

1933

RADIO

SETS TUBES
REPLACEMENT PARTS
TEST EQUIPMENT
SERVICE MEN'S SUPPLIES

Allied  Radio

C O R P O R A T I O N

833 W. JACKSON BLVD. CHICAGO ILL.

PROFIT BY LOWEST

ALL PRICES TAX FREE

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Our location just outside of Chicago's busy loop district is convenient to all railway terminals, express offices, boat lines, motor buses, and, in fact, every form of transportation. For the convenience of our customers we maintain a large display room where you are assured of courteous attention at all times. Chicago is acknowledged to be the greatest distributing center in the world. With ALLIED service you are assured of prompt shipments. 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, your transportation charges are usually less because of our ideal central location. Our freight allowance is another inducement to centralize your buying with ALLIED.

PROFITS

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.

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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 small 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 profits. This offer applies on all merchandise in our catalog except A and B batteries, Aerial Wires, Insulators, and Consoles less chassis.

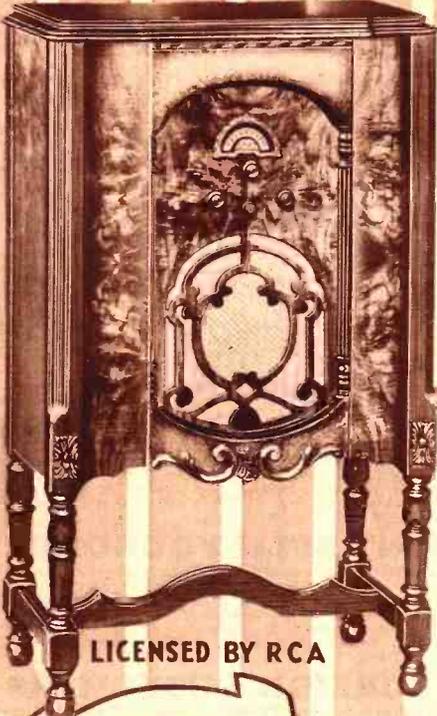


Send in your paid freight bill with order number on label of the shipment and we will either send you our check or apply the allowance on your next order, as you prefer. You may order shipment to go by Express or Parcel Post—a proportionate allowance will be made. Take advantage of ALLIED'S liberal freight 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 1/4" 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 with 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



\$22⁹⁵

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, surer 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

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-phonics tubes are used in it as follows: 1-58 in an R.F. stage, 1-57 as First Detector, 1-56 as Oscillator, 1-58 as I.F. Amplifier, 1-56 as Second Detector and AVC, and 1-56 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-phonics 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.

It's a beautiful life like tone that high quality brings.

FULL VISION

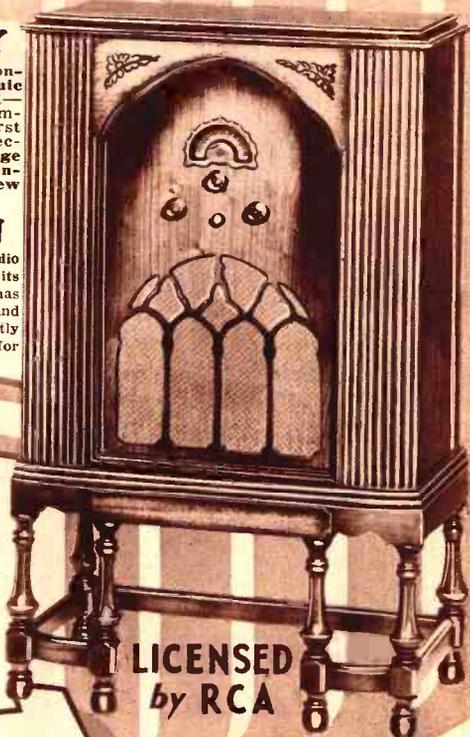
SPOT LIGHT DIAL

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 to 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



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 \$34.45
No. EP734.
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. EP735. \$39.95
List, \$86.45.
YOUR PRICE.

NEW SUPERHETERODYNE CIRCUIT

Genuine RCA MODEL 21 RADIOLA 5



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, \$1270
\$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. *Leak accessories.*

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

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. E9981. SET ONLY. RETAIL VALUE. \$45.00

SET
ONLY
\$ **945**

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, \$3275
\$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.



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. **\$39.85**

NET

COMPLETE LESS BATTERIES

With 2-40, 2-34, 2-32 and 2-30 R.C. A. tubes, but less batteries.

No. E9765. Retail Value, \$103.50.

YOUR PRICE

\$47.80

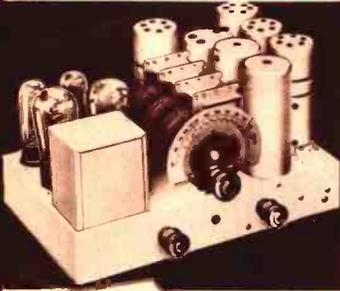
WITH ALL ACCESSORIES

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

No. E9767. Retail Value, \$110.50.

YOUR PRICE

\$55.95



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

\$27.95

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

\$35.90

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 dual wave 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

\$19.95

SET, TUBES & BATTERIES

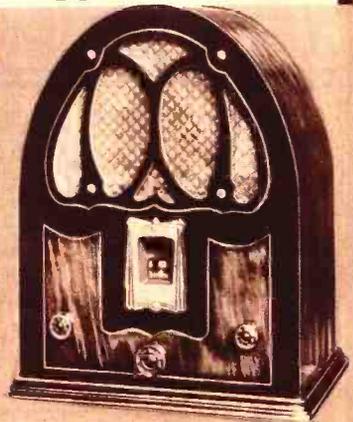
The Knight 5 complete with 2-32, 1-33, 2-34 R.C.A. tubes and 4-45 v. "B" and 1-2 v. Eveready Air Cell batteries.

No. E9729. Retail Value, \$53.75.

YOUR PRICE

\$28.55

\$19.95
WITH RCA TUBES



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

KNIGHT DELUXE AUTO-RADIO

REMOTE CONTROL



The New Superphonic Tubes

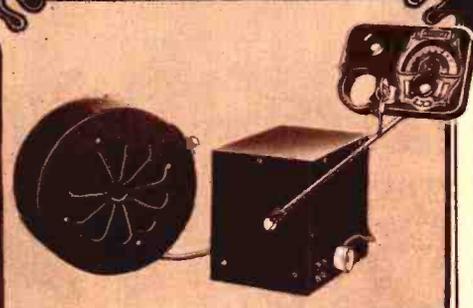
Three of the newly invented triple grid tubes used only in the finest new A.C. sets, are built into the circuit of the Knight DeLuxe Auto Radio. They achieve double the volume formerly possible—a new kind of volume which is absolutely quiet and undistorted—and in addition they give sensitivity and tone 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

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, \$60.95.
YOUR PRICE \$23.25

Complete With Tubes, Batteries and Accessories

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

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

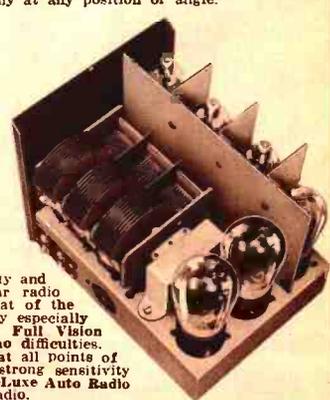


EASY TO MOUNT

The receiver case of the DeLuxe Auto Set measures only 7 1/2 x 5 1/4 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 easy tuning from the unique new Full Vision Spotlight tuning dial. No back lash, no difficulties. Absolute selectivity at all points of the dial, and good strong sensitivity at all times. The DeLuxe Auto Radio is a perfect auto radio.



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!

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.

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





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. 97c
E135. Cunn.

MULTI-MU S.G. 5 PRONG

235 E180. R.C.A. 97c
E130. Cunn.

DET.-AMP. A.C. TUBE

227 E163. R.C.A. 62c
E113. Cunn.

POWER TUBE

245 E165. R.C.A. 68c
E115. Cunn.

PENTODE POWER AMPLIFIER

247 E184. R.C.A. 79c
E134. Cunn.

FULL WAVE RECTIFIER

280 E167. R.C.A. 62c
E117. Cunn.

A.C. OR D.C. AMPLIFIER

226 E162. R.C.A. 50c
E112. Cunn.

DET.-AMP. 2 V. TUBE

230 E175. R.C.A. 97c
E125. Cunn.

2 VOLT LAST AUDIO TUBE

231 E176. R.C.A. 97c
E126. Cunn.

S.G. AMP. AND DET. D.C.

232 E177. R.C.A. \$1.38
E127. Cunn.

D.C. 2 V. POWER PENTODE

233 E179. R.C.A. \$1.65
E129. Cunn.

S.G. AMP. FOR ALTO SETS

236 E181. R.C.A. \$1.65
E131. Cunn.

D.C. AUTO POWER PENTODE

238 E183. R.C.A. \$1.65
E133. Cunn.

D.C. AUTO DET.-AMP.

237 E182. R.C.A. \$1.06
E132. Cunn.

THE NEW SUPER-PHONIC TUBES

These tubes reproduce complete musical range, including 266 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. 91c
E140. Cunn.

POWER AMPLIFIER TETRODE

48 E150. R.C.A. \$2.20
E100. Cunn.

DUPEX-DIODE TRIODE

55 E187. R.C.A. 94c
E137. Cunn.

GENERAL PURPOSE TRIODE

56 E192. R.C.A. 76c
E142. Cunn.

TRIPLE-GRID AMP. DET.

57 E193. R.C.A. 97c
E143. Cunn.

3-GRID SUPER CONTROL

58 E194. R.C.A. 97c
E144. Cunn.

FULL WAVE MERCURY VAPOR RECTIFIER

82 E191. R.C.A. 76c
E141. Cunn.

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

83 E196. R.C.A. 91c
E146. Cunn.

DUPEX-DIODE TRIODE FOR 6 VOLT ALTO SETS

85 E197. R.C.A. 94c
E147. Cunn.

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

89 E198. R.C.A. \$1.06
E148. Cunn.

VOLTAGE AMPLIFIER

841 E193. R.C.A. \$8.23
E138. Cunn.

A.F. Amplifier-Modulator. Same as 210 but has low amplification factor.

842 E161. R.C.A. \$8.23
E111. Cunn.

SUPER CONTROL R.F. AMP. PENTODE FOR AIR CELL SETS

234 E186. R.C.A. \$1.65
E136. Cunn.

PENTODE AMP. FOR ALTO SETS

239 E189. R.C.A. \$1.65
E139. Cunn.

PHOTOTUBE

868 E199. R.C.A. \$5.88
E149. Cunn.

D.C. AMPLIFIER, DETECTOR

864 E195. R.C.A. \$1.61
E145. Cunn.

100 WATT. S.W. TRANS. TUBE

852 E169. R.C.A. \$25.20
E119. Cunn.

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

865 E170. R.C.A. \$13.50
E120. Cunn.

CURRENT BALLAST. MOGUL SCREW BASE

866 E171. R.C.A. \$6.08
E121. Cunn.

VOLTAGE REGULATOR

874 E172. R.C.A. \$2.88
E122. Cunn.

CURRENT REGULATOR (BALLAST TUBE)

876 E173. R.C.A. \$3.94
E123. Cunn.

CURRENT REGULATOR (BALLAST TUBE)

886 E174. R.C.A. \$3.97
E124. Cunn.

SCREEN GRID R.F. AMPLIFIER

222 E160. R.C.A. \$1.85
E110. Cunn.

HI-MU DET.-AMP.

240 E164. R.C.A. \$1.76
E114. Cunn.

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	250	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.	
No. E335.	NET \$0.65
List, \$1.65.	
A.C. Amplifier	
No. E312.	NET .33
List, \$0.85.	
Detector Amplifier	
No. E313.	NET .41
List, \$1.05.	
Variable Mu.	
No. E330.	NET .65
List, \$1.65.	
Variable Mu.	
No. E337.	NET .65
List, \$1.65.	
Dual Grid Amp.	
No. E340.	NET .61
List, \$1.55.	
Super-Triode Amp.	
No. E342.	NET .51
List, \$1.30.	
Triple-Grid Amp.	
No. E343.	NET .65
List, \$1.65.	
Triple Grid Super Amp.	
No. E344.	NET .65
List, \$1.65.	

D.C. TYPES

201A Detector Amplifier	
No. E308.	NET \$0.31
List, \$0.80.	
112A Power Amplifier	
No. E303.	NET .61
List, \$1.55.	
71A Power Amplifier	
No. E304.	NET .37
List, \$0.95.	
222 D.C. Shield Grid	
No. E310.	NET 1.23
List, \$3.15.	
230 2 Volt Det. Amp.	
No. E325.	NET .65
List, \$1.65.	
232 2 Volt Power Amp.	
No. E326.	NET .65
List, \$1.65.	
233 2 Volt S.G. Amp.	
No. E327.	NET .92
List, \$2.35.	
233 2 Volt Pentode Amp.	
No. E329.	NET 1.10
List, \$2.80.	
V 199 Detector Amplifier	
No. E305.	NET 1.08
List, \$2.75.	

D.C. TYPES

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

AMPLIFIERS RECTIFIERS

No.	Type	List	NET
E315	245	\$1.15	\$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.	\$1.65	\$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 51	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 Pentode	1.65	.73
E408.	T 01A	Detector Amplifier	.80	.36
E403.	T 12A	Amplifier Detector	1.55	.68
E404.	T 71A	Power Amplifier	.95	.42
E410.	T 22 DC	Screen Grid R.F. Amp.	3.35	1.39
E425.	T 39	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 82	Full Wave Mercury rect.	1.30	.57
E421.	T 866	Half Wave Mercury rect.	7.50	3.39
E415.	T 45	Power Amplifier	1.65	.73
E434.	T 47	Power Amp. Pentode.	1.60	.70
E409.	T 10	Power Amp. Oscillator.	7.25	3.19
E423.	T 108	Special R.F. 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	4.11
E450.	T-305-D	Sound Movie Power Amp.	4.41	2.09
E420.	T 89	Amp. Detector and Osc.	1.74	.81
E446.	T-PEC-2	Photo Cell 3 1/2"	13.28	6.41
E447.	T-PEC-3	Photo Cell 4 1/2"	17.64	8.41
E448.	T-PEC-7	Photo Cell 3 1/2"	13.28	6.41
E422.	T-868	Photo Electric Cell.	6.81	3.28

EVEREADY RAYTHEON

4 PILLAR TUBES

EVEREADY RAYTHEON TUBES have four pillars embedded in solid glass base and braced at top with 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
E669	ER 48	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 for A.C. Sets	1.30	.69
E693	ER 57	Pentode Det. or Amp.	1.65	.87
E694	ER 58	Variable Mu Pentode.	1.65	.87
E695	ER 52	Full Wave Mer. Rect.	1.30	.69
E696	ER 58	Full Wave Mer. Rect.	1.35	.82
E697	ER 58	V. C. Auto. Det.	1.60	.84
E698	ER 58	Universal Power Auto Amp.	1.80	.95
E689	RA	Full Wave Rect.	7.50	3.97
E688	BR	Half Wave Rect. for B ⁺ Full Wave Gas. ct.	4.65	2.46
E690	BR	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
E675	ER 120	Amp. for Dry Battery	3.00	1.59
E677	ER 252	Power Amp. for A.C. Sets	2.35	1.24
E668	ER V199	Det. or Amp. for Dry Bat.	2.75	1.46
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	.85	.45
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.	1.80	.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	.56
E668	ER 281	Half Wave Rectifier	5.20	2.75
E687	ER 551	Vari. Mu S. G. Amp.	1.65	.87

ARCTURUS BLUE TUBES

Y-224A
SCREEN GRID
AMPLIFIER
No. E238.
List. \$1.65.
YOUR
PRICE **49c**

Y-227
DET. AMP.
No. E213.
List. \$1.05.
YOUR
PRICE **31c**

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

X-280
FULL WAVE
RECTIFIER
No. E217.
List. \$1.05.
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. \$3.75.
YOUR
PRICE **81c**

X-120
DRY CELL AMP.
No. E202.
List. \$3.00.
YOUR
PRICE **88c**

X-210
Power Amplifier.
No. E209.
List. \$7.25.
YOUR
PRICE **\$2.14**

X-250
AMPLIFIER
No. E216.
List. \$6.20.
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	128	Amplifier	.85	.45
E513	127	Detector Amplifier	1.05	.56
E526	130	Detector Amplifier	1.45	.87
E522	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
E632	137A	Detector Amplifier	1.80	.95
E533	138A	Power Pentode	2.80	1.48
E524	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	351	Var. Mu R.F. Amplifier	1.65	.87
E522	55	Duplex-Diode Triode	1.80	.85
E525	56	Det. Amp. Oscil.	1.30	.69
E543	58	S.G. Detector Amplifier	1.65	.87
E544	58	Var. Mu R.F. Pentode	1.05	.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.	1.50	.85
E546	82	S.W. Mer. Vapor Rec.	1.55	.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	1.48
E534	P.Z.	Power Pentode	1.60	.85
E541	Wunderlich A	Detector	3.00	1.78
E542	Wunder. A	Automotive Detector	3.00	1.78

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 lense 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.	Type	NET
E446	Type PEC-2	\$13.28
E447	Type PEC-3	17.64
E448	Type PEC-7	13.28
E422	Type 888	6.81

Sound-Movie Types

No.	Type	NET
E400	Type 211	\$15.75
E401	Type 845	15.75
E450	Type 205D	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. Eliminate 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. Shpg. 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	6	6-A-5
E1073	6	7-A-5
E1074	8	8-A-5
E1075	10	10-A-5
E1077	11-12	11-A-5

SPECIAL AMPERITE CONTROLS

- No. E1063. 13A-5. For 7 to 11 tube sets using 1-50 tubes.
 No. E1064. 20A-5. For 7 to 11 tube sets using 1-50 tubes and for 110 Volt D.C. Sets.
 No. E1065. 9-20. For Brunswick 14, 21, and 31.
 No. E1066. 11-20. For Hi Q-30, Kyctron K71, N72, 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 Ralder.
 No. E1070. 9-V-10. For Victor R35 and 39.
 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. 50c. YOUR PRICE... 28c

\$125

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, vacuums cleaners, elevators, etc., are readily reduced. Can be placed near or inside of radio. Place plug into eliminator socket. Maximum 110 Volts A.C. or D.C. Current. Shpg. wt. 1 1/4 lbs.
 No. E3223. List. \$2.50.
\$135
 YOUR PRICE

ESSENCE 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.
98c
 YOUR PRICE



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. 1 lb. each.

No.	Type	Watts
E2241	A.	Up to 60
E2242	B.	60 to 100
E2239	B.	100 to 150

 List. \$1.75.
89c
 YOUR PRICE



Readrite A.C. Metered Voltage Regulator

An A.C. Voltmeter and power rheostat which gives a working range between 130 and 100 volts. Perfect circuit control. Voltmeter has red margin from 110 to full scale, and a black line maximum voltage division marked 115. With cord and plug. 1 1/4 lb.
 No. E6340. List. \$6.50.
\$3.68
 YOUR PRICE

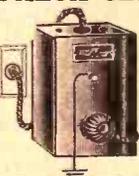


Aerovox Interference Eliminator

The Aerovox Interference Eliminator furnishes a real 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. Shpg. wt. 3 lbs.
 No. E850. List. \$5.00.
\$2.94
 YOUR PRICE

FALCK CLAROCEPTOR

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



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	Type	Set
E2125	2160	Bremner-Tully
E2136	2170	Brunswick Hi-Q-30, Scott.
		Silver, Sonora
E2202	137	Majestic 70
E2203	138	2408 Clarion, Hi-Q-31
E2204	139	1508 Majestic 72
E2205	140	1012 Majestic 90
E2206	141	1210 Majestic 90
E2207	142	6310 United Reproducer, Peerless, Grebe
E2213	143	2518 Stark Plino, Belmont
E2214	144	2518 Simplex, Baldwin
E2242	5001	Stewart Warner Model 900-61816
E2243	5002	Stewart Warner Model 930-62152
E2244	5003	Stewart Warner Model R100-66756

 List. \$2.50.
\$135
 YOUR PRICE



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. Shpg. wt. 1 lb.
 No. E2933. Net. Each. 35c.
29c
 Lots of 10, Each.



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.
\$1.68
 YOUR PRICE



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. Shpg. wt. 4 lbs.
 No. E4206. List. \$5.00.
\$2.76
 YOUR PRICE



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. Shpg. wt. 3 lbs.
 No. E4211. List. \$15.00.
\$835
 YOUR PRICE



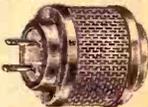
Bud Interference Filter

A highly serviceable filter that does away with "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 metal box. 1 lb.
 No. E1601. List. \$2.85.
\$1.45
 YOUR PRICE



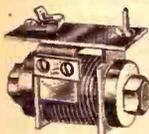
Universal Resistovolt

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. Shpg. wt. 1 lb. each.
 No. E4215. Light Duty for sets up to 6 tubes.
 No. E4207. Heavy duty for sets over 6 tubes.
 List. each. \$1.25. Your Price
58c



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 triode 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, Mayhlan, 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 20% 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 triode 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" rectifying 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, Tube, 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 amp. or trickle chargers. Sturdily constructed, assuring quiet rectification. Delivers 2½ 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 formula 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. E7504. PHILCO B. No. E7504. BALKITE B AND TRICKLE CHARGERS K & N. List Each, \$1.50. Asst. Per doz, \$7.50. NET EACH, \$0.68c



NOTICE—NOT MAILABLE

Eveready Raytheon

Rectifiers

TYPE BH



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, \$4.65. 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. E689. List, \$7.50. YOUR PRICE, \$3.97

TYPE BR for Auto Eliminators

A half wave gasoyle type rectifier for automobile set "B" eliminators. A new purpose tube with Eveready Raytheon customary high quality. Shpg. wt., 1 lb.
No. E690. 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 over-heating 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 Ferabend. 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, \$0.47c



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. 5 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 gasoyle type of tube rated at 125 milli. 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. E691. Type 301 Detector type. List, \$4.00. YOUR PRICE, \$2.35

No. E692. 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. Tests are 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 1 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" x 11". Price does not include 406 or 407 testers.

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



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 set 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 2 volt tubes.
- E6355. P.T. for 46 and 47 tubes.
- E6311. 36 for 36, 38, 39, and 44 tubes.
- E6312. 61 for Wunderlich and Majestic OS 2 tubes.
- E6313. 62 for 65, 85, 69, and 29 tubes.
- E6314. 92 for 292 tubes.
- E6315. 37 for 37 tubes.
- E6352. 54 for 4 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. 63 for 5 to 6 adapter.

YOUR PRICE **44c**

E6326. 66 2 1/4" bakelite handle plug for use with Readrite testers. 5 prongs.

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 8 prong tubes.
- E6322. 176 Double Adapter to test 7 prong tubes.
List. \$1.50.
YOUR PRICE **88c**
- E6323. 175 Double Adapter to test 1500 69 tube, 7 prong.
List. \$2.00.
YOUR PRICE **\$1.18**
- E6324. 167 6-Hole Socket with one center prong on 7 prong plug.
- E6325. 4 for adding speaker or headphones to radio set. Use 2 if push pull.
- E6353. 45 4-Prong Socket on 5 prong plug.
List. 75c.
YOUR PRICE **44c**

Readrite 444 Tube Tester Carrying Case

The 444 is a completely 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 125 volts and complete direct reading ohmmeter 0-40, 0-10,000 ohms for continuity testing. Complete in leatherette case measuring 10 1/2" x 13 1/2".

No. E6418.
List. \$22.50.
YOUR PRICE

\$13²³



Readrite Direct Reading Ohmmeters



These ohmmeters are complete with small 3 cell flashlight battery. Model 500 tests resistance by direct reading up to 10,000 ohms. Model 502 tests low resistance up to 100 ohms in addition to the higher resistance of 10,000 ohms.

- No. E6367. Type 500. List. \$6.00. YOUR PRICE **\$3.53**
- No. E6368. Type 502. List. \$7.00. YOUR PRICE **\$4.12**
- No. E6397. Type 503 Resistor to increase reading of type 500 to 60,000 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 46-53-56-57-58 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 condensers, 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. 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

\$14⁷⁰

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 test set 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 you 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 8 1/2 in.

No. E6407.

List Price, \$80.00.

YOUR NET PRICE

\$52⁹²

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

\$49⁹⁸

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

\$11⁷⁶

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

\$8⁸²

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 the side on panel for easy mounting in the Add-A-Unit case.

No. E6423.

List Price, \$30.00.

YOUR NET PRICE

\$17⁶⁴

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

\$14⁷⁰

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

\$11⁷⁶

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

\$17⁶⁴

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

\$29⁴⁰

NEW Readrite No. 1000 Radio Analyzer

A COMPLETE RESISTANCE, CONTINUITY AND CAPACITY TEST INSTRUMENT

A super ultra-modern tester—complete—minutely precise, for testing resistances, continuity and capacity of radio receiving sets, without removing chassis from cabinet. The 3/4 in. D.C. precision meter, 0-1 M.A., has the lower scale reading—0-30-300-600 D.C. volts. Upper scale readings in ohms and megohms. Scale readings available for resistance measurements are 0-500, 1-50,000 ohms and 0-3 megohms. Can also be equipped for reading directly in microfarads. Also for testing line voltage. Lower scale readings .008 to .25, upper scale, .1 to 10 mids. 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. Plugs 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 vol), 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

Readrite Portable Meters

Offered in variety of ranges for particular purposes. A.C. meters are repletion 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.		List		NET	
NO.	Code	Volts			
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.		List		NET	
NO.	Code	Volts			
E6395.	348	0-150	\$4.00	\$2.35	
E6428.	348	0-300	5.00	2.94	
E6396.	247	0-600	6.00	3.53	
E6429.	248	0-150-750	8.00	4.70	

PORTABLE MILLIAMMETERS

D.C.		A.C.			
NO.	Code	M.A.			
E6430.	225	0-25	E6434.	470	0-25
E6431.	290	0-100	E6435.	471	0-50
E6432.	292	0-200	E6436.	472	0-100
E6433.	294	0-400	E6437.	473	0-260

List, Each, \$3.00.

YOUR PRICE

PORTABLE AMMETERS

D.C.		A.C.			
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.

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

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



TM-102.

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

No. E6331, Esc. 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 voltages. The selector switch provides for testing all A.C. and D.C. tubes. No. E6334. List Price, \$3.82. YOUR PRICE

New 850 Capacity Tester



A new tester to meet a long-felt need. Readrite is equipped with two volt meters for testing electrolytic and paper type condensers. A practical and convenient tester. For shop or portable use. Makes it 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. NET

No. E6422. 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, test lead, 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 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 single pole switch, 13 single and one common terminal.

List, \$1.00.

NET EACH

No. E6336. Type 29. Triple pole, double throw.

No. E6337. Type 33. Double pole, triple throw.

No. E6338. Type 34. Bi-polar switch with 12 double pole positions.

List, \$1.50.

NET EACH

58c

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 550-1500 K.C. broadcast range. Shield 2nd and 3rd harmonics cover intermediates 240-262 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 determining 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.....

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

\$20⁵⁸

\$17⁶⁴

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 2³/₄ in. hole for mounting.



A.C. Type



D.C. Type

Model 55 D.C. Voltmeters

No.	Type	Volts	List	NET
62250	601	0-1	\$1.00	
62251	603	0-3		
62252	605	0-6		
62253	333	0-8		
62254	310	0-10		
62255	316	0-15		
62256	333	0-20		
62257	607	0-25		
62258	608	0-25	2.50	1.47
62259	337	0-50	1.00	.59
62260	337H	0-50	1.00	1.08
62261	337	0-100	1.25	.73
62262	339H	0-100	3.00	1.76
62263	342	0-150	1.50	.88
62264	342H	0-150	1.50	1.08
62265	346P	0-300	3.00	1.76
62266	347P	0-500	4.00	2.35
62267	246P	0-60-300	4.00	2.35
62268	609	0-750	5.00	2.94
62269	341	0-8-100	2.00	1.18
62270	746	0-20-60-300	5.00	2.94

Types 608, 337H, 339H and 342H are high resistance meters.

59c

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	0-10-300	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

D.C. Ammeter

No.	Type	Range	List	NET
62271	380	0-1	\$1.00	
62272	381	0-5		
62273	336	0-3		
62274	338	0-10		
62275	401	1-0-1		
62276	303	0-1		
62277	606	6-0-6		
62278	110	10-0-10		
62279	220	20-0-20		

59c

D.C. Milliammeters

No.	Type	M.A.	List	NET
E 6280	305	0-5	\$2.00	\$1.18
62881	311	0-10	1.75	1.03
62882	325	0-25	1.00	.59
62883	350	0-50	1.00	.59
62884	390	0-100	1.00	.59
62885	391	0-150	1.00	.59
62886	399	0-300	1.00	.59
62887	395	0-20-0-100	1.75	1.03
62888	402	0-15-100	1.75	1.03

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 1/4 in.

No. E6367. **9c**

List, 15c.
NET

Plug In AC Line Meter

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

Wk. 1.

No. E6389. Type 148. 0-150 V. A.C.-D.C. **\$1.76**

Retail, \$3.00. NET

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 575.



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.

No. E6460. **\$3.83**

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 with resistance to be measured, are connected in series with meter. A reliable instrument at a popular price.

No. E6368. List, \$2.50. NET. **\$1.47**



503 RESISTOR

Resistor, 1150 ohms without tip jacks, to increase reading of No. 501 Resistance Meter to 60,000 ohms.

No. E6366. List, \$1.00. NET. **59c**

Readrite Plug-In Socket Test Meters

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

No. E6390. Type 146. Plate voltmeter 0-300 V. D.C. Retail, \$3.00. NET. **\$1.76**

No. E6391. Type 150. Grid voltmeter 0-50 V. D.C. Retail, \$3.00. NET. **\$1.76**

No. E6392. Type 152. Filament voltmeter 0-10 V. A.C.-D.C. Retail, \$2.50. NET. **\$1.47**

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. E6403. List, \$3.50. **\$2.00**

YOUR PRICE

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	0-150 "	9.50	6.98
E4511	0-300 "	12.00	8.82
E4443	0-1 amp.		
E4483	0-20 "		
E4446	0-25 "		
E4447	0-50 "	7.50	5.51
E4510	0-75 "		
E4450	0-500 "		

Pattern 74 A. C. Filament Meters			
No.	Range	List	NET
E4812	0-1 amp.		\$7.50
E4513	0-5 "		
E4814	0-15 M.A.		
E4485	0-150 "		NET
E4486	0-3 volts		
E4487	0-20 "		\$5.51
E4488	0-150 "		\$9.50
E4489	0-150 "		NET
E4490	0-150 "		\$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 insure use of proper tube voltages. 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. NET

YOUR PRICE \$11.03

Jewell Pattern 88 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, \$7.50. NET
No. E4493. 0-10 M.A. NET
No. E4494. 0-30 M.A. \$5.51
No. E4495. 0-50 M.A. }



Jewell 675 Tube Checker

Precise—Dependable
—Accurate. Operates directly from 110-115 volt 60 cycle A.C. line. Equipped with 0-10-50 millimeter. 10 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. NET

\$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 3/4 in. flange. Double range 0-10 v. and 0-100 v. All movement parts silvered. Has zero adjustment. A regular \$9.50 value.
No. E5495. NET



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

Weston 571 Output Meter

Useful in sets, sound and public address systems. Copper-oxide rectifier type voltmeter. Range 0-1.5-6-15-50-150 301. Self-contained condenser for blocking any D.C. component available when required. Size 5 1/2" x 3" x 2 1/2". Scale length: 2.3".
No. E7732. List, \$50.00. 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 range 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 card, 30 type tube, and all necessary batteries.
No. E4527. List, \$47.50. NET

\$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.
List, \$8.00. NET
No. E7743. 0-150 v.
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. 8.00 5.73

MILLIAMMETER RECTIFIER TYPE VOLT METERS MODEL 301

No. Range List NET, EACH
E7767 0-1 V. List \$47.50
E7768 0-15 V. List \$16.50

NEW AC METERS

Pattern 78
New rugged instruments of moving iron type. Flange 3/4 in. dia.
No. E4474. 0-150 V. Retail, \$9.50. NET \$6.98
No. E4475. 0-3-15-150 V. Retail, \$13.50. NET \$9.92
No. E4489. 0-10 volts. Retail, \$7.50. NET \$5.51
No. E4490. 0-15 amp. Retail, \$7.50. NET \$5.51



Weston 526 Voltmeters

A.C. miniature, portable instruments, same as Model 489 D.C. but supplied in a mottled red and black bakelite case. Diam. of case 2 3/4 in.
List NET
E7735 0-150 V. \$9.00 \$6.62
E7736 0-150-300 V. 15.50 11.40
E7737 0-300-800 V. 18.50 13.60
E7738 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 ranges: A.C. Meter 0-3-8 amps., 0-20-100 M.A. and 0-3-8-160-800 volts; D.C. Meter, 0-12-60-120 M.A. 0-6-12-30-60-80-300-900 volts, 0-1-100-1000-10000 ohms and low-medium-high output. 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



965 KS
Na-aid adapter for testing types 57 and 68 tubes in tube testers not provided for these tubes. Six hole top, five pin base. Holes No. 5 and 6 connected to Pin No. 5. Corresponds to Jewell No. 57, Weston D 70157, Supreme 965 KS. **List. \$1.00. NET. 59c**

965 CG
For testing 41 and 42 tubes in testers not provided for these types. Six hole top, five pin base. Control hole. Holes connected to a hole on the side of this adapter. All other connections are through. **No. E962. List. \$1.25. NET. 73c**

944 JY
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 5; other connections are through. **No. E963. List. \$1.00. NET. 59c**

955 GGL
For testing Wunderlich tube 8 tube testers, and with 955 GGK adapter for testing Wunderlich tube 6 circuits in tube testers and analyzers, 5 holes, 5 pins. The two grid holes are connected together and brought down to the pin base. Cathode pin connects to flexible lead which fits cap of tube. All other connections are through. **No. E964. List. \$1.25. YOUR PRICE. 73c**

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

SKT ADAPTERS



965 L ANALYZER PLUG
Na-aid plug for later types of analyzers and set testers having six or seven pin sockets. 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. **\$5.00. NET. \$2.94**
No. E968 954 DS. Five to four adapter. **List. \$1.25. NET. 73c**



UX and UY ADAPTERS
No. E1608 Five prong socket on a 4 prong plug. For testing 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. \$1.75. NET. 39c**

ANALYZER PLUG

966 L
Used in later types of set testers and analyzers. Six pin plug. For those wishing to rearrange their leads to fit this plug. **No. E969. List. \$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 screen. **List. \$5.50. NET. \$3.23**

No. E971 965 S. This is the Na-aid six to 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. \$1.25. NET. 73c**

965 DSW TWIN ADAPTERS

Na-aid standard equip. twin adapters for Jewell 44 and Weston 566 Analyzers. One has five holes and six pins; the other six holes and five pins. A wire connects the suppressor grid circuit and cathode to be used for measurements. The five hole, six pin adapter is fitted with a pin for snap-on connection to the analyzer plug. **No. E973. List. \$2.50. NET. \$1.47**

965 DW
Used with Jewell 100 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. \$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. \$1.75. 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. \$1.00. NET. 48c**

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

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

Type 109
Pentode output adapter permitting connection of additional speaker to sets with only one pentode tube. **No. E1612. List. \$1.25. 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 univerted 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 rewired. Also ideally suited for connecting accessory equipment such as phograph or short wave units. Indispensable for modernizing test equipment.



Socket (Top Section)			Plug (Bottom Section)		
No.	Holes	NET	No.	Holes	NET
No. E2975	4	15c	No. E2978	5	5c
No. E2976	5	15c	No. E2979	4	5c
No. E2977	6	15c	No. E2980	6	15c

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	E2984	E2985	E2986	No. Socket Plug	E2987	E2988	E2989
E2981	4	4	5	5	4	5	6
E2982	4	5	5	5	5	5	5
E2983	4	6	5	5	6	5	6
EACH	29c	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 and five prong base plus. 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 resistance connected 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 tired of hearing. Also suitable for connecting additional speaker to sets with one power tube. **No. E1630** 5 prong. **No. E1631** 4 prong. **List. Each, \$1.00. NET. 57c**

NEW TEST ADAPTERS

Latest adapters to permit testing of new tubes in all testers without rewiring. 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. 42
Supplied with lead to permit testing 1A100 41 and 42 tubes in 24 socket of tube checker. Also used for testing the new 6 prong Wunderlich tube. **No. E1634. List. \$1.00. NET. 56c**

No. 55
For testing 75 tube. Place adapter in tube checker socket used for testing 27 type tubes. **No. E1635. List. \$1.00. NET. \$1.43**

No. 85 Analyzer Plug
For use with set analyzers. Five prong receptacle on top and 6 prongs on bottom. Used in some of the latest types of set testers and analyzers. **No. E1636. List. \$1.00. NET. 42c**

No. 82 Adapter
For testing new 82 rectifier tube in any 4 prong sockets which furnish 2 1/2 volts 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 magnetic radio sets. **No. E1638. List. \$2.50. NET. \$1.43**

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

115 Volts D.C. to 110 Volts, 60 Cycle A.C.			
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. E8200.	5 Ampere. For 110-120 cycle operation. Wt. 15 lbs.	List. \$24.00. NET.
No. E8201.	2 Ampere. For 110-120 cycle operation. Wt. 10 lbs.	List. \$14.00. NET.

BATTERY BOOSTER

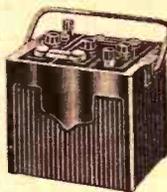
A small compact dry metal-plate charger for 6 volt storage batteries. Keeps an auto or radio battery fully charged. Cannot overcharge as charge tapers down, then shuts off automatically.

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. **\$573**
List. \$9.75. NET...

Valley Charger Contact Points

Standard replacement points for the Valley vibrator type charger. Complete with carbon brushes. No. E7600. List. \$1.00. **33c**
NET.

STORAGE "A" BATTERIES



A heavy duty solidly constructed battery that will deliver plenty of power. Plenty of "klick" 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.**

EXTRA HEAVY DUTY
A 6 volt, 140 amp. extra heavy duty, leak-proof storage battery. Delivers constant flow of energy. Shpg. wt. 55 lbs. **\$725**
No. E8968. **YOUR PRICE.**

2 VOLT "A" BATTERY
Sturdy, leak-proof, well-constructed "A" battery cell for the new type '30, '31, '32, and '35, 2 volt tubes. To be used only with standard receivers designed to operate with the tubes specified. No. E8970. **\$445**
YOUR PRICE.

EVEREADY AIR CELL



The Eveready Air Cell Battery is developed to supply filament 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. E8500. List. \$11.00. NET. \$5.95. less 2%...

\$583



Quality Storage Battery Charge Tester

No. E1440. Pocket size meter quickly shows condition of storage battery. Comes with voltmeter, 8 oz. NET. **58c**
No. E5480. DRY CELL TESTER. Tests all types of cells. Reads 0-35 amps. 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 volts-ammeter 0-10 amps and 0-50 volts. **68c**
YOUR PRICE.

King Cole Resistance Coils



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

No. E1113. For 5-1/4 amp. tubes.
No. E1110. For 6-1/2 amp. tubes.
No. E1114. For 7-1/2 amp. tubes.
No. E1111. For 8-1/2 amp. tubes.
List, \$2.00. **\$118**
NET EACH.

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

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 0-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, ranging 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 line voltage variation. Available also for operation of battery sets using 6 volt tubes. No. E1115. For 2 and 4 volt. List. \$3.50. **\$382**
YOUR PRICE.

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 1/2 x 4 1/2 x 7 1/2. Shipping wt., 12 lbs. A popular battery that has proved its quality in actual service, rendering long-time performance with efficiency and economy.

No. E700 List, \$2.25
YOUR SPECIAL PRICE \$1.35

KNIGHT STANDARD 45 VOLT "B"

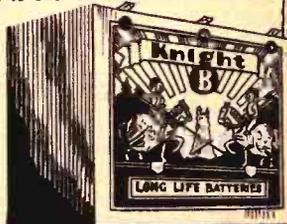
Standard, upright fine quality "B" battery. Will serve well with receivers using up to six tubes. Accurately cell spaced to offer remarkable recuperative power. Tapped at 22 1/2 volts. Dependable and uniform giving good battery service at a new low price. A very popular seller and profitable, too. Size 8x7x3 in. Shpg. wt., 10 lbs.

No. E701 List, \$2.00
YOUR PRICE 93c

1 1/2 VOLT DRY CELL

Made under rigid specifications of best materials. High amperage, 1 1/2 volts constant. For dry cell receivers and many other radio needs. Fresh stocks only. Shpg. wt., 3 lbs. No. E704 List, 50c.

21c
YOUR PRICE



KNIGHT QUALITY "B" BATTERIES

Now, more than ever, the popular line of quality "B" batteries. Ruggedly built of finest materials for real battery at all times. Combine rugged construction, high capacity and low internal resistance. Profitably priced to meet competition. Service and dealers everywhere welcome the consistently successful carry the consistently successful line of batteries.

No. E701 List, \$2.00
YOUR PRICE

4 1/2 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 1/4 x 2 3/4 x 4. Shpg. wt., 1 lb. No. E703 List, 50c.

19c
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	10 1/2	2.35	1.78
STANDARD "B" BATTERIES					
E721.	10308	45	13 1/2	\$2.60	\$1.96
E722.	2308	45	9 1/2	1.75	1.32
E713.	2308	45	10 1/2	2.00	1.51
E712.	2158	22 1/2	5	1.50	1.14
E711.	2158	22 1/2	5 1/2	1.50	1.14
MAJOR "B" BATTERIES					
E714.	F 308	45	13 1/2	\$2.95	\$2.25
E715.	D 308	45	9 1/2	1.95	1.48
SPECIAL AUTOMOBILE "B" BATTERIES					
E716.	2305	45	10	\$2.25	\$1.71
E717.	21305	45	16	3.75	2.75
"C" BATTERIES					
E718.	4156	22 1/2	1 1/2	\$1.25	\$0.95
E727.	5156	22 1/2	2	1.25	.95
E724.	2370	4 1/2	1 1/2	.40	.30
E728.	5540	7 1/2	1	.75	.57
PORTABLE BATTERIES					
E723.	5308	45	4	\$2.00	\$1.51
E726.	5380	4 1/2	1 1/2	.40	.30
DRY CELL "A"					
E725.	6A	1 1/2	2 1/2	.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	16	\$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	22 1/2 Flat	6	1.50	1.14
E744.	779	22 1/2 Vertical	6	1.50	1.14
AUTOMOBILE "B" BATTERIES					
E745.	794	45 Heavy	16	\$3.75	\$2.83
E739.	796	45 Medium	10	2.25	1.71
E740.	798	22 1/2	2	1.50	1.14
"C" BATTERIES					
E737.	768	22 1/2	2	\$1.25	\$0.95
E746.	773	7 1/2	8 oz.	.75	.57
E747.	781	4 1/2	6 oz.	.40	.30
E734.	771	4 1/2	1 oz.	.40	.30
PORTABLE BATTERIES					
E733.	762	45	3	\$2.00	\$1.51
E748.	763	22 1/2	1	1.50	1.14
E749.	764	22 1/2 Vertical	3	1.50	1.14
DRY CELL "A"					
E735.	7111	1 1/2	2 1/2	.50	\$0.39
AIR CELL "A" BATTERY					
E8500.	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.					76c
YOUR SPECIAL PRICE					

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.



No. E5940. List, \$3.00.

\$1.58

YOUR PRICE

THE SUPERTONE



A rigidly constructed crystal set which will give unlimited service. Gives the utmost in entertainment on local stations and with the extensive chain programs now 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 to 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.

58c

YOUR PRICE

PHILMORE SELECTIVE



Designed to give most efficient results and possessing unusual selectivity. Built with a tapped coil matched with a .0045 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.

\$2.45

YOUR PRICE

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 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.

List, \$7.50. YOUR PRICE

\$4.25

No. E5936. 2 Tube Set.

List, \$9.00. YOUR PRICE

\$5.25

No. E5937. 3 Tube Set.

List, \$13.50. YOUR PRICE

\$7.45

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 type 231 tube, one 22½ Volt "B" Battery and two 1½ Volt Dry Cells. Shpg. wt., 16 lbs.

No. E5943.

YOUR PRICE **\$2.85**

3 Tube Kit. Consists of two 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 their delicacy and clarity of tone. Their aluminum shells and bakelite moulded caps make them light in weight. The permanent magnet gives added retentivity. D.X. fans will be delighted with the fine reception quality headphones. Wt., 2 lbs.



No. E1916.

3000 Ohms.

YOUR PRICE

\$1.25

No. E1915.

2000 Ohms.

YOUR PRICE

97c

EXTRA CAPS

No. E1919.

PRICE, EACH

15c

DIAPHRAGMS

No. E1921.

PRICE, EACH

7c

GLASS ENCLOSED CRYSTAL DETECTOR

Dust-proof glass enclosed detector complete with supersensitive crystal. Standard in 30% of the crystal sets made. A fast selling item. Shpg. wt., 8 oz.

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. E3381. No. 175.

3000 Ohm.

YOUR PRICE

\$1.75

BRANDES PHONES

The excellent construction of the 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., 6 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. \$2.25
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. \$3.40
YOUR PRICE \$1.95

SENDING KEY

A standard radio sending key constructed to withstand rough use. Heavy cast brass arm, base and supporting posts; 3/4 inch contact points, assisting in heat dissipation.

No. E6651. List. Price, \$3.50.
YOUR PRICE \$2.04

SIGNAL SOUNDER

For code receiving. Made of high grade materials throughout. Black enameled bar frame, aluminum sounding bar and brass rider. Polished mahogany finished base.



No. E6655. List. \$2.75.
YOUR PRICE \$1.71

JUNIOR LEARNER SET

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.

No. E6654. List. \$4.50.
YOUR PRICE \$2.74

TEST BUZZER

Nickel finished watch case buzzer, diameter 2 3/8 in. For all signaling and test purposes.

No. E5265. List. \$1.00.
YOUR PRICE 73c



TEST BUZZER PUSH BUTTON

Best button held in 1/2 inch hole by spring clasps. Wt. 2 oz.

No. E5266. List. \$1.00.
YOUR PRICE 21c



SIGNAL TWIN WIRELESS PRACTICE SET

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 groups 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. List. \$2.00.
YOUR SPECIAL PRICE \$2.06

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.



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**

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.

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.

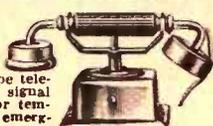
SPEED-X HI-SPEED PROFESSIONAL KEY

One of the finest automatic keys made. Balanced to perfection and fully adjustable to give plenty of "bep" 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 3/4 inch pure silver contacts. Base of bright black enamel. All nickel parts nicely polished. An exceptional value.

No. E6605. List. \$12.50.
YOUR PRICE \$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 twenty-tone effect. Complete with two-five feet of parallel silk-covered wire.



No. E1675. List. \$12.50.
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. **\$1.38**
NET, PER SET.
No. E796. 2,000 ohm. **99c**
SPECIAL, NET.



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 broadcast, modulation, telephone work, detectaphones, 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. E540. List. \$1.00.
NET, EACH 23c

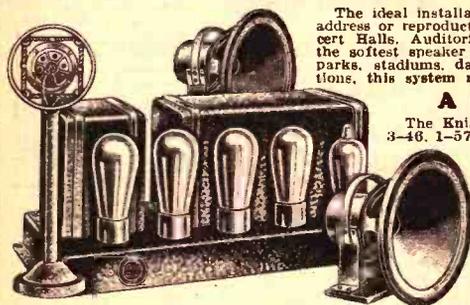


Public Address and Amplifying Systems

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 Dynamic 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 2-000 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—1 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 1-83 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 20 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 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 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 R.M.A. 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. Power 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.

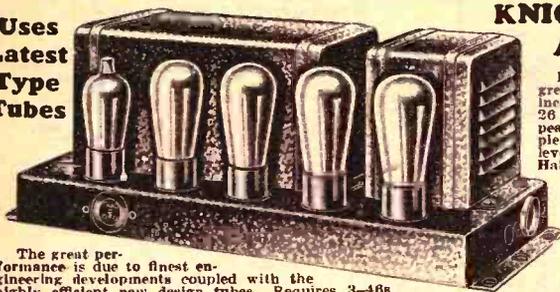
No. E9013.
List, \$75.00.
YOUR PRICE, \$24.95
Less Tubes

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, Theatre, 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 actual 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. **\$23⁴⁵**
YOUR PRICE

Same as above less microphone input and master volume control. No. E8991. **\$16⁷⁵**
YOUR PRICE

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 phonograph. 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 12x6 1/4 x 6 1/4 in. Furnished with 5 ft. A.C. cord. Shpg. wt., 12 lbs. Requires 1-57, 1-47, 1-82 tubes. No. E8992. Less Tubes. **\$12⁹⁵**

YOUR SPECIAL PRICE

Victor 2 Stage 245 Push Pull Amplifier

A wonderful value at a knock-out 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 A-B-C Power supply and amplifier for conversion of battery sets. Requires one 226, two 245, and one 280. Uses 2500 ohm speaker. No. E8707. Less tubes. **\$7⁴⁵**

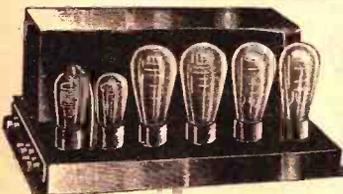
YOUR FEATURE PRICE

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 mils. Output transformer for 1,000 ohm field resistance. Undistorted 5 watt output. 110 v. 60 cycle A.C.

No. E8708. Less Tubes. **\$11⁴⁵**
YOUR SPECIAL PRICE

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 25 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, 1-46, 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. **\$27⁶⁵**
YOUR SPECIAL PRICE

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. .8 V. output. Less counterbalance. Shpg. wt., 2 lbs. No. E772. List Price, \$11.00. **\$5.15**
YOUR PRICE

MODEL 17 A HIGH OUTPUT MODEL

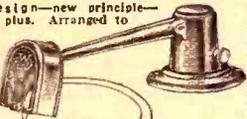
A special high output model for use with Receivers which have a low gain in their audio amplifier. Average output is 4 volts giving a nice volume without booster stage of amplification. Shpg. wt., 2 lbs. No. E771B. List Price, \$15.00. **\$8.82**
YOUR PRICE

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. Shpg. wt., 1 lb. No. E770E. List Price, \$2.00. **\$1.08**
YOUR PRICE

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 23,000 ohms at 1,000 cycles. Shpg. wt., 3 lbs. No. E7707. 10 B pick-up with built-in, adjustable balance. List Price, \$15.00. **\$7.94**
YOUR PRICE



Special 200 ohm, 10 B. Low Impedance Model. Shpg. wt., 3 lbs. No. E7708. 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

PHONOGRAPH PICKUP Transformer

Designed for coupling low impedance phonograph pick-up to grid of amplifier. Turn ratio 1 to 20. Black enameled case completely shields windings and core. Also is suitable for 200 ohm line to tube service. No. E4399. **\$1.65**
YOUR NET 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., 3 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., 15 lbs. No. E8139. For 60 cycle, 110 volt A.C. operation. List Price, \$30.00. **\$8.45**
YOUR PRICE

Diehl Phone 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.

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 phonograph. Turn back at will to regular 78 R.P.M. Only one model for all machines—springs 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, **\$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 7 inch circular opening and 3 inches below top of mounting board. A smashing value. Shpg. wt., 10 lbs. No. E9025. List Price, \$25.00. **\$9.95**
YOUR NET PRICE

SHURE MICROPHONES

MODEL 22 N—2 BUTTON

Large size, high quality, 3-button microphone for public address systems and amateur broadcast use. New, glazed carbon button discs, adjustable buttons, gold-plated diaphragm. Modernist design. Operates best at 6 to 8 M.A. per button. Total internal resistance 400 ohms per button. Over all diameter: 3 1/2". 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 1/2". Shpg. wt., 4 lbs. No. E7000. List Price, \$10.00. **\$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 tapped at 180 volts with a "C" bias of 27½ volts. Capable of handling two Dynamic speakers of high volume level and up to 5 at lower volume levels. Measures 5½ 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. **\$833**
YOUR PRICE
Stand only, with springs. **\$245**
No. E8983. **\$245**
YOUR PRICE

MICROPHONE AND PHONO INPUT CONTROL UNIT

Provides adequate mixing and switching facilities for all Public Address Systems, either mobile or stationary. Output impedance can be fed into standard high impedance amplifier. Measures 5½ x 5½ x 6 in. Requires one 4½ v. "C" battery. Milliammeter for direct reading of microphone current.
No. E8994. **\$1125**
Complete with battery.
YOUR PRICE

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 sound truck and mobile installation. Also for permanent or semi-portable use in various field situations for D.C. excitation from 110 D.C. line, or where field current is provided by amplifier. 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. List Price.
No. E8568. 1000 ohm. \$65.00.
No. E8569. 1500 ohm.
No. E8570. 2500 ohm.
No. E8571. 4000 ohm.
YOUR SPECIAL PRICE \$1125

COMPLETE BATTERY OPERATED TRUCK PUBLIC ADDRESS SYSTEM



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 (33½ r.p.m. and 78 r.p.m.). Pickup control panel has complete built-in microphone and phone control unit—2 powerful 14 in. Oxford Dynamic Speakers with 6 volt field for battery excitation and a 2 button microphone and stand. Less tubes and batteries. **\$13950**
List. \$275.00.
YOUR PRICE

SYSTEM AS ILLUSTRATED

No. E8567. 6 volt field. List Price.
No. E8568. 1000 ohm. \$65.00.
No. E8569. 1500 ohm.
No. E8570. 2500 ohm.
No. E8571. 4000 ohm.
YOUR SPECIAL PRICE \$1125



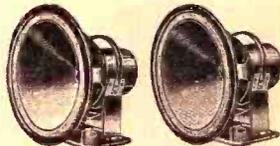
No. E8572. 110V. A.C. Complete with 280 tube. List. \$90.00. **\$1965**
YOUR PRICE



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.

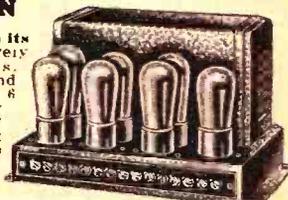
CLASS "B" AMPLIFICATION 20 WATT OUT PUT

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.



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 200 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 phone 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. **\$2725**
YOUR PRICE

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 base 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 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.		



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 8-8 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 30 watts continuously at 1,000 cycles. Less coupling transformer. Shpg. wt., 27 lbs. No. E829. List Price, \$75.00. **YOUR PRICE \$44.10**

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 amps. field current. Shpg. wt., 18 lbs. Less coupling transformer.



No. E8304. List \$50.00. **YOUR PRICE \$29.40**

Junior Dynamic Unit

Handles 6 watts continuously with peak load capacity of 20 watts. 15 ohm voice coil impedance. 6-6 volts field excitation. 1.1 amps. Supplied less coupling transformer. Shpg. wt., 14 lbs. No. E8301. List \$35.00. **YOUR PRICE \$20.50**



Baby Dynamic Unit

Handles 5 watts continuously with peak load capacity of 18 watts. 15 ohm voice coil impedance. 6 volt field excitation. 1 1/2 ampere consumption. Less coupling transformer. Shpg. wt., 9 lbs. No. E8302. List \$25.00. **YOUR PRICE \$14.70**



Power Magnetic Unit

Primarily for public address use. Provides continuous operating capacity of 2 watts. Impedance 2,000 ohms. Shpg. wt., 7 lbs. No. E8333. List \$30.00. **YOUR PRICE \$14.70**



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, 4,000 ohm primary impedance at 1,000 cycles.	\$11.76
No. E8308, 500 ohm primary impedance at 1,000 cycles. List, \$20.00. NET EACH	
GENERAL PURPOSE	
No. E8309, General purpose transformer. 117 1/2 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 1/2 in. wide, 11 in. deep. Attractively screened grille. Shpg. wt., 17 lbs. No. E859C. **YOUR PRICE \$3.85**



NEW RACON TRUMPETS

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



3 1/2 FOOT TRUMPETS

Bell 22 inches round. No. E8664, REGULAR. Equipped with metal beaded edge, metal ferrule and suspension rings. Adapted for 3/8-18 in. threaded unit. For indoor use only. Wt., 17 lbs. List Price, \$20.00. **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 weather. Shpg. wt., 20 lbs. List Price, \$40.00. **YOUR PRICE \$23.42**

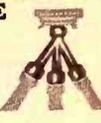
6 FOOT TRUMPETS

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 150 degrees. Shpg. wt., 8 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**

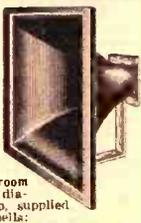
No. E8662, FOUR UNIT. Provides proper field excitation for four unit operation. List, \$60.00. **YOUR PRICE \$35.25**



P.A. HORNS—BAFFLES—SPEAKERS—UNITS

Racon Dynamic Baffles

The baffle horn is equivalent to a straight baffle of twice the size. As 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 ballroom broadcast. For dynamic diaphragms of 9 in. and up, supplied with the following size bells:



Bell Size, Inches	Depth, Inches	List Price	NET, EACH
EB675	18x30	10	\$ 7.64
EB676	27x27	24	23.52
EB677	36x26	24	23.52
EB678	41x11	13	40.00
EB679	44x14	24	45.00

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 Effective Power

No. EB302.	Length, 49 1/2 in.	Bell 3 1/2 in.	List, \$35.00.	\$17.50
YOUR PRICE				
No. EB303.	Length 53 in.	Bell 3 in.	List, \$42.00.	\$21.00
YOUR PRICE				

RCA Photophone Auditorium Speaker

Superb for sound systems 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 15 watts, and at least four with 20 to 25 watt systems, for life-long service.

No. EB709.	Less Baffle.	\$6.95
YOUR PRICE		
No. EB708.	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.

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 to maximum volume to full resonance of maximum output. No "rain barrel" effect. Comparable 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 matching without recourse to a speaker output transformer. The magnet is oversized for durability and power of performance. The large diaphragm responds readily to vibrations impressed upon it by the magnet. Large 10% in. cone.

EOB82. Retail Value, \$16.00.

YOUR SPECIAL PRICE..... **\$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 cabinet 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. EB811.

YOUR SPECIAL PRICE..... **\$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, cadmium coated against rust and will be surprised at its performance. A real bargain.

No. EB810.

YOUR LOW PRICE..... **\$1.95**

WRIGHT DE COSTER DYNAMIC HORNS



A scientifically corrected dynamic speaker horn for broadcast purposes. Used where distance is of basic importance. Non-weatherproof. Black weatherproof finish. Horn No. 5—Length 48 in., bell 23 in. x 22 in. Shpg. wt. 71 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 21 1/2 in. Shpg. wt. 71 lbs. No. E9001. List, \$30.00. **\$17.94** Horn only. YOUR PRICE.....

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 transformer. Please mention definitely the quantity 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, \$50.00.

NET No. E9003. 215 Jr. 110 V. D.C. 6 watts. 2500 ohms. List, \$34.00. **\$29.40**

NET **\$19.99**

WRIGHT DE COSTER VEHICLE SPEAKERS

The Wright-DeCoster "FAT" VEHICLE Speaker for automobile sets has the same brilliant tone quality and faithful 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". No. E9005. Push-Pull "3R". List, \$11.50. **\$6.76** YOUR NET PRICE

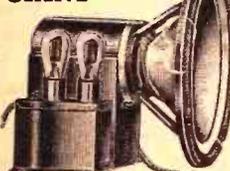
WRIGHT DE COSTER No. 255 SPEAKER

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 1/2 in. Depth 3 1/2 in. In ordering please specify 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, \$6.50. **\$3.83**

OXFORD GIANT



For a large theatre. For outdoor work with large baffle. Will cover an enormous area in every direction. Baffle opening, 13 in. Wt., 75 lbs. Offered at a startlingly reduced price. No. EB586. List, \$100.00. **\$35.45** YOUR PRICE. Less Tubes.

AUDITORIUM DYNAMIC

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

A.C. Operation

A detached power unit is provided which requires two 1250 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, 13 in. Wt., 75 lbs. Offered at a startlingly reduced price.

No. EB586. List, \$100.00. **\$35.45** YOUR PRICE. Less Tubes.

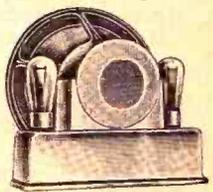
BEST THEATRE DYNAMIC

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 2B1 rectifier tubes. Due to the high air stream flux density (avz. 16,000 lines per sq. cm.) and the specially constructed voice coil, the speaker efficiency is very high. Supplied with impedance coupling transformer in base. Dimensions: 12 1/2 in. wide, 13 1/2 in. high, 10 1/2 in. deep. Diameter of baffle opening, 12 in. 110 volt A.C. 60 cycles. Shpg. wt., 63 lbs.

No. EB085. 4,000 ohm. Less tubes. List, \$95.00. **\$44.10** YOUR PRICE



\$44.10

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 UTAH A. C. DYNAMIC SPEAKERS

These Utah new design speakers have surpassed even the height of perfection previously attained by Utah peak standards. The finely developed field design results in tone quality and volume capacity 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., 60 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 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**
List, \$7.50. 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. 60 c.
No. E8221. List, \$30.00. **\$1176**
NET.

K-1 AUTO SPEAKER

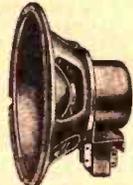
Jensen K-1 speaker as described above with 6 volt field for automobile sets. Enclosed in rugged, weather-constructed case. Very compact to facilitate installation.



No. E8205. For Single 28.
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.

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

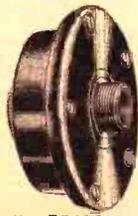
14 inch. Widely used for theatre, public address and outdoor announcing.
No. E8236. For 110 v. D.C. Shpg. wt., 45 lbs. **\$2646**
List, \$45.00. YOUR PRICE.
No. E8237. 110 v. A.C. For 171-245-250 tubes. Including 82 Rectifier Tube. List, \$67.50. **\$3969**
NET.

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**
List, \$22.50. NET.
No. E8239. 110 v. A.C. For P.P. 245 or 250 tubes. **\$19.11**
List, \$32.50. NET.
(Can be supplied for other tubes.)

GERMAN 3-COIL UNIT



The advanced mechanical design and precise accuracy 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 BIG CHIEF MAGNETIC



A highly developed magnetic console unit for use in battery operated sets in conjunction with the new air cell A 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 precisely constructed of highest 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. E1416. List, \$10.00. **\$135**
YOUR PRICE.

Unshielded
Same as above, unshielded. No. E1413. List, \$7.50. **95c**
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 for amateur broadcasters are incorporated in this popular-priced model. Faithful tone. Pure 200 ohm centers. 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 1/2". Over all thickness, 1".

No. E7400. List Price, \$10.00. **YOUR PRICE \$5.88**

Model BB—2-Button

Nearly twice as heavy as any other microphone in its class. Built to hair-line precision. Constructed especially for voice pickup, public address work and for amateur broadcasters, experimenters, 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: 70 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 8,000 cycles. 200 ohms resistance per button. Constructed of finest materials, finished in 24 Kt. polished gold. 2 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 sockets 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 work where elegance of appearance, beauty of design, and true reproduction of voice are demanded. Consists of a tube with a center partition, providing space for a standard 1 1/2 volt No. 6 dry cell battery. Adjustment screws permits 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. Pure gold spot center diaphragm. No. E7403. List Price, \$2.00. **YOUR PRICE \$1.18**

MODEL "W"

Smallest completely protected and workable 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-lapel. 200 ohms, 1 1/2" in diameter. 3/4" thick. Pure gold spot center diaphragm. No. E7404. List Price, \$3.00. **YOUR PRICE \$1.76**



Model "A"—Single Button

Sold, heavy duty design. New 24 Kt. gold faced diaphragm. 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**



HAND-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 mls. current. No. E7414. Single button with thumb switch and 15 ft. cord. List Price, \$10.00. **YOUR PRICE \$5.88** No. E7405. Two button. 200 ohms resistance per buttons. With 6 ft. cable. List Price, \$15.00. **YOUR PRICE \$8.82**



NEW UNIVERSAL DESK STAND

Fits Universal Mike Models X, BB, A, and K.K. Overall, with convenient suspension hook at top. Microphone ring 4 1/2" in diameter complete with four eye screws. Banquet chrome 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 screws. Microphone ring 5 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 or a necessary. Complete instructions. Case of white 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 a single button of 200 ohms resistance and circuit switch. 3 1/4 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 1/2" high, finished in highly polished nickel plate and furnished with a 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**

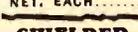


Mike Connectors

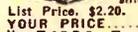
Knife blade 3 prong connectors used extensively in microphone circuits, etc. 10 amp., 250 volt type. Adjustable clamps for holding cable firmly. Perfect contact. No. E7408. 3 prong Socket. NET. **49c** No. E7409. 3 prong Plug. NET. **38c**



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. E5304. Two button. NET. Each, \$5.50. **\$1.35**



SHIELDED MICROPHONE TRANSFORMERS No. E4395. Single button. A compact inexpensive coupling transformer. Turns ratio 1 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, \$3.75. **YOUR PRICE \$2.03**



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

1933 OFFICIAL RADIO SERVICE MANUAL NEW VOLUME NO. 3

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, service, technical meter data, complete actual circuit, the manual will be conveniently the same. Over 700 pages with more than 2000 diagrams, hookups, charts, illustrations and actual photographs of sets.

Free Question and Answer Service

With each copy, absolutely free, 24 Question and Answer coupons. Thorough and complete answers by mail on servicing and operating on any sets or circuits, whether mentioned in Volume 3 or not.

Contains only practical information, compiled efficiently for ready reference. Complete operating notes and hints by practical service men; long and

short wave receivers, adapters and converters; modern servicing instruments; tube-chart, facts; interference elimination; automobile radio installation and 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. No. E3620. List, \$5.00. **YOUR PRICE \$4.00**

1932 Service Manual

Entirely different from the 1933 MANUAL. A complete directory of all 1931-1932 radio receivers. A required item in every service man's kit. Over 1,000 pages. In loose-leaf form, bound in flexible leatherette. Shpg. wt. 5 lbs. No. E3619. List, \$5.00. **YOUR PRICE \$4.00**

Drake's Cyclopedic

The standard reference book for radio men. The 5th Edition of the F. M. O. S. Drake's Cyclopedic, covering the whole field of radio and electronics in one handy volume. Its contents: Radio transmission and reception, Sound pictures, Television, Photocells and Public Address. 1048 pages, 1700 headings, 1178 illustrations, 130 tables and 1065 graphs. Handsomely bound in durable cloth. Shpg. wt. 8 lbs. No. E273. **YOUR PRICE \$3.92**

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Form an inexpensive, but up-to-the-minute radio library with the RADIO-CRAFT SERIES. Carefully compiled and completely authentic in substance. Each book consists of 84 pages, 6 x 9 inches with 50 to 120 illustrations. They are bound in stiff board covers. Shpg. wt. 2 lbs.

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No. E3628. "HOW TO BECOME A RADIO SERVICE MAN."

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No. E3632. "HOME RECORDING AND ALL ABOUT IT."

No. E3633. "BRINGING ELECTRIC SETS UP TO-DATE."

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By special arrangement with the publishers, we are able to offer the following popular magazines at greatly reduced subscription rates. Only yearly subscriptions taken.



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"Radio's Livest Magazine." Published monthly, with each issue containing over 150 important diagrams, hook-up photos and illustrations. 12 issues mailed monthly from the publishers. Subscription must be prepaid. No. E3622. One Year's Subscription \$1.90

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Exclusively a short wave magazine and provides therefore the very latest and most authentic short wave information. Keep up with new developments by subscribing immediately. No. E3621. One Year's Subscription: 12 issues \$1.90

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Grow with Television. Subscribe to Television News, the criterion of this new industry. No. E3617. One Year's Subscription: 12 issues \$1.20

How to Build and Operate Short Wave Receivers

Contains a wealth of material on the building and operation of typical short wave receivers as well as short wave converters. Contains over 160 illustrations and measures 7 1/2 x 10 inches. Shpg. wt. 2 lbs. No. E3635. **YOUR PRICE 40c**



How to Become an Amateur Radio Operator

This book covers everything on the subject. Brand new material. Over 150 illustrations. Measures 7 1/2 x 10 inches. Shpg. wt. 2 lbs. No. E3636. **YOUR PRICE 40c**

Electrad Resistor and Volume Control Handbook

A perpetual guide to resistor and volume control values. Keep 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. No. E3000. **YOUR PRICE \$1.00**



RIDER'S \$1.00 Series

The popular Rider books covering timely topics. Well illustrated. Shpg. wt. 2 lbs. No. E3610. SERVICING SUPERHETERODYNES. No. E3611. SERVICING AUTO RADIO RECEIVERS. No. E3612. SERVICING RECEIVERS BY MEANS OF RESISTANCE MEASUREMENTS. NET EACH \$1.00



Radio and Electronic Dictionary

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. The only book of its kind. Shpg. wt. 3 lbs. No. E273. **YOUR PRICE \$2.19**

YOUR PRICE \$2.19

RIDER'S PERPETUAL TROUBLE SHOOTERS MANUAL—VOLUME NO. 2

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 rapid and accurate service work. Shpg. wt. 8 lbs. No. E3618. **YOUR PRICE \$5.00**

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Supplements Volume 2 for a most complete manual. Service at a profit. Handsomely bound in convenient loose-leaf form. Shpg. wt. 8 lbs. 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 tubes which make use of the audio tubes in the receiver only.

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

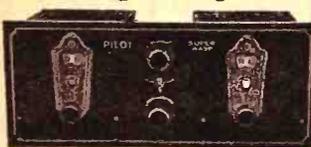
This Converter makes a Superheterodyne receiver out of a T.R.F. set and can be connected to any A.C. radio set whether T.R.F. or Superheterodyne. For greater volume and selectivity, utilizes one '27 tube which obtains power from radio set through adapters furnished with each unit.

No. E4205. Less tube.

No. Price, \$8.00.

\$4.45

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. Require 8 volts of "B" current and 135 volts "B". All parts fully prepared, easily assembled and wired. Complete with ten plug-in coils for all wave lengths, from 1 1/2 to 500 meters. Front panel 7 1/2 x 18 in. Assembled set 9 1/2 in. deep. Reduced price.

No. E8641. Less Tubes.

\$28.67

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 pack and tubes.

YOUR PRICE **\$33.08**



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, 4-225'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 280 tube.

\$16.02

No. E5971. K-112. Supplies power for 2-215's, 4 or 7-224'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 amp. and 2 1/2 V. at 3.5 amp. Requires 280 tube.

\$28.67

YOUR PRICE

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, \$54.60.
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 **\$24.95**

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. E945. For .00035 condensers.

YOUR PRICE **73c**

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.

To match S.W. Tuner.

YOUR PRICE **42c**

RADIO FREQUENCY CHOKES



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

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

No. E4253. 80 M.H.

No. E4254. 30 M.H.

No. E4255. 60 M.H.

58c

No. E4256. 10 M.H.

For use with sets tuning 600 to 2,000 meters.

No. E4257. 3.5 M.H.

For short wave use of 10 to 225 meters.

No. E4258. 2.5 M.H.

For use up to 550 meters.

NET EACH **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 airtime tuning. 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 arc of bakelite. Handles engraved with identifying coil number. Four coils in set, covering range from 15 to 210 meters when used with .001 midset condenser.

No. E950. List, per set of 4 coils, \$3.75.

YOUR PRICE **\$1.38**

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 1/2 in. high, 1 in. diameter.

No. E5944. 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. Shpg. wt., 8 lbs.

An exceptionally remarkable short wave value.

No. E953. Less tubes. List, \$25.00.

YOUR PRICE **\$8.75**

NE 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 1/4 in. high, 1 1/4 in. diameter. Use with .0036 condenser. Covers 1760 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. **44c**

WUNDERLICH COIL

Same size and mounting as above but with center-tapped inductance for Wunderlich or 55 tube circuit. No. E5269. **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. **\$1.32**

WUNDERLICH 5 TUBE KIT

Contains 1 Ant. Coil and 2 Tapped R.F. Coils. No. E5287. **\$1.52**

(All kits include schematic diagrams.)

High Gain Superhet Coil Kits

Complete set of coils for five tube 175 Kilocycle Superheterodyne. Uses the 55 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 (transformer), one band pass pre-selector, and an output I.F. transformer. Cans sized 2 in. x 2 in. x 2 in. high. Top tuning. For Superheterodyne uses 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 1/2 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-Net 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. (.00036 mfd.) Enclosed in square cans. 2"x2"x3" No. E5276. **\$1.23**

Shielded Preselector

High gain shielded band-pass preselector. Utilized in five tube superheterodyne as listed on this page. Contained in square can 2 1/2 x 3 1/2 high. Top tuning, base mounting, with lead at bottom. No. E5277. **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 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 1/2 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. **\$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 low loss forms. 16 to 200 meters range when tuned with .00015 mfd. variable condenser. No. E1490. **\$1.68**
List, \$3.50. **NET**

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 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 plug coil kit of superhet or for any T.R.F. receiver. Can also be used as antenna choke. Diameter 1". Center hole mount.

No. E5284.	23c
6 Millihenry. NET	
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. Turns 200 to 350 meters with .00035 condenser. Readily adaptable for operation with multigang or single condensers. No. E7208. **68c**
Set of 3. **NET**

THREADED BAKELITE COIL FORMS



No. E6831. Threaded Coil Forms 1 in. diameter. 1 1/2 in. long; 30 threads per inch. **5c**
No. E6832. Unthreaded. 1 1/2 in. outside diameter. 2 1/2 in. long. **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**
Lots of 10, 45c. **EACH**

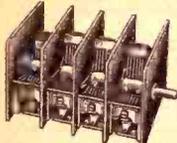
Bakelite Coil Forms



Black 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 adjustments 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 1/2 x 3 x 2 1/2.	\$1.39
List \$5.50.			
NET EACH.			
No. E2724.	3 gang.	Size 4 1/2 x 3 x 4 1/2.	1.98
List \$8.25.			
NET EACH.			
No. E2725.	4 gang.	Size 4 1/2 x 3 x 5 1/2.	2.68
List \$11.00.			
NET EACH.			

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

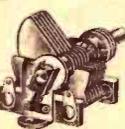
No. E7260.	Single.	\$0.58
PRICE		
No. E7261.	2 gang.	1.25
PRICE		
No. E7262.	3 gang.	1.75
PRICE		

.00015 CAPACITY

No. E7243.	Single.	\$0.55
PRICE		
No. E7264.	2 gang.	1.15
PRICE		

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 are either soldered or riveted. Vibration-proof construction. Ideal for Auto Receivers.



Short Wave and

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	11	6	80	2.00	1.15
E3931	14	6	100	2.30	1.35
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	330	3.50	2.06

DUAL MIDGETS

No. E3919.	100 Mmf. Per Section.	List, \$4.40.	NET \$2.59
No. E3918.	140 Mmf. Per Section.	List, \$1.80.	NET 2.82

SPECIAL VALUE CONDENSERS

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

No. E5414.	.00025.	34c
No. E5405.	.0003.	
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	35c
E7251	5	4	30	35c
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 1/4 in. shaft, for coupling or ganging single condenser sections into multiple units. No. E5968. List, 40c. **24c NET**

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 old or midget receivers, auto sets or replacement work.

RIGID CONSTRUCTION—SELF ALIGNING

Shaft is turned brass, standard 1/4 in. ball bearing 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 1/2 in. deep, 3 1/2 in. wide. Individual sections, 1 1/4 in. across.

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

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.	\$1.95
YOUR NET PRICE.	

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 ranging of two or more condensers. Connection to Rotor made by brass pigtail, insuring positive noiseless contact. No. E5972. .00016. **YOUR PRICE \$1.03**
No. E5973. .00025. **1.03**
No. E5974. .00035. **1.08**
No. E5975. .0005. **1.23**



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 1/2 in. x 3 in. x 3 in. wide. Capacity .00014 per section. Two sections for short wave circuits. No. E576. List, \$5.00. **YOUR PRICE \$1.96**

NEW PILOT MIDGET CONDENSERS

Valuable for neutralizing R.F. amplifiers, antenna couplings, tuning verniers, regeneration control, short wave tuning, etc. 1/4 in. shaft. Very rugged construction. Size 1 1/2 in. wide, 1 to 1 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**



SOCKETS-PLUGS-DIALS-ADAPTERS-ETC.

EBY BAKELITE SOCKETS



Type 12
Staunchly constructed bakelite socket. Entire shell and base moulded in one piece.

"Universal" type—either for above panel or sub-panel wiring. Improved design insures perfect prong 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—1 1/4" mounting center. **25c**
List. 50c. NET.

TYPE-6 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. **6c**
No. E2880. 6 Prong. **6c**
YOUR PRICE. EACH... \$4.25
NET Price. 100 Lots Asst... **8c**
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... **5c**
100 Lots Asst... \$3.85.

PILOT LIGHT BULBS



GENUINE G. E.
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 raised contact for continuous experimental work.
No. E994. 4 Prong. **11c**
YOUR PRICE. EACH... **13c**
No. E995. 5 Prong. **16c**
YOUR PRICE. EACH... **16c**
No. E996. 6 Prong. **16c**
YOUR PRICE. EACH... **16c**



SMALL SPACE SOCKET

Occupies small space. mounts above or below panel. Mounting holes 1 1/4" center panel 1 3/4". Affords positive contact.
No. E990. 4 Prong. **13c**
No. E991. 5 Prong. **13c**
No. E992. 6 Prong. **13c**
NET EACH... **18c**
No. E993. 7 Prong. **18c**
NET EACH... **18c**



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**
No. E992. 6 Prong. **15c**
YOUR PRICE... **15c**



EBY ISOLANTITE SOCKETS

Eby low loss Isolantite sockets. Designed especially for television and short wave sets.
No. E2885. 4 Prong. **20c**
NET EACH... **22c**
No. E2886. 5 Prong. **22c**
NET EACH... **22c**



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 yonet 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... **12c**



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 design. This socket arrangement is safest method of connection to "hot" wires.
No. E2875. 4 Prong. **20c**
No. E2876. 5 Prong. **20c**
NET EACH... **25c**
No. E2877. 6 Prong. **25c**
NET EACH... **25c**



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 irons.
No. E2887. 4 Prong. **7c**
No. E2888. 5 Prong. **7c**
No. E2889. 6 Prong. **7c**
NET EACH... **7c**
PER 100. ASSORTED... \$4.50



CHASSIS MOUNTING TYPE

Eby male plug 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. E2890. 4 Prong. **9c**
No. E2891. 5 Prong. **9c**
EACH... **9c**
No. E2892. 6 Prong. **9c**
NET EACH... **9c**



KURZ KASCH DIAL

Smooth positive movement without backlash. Genuine bakelite, highly polished. These dials have universal readings, 0-100-0.
No. E4806. 4 in. diam. **59c**
List. \$2.00. NET... **49c**
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. 4 in. diameter.
No. E3990. 0-100. **43c**
No. E3991. 100-0. **43c**
YOUR PRICE... **43c**



2 TONE BAKELITE KNOB

Two tone effect and well proportioned calling for most receiver designs. Smooth, polished finish.
No. E2320. 1" **7c**
No. E2319. 1 1/4" **7c**
NET EACH... **7c**



WALNUT RADIO KNOBS

High grade solid wood one piece construction. Substantial heavy brass 3/8" bushing. Good lasting fit is assured. Two designs as illustrated.
No. E7605. 1" **9c**
No. E7606. 1 1/4" **9c**
No. E7607. 1" Lower Knob **9c**
No. E7608. 1 1/4" **9c**
Per 100. \$8.25. NET. EACH... **9c**



NEW DIALS

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. Less built.

FAN TYPE

Precisely built Fan Type dial with distinctive window escutcheon as illustrated. 0-100 outside dial diameter. 1 3/4" Pilot hole. 1 1/2" h t socket.



No. E2257. NET WITH ESCUTCHEON... **61c**

FULL VISION DIAL

A 90° full vision dial with built-in socket and standard scale. Beautifully designed escutcheon 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 and 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. readings 0-100 over 150° arc. Perfect flexibility. New type cable drive permits smooth positive regulation. No backlash. Complete with 6 built 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



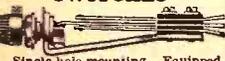
Toggle type with 1/4 in. m. plug switch, providing positive make and break contact. Single hole mount. Wt. 6 oz. No. E2580. Retail. 60c. YOUR PRICE **33c**

C-H.A.C. TOGGLE SWITCH



A high grade, underwriter approved toggle switch with nickel plated mounting plate. Plate 1 1/2 x 1 in. Depth 1 1/2 in. Used as "on-off" switch for 110 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 splined value. No. E5402. 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			MAHOAGANY		
No.	EACH	Size	No.	EACH	Size
E3644	\$0.24	7x6	E3661	\$0.35	7x6
E3645	.32	7x9	E3662	.53	7x9
E3646	.54	7x12	E3654	.72	7x12
E3647	.64	7x14	E3655	.82	7x14
E3648	.79	7x18	E3656	1.08	7x18
E3649	.89	7x21	E3657	1.26	7x21
E3650	1.04	7x24	E3658	1.44	7x24
E3651	1.18	7x26	E3659	1.57	7x26
E3652	1.32	7x30	E3660	1.78	7x30

WALBERT PANELITE



Mounted on panel above the dial. It throws a shielded, unglazed light. Complete with 6 volt miniature bulb. Single hole mount. No. E5410. NET **23c**

SWITCH POINTS AND STOPS

Solid brass. Heavily nickel plated. No. E5550. Switch Points. No. E5551. Switch stops. YOUR PRICE, PER DOZEN **35c** NET, PER 100 **5c**



Bakelite Knife Switch

Suitable for battery circuits. Bakelite base. Nickelled brass contacts. All types 2 1/2 in. long. E5374. Single Pole. Double Throw. NET **25c**
E5375. Double Pole Double Throw. NET **45c**
E5376. Triple Pole Double Throw. NET **59c**
E5377. Five Pole Double Throw. NET **\$1.08**

PORCELAIN KNIFE SWITCH

Heavy copper blades, insulated handle. Weight, 1 lb. E4780. Single Pole Single Throw. NET **9c**
E4781. Single Pole Double Throw. NET **14c**
E4782. Double Pole Single Throw. NET **18c**
E4783. Double Pole Double Throw. NET **22c**

MIDGET SWITCHES

Bakelite switch, for base or panel mount. Base, 1 1/4 in. long. E5378. Single Pole Single Throw. NET **8c**
E5379. Single Pole Double Throw. NET **13c**
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. 1/2 in. Shank. Antique Bronze. S.P.S.T. List. 40c. NET **22c**
No. E4236. 3/4 in. Shank. Antique Bronze. S.P.S.T. List. 45c. NET **24c**
No. E4238. 1/2 in. Shank. Nickel. 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. 3/4 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 line 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—WAY AND 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. Mention color wanted. 3/8 in. thick.

No.	Size	EACH
E2270	7x6	\$0.54
E2271	7x9	.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, 1/4 in. long. No. E2950. Ant. No. E2951. Gnd. No. E2962. Input. No. E2963. Output. No. E2970. +. No. E2971. -.
No. E2954. Speaker +. No. E2955. Speaker -.
No. E2972. Plain. List. 15c Each. YOUR PRICE **9c**

SPECIAL PER DOZ. **95c**

BAKELITE TUBING

For winding coils. Genuine bakelite 3 inch lengths—1/2 inch Dia. 2 in. EACH **12c**
No. E2280. Inside Dia. 2 in. EACH **12c**
No. E2283. Inside Dia. 3 1/4 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 1/8 inches square, 3/4 inch thick. Speaker opening 8 1/4 inch diameter. With speaker mounting bolts and nuts. No. E8099. YOUR PRICE **18c**

GEM TONE CONTROL

Brings 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 stretch 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. 3 1/2 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, 35 amp. **YOUR PRICE 6c**
E5359, 50 amp. **YOUR PRICE 12c**
EACH.

CONNECTING CLIPS

For connecting wires to "B" batteries, etc. A super-efficient connecting clip. Wt. 10 oz. No. E5362. Nickel finish. **YOUR PRICE 35c**
PER DOZ

MUELLER BATTERY CLIPS

Strong-springed 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**
NET.
No. E5351, 2 1/4" long, 25 amp. capacity. No. 34-A. Box of 10. **60c**
NET.
No. E5352, 3 3/8" long, 50 amp. capacity. No. 21-A. Box of 10. **\$1.20**
NET.
No. E5353, 5 1/2" long, 100 amp. capacity. No. 11-A. PRICE, **35c**
EACH.

PIN JACKS

Nickel plated bronze springed 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, EACH 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.
No. E1989, No. 333. 2 position. 3 springs; opens and closes one contact. **35c**
List, 60c. NET.
No. E1990, No. 344. 2 position. 4 springs; closes two contacts. List, 70c. **41c**
NET.

No. E1991, No. 355. 2 position. 5 springs; opens one, closes two. **47c**
List, 80c. NET.
No. E1992, No. 366. 2 position. 6 springs; opens two, closes two. **53c**
List, 90c. NET.

Carter Short Jacks

Require but small space. No. E1983. Open circuit output. **YOUR PRICE 15c**
No. E1984. Single closed circuit. **18c**
NET.

Push Button Switches

Cadmium plated steel springs. Bakelite knobs. Fully insulated. Latched. On Locking 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. **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. No. E1985. Retail, 10c. **YOUR PRICE 5c**

Western Electric 4 Pole-Double Throw

A fine Western Electric 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-waveband radio receivers. Noted features are negligible capacity 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
			At Once	Up to		
E3070	1	2	1 or 2	2	\$0.65	\$0.41
3071	2	2, 3, 4 or 5	2 or 4	4	1.00	.59
E3072	3	3	3 or 6	6	1.50	.85
E3073	4	4	4 or 8	8	2.00	1.18
E3074	5	5	5 or 10	10	2.50	1.47
E3075	6	6	6 or 12	12	3.00	1.76
E3076	7	7	7 or 14	14	3.50	2.05
E3077	8	8	8 or 16	16	4.00	2.35
E3078	9	9	9 or 18	18	4.50	2.65
E3079	10	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 near assembling 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. No. E3086 Speaker Moulded. No. E3087 Phono Moulded. No. E3088 Plain Moulded. No. E3089 Speaker Laminated. No. E3090 Phono Laminated. No. E3091 Plain Laminated. **6c**

CARTER NEW SHORT JACKS

A short jack of exceptionally heavy construction that meets all the small space. Springs held by heavy cadmium plated steel frame, assuring good contacts. Mounts in single "hole". No. E1945, Carter 501. One spring; open circuit. **24c**
List, 40c. NET.
No. E1946, Carter 502. Two springs; closed circuit, breaks one contact. **29c**
List, 50c. NET.
No. E1947, Carter 503. Three springs; open circuit, with one insulated make contact. Single filament control. **35c**
List, 60c. NET.
No. E1948, Carter 503A. Three springs; makes one and breaks one contact. **35c**
List, 60c. NET.
No. E1949, Carter 504. Four springs; breaks two contacts—double circuit. List, 70c. **41c**
NET.

Rotary Snap Switches

High grade rotary snap switches. Contact has remarkably perfect, low resistance characteristics, even at fiercest severe use. For use on 125 volts, 3 amps, and 250 volts, 1 amp. Wt., 8 oz. No. E3082. Single pole, single throw. **15c**
List, 25c. NET.
No. E3083. Single pole, double throw. **18c**
List, 30c. NET.
No. E3084. Double pole, single throw. **24c**
List, 40c. NET.
No. E3085. Double pole, double throw. **30c**
List, 50c. NET.

New A. C. Power Switch

A positive contact rotation 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's non-carbonizing material. Springs are of German silver with special contacts. TYPE 1042 Three sets of make or break contacts. Single locking. 8 oz. No. E5578. **YOUR PRICE \$1.25**
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 1/4" x 3".

No. E4901. List, \$5.00. 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 barometer. Will give efficient service.

Size, 5 1/2" x 1 1/2". Shpg. wt. 1 lb. **No. E4902. List, \$1.00. NET 68c**



IMP GASOLINE TORCH

Entirely automatic with a perfect Bunsen flame over 5000° 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 1 1/4". Shpg. wt., 1 lb. A bargain.

No. E4904. List, \$1.00. YOUR PRICE 59c



NO. 175 DUPLEX BLOWTORCH

A Lenk heavy duty torch featuring a Bunsen burner for outdoor use and heavy soldering work. Bunsen burner can be detached if needle point is desired.

Adjustable Flame

The pressure valve on burner permits adjustment between 1200° and 3000°. Size, 6 1/2" x 2 1/2" x 1 1/2". Shpg. wt., 1 1/2 lb. **No. E4905. List, \$1.75. YOUR PRICE 98c**



LENK NO. 30 CHAMPION BLOWTORCH

A new Lenk product, ideal for radio and other soldering work. Entirely automatic. Produces powerful blast; will develop up to 2000° F.

Starts in 20 seconds. Well built of heavy gauge brass. Nickel finished. Seamless, one-piece construction. Compact, measures only 7 in. by 2 in. Shpg. wt., 2 lbs.

No. E4903. List, \$3.00. YOUR PRICE \$1.76



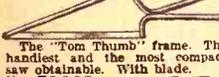
Miller-Fall Hack Saw Frame



An adjustable hack saw frame. Blade can be faced four ways. Adjustable for 8 to 12 in. blades. Equipped with one 10 in. blade. Shpg. wt., 3 lbs.

No. E3667. List, \$1.00. YOUR PRICE 35c

MIDGET HACKSAW



The "Tom Thumb" frame. The handiest and the most compact saw obtainable. With blade.

No. E3668. List, \$1.00. YOUR PRICE 15c

HACKSAW BLADES

Tempered steel, properly edged.

No. E3669.	8 in.	Doz. NET 35c
No. E3670.	10 in.	Doz. NET 42c
No. E3671.	12 in.	Doz. NET 55c

TAP AND DIE SET

A set of taps and dies for standard radio size screws and nuts, including 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 3, 3 1/2, 4, 4 1/2, 5, 5 1/2, 6, 6 1/2, 7, 7 1/2, 8, 8 1/2, 9, 9 1/2, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100.

No. E3790. List, \$9.00. NET \$5.40



GOODELL-PRATT RADIO TOOLS

AUTOMATIC DRILL



GoodeLL-Pratt automatic drill supplied complete with eight drill points. Cuts quickly and makes clean holes 1/4 to 1 1/4. Well built spiral drill mechanism is practically indestructible. All exposed parts highly polished nickel plated. Drills contained in bakelite handle—each in separate numbered compartment. Length, 10 in.

A useful tool.

No. E3675. List, \$10.00. YOUR PRICE \$1.03

HAND DRILL

Highly serviceable with solid steel frame and single speed, out gears. Equipped with three-jawed chuck holding any size drill up to 1/2". Large gear, red enameled. Mahogany finished hardwood handle. Length, 10 1/2". Shippings wt., 3 lbs.

No. E3676. List, \$1.00. 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". Shippings weight, 4 1/2 lbs.

No. E3677. List, \$1.49. YOUR PRICE \$1.49



RADIO TOOL CHEST



A practical, inexpensive tool 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 1/4 to 1 1/2 in. Wt., 2 lbs.

No. E1565. List, \$1.69. 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 Ratchet Tool Holder, 1 Countersink, 1 3/4 inch screwdriver; Blade 1/4 inch wide.
- 1 1/4 inch Screwdriver; Blade 3/8 inch wide.
- 1 Double End Hexagon Wrench for Hex Nuts.
- 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 1/2 inch Hexagon Wrench for Hex Nuts.

No. E3678. List, \$2.88. YOUR PRICE \$2.88



GOODELL-PRATT BRACE

A big value in a serviceable, beautifully nickle-plated brace. Equipped with Barber chuck with malleable alligator jaws and a sturdy semi-boxed ratchet. Mahogany stained hardwood handle with inserted metal rings. Sweep, 10 inches. Shipping weight, 4 lbs.

No. E3679. List, \$1.03. YOUR PRICE \$1.03



RATCHET SCREW DRIVERS



Particularly adapted to radio, electrical, and other light work where small screws are used. Ratchets either to right, left or sets solid by turning shifter nut 1/2 in. dia. shaft.

No. E3685.	4-inch blade.	63c
List Price, 85c.	YOUR PRICE	
No. E3686.	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, 3/8, 1/2, 5/8 and 3/4 in.

No. E4200. List, \$1.00. YOUR PRICE 47c

Non-Skid Screwdriver



Small, shock-proof screwdriver with ribbed points.

No. E1567.	1 1/4-inch blade.	9c
NET		
No. E1568.	2-inch blade.	10c
NET		
No. E1569.	3-inch blade.	12c
NET		

RADIO REAMER



Enlarges holes to desired size. Works well with bakelite or hard rubber. Wt., 6 oz.

No. E1566. List, \$1.00. YOUR PRICE 17c

STEELTWIST DRILLS



No. E3902.	4 Drills 1/4 to 3/8	15c
NET		
No. E3903.	9 Drills 1/8 to 3/4	29c
NET		
No. E3904.	12 Drills 1/16 to 1"	85c
NET		

COOLKUTTER TOOL GRINDER

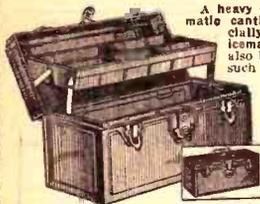


Efficient, inexpensive tool grinder. Grey iron case. Adjustable iron crank handle and clamp screw. All gears and steel plating are machine cut, enclosed dust proof case. Finished in green lacquer. Convenient name plate, nickel trimmings. High quality grinding wheels.

No. E8980.	4" x 1 1/2" wheel size.	98c
NET		
No. E8981.	5" x 1 1/2" wheel size.	\$1.32
NET		

SERVICEMENS' 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 8 1/2 x 6 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 rosin 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**

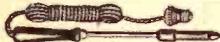
No. E986. Extra % in tip for above. Weight, 0 oz.

YOUR PRICE **45c**

No. E987. Handy 50 watt iron for light, radio and telephone work. Chisel point tip 3/16 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 covered cord, and plug. 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 tines, 0 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 rolling, slipping and scratching, and aids in eliminating vibration.

No. E6760. YOUR SPECIAL PRICE **28c**

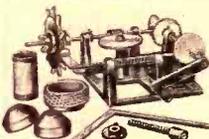
Screen Grid Connector Cap

A spring clip for the terminals of screen grid tubes.

No. E2266. PRICE, EACH **2c**
Dozen Lots **14c**



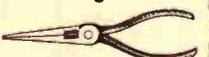
MORRIS COIL WINDER



The Morris improved universal coil winding machine will wind Honey Comb, Spider Web, Solenoids, etc., in different widths a n d 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 handle nose 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 the 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 8 ft. flexible cord. A real value.

No. E6620. YOUR PRICE **68c**

No. E6619. With Switch. YOUR PRICE **\$1.12**

SCREW DRIVER



A highly serviceable screw driver, well constructed. Has 5" blade of tempered steel. Sturdy, shock-proof, rubber handle. Wt. 8 oz. Priced very low.

No. E1003. YOUR PRICE **7c**

PANEL CUTTER

Conveniently a n d rapidly cuts circular holes in panels. Adjustable 1/4 to 6 in. Shank diam. 3/16 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, 75c. YOUR PRICE **38c**

Screw Assortments



A machine screw assortment prepared to meet the needs of the service man and builder. Includes a total of 85-8/32 screws ranging in size from 3/8" to 1".

No. 1 assortment, 85 round head screws.

No. E2390. YOUR PRICE **24c**

No. 2 assortment, flat head screws.

No. E2391. YOUR PRICE **24c**

Soldering Lugs



Tin coated. Easy soldering.

No. E2351. Style 1. NET. PER
No. E2352. Style 2. PER
No. E2353. Style 3. BOX of
No. E2354. Style 4. PER
No. E2355. Style 5. **18c**

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. annealer 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. 8-32. 20c
E2381. 10-32. 20c
Per 100.

Flat Washers

200 assorted washers of metal and fiber. Handy for all uses.

No. E2382. **25c**
Per Box

MACHINE SCREWS FOR SERVICEMEN

	Round Head	Oval Head
Standard thread, good quality. Buy in gross lot, and save money.		
1 Gross in Each Box		
Length		
1/2"	50.20	42.65
3/8"	42.65	35.10
1/4"	35.10	27.55
1/8"	27.55	20.00
1/16"	20.00	12.45
1/32"	12.45	4.90
1/64"	4.90	2.35
1/128"	2.35	0.80
1/256"	0.80	0.25
1/512"	0.25	0.00
1/1024"	0.00	0.00
1/2048"	0.00	0.00
1/4096"	0.00	0.00
1/8192"	0.00	0.00
1/16384"	0.00	0.00
1/32768"	0.00	0.00
1/65536"	0.00	0.00
1/131072"	0.00	0.00
1/262144"	0.00	0.00
1/524288"	0.00	0.00
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1/2097152"	0.00	0.00
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SERVICEMEN'S AND SETBUILDERS' SUPPLIES

SERVICEMEN'S POCKET FLASHLIGHT



A necessary service tool. Lights the dark corners inside cabinets and closets. 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. E2321. Complete with cell and bulb.

YOUR PRICE **33c**
 No. E2322. Extra cell. **10c**
NET EACH

RMA Color Code Resistor Chart



Indicates exact resistance of any R. M. A. resistor color code combination quickly, clearly and accurately. Reversely, tells color code combination for any resistance. Durable celluloid. Conveniently carried.

No. E2330 **37c**
YOUR PRICE

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 **40c**
NET PER SET

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 **25c**
YOUR PRICE



WINDOW LEAD-IN

Fits between sash and sill. Fahenstock connector on each end. 7 oz.

No. E2911 **6c**
 10 in. **2c**
NET EACH

No. E2910 **4c**
 12 in. **2c**
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 **13c**
NET EACH

Transmitting Insulator

A high grade strain insulator. Rust-proof with galvanized eyelets. Prevents shorts by shedding water and snow. 18 in. long. Shpg. wt., 2 1/2 lbs.

No. E5484 **24c**
NET EACH

Fahenstock Connectors

For connecting wires or as binding posts. Wires held firmly in spring strips. 4 oz.

No. E3270 **11c**
 Single. **2c**
NET PER DOZ.

No. E3271 **28c**
 Double. **2c**
NET PER DOZ.

Insulated Staples

Saddle type insulated staples. Sturdy, durable, and very useful. Packed 100 to the box. 4 oz.

No. E2931 **11c**
 Per 1000 (10 Boxes), **95c**
Per Box (100)

I C A Short-O-Tester



A circuit and continuity tester of great value to the serviceman. Contains 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 **\$1.05**
YOUR PRICE

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 **32c**
 Knob. Type. **27c**
List 55c. NET

No. E1642 **27c**
 Less Knob. **27c**
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 **88c**
List \$1.50. YOUR PRICE

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. Shpg. wt., 6 oz.

No. E1643 **35c**
 Phone tip terminals. **35c**
No. E1644 **35c**
 Spade terminals. **35c**
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 **35c**
 Spade tip terminals. **35c**
No. E1645 **35c**
 Phone tip terminals. **35c**
YOUR PRICE. EACH

HEAVY DUTY LAB. MODEL

Needle point leads. Over-sized insulated handles. Fitted with clench to take a regular phonograph needle. No. 16 wire, heavy insulation for heavy duty radio, electrical and automatic work. Shpg. wt., 8 oz.

No. E1647 **48c**
 With phone tips. **48c**
No. E1648 **48c**
 With spade tips. **48c**
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. E1618 **48c**
YOUR PRICE

No. E1618 **48c**
 Crosley attachment. **48c**
No. E1616 **15c**
 Majestic attachment. **15c**
EACH

GROUND CLAMPS

Mueller Clamp
 Durable and rigid because of channeled construction. Case hardened screw. Cadmium plated. 5 oz.

No. E5363 **5c**
 Lots of 100, \$4.00. **5c**
NET EACH

STRAP CLAMP
 Easily applied to any pipe or rod. Grips tightly. 3 oz.

No. E2912 **2 1/2c**
 Per 100, \$1.95. **2 1/2c**
NET EACH

KNOCK-OUT Ground Clamp
 An efficient and easily attached clamp which improves reception. 3 oz.

No. E2518 **5c**
 Per 100, \$4.65. **5c**
NET EACH

PORCELAIN NAIL IT KNOBS
 Insulated nail knob. Green center. Extra heavy unbreakable cap. Shpg. wt., per doz. 2 1/2 lbs.

No. E4790 **17c**
YOUR PRICE

No. E2556 **17c**
PER DOZ.

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 **100** **10c**
Per 1000 **10c**

E7510 3 in. 2 1/2c
E7511 6 in. 2c
E7512 4 in. 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 repairmen for trying different length aeriats. 4 oz.

No. E5447 **9c**
 Per Doz., **95c**. **9c**
NET EACH

STRAIN INSULATOR

For insulating long aeriats or rubber insulator with strain lead. Extra strong. 8 oz. each.

No. E5458 **2c**
 Per Doz., **21c**. **2c**
EACH

LEAD-IN-WIRE Rubber and Braided Weatherproof

High grade tinned copper wire, rubber covered with weather proof braid.

No. Feet **NET**
No. E2556 25 50 **\$0.35**
No. E2557 50 100 **68**
No. E2558 100 200 **1.35**
No. E2559 200 400 **2.65**

SHIELDED WIRE

A high grade rubber covered lead-in wire. No. 18 stranded. Rubber insulator with shielding of tin copper braid.

No. Feet **NET**
No. E2585 50 50 **\$0.47**
No. E2586 100 100 **89**
No. E2587 1000 1000 **8.90**

AERIAL INSULATORS PORCELAIN

Standard type. Insulators. Very strong. 8 oz.

No. E5927 **5c**
 4 in. **5c**
NET EACH

No. E5926 **2c**
 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**. **3 1/2c**
EACH

WALL INSULATOR

For supporting wire-line or instruments. Porcelain construction. 1 1/2 in. long. 1 1/2 in. high. Very strong and durable. May be used outside for supporting lead-in or ground wires. Wt., 6 oz.

No. E4785 **9c**
 Per Doz., **\$1.05**. **9c**
NET EACH

STAND-OFF INSULATOR

Made of porcelain. 4 in. long. For finest antenna installations. Shipping weight, 10 oz.

No. E4784 **8c**
 Per Doz., **95c**. **8c**
NET EACH

AERIAL AND GROUND EQUIPMENT

IDEAL BALL AERIAL

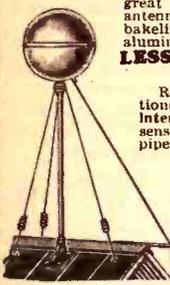
An efficient antenna for all radio sets. A great improvement over the wired type of antenna. 10 in. weather proof ball with bakelite insulator and condenser. Made of aluminum and highly polished.
LESS STATIC—MORE SELECTIVE MULTI-DIRECTIONAL

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. E8141. 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. E8142. **\$1.78**
 YOUR PRICE



BELDEN AERIAL CLAMPS

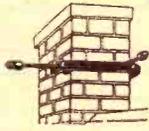


These modern weatherproof aerial clamps support antenna rigidly. Rust-proof and sturdy. Easily installed and easily removed. No nails required. No holes to damage roofs or woodwork. Can be installed on window sills, around gutters and eaves, on apartment house parapets and around chimneys. Simply set clamp and tighten. Perfect installation is assured. Offered at an amazingly reduced price.



PERMANENT-RIGID

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



\$2.50 Value
 NO. E8040
SPECIAL
 Net **38c**
 Each

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

Compact filter type aerial eliminator. Measures only 5x2 1/2 x 1 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 in. With ground clamp. 25 ft. connecting wire and two solderless plugs. Sbps. wt., 2 lbs.
 No. E1640. **\$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. E1613. 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.
 No. E1473.
 NET, EACH



38c

BUD AERIAL FILTER

An ingenious, highly efficient aerial device. Absorbs and thus destroys signals of interfering stations, increasing set selectivity and sensitivity. Every set owner will want one.
 No. E1605.
 List, \$1.50.
 NET



78c

WIZARD AERIAL

A self-contained, ingeniously devised aerial. Quickly installed on midgets, 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. E1080.
 List, \$3.00.
 YOUR PRICE, **\$1.35**

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.
 List, \$1.00.
 YOUR PRICE



44c

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.
 List, 85c.
 YOUR PRICE..... **35c**



APPROVED ARRESTER

An efficient new air-rap type arrester of finest porcelain construction. An extremely popular item and a fast seller. A real 100 Lots, \$6.25.
 No. E2909.
 NET, EACH..... **7c**



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. E8237. List, \$2.00.
 YOUR PRICE..... **98c**



AERIAL MAST FITTINGS

Fits flat or pitch roof. Pulley and base made of iron.
 FOR 1/2 IN. PIPE
 Easy mounted. Sturdy construction. Built to last. Wt., 5 lbs.
 No. E9330.
 YOUR PRICE **53c**



ICAFILTERED AERIAL

New type aerial wire. Banneled 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. E908.
 List, \$1.00.
 NET..... **21c**



Bud Arrester

Excellent protection against lightning hazard.
UNDERWRITER APPROVED
 Improves reception by rejecting static charges. Sturdy, compact. Approved by Underwriters.
 No. E1603.
 YOUR PRICE..... **24c**



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—no aerial eliminator. Combines best features of both including superior receptivity.
 No. E880.
 List, \$1.50.
 YOUR PRICE..... **68c**



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 racks 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

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

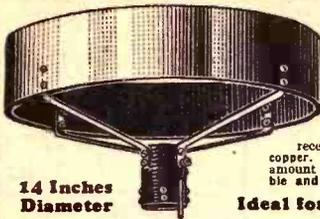
No. E8867. Same as shown, but without bracket. A 5-foot cable to be strung anywhere. Ideal for porch, attic or roof. **NET 59c**



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. Shpg. NET wt., 8 lbs. **No. E8860. EACH... 95c**

BELDENAMER AERIAL WIRE

Non-corrosive. 7 strand No. 22 copper wire of lowest dielectric properties and high conductivity. Insures unimpaired reception. Fully enameled before twisting.

No.	Length	List	NET
E1465	75 ft.	\$0.55	\$0.32
E1470	70	.70	.41
E1466	150 ft.	1.10	.66
E1467	100 ft.	7.00	4.12

No.	Length	List	NET
E1468	100 ft.	12	\$1.00 59c
E1469	100 ft.	14	.70 41c

Shielded Lead-In and Ground Wire

Stranded conductor with heavy, easy-to-strip rubber insulation and over-all braid of fine tinned

No.	Size	Length	NET
E1450	14	50 ft.	\$1.03
E1451	14	250 ft.	5.16
E1452	18	50 ft.	1.18
E1453	18	250 ft.	3.23

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.	\$0.41
E1466	14	250 ft.	1.91
E1467	18	50 ft.	1.26
E1468	18	250 ft.	1.18

Flexible Indoor Aerial Wire

Special high quality, low priced indoor aerial wire. Consists of 12 strand No. 34 tinned copper double cotton-covered wire 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 aeri-als. Best energy collector; minimizes resistance to electrical currents.



Available in sizes listed below.

7 STRAND BARE

No.	Size	Ft.	NET
E2560	22	50	14c
E2562	22	100	25c
E2563	26	50	9c
E2565	28	100	16c

7 STRAND ENAMELED

No.	Size	Ft.	NET
E2566	22	50	19c
E2568	22	100	36c
E2569	26	50	13c
E2571	26	100	24c

SOLID ENAMELED

No.	Size	Ft.	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.

SOLID CONDUCTOR

No.	Ft.	NET
E3980	25	\$0.11
E3981	50	.20
E3982	100	.38
E3983	1000	3.65

STRANDED CONDUCTOR

No.	Ft.	NET
E3985	25	\$0.10
E3986	50	.18
E3987	100	.34
E3988	1000	3.30

DX—LIFETIME AERIAL

Fully assembled cage 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. 60
Exceptionally powerful. Length 60 ft.; 8 spacer rings; contains 300 ft. of enameled copper wire. Shipping weight, 8 lbs.
No. E8869. NET... \$2.15

No. 30
Produces great volume. Length 30 ft.; 5 spacer rings; contains 150 ft. of enameled copper wire. Shipping weight, 7 lbs. Ideal for all sets.
No. E8868. NET... \$1.75

No. 20
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 Arrester

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 noise.
No. E4224. List, \$1.00. **NET... 53c**

Combination Aerial and Lead-In Wire

10 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 50 ft. .22
E4003 25 ft. .12

Silvaton 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 midset 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

The All Purpose Wire

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 36, 57, and 58 tubes. Covers tube entirely. Consists of base, barrel and cap. Barrel diam. 1 1/2". Height overall, 4 3/4". Shpg. wt. 1 lb. No. E3210. YOUR PRICE, EACH..... **14c**
10 Lots..... \$1.25

2 PIECE STANDARD

Mounted by means of screw lugs furnished. 5 1/2" high, 1 1/2" diam. Shpg. wt. 1 lb. No. E1420. **12c**
NET EACH.....
10 Lots..... \$1.05

NEW SHORT TYPE 3 PIECE

Designed for Nos. 57, 58 tube series. Double wall of aluminum. The cut-in neck for greatest efficiency. Dia. m. of barrel, 1 1/2". Height, 3 3/4". Wt., 1 lb. No. E1422. **11c**
NET EACH.....
10 Lots..... 95c

TYPE 82

Two-piece aluminum for No. 82 rectifier tube. 2 1/2" inside diam. by 5". Base fits 1 1/4" or 1 1/2" socket. No. E1422. **15c**
NET EACH.....
10 Lots..... \$1.35

NEW HAMMARLUND CHOKES

No. E3944. Style CH-8. Low loss R.F. chokes, 8 millihenries. For choke wire 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. NET. **\$3.00**

No. E3945. Style RFC-85. Inductance 85 millihenries, capacity 3 mmf. D.C. resistance 215 ohm, current carrying capacity 60 M.A. Size 1 1/4" high, 1 1/2" diam. NET. **\$1.18**

No. E3946. Style RFC-250. Inductance 250 millihenries, capacity 2 mmf. D.C. resistance 420 ohm, current carrying capacity 60 M.A. Size 1 1/2" high, 1 1/2" diam. NET. **\$1.32**

SPECIAL VALUE 3 GANG CONDENSERS

A remarkable value in quality 3 gang condensers. All of aluminum 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.G. coil kit to match is listed below. An efficient combination for any type of work. Offered at an unusual low price.

No. E6811. Large. 6 1/2" deep, 3 1/2" wide, 3 1/2" high, protruding shaft. 1 1/2" long

No. E6810. Small. 4 1/2" deep, 3 1/2" wide, 3 1/2" high, protruding shaft. 2 1/2" long

No. E6812. Bathub. 8 1/2" deep, 3 1/2" wide, 2 1/4" high, 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 3/4". 2 1/4" overall with base. No holes in can. Base perforated on bottom and side for leads. No. E1423. NET EACH..... **14c**

SHIELDING CANS

Double seamed, cadmium plated shielding cans equipped with mounting flanges. Used for housing filter blocks, choke and power transformers. Two sizes. No. E6851. 5" x 3 1/2" x 5 1/2" NET EACH..... **26c**
10 Lots..... \$2.35
No. E6852. 5" x 4 1/4" x 4" 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

Can be tapped for push-pull amplification. Can be used in first and second stages with 227, 171 or 245 tubes. Ratio 4:1. 1 1/4 in. long; outside diameter, 1 3/8 in. Core, 1 3/4 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, .0002 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 RHÉOSTATS

Carter Midget
Compact, fine quality. Metal frame; self-cooling. Only 1 1/2 inch diameter. No. E2044. Ohms 1. NET EACH. \$1.00. No. E2045. Ohms 2. NET EACH. \$1.00. No. E2046. Ohms 30. NET EACH. \$1.00.

G. I. 20 Ohm Rheostat

Made of solid bakelite. With fixed bakelite panel dial. Adjustable shaft. Chuck strip. Blunt. An unusual bargain. No. E5546. NET..... **24c**

BAKELITE POINTER KNOB

Knurled, tapered, black bakelite attractive 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 reading scale in contrasting white. The large tapered knob permits possible 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. 10 Ft. Length..... **\$1.47**
No. E6807. 50 Ft. Coils.....

FRICITION TAPK

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. G. COIL KIT

Screen grid coil kit consisting of 3 coils matched to condensers described above. Scientifically wound coils with Latz 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. for U. S. Signal Corps. Used for both R.F. and A.F. amplification, also CW and phone transmitting. Has a power output of 5 watts. Characteristics: Filament 5V, Plate 45-350V, Power Output, 5 watts, standard navy 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. E4150. 10 Foot Brown Parallel. NET EACH..... **19c**
No. E4149. 6 Foot Black Twisted. NET EACH..... **19c**

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.T. tube 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 position. All controls mounted on a heavy bakelite panel. Separate controls for tuning 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.

\$795

No. E9124. YOUR SPECIAL PRICE

SIGNAL CORPS INTERPHONE SETS

Here are offered parts necessary for installing 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.



SPECIAL NET EACH

94c

No. E9055.

Navy Communicating Microphone and Headset

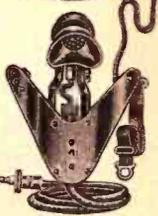
A seasonal value in U. S. Navy equipment. Utah type headphones with rubber cushion caps. Extremely sensitive. Easy to adjust. Mouthpiece and sensitive single button microphone are mounted on an adjustable metal plate, for strapping conveniently to the chest. Equipped with 25 feet of heavy duty cable 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 **\$2.85** bargain.

No. E8900. SPECIAL NET PRICE



Master Voltage Control

Standard type voltage control for A.C. sets. Well constructed. Very efficient. Safeguard your set against burnouts.

No. E2335. List, \$2.00. 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. E0077. 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 (4 "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 1/2 lb. spools. Especially suitable for winding low-loss coils.

1/2 POUND SPOOLS

ENAMELED		DOUBLE COTTON		DOUBLE SILK	
No.	Size NET	No.	Size NET	No.	Size NET
E2475	18 \$0.20	E2466	16 \$0.24	E2489	18 \$0.49
E2476	18 .21	E2467	18 .27	E2490	20 .65
E2477	20 .22	E2468	20 .30	E2491	22 .76
E2478	22 .24	E2469	22 .34	E2492	24 .86
E2479	24 .25	E2470	24 .38	E2493	26 .90
E2480	26 .28	E2471	26 .50	E2494	28 1.11
E2481	28 .29	E2472	28 .52	E2495	30 1.55
E2482	30 .36	E2473	30 .79	E2496	32 1.83
E2483	32 .42	E2474	32 .90	E2497	34 2.60
E2484	34 .44	E2483	34 .91	E2498	36 3.79
E2484	36 .67	E2484	36 .95		

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. **28c**

No. E5439. 10 foot 3 conductor. Lugs both ends. NET, EACH. **45c**

SHIELDED WEATHERPROOF

Rubber covered 3-conductor shielded cable with terminals for outside public address use. Waterproof and weatherproof. Metal braided shield over conductors and an outside jacket of rubber.

No. E3202. 12 foot. NET. **\$3.80**

No. E3202. 12 foot. NET. **\$2.12**

No. E3203. 25 foot. List, \$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. **4c**

50 FOOT COIL. **\$1.76**

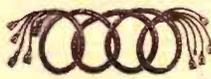
No. E1498. Diam. 3/16 in. NET, PER FOOT. **6c**

50 FOOT COIL. **\$2.65**

No. E1499. Diam. 1/4 in. NET, PER FOOT. **9c**

30 FOOT COIL. **\$3.82**

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

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 B.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 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 PUSH-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	
E2529	Yellow	
E2530	Red	
E2531	Green	14c
E2532	Blue	

100 FOOT ROLLS

No.	Color	PER ROLL
E2590	Black	
E2591	Yellow	
E2592	Red	
E2593	Green	48c
E2934	Blue	

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.

25 FOOT ROLLS

No.	Color	NET PER ROLL
E2435	Black	
E2436	Yellow	
E2437	Red	
E2438	Green	16c
E2439	Blue	

100 FOOT ROLLS

No.	Color	NET PER ROLL
E2440	Black	
E2441	Yellow	
E2442	Red	
E2443	Green	58c
E2444	Blue	

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**

COLORED RUBBER HOOKUP WIRE

Stranded tinned copper wire. Rubber insulation. Available in five colors to facilitate set wiring. Flexible. Easily prepared for connection.

25 FOOT COILS

No.	Color	NET PER ROLL
E2542	Red	
E2543	Green	
E2544	Blue	
E2545	Black	16c
E2546	White	

Can be supplied in 100 and 1000 foot coils. Write for price.

Fine Cambric Tubing

Impregnated with varnish. YOUR PRICE Per 30" Lxth. E5330 Yellow **5c** E5331 Red E5332 Red E5333 Green

LITZ WIRE

Finest quality Litz wire for loops and higher grade R.F. and superhet coils. 10 strand No. 38 enamelled copper wire. Double silk covered.



No. E2341. 100 ft. spools. NET, EACH. **20c**

No. E6843. 1 lb. spool. Containing approx. 1100 ft. NET, PER DOZ. **\$2.25**

Bakelite Speaker Extension Plug

Bakelite speaker extension plug for operating headphones or loud speaker at distance from receiver.

No. E4218. NET, EACH. **8c**

NET, PER DOZ. **85c**

BUS BAR WIRE



Hard drawn copper wire. No. 14 gauge. 2 ft. lengths. No. E2536. Square, 10 lengths. **13c**

YOUR PRICE **13c**

No. E2537. Round, 10 lengths. **13c**

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 paraffine. Barberpole color.

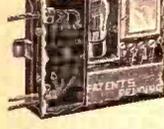
No. E1535. 25 foot Coils. NET, EACH. **5c**

No. E1536. 1/2 lb. Coils. NET. **8c**

No. E1537. 1/4 lb. Coils. NET. **14c**

AUTOMOBILE RADIO EQUIPMENT

THE UTAH AUTO "B" UNIT



A new, highly efficient, extremely compact unit for Automobile sets. Operates from 6 Volt. Auto battery, changing current to B supply up to 150 volts. Operates noiselessly, giving an even flow of current. Intermediate voltage easily adjusted. 150 volts. 35 M.A. Size: 6 1/2 high, 7 1/2 long, 2 3/4 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 5/8" x 8" x 7 3/4" long. No hum, no rotary parts, equipped with automatic relay, no adjustments necessary after installation. The new "Automatic Load Relay" circuit insures long life of the mercury vapor rectifier tube as well as the interrupter. Shipped "knocked down," 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 Auto Battery transforming 6 or 12 volts D.C. into "B" current up to 150 volts. Measures 12x6x5 1/2 inches. Furnished complete with voltage divider. Shipping weight, 22 lbs. **No. E8285. List. \$22.00**
YOUR PRICE \$1882



Auto Radio Suppressors

For suppressing noises in Auto radio installations. 25000 ohm resistor types. **No. E2322. Distributor type. List. 40c.**
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 6 plug. 1 distributor type. NET. \$1.48
No. E2347. 8 cylinder car 8 plug. 1 distributor type. NET. \$1.88

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 street car. 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. E8180. 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 constantly, 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**



AUTO "B" BATTERY ELIMINATOR

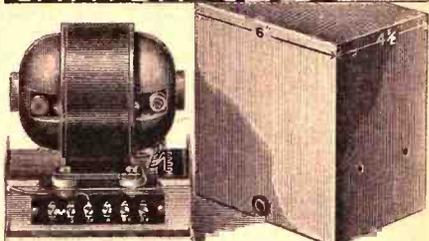
The Carter Genemotor is one of the most efficient constant type auto "B" eliminators on the market. This unit develops surprising volume and fine clear-cut reception, bringing in more stations with less interference. Provides a constant flow of "B" power at all times, at low battery drain and great output. 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 require adjustment. Straps provided for mounting into 1 1/2" x 8" x 8 3/4". **No. E8155. 4680A. 150 Volts "A" battery drain 2.2 amp. 30 M.A.**

Note: We can supply immediately, all special Carter Genemotors for any car or motor system. Write us for information and prices. Special types available for portable P.A. systems.

CARTER GENEMOTOR



Exposed View

In Mounting Case

RETAIL EACH \$21.00

No. E8156. 4635A. 135 Volts. "A" battery drain 1.7 amp. 30 M.A. 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 150 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 Elkones 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	Type	Elim.	Elim.	Set	Type	Elim.	Elim.
Atwater Kent 81	5	Majestic 110	6	Motorola 5-T-11	6		
Auto-Lite 82	5	Motorola 5-T-21	6	Motorola 5-T-28	6		
Bosch 9-20	5-P	Motorola 7-T-8	6	Motorola 6 tube	6		
Colonial 53	5	Motorola 6 tube	6	*Philco 3	6		
Colonial 54	5	*Philco 7	6	*Philco 7	6	3-P	
Crosley 90	4	*Philco 7	6	Philon 7	6	5-P	
*Crosley 91	4	Philon 7	6	Spartan 40	6		
*Crosley 92	4	Philon 7	6	Universal 70	6		
Delco 3010	5	Spartan 40	6				
Gibllan	2	Universal 70	6				

No.	Type	Writes	150 V.	150 V.
8460	4	30	46	
8461	5	30	40	
8462	5-1	30	40	
8463	4	25	33	
8464	3	30	27	
8465	3-1	30	27	
8466	2	27	20	
8467	2	15	18	

Retail, \$19.95.
NET EACH \$11.73
*Require Mallory "A" choke.
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., 6 lbs. **No. E8870. List. \$1.95.**
YOUR PRICE \$113

AU-TENNA-AUTO AERIAL

A highly effective auto aerial with exceptional selectivity and volume. Absolutely grounded, proof, insulated against frame. Sedan type—4 colors. **No. E8120. Light Grey. \$1.20. Dark Grey. \$1.22. Light Brown. \$1.24. Dark Brown. \$1.26.**
NET EACH \$147

WELBAR 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. A.C. \$88. No. E8996. B.C. \$88.**
NET EACH \$88c

AUTO GENERATOR SILENCER

Essential to efficient operation of auto radio sets. Eliminates interference due to weak plug. **No. E2342. 1 mfd. NET \$48c**
No. E2343. 5 mfd. NET \$42c

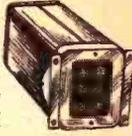
GENUINE PHILCO REPLACEMENT PARTS



All parts listed on this page are genuine Philco products, exactly as used in Philco receivers. Owing to the great number of Philco Radio Sets in use at the present time, there is a huge demand for these products. In order to obtain the famous, clear Philco balanced performance, make all necessary replacements on Philco receivers with none other than Philco parts.



ALLIED has made special efforts to make an accurate and dependable listing of genuine Philco replacement parts on this page, for the serviceman. If any other Philco parts are required, send your order in with a deposit, specifying the part required and the set model number; or a free Philco Parts Catalog will be mailed on request.



Philco Radio Model	Volume Control Part No.	Net Each
11	P4093	82c
15	P6694	59c
20	P4094	73c
21	P4094	73c
30	P4093	82c
35-35B	P8317	88c
36	P5317	88c
40	P4096	41c
41	P4141	88c
42	P4141	88c
46	P1111	88c
47	P6499	77c
50	P3282	73c
51	P3282	73c
52	P6839	49c
55	P3528	69c
70A	P5039	88c
70B	P6015	44c
71	P4117	82c
71-221	P6499	47c
76	P3879	38c
77	P4094	73c
78	P3076	82c
80	P3076	82c
90C	P5039	88c
00D	P5724	44c
90E	P6015	44c
91	P6499	47c
91-221	P6499	47c
95	P3790	91c
96	P4093	82c
111	P4093	82c
112C	P4093	82c
112F	P4093	82c
211	P4093	82c
No. 3 Trans.	P3076	82c
No. 7 Trans.*	P6109	73c

Power Transformers		Filter Condensers	
Part No.	Net Each	Part	Net
P5785	\$2.06		
P6672	3.23		
P4534	3.53	P4236	\$2.20
P4813	3.53		
		P4067	3.23
		P4067	3.23
		P4067	3.23
		P4860	2.50
P3266	2.50	P03459	.73
P3266	2.50	P03915	.65
P3266	2.50	P03915	.65
P3516	4.12	P3815	5.44
P5117	3.53		
P4117	3.53		
P6454	2.20	P04559	.59
P6454	2.50	P04731	.24
P3879	4.12	P3870	3.67
P3868	4.12	P3870	3.67
P3271	4.12	P3246	5.82
P3400	4.12	P3401	7.35
P4938	4.12		
P5362	3.67		
P6072	2.94	P0440	.59
P6554	2.79		
P6857	2.79		
P3752	3.53	P3754	3.81
P4446	3.53	P3754	3.81
P4446	3.53	P3754	3.81
P3594	4.12	P03489	1.03
P4446	3.53	P3754	3.81
P3073	4.12	P3108	7.06

PHILCO REPLACEMENT CHOKES					
Set Model	Part No.	Net Each	Set Model	Part No.	Net Each
15	P3422	\$1.47	87	P3472	\$2.20
20	P4231	.88	90	P4819	.88
21-70-90			91 (late)	P4819	.88
(late)	P4819	.88	111	P3422	1.47
30	P3518	1.62	112		
40-77-96	P3422	.47	W/43's	P3422	1.47
65-76-95	P3422	.47	112		
86	P3269	2.20	W/47's	P5643	.88

OUTPUT—INPUT—INTER-STAGE TRANSFORMERS					
Output			Input		
Set Model	Part No.	Net Each	Set Model	Part No.	Net Each
86-87-95-95	P2706	\$1.18	86-87-30	P3242	\$1.62
76-96-77	P2706	1.18	65-95-96	P3242	1.62
20-40-111	P2706	1.18	111-112	P3537	2.06
50-51-52	P2664	.73	76-77-40	P3872	1.76
70-90	P2673	1.18	90-112-15	P2635	1.18
90-112-15	P2635	1.18	20-21	P4232	1.32
71	P2580	.73	90	P4952	1.62
91	P2585	.79	112-15	P5662	1.91
No. 3 Trans.	P2706	1.18	91	P6064	1.32
No. 7 Trans.	P2598	.73			

Speaker Cones			BC Resistors		
Philco Model	Parts No.	Net Each	Philco Model	Parts No.	Net Each
15-91	P02807	38c	21	P1230	50c
15-71-91	P02823	26c	65	P4824	26c
20-21-46	P02996	44c	70 (A)	P3125	26c
30-40-44	P0284	24c	70 (B)	P6066	24c
35-50-51	P02887	38c	76	P3865	59c
40-90-111	P02874	38c	80	P3232	94c
50-51-52	P02861	35c	87	P3399	73c
65-87-95	P02874	38c	90 (A)	P4983	32c
70	P02861	35c	90 (B)	P5365	24c
70-90	P02996	44c	511	P3088	97c
76-77-96	P02874	38c	(A) Without Automatic		
86	P2898-A	88c	(A) Volume Control.		
111	P02874	38c	(B) With Automatic		
112	P2936-A	26c	Volume Control.		

ELECTROLYTIC CONDENSERS

Philco Model	Part No.	Net Each
21	P4818	\$1.18
4-50-70	P4916	1.03
90-112-51	P4918	1.03
52-71-91	P4916	1.03
71-91	P6463	.91
71	P6457	2.50
15	P6707	.88
	P6706	.88

Tone Controls

70	P03637	\$0.18
15-91	P04787	.26
11-77-90	P03137	.32
90-112	P03137	.32

SWITCHES

20-40-85	P4095	\$0.29
70-76-77	P4095	.29
90-95-111	P4095	.29
112	P4095	.29
50-51-52	P5382	.24
No. 3 Trans.	P4705	.59
71-91	P6498	.24

TUBE SOCKETS

Part No.	Terminals	Net Each
P4955	4	5c
P4958	5	6c
P6417	6	6c

PILOT LAMPS

Part No.	Volts	Net Each
P6316	2.0 (A)	18c
P4463	2.7	8c
P4567	6.0	10c
P6600	8.3	8c

(A) Special for Battery Sets.

PHILCO KNOBS

Philco Model	Part No.	Net Each
LARGE		
511 to 111	P3580A	7c
112 to 15X	P03063	5c
3 to 7 Trans.	P03364	3c
SMALL		
511 to 111	P3579A	4c
112 to 15X	P03064	4c
SWITCH		
511 to 111	P4290A	3c
112 to 15X	P03437	3c

PHILCO RESISTOR KIT

Standard Philco resistor kit at a new low price. Consists of 25 resistors on an attractive holder. Standard R.M.A. color code chart duplicated on every kit. For use in Philco and all makes of radio receivers, as well as for experimental work.

NO. P6566A. \$3.67

YOUR PRICE.

CONDENSER TEST BOX PHILCO MODEL 903

A convenient switch box designed for use in testing by-pass condensers in all receivers by substitution method. Contains 15 condenser values which can quickly be connected by means of a multi-point switch to obtain desired capacities from .00025 mfd. to 2. mfd. Two binding posts for external leads. Mahogany box.

NO. P093. \$7.06

YOUR PRICE.

PHILCO QUALITY TUBES

Outstanding for high efficiency in performance and long life.

Philco No.	Type	NET
E285	P24	Det.-Amp. \$0.81
E282	P26	Power Pent.42
E263	P27	Det.-Amp.32
E280	P36	Det.-Amp.81
E287	P31A	Power Pent.39
E265	P34	Power Pent.57
E284	P47	Power Pent.78
E254	P71A	Power Amp.47
E267	P80	Full Wave Rect.56
E253	P12A	Power Amp.72
E275	P90	Det.-Amp.81
E276	P81	Power Amp.81
E277	P82	Det.-Amp. 1.16
E281	P36	Det.-Amp. 1.37
E282	P37	Det.-Amp.88
E283	P38	Power Pent. 1.37
E284	P39	Power Pent. 1.40
E261	P42	Power Pent. 1.40
E250	P44	Super Control Det.-Amp. 1.40
E292	P56	Det.-Amp.84
E293	P57	Det.-Amp.61
E284	P58	Super Control Det.-Amp.81
E291	P82	Full Wave Rect.64
E299	PR12B	Power Amp. 1.16
E298	PR13	Power Amp. 1.03
E297	P17	Det.-Amp. 1.11
E296	P17	Det.-Amp.73

NOTE: If 50 tubes are ordered an additional 10% is to be deducted from the above quotations.

If unable to obtain part required from listing given, send for Philco Parts Catalog. It will be mailed FREE.

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	6000
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, EACH

No. E3299. A.C. Switch for Above.

List, 75c.

YOUR PRICE

48c

24c

CARTER MIDGET RHEOSTATS AND POTENTIOMETERS



Wire Wound One piece cadmium plated steel. Non-corrosive high resistance wire used. Very compact. Positive contact, smooth operation. Dissipates 1 watt. Windings uniform and accurate. With black pointer knob.

No.	Ohms	List.
E1506	20	50c.
E1508	200	EACH.
E1509	400	
E1510	1000	
E1511	1500	

28c

HIGH RESISTANCE CARBON TYPE

Compact, employing new resistance material. "Resistolite." Dissipates 2 watts. Rugged, cadmium plated steel shell frame.

No.	Ohms	List Each.
E1512	2000	
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	

38c

FROST VOLUME AND TONE CONTROLS



Series No. 20. Bugged, moderately priced, wire wound volume controls. Tightly covered metal shell encloses the unit completely. Complete positive contact at all times, due to double wiping contact construction. Smooth operation.

Less Switch	Resis. with A.C. Switch	With Switch.
E3553	200	E3561
E3554	400	E3562
E3555	1000	E3563
E3556	2000	E3564
E3557	3000	E3565
E3558	5000	E3566
E3559	10000	E3567
E3560	25000	E3568

Less Switch. With Switch. NET EACH. NET EACH.

50c 70c

No. E3591. DUAL 10.000-50.000 ohms—1" shaft. No. E3592. DUAL as above. 2" shaft. YOUR PRICE, EACH. \$1.25

SERIES NO. 70

Composition element, bakelite case with metal dust proof back cover, furnished either with or without a slip contact. Has all wiping contact between the movable member and the hard smooth composition resistance element.

No.	Resis. with A.C. Switch	No.	Resis. with A.C. Switch
E3569	1000	E3580	1000
E3570	2000	E3581	2000
E3571	3000	E3582	3000
E3572	5000	E3583	5000
E3573	10000	E3584	10000
E3574	25000	E3585	25000
E3575	50000	E3586	50000
E3576	75000	E3587	75000
E3577	100000	E3588	100000
E3578	250000	E3589	250000
E3579	500000	E3590	500000

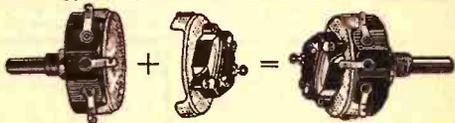
Less Switch. With Switch. NET EACH. NET EACH.

42c 62c

No. E3593. DUAL—10.000-25.000 ohms. YOUR PRICE. \$1.25

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 volume 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.	
E1851	100	180	Standard Pot.	
E1852	200	125	Standard Pot.	
E1853	300	100	Standard Pot.	
E1854	400	85	Standard Pot.	47c
E1855	500	80	Standard Pot.	
E1856	750	65	Standard Pot.	
E1857	1000	55	Standard Pot.	52c
E1858	1500	40	For ant. and Ant.	
E1859	2000	40	Standard Pot.	52c
E1860	2000	25	For untuned Ant.	52c
E1861	2000	25	For "C" bias	52c
E1862	3000	30	Standard Pot.	55c
E1863	3000	20	For ant. and "C" bias	55c
E1864	3000	20	For "C" bias	55c
E1865	5000	25	Standard Pot.	52c
E1866	5000	17	For ant. and "C" bias	55c
E1867	5000	17	For "C" bias control	55c
E1868	7500	20	Standard Pot.	52c
E1869	7500	14	For ant. and "C" bias	55c
E1870	7500	14	For "C" bias	55c
E1871	10000	17	Standard Pot.	
E1872	10000	12	For ant. or R.F. coil	
E1873	10000	12	For ant. and "C" bias	60c
E1874	10000	12	For S.G. voltage	
E1875	10000	12	For S.G. voltage	
E1876	15000	14	Standard Pot.	55c
E1877	15000	11	For ant. and "C" bias	60c
E1878	15000	11	For S.G. voltage	
E1879	20000	12	Standard Pot.	
E1880	20000	10	For "C" bias	64c
E1881	25000	11	Standard Pot.	64c
E1882	30000	11	Standard Pot.	69c
E1883	40000	10	Standard Pot.	69c
E1884	50000	9	Standard Pot.	78c

No. E1885. Switch Type Cover Plate. YOUR PRICE

29c

CLAROSTAT TONE CONTROLS TYPE TC-1 PORTABLE



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. E1886. List, \$2.35. YOUR PRICE

TC-4 For Panel Mounting

Constructed for mounting on any panel using 3/8" or 1/2" holes. All-steel, 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

88c



AMPERITE AUTOMATIC SELF ADJUSTING RHEOSTAT

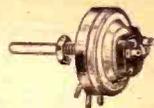
Permits electric operation of vacuum tube filaments. STANDARD FOR SET BUILDERS. No. E087. 4A-25 amp. For 301A, 300A, and 340 tubes. No. E081. 112-5 amp. For 112 and 171 tubes. No. E082. 622-125 amp. For 222 tubes. No. E083. 4 v-199-.06 amp. For 299 tubes. No. E084. 6 v-199-.06 amp. For 299 tubes. No. E085. 120-125 amp. For 220 and 201B tubes. No. E086. 3A-.75 amp. For 75 amp. tubes. No. E087. 4A-.75 amp. For 150 tube. No. E088. 6A-. For new 230 tubes. No. E1089. 631. For new 231 tubes. No. E1090. 6-33. For new 233 tubes. List, \$1.10. YOUR PRICE, EACH

64c

Volume Centralab Controls



Dual Control



Junior with A.C. Switch

Here is the latest replacement listing of Centralab volume controls, for the convenience of the serviceman. The listing is as accurate as a careful search of available records can make it. The replacement control ordered will do the work of the original with the greatest efficiency, for it will be a duplicate in mechanical and resistance specifications. If the volume control required is not listed, send your order to us with a deposit, giving the name of the set manufacturer and the model number. The proper unit will then be manufactured and shipped to you at the lowest prevailing price. **ALLIED IS ANXIOUS TO SERVE YOU.**

Manufacturer and Model	Cat. No.	YOUR PRICE	Manufacturer and Model	Cat. No.	YOUR PRICE	Manufacturer and Model	Cat. No.	YOUR PRICE
A. C. Dayton			Crosley Radio			General Motors Radio (Day-Fan)		
XL-60, SL 61, XL-70	E2455	\$0.73	AC-7, AC-7C	E2453	\$0.73	5033, 5066, 5065, 6 tube 5057		
XL-65, 65, 66	E2457	.73	408, 418, 428 (Early Model)			8 DC, 32 DC, 110-6-M.G.	E2186	\$0.73
Navigator	E2209	.73	Special			8 AC, 5077, 5080	E2177	.73
A. C. Dayton	E2175	.73	"Buddy and Chum"	E4853	1.71	A5005-A5020	E2178	.73
American Bosch Corp.			605, 615, 625	E4856	1.47	72	E2179	.73
107, 166, 176, 80DC, 96AC	E2171	.73	21, 22, Batt	E2172	1.47	5005, 5004, 5010, 5081, 48		
80-Auto Receiver "Special"	E4848	1.47	28, 30-S, 31-S, 33-S, 34-S	E4855	1.47	Special	E4819	1.47
48 and 49 "Special"	E4869	1.96	Special	E4857	1.47	Delco 3002 Auto "Special"	E4849	1.47
55	E4865	1.47	77, 78DC, 400, 410, 420	E4772	.73	150, 160	E2165	1.47
58, 62 "Special"	E4865	1.47	91, 92, "Roamio Auto"	E2179	.73		E2165	1.47
54, D. C. "Special"	E4877	1.96	Midget 48	E2188	.73	Graybar Electric		
5A, 5B, 7A, 7B, 133	E2425	.98	Johnny Smoker, Super Buddy			700, 770, 960	E2184	.73
60, 61, 64 "Special"	E4827	1.47	122	E2176	.73	818	E2182	1.47
20, 31, 32 "Special"	E2401	.98	126, 55, Long Shaft, "Special"	E4859	1.47	Graybarette	E2184	.73
73, 74	E2410	.98	52, 29, Long Shaft, "Special"	E4857	1.47	8 Midget	E2184	.73
Arden, Inc. F. A. D. (Fada)			408, 418, 428	E2178	.73	A. H. Grebe & Co., Inc.		
76, 480A, SF50, 80-A, CA-475	E2171	.73	55, Shorr Shaft	E2179	.73	428, Synchrophase A.C. 6:		
30, 30Z, 31, 31Z, 10, 10Z, 11, 11Z	D. E. Special Long Shaft	E4847	56, Short Shaft	E2178	.73	Synchrophase A.C. 7:	E2170	.73
50, 70, 71, 72, 51 Long Shaft	E4851	1.47	77-1	E2188	.73	AH-1	E2176	.73
10, 16Z, 17, 32, 32Z, 18DC	Special Shaft	E4854	120	E2424	.98	Early Synchrophase SR4 AC	E2166	1.47
35C, 35B, 40AC, Original	Control	E4872	15, 50M, 7, Special	E4858	1.47	SR4 DC	E2454	.98
20, 5Z, 15M, 15MZ, Special	Shaft	E4887	84	E2180	.73	HS4-1, 2, 3, 4	E2419	.98
20, 20Z, Special Shaft	E4890	1.47	124, 125 Midget Super Sw.	E2419	.98	Grigsby-Grunow (Majestic)		
75, 77, 35, 35Z, Special Shaft	E4866	1.47	605, 615, 625	E4856	1.47	16, 60, 70-B	E2175	.73
43, 62, KF, FG	E4878	1.47	Eurl Radio			180-181 "Special"	E2175	.73
KA-41, 42, 44, 46, 47, 81, 84, 86DC	E2481	.98	21DC, 24, 31, 33DC	E2181	.73	Series 50, Midget Super	E4875	.96
KW-48, 48, Sw. Type	E2415	.73	21C, 22 AC	E4812	1.47	90, 91, 92, 321 "Special"	E4886	1.47
K, U, 45, 51, 53, 51, Sw. Type	E2189	.98	315, 371, 31, 32-S, 33	E2184	.47	30, 31, 131, 132, 233 "Special"	E2172	.73
122-KE	E2186	.73	31 and 32 AC, 41	E2172	.73	100 Series 100B "Special"	E4881	1.96
Atwater Kent			Edison, Inc. Thomas A & Spiltdorf			130 Series "Special"	E2168	1.47
33 Series Filament, 34	E2180	.73	P.A.D. No. 4, P.A.D. 41	E4818	1.47	130 Series "Special"	E4815	1.96
61, 62Z, 72, 66, H1, H1Z	E2187	1.96	R-201, C2, C3, R1, R2	E4810	1.47	130A, 230C	E2168	.73
67, 67C, Batt. Set 222 tubes	E4819	1.96	M5, R11, M-6, Special	E4810	1.47	Midget Series 20	E2206	.73
82Q	E4852	.73	Controls	E4818	1.47	60 Series 160	E2183	.73
"F" Series, L-2, P or 75 Q-2	E4874	1.96	C1, R4, R5, R6, R7, Later	E4871	1.96	120 Series "Special"	E2168	1.47
"F" Series, "Special"	E2164	1.96	ES, 62	E4818	1.47	25, "Special"	E4837	1.47
L-1	E2183	.73	250	E2173	.73	15, 150 "Special", 15B	E4823	.98
82D, 84D, 89, 84Q, Batt. 89	E2414	.98	R6 and R7, Early Model	E4846	1.71	110 Auto, "Special"	E4860	1.47
89F			Phono			Gulbransen		
Bremer-Tully			R4, R5, C4, Early Model	E4871	1.96	C-WG24, C and CG, 9-In Line (New) "Special"	E4870	1.96
8, 6, 40	E2180	.73	Abbey "Special"	E4892	1.47	9-In-Line (Old) "Special"	E4875	1.47
7-70, 7-71 "Special"	E4867	1.47	Abbey Jr. "Special"	E4891	1.47	82 Arcadia	E2164	.73
820-A, 821-A	E2412	.98	E-175	E2175	.73	50, 70 Series	E2188	.73
81, 82, 14, 21, 31, 81A	E2207	.98	R6 and R7, Later Model	E4871	1.96	50, 70 Series, 80-8 Tube	E4828	.73
8-20A	E2203	.98	Freed-Eisemann Radio			80-8 Tube (Old) "Special"	E4828	.73
85, 36	E2418	.98	FR30N and 30-32, 40N and 44N, NR8 and NR9A, C			80-8 Tube (New) "Special"	E4816	.96
8-1, 8-2	E2183	.73	50, NR90-DC, NR90AC, NR85, 470	E2170	.73	40, "Special"	E4861	1.47
7-A, 7-B, W 81	E2171	.73	NR5, NR6, NR7, NR8 and 8A, NR9 and 8A, NR10, NR12, FE15, FE18, NR120, 86 and 60A, NR17, NR33, NR-78DC	E4831	.73	40A, "Special"	E4880	1.47
Browning-Drake			NR129, NR129A, NR	E2172	.73	10, 13 Series, "Special"	E4822	.73
34, 36, 38, 60	E2175	.73	NR85, 470	E2170	.73	23 Series, "Special"	E4876	1.96
MR-30	E2178	.73	FR30N and 30-32, 40N and 44N, NR8 and NR9A, C			90 Series, "Special"	E4876	1.96
70 and 71	E2180	.98	50, NR90-DC, NR90AC, NR85, 470	E2170	.73	Champion, Jr.	E2185	.73
70 and 71	E2180	.98	NR5, NR6, NR7, NR8 and 8A, NR9 and 8A, NR10, NR12, FE15, FE18, NR120, 86 and 60A, NR17, NR33, NR-78DC	E4831	.73	Hammarlund-Roberts		
Brunswick-Balke-Collender			NR129, NR129A, NR	E2172	.73	HI-Q20JR	E2175	.73
514, 521, 521, 581, 582	E2417	.98	NR85, 470	E2170	.73	HI-Q20 Master	E2179	.73
14, 21, 31	E2207	.98	FR30N and 30-32, 40N and 44N, NR8 and NR9A, C			HI-Q30, HI-Q31	E2186	.73
8-32, 32	E2411	.98	50, NR90-DC, NR90AC, NR85, 470	E2170	.73	Haward Radio		
10 Midget "Special"	E4835	1.96	NR5, NR6, NR7, NR8 and 8A, NR9 and 8A, NR10, NR12, FE15, FE18, NR120, 86 and 60A, NR17, NR33, NR-78DC	E4831	.73	135, 395, 445, 495 "Special"	E4879	1.96
11, 12, 16, 33-C Bias	E2206	.98	NR129, NR129A, NR	E2172	.73	3 Green Diamond	E4893	1.47
11, 12, 16-Tone Control	E4827	.98	NR85, 470	E2170	.73	S.G.A. S.G.	E2169	.73
14-Pentode Pot.	E2180	.73	NR129, NR129A, NR	E2172	.73	35 AC	E2200	.73
Colonial Radio			NR129, NR129A, NR	E2172	.73	S.G.B., Midget H.O.	E2402	.98
31DC	E4832	.73	NR85, 470	E2170	.73	S.G.B., Midget O.H., A.V.H.	E4826	.73
80-32AC, 33AC "Special"	E4813	1.96	FR30N and 30-32, 40N and 44N, NR8 and NR9A, C			A.V.H.	E2414	.98
40, 43, 44, 47, 47E, 48, 48E	E4824	.73	50, NR90-DC, NR90AC, NR85, 470	E2170	.73	Kellogg Switchboard & Supply		
50 "Special"	E4835	.98	NR5, NR6, NR7, NR8 and 8A, NR9 and 8A, NR10, NR12, FE15, FE18, NR120, 86 and 60A, NR17, NR33, NR-78DC	E4831	.73	0 tube 507, 520 Series	E2180	.73
Columbia Radio (Exact Duplicate)			NR129, NR129A, NR	E2172	.73	520 Series, 533, 534, 535	E2178	.73
Screen Grid	E4888	1.47	NR85, 470	E2170	.73	536, 5	E2178	.73
SG-5, SG-7	E2171	.73	FR30N and 30-32, 40N and 44N, NR8 and NR9A, C			834, 35, 21, 28	E2188	.73
8Q-9	E2175	.73	50, NR90-DC, NR90AC, NR85, 470	E2170	.73	Screen Grid Receiver	E2175	.73
Crosley Radio			NR129, NR129A, NR	E2172	.73	Collin B. Kennedy		
60-S, 61-S, 62-S, 75	E2178	.73	NR85, 470	E2170	.73	KR 15 and 16	E2176	.73
61, 602 Handbox, 608 Genbox, 810, 609 Genbox and Gemchest, 704 Jewel Box, 715-A Jewel Box, 714-B Jewel Box, 705 Showbox, 706 Showbox, "Special"	E4842	.98	FR30N and 30-32, 40N and 44N, NR8 and NR9A, C			"Royal" 60, "Royal" 80	E2180	.73
Garod E-A			NR85, 470	E2170	.73	12 S.G., 10, 20, 20B, "Special"	E4884	1.96
711-RC3	E2182	1.47	NR129, NR129A, NR	E2172	.73	with remote control, 828	E2163	1.47
711-RC3	E2184	.73	NR85, 470	E2170	.73	24 Battery	E4834	1.08
8-22, 8-22X-S-42	E2184	.73	FR30N and 30-32, 40N and 44N, NR8 and NR9A, C			828, 826	E4825	.73
T-12	E2454	.73	50, NR90-DC, NR90AC, NR85, 470	E2170	.73	34, 30 and 32, 50-52-56	E4002	.98
General Electric			NR129, NR129A, NR	E2172	.73	42 Midget	E2189	.98
1161-1171	E2184	.73	NR85, 470	E2170	.73	(Listing Continued on Page 31)		

Centralab Junior Volume Controls



A small stock of Junior volume controls with the aid of the Centralab Volume Control guide will take care of most service work. Each control has a 1 3/4" shaft which may be cut to appropriate size. Standardized taper. Bushing 1/4 in. long.

Bakelite base diameter, 1 1/4 in. The 70 series have 2 terminals; all others, 3. If unable to determine type required, order with deposit, giving name of set and model number.

Less Switch No.	C.R.L. No.	Max. Resist. Ohms	With Switch No.
E2170	70-200	5000 ad	22001
	70-201	ad Infinitum	22002
	70-202	75000	22003
	70-203	500000	22004
	70-204	1000	22005
	70-205	10000	22006
	70-206	25000	22007
	72-100	100000	22008
	72-101	2000	22009
	72-102	25000	22010
	72-103	50000	22011
	72-104	100000	22012
	72-105	500000	22013
	72-106	500000	22014
	72-107	1000	22015
	72-108	2000	22016
	72-109	4000	22017
	72-110	5000	22018
	72-111	25000	22019
	72-112	500	22020
	72-113	10000	22021
	72-114	10000	22022
	72-115	15000	22023
	72-116	100000	22024
	72-117	50000	22025
	72-118	500	22026
	72-119	20000	22027
	72-120	200000	22028
	72-121	250000	22029
	72-122	100000	22030
	72-123	75000	22031
	72-124	15000	22032
	79-008	15000	22033

Less Switch NET EACH. **73c** With Switch NET EACH. **98c**

Centralab Twin Junior



The Centralab Twin Junior Controls consist of two resistances completely insulated from each other and from the control shaft and bushing. Diameter of case, 1 1/2". Depth, 3/4". 1 3/4" shaft.

No.	Type
E2161.	74-600—Special for 1929-30 Victor replacements. Both cases L.H. Max. 4000 ohms. C. 300 ohms.
E2164.	74-601—10,000 ohm pot. controls antenna, radiohu control "C" bias. 25,000 ohm. Max.
E2165.	74-602—10,000 ohm pot. control of antenna, an 50,000 ohm pot. for screen grid.
E2168.	74-603—Replaces wire wound control by 1830-31 Phono Midset and small receivers.

List. \$3.00. **\$1.47**
YOUR PRICE, EACH

Centralab Elf Potentiometers



The Centralab Elf Potentiometer or Radiohu for tone pickup and volume controls, where small size is important. Shaft extends 1 3/4" from case, 1 1/2" by 1/2" deep. All controls have three terminals, insulated from the shaft and bushing.

Less Switch No.	C.R.L. No.	Max. Resist. Ohms	With Switch No.
E2169	51-200	1000	3169
E2170	51-201	2000	3170
E2171	51-202	5000	3171
E2172	51-203	10000	3172
E2173	51-204	25000	3173
E2174	51-205	50000	3174
E2175	51-206	75000	3175
E2176	51-207	100000	3176
E2177	51-208	250000	3177
E2178	51-209	500000	3178
E2179	51-210	1000000	3179

Less Switch NET EACH. **44c** With Switch NET EACH. **64c**

Centralab Controls Less Knobs



Great values in genuine Centralab controls, with all the famous C.R.L. features of fine construction. Shaft and bushing fully insulated from all terminals. Single hole mounting. Very adaptable for replacements. No. E2195. 5,000 ohms. 2 tap. No. E2196. 10,000 ohms. 3 tap. No. E2197. 50,000 ohms. 2 tap.

NET EACH **28c**

C.R.L. Phono Pickup Fader



For double turntables. Blends the music from the finishing record into the music of the starting one. Has 4 terminals with tapered resistance. Bakelite case 2 1/4" x 1 1/2". Shaft and bushing 1/4" x 1/2" long. Shaft and bushing insulated from all terminals. Single hole mounting. No. E2156. List Price, \$4.00. **\$1.96**

YOUR PRICE

Centralab Volume Control Guide



The serviceman's convenient and essential reference of volume control circuits and replacement controls. 10 pages of fundamental circuits for volume controls; 3 pages of tone control circuits; 19 pages listing radio receivers with volume control circuit and correct replacement control; 6 pages on T-pad and Fader attenuation circuits; and 4 pages on multi-installations with independent

type speaker volume control. No. E2450. List. 50c. **25c**

YOUR PRICE

FREE WITH CENTRALAB CONTROL PURCHASE
ALLIED offers this indispensable value absolutely free with every order for ten or more Centralab Volume Controls.

CENTRALAB VOLUME CONTROLS (Continued from Page 50)

Manufacturer and Model No.	Cat. No.	YOUR PRICE
Kolster Radio (Columbia Phonos)		
K20, 22, 25, 27	E2170	\$0.73
K-31, 41, 22, 25, K30, 32	E2171	73
H10, H15 and H17	E2172	73
C1, C2, C3, C4, C5, C6, C7	E2173	73
980, K24	E2174	73
981-902-C-11	E2175	73
K42, K43, K44, K45	E4883	1.47
930 AC "Special"	E4880	2.20
930	E2176	73
960	E2177	73
100 Series	E2413	98
60 Series, 31-33 Columbia	E2419	98
32-34	E2206	98
70 Series, 80, 90, "Special"	E4884	1.47

Manufacturer and Model No.	Cat. No.	YOUR PRICE
National Carbon Co. (Eveready)		
1, 2, 3	E2179	73
30, 40 Series	E2182	73
31	E2172	73
50 Series	E2167	1.47

Manufacturer and Model No.	Cat. No.	YOUR PRICE
Philco	E2183	73
651, 512, 513, 514, 515, 521, 531, 541, 551, 561, 571, 581, 591 Series 5, 82-86, 87	E2175	73
1, 2, 3, 96, 98A, 92, 95, 95E, 101 and 11A, 211, 211A, 285, 295A, 111, 111A, 112, 112A, E2181		73
78, 77, 77A, 70 Series	E2165	1.47
Transitone No. 3, 30 Series	E2180	73
40, 42, 220A, 20A, 220, 41	E2168	1.47
40	E2453	73
41, 42	E4841	73

Manufacturer and Model No.	Cat. No.	YOUR PRICE
R. C. A. Victor		
R-32	RE-C5, RE15, RE17	E2162
R-32, RE-45, R-52, RE-75, E2161		1.47
5-Circuit RE-35, RC-2A, RE-30, RE-37, RE-73, RE-54		1.47
4-Circuit RE-35	E2163	1.47
RS, RSX	E2454	73
R7, 74	E2184	73
R Superhette	E4827	73
7A, R-11, RE-18	E4826	73
RS0, RS5	E2178	73
RS7, 82	E4840	73

Manufacturer and Model No.	Cat. No.	YOUR PRICE
R.C.A. "Radiola"	E2184	73
60, 82, 86	E4828	73
Silver-Marshall, Inc.	E4833	73
630	E4833	73
48M-730 Around the World	E2172	73

Manufacturer and Model No.	Cat. No.	YOUR PRICE
Silver-Marshall, Inc.		
740AC Coast to Coast	E2183	\$0.73
714	E2200	73
722AC, 30B, 60B, 75B, 95B	E2401	73
725	E2189	73
Roymont Seven SM1090	E2180	73
37, 38, 39, 782	E2189	98
683, A, F, D, EG, J, 716	E2185	73
B 713, 715	E2402	73

Manufacturer and Model No.	Cat. No.	YOUR PRICE
Sonora Phonograph Co., Inc.		
2RP-25, 3R & 4R, 5R, A-30, A131, A-32, A-36, A-40, A-44 DeLuxe, ASD, 470	E4829	73
B-31	E2183	73
E-A C	E2180	73

Manufacturer and Model No.	Cat. No.	YOUR PRICE
Sparks Withington (Sparton)		
62, 63, 110, 116 DeLuxe, 931, 301, Sparks Ensemble, 666	E2172	73
610, 620	E2172	73
AC7	E2175	73
69, 79, 79A, 89, 89A, 100, 53, 101, 103	E2182	73
301, 930, 989, 574, 737	E2188	73
591-503	E4828	73
525, 2350D	E2189	73
5 & 9DC	E2189	98

Manufacturer and Model No.	Cat. No.	YOUR PRICE
Steinle Radio		
30	E2453	73
Super Heterodyne "Special"	E4839	73
40, 50, 102, 400, 600, 1030, 70, 80, 90, 110, 112, 420, 210, 230, 420, 450	E2172	73
261, 262, Series	E2170	73
562, 900, 991, 992	E2173	73
Midjet 21, 23 "Special"	E4830	73
Midjet "Special"	E4811	47
22, 25	E2188	73
26, 28	E2184	73
421, 425 or 21, 203, 600, 605, 630, 635, 642, 643	E2425	98

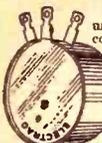
Manufacturer and Model No.	Cat. No.	YOUR PRICE
Stewart-Warner Corp.		
500, 520, 525, 580	E2173	73
530, 535	E2171	73
700, 705, 710, 900 series "Special"	E4820	98
715-720, R-100A, R-100B, R-100F, R-100AF, 110		
Series "Special"	E4821	98
801-802	E2177	73
811	E2172	73

Manufacturer and Model No.	Cat. No.	YOUR PRICE
Stewart-Warner Corp.		
970AC-980	E2165	\$1.47
305-315, 320	E2453	73
309, 310, 325	E2188	73
363	E2170	73
950 & 100A Series, R100F "Special"	E4821	98
Stromberg-Carlson Tel. Mfg.		
523, 523, 734R, 741B	E2178	73
635	E2189	73
635, 636, 60, 602, 633, 634	E4863	1.47
Long Shaft		
638, 601, 602, 633, 634, 635, 636, 601, Double Shaft	E4864	1.47
10, 11	E2178	73
12, 14, Automatic Volume Control	E2180	73
641, 652, 654 Long Shaft	E2182	73
L41A	E4862	1.47
L41A	E2180	73

Manufacturer and Model No.	Cat. No.	YOUR PRICE
U. S. Radio & Television (Apex)		
30 series	E2174	73
Glortone, 26, 26B, P-20	E2401	73
69 Series	E2424	73
29, 31 Series	E2186	73
Midjet 32-32A, 32B, 49	E4838	73
28 Series	E4837	73
7-A and 8-B	E2400	73
8 and 10 Series	E2451	73
Midjet 27 Series (Late)	E2425	1.47
48, 46A, 47, 47A, 48, 48A	E2453	73

Manufacturer and Model No.	Cat. No.	YOUR PRICE
Zenith Radio		
11, 12, 14, No. 31, 32, 33, 34, 35, 35A, 312, 352, 352A, 362, 33X, 362X, 353, 353A, 34P, 342P, 36XP, 35APK, 352PX, 352APX, 37A, 35P, 35AP, 352P, 352AP, 38, 35P, 382, 392A, 40A, 16EP, 17, 613, 60, 61, 62, 602, 622	E2413	98
565	E2190	98
52, 522, 53, 532, 54, 542, 57, 50 Series, 70, 102, 112, 212, 10, 11, 12 Spec., 122, 70X, 80	E4845	1.47
70 Series, 50, 60, 70, 71, 72, 73, 77, 712, 722, 732, 772 (Later type) Special (Dual)	E4882	2.20
"Zenette" CH, RH, No. 3A, AH, 10, 11, 12, 102, 112, 122, 70, 70X, 50	E4823	73
2000	E2410	98
70X, 80	E2178	73
L P	E2189	98

The Standard Control



Electrad Volume Controls of unusual fine quality, carefully constructed to give efficient service. Units selling for 60c are a standard type with 1/4 inch shafts, for universal mounting. All other types listed have been constructed to original mechanical and electrical specifications.

ELECTRAD

New "Snap On" Switch

VOLUME CONTROLS
A comprehensive listing of replacement volume controls. 60c units are supplied without A.C. switch. If you are unable to determine which control is required, mail order with deposit, and we shall supply.

An A.C. switch assembly for use with all standard and Electrad Volume Controls, selling for 60 cents. Just pry off metal cap of volume control and "Snap-on" switch.
NO. E3707. YOUR PRICE 29c



Manufacturer and Model	Cat. No.	YOUR PRICE
A. C. Dayton Co.		
XL5, XL10, XL20, XL25	E3706	\$0.60
XL30, XL50, XL60, XL61, XL70	E3701	.60
AC65, AC66, AC68	E3704	.60
Navigators	E5050	1.30
All-American Mohawk Co.		
S-8, S-7, S-6	E3694	.60
Model 90, Model J, Model "J" with Pentodes	E3696	.60
5 Tube Battery Set	E3701	.60
7 Tube Dial Battery Set	E3701	.60
AC-226, 227, 60, 61, 62, 65, 66, E3704		.60
80, 83, 84, 86, 88	E3701	.60
Leoric "J", "H", "96, 90, C6	E3696	.60
70, 75, 76	E3696	.60
H. Lyric Model D.A.	E3696	.60
6 Tube Electric Set	E3704	.60
Mohawk	E3704	.60
Leoric K	E3704	.60
Model B-7	E5052	2.16
American Bosch Magneto Co.		
Model 5, Model 20 Superhet.	E3696	.60
46 DC, 27 Ambrola, 16 Ambrola, 35 Cruisers, 57, 87, 96, 95, 74L, 51DC	E3706	.60
96 DC-96, 148, 166, 176	E3704	.60
46AC, 126, 107, 116	E3704	.60
Models 28 and 29	E5053	.90
58 and 62	E5054	.90
40	E5058	1.08
5A, 7A, 20, 31, 36, 73, 133, and 133	E5056	.60
80 and 84	E3701	.60
60 and 63	E3704	.60
100 Motor Car	E5057	.68
Model 53, 54	E3696	.60
18 A.C. and 71 D.C.	E5059	1.48
Amrad Corporation		
S-522, DCC, 70C, 70C, DCT, 107 C, S23, S133-C, 80	E3706	.60
82-83, 1100 70	E3696	.60
AC-6, AC-C-6	E3704	.60
AC-7, AC-C-7	E3704	.60
80	E3700	.60
84	E3704	.60
Andren, F. A. D. (Fada)		
41, 42, 44, 46, 47	E3705	.60
Model 45 (K.U.)	E3693	.60
Model 48, 49 (K.W.)	E3704	.60
Model 51, 53, 57 (K.O.C.)	E3693	.60
BF-50, 80, 408B, 160, 192A, 192S, SF-50, 80A, 192B3, 480A, 480A, 21	E3706	.60
472UA, CA, SF, 457S, 457Z, 10Z, 11Z, 31	E5059	.68
26Z, 268UA, CA, R145UA, R16Z, 7 EACA, 7AC, 475	E5059	.68
30 and 32Z, 50, 70, 71, 73, 20Z, 25, 25Z, 15M, 15M2, 35, 35Z	E3690	.60
41, 42, 44, 46, 47	E3696	.60
76	E3697	.68
1635AH	E5062	.68
16, 17, 32, 16Z, 52Z, 18DC	E3696	.60
Atwater Kent		
Model 37, 39, 40, 42, 44, 52 (Resistance Strip)	E5063	.40
Model 55, 60, 66 (Strip)	E5065	.95
80	E5065	.95
83 DC	E5065	.95
84	E5065	.95
86	E5065	.95
82Q and 85	E5069	.68
Model H	E5070	1.70
Audiolin Radio Co.		
8T-Super Pentode, 9-T Super Pentode	E3696	.60
6 Tube, 5 Tube, 527, 627, 6T	E3706	.60
30B, 7330	E3696	.60
8430	E3701	.60
889	E3687	.60
91	E3696	.60
31, 31 Super	E3696	.60
4T, 31, 4T	E3696	.60
6T, 31, Pent. Junior	E3694	.60
6T Junior, No. 1, No. 2	E3696	.60
13-T-5	E3696	.60
10-T Super	E3696	.60
7-T-Super-Pent	E3694	.60
9-T-Super	E3696	.60
3 Tube 60C	E3696	.60

Manufacturer and Model	Cat. No.	YOUR PRICE
Bremer-Tully Mfg. Co.		
6	E3701	\$0.60
6-40	E3704	.60
7-20, 7-11	E3696	.60
8-20, 8-21	XL360	.60
Counterphase-8	E3704	.60
24, 21, 31, 31, 82	E3701	.60
Browning Drake Corp.		
34, 36, 38	E3696	.60
60	E3695	.60
70, 71	E3704	.60
Brunswick Balke-Collender Co.		
B-17, P.R. 17-8	E5071	.80
2KR, 5KR, 2KR0, 5KR0	E5072	.80
3KR, 5KR, 3KR	E5073	.80
3NCB, 5NCB, 3NWS	E3704	.60
17, 24, 25, 4PA, 4A	E5074	.95
814, 821, 831, 881, 882	E5074	.95
11-1	E3693	.60
D-11, 12, 16, 33	E5075	.60
14, 21, 31	E3701	.60
Models 814, 821, 831, 881, 882	E5076	1.35
16-16 Radio Corp.		
16-1, 16-5, 17-5, 20-21	E3706	.60
47, 484	E3706	.60
Model 32 A.C.	E5077	1.35
Columbia Radio Corp.		
Screen Grid 8	E3696	.60
Crosley Radio Corp.		
XL, SR3, A-20, 6-60, 6-85, RFL90, 401, 401A	E3706	.60
20, 21, 22	E3701	.60
602, 606, 609, 11V, In. Shaft	E5078	.68
904 (Short Shaft)	E3699	.68
Buddy Chum	E3695	.60
308, 318, 338, 348	E3699	.60
6C-7	E3696	.60
828, 408, 418, 428, 438	E5080	.68
Early 40-8	E3701	.68
77, 84	E5081	.68
120	E3696	.60
53, 54, 57, 58	E3696	.60
705	E5082	.68
55, 56	E3696	.60
62, 92, 121, 121-1 Series B, 122	E3693	.60
125, 124	E3694	.60
010 (Female Shaft)	E5083	.68
708 (Long Shaft)	E5082	.68
704 (Short Shaft)	E5082	.68
Models 704, 704B, 705, 708DC	E5085	.95
28 (Long Shaft)	E3702	.60
Edison Corp., Thomas A.		
SC, CI, R1, R2, C2	E5086	.68
R-0, R-7	E3704	.68
Spulford 6 tube	E3706	.60
Abbey	E5087	.68
R-290	E3701	.68
E-175	E5086	.68
Models R1, R2, R3 (Front)	E5088	.80
Electrical Research Lab. (Erla)		
R-1	E3704	.60
224AC	E3700	.60
24S Super	E3701	.60
335	E3692	.60
250	E3694	.60
Model 271	E5089	1.62
Emerson Radio & Phonograph		
F, 100-A	E5090	.95
Series 85	E3687	.60
Eveready (National Carbon)		
Models 1, 2, 3	E5093	.95
Federal Radio Corp.		
G, C, D, 50, 102, A-10	E3706	.60
Series Fil. D, G	E3701	.60
G-10-60, G-40-60, G-41-60, K-10-60, K-40-60, K-41-60, M-35-60, M-40-60, M-41-60	E3704	.60
M-45-60, M-46-60	E3704	.60
Freshman		
Masterpiece, Equiphase	E3706	.60
G-Q-15, Q-16	E3696	.60
2H, K, 14, 18	E3704	.60
2H, M, 2N	E3696	.60
Models 31, 32, 33	E5091	1.49
Earl Radio Corp.		
31, 32, 31	E3701	.60
21DC, 21AC, 34DC, 31DC	E3708	.60
32, 31DC, 21AC, 22AC	E5092	1.35
Models 21, 22 A.C.	E5092	1.35
Fredericann Radio Corp.		
NR, 10, 10, 12, 20, 40, FE15, 18, NR600, 71	E3706	.60

Manufacturer and Model	Cat. No.	YOUR PRICE
Freed-Eisenman Radio Corp.		
NR-60, 57, 70	E3696	\$0.60
NR-78, 79, 95	E3701	.60
NR1A, 2C & DC	E3704	.60
NR30DC	E3696	.60
General Electric Co.		
H-71, H81, J131	E3691	.60
T-12	E5093	.68
K-62	E5094	.68
General Motors Radio Corp.		
Day Fan Nos. 537, 5944	E5095	.80
OEMT, OEM11	E5095	.80
35 Junior, 6-61, 6, 6R, 5050	E3706	.60
6	E3696	.60
Day Fan Nos. 5003, 5001	E3696	.60
5077, 5080	E3696	.60
Chassis S1A, S1B	E5096	1.05
Chassis S1A, S1B	E5096	1.05
Chassis S9A, S9B	E5099	1.05
Chassis S10A, S10B	E5100	1.05
Models 216, 217, 219, 250	E3696	.60
Gillian Bros.		
10	E3696	.60
60	E3696	.60
300	E3696	.60
130	E3696	.60
Model 105, 106	E3696	.60
Graybar Electric Company		
311	E5072	.80
800	E5101	.80
700, 770, 900	E5095	.80
Grebe & Company, A. H.		
AC6, ACT, 428	E3696	.60
AH1	E3688	.60
HS-4	E3696	.60
HS-4 Models 1, 2, 3, 4	E3701	.60
SK40C	E3696	.60
SK4AC	E3690	.60
Grigby-Grunow Co.		
70, 70B	E3696	.60
180, 90, 91, 92, 100B	E3701	.60
120-A, 120-B, 120-C	E3696	.60
20, 21, 22, 23	E3696	.60
120, 121	E3696	.60
15, 15B, 25, 150	E3694	.60
Auto R, 100	E3696	.60
Models 25-B and 35 Chassis	E5103	.95
Models 15, 150 Chassis	E5104	1.20
Model 60 Chassis	E5105	.68
Model 130 Chassis	E5106	.68
Model 25 Chassis	E5107	1.20
Model 90, 90B, 100, 100B (Equalizer)	E5108	.80
Gulbransen Co.		
Early Nine in Line	E3696	.60
7 Tube Champion Jr.	E3696	.60
724	E3696	.60
Hammarlund Roberts, Inc.		
Hi-Q, 5 tube & 6 tube	E3706	.60
Hi-Q, 6 tube and A.C.	E3696	.60
Hi-Q, 20 Master, Hi-Q 30	E3706	.60
A.C. Hi-Q 31 A.C.	E3694	.60
Model Hi-Q 32	E3694	.60
Howard Radio Co.		
Type O	E3696	.60
AH	E3704	.60
7 Battery	E3706	.60
Green Diamond 8	E5109	.68
Hi Super Heterodyne	E3696	.60
Midwest SGB	E3696	.60
Kellogg Switchboard		
6 Wave Master	E3706	.60
3 Tube B, 7 & 7 Tube A	E3701	.60
428, 428, 534, 535, 536	E3701	.60
Kennedy Corp., Colin B.		
5, 6, 7, 15, 16, 20, 30, 220, 281	E3706	.60
10	E3701	.60
80	E3704	.60
20, Short Wave Unit for 826	E3700	.60
30, 32	E3700	.60
42	E3696	.60
Models 52, 52A	E5110	.80
Model 56	E5111	1.26
Model 67	E5112	.68
King Mfr. Co.		
F, F, G, 62, 71, 80, 81, 25	E3706	.60
H, J	E3696	.60
97, 98, 101	E3696	.60
82	E3696	.60
218	E3696	.60

(Continued at bottom of page 53)

NEW ELECTRAD RI REPLACEMENT CONTROLS



The Electro-Resistor Volume Controls listed here are of the standard type, constructed to be as universally applicable as possible. With the help of the Electro-Resistor Volume Control Guide, listed on this page, a unit may be chosen for almost any replacement job. Insulated shafts may be cut down to suit. All units are furnished with a tap potentiometer type. If resistant is required, center and one outside tap are used. Diam. of case, 1 1/4". Code "R" indicates reverse taper; others uniform. Without A.C. switch.

Cat. No.	Mfg. No.	Resis. Ohms
6880	RI-269	30
6882	RI-270	20
6884	RI-271	50
6886	RI-272	100
6888	RI-273	200
6890	RI-274	400
6892	RI-282	600
6894	RI-285	800
6896	RI-276	1000
6898	RI-282	2000
6900	RI-283	3000
6902	RI-277	4000
6904	RI-284	5000
6906	RI-278	10000
6908	RI-285	20000
6910	RI-286	30000
6912	RI-287	40000
6914	RI-288	50000

Cat. No.	Mfg. No.	Resis. Ohms
6916	RI-240	10000R
6918	RI-241	10000
6920	RI-240	15000R
6922	RI-279	25000
6924	RI-280	25000R
6926	RI-241	30000R
6928	RI-295	50000
6930	RI-202	75000
6932	RI-242	100000R
6934	RI-281	200000
6936	RI-238	250000R
6938	RI-203	500000R
6940	RI-206	1000000R
6942	RI-204	3000000

Unit, \$1.00. YOUR PRICE, EACH... **60c**

Unit, \$1.00. YOUR PRICE, EACH... **60c**

"SNAP-ON" AC SWITCH ASSEMBLY

For Electro standard volume controls, as listed above. Easily attached by removing metal cap from volume control. **E3702, List. 30c. NET EACH... 29c**

ELECTRAD RESISTOR VOLUME CONTROL GUIDE



Shows you at a glance exactly the value of resistor or volume control required for the job involved in installing a replacement. A perpetual file, kept constantly up to date by revised lists mailed four times a year. Hand size (3 1/2") x 7 1/2" flexible, tough black Fabrikoid cover. No. E3000. YOUR PRICE... **\$1.00**

PILOT RESISTORAD

Variable inductive non-resistance with range from 40 ohms to 10 meg. Will handle 20 watts, 1/2" diameter, overall, 1 1/4" in diameter. Single hole mounting. No. E5926. YOUR PRICE... **50c**



CARTER 400 OHM POTENTIOMETER WITH SWITCH

The fine quality Carter Potentiometer with switch. Prevents damage to microphone and eliminates noise from current surge. No. E2034. List. \$1.00. NET... **59c**

Frost Volume Controls

Series 4299 Bakelite shell volume control, roller type, composition element unit. Listed below with and without switch. Straphair 1 in. e resistance characteristic bushing.

No. Less Switch	Resis. Ohms	No. with Switch
4299	5000	4299
4300	10000	4300
4301	25000	4301
4302	50000	4302
4303	100000	4303
4304	250000	4304
4305	500000	4305

Less Switch NET EACH **65c** With Switch NET EACH **79c**



ELECTRAD VOLUME CONTROLS - Continued From Page 52

Manufacturer and Model	Cat. No.	YOUR PRICE
Knight Radio		
SG 8	E3695	\$0.60
Super 7	E3686	.60
Super 9	E3704	.60
Kolster Radio Corp.		
23, 25, 27, 37, 61, 61K, 61R	E3706	.60
K-20, 22, 25, 27, 31, 21, 23	E3696	.60
K-42	E3698	.60
K-48	E3700	.60
K-10, 15, 16	E3696	.60
980, 203, C1, C2, C4, C5, C6	E3704	.60
CT	E3704	.60
K-40, K-62	E3692	.60
K-70, K-72, K-80, K-82	E3696	.60
K-90, K-92	E3696	.60
Montgomery Ward		
2822, 2805, 2897, 2827	E3701	.60
3035, 3037, 3065, 3067, 1522	E3696	.60
1502	E3696	.60
20W, 62-520, Model 49, 26P	E3696	.60
111, 811, 111X, 811X	E3701	.60
1355, 1955	E3705	.60
62, 1040	E3696	.60
Cavalier, Commander	E3696	.60
181, 187	E3693	.60
National Company, Inc.		
MB29	E3695	.60
MB30, Auto Receiver	E3700	.60
National Carbon (Eveready)		
30, 40, 50 Series	E5115	2.05
Ozarka, Inc.		
90	E3696	.60
91	E3692	.60
92-A-C	E3695	.60
93	E3696	.60
Philco		
82, 5, 86, 87, 511, 521, 531, 541, 551, 561, 571, 581	E5114	.60
Transistone 85, 96, 96-A, 30	E3704	.60
181, 211A	E3684	.60
76	E3684	.60
112, 112A, 212, 212A	E3704	.60
181, 111A	E3704	.60
R.C.A. Victor Co.		
Radiola 16	E5115	.95
Radiola 17, 50, 41, 7-25, 7-54	E5071	.80
Radiola 18, 33, 51, 7-11, 7-26	E5072	.80
Radiola 44, 46, 45	E5116	.80
Radiola 60, 62	E5073	.80
Radiola 64, 67, 9-18, 9-54	E5117	.80
Radiola 64, Sensitivity Control	E5118	.80
Radiola 66	E5119	.80
Radiola 80, 82, 86, 85, 39, 51	E5120	.80
Radiola R-5, RTA	E5121	.80
Radiola Superette, RTA	E5122	.80
Radiola R-11	E5123	.68
Model 46 D.C.	E5124	.68
Models RAE 50, RAE 78	E5125	.68
R-50, R-65, RE-28	E5125	.68
R-32, R-38, RE-22, RE-75	E5126	1.35
R-16, 48	E5127	2.05
R-14	E5128	2.05
RE-35, RE-39, 57	E5129	2.05
Model A	E5130	2.05
Silver-Marshall		
27, 38, 43	E3700	.60
Model "A", Model "F", "D"	E3692	.60

Manufacturer and Model	Cat. No.	YOUR PRICE
Silver-Marshall (Cont.)		
Model 36A	E3690	\$0.60
620, 650, 655, 844	E3704	.60
63684	E3684	.60
710-740	E3690	.60
712	E3695	.60
729-30, 30B, 60B, 75B-90B	E3695	.60
724, 36A	E3690	.60
Bearcat-Midget	E3694	.60
726	E3695	.60
8M01 Super	E3694	.60
37, 38, 39	E3696	.60
716, "B", "G"	E3691	.60
718, "B"	E3692	.60
Sparks-Withington (Spartan)		
40, 5-26, 5-15, 39, 6-26, 6-15	E3706	.60
5, 0	E5131	1.05
10	E5132	1.05
12	E5133	1.05
25, 26	E5134	1.05
110AC, 301, 111A, 101, 103, 109, 589, 600, 610, 620, 630, 846, 848, 824, 89, 737, 974, 870, 581, 593, 584, 570, 740, 750	E5135	.68
Alt-19 (Auto Radio)	E5136	.68
410, 420 (Junior Jewell)	E5137	1.62
Steuarte		
40, 50, 102, 40C, 80C, 102C	E3701	.60
70, 80, 95	E3694	.60
22	E3696	.60
991, 992, 993	E3701	.60
15	E3701	.60
22	E3696	.60
28	E3701	.60
28	E3696	.60
Models 412, 420, (15 Chassis)	E3701	.60
Models 210, 230, 420, 450 (15 Chassis)	E3701	.60
Models 421, 425 (Model 21 Chassis)	E3695	.60
Model 203, 600, 605, 630, 642, 643 (Model 22 Chassis)	E3695	.60
Model 423 (Model 23 Chassis)	E3696	.60
Model 700, 705, 708, 725, 642-B (Model 26 Chassis)	E3691	.60
Models 700, 701 (Model 28 Chassis)	E3691	.60
Stewart-Wayner Corp.		
300, 305, 310, 315, 320, 325, 340, 345, 350, 355, 300, 385, 390, 500, 520, 325	E3706	.60
900-911	E3701	.60
Models 102A, A.C., R101A, R101B	E3696	.60
Models 950, A.C., R100A, R100B, R100C	E5138	.68
Models 950, 880, Battery-950, 970, R100C	E5139	1.35
Stromberg-Carlson Mfg. Co.		
5A, 1B, 601, 502, 601, 602, 635, 636, 638 (Short Shaft)	E3700	.60
(Double Shaft)	E5141	.68
648, 648 (Double Shaft)	E5142	.68
(Long Shaft)	E5143	.68
641, 642, 652, 654 (Long Shaft)	E5143	.68
(Double Shaft)	E5144	.68
10, 11, 16, 17	E5145	.68
19, 20, 21, 705, 708, 725	E5146	.68
12, 892, 16, 11, 12, 102, 112	E5147	.95
22 and 24	E5147	.95
25 and 26	E5145	.95

Manufacturer and Model	Cat. No.	YOUR PRICE
Stromberg-Carlson Mfg. Co. (Cont.)		
638 D.C. (Short)	E5148	\$0.68
38, 39, 40, 41	E5149	1.35
Transformer Corp. of America		
Clarion 51, 53, 55	E3700	.60
Models 61, 70	E3696	.60
Clarion 80	E3701	.60
Clarion 90	E3692	.60
Model 40	E3700	.60
Junior 60, 25	E3700	.60
Model 04	E3695	.60
Model 05	E3701	.60
Model 92	E3695	.60
Model 40	E3690	.60
United Air Cleaner Corp.		
106B, 440, 10B, 666C, 666	E3696	.60
Series 32	E3700	.60
Series K-70	E3693	.60
Courier 65	E3687	.60
104	E3696	.60
110, 102A, 108B	E3684	.60
7 Tube Super	E3696	.60
Sentinel 114	E3704	.60
99	E3684	.60
U. S. Radio & Television Corp.		
Case 50, Apex 36, 37	E3696	.60
Apex 31, 32	E3694	.60
Gloriotone Lat 27, 26, 29, 32	E3684	.60
Apex 49, Bart, Gioriotone 20	E3696	.60
Apex 59, 60	E3696	.60
Model 90	E3696	.60
Model 99	E3696	.60
Gloriotone Early 27	E3688	.60
Gloriotone 28	E3685	.60
No. 8 Series Super Heterodyne	E3705	.60
No. 10 Series Super Heterodyne	E3705	.60
No. 28, 29, 32	E3685	.60
7 Series, Pentode	E3704	.60
United Reproducers		
Series 20, Peerless	E3704	.60
Series K-70	E3693	.60
Courier 65	E3687	.60
Wells-Gardner & Co.		
C. C. 80	E3689	.60
Arcadis 42	E3696	.60
Model 80A	E3696	.60
Series Ten Super	E3701	.60
Westinghouse Elec.		
WR-5, WR-6, WR-7, WR-8	E5095	.80
WR-19, WR-10A	E5122	.80
WR-14	E5123	.80
WR-15	E5123	.80
WR-4	E5127	2.05
Zenith Radio Corp.		
14, 15, 16, 17, 27, 39, 353, 34, 35, 35A, 342, 353, 352A, 362, 353, 355	E3701	.60
34-P, 342P, 40A, 41, 42, 422, E3701	E3701	.60
35P, 35, 35A, 352P, 353	E3701	.60
48, 48PX, 47, 61	E3701	.60
52, 53, 54, 60, 61, 62, 64, 67, E5150	E5150	.95
60Z-61Z, 62Z, 64Z, 67Z	E3700	.60
5 Tube Zenette	E3696	.60
5 Tube Zenette with Pentode	E3694	.60
6 Tube Zenette	E3701	.60
Hyper-Merton, 82, 89, 82Z, 82, 89Z, 10, 11, 12, 102, 112	E3700	.60
122	E3700	.60
100	E5151	1.40

CARBON REPLACEMENT RESISTORS



KNIGHT CARBON RESISTORS

Absolutely noiseless resistors with a permanent resistance value. Not affected by temperature changes or moisture. Fitted pigtail leads for easy 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. E1748	1,000	No. E1789	1,000
No. E1670	1,500	No. E1683	1,250	No. E1831	1,250
No. E1726	2,000	No. E1684	1,500	No. E1832	1,500
No. E1671	2,500	No. E1685	2,000	No. E1833	2,000
No. E1727	3,000	No. E1749	2,500	No. E1770	2,500
No. E1672	4,000	No. E1750	3,000	No. E1834	2,500
No. E1728	5,000	No. E1687	4,000	No. E1771	5,000
No. E1673	6,000	No. E1751	5,000	No. E1835	6,000
No. E1729	7,500	No. E1688	6,000	No. E1772	7,500
No. E1674	8,000	No. E1689	8,000	No. E1836	8,000
No. E1730	10,000	No. E1752	10,000	No. E1773	10,000
No. E1731	12,000	No. E1690	12,500	No. E1837	12,500
No. E1732	15,000	No. E1691	15,000	No. E1838	15,000
No. E1675	17,500	No. E1692	17,500	No. E1839	17,500
No. E1733	20,000	No. E1753	20,000	No. E1774	25,000
No. E1676	30,000	No. E1693	25,000	No. E1840	30,000
No. E1677	40,000	No. E1694	30,000	No. E1841	40,000
No. E1734	50,000	No. E1754	40,000	No. E1775	50,000
No. E1678	60,000	No. E1695	50,000	No. E1842	60,000
No. E1735	75,000	No. E1755	60,000	No. E1776	75,000
No. E1736	100,000	No. E1756	75,000	No. E1777	100,000
No. E1679	150,000	No. E1757	100,000	No. E1843	150,000
No. E1737	200,000	No. E1696	150,000	No. E1778	200,000
No. E1680	300,000	No. E1758	200,000	No. E1844	300,000
No. E1738	500,000	No. E1759	300,000	No. E1779	500,000
No. E1739	750,000	No. E1760	400,000	No. E1780	750,000
No. E1740	1 meg.	No. E1761	500,000	No. E1781	1 meg.
No. E1741	2 meg.	No. E1762	750,000	No. E1782	2 meg.
		No. E1763	1 meg.	No. E1783	3 meg.
		No. E1697	2 meg.	No. E1784	5 meg.
		No. E1698	3 meg.	No. E1845	7 meg.
		No. E1764	5 meg.	No. E1846	9 meg.
			10 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 1-200,000 ohms
- 1-2,000 ohms 1-25,000 ohms 1-500,000 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 2-100,000 ohms
- 1-800 ohms 1-12,500 ohms 2-250,000 ohms
- 2-1,000 ohms 1-15,000 ohms 2-500,000 ohms
- 1-1,500 ohms 1-17,500 ohms 1-750,000 ohms
- 2-2,000 ohms 2-20,000 ohms 2-2 meg.
- 1-2,500 ohms 2-25,000 ohms 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 Huick, 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	5,000	\$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	1.37
No. E6455	200,000	2.50	1.81
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	4.00	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.

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 I R C Metallized RESISTORS

New Low Prices

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 3/4" x 3/8". Rating: Below 360,000 ohms—1 watt. Above 360,000 ohms—600 volts Max. With binding post screw and nut terminals.

1 WATT

No.	Ohms	No.	Ohms
E45560	100	E4570	50,000
E45562	250	E4571	75,000
E45564	500	E4572	100,000
E45565	1,000	E4573	150,000
E45566	1,500	E4574	200,000
E45567	2,000	E4575	250,000
E45568	2,500	E4576	300,000
E45569	3,000	E4577	400,000
E45570	3,500	E4578	500,000
E45571	4,000	E4579	1 meg.
E45572	5,000	E4580	2 meg.
E45573	6,000	E4581	3 meg.
E45574	7,000	E4582	4 meg.
E45575	8,000	E4583	5 meg.
E45576	10,000	E4584	6 meg.
E45577	12,500	E4585	7 meg.
E45578	15,000	E4586	8 meg.
E45579	20,000	E4587	9 meg.
E45580	25,000	E4588	10 meg.
E45581	30,000		

List, 30c. NET. EACH

2 WATTS

No.	Ohms	No.	Ohms
E4608	50	E4608	12,500
E4609	100	E4609	15,000
E4610	250	E4610	20,000
E4611	500	E4611	25,000
E4612	1,000	E4612	50,000
E4613	1,250	E4613	75,000
E4614	1,500	E4614	100,000
E4615	1,750	E4615	150,000
E4616	2,000	E4616	200,000
E4617	2,500	E4617	250,000
E4618	3,000	E4618	300,000
E4619	3,500	E4619	400,000
E4620	4,000	E4620	500,000
E4621	1 meg.	E4621	1 meg.
E4622	2 meg.	E4622	2 meg.
E4623	3 meg.	E4623	3 meg.
E4624	4 meg.	E4624	4 meg.
E4625	5 meg.	E4625	5 meg.

List, 30c. NET. EACH

No.	Ohms	List	NET
E2833	1	1.50	EACH
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	2,500	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	2.74

18c FREE To Buyers of I. R. C. Resistors

Resistor-Replacement Guide

Gives detailed information on resistors used in nearly all leading sets, showing resistance, etc. Given FREE with every order 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. C. color code. Reversely, indicates color combination of any given resistance. E2794

3 WATTS

No.	Ohms	No.	Ohms
F4627	100	E4638	75,000
E4628	500	E4639	100,000
E4629	1,000	E4640	150,000
E4630	2,000	E4641	200,000
E4631	3,000	E4642	250,000
E4632	4,000	E4643	300,000
E4633	5,000	E4644	400,000
E4634	10,000	E4645	500,000
E4635	15,000	E4646	1 meg.
E4636	20,000	E4647	2 meg.
E4637	25,000	E4648	3 meg.
E4638	30,000	E4649	4 meg.
E4639	50,000	E4650	5 meg.

List, 50c. NET. EACH

29c

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 tolerance of 5% makes these resistors well suited for application 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	2,000
E2601	5	E2607	500	E2613	2,500
E2602	10	E2608	1,000	E2614	3,000
E2603	25	E2609	1,500	E2615	4,000
E2604	50	E2610	2,000	E2616	5,000
E2605	100	E2611	2,500	E2617	7,500

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	2,500	E2636	20,000
E2623	100	E2630	3,000	E2637	25,000
E2624	200	E2631	5,000	E2638	30,000

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	1,500	E2673	20,000
E2658	25	E2666	2,500	E2674	25,000
E2659	50	E2667	3,000	E2675	30,000
E2660	100	E2668	5,000	E2676	40,000
E2661	200	E2669	7,500	E2677	50,000
E2662	300	E2670	10,000		

List, Each, 70c. YOUR PRICE, EACH

NEW HANDY I R C 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; 75,000; 100,000; 200,000; 250,000; 500,000.

MEGOHMS: 1.0; 1.5; 2.0; 3.0. NO. E2796. List, 65.00. YOUR PRICE \$3.50

CERTIFIED KIT NO. 2

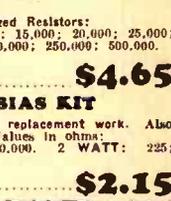
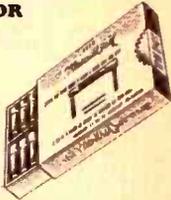
One each of the following in 2-watt Metallized Resistors: OHMS: 500; 1,000; 2,000; 5,000; 10,000; 15,000; 20,000; 25,000; 50,000; 60,000; 70,000; 75,000; 100,000; 200,000; 250,000; 500,000. NO. E2798. List, 85.00. YOUR PRICE \$4.65

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: 150; 1,450. NO. E2798. 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 with low 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 29c



41c

ELECTRAD-KNIGHT-OHMITE RESISTORS

ELECTRAD TRUVOLT RESISTORS

ELECTRAD VARIABLE VOLTAGE DIVIDERS



Patented air cabled construction, insuring longer life and greater accuracy. Sliding ohm permits convenient adjustment. Very adaptable. Ideal for replacement purpose.

Type B-25 Watts-2 In. Long

No.	Ohms	No.	Ohms	No.	Ohms	List	NET
E3600	1	E3817	800	E3834	8000	\$0.90	\$0.52
E3801	2	E3818	850	E3835	9000	.95	.55
E3802	3	E3819	1000	E3836	10000	1.00	.58
E3803	4	E3820	1250	E3837	12000	1.00	.58
E3804	10	E3821	2000	E3838	15000	1.00	.58
E3805	15	E3822	2000	E3839	20000	1.15	.67
E3806	20	E3823	2250	E3840	25000	1.15	.67
E3807	25	E3824	2500	E3841	30000	1.25	.73
E3808	50	E3825	3000	E3842	40000	1.30	.76
E3809	75	E3826	3500	E3843	50000	1.40	.82
E3810	100	E3827	4000				
E3811	200	E3828	4500				
E3812	250	E3829	5000				
E3813	300	E3830	6000				
E3814	400	E3831	7000				
E3815	500	E3832	7500				
E3816	750	E3833	7500				

List Each, 85c. **49c**
NET EACH

If the resistor you require is not listed, mail order with deposit and specifications, and we shall supply.

Type D-75 Watts 6 In. Long

No.	Ohms	List	NET
E3100	100		
E3101	200		
E3102	300	\$1.60	
E3103	400		
E3104	500		
E3105	750		
E3106	800		
E3107	1000		
E3108	1250		
E3109	1500		
E3110	2000		
E3111	2500		
E3112	3500		
E3113	4000		
E3114	5000		
E3115	4900		
E3116	4500		
E3117	5000		

94c

13,000 OHMS-50 WATTS

This universal air cooled voltage divider has 4 sliding taps, permitting the serviceman to obtain various voltage, depending on circuit to which used.
No. E3885. List, \$2.05.
80c
YOUR PRICE

25,000 OHMS-50 WATTS

Voltage dividers with 4 sliding taps. Same as above, for work requiring higher resistance.
No. E3886. List, \$2.30.
80c
YOUR PRICE

25,000 OHMS-72 WATTS

Special heavy duty voltage divider where excessive current is used, 4 sliding taps.
No. E3887. List, \$3.05.
\$1.25
YOUR PRICE

41,000 OHMS-75 WATTS

Designed for the power supply of a 70 or 75 tube receiver or amplifier. Ideal for public address and phonograph amplifiers. Has 6 sliding contacts for all necessary voltages.
No. E3888. List, \$4.50.
\$1.95
YOUR PRICE

Type C-50 Watts-4 In. Long

No.	Ohms	List.	No.	Ohms	List	NET
E3845	100		E3863	6000	\$1.50	\$0.87
E3846	200	\$1.35.	E3864	7000	1.50	.87
E3847	300	YOUR	E3865	7200	1.50	.87
E3848	400	PRICE,	E3866	7500	1.50	.87
E3849	500	EACH,	E3867	8000	1.50	.87
E3850	750		E3868	9000	1.50	.87
E3851	800		E3869	10000	1.65	.96
E3852	1000		E3870	12000	1.65	.96
E3853	1250		E3871	15000	1.80	1.08
E3854	1500		E3872	20000	1.80	1.08
E3855	2000		E3873	25000	1.85	1.08
E3856	2250		E3874	30000	1.90	1.14
E3857	2500		E3875	40000	1.95	1.14
E3858	3000		E3876	50000	2.00	1.17
E3859	3500		E3877	60000	2.10	1.23
E3860	4000		E3878	80000	2.25	1.25
E3861	4500		E3879	100000	2.75	1.62
E3862	5000					

79c

No.	Ohms	List	NET
E3118	6000	\$1.55	\$0.97
E3119	7000	1.65	.97
E3120	7200	1.65	.97
E3121	7500	1.70	1.00
E3122	8000	1.70	1.00
E3123	9000	1.70	1.00
E3124	10000	1.70	1.00
E3125	12000	1.90	1.11
E3126	15000	2.15	1.11
E3127	20000	2.15	1.11
E3128	25000	2.25	1.11
E3129	30000	2.25	1.11
E3130	40000	2.25	1.11
E3131	50000	2.50	1.62
E3132	60000	2.75	1.62
E3133	80000	2.75	1.62
E3134	100000	2.75	1.62

EXTRA SLIDERS
No. E3799.
Each, 8c
PER DOZ. **50c**

TRUVOLT AIR COOLED RESISTOR BANKS Type 250-B 3

Three Truvolt Type C units on an insulated bracket for use as voltage divider with any 250 or 310 amplifier or plate supply device. Total resistance 21000 ohms divided in 8 sections to give all voltages required by means of Truvolt sliding contacts.
No. E3889. **\$2.94**
YOUR PRICE

C 245-B 2- For 245 or 247

Two Truvolt Type C units on an insulated bracket for use with any power supply for 245 type tubes. Total resistance 14,700 ohms divided in 7 sections to give all voltages required, by means of Truvolt sliding contacts.
No. E3890. List, \$3.50.
OUR PRICE \$1.75

OHMITE RESISTORS "Red Devils"

10 Watts
Highly dependable, wire wound resistors with a permanent resistance value. Wound on genuine porcelain core and covered with high temperature cement coat. Moisture-proof and heat-proof. May be subjected to tremendous overload without injury. Will give life-long service. Exceptionally well suited for replacement work because constant resistance value is retained even after substitution to severe abuses. Furnished with 1/4" timed wire leads.

No.	Ohms	No.	Ohms
E2754	5	E2777	1000
E2755	10	E2778	1200
E2756	15	E2779	1500
E2757	20	E2780	2000
E2758	25	E2781	2500
E2759	30	E2782	3000
E2760	35	E2783	3500
E2761	40	E2784	4000
E2762	45	E2785	5000
E2763	50	E2786	6000
E2764	75	E2787	7500
E2765	100	E2788	10000
E2766	150	E2789	12000
E2767	200	E2790	15000
E2768	250	E2791	25000
E2769	300		
E2770	350		
E2771	400		
E2772	450		
E2773	500		
E2774	750		
E2775	1000		
E2776	1500		
E2777	2000		

List, 35c. **YOUR PRICE, EACH 21c**

"RED DEVILS"-20 WATT

No. E2792. 30000
No. E2793. 40000
No. E2794. 50000
List, 85c. **YOUR PRICE 38c**

"RED DEVILS"-30 WATT

No. E2797. 75000
No. E2798. 80000
List, 75c. **YOUR PRICE 44c**

KNIGHT WIRE-WOUND RESISTANCES 20 WATTS



High-grade wire wound resistances for replacement work. Wound on refractory tubing, cement coated, protecting wire from moisture. Accurately tested. Available in following sizes:

No.	Ohms	No.	Ohms
E5700	1	E5718	150
E5701	2	E5719	200
E5702	3	E5720	250
E5703	4	E5721	300
E5704	5	E5722	350
E5705	7.5	E5723	400
E5706	10	E5724	450
E5707	12	E5725	600
E5708	15	E5726	750
E5709	20	E5727	800
E5710	25	E5728	1000
E5711	30	E5729	1250
E5712	35		
E5713	40	E5730	1500
E5714	50	E5731	1700
E5715	75	E5732	2000
E5716	100	E5733	2500
E5717	125	E5734	3000
		E5735	4000

23c

25c

No.	Ohms	NET EACH
E5736	5000	
E5737	6000	
E5738	7500	
E5739	8500	
E5740	10000	

27c

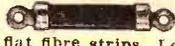
E5741	15000
E5742	20000
E5743	25000

32c

E5744	30000
E5745	35000
E5746	40000
E5747	50000

38c

WIRE WOUND FIXED RESISTANCES



Wire wound on distributed capacity.

No.	Ohms	No.	Ohms
E1150	1	E1160	50
E1151	2	E1161	60
E1152	3	E1162	50
E1153	4		
E1154	6	E1163	100
E1155	8	E1164	200
E1156	10	E1165	400
E1157	15	E1166	500
E1158	20	E1167	600
E1159	25	E1168	700
		E1169	800
		E1170	1000

8c

9c

CENTER TAPPED RESISTORS

An accurate compact resistor, designed especially for A.C. filament circuits.

No.	Ohms	NET	No.	Ohms	NET
E1171	6		E1177	100	EACH.
E1172	10		E1178	200	
E1173	15	EACH.	E1179	400	14c
E1174	20	12c			
E1175	40				
E1176	80				

R.M.A. COLOR CODE CARD

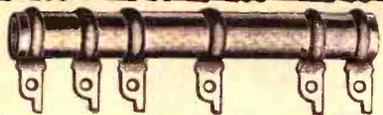


Every serviceman should have an R.M.A. color code card. It indicates quickly and accurately the resistance value applicable to a given color combination, in accordance with the R.M.A. Color Code. Also, reversely, shows the color combination for any given resistance. Is easily operated.
No. E2330. **YOUR PRICE 37c**

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 undependable types being released on the market.



VITROHM DIVIDERS

Ward Leonard Vitrohm Voltage Dividers are vitreous enameled. 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 250° centigrade is not excessive. Built to withstand high humidity and heat conditions. Will serve with maximum efficiency in any receiver.

Mfg. and Model	Total Ohms Resistance	Cat. No.	NET
ARGUS			
B195	5133	E7798	\$2.35
BOSCH			
38, 20 & 825	10000	E7800	.88
	2000	E7801	.59
48 & 49	1400	E7802	.88
54 D.C.	22	E7803	.59
58	5130	E7804	.88
60 & 61	4790	E7805	1.03
	9000	E7799	1.03
	4250	E7806	.88
63 & 63.			
BRANDERS			
(Kolster) 6K, K20, K22, K25, K27, 7120		E7785	1.06
K21 & K23	30000	E7786	2.06
K43	2380	E7787	1.32
K44	2850	E7788	1.49
K10	1000	E7789	.82
B110	2850	E7790	.85
BREMER TULLY			
8-20 & 8-21	13400	E7807	1.18
8-40	16720	E7808	1.76
CLEARSTONE			
110	13000	E7794	1.12
COLONIAL			
28	15500	E7820	1.76
31 & 32 D.C.	7200	E7821	1.09
32 D.C.	20	E7822	.69
	34.9	E7828	1.18
CROSLLEY			
Band Box 602	540	E7832	.65
	5000	E7833	.88
	140	E7834	.78
DAYFAN			
Navigator	3350	E7795	1.03
EDISON			
R1, RA & C2	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	.69
	2500	E7813	.59
	3500	E7814	.73
FANSTEEL			
(Balslev) B7 & B9	24000	E7815	1.91
ABC-135 & 139	10800	E7816	.93
C	4370	E7817	.73
A-B-6-135	9500	E7818	.88
FEDERAL			
79-00	2685	E7823	1.41
79-070	20000	E7824	1.32
79-080	4	E7825	.59
FREED-REISEMAN			
457	2350	E7826	.88
	4000	E7827	.88
	1750	E7828	.59
	3500	E7830	1.03
NR-80, NR-85	2350	E7831	.88
411	5750	E7832	1.03
411	7.5	E7836	.65
78-8	4000	E7837	2.20
FRESHMAN			
G	10550	E7839	1.26
N	18100	E7840	1.76
H	3300	E7841	1.32
H	20300	E7842	1.76
K	9700	E7843	1.03
Equipphase Model 665	11300	E7838	1.09
(G-60-8)			
GENERAL MOTORS			
5037	5185	E7845	1.32
GILFILLAN			
60	12000	E7846	1.94
100	5500	E7847	1.09
GREBE			
AC-6	7090	E7896	1.18
AC-8	9450	E7897	1.68
Synchrophase 7	5135	E7898	1.03
Synchrophase 7	12900	E7899	1.47
SR-4	2935.5	E7900	1.03
SR-4	18500	E7901	1.76
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	1.04
20	5750	E7853	.98
KING			
82	1480	E7854	.85
82	16000	E7855	.94

250° centigrade is not excessive. Built to withstand high humidity and heat conditions. Will serve with maximum efficiency in any receiver.

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	.78
96, 96A	3300	E7861	.95
96, 96A, 211, 211A	800	E7862	.59
20, 20A	5102	E7863	1.18
41, 42 (D.C.)	2395	E7864	.59
Series 5	2395	E7866	2.20
RCA VICTOR (RADIOLA)			
Electrola 10-70	5030	E7877	1.32
Radiola 17	8195	E7867	1.29
R1-4	4300	E7868	1.26
R2 & R3 (Tapped at 620 ohms)	4000	E7879	1.03
No. 104 Loudspeaker (Tapped at 2500 ohms)	4000	E7880	1.03
Radiola 41	11000	E7881	1.94
Radiola 41	25200	E7869	.91
Radiola 44, 46 & 47	8400	E7870	.47
Radiola 48	4865	E7871	1.62
Radiola 64	7780	E7872	1.32
Victor 9-54, Victor 9-18	4470	E7874	.97
Radiola 67, Radiola 64	400	E7875	1.18
Electrola P-352-997, 8-60	400	E7876	1.18
R-32, RE45, RE52	4325	E1540	.65
RE75, Radiola No. 105 LS	4000	E7882	1.18
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	E7895	1.03
659	10300	E7896	1.12
651	9720	E7897	1.12
SM-30	2300	E7891	.85
SONORA			
B-33	7275	E7884	1.06
S80	13200	E7885	1.47
SPLITDORF			
133C	11000	E7886	1.32
Abbey	13200	E7887	1.62
STEINITE			
40	20200	E7904	1.76
70-80 & 95	22440	E7905	1.76
STEWART-WARNER			
950 A.C.	15500	E7848	1.03
STROMBERG CARLSON			
403AA & 403B	3770	E7912	1.18
404 RA	5500	E7911	1.18
635 & 636	60	E7906	.82
638 D.C.	120	E7910	1.23
and	240	E7918	.79
635 D.C.	12	E7921	.79
638 A.C.	3000	E7919	1.41
641, 642	9750	E7920	1.18
652, 654	11000	E7916	1.18
846, 848	6380	E7915	1.32
	9200	E7917	1.68
	4880	E7922	.59
10, 11	750	E7907	1.41
	8860	E7908	1.42
	6370	E7923	.59
12, 14	11025	E7924	1.03
401	750	E7913	1.32
846 & 848	3780	E7914	1.32
	6880	E7916	1.32
TEMPLE			
8-60, 7-80, 8-90	6850	E7929	1.18
7-60, 7-80	21600	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	4865	E7888	1.18
ZAXNY GILL			
Vitaton 54	18685	E7889	1.62
ZENITH			
33, 33X, 34, 35	22700	E7937	2.20
35A, & ZE 10	6750	E7938	1.32
34P, 35P and ZE 11	6750		
32, 33, 34, 60, 61			
62, 602, 64, 67, 612	6000	E7939	1.18
672, ZE 70, ZE 702			
613, 612, 612			
Res. 53-57			
63-88, 35P, 35A	7250	E7940	1.26
P-37, 35AP, 35ZAP	35700	E7941	2.20

BAKELITE CONDENSERS—PARTS—ACCESSORIES

KNIGHT BAKELITE CONDENSERS



Molded in genuine bakelite. Knight mica condensers embody 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

No.	Mfd.
E7215	.000025
E7216	.00004
E7217	.00005
E7218	.0001
E7219	.00015
E7220	.0002
E7221	.00025
E7222	.0004
E7223	.0005
E7224	.0008
E7225	.001
NET EACH	
E7226	.0015
E7227	.002
E7228	.0025
E7229	.003
E7230	.004
PER DOZ.	
1.45	

LUG TYPE

No.	Mfd.	
E7231	.00005	
E7232	.0001	
E7233	.00025	NET,
E7234	.00025	9c
E7235	.0004	
E7236	.0005	
E7237	.0008	
E7238	.001	
E7239	.0015	
E7240	.002	14c
E7241	.0025	
E7242	.003	
E7243	.005	18c
E7244	.008	21c
E7245	.008	24c
E7246	.01	26c

INDUCTANCE SWITCHES



Compact. Well made. Nickel plated inductance switch with pointer knob. Wt. 6 oz.

No.	Point	List
E2041	5	44c
E2042	7	47c
E2033	9	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. 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 analyzers and testing equipment.



No. E1622.	4 prong plug.	
No. E1623.	5 prong plug.	23c
NET		
EACH		

WAFFER ADAPTERS

Four prong adapter with phone cord and plug, and 5 prong adapter with jack terminals for mike or phono.

No. E4266.	4 Prong.	
No. E4265.	5 Prong.	28c
List.	60c.	NET

54c

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

Ampion	T-36	Colonial	..D-8, T-8, D-20	High Freq. Lab.	..T-8
Audio	T-8	Columbia	Phon.	Howard	..T-8
Automatic	T-8	..S-18, D-8, D-20, T-8	Kennedy	..T-8, D-26	
Belmont	T-8	Crosley.	D-8, T-8, T-36, S-20, S-25, Q-8, Q-52	Spartan	..D-20
Browning	Q-8	Temple	..D-8, T-8	United Air	..D-20, T-8
Butch & Lane.	T-8	Wurlitzer	..T-8	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 \$20)

No.	Capacity	Mfd.	Type	YOUR PRICE	No.	Capacity	Mfd.	Type	YOUR PRICE
E1131	8	8	D	6	E1133	18	8	T	\$16
E1132	8	8	S	8	E1134	18	8	T	88
E1136	10	8	S10	60c	E1135	20	8	T	\$20
E1137	12	8	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	5-8	D	\$0.95	E1126	8-8-8-8	Q	\$2.40
E1128	8-8	T	1.35	E1130	9-9-18	T38	2.40
E1132	8-8	D26	1.25	E1129	5-5-8	T18	1.60
E1127	5-5-5	T	5	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. List. \$1.50. NET



No. E3391.	.006 Cap. Less Switch.	List. \$1.00.
NET		48c

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. Rejects all line radio into filter 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, detectaphones, stethoscopes, 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. YOUR SPECIAL PRICE... **23c**

I.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. YOUR PRICE... **74c**

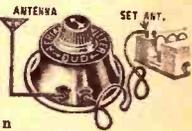


TWO PIECE PLUG
Well made detachable 2-piece socket plug. Will fit any standard receptacle. No. E2338. NET EACH... **4c**

ALLIED today is situated on the edge of Chicago's famous loop for the convenience of our customers. Bus lines, street railway, trains, 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. NET... **78c**



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.

100 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

No.	Mfd.	NET
E1786	.0001	9c
E1704	.01	9c
E1705	.02	12c
E1706	.05	13c
E1707	.1	13c
E1795	.1	15c
E1787	.25	17c
E1788	.3	18c
E1708	.5	23c
E1789	1-1	22c

600 Volts

No.	Mfd.	NET
E1709	.0001	
E1710	.00025	
E1711	.001	
E1712	.002	
E1713	.005	
E1714	.006	
E1715	.01	
E1716	.02	12c
E1790	.1	24c

10c Each

KNIGHT METAL CASED REPLACEMENT CONDENSERS



Conservative-ly 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	18c
E823	.1	300	20c
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	1-1-1	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	55c
E841	1-1-1	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	1-1-1	200	41c
E1819	.25-.25	400	47c
E1820	.5-.5	400	58c
E1821	1-1	400	36c

SPRAGUE FILTER BLOCK REPLACEMENT CONDENSERS



Sprague electrolytic condensers 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	66c
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
E6580	.0001	\$0.25	
E6581	.00025	.25	
E6582	.0005	.25	
E6583	.001	.25	15c
E6584	.002	.25	
E6585	.0025	.25	
E6586	.005	.25	
E6587	.006	.30	
E6588	.01	.30	18c
E6589	.02	.30	
E6590	.05	.30	
E6571	.1	.40	24c
E6572	.25	.50	28c

SPARTON REPLACEMENT TUBULAR CONDENSERS

Sparton 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 1/4 in.

For all by-pass requirements. Wt. 12 oz. each. No. E1798. .25 mfd. List Price, each, \$1.65.

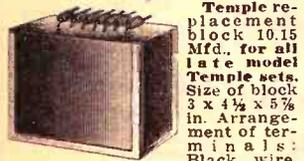
YOUR PRICE **35c**

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	54c
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: Blue wire, 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 8-60, 8-80 and 8-90. Shpg. wt., 5 lbs.

No. E5396. **YOUR PRICE** **\$2.75**

Victor Condenser Block



Will also efficiently serve with any set or amplifier using 245 or 250 p.p.t. o.d. 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. **YOUR NET PRICE** **90c**

Aerovox "A" Condensers

For use in "A" Eliminators and across field winding of dynamic speakers for filtering hum. Maximum working voltage 200 volts D.C. must not be exceeded. Of Aerovox quality construction. Shpg. wt., 2 lbs.

No.	Cap. Mfd.	List	NET
E1201	1500	\$3.50	\$2.06
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. **YOUR PRICE** **13c**

AEROVOX HI-FARAD DRY ELECTROLYTIC CONDENSERS

Aerovox dry electrolytics are highly efficient and universally applicable. Their dry characteristic make it possible to mount them in any position. They are stable in operation, unaffected by moisture, high in filtering efficiency, and operate at low temperatures. Self-healing and surge-proof characteristics insure long life. Modern, compact design. Extremely economical. With mounting rings. All types are standard in size, enabling easy change in standard radios to Hi-Farad condensers.

Universal Mounting 500 Volt D. C. Peak Voltage

No.	Section	Total	List	YOUR
	Mfd.	Mfd.	Price	PRICE
E885	1	1	\$1.00	\$0.59
E886	2	2	1.20	.72
E887	4	4	1.40	.84
E890	6	6	1.60	.94
E891	8	8	1.70	1.00
E892	8-8	16	3.25	1.91
E893	8-8-8	24	4.50	2.65
E894	8-8-8-8	32	6.00	3.53
E894	3-8-8	14	2.00	1.23
E845	2-8-8	18	4.75	2.79
E846	2-8-16	26	5.00	2.94
E847	10	10	2.10	1.23
E848	20	20	3.50	2.06
E849	30	30	5.00	2.94

25 Volt D. C.

E895	10	10	.90	.59
E896	25	25	1.05	.62
E897	50	50	1.15	.68

12 Volt D. C.

E898	1,500	1,500	3.50	2.06
E899	2,000	2,000	4.00	2.35

Screw Mounting

500 Volt D. C.

E920	4	4	1.40	.82
E921	6	6	1.60	.94
E922	8	8	1.70	1.00
E923	10	10	2.10	1.23

IN CARDBOARD CONTAINERS

500 Volts Peak

No.	Mfd.	List	NET
E924	1	\$0.80	47c
E925	2	.95	56c
E926	4	1.10	65c
E927	5	1.20	71c
E928	6	1.30	76c
E929	8	1.45	85c

Aerovox Cartridge Condensers



Especially desirable for use where high grade units are required at low cost. Compact, non-inductively wound and sealed in insulating tubes with wire lead terminals.

200 VOLTS

No.	Cap.	NET. EACH
E935	.006	
E936	.01	
E937	.015	12c
E938	.02	
E939	.03	
E940	.05	14c
E941	.1	16c
E942	.25	21c
E943	.5	32c
E944	1-1	29c

400 VOLTS

E1333	.006	
E1334	.01	
E1335	.015	14c
E1336	.02	
E1337	.03	
E1338	.05	16c
E1339	.1	19c
E1340	.25	29c
E1341	1-1	42c

Aerovox By-Pass Condensers



Non-inductively wound and sealed in metal containers. Ideal for use in all radio and audio by-pass circuits.

200 VOLTS D. C.

No.	Mfd.	NET
E1200	.05	32c
E1204	.1	32c
E1205	.25	35c
E1206	.5	41c
E1207	1.0	53c
E1208	2.0	58c
E1199	4.0	\$1.99

400 VOLTS D. C.

E1198	.05	38c
E1209	.1	38c
E1210	.25	44c
E1211	.5	56c
E1212	1.0	79c
E1213	2.0	\$1.32

FREE BULLETIN

On request we will put you on mailing list to receive the valuable Aerovox Research Worker. It is full of useful data on the use of condensers and resistors.

AEROVOX METAL CASE BY-PASS CONDENSERS

Non-inductive condensers, hermetically sealed in stamped metal containers. Terminals are brought out through insulating strips, centered in large holes in the case to prevent leakage and short circuits to the can. Ideal for all by-pass circuits and for resistance and impedance coupled amplifiers.

TYPE 60

Very compact. Dimensions $2\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$ high. Make neat assemblies.

No.	Mfd.	Volts	NET	No.	Mfd.	Volts	NET
E1300	.05	200	25c	E1342	.05	300	27c
E1301	.1	200	25c	E1343	.1	300	27c
E1302	.25	200	28c	E1344	.25	300	35c
E1303	.5	200	34c	E1345	1-1	300	41c
E1304	1-1	200	38c	E1346	.05	400	29c
E1305	.25-25	200	47c	E1347	.1	400	29c
E1306	1-1-1	200	53c	E1348	.25	400	38c
				E1349	1-1	400	44c



Flat type, stamped metal case Condensers. Dimensions — $2\frac{1}{2} \times 1\frac{1}{2} \times 1$. Extensively used. Compact, easy mounting.

TYPE 61

No.	Mfd.	Volts	NET	No.	Mfd.	Volts	NET
E1307			50c	E1312	.5-5	300	79c
E1308	.5-5	200	62c	E1313	.5	400	50c
E1309	.5	300	47c	E1314	.25-25	400	65c
E1310	1	300	71c	E1315	1-1-1	400	71c
E1311	.25-25	300	59c				

AEROVOX MICA FIXED CONDENSERS



Moulded in bakelite which seals and protects condensers against extreme temperature, moisture or chemical action. Plates are tin-foil and the condenser element is thoroughly impregnated. Very compact.

No.	Mfd.	NET
E1261	.00005	EACH
E1252	.000075	
E1253	.0001	12c
E1254	.0002	
E1255	.00025	15c
E1250	.00037	
E1256	.0005	21c
E1257	.001	
E1258	.0015	21c
E1259	.002	
E1260	.0025	
E1249	.003	24c

AEROVOX "FIG-TAIL" MICA CONDENSERS



A midjet mica condenser provided with wire leads, ideal in constructions in which space is an important factor.

No.	Mfd.	NET
E1320	.00004	
E1321	.00005	
E1322	.000075	12c
E1323	.0001	
E1324	.00015	15c
E1325	.0002	
E1326	.00025	21c
E1327	.00037	
E1328	.0005	
E1329	.001	
E1330	.0015	
E1331	.002	

AEROVOX FIXED HIGH VOLTAGE CONDENSERS

Aerovox type 1450, moulded in bakelite. Will withstand reverse voltages of 1000 volts D.C.

No.	Mfd.	NET
E1350	.00004	
E1351	.00005	
E1352	.00007	
E1353	.00075	18c
E1354	.0001	
E1355	.00015	
E1356	.0002	21c
E1357	.00025	
E1358	.00037	
E1359	.0005	
E1360	.001	
E1361	.0015	26c
E1362	.002	
E1363	.0025	
E1364	.003	
E1365	.004	
E1366	.005	
E1367	.006	32c
E1368	.0075	38c
E1369	.01	44c
E1370	.015	53c
E1371	.02	62c
E1372	.025	71c
E1373	.03	\$1.18
E1374	.035	1.38
E1375	.04	1.59

FLECHTHEIM

Heavy Duty Filter Condensers

Compact, high voltage condensers for heavy duty amplifiers using type '50, '10, '45, '47 and other similar heavy duty tubes. All types except for 2 and 4 mfd. are 2" high, the others are 4 1/2" and 2 1/2" wide.



No.	Mfd.	List	NET
E3370	.05	\$1.00	\$0.54
E3371	1	1.10	.60
E3372	.25	1.20	.65
E3373	.5	1.30	.70
E3374	1.0	1.75	.90
E3375	2.0	2.75	1.50
E3376	4.0	4.50	2.43

1000 Volts D. C.

Conservatively rated at 1000 volts D.C., 600 volts A.C. High insulation resistance.

No.	Mfd.	List	NET
E3370	.05	\$1.00	\$0.54
E3371	1	1.10	.60
E3372	.25	1.20	.65
E3373	.5	1.30	.70
E3374	1.0	1.75	.90
E3375	2.0	2.75	1.50
E3376	4.0	4.50	2.43

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 1/2 in. wide. With mounting straps. Average shpg. wt., 1 1/4 lbs.

SINGLE SECTIONS

No.	Mfd. Volts	NET	No.	Mfd. Volts	NET
E7275.	6 500	\$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	.35	E7285.	100 25	.45
E7274.	8 350	.38	E7286.	100 25	.42

MULTIPLE SECTIONS

No.	Mfd. Volts	NET	No.	Mfd. Volts	NET
E7287.	4-8 500	\$0.68	E7290.	6-8 500	\$1.00
E7288.	4-8 500	.80	E7291.	8-8 500	1.05
E7289.	4-8 500	.90	E7293.	4-4 500	1.15
E7290.	6-8 500	.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	\$0.95
E7330.	2-4 500	.73	E7335.	6 500	.95
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 ring, 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
Knight horizontal type capacitors, housed in cardboard containers. Supplied with mounting straps. Dimensions 2 1/2" x 3 1/2" in. 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	4 170	33c
E7301	10 50 34c	
E7302	10 25 29c	
E7303	25 25 35c	

Knigh Electrolytics

Multiple Sections Rectangular Metal Cans



Knights electrolytics mounted in rectangular metal cans. Sections are thoroughly insulated from each other and from the container. Separate terminals for each section. 80 volts D.C. peak voltage. 4% in. high, 1 1/2 in. wide. Average shpg. wt., 2 lbs.

No.	Mfd.	NET
E7304.	4-4	\$0.80
E7305.	4-4	.98
E7306.	4-8	.98
E7307.	6-8	1.05
E7308.	6-8	1.10
E7309.	8-8	1.20
E7310.	4-4	1.32
E7311.	6-6	1.40
E7312.	8-8	1.55

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, offering high capacity in small space at low cost. Measure 2 1/2" long without leads.

No.	Mfd. Volts	NET	No.	Mfd. Volts	NET
E7350.	6 * 25	\$0.22	E7356.	5 110	\$0.50
E7351.	10 25	.24	E7357.	10 110	.60
E7352.	25 25	.28	E7358.	1 250	.24
E7353.	25 25	.28	E7359.	2 250	.28
E7354.	10 50	.27	E7360.	4 250	.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	1.65
(25 Volt Type)				
E1124.	D8	8-8	18	.95
E1125.	T8	8-8-8	24	1.35
E1126.	Q8	8-8-8-8	32	2.40
E1128.	D6	6-18	24	1.65
E1131.	Q6	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, single hole mounting, with threaded stud of 3/8" diam. Must be used with vent at the top. E2 is always negative. Low below mounting stud is positive connection. Shpg. wt., 1 1/2 lbs. each.

No.	Mfd.	Volts	NET
E7361.	6	500	\$0.80
E7362.	6	500	.87
E7363.	8	500	.95
E7364.	4	450	.75
E7365.	8	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 in every type of set. Rated 8 mfd. at 430 volts D.C. No. E8500. List Price, \$2.50. **68c** YOUR PRICE

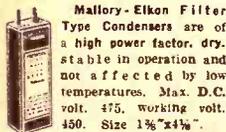


STANDARD REPLACEMENT CONDENSERS

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 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	86c

Metal Can Types

For replacement of the round electrolytic type condenser. A dry, 2 1/2" x 1 1/2" 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	\$1.20	\$1.00
E2685	5	1.70	1.00
(screw)			
E2686	16	3.25	1.91
(2 anode)			
E2687	24	4.50	2.65
(3 anode)			

BY-PASS TYPES



Elkon 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 1/8 in. x 1 1/8 in.

No.	Mfd.	Volts	List	NET
E2688	1/4	475	\$0.60	35c
E2685	3/4	475	.70	41c
E2690	1	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	150	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		
E6520	.0001		
E6520	.00015	\$0.40	24c
E6511	.00025		
E6512	.0005		
E6517	.001		
E6518	.002	.50	29c
E6519	.004		
E6519	.004	.50	35c
E6514	.005	.70	41c
E6515	.008	.85	50c
E6523	.008	1.00	69c
E6524	.01	1.15	68c
E6524	.015	1.25	68c

RESISTOR CLIPS

Resistor clips for above. No. E6516. List. 10c. NET. PER PAIR

TOBE "B" BLOCK CONDENSERS

R210. 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 by-pass purposes. Serves in many standard A. 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 1/2 Mfd.; Blue 1/2 Mfd.; Blue 1/2 Mfd.; Red 2 Mfd.; Red 2 Mfd. YOUR PRICE \$7.8c

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.—300 volts; 2.5 mfd.—300 volts; 1.5 mfd.—600 volts; 2.5 mfd.—800 volts.



FOR COLUMBIA KNIGHT S.G. 8

This condenser block will replace the original in Knight-Columbia S.G. 8, 8.G. 10, 6-7 and 8-9 receivers.
No. E3444. YOUR PRICE \$4.12

BY-PASS CONDENSERS NO. 212 BIAS

A .3 mfd. bias condenser. Consists of dual 200 volt condenser 1-2 mfd. sections. Can be common.
No. E2220. YOUR PRICE 35c

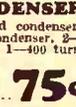


No. 213 BIAS

A .3 mfd. bias by-pass condenser. Consists of —1 mfd. 300 volt condenser, and 1—2 mfd. 300 volt condenser.
No. E2221. YOUR PRICE 45c

No. 214 COIL and CONDENSER

A .102 by-pass choke coil and condenser. Consists of 1—1 mfd. 300 volt condenser, 2—001 mfd. 300 volt condenser and 1—400 turn detector filter and choke, No. 38 wire.
No. E2222. YOUR PRICE 75c



SPRAGUE 600 VOLT 1 MFD. CONDENSER

For general replacement purposes. Especially suitable for Knight-Columbia A.C. 5 receivers.
No. E2223. YOUR PRICE \$1.35



THORDARSON POWER COMPACTS

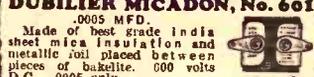
R-171
For use in plate supply devices and power amplifiers using single or push-pull 171 power tubes and a single Raytheon BH tube.
No. E7041. NET \$3.45

TYPE R-250
For 250 type rectifier. Operates power amplifiers using one 171 tube in output. Wt., 9 lbs.
No. E7042. NET \$3.25

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., 11 lbs.
No. E7043. NET \$3.85

DUBILIER MICADON, No. 601

Made of best grade India sheet mica insulation and metallic foil placed between pieces of bakelite. 000 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
P7068	.1	8c
P7067	.25	15c
P7066	.5	20c
P7065	1.0	30c
P7064	2.0	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)	0c
P3903-S	.015	2c
P3793-B	.015 (Twin)	55c
P3793-M	.015 (Twin)	55c
P3793-E	.015 (Twin)	55c
P3615-A	.05 (Twin)	25c
P3615-AJ	.05 (Twin)	25c
P4989-B	.09	30c
P4989-G	.09	30c
P4989-G	.09 (Twin)	30c
P6287-B	.15	25c
P4989-M	.15	25c

MICA CONDENSERS

Philco No.	Capacity	NET
P4997	.00005	1c
P4999	.00025	1c
P3774	.0005	5c
P3619	.0011	2c
P3082	.0025	2c
P5120	.0041	2c
P3910	.0005	2c
P3910	.00125	2c
P5863	.0007	2c
P6021	.0008	2c
P6275	.001	2c
P6275	.00125	2c
P7007	.0014	2c
P7139	.0015	5c
P6827	.00163	5c
P6827	.0018	5c
P6853	.002	5c
P7006	.0025	5c
P6827	.003	5c
P6981	.006	24c

QUALITY CONDENSER REPLACEMENTS



Exact capacities and voltages are reproduced in these replacement condensers for popular receivers. Made of the finest materials and accurately constructed. The finished product is durable and designed to give continuous trouble-free service. Reasonably priced. Invaluable for every service requirement. Condensers duplicate exact capacity of original condenser, resulting in simple accurate installation.

If the condenser needed is not listed, send complete description of the receiver, list tubes used, or send in the old unit as a sample, and we will make shipment of the proper replacement within five days. Deposit of 25% must accompany all orders for unlisted condensers. Price will be in proportion to any similar unit listed. Explanation of symbols used below are as indicated: By Pass (B), Electrolytic (E), Flexible Leads (L), Lug Terminals (T), Filter (F), Coupling (C).



No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
ATWATER KENT					
E3400	237	5	F	L 7	\$5.29
E3401		.25	B	L 2	.79
E3402	40, 42, 46, 52, 37, 38, 39	1/4 - 1/4 - 1/4	F	L 3	6.87
E3403	255	6.7	B	T 7	6.61
E3404		.25	B	T 2	.67
E3405		.35	B	T 4	.93
E3406		1/4 - 1/4 - 15-.05	F	T 4	4.93
E3407		1.5	F	L 8	5.29
E3408		4.5	F	L 9	4.64
E3409		1/4 - 1/4 - 17-.05	F	T 1	7.93
E3410	235	1	B	T 1	6.79
E3411	255	.2	B	T 4	.79

No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
BRUNSWICK					
E3412	111, 12, 16, 33	5	L	L 1	1.18
E3413		6.25	Block	L 8	3.35
E3414			(E)	T 1	1.68
E3415		7.5	F	T 1	1.91
E3416	17, 24, 25	4.5	F	T 1	1.62
E3417		2.58	Block	L 10	3.50
E3418		8	(E)	T 1	1.50

No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
CROSLY					
E3419		1	B	T 2	.48
E3420		1/2 - 1/2	B	T 3	.55
E3421	W4919	.5	B	T 2	.40
E3422	W4968	.5	B	T 2	.40
E3423	W4973	.1	B	T 2	.53
E3424	W5943	.1	B	T 2	.45
E3425	Jewel Box	5-5	B	T 4	.79
E3426	Jewel Box	1-1	B	T 4	.79
E3427		1-1	B	T 2	.58
E3428	255-56	1-1	B	T 3	.71
E3429		1-5-1	B	T 3	.53
E3430	54	5-1	B	T 2	.79
E3431	54	1-5-1	B	T 3	.53
E3432		.5	B	T 2	.40
E3433		1-1	B	T 2	.31
E3434		1	B	T 2	.40
E3435		1	B	T 2	.67
E3436		.06-.06	B	T 3	.53
E3437		5-5	B	T 3	.67
E3438		1-1	B	T 3	.53
E3439		5-5	B	T 3	.53
E3440		01-01-01-01	B	T 4	.4
E3441	W21296	.1	B	T 2	.31
E3442	W20448	.1	B	T 2	.31
E3443		1/4 - 1/2 - 1/4	B	T 4	.79

No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
COLUMBIA					
E3444	SG 8	7.9	F	T 8	4.12
E3445		1-2	B	T 4	.35
E3446		1-2	B	T 4	.35
E3447		1-.001-.001	B	L 4	.75
E3448	AC 5	1	F	T 2	1.35
E3449		5-5	F	T 3	.58

No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
EXIDE ELIMINATOR					
E3450	A & B	13.	F	L 8	3.85
E3451	B	13.	F	L 8	3.85

No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
FRESHMAN					
E3452	QD	7.4	F	T 8	2.95
E3453	H 9	8.	F	L 9	9.30
E3454	N	11.5	F	L 7	6.45

No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
KNIGHT					
E3455	SG 8	7.9	F	T 8	4.12
E3456		1-2	B	T 4	.35
E3457		1-2	B	T 4	.35
E3458		1-.001-.001	B	L 4	.75
E3459	AC 5	1	F	T 2	1.35
E3460		1-5-5	B	T 3	.58
E3461	Super 7 & 9	8.	B	T 1	.95
E3462		1	B	T 1	.75
E3463		2.35	B	T 1	1.18
E3464	Super 9	12.	B	T 1	1.18

No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
MAJESTIC					
E3461	270 (Power Pack)	9.	F	T 5	6.35
E3462	270	9.	FE	T 5	4.75
E3463	172	9.	F	T 7	6.35
E3464	270	9.	FE	T 7	4.75
E3465	290	7.5	F	T 6	6.67
E3466	290	5	B	T 2	.67
E3467	290B	7.	F	T 5	6.35
E3468	290	7.	FE	T 6	6.14
E3469	290B (MJ90B-BE)	4.75	F	T 5	4.75
E3470	180	9.	F	T 6	5.29
E3471	180	9.	FE	T 6	5.29
E3472		1/4 - 1/4	B	T 3	.79

No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
180 MAJESTIC					
E3473		1/2 - 1/2	B	T 2	.79
E3474		13.	B	T 7	6.35
E3475		10.	F	T 5	9.02
E3476	270-B	10.	F	T 6	6.29
E3477		11.	F	T 6	6.55
E3478	250	7.	F	T 5	5.29
E3479		1.5	B	L 6	.75
E3480		6.57	B	L 6	6.35
E3481	Majestic Series 20	10.16	T10	L 6	6.35
E3482	Model 21-22-32	9.	F	T 6	7.94
E3483		13.	F	T 5	6.61

No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
R.C.A. AND VICTOR					
E3484	Radiola 220	9.	F	T 7	4.25
E3485	218, 51	5-5-6-5	B	T 5	1.35
E3487	104 Speaker	4.	B	T 5	1.89
E3488	218, 17, 41, 50, 60, 62	1	B	T 5	3.45
E3489	218, 51	1/2 - 1-1	B	L 2	.85
E3490	Radiola 2105	21.	B	T 2	2.45
E3491	AP 947	2.	B	T 2	1.01
E3492	AP 947	7.	F	T 2	4.00
E3493	R 32, RE 45, R 52	16.	F	T 5	10.24

No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
SPARTAN					
E3494	AC62, AC7, AC63	9.	F	L 7	7.14
E3495	AC69A, 79A, 89.				
E3496	AC 5	7.1	F	L 8	5.56
E3497	AC 6	10.	F	L 5	5.56
E3498	1109	9.	F	L 7	7.14
E3499		9.	F	L 6	6.61
E3500		5	F	L 7	5.56
E3501	AC 110	10.	F	L 6	7.4
E3502		1.25	B	L 7	.34
E3503		1-1	B	T 2	.28
E3504	2637-589-610	2	Buffer	L 3	1.06
E3505	2931	2	B	L 2	1.31
E3506	2930	6.1	F	L 5	5.29
E3507	289A	8.05	F	L 5	9.26
E3508	JR, 410	18.8	F	L 3	3.05
E3509	2301	6.	F	L 3	6.61
E3510		5	B	L 3	.29

No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
TEMPLE					
E5396	All late sets	10.15	Block	L 7	2.75

No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
U. S. RADIO and TELEVISION-APEX					
E3511	238 Apex	7.5	F	T 8	3.51
E3512	237 Apex	5.5	F	T 8	2.65
E3513	241	4.5	F	L 5	3.51
E3514	240	1.3	B	T 3	1.32
E3515	244	5.6	F	L 5	3.51
E3516	6 248	5	F	L 5	3.94
E3517		.5	B	T 1	.45
E3518	241, 46	1	B	T 2	.22
E3519		2	B	T 1	.36
E3520		1-1	B	T 2	.42

No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
VICTOR					
E5397	R-32, R-52, RE 45, RE-75	10.75	Cond. Block	T 5	9.0

No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
WILLARD ELIMINATOR					
E3521	A & B	13.	F	L 8	3.85
E3522	B	13.	F	L 8	3.85

No.	Mfg. Models	Cap. Mfd.	By Pass (B) Filters (F)	Term. (T) Leads (L)	NET
ZENITH					
E3523	ZE-17	10.	F	L 4	4.76
E3524	ZE-10	7.5	F	L 7	3.51
E3525	ZE-8	9.	F	L 7	5.82
E3526	ZE-8	13.	F	T 3	1.82
E3527	ZE-9	16.	F	L 6	6.35
E3528	ZE-6	16.25	F	L 8	7.94
E3529	ZE-5	8.	F	L 9	3.51
E3530	ZE-11, 12, 14.	11.1	F	L 8	8.92
E3531		10.5	F	L 6	4.43
E3532	ZE-9	20.	F	L 6	3.97
E3533	270	.25	B	L 2	.40
E3534		.03	Audio Tuning	L 2	.29
E3535		1-1	B	L 4	1.20
E3536		2-2-2-2	B	L 5	.84
E3537		.2	F	L 3	.66
E3538		.03	F	L 3	.22
E3539		.05	C	L 2	.23
E3540		.5	C	L 3	.40
E3541		.26	C	L 2	.38
E3542	112	1.	B	L 2	.68
E3543	115	2.	F	L 3	.93
E3544		1.5	B	L 2	.43
E3545		1.	B	T 2	.68
E3546		6.	F	L 4	3.44

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 HOAWK		
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	E6118	4.12
82, 85	E6117	4.12
84	E6118	4.12
80, 83	E6119	4.12
87, 89, 898	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, 18, 18A, 33, 33A	E6126	4.12
10	E6127	2.79
COLUMBIA		
S.G. 5	E6128	2.85
S.G. 8	E6129	3.95
S.G. 9	E6130	4.54
CROSLLEY		
40-S, 41-S, 42-S, 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		
QD-16S	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
Supernet 7	E6171	2.94
Supernet 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	5.55
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
65	E6151	3.59
76, 77	E6152	3.59
82, 86	E6153	3.47
87	E6154	3.59
95, 99, 206	E6155	4.20
111, 211, 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		
80, 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	E6164	13.23
66	E6165	3.88
RCA VICTOR		
RE-75, R-32		
R-52, RE-45	E6102	4.03
RE-39, RE-34, 35, 57	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	6.78
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	4.85
ZENITH		
50, 60, 70	E6188	4.35
10, 11, 12	E6189	4.41



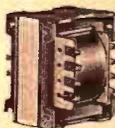
Don't take chances in transformer replacements. Use Exact Duplicates to insure renewal of the original performance of the set.

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.

These quality transformers are also suitable because of their sturdy construction for general replacement work on all types of sets. Coils are of high grade material, the insulation of the best and lamination steel of fine quality.



HORIZONTAL MOUNTING

For 5 or 6 '24s, '27s, '35s, 2 '45s or '47s and 1 '80 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

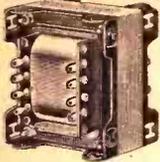
Advance Electric
Atkinson Radio
Automatic Radio
Nathaniel Baldwin
Brown & Mahart
Cardinal Radio
Cartier Radio Lab.
Champion Radio
Crosley Radio
Echobone Radio Mfg.
Federated Purchaser
Flint Radio
J. French & Sons
Gilbert, R. W.
Gray & Danielson
Grinn-Smith Mfg.

Hyatt Elec.
Jackson Bell
Jewell Mfg.
Keller-Fuller
Master Radio
Mission Bell
National Transformer
Pierce Alro
Plymouth Radio
Renner
Simplex Radio
Steinlite
Transformer Corp. of Amer.
Traylor
U. S. 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 60 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 6-220's, 1-217, 2-171's, 1-250

For sets or power packs using up to the number of tubes specified above. Secondary voltages: 370 volts C.T.-70 M.A.; 5 volts C.T. 2 amp. for 1-280; 2.5 volts C.T.-1.75 amp. for 1-227, 5 volts C.T. 2 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. Dayton A.C. 83	Grebe Synchrophase 7AC
Acme A.C. 7	Howard 8 Green Diamond
Amrad A.C. 7	King J. H.
Arbophone 45, 55	Kolster 6K A.C. 7 AC. K.
Atwater-Kent 30, 37, 38, 40, 42, 43, 44, 45, 52	10-43 12-43
Bremner-Tully EP-40, 6-41, 7-70, 7-71	Philco K 108
Brunswick 5KR, 5KRO, 2KR0, 3KR0, 5KR6, R-1	HCA Victor 18, 17, 7026 Radi- ola 17, 18, 33, 50, 51
Columbia Phono. 41A, C2, C4, 9KR	Splitdorf Abbey 171
Crosley 608, 704A, 704B, 706, 610, 600A.C., 41A, 42AC	Standard Steinitz 261, 262
Freshman-G. General Motors 5077, 5080	U.S. Radio & Telco. Zenith-11E, 11E

For 5-227's or 224's, 1-245 or 247, 1-288

For sets or 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 1-280; 2.5 volts C.T.-1.5 amp. for 1-245 or 247; 2.5 volts C.T.-8.75 amp. for 5-227's or 224's. Size 3 1/2 x 3 1/2 x 3 1/2". Shpg. wt., 8 lbs.

MANUFACTURERS AND MODELS

Advanche—Falc 77, 88	National Trans. Balkite
Atchison—12 Automatic Tom Thumb	Patterson 5-68, 7-69
Baldwin Baldwinette	Renler Cameo 14
Crosley—Buddy Echophone Radio Echophone	Simplex
Federated Purchase Melorad Catho- dral tone	Steinitz 430
Flint—All Hyatt—AC-7	Sterling F-1—60
Jackson Bell—62 Jewell—M	Traylor B
Master 424	U.S. Rad & Telev. Apx 27
No. E6202. YOUR PRICE	Waltham 31
	Zaney Gill Corp. And Others.

For 7-127's or 124's, 1-245's or 247's, 1-280

For sets or power packs using up to the number of tubes specified above. Secondary voltages: 700 volts C.T.-110 M.A.; 5 volts C.T.-2 amp. for 1-280; 2.5 volts C.T.-3 amp. for 2-245's or 247's; 2.5 volt C.T.-12.25 amp. for 7-127's or 124's. Size 4 1/2 x 3 1/2 x 4 1/2". Shpg. wt., 10 lbs.

MANUFACTURERS AND MODELS

All American—96 D Am. Bosch 48, 58, 60	32 AC, 41 AC General Motors-A (Grigsby-Grunow Magnestic (60-25V) 100, (60-25V) 90B, (60-25V) 100B.
Amrad—31 Atwater Kent 55, 55C	41A, 42AC H.G.A. Kellogg—523-526 King—King Monarch Kolster—630—6 K-43 National Carbon Series 40
Balkite—C.F. Browning Drake 59, 70, 71	R.C.A. Victor Radiola 47, 65 Silver-Marshall 33A, 34A, 35A, 36A
Brunswick 81-82 (enamstone) 83-81, 85, 22, 12- SG, 3-14, 821-B.T. S81-882	Stewart-Warner 950 A.C., 909 Stromberg-Carlson 641, 642 Temple 8-81, 8-90, 8-91 United Air Cleaner 660, 665, 444
Colonia Radio 32 AC	U.S. Radio & Telco. Apx—48, 41, 42, 46, 47
Crosley 308, 318, 328, 348, 408, 418, 428, 828	Freed Eisman 908 A.C. NR 95 AC
F.A.D. Andrea (Fada)—25, 35, 40, 41, 42, 44, 46, 47	Freshman—41, 31S, 32S, 33S, AC, 31-
No. E6203. YOUR PRICE	

No. E6201. YOUR PRICE **\$2.38**

No. E6202. YOUR PRICE **\$1.95**

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: 600 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 amp. for 1-280 or 2 1/2 volts 3 amp. for 1-282. Mounting area 3x2 1/2". Shpg. wt., 5 lbs.

No. E6204. P-988, 280 rectifier.
No. E6205. P-1381, 282 rectifier.
List Price, \$2.90. YOUR PRICE, EACH

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 1/2 x 3 1/2". Shpg. wt., 5 lbs.

No. E6206. P-953, 280 rectifier.
No. E6207. P-1283, 282 rectifier.
List Price, \$4.15. YOUR PRICE, EACH

5 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. Secondaries: 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-953, 280 rectifier.
No. E6209. P-1283, 282 rectifier.
List Price, \$5.50. YOUR PRICE, EACH

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: 100 volts C.T.-110 M.A. Secondary: 5 volts, 3 amps. for 1-280 or 2.5 volts, 3 amps. for 1-282; 2.5 volts C.T. 3 amp. 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

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, 3/4" x 3/4". Iron, 17 1/2" x 18 1/2". Depth, 3/4". 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 SUPPLY TRANSFORMER

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. 246 push-pull amplifier at maximum output. Size, 3 1/2 x 3 1/2 x 4 1/2" high. Shpg. wt., 6 lbs.

No. E4385. List Price, \$8.75. YOUR PRICE **\$5.15**

FILAMENT TRANSFORMERS

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 6-1/2 amp. heater filaments or 14-1 amp. heater filaments. Size, 3 1/2 x 3 1/2 x 4 1/2" high.

No. E4386. 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 467-200 is a general purpose choke but particularly applicable as second section, "B" Amplifier choke. Res. 190 ohms; nominal inductance, 10 henries. 150 M.A. Shpg. wt., 3 lbs. each.

No. E4387. 466-190.
No. E4388. 467-200.
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 1/2 x 2 1/2 x 3 1/2" high. Shpg. wt., 3 lbs.

No. E4389. List Price, \$6.25. YOUR PRICE **\$3.65**

OUTPUT TRANSFORMER, 467-281

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 steel and size as 467-271. Shpg. wt., 3 lbs.

No. E4390. List Price, \$6.25. YOUR PRICE **\$3.65**

MICROPHONE TRANSFORMERS

Jefferson type 467-281 is a compact coupling transformer for single button carbon microphones. 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 467-282 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.

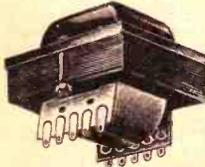
No. E4396. List Price, \$3.75. YOUR PRICE **\$2.20**

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 "Thru 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 midgeet type radios employing 3—224's, 227's, 235's, one pentode 247 and one 280. 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. Measures 3 3/4 x 2 1/2 in. Shpg. wt., 5 lbs.
List Price, \$5.00. **\$1.55**
YOUR PRICE.....

Permits the use of four 224's, 227's or 235's, one pentode tube and 1—280. Specifications—Primary: 115 V. 60 cycle. Secondary: 483 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 4 in. Shpg. wt., 6 lbs.
No. E7060. List Price, \$6.00. **\$1.88**
YOUR PRICE.....

MODEL T-4900

Built for use with receivers employing three 224's, 227's or 235's, two Pentode 247's and 1—280 tube. Specifications—Primary 115 V. 60 cycles. Secondary: 2.5 V. at 12 amps. C.T.: 5 V. at 2 amps.; and 760 V. C.T. at 80 M.A. Shpg. wt., 7 lbs.
No. E7062. List Price, \$7.00. **\$2.25**
YOUR PRICE.....

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 at 4 amps. for 5—224's, 235'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 3 3/4 in. high. Shpg. wt., 7 lbs.
No. E7022. List Price, \$6.00. **\$3.53**
YOUR PRICE.....



MODEL T-3351

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 at 600 V. 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, \$6.00. **\$2.94**
YOUR PRICE.....



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 amp. for 1—227; 1.5 V. at 1 amp. for 1—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, \$6.00. **\$2.94**
YOUR PRICE.....

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; 2.5 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 x 4 1/2 in. high. Shpg. wt., 6 1/2 lbs.
No. E7063. List Price, \$7.00. **\$4.12**
YOUR PRICE.....

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—400 V. D.C.—200 M.A.
No. E7023. List Price, \$8.00. **\$4.70**
YOUR PRICE.....

T-5338 Filament Transformer—2.5 V. 3 amp.; 2.5 V. C.T. 9 amp.; 2.5 V. C.T. 3.5 amp. Wt., 4 lbs.
No. E7024. List Price, \$6.00. **\$3.53**
YOUR PRICE.....

T-2353-A Swinging Filter Choke. 4 lbs.
No. E7025. List Price, \$5.00. **\$2.94**
YOUR PRICE.....

T-5289 Input Transformer—48 to 46's Class "B" Wt., 4 lbs.
No. E7026. List Price, \$5.00. **\$2.94**
YOUR PRICE.....

T-5339 Output 46's Class "B" to 500 ohms. Wt., 4 1/2 lbs.
No. E7027. List Price, \$5.00. **\$2.94**
YOUR PRICE.....

T-5356 Output 48's Class "B" to 8 or 4 ohms. Wt., 4 1/2 lbs.
No. E7028. List Price, \$5.00. **\$2.94**
YOUR PRICE.....

T-5291 Output 46's Class "B" to 10,000 or 5,000 ohms.
No. E7030. List Price, \$5.00. **\$2.94**
YOUR PRICE.....

T-5381 Line transformer, 500 to 8 or 4 ohms. Wt., 4 1/2 lbs.
No. E7031. List Price, \$4.50. **\$2.65**
YOUR PRICE.....

T-3020 Double button microphone to grid. Turn ratio 1-22.
No. E7010. List Price, \$5.00. **\$2.94**
YOUR PRICE.....

T-2876 Coupling transformer, 210 to 2,000 ohms. Wt., 4 1/2 lbs.
No. E7032. List Price, \$3.00. **\$1.76**
YOUR PRICE.....

R-300 Audio transformer. 3-1 ratio. Wt., 2 1/2 lbs.
No. E7021. List Price, \$4.00. **\$2.35**
YOUR PRICE.....

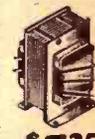
THORDARSON FILTER CHOKE

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 2,000 V. Size 3 3/4 x 3 1/4 x 1 1/2 in. high. Wt., 3 lbs.
No. E7033. List Price, \$3.95. **\$3.95**
YOUR PRICE.....



THORDARSON PLATE SUPPLY TRANSFORMER

T-5448. A popular priced plate supply transformer for amateur radio transmitters. Mounted in an open frame with coated leads on both primary and secondary. Primary 110 V. 60 cycles. 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 x 3 1/2 in. high. Wt., 6 lbs.
No. E7034. List Price, \$5.25. **\$5.25**
YOUR PRICE.....



THORDARSON HIGH POWER TRANSFORMER

For 2—50's or 10's and 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 1/2 x 4 1/2 x 1 1/2 in. Mounting centers, 3 3/4 x 3 in. Shpg. wt., 12 lbs.
No. E7035. List Price, \$3.80. **\$3.80**
YOUR PRICE.....



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. **\$4.12**
YOUR PRICE.....
No. E1548. 6071. 25 cycle power transformer. **\$5.88**
YOUR PRICE.....



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 30 per cent. May be used in all sets using 6-226, 1-227, 2-245, and 1-280 tubes.

FOR VICTOR RE-75, RE-32, RE-52, RE-45

Filament secondaries 2-1 1/2 V. for 220's, 2 1/2 V. for 227's and 235'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 shell.

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 amps. Overall size: 3 1/2" x 2 1/4". Shpg. wt. 5 lbs.

No. E1890. 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., 2 amp. for 1-280; 2.5 V., 3-5 amps. Overall size: 3 1/2" x 3 3/4". Wt. 6 lbs.

No. E1891. 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 1/2" x 3 3/4". Shpg. wt., 9 lbs.

No. E1892. YOUR PRICE \$1.90

CARTER FILTER CHOKES



No. E1893. Small. Ideal for use in "midger" receivers. D.C. resistance 350 ohms. Inductance 23 henries at 40 M.A. Chromium Plated Steel Shell. Height 1 1/2". Mounting Crenels, 2 1/4". Wt., 2 lbs.

No. E1894. YOUR PRICE \$1.95

No. E1895. Large. For large receivers and power amplifiers. D.C. resistance 260 ohms. Inductance 23 henries at 100 M.A. Height, 2 1/2". Mounting Crenels, 2 1/4". Wt., 2 1/2 lbs.

List \$3.15. YOUR PRICE \$1.10

ACME STEP-DOWN TRANSFORMER



Reduces line voltages from 200-240 volts to 50-60 cycle, 100-120 volts. Supplied complete with plug, 8 foot cord and receptacle. Simple to attach—just by plugging in. Wt., 3 lbs.

No. E800. 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 six 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: 110-130 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**

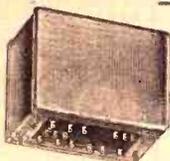
FOR RADIOLA 42 AND 48

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 1/2" x 3 1/2". 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, 2-227, 2-245 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 4-224, 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

931-509-591-593
Sparton B-2339. Delivers: 600 V. each side of center tap; 1.5 V. winding, C.T. for 2-182-183 or 171 tubes; 1-3 V. winding, C.T. for 4-484 or 485 tubes; 1-5 V. winding, C.T. for 1-280 tube. Primary leads, 100, 220 volts. **No. E7036. YOUR PRICE \$4.12**

MODEL 936
Sparton B-2204. Delivers: 600 volts C.T.; 5 V. at 2 amp. C.T. and 3 V. at 8 amp. C.T. By use of small resistor, 3 V. winding can be decreased to 2 1/2 V. for use on 224, 227, 245, 235, 351 and Pentode 247 tubes. Tapped primary, 100-130 V., 60 cycle A.C. **No. E7037. YOUR PRICE \$2.94**

MODEL 305-504-570-750
Sparton B-2358. Delivers: 600 V. each side of center tap; 1-1.5 V. winding for 2-281 tubes, C.T.; 1-1.5 V. winding 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. E7035. 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 7 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 2-235, 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: 600 V. C.T.; 5 V. for 1-280; 2 1/2 V. C.T. for 2-224 or 2-235, and 1-247. For 5 tube sets—Delivers: 650 V. C.T.; 3 V. for 1-280; 2 1/2 V. C.T. for 3-225 or 235's and 1-247.

SOUND CONSTRUCTION

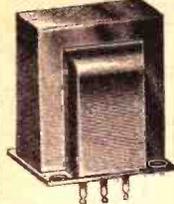
A carefully constructed transformer of excellent quality, ready for mounting. Its compact size makes it available for installation on any four or five tube receiver covered by the specifications given. Shpg. wt., 4 lbs. each.

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, 231, 232, 171 or 245 tubes. Large core of high grade silicon.

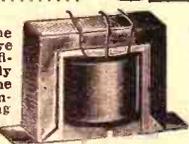
Completely shielded in strong and durable steel case. Ideal for quality replacements, yet at a low cost. Will modernize both A.C. and D.C. sets. Will reproduce all frequencies in excellent absolute fidelity. Ratio: 3 1/2:1. A splendid transformer value for either replacement or original work. Measures 3 3/4" x 2 1/2" x 2 1/2". Shpg. wt., 3 lbs.

NO. E4300
YOUR SPECIAL PRICE

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 audio. 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 1/2 in. deep. Offered at an exceptionally low price. Wt., 2 1/2 lbs.

NO. E4381
YOUR PRICE



\$1.28

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 1/4 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. Interstate 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.

E3911. Single Pent. **73c**

YOUR PRICE..... **73c**

E3912. P.P. 245. **83c**

YOUR PRICE..... **83c**

E3913. Single Pent. **76c**

YOUR PRICE..... **76c**

E3914. P.P. Pent. **83c**

YOUR PRICE..... **83c**

PILOT TRANSFORMERS

BAKELITE CASE AUDIOS



For any circuit where highest grade parts are specified. Genuine bakelite, moisture proof case, 3 1/2 in. high, 2 3/4 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 after
E5962	394	Output
E5963	399	P.P. input
E5964	401	P.P. output imped.

\$1.33

\$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.	Type	NET. EACH
E5916	422	2 to 1
E5917	425	30 Henry output choke

\$2.47

NO. 381 SERIES

E5913	381	3/4 to 1	\$2.73
E5914	408	P.P. input	
E5915	409	P.P. output	3.23

RCA-VICTOR CHOKE

30 Henry 125 Mills.

For replacement in Victor, Radiola Models R-32, R-32, R-35, RE-75 and Edison sets, and for any set requiring a quality 30 Henry Choke.



D.C. resistance, 300 ohms. Size, 3" x 3" x 3". Shpg. wt., 4 1/2 lbs.

NO. E8105
YOUR PRICE..... **85c**

Philco Audio

Philco Replacement audio No. 3241 with characteristics and installation 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. E4406
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

faithfully and at a great value. Size, 2x2 1/2 x 1 1/2". Shpg. wt., 2 lbs.

NO. E3720
 Regular Value, \$8.00.
YOUR PRICE..... **65c**

JEFFERSON Stepdown TRANSFORMER 110 V TO 115 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. E4414
 Retail Value, \$5.00.
YOUR PRICE..... **85c**

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.; 520 v. at 60 M.A. Shpg. wt., 7 lbs.

YOUR PRICE..... **\$5.00**

NO. E5993. 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.; 2 v. at 2 amp.; 600 v. at 90 M.A. Shpg. wt., 8 lbs.

YOUR PRICE..... **\$4.25**

VICTOR AUDIO TRANSFORMERS

Especially designed for Models R32, R32, RE45, RE75

Push Pull Input and Output



VICTOR P.P. Input and Output transformer. Input prim., 2 to 1 ratio.

500 ohms; sec. 6 ohms; sec. 500 ohms; sec. 6 ohms to match moving voice coil on all Dynamic speakers. Used with 171, 245 and 250 tubes.
NO. E8103
YOUR PRICE..... **69c**

First Stage



A genuine shielded Victor Audio Transformer for replacement in all Victor sets and in any other set.

Primary 1,200 ohms tapped at 10 ohms for phono pickup. Secondary 2,800 ohms. Shpg. wt., 4 lbs.
NO. E6104
YOUR PRICE..... **45c**

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 1/2 lbs.
NO. E5370
YOUR PRICE..... **72c**

THORDARSON-JEFFERSON TRANSFORMERS

AUDIOS THORDARSON

Universal replacement for audio 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.



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, \$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, \$2.25. **YOUR NET PRICE... \$1.32**

R-260
Audio Interstage. Has exceptional tonal fidelity and greater amplification. Compact size. $2\frac{1}{2} \times 2\frac{1}{2} \times 3\frac{1}{2}$. Shpg. wt. 2 lbs.
No. E7020. Retail Value, \$1.76. **YOUR NET PRICE... \$1.76**

R-300
Audio Interstage. Employs a core of the famous Thordarson "DX" metal. $2\frac{1}{2} \times 2\frac{1}{2} \times 3$ in. Wt. 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**

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. $3 \times 3 \times 3\frac{1}{2}$ high. Shpg. wt., 4 lbs.
No. E7012. List, \$3.50. **YOUR PRICE... \$5.00**

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. $3 \times 3 \times 3\frac{1}{2}$ high. Shpg. wt., 4 lbs.
No. E7012. List, \$3.50. **YOUR PRICE... \$5.00**

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 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 PRICE... \$1.03**

R-196-30 Heavy
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 standards. Completely shielded in neat, durable cases. Will couple various types of tubes with dynamic or high impedance speakers. $3\frac{1}{2} \times 3\frac{1}{2} \times 3\frac{1}{2}$ in. Shpg. wt., each, 4 lbs.

Output Transformers

No.	Type	Purpose
E7006	T 2429	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**

PENTODE 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 2843. For single 247 pentode. List, \$3.00. **YOUR PRICE... \$1.76**
No. E7016. T 4831. For 2-247 pentodes in push-pull. List, \$3.50. **YOUR PRICE... \$2.06**

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 uniformly and accurate transformer performance. Sealed 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, \$5.00. **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 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**

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, 251, 233, 171, or 45 tubes. All audible frequencies reproduced with true fidelity. Coil thoroughly impregnated and moisture proof. Ratio 3 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., 2 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 $2\frac{1}{2} \times 2\frac{1}{2} \times 3$ in. 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, 245, 247 and 250 type power tubes.
No. E7046. List, \$4.50. **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—120 v. C.T., 130 M.A. $7\frac{1}{2} \times 5 \times 2\frac{1}{2}$ in. C.T. 2 1/2 amps; $7\frac{1}{2} \times 5 \times 2\frac{1}{2}$ in. C.T. 2 1/2 amps. Measures $4\frac{1}{2} \times 5\frac{1}{2} \times 5\frac{1}{2}$. Shpg. wt., 16 lbs.
No. E7047. List, \$9.00. **YOUR NET PRICE... \$5.29**

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 by omitting center tap. Mounts in every conceivable position. Supplied with both lugs and leads. Size, $1\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$. 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 type. 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**

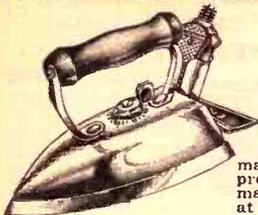
No. E4423. **YOUR NET PRICE... 68c**

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



Beautiful chromium finish. Graceful round hood. For every type of fabric. For 110 volts A.C. 7 1/2 in. base length. Shpg. wt., 3 1/4 lbs.

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 carbonydum. 25 heats. Comfortable in use. Standard 6 1/2 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.

No. E6622.

Retail, \$5.95.

YOUR PRICE

\$3.90

ONLY

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 heat unit. Cleans easily. Fine quality mica heat unit. Height, 7 1/4 in. length, 11 1/4 in., width, 7 1/4 in. Shpg. wt., 5 lbs.

No. E6638.

Retail, \$5.95.

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. Boreled 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



Lite handles. Handy aluminum lift rack and porcelain inside cup. Shipping weight, 4 1/2 lbs.

No. E6633.

Retail, \$5.95.

YOUR PRICE

\$3.60

SUPER SAFE WETPROOF HEAT PAD



Interlined with Samsonite. 3 heats. Chinella elder down cover. Patented "Tie Slip" cover included. Measures 12 in. x 15 in. Celophane wrapped. With cord and plug. 110-125 volt A.C. or D.C. 55 watt. Shipping weight, 2 lbs. Extremely necessary in every home.

No. E6634. Orhbid. No. E6626. Green. Retail, Each, \$5.00.

YOUR PRICE

\$3.45

INDICATOR WAFFLE IRON



A splendid sales item. A beautiful aluminum 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., 6 1/4 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 series. Fluffy side-down cover with cushion constructed blanket interlining. Measures 12 in. x 15 in. Complete with 4 1/2 ft. 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, \$3.50.

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 8 1/4 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

\$7.45



\$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, 3 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. E880.
YOUR SPECIAL PRICE
TABLE MODEL

\$12.75

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.

No. E880.
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**

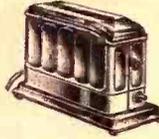
HEAT INDICATING CHROME WAFFLE IRON

Handsome chromium plating. Cast aluminum grill makes full plate size waffles. Heat indicator tells when to bake. Nichrome wire element. Bakelite handles. Shpg. wt. 6 lbs.



No. E2702. \$8.50 Value. **\$3.35**
SPECIAL NET

NEW AUTOMATIC TOASTMASTER



The Hand of Magello 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. Polished non-radiating heavily chromium plated. Shpg. wt. 6 lbs.

or, 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. Specially designed, high polish chromium finished. Complete with cord and plug. Shpg. wt. 6 lbs. No. E2501

Retail Price, \$14.50. **\$9.95**
YOUR PRICE

Automatic Electric Eggster



Automatic timing—Eggs prepared in 1/2 the time. Prepare your eggs right at the breakfast table. No fussing—no waiting 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 NET	No. Watts 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	E577 300 2.57

9 CUP COLONIAL PERCOLATOR

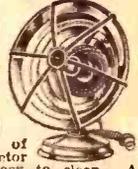
Magnificently designed—latest type. Distantaneous circulation through a double valveless pump, makes delicious coffee quickly. New V-type design. New non-drip spout, engraved motif, engraved base and highly polished aluminum finish. 9-cup capacity. Complete with standard cord set. Makes a beautiful gift. A useful and distinctive addition to any home. 110 volts, 400 watts. Shpg. wt. 4 lbs.



No. E5663. **\$3.68**
SPECIAL PRICE

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. E5675

SPECIAL LOW PRICE... **\$1.35**

Electrahot 600 Watt Automatic Iron

Beautifully chromium plated. Great heat storage capacity. Set dial button at heat required.



Auto mat iron thermostat keeps it there. Streamline, tapered point. Complete with cord. 110-120 volts A.C. only. Shpg. wt. 7 lbs. No. E2703. Retail, \$5.95. **\$2.65**
An Unbeatable value. Each.

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. **93c**
YOUR PRICE
No. E2914. Box of 10 Mazda Lamps. **58c**
YOUR PRICE



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24-25-26-27

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HOW TO ORDER FROM THIS CATALOG

Use Our Order Blanks

Send your orders to us on the convenient order blanks found in this book. It will help avoid mistakes and facilitate rapid shipment. Rush orders sent by telephone or telegraph will be given special attention.

Parcel Post Shipments

If shipment by parcel post is desired please send additional remittance to cover postage; any surplus will be promptly refunded. If insurance 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. If there is no express agent, include transportation charges 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 balances 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.

Figure Your Parcel Post Charges From This Chart

Parcel Post Rates

Packages Under 8 Ounces, Allow 1/4¢ Each 2 Ounces

WEIGHT, IN POUNDS	ZONES									
	First, Up to 1 MILES	Second, 50 to 100 MILES	Third, 160 to 300 MILES	Fourth, 300 to 600 MILES	Fifth, 600 to 1000 MILES	Sixth, 1000 to 1400 MILES	Seventh, 1400 to 1800 MILES	Eighth, Over 1800 MILES		
1	8¢	8¢	9¢	10¢	11¢	12¢	14¢	15¢		
2	10¢	10¢	11¢	12¢	13¢	14¢	16¢	17¢		
3	11¢	11¢	12¢	13¢	14¢	15¢	17¢	18¢		
4	12¢	12¢	13¢	14¢	15¢	16¢	18¢	19¢		
5	13¢	13¢	14¢	15¢	16¢	17¢	19¢	20¢		
6	14¢	14¢	15¢	16¢	17¢	18¢	20¢	21¢		
7	15¢	15¢	16¢	17¢	18¢	19¢	21¢	22¢		
8	16¢	16¢	17¢	18¢	19¢	20¢	22¢	23¢		
9	17¢	17¢	18¢	19¢	20¢	21¢	23¢	24¢		
10	18¢	18¢	19¢	20¢	21¢	22¢	24¢	25¢		
11	19¢	19¢	20¢	21¢	22¢	23¢	25¢	26¢		
12	20¢	20¢	21¢	22¢	23¢	24¢	26¢	27¢		
13	21¢	21¢	22¢	23¢	24¢	25¢	27¢	28¢		
14	22¢	22¢	23¢	24¢	25¢	26¢	28¢	29¢		
15	23¢	23¢	24¢	25¢	26¢	27¢	29¢	30¢		
16	24¢	24¢	25¢	26¢	27¢	28¢	30¢	31¢		
17	25¢	25¢	26¢	27¢	28¢	29¢	31¢	32¢		
18	26¢	26¢	27¢	28¢	29¢	30¢	32¢	33¢		
19	27¢	27¢	28¢	29¢	30¢	31¢	33¢	34¢		
20	28¢	28¢	29¢	30¢	31¢	32¢	34¢	35¢		
21	29¢	29¢	30¢	31¢	32¢	33¢	35¢	36¢		
22	30¢	30¢	31¢	32¢	33¢	34¢	36¢	37¢		
23	31¢	31¢	32¢	33¢	34¢	35¢	37¢	38¢		
24	32¢	32¢	33¢	34¢	35¢	36¢	38¢	39¢		
25	33¢	33¢	34¢	35¢	36¢	37¢	39¢	40¢		
26	34¢	34¢	35¢	36¢	37¢	38¢	40¢	41¢		
27	35¢	35¢	36¢	37¢	38¢	39¢	41¢	42¢		
28	36¢	36¢	37¢	38¢	39¢	40¢	42¢	43¢		
29	37¢	37¢	38¢	39¢	40¢	41¢	43¢	44¢		
30	38¢	38¢	39¢	40¢	41¢	42¢	44¢	45¢		
31	39¢	39¢	40¢	41¢	42¢	43¢	45¢	46¢		
32	40¢	40¢	41¢	42¢	43¢	44¢	46¢	47¢		
33	41¢	41¢	42¢	43¢	44¢	45¢	47¢	48¢		
34	42¢	42¢	43¢	44¢	45¢	46¢	48¢	49¢		
35	43¢	43¢	44¢	45¢	46¢	47¢	49¢	50¢		
36	44¢	44¢	45¢	46¢	47¢	48¢	50¢	51¢		
37	45¢	45¢	46¢	47¢	48¢	49¢	51¢	52¢		
38	46¢	46¢	47¢	48¢	49¢	50¢	52¢	53¢		
39	47¢	47¢	48¢	49¢	50¢	51¢	53¢	54¢		
40	48¢	48¢	49¢	50¢	51¢	52¢	54¢	55¢		
41	49¢	49¢	50¢	51¢	52¢	53¢	55¢	56¢		
42	50¢	50¢	51¢	52¢	53¢	54¢	56¢	57¢		
43	51¢	51¢	52¢	53¢	54¢	55¢	57¢	58¢		
44	52¢	52¢	53¢	54¢	55¢	56¢	58¢	59¢		
45	53¢	53¢	54¢	55¢	56¢	57¢	59¢	60¢		
46	54¢	54¢	55¢	56¢	57¢	58¢	60¢	61¢		
47	55¢	55¢	56¢	57¢	58¢	59¢	61¢	62¢		
48	56¢	56¢	57¢	58¢	59¢	60¢	62¢	63¢		
49	57¢	57¢	58¢	59¢	60¢	61¢	63¢	64¢		
50	58¢	58¢	59¢	60¢	61¢	62¢	64¢	65¢		
51	59¢	59¢	60¢	61¢	62¢	63¢	65¢	66¢		
52	60¢	60¢	61¢	62¢	63¢	64¢	66¢	67¢		
53	61¢	61¢	62¢	63¢	64¢	65¢	67¢	68¢		
54	62¢	62¢	63¢	64¢	65¢	66¢	68¢	69¢		
55	63¢	63¢	64¢	65¢	66¢	67¢	69¢	70¢		
56	64¢	64¢	65¢	66¢	67¢	68¢	70¢	71¢		
57	65¢	65¢	66¢	67¢	68¢	69¢	71¢	72¢		
58	66¢	66¢	67¢	68¢	69¢	70¢	72¢	73¢		
59	67¢	67¢	68¢	69¢	70¢	71¢	73¢	74¢		
60	68¢	68¢	69¢	70¢	71¢	72¢	74¢	75¢		
61	69¢	69¢	70¢	71¢	72¢	73¢	75¢	76¢		
62	70¢	70¢	71¢	72¢	73¢	74¢	76¢	77¢		
63	71¢	71¢	72¢	73¢	74¢	75¢	77¢	78¢		
64	72¢	72¢	73¢	74¢	75¢	76¢	78¢	79¢		
65	73¢	73¢	74¢	75¢	76¢	77¢	79¢	80¢		
66	74¢	74¢	75¢	76¢	77¢	78¢	80¢	81¢		
67	75¢	75¢	76¢	77¢	78¢	79¢	81¢	82¢		
68	76¢	76¢	77¢	78¢	79¢	80¢	82¢	83¢		
69	77¢	77¢	78¢	79¢	80¢	81¢	83¢	84¢		
70	78¢	78¢	79¢	80¢	81¢	82¢	84¢	85¢		
71	79¢	79¢	80¢	81¢	82¢	83¢	85¢	86¢		
72	80¢	80¢	81¢	82¢	83¢	84¢	86¢	87¢		
73	81¢	81¢	82¢	83¢	84¢	85¢	87¢	88¢		
74	82¢	82¢	83¢	84¢	85¢	86¢	88¢	89¢		
75	83¢	83¢	84¢	85¢	86¢	87¢	89¢	90¢		
76	84¢	84¢	85¢	86¢	87¢	88¢				

KNIGHT 10 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 Super-phonic tubes make the amazing Knight 10 circuit possible.

SUPERHET AT ITS BEST

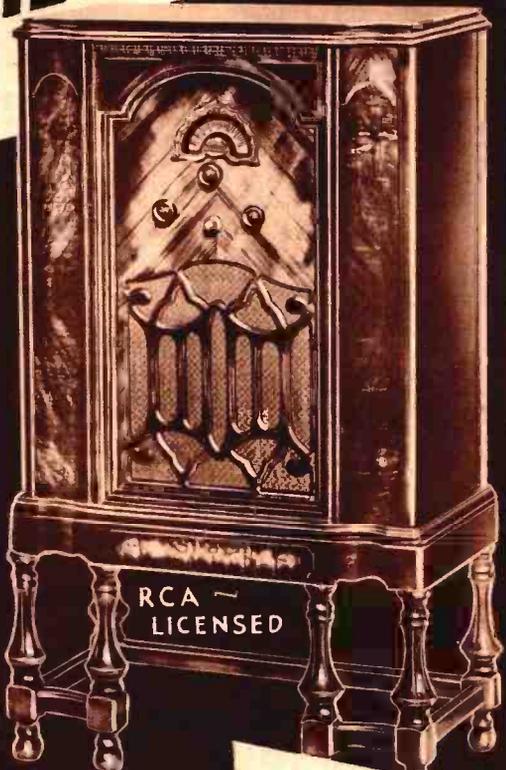
Everything that is best and newest in radio today is found in the Knight 10—Seven Super-phonic Tubes for quiet, super-sensitive, economical operation; Automatic Uniform Volume Control to prevent blasting and fading and to equalize volume; Inter-station Noise Suppressor to silence static and noise; Full 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 1/4 in. wide, and 13 in. deep.

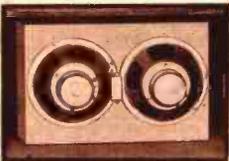


MATCHED DUAL OVERSIZE SPEAKERS

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 Super-phonic 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.

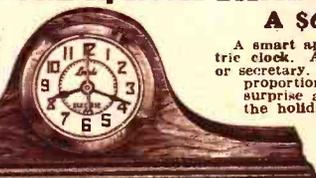
ELECTRIC CLOCKS

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 appearing 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.

SENSATIONAL
PRICE.
EACH

\$1.95

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 1/2 in. with gilt bezel and convex lens. Sweep second indicator hand. Supplied with 6 ft. cord and plug.

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 \$1.28 set price ever asked for genuine electric alarm clock.

No. E3276.
SPECIAL NET

\$1.28

MOULDED CASE UTILITY MODEL

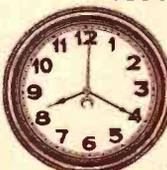


Great value and beauty. Must be seen to be really appreciated. The perfected Lincoln Electric movement in a walnut Moulded Novalite case with clear crystal lens and attractive Sepia Tone Numerals. Well dimensioned measurement

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. E3258.
YOUR SPECIAL PRICE.

58¢

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

lens. In three convenient sizes at prices that can't be beat.

No. E3251. 9 in. Dial. Shpg. wt., 6 lbs. **\$3.45**

LIST NET

No. E3252. 12 in. Dial. Shpg. wt., 9 lbs. **\$5.25**

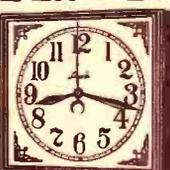
LIST NET

No. E3253. 15 in. Dial. Shpg. wt., 14 lbs. **\$7.25**

LIST NET

SQUARE MODEL

Another popular store and office electric clock. The fine Lincoln movement in a Mahogany finish wood case. 15 1/2 inches square; 14 in. square metal dial; double strength glass lens, and sweep second hand. An extraordinary value.



No. E3254. Retail Value, \$15.00. **\$3.95**
YOUR PRICE ONLY...

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:

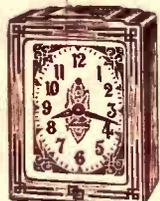
5 1/2 in. high, base 6 in. Shpg. wt., 3 lbs.

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.
LOOK AT THIS PRICE!

74¢

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...

\$86¢

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, 60 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.



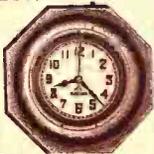
for long time service. 8 in. square. Easy to read—embossed numerals. No glass to break. Flasher indicator. Supplied with 6 ft. cord and plug. Shpg. wt. 4 lbs.

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. 3 1/2 in. dial and crystal lens. In two attractive colors, complete with 6 ft. cord and plug. Available in two models. Shpg. wt. 4 lbs. each.



Sweep Second Hand
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,

\$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 complete with 6 ft. cord and plug. Shpg. wt. 3 lbs.

No. E3267.
YOUR SPECIAL PRICE.

\$1.78

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, 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 portions, 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 knot-wood 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-phonics 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.

**TRIPLE
GRID
TUBES**

**DUAL
DYNAMIC
SPEAKERS**

**FULL RANGE
TONE CONTROL**

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-phonics 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, 9½ in. deep and 7 in. high.

**EXTREME
OPERATING
EFFICIENCY**

**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-phonics 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—56 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-phonics 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-phonics

Triple Grid Tubes

Seven of the new type triple Screen Grid Super-phonics 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-phonics 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 jump 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. **\$49⁴⁵**
Retail Price, \$110.00.
YOUR PRICE.....

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. **\$56⁵⁵**
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.

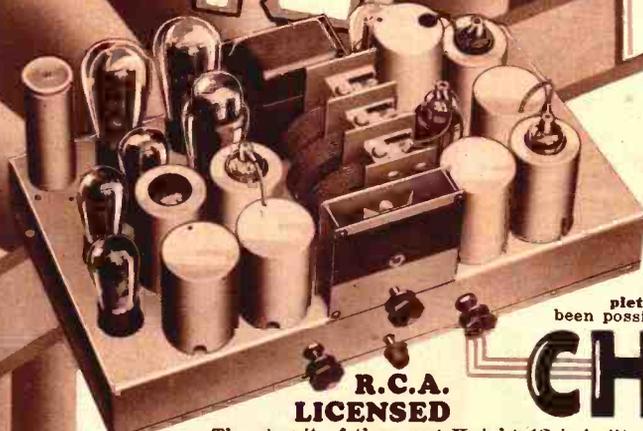
COVERS ENTIRE AUDIBLE RANGE...

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—56 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

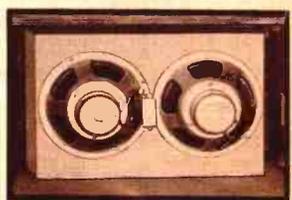
\$41.25

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, \$108.50.

YOUR PRICE

\$49.85



\$ **41.25**

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-phonics 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, Spot-light 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 reproducer 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-phonics 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.

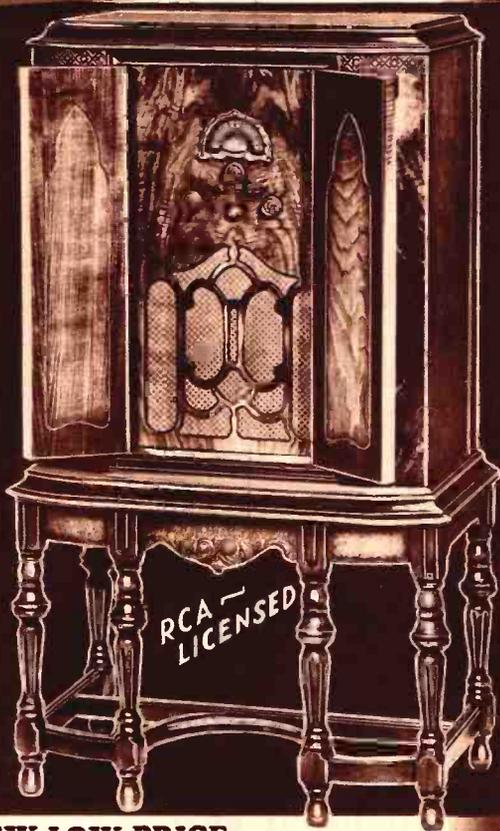
GIANT DISTANCE RANGE

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-heter 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.
YOURS PRICE, **\$59⁷⁵**

COMPLETE WITH R.C.A. TUBES

The Knight 12, complete, with 5—56, 1—57, 3—58, 2—46, and 1—83 RCA tubes.
No. E9755.
Retail Value, \$140.50.
YOURS 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-phononic 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 6 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

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.

DUAL DYNAMICS

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. **\$69.85**
YOUR PRICE.

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. **\$76.95**
YOUR PRICE.



PERFECT PHONO-RADIO REPRODUCTION...

KNIGHT MIDGET SETS

**4 TUBE • NEW
TRIPLE GRID TUBES
FULL VISION DIAL**

BIG SET VOLUME AND TONE

The new Super-phonie 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 and better tone found only in the larger sets. 1-37 tube and 1-38 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 14½ in. high and 12½ in. wide, is attractively designed in a two-tone highly finished walnut effect.



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. **\$8.95**
List, \$24.00.
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. **\$11.85**
List, \$29.95.
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 12½ in. wide.

3-GANG CONDENSER

The Knight 5 has big set design evidenced in its 3 gang condenser and its thorough shielding of all parts. It is built around the new Super-phonie tubes to give giant radio results.

SET, LESS TUBES

The Knight 5 is offered here complete, less tubes. No. E9706. **\$11.45**
List, \$32.25.
YOUR PRICE.

SET, WITH TUBES

The Knight 5, complete with 1-247, 1-28, 2-258, and 1-257 RCA licensed tubes. No. E9707. **\$15.15**
List, \$39.85.
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.



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 electric 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 outlet—complete with heavy rubber-covered 8 ft. cord.

No. E 8550
SPECIAL,
ONLY

73^c

White Cross Coffee Vac



An amazing new way to make coffee. Flavor—Health—Beauty—Economy—Convenience—all reflected by this new Coffee Vacuum. Does not bring out disagreeable coffee-tannic, 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. Contains 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

\$4⁰⁷

NEW 1000 WATT Automatic IRON



New-Automatic and Economical. 1000 watt adjustable electric iron. Consumes no more current than 850 watt iron. Bevel edge, large ironing surface.

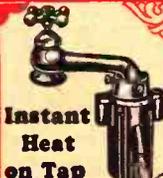
LIFETIME UNIT
Lifetime unit embedded in vitreous carborundum. 25 heats. Stays at exact temperature wanted. New type high arc thermostat.

CHROMIUM FINISH
Beautiful chromium finish. Graceful round hood. Tip-up rest. For 110 Volt A. C. only. Shipping wt. 7 lbs.

No. E 6622.

SPECIAL EACH

\$3⁹⁰



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 2920
List \$2.75.

YOUR LOW PRICE

\$1⁶³

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.



SENECA New 3 Heat Pad Fluffy Eiderdown Cover

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

\$2²⁷



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. **\$3⁶⁵**
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 selenized. Shipping Wt. 10 lbs.

No. E 5675
List \$11.25

NEW LOW PRICE

REX Electric ALARM CLOCK

Beauty—Precision—Utility at an unbeatable price. Highly accurate electric mechanism enclosed in a handsome walnut bakelite case. Equipped with a buzzer type alarm. Convex crystal lens.

110 or 115 v. a.c. 5-5/8 in. diameter.



Sweep Second Hand

A special feature is the sweep second hand. Equipped with 8 ft. cord and plug. Height 7 in. Base 8 1/2 in. For 110 Volt A. C. 60 cycles.

No. E 3275
A \$3.80 Value.

\$1²⁸
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 prong adapter and 25 ft. cord. Includes instruction sheet.

No. E 3223
\$1.50 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 super-sensitive 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. for outdoor use. **\$1.03**
No. E 2517—100 ft. for indoor use. **88c**

Talk and Ring for Thousands of Feet



A SET OF MODERN TELEPHONES

Real Phones

TALK AND RING ELECTRICALLY 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

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.



\$22.95

Beautiful Walnut Cabinet

A superior receiver deserves superior housing. The Knight 6 tube Super gets a fitting companion in the beautiful grained walnut cabinet pictured above. The cabinet measures 16 1/2 in. high, 13 in. wide and 8 1/2 in. deep. The Uni-tuning double scale dial simplifies tuning.

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.

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



Licensed By RCA

12 tube KNIGHT SUPERHET

Extreme Selectivity



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 over-lays of Carpathian Elm. Six sturdy, fluted pillars gracefully enhance the cabinet design. The cabinet stands 44 in. high, 23 1/2 in. wide and 13 1/2 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!

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, 3-53, 2-46, and 1-83 genuine RCA tubes. No. E9753. Retail Value, \$167.25.

76⁴⁵

YOUR NET PRICE

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**

67⁸⁵

Knigh**5** DUAL WAVE TUBE SUPERHET



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

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.

\$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 8 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