. **\$11⁴⁵**
YOUR PRICE.

SET, WITH TUBES

The Knight 5, complete with 1-247, 1-28, 2-258, and 1-257 RCA licensed tubes. No. E9707. List, \$39.85. **\$15¹⁵**
YOUR PRICE.

SPOTLIGHT DIAL

A unique new feature of the Midget 5 is its Full Vision Dial with the Spotlight effect which makes locating and tuning stations simple, pleasant, and extremely accurate.

\$11⁴⁵



POWERFUL DYNAMIC SPEAKERS.

SPECIAL VALUES

HOT-DONUT Electric Hot Water Heater



INSTANT HOT WATER

A new invention to solve an age-old problem. An electric water heater to give you boiling hot water in a jiffy. Just plug into any electrical outlet—immerse the HOT DONUT in water, and with magic speed steaming hot water, heated to any temperature, is ready for emergency or regular use. For shaving—bathing—washing dishes and clothes—for baby's bottle—indispensable in sick rooms. Look at the price. Complete with heavy rubber-covered 8 ft. cord.

No. E 8550
SPECIAL,
ONLY

73¢

White Cross Coffee Vac



An amazing new way to make coffee. Flavor—Health—Beauty—Economy—Convenience—all reflected by this new Coffee Vacuumator. Does not bring out disagreeable coffee-taste, and produces about twice as many cups per pound as any other method.

Heat-Proof GLASS

Glassware is "Glass-Bake," heat-proof and easy to clean. Metal parts chromium plated. Easy to operate—simply pour water into bottom glass container, and proper amount of coffee in the upper. Container for six cups. Operated electrically—equipped with chromium heating unit and cord and plug.

AUTOMATIC ACTION

Evaporation of essential coffee oils is automatically restrained. An ideal gift. Offered at a special low price.

No. E 8505
List \$5.95
Special Only

\$4.07

NEW 1000 WATT Automatic IRON



New-Automatic and Economical. 1000 watt adjustable electric iron. Consumes no more current than 560 watt iron. Bevel edge, large ironing surface. **LIFETIME UNIT** Lifetime unit embedded in stressless carborundum. 25 heats. Stays at exact temperature wanted. New type high arc thermostat.

CHROMIUM FINISH Beautiful chromium finish. Graceful round head. Tip-up rest. For 110 Volt A. C. only. Shipping wt. 7 lbs.

No. E 6632.

SPECIAL EACH

\$3.90



Instant Heat on Tap

EAGLE Automatic Hot Water Heater

New—Different. Instantaneous hot water right from the cold water faucet. Automatic—Trouble-proof. Simply attach to any faucet and current outlet and forget it. Consumes current only while water is running. Gives a steady flow of hot water safely, silently and economically. For washing, shaving, hot poultices, hot drinks, etc. No other water heater like this. Attached in less than a minute on any faucet. Complete with 8 ft. rubber cable at a special low price.

No. E 8920
List \$2.75.

YOUR LOW PRICE

\$1.63

SENECA New 3 Heat Pad Fluffy Eiderdown Cover



Absolutely safe—New low price—3 heat adjustment. A heat pad constructed with a patented double thermostatic control. Finest nichrome heat units. Bakelite switch offers three degrees of heat. This pad provides continuous and helpful service.

QUALITY CONSTRUCTED

The quality heating pad with a plaid eiderdown cover, with cushion constructed blanket interlining. Complete with silk cord, 3 heat bakelite switch and connector plug. An unparalleled bargain at our exceptional low quotation. Green in color. Ship. Wt. 2 lbs.

No. E 6621.

A FEATURE VALUE.. **\$2.27**



Seneca Heat-Indicator Waffle Iron

The outstanding value of the season in an Indicator Waffle Iron. Heat indicator tells when to bake. Makes a beautiful gift.

New Lowboy Model

Beautiful all metal lowboy model with gracefully designed metal handles. Nichrome units mounted on high quality refractory plate. Die cast aluminum grids. Black front handle in porcelain-like finish. Diameter 10 in. Height 4-1/8 in. Complete with silk cord and attachment plugs. Shipping Wt. 6 1/2 lbs.

No. E 6623. **\$3.65**
List \$5.95.
NET....

NATIONAL 4 in 1 Waffle Iron—Grill Toaster—Table Stove

Four appliances in one—quickly, easily and economically prepares any meal right on the table, without fuss or bother. Bakes waffles; grills steaks, chops, bacon, etc. Crisp, golden toast made quickly.

Useful—Attractive

The ideal gift for any occasion. Hand-some high nickel polish over copper.

Waffle grill is heavy cast aluminum, with nichrome heating units. Handles embossed. Shipping Wt. 10 lbs.

No. E 5675
List \$11.25

NEW **\$5.88**
LOW PRICE.



REX Electric Alarm Clock

Beauty—Precision—Utility at an unbeatable price. Highly acco-



Sweep Second Hand

A special feature is the sweep second hand. Equipped with 6 ft. cord and plug. Height 7 in., Base 4 1/2 in. For 110 Volt A. C. 60 cycles.

No. E 3275.

A \$3.80 VALUE. **\$1.28**
NET....

SPECIAL VALUES

Signal Twin Wireless Practice Set

Sure to sell fast on sight! Practical and yet of tremendous entertainment value.

PRACTICAL—INSTRUCTIVE

A real workable toy that every boy is certain to want, and grownups too. Each instrument a complete sending and receiving unit. Operates up to 1,000 feet, on any standard dry cell batteries. A splendid gift item.

DRY CELLS

Quality dry cells recommended for use with the above Signal Practice Set

No. E 704
NET EACH.....**21c**



A Complete Transmitting and Receiving Unit

Two complete transmitting and receiving units. Equipped with key, buzzer, and code plate. Full instructions for operation. 75 ft. of wire. Sets in attractive Maroon and Gold contained in beautiful display boxes.

No. E 6656.
SPECIAL PRICE.....**\$2.06**

GEM MIDGET MICROPHONE

Do your own broadcasting with the efficient Gem Hand Mike!



A Real Mike

Practically Scientifically constructed—single button of 200 ohm resistance with circuit switch. May be connected to amplifiers or direct to any set. Easy to install.

THRILLS GALORE

Broadcast at home. Cut in on radio programs with jokes, comments and announcements.

CHROMIUM PLATED

Attractive chromium plate. Complete with plug adapter and 25 ft. cord. Includes instruction sheet.

No. E 3223
\$7.50 Value
SPECIAL PRICE **\$2.95**

Famous Blackbird Crystal Set

The Aristocrat of crystal radio receivers. Fine for local and the great chain program. Economical. Requires no batteries—no tubes.



LOUD CLEAR

Local programs come in loud and clear, with that purity of tone for which crystal sets are famous. Housed in a compact case in neat black leatherette finish with black crystalline front panel.

ULTRA-SELECTIVE

The Blackbird tunes sharply and easily from a single dial. It employs a supersensitive crystal detector, enclosed in a dust-proof glass casing. Will give splendid results in locations which are not at a great distance from broadcasting stations. Extensive chain broadcasts make distant programs available through local stations. No. E 5940. Set only, less accessories.

YOUR SPECIAL NET PRICE.....**\$1.58**

WITH ACCESSORIES

The Blackbird crystal set complete with one pair of first-quality head-phones and aerial equipment. The finest in crystal set performance at a startling low price.

No. E 6941.
NET COMPLETE.....**\$2.91**

New Feather-Weight Head Phones



Weigh only 5 ounces—So light and so comfortable you scarcely know you have them on. Only the finest materials used in their construction.

FINE FOR DX

Extremely sensitive, widely recommended for DX and weak signal reception. Headband is made of flexible steel. Shipping Wt. 1 lb.

No. E 795—4000 ohm **\$1.38**
NET PER SET...

No. E 796—2000 ohm **99c**
SPECIAL NET...

REAL PHONES

Modern—Useful—Economical. Now you can have your own telephone system with Real phones, the new two-way telephones that operate on standard dry cell batteries. French style phones—compact, good-looking, up-to-date. Furnished in pairs—all ready for use. Only the batteries need to be added.

DRY CELLS

Standard dry cells for use with Realphones.

No. E 704
NET EACH **21c**

Connecting Cables

3-Conductor cables for indoor and outdoor use.

No. E 2516—100 ft. **\$1.03**
for outdoor use.

No. E 2517—100 ft. **88c**
for indoor use.

Talk and Ring for Thousands of Feet



At Home—At Work

Especially convenient as room-to-room or house-to-garage telephones. Equally useful in offices, factories, public garages, restaurants, stores, etc.

No. E 1010—Black
No. E 1011—Green
No. E 1012—Ivory
No. E 1013—Chinese Red
NET PRICE, EACH SET

\$3.43

ELECTRIC TELEPHONES

Signal buzzers cleverly concealed in base. No difficult installation necessary. No complicated mechanism. Furnished with full instructions for rapid connection. Complete sets include 2 Real-phones with buzzers, 35 feet of wiring and instructions. The wiring supplied is sufficient for room to room communication. Additional wiring may be added as required. Connecting cables for longer distances and dry cells are listed on this page. Two dry cells required per set. Telephones available in four colors.



Knight 6 TUBE

DUAL WAVE SUPERHET

75 TO 550 METERS

NEW DUPLEX DIODE-TRIODE TUBE

Today's radio—The Knight 6 tube Dual Wave Superheterodyne with a range of 75 to 550 meters. This set has distance, power, selectivity, super acute sensitivity and, above all, clarity of tone. Here is a radio that has everything: an advanced Superheterodyne circuit, long and short wave reception, the new Duplex Diode-Triode tube, tone control, automatic volume control; in short, all up to the minute features known to radio today.

BUILT IN CHANGE-OVER SWITCH

Your reception range today is increased many fold with short wave reception, and is available in the new Knight 6 tube Superheterodyne by a simple turn of the switch. Dual scales on a single dial provide for simplified tuning. The thrill of police calls and foreign country reception is always yours at the easiest manipulation of the Knight simplified, unified, tuning system. No coils to plug in, or trimmers to adjust.

POWERFUL MAGNAVOX DYNAMIC

A powerful Magnavox dynamic speaker adapted for use with the advanced Knight 6 circuit, renders rich, vibrant performance that makes Knight entertainment a continual pleasure. Complete over-tones are captured, building the tonal output of the receiver up to rare beauty.

Single Dual Tuning

For simplicity in operation and ease of tuning, this set has no parallel. Single dial control with built in change-over switch for changing from short wave to long wave provides for unified control.



Beautiful Walnut Cabinet

A superior receiver deserves a superior housing. The Knight 6 tube Super gets a fitting companion in the beautiful grained walnut cabinet pictured above. The cabinet measures 18 1/2 in. high, 13 in. wide and 8 1/2 in. deep. The Uni-tuning double scale dial simplifies tuning.

\$22.95

COMPLETE WITH TUBES

The Knight 6 complete with 2-58, 1-57, 1-55, 1-47 and 1-80 RCA tubes.

No. E9713.

Retail Value, \$58.70. **YOUR PRICE, \$27.45**

SET LESS TUBES

Here is the Knight 6 with cabinet and genuine Magnavox speaker, less tubes.

No. E9712.

Retail Value, \$49.50. **YOUR PRICE, \$22.95**

FULLY SHIELDED CHASSIS

ADVANCED SUPERHETERODYNE CONSTRUCTION

For those who wish a chassis only for console installation, the Knight 6 tube Dual Wave Superheterodyne is here offered. It attains a selectivity never before reached in a 6 tube set. Makes for pleasurable operation on both long distance as well as local reception. Just another proof of Knight modernity. Chassis measures 11 1/2" long, 7" deep, and 6 1/2" high.

FULL RANGE TONE CONTROL

Complete selection of tone emphasis is at your command with the tone control built in the Knight 6 Super. A turn of the dial will accentuate either high or low notes in accordance with your desire. An advanced automatic volume control provides for smoother tuning and prevents blasting and fading.



Licensed By RCA

CHASSIS AND SPEAKER

The new Knight 6 tube Superheterodyne complete with powerful Magnavox dynamic speaker, less tubes.

E9710. Retail Value, \$44.50. **YOUR PRICE, \$19.95**

COMPLETE WITH TUBES

The Knight 6 tube Superheterodyne chassis with speaker and 2-58, 1-57, 1-55, 1-47 and 1-80 RCA tubes.

E9711. Retail Value, \$53.70. **YOUR PRICE, \$24.45**

\$19.95

12^{tube}

KNIGHT SUPERHET

Extreme Selectivity

Class "B" Amplification

The latest, greatest development in radio since the advent of screen grid tubes. It is powerful, life-like, advanced Class "B" amplification. Tremendous power coupled with startling realism has brought to life notes hitherto blurred. An absolutely new radio receiver, incorporating full Class "B" Amplification, static control, quiet automatic volume control, full vision dial, Dual speakers, and twelve new type tubes.

20 Watts Undistorted Power Output

The two powerful dynamic speakers are driven by a super-powered chassis delivering 20 watts pure, undistorted power. They are capable of full, rich, vibrant tone equaling in quality the finest radio sets on the market.

FULL RANGE TONE CONTROL

Brings out the high, sparkling tones of the dance orchestra or the low bass notes of classical music. Controls the tone to suit your taste and mood. Together with the super dynamic dual speakers, it faithfully duplicates life-like tones.

DUAL OVERSIZED SPEAKERS

Spotlight Full Vision Tuning

An attractive full vision dial on the front panel features a traveling spotlight, clearly indicating the dial setting. The Knight 12 tube Super tunes from 175 to 550 meters, which takes in most of the police calls in addition to the regular broadcast range.

EXTREMELY SENSITIVE

The Knight 12 tube Super registers a sensitivity of 1 microvolt (one millionth of one volt) per meter. Because of this extreme sensitivity and great power, extreme range has been pulled in with this most modern of radio sets. This sensitivity, coupled with quiet automatic volume control shuts out background noises and extraneous interference and renders the fine life-like tone of a perfect radio.

Complete With Genuine RCA Tubes

The Knight 12 tube Superheterodyne offered complete in console with 5-56, 1-57, 3-58, 2-46, and 1-33 genuine RCA tubes.

No. E9753.
Retail Value, \$167.25.
YOUR NET PRICE **76⁴⁵**

Set Less Tubes

Here is the Knight 12 tube Superheterodyne complete with Dual Dynamic speakers, less tubes. A sensational value.

No. E9752.
Retail Value, \$149.50.
YOUR NET PRICE **67⁸⁵**



LICENSED BY RCA

Distinctive New Type Console

Perfect tone requires perfect acoustic construction. The massive tone chamber of this magnificent organ type Console, with scientifically designed dual baffles, reproduces powerfully and clearly tones

you have never heard in a radio before. The cabinet follows the popular trend in Console design. The front panel is of beautifully matched butt walnut with overlays of Carpathian Elm. Six sturdy, fluted pillars gracefully enhance the cabinet design. The cabinet stands 44 in. high, 23½ in. wide and 13½ in. deep.

PURE POWERFUL TONE

The new full class "B" amplification Knight 12 tube Super yields a clear tone of remarkable depth, tonal quality and fidelity. One speaker is pitched for the high tones and the second for the low tones, which gives full range reproduction.

QUIET AUTOMATIC VOLUME CONTROL

The new diode-type 56 automatic volume control tube makes easy tuning and eliminates blasting noises when tuning from weak to strong stations. The Knight 12 tube Super will deliver!

Knight 5 DUAL WAVE SUPERHET

TUBE



New Triple Grid Tubes

The Improved Superheterodyne circuit of this remarkable 5 tube Dual Wave radio set makes use of the newest developments in radio. **Clear undistorted reception** is made possible by use of the new triple grid tubes.

FIVE TUNED CIRCUITS

Five tuned circuits are employed in the chassis which is licensed under RCA patents. The new triple grid and duplex Diode-Triode tubes double the output of the average 5 tube set of a year ago. In addition to the added powerful amplification, the tone quality is better because sufficient volume can be obtained without overloading the tubes.

Built-in Antenna

The simplicity with which this set can be placed in operation in places where current is available is amazing. The powerful, selective built-in Antenna pulls in distant stations with amazing ease and regularity. Never before has there been so fine a radio at so low a price. No modern refinement has been omitted in the design of this set in the endeavor to place it at the front in radio today.

AUTOMATIC VOLUME CONTROL

Full volume and unusual selectivity coupled with extreme sensitivity of one Microvolt per meter! An improved automatic volume control prevents blasting on powerful local stations when tuning, and tends to minimize fading by setting a constant volume level. Single control illuminated dial permits easy tuning.

Long and Short Wave Reception

Foreign countries! Ships! Amateurs thousands of miles away! Enjoy complete short wave reception. No coils to plug in, no trimmers to adjust; simply a turn of the switch and short wave stations from all over the country and many parts of the world are at your command. Enjoy beautiful clear tones from 75 to 550 meters at extraordinary volume.

110 AC and DC Models

No. E9721. For 110 volt 60 cycle AC operation, including 1-55, 1-57, 1-58, 1-47 and 1-80 RCA tubes.
No. E9723. For 110 volt DC operation, including 1-36, 2-38, 2-39 RCA tubes.

COMPLETE WITH RCA TUBES

\$19⁹⁵

25 CYCLE MODEL

For those who live in districts served by 25 cycle current, the Knight 5 tube Super is offered complete with 1-55, 1-57, 1-58, 1-47 and 1-80 RCA tubes.

No. E9725. For 25 cycle 110 volt AC current operation.

COMPLETE WITH RCA TUBES

\$22⁸⁵

\$19⁹⁵

COMPLETE • RCA TUBES

STATIC SUPPRESSOR

Now you can enjoy undistorted, trouble-free radio reception. The new automatic Noise Suppressor eliminates static interference and noises from vacuum cleaners, refrigerators, oil heaters and dial phones and all electrical appliances. No longer any need to have reception ruined by "man made" static!

STONE CONTROL

Enjoy full range tone control from the highest treble to the deepest bass. A positive, super sensitive tone control enables you to suit your own taste as to tone qualities. This remarkable fullness of tone reproduction has made the name of KNIGHT synonymous with the finest in radio reception.

BEAUTIFUL CABINET

The cabinet of the Knight 5 tube Dual Wave Superheterodyne is made of a beautiful two-tone walnut wood in a symmetrical and pleasing design. Measures 9 in. wide, 12 in. high and 6 1/2 in. deep.

Value, performance and economy distinguish the Knight 5 tube Dual Wave super which brings a new concept of power, distance and beautiful tone quality to radio.

DEEP FULL TONE

The unusual tone quality of the Knight 5 will captivate you. Every note has its full value and every whisper is duplicated with exact fidelity. A full sized genuine electro-dynamic speaker, scientifically matched to work perfectly with the Knight 5, gives a life-like resonance to its tone, and its clear vitality actually convinces you that you are listening to the original rendition.

Advanced Superheterodyne Circuit

With only 5 tubes, this advanced set develops a tremendous kick. Comparable to multi-tube receivers costing a good deal more. The new circuit with the new high gain tubes, gives you clear, undistorted volume. It's the type of radio you've been waiting for.

LICENSED BY RCA

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