

Wholesale Only

1928
CATALOG



Kits
Parts
Sets
Accessories

Miller-Welles Co.

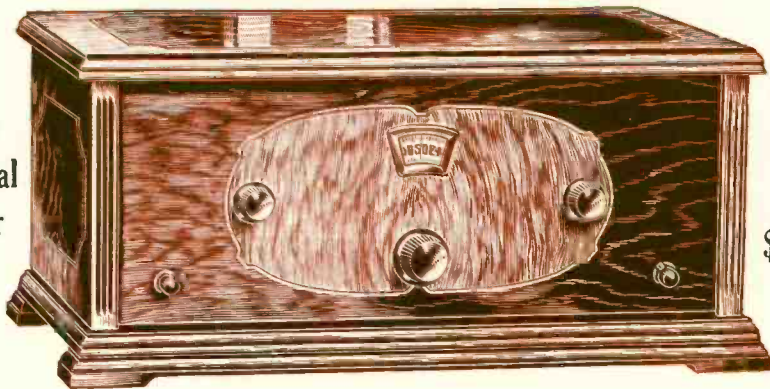
14-20 W. Kinzie St. Chicago, Ill.

STANDARD ADVERTISED MERCHANDISE

"CAMWELL" SHIELDED SIX

Your Price **\$38⁹⁰**
Single Control
Receiver

Our
Special
Offer



Retail
Price
\$70.00

SENSATIONAL Tone Quality — Power — Selectivity — Range

Write for Exclusive Dealers' Franchise

In presenting this magnificent Radio Receiver we are placing at your disposal the result of years of study and labor by some of the most efficient radio engineers in the United States. Public demand calls for **COMPLETE SHIELDING, EASE OF CONTROL, maximum SELECTIVITY, and NATURAL TONE at a POPULAR PRICE**

This CAMWELL Receiver uses six tubes, and the circuit includes three stages of radio frequency amplification, a detector and two stages of audio amplification.

chassis at will to console if occasion arises. All connections firmly soldered, all holes in panel where wires pass are bushed, snap type switches are used and all connections, including audio transformers, are clearly marked.

Manufactured under R. C. A. License.

**The Kind of Radio the People Want
— At What They Want to Pay**

Where Can You Find All These Features at This Low Price

Illuminated single dial control.
Cushioned detector socket.

All metal shielding.
Space wound coils on threaded Bakelite.

Power tube operation without alteration.

Focalizer bringing hair-line selectivity.

Extra size audio transformers shielded.

Rugged construction—transportation proof.

Beautiful walnut two-toned cabinet with inlaid gold striping.

In this "CAMWELL" Set you have **KEN SELECTIVITY** for the city, **POWER and VOLUME** for the country. The rugged strength built into this receiver prevents damage while shipping and keeps every working part in perfect alignment. **PANEL** is of heavy metal, beautifully decorated in gold, size 7x18, Vertical, which provides interchanging

1K5000—Set in cabinet.
List price, \$70.00. Net, each. **\$38.90**

1K5001—Chassis only.
List, price, \$60.00. Net, each. **33.30**

Recommended Accessories

We offer the following necessary equipment at a very low figure to accomplish our desire to assist you in getting the greatest amount of sales and resulting profit.

- | | |
|--|-------------|
| 5 201A Amplifier Tubes | List \$8.75 |
| 1 171 Power Amplifier | 4.50 |
| 1 22½-v. "C" battery. | 1.75 |
| 1 4½-v. "C" battery. | .50 |
| 3 large size 45-v. "B" batteries | 11.25 |
| 1 125 amp. hour "A" battery | 15.00 |
| 1 complete antenna equipment | 2.75 |

Total list price...\$44.50

2K5002—
Accessories. **\$24.80**
Your net cost.

CHASSIS ONLY

COMPLETE \$33³⁰
List Price \$60⁰⁰

(1) all-enclosing shield, all parts thoroughly protected,
(2) the power tube socket,
(3) cushioned detector socket.
The attached cable in color code is also shown.

OUR SERVICE

Merchandise as Advertised or Immediate Replacement

YEARS OF EXPERIENCE in mail order selling have taught us the value of **SATISFIED CUSTOMERS**; also our experience in handling radio merchandise has taught us the necessity for **QUICK SHIPPING**.

Practically every item listed in this catalogue is **ACTUALLY CARRIED IN STOCK** and exceptions to this fact will be due to no fault of our own or, as in the case of heavy items such as batteries, for example, we have arranged to ship direct from warehouses throughout the United States in order to **SAVE YOU TIME AND MONEY**.

It is therefore our earnest endeavor to **SHIP YOUR ORDER COMPLETE THE SAME DAY IT IS RECEIVED**.

If for any unavoidable reason we are unable to make shipment the same day your order is received a card of advice will be mailed to you stating just when shipment will be made and if the time required will cause you inconvenience **YOUR MONEY WILL BE PROMPTLY REFUNDED**.

We catalog standard advertised radio merchandise and you will receive it as it is packed by the manufacturer in every case where it is possible to store it in stock bins in that manner. We stand squarely behind every item offered for sale and **GUARANTEE COMPLETE SATISFACTION**.

Among our employees are young men thoroughly trained in the technical requirements of Radio and we earnestly invite you to submit any problem concerning Radio Receiver Construction, or trouble you are having with your customers' sets, to us and we will assist you in solving that problem. On our correspondence staff also we have a licensed operator who will gladly assist you with transmitting problems.

Due to the great variety of Radio items manufactured today we have not deemed it advisable to attempt to list every item available but have shown herein the items we consider to be the **MOST POPULAR ITEMS**—but we wish you to ask us for any item you desire whether it is listed or not, as we have access to an enormous market in Chicago and can procure it for you at standard wholesale prices.

THIS IS A WELL ESTABLISHED COMPANY and our sole ambition is to succeed and prosper through helping our customers to succeed and prosper.

YOU TAKE NO RISK in sending your remittance with your order to avoid unnecessary C. O. D. charges as the United States Government also guarantees you protection.

We solicit your continued patronage on the basis of continual and complete satisfaction.

HOW TO ORDER

For your convenience an order blank is placed in this catalog. Use it, or your letter head, or requisition form. Write plainly to eliminate any possibility of error, giving item number, quantity desired, name of item and total net price. Total the price column, add a sufficient amount for postage, if shipment is to be by parcel post, mail order to us and we will do the rest.

We will ship C. O. D. to our old customers but ask new customers desiring C. O. D. shipment to remit approximately one-quarter of the total amount of the order along with the first order.

Please assist us to serve you well by clearly indicating just how shipment is

TERMS 2% Cash Discount has been deducted from Net Prices shown. Accompany order with remittance if possible. C. O. D. charges to Post Office range from 17c up, depending on the amount to be collected.

to be made — **FREIGHT, EXPRESS, or PARCEL POST**. If by freight, indicate any preference as to routing. If by parcel post, specify whether you desire the package registered or by special delivery or by air mail and be sure to include all parcel post charges. It

is not necessary to request insurance as we insure all parcels valued over five dollars by private insurance. If no special instructions are given we will use our best judgment as to method of shipping as indicated by size and weight of package. We will always ship the quickest, safest and most economical way. Any excess postage you may have remitted will be returned to you.

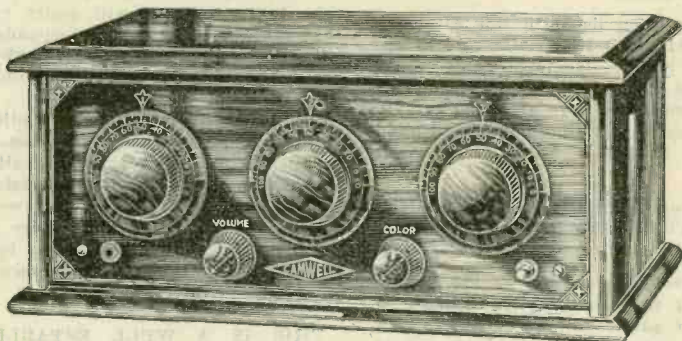
CAMWELL

FIVE

Retail Value \$40.00

3K5003

Your Net Price \$19⁵⁵



The Season's Biggest Radio Offer

This set will please and delight the most exacting Radio Fan. It is selective enough for the most congested districts and powerful enough for the most remote parts of the country.

It has great volume and good full flowing tone, and is capable of great distance reception on the loud speaker. The circuit is balanced tuned Radio Frequency, two stages of Tuned R. F., detector, and two stages of audio being employed. The "CAMWELL FIVE" is designed to operate with the 171 Power tubes. Also a 300 A detector tube may be used in the construction of this set. Filaments are controlled by two Rheostats. Solinoid R. F. Coils are used as well as S. L. F. low loss condensers, and Super Audio Transformers. The outward appearance of this remarkable set is absolutely unequalled in any set on the market at anywhere near the price. Fine mahogany finished cabinet with gold engraved bakelite panel, bearing three 4-inch mahogany dials. The latter are made purposely large to make tuning easier and more accurate. If you give this set a trial you should make hundreds of sales, as you can offer your customer an elegant high class radio receiver at a figure your competitors cannot meet and still you can realize the wide margin to which you are entitled. Consider it! A real high class radio receiver with the appearance of a set selling at many times the price for only \$19.55, or complete with tubes, batteries and high grade drum speaker, and aerial for the remarkably low price of \$59.48.

DEALERS:

Buy and sell this receiver complete with all accessories. Install it ready to go just as it reaches you. No necessity for carrying quantities on hand as we ship complete and quickly. You should have, of course, a demonstrator on hand at all times. Send for it today and let us enjoy a real rush season together.

WRITE FOR EXCLUSIVE "CAMWELL" TERRITORY

We want more exclusive dealers. If you push our line in your city or county we will back you. Attractive offer on request if territory is still open.

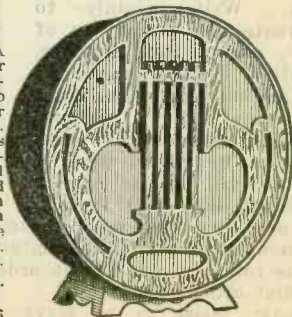
ACCESSORIES SUPPLIED

	List
4 201A Tubes	\$ 7.00
1 171 Power Tube	4.50
1 5 Lead Battery Cable	.60
3 45 V. Diamond "B" Batteries	11.25
1 22½ V. "C" Battery	1.50
1 6 V. 100 A.H. Radio "A" Battery	15.00
1 Operetta Drum Speaker	20.00
1 Complete Aerial Outfit	2.50

Total List Value Set and Accessories. \$102.35
 1K5004—Set complete. \$59.48
 Your net cost. \$59.48

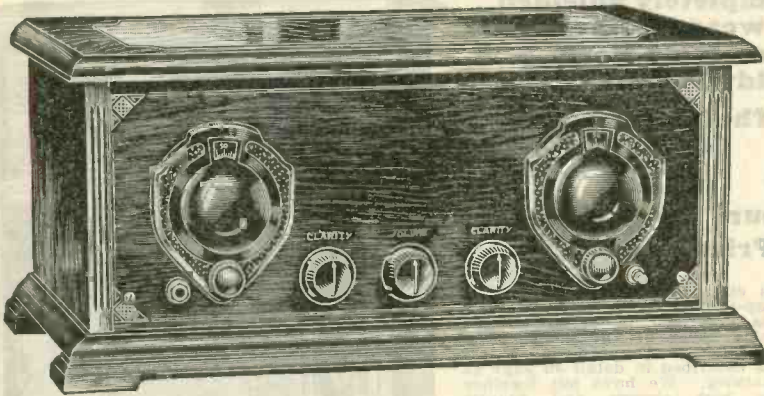
THE "OPERETTA"

At Last—A Drum Speaker that is far superior in tone to any Cone Speaker on the market. The grill is beautifully designed with hand scrolled work and is set in an Aluminum Drum with attractive brown finish. High Grade Unit. List price, \$20.00. 2K5115—Net, ea., \$11.76



Two Dial "CAMWELL" Six Tube

LIST
VALUE
\$6500



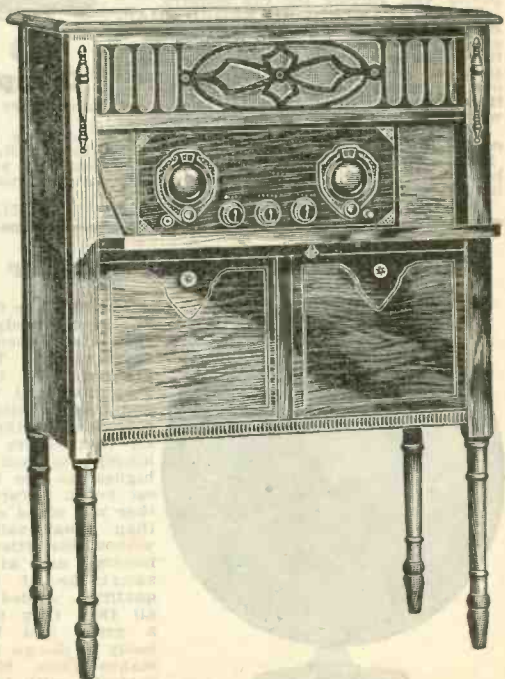
Cabinet
Model

PUSH This Popular Model. \$3375
1K5005. Your Net Cost

**Distance — Selectivity
Tone Quality**

"Console Model"

In the two beautiful models shown here, we have attempted to offer extremely popular designs at prices we know will produce a large volume of sales. The chassis of these "Camwell" models is constructed with expert workmanship. Gold decorated mahogany 7x18, bakelite panel, black polished bakelite sub-panel with direct panel mount push type sockets and spring detector socket. All transformers, coils, fixed condensers, etc., are mounted beneath the sub-panel so that all wiring is concealed. The attractive Kurz-Kasch mahogany dials are used, and two controls for clarity and one for volume assure maximum results.



"THE CIRCUIT" employs two stages of tuned radio frequency, detector, one stage of audio frequency and one stage of push pull amplification. Has two low loss condensers, one single gang in the antenna circuit and the other a two gang is used in tuning the R. F. circuits. Very high grade R. F. transformers. The last two tubes working together as one, eliminate any possibility of overloading. Thus doing away with high priced power tubes and giving better results.

THE "CABINET" is the beautiful two-tone Walnut model with full length piano hinge as described on page 43 of this catalog.

THE "CONSOLE" is the well made "High Boy" Speaker model, as described on page 46. Beautiful ply mahogany top and front with Adam Brown mahogany finished sides. Front is decorated by inlaid gold striping. Speaker horn and unit included. Ample room for batteries or eliminators. Complete with "UTAH" unit.

DEALERS: Here is Real Value. Make Big Profits. Your Customers will be more than Satisfied. No Service Problems. Order Your Demonstrator Now. Write for Exclusive Territory at Once.

1K5006. List Price \$123.00
NET.....\$6795

"CAMWELL"

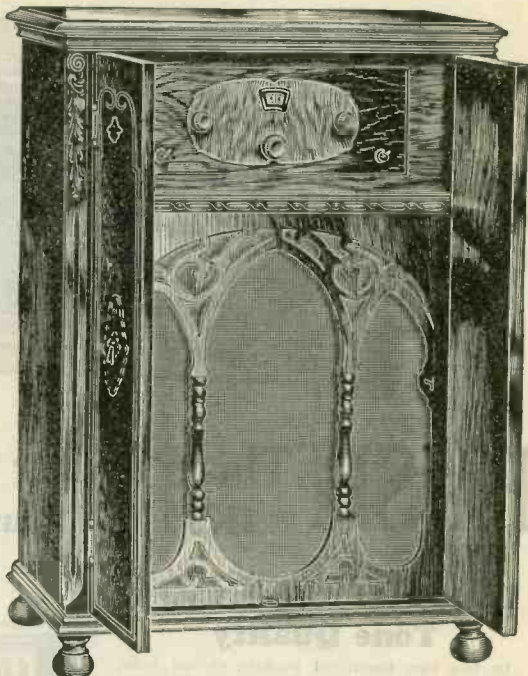
SINGLE CONTROL -- SIX-TUBE -- CONSOLE SPEAKER

Completely Shielded
Newcombe-Hawley
Aircolumn Horn
Baldwin Unit

In The "Intermezzo"
Console

1K5007

Your
Net Price **\$125.00**



Complete — List Value \$185.00

This is our finest offering in "CAMWELL" up-to-date Radio Receivers. The chassis is described in detail on the front inside cover of this book. The console speaker is the famous "Intermezzo" as described in detail on page 45 in this catalog. We have put together here the best chassis and console speaker we have to offer. In this set you will have what the customer wants and at a price he is willing to pay. And you can realize not only the satisfaction of selling a real high class outfit but also a net profit of \$60.00 for each sales effort. This is a long but clean profit and every "CAMWELL" Set is guaranteed to satisfy. What more could you demand?

We would not offer a poor receiver in such a fine console speaker and you will find here keen selectivity for the city, power and volume for the country.

The COMPLETELY SHIELDED CHASSIS contains extra size audio transformers, space wound coils, focalized for hair-line selectivity. Cushioned detector socket provides for power tube operation without alteration, and is controlled by an illuminated one-dial control. These and many other unusual features go to make this a receiver worthy of the praise it has received.

The BEAUTIFUL WALNUT CONSOLE contains behind the carved scroll the famous Newcombe-Hawley air column horn, with Baldwin unit, which produces faithfully all the high or low notes of the scale. The console is elegantly and solidly constructed of walnut, the front being of matched American butt walnut. Ample space is provided herein for power units, eliminators or batteries.

DEALERS: WRITE FOR EXCLUSIVE "CAMWELL" TERRITORY.

The "Baritone" Cone Speaker



The Baritone Cone Speakers embody all the latest scientific developments. They are noted for their deep natural tone and their ability to reproduce faithfully all that enters the microphone from the highest to the lowest notes. Further they will stand more than usual volume without distortion or blasting and at no sacrifice of tone quality. Added to all this, they have a grace and harmony of design that makes them blend perfectly with home surroundings.

	List	Net
2K5135—20" Cone	\$25.00	\$14.70
2K5140—36" Pedestal Type	39.00	22.94
Shipping weight 100 lbs.		

The "Temple" Drum

The Temple Speaker represents the most important advance yet made in Radio tone reproduction. It is sensitive beyond comparison and reproduces the entire musical scale with a tonal brilliancy that will enchant you.



The Temple is not just "another speaker"—it is not a cone, but rather a unique musical instrument of the long compensated exponential air column design, co-ordinated with a recently developed unit—and built to precision with acoustical qualities of an unusual character.

You can fit your console with a Temple Drum Tone Chamber. Write for prices, stating space size.

	List	Net
2K5145—13" size	\$29.00	\$17.06
2K5150—18" size	48.50	28.52

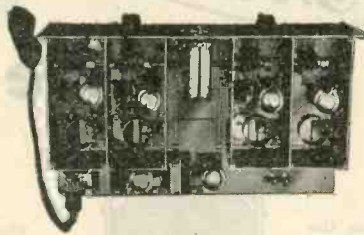
"Hi-Q Six"

The latest model Hammarlund-Roberts receiver is a product of scientific radio engineering. No ordinary standard of performance can be applied to it. Complete isolation of the four tuned circuits plus automatic variable coupling, result in maximum and uniform amplification and selectivity over the entire broadcast band.

The use of Symphonicon transformers and a power tube reproduces faithfully the full scale of musical frequencies from thunderous low notes to the delicate overtones, giving to speech and music the timbre and character essential to tonal beauty.

The set is completely shielded, non-oscillating, with no background noises. Announced by leading engineers as the finest radio instrument available.

Hammarlund ROBERTS Hi-Q SIX



List of Parts

These parts are required for the new Hammarlund-Roberts Hi-Q Six: 2 Samson Symphonicon Transformers; 4 Hammarlund .0005 Midline Condensers, 4 Hammarlund Hi-Q Six Automatic Variable Couplers, 4 RPC-85 Radio Frequency Choke Coils, 1 Hammarlund Illuminated Drum Dial, 1.00 Mfd. Bakelite Condenser, 1 Hammarlund .00025 mfd. Bakelite grid cond. with clips, 1 Carter Imp. 6-ohm rheo., 1 Carter Imp. battery switch with knob, 1 Durham metalized resistor, 2 meg.; 3 Parbolt 1/2 mfd. series A Cond., 2 Amperites 1-A, 1 Amperite 112, 6 Eby Binding Posts, 1 Yaxley Cable Connector and Cable, 1 Hammarlund-Roberts Hi-Q Foundation Unit.

3K1050—Complete ready to build. **\$61.15**
List, \$96.00. Net.....

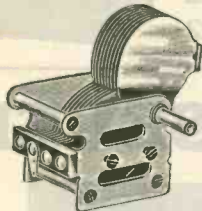
Hi-Q Foundation Unit



Contains drilled and engraved Westinghouse Bakelite Micarta panel, completely finished Van Doorn Steel chassis, four complete heavy aluminum shields, extension shafts, screws, cams and all necessary hardware required for Hi-Q Six receiver.

3K1051—List, \$15.50. Net, **\$9.87**

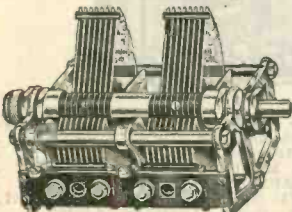
Our Special Condenser



This remarkably low priced condenser is built of stamped aluminum plates well built and very low loss. Small in design and very neat in appearance. Used in many manufactured sets.

3K1055—00035 mfd. **98c**
List, \$2.00.. Net.....

U. S. L. Condensers



Small. Especially suited for shielded work. Very low loss.

3K1066—Single cond. .00025 mfd. List, \$1.75. Net..... **\$1.05**
3K1067—Single cond. .00035 mfd. List, \$1.75. Net..... **\$1.11**
3K1068—Single cond. .0005 mfd. List, \$2.00. Net..... **\$1.28**
3K1069—2-gang. .00035 mfd. List, \$3.50. Net..... **\$2.23**
3K1070—2-gang. .0005 mfd. List, \$4.00. Net..... **\$2.55**
3K1071—3-gang. .00035 mfd. List, \$5.75. Net..... **\$3.66**

Hammarlund Shields

Heavy sheet aluminum sides which slide into grooved aluminum posts are held firmly together by screws, designed especially for new Hi-Q Six receiver.



3K1052—List, \$6.00. Net... **\$3.83**

ALUMINUM SHIELDS

Sheet Aluminum sides are clamped together by corner pieces which slide into place and make positive contact reducing Eddy current losses to minimum. Size 8"x7"x6".

3K1053—**\$1.28**
Each, list, \$2.00. Net.....

Midline Condenser

The Hammarlund "Midline" condenser has proved its mettle during the past seasons. It is now recognized throughout the radio world as a precision product without a peer. The special shape avoids crowding of stations in either upper or lower bands. The new model is very compact and reliable.



	List	Net
3K1056 —0005 mfd...	\$5.50	\$3.50
3K1057 —00035 mfd...	5.25	3.35
3K1058 —00027 mfd...	5.10	3.25
3K1059 —00025 mfd...	5.00	3.19
3K1060 —0001 mfd...	4.75	3.02

Hammarlund "Strobodine" Coils

These sets of coils are made up of standard and special Hammarlund coils, officially specified for the popular "Strobodine" circuit.

3K1072—Set of 3 coils.
List, \$10.00. Net..... **\$6.37**

Hammarlund Equalizer

Another new Hammarlund product. Small neutralizing condenser having wide capacity range. Well constructed and essential in many popular circuits. Range 35 to 2 mfd.

3K1073—List, 50c. Net..... **32c**

Illuminated Drum Dials

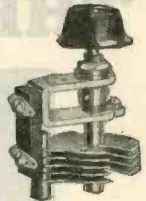
An entirely new Hammarlund product developed by the large demand for drum dials. For use with all condensers. Station may be tuned in with a simple movement of the finger. Wavelength scales are of translucent celluloid with small light back of them. Adaptable to all standard panel proportions.



3K1054—Template, mounting screws, and complete instructions included.
List, **\$6.00**. Net..... **\$3.83**

Hammarlund Midget

Most popular midget condenser on the market today. Soldered brass plates, bakelite dielectric, one-hole mounting, specified in many popular circuits.



3K1061—16 mmfd. List, \$1.50. Net..... **96c**

	List	Net
3K1062 —32 mmfd.	\$1.50	\$0.96
3K1063 —50 mmfd.	1.75	1.11
3K1064 —65 mmfd.	2.00	1.28
3K1065 —100 mmfd.	2.25	1.49

Hammarlund R. F. Choke



This choke coil is a new Hammarlund product. A genuine helical winding.

3K1074—85 millihenries, three mmfd. and resistance of 215 ohms. List, \$2.00. Net..... **\$1.28**

3K1075—250 millihenries, capacity of 2 mmfd. and a resistance of 426 ohms. List, \$2.25. Net, **\$1.43**

**ENJOY IT
AT HOME**

No Wires To String
About

Single Dial Control



Portable

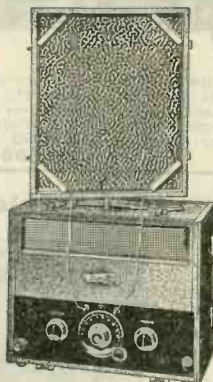
Speaks for Itself

**TAKE IT
ANYWHERE**

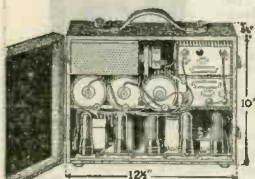
To the Camp
In the Car
On the Train
To the Sick

The TRAV-LER is the answer to the question of "Portability" in Radio Receiving Sets. Weighs only 24 lbs. completely equipped and has the volume and quality of reproduction which puts it far in the lead in this type of receiver.

ACCESSORIES—5 UX199 or C299 tubes, 2 small 45-volt "B" Batteries or 4 small 2 1/2-volt Batteries, 3 "A" Battery dry cells.



The TRAV-LER Portable 5 is the result of exhaustive tests and experimenting and no expense has been spared to produce a high class receiving set. Has loop aerial contained in cover. Place it on top of set. Turn on switch and receiver is ready to operate. Equipped with D-X Coupler for use with long aerial and ground connection.



A radio so small and compact it can be carried like a hand bag. A powerful selective, clear-toned receiver at a price unbelievably low.

1K5008—List price, \$65.00. \$38.22

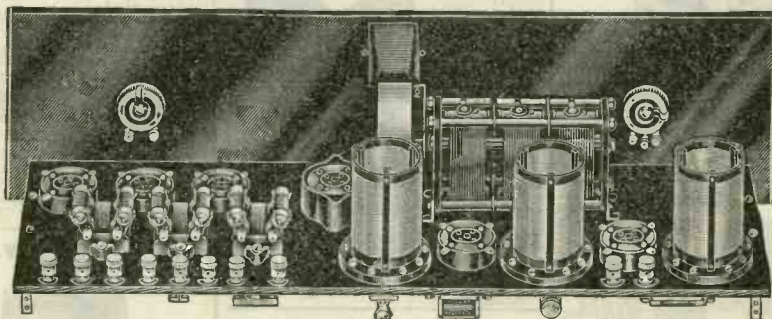
Net price, without accessories.....

1K5009—List price, \$84.25. 48.02

Net price, completely equipped.....



THE NEW AERO-SEVEN



Ten kilocycle separation between stations is accomplished by the Aero Seven, the one drum dial set which is having a sensational sale. It employs HI-Mu tubes in the Radio Frequency end tubes which have 1.6 the efficiency of 201A tubes, and make the performance of this set stand out. In all, it employs 5 of the new 240 (or 340), one 201A and one 171. In a new manner the antenna circuit is so compensated for in the Aero Seven that selective tuning is accomplished with one drum dial. Volume and tone quality of the highest degree.

LIST OF PARTS REQUIRED

- 1—Aero Seven Foundation Unit.....\$12.00
- 1—Aero TRF Kit, Code U-12 (3 coils).... 12.00
- 1—Aero Choke No. 60..... 1.50
- 1—Silver-Marshall Drum Dial..... 3.00
- 1—Carter Battery Switch D..... .65
- 1—Carter 200-ohm "IMP" Potentiometer... 1.25

- 1—Carter 6-ohm "IMP" Rheostat.....\$ 1.00
- 1—Carter H-1000 Resistor30
- 1—Carter H-1 Resistor25
- 1—Carter .00025 MFD Condenser40
- 1—Carter .001 MFD Condenser50
- 2—Carter 1/2 MFD Bypass Condensers..... 1.80
- 10—X-L Binding Posts, Lettered Aerial, Ground, Ax, AC, 2C, B90, Amplifier Bx, Speaker X, Speaker C..... 1.50
- 1—Amsco Floating Socket 1.00
- 6—Amsco Plain Sockets @ \$0.50..... 3.00
- 1—Amsco .000 MFD Triple Condensers... 11.25
- 1—Amsco Grid Gate Mounting..... .30
- 1—Amsco 5 Meg. Grid Gate..... .50
- 1—Kit AMSCO Aero Seven Resistance Coupled Audio 7.00

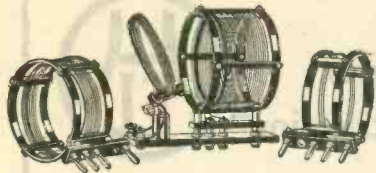
Total list price.....\$59.20

5K925— \$34.79

Net

"AERO" PRODUCTS

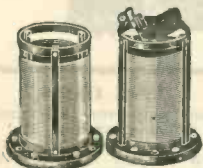
Aero Short Wave Kit



This Kit consists of three interchangeable coils, each unit comprising a grid and plate inductance. A base is provided on which is mounted an adjustable primary coil whose coupling may be set for best results with long or short antenna. By adding the coils No. 4 and 5 shown at the right, a range is obtained up to 550 meters.

3K900—List price, per set, \$12.50. Net, **\$7.35**

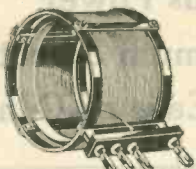
15 to 135 Meters Aero R. F. Regenerative Kit



An indispensable kit consisting of an Aero R.F. Transformer and an Aero 3-circuit tuner of the fixed tickler type. Any set built along these lines can be made more efficient by substituting this set of coils. Uses only 201A, 112 and 199 Tubes and the new A.C. Tubes. (For Aero Four.)

3K907—For .0005 Condenser \$8.00
3K908—For .00035 Condenser. 8.00
 Net price, each kit **\$4.71**

Aero Interchangeable Coils No. 4, 5 and 0



By using these coils the range of your short wave tuner may be increased from 13 to 725 meters. These should be purchased with the kit shown at the left as they fit the base and use the same condensers.

3K901—Coil No. 4. Range 125 to 250 meters.
3K902—Coil No. 5. Range 235 to 550 meters.
3K918—Coil No. 0. Range 13 to 29.4 meters.
 List price, each \$4.00
 Net, each **\$2.36**

Aero Tuned R. F. Kit

For Aero-Dyne Six



Kit consists of four twice-matched units, one aero antenna inductance with variable primary and three aero R. F. Transformers adaptable to 201A, 199, 112 or the new 240 Tubes and new A. C. Tubes. Tuning range 200 to 550 meters, for use with .0005 M.F.D. condenser or with .00035 condenser. Each kit carefully matched at both ends of broadcast range before packing.

3K903—For .0005 Condenser. List \$15.00
3K904—For .00035 Condenser. List 15.00
 Net price, each **\$8.82**

Kit of 3 coils for Aero Seven—
3K905—For .0005 Condenser... List \$12.00
3K906—For .00035 Condenser... 12.00
 Net price, each **\$7.06**



Aero Chokes

Here are three new choke coils, each designed to serve a specific need rather than depending on one to give average service in all fields.

3K909—For tuned R.F.
3K910—For high frequencies.
3K911—For transmitting.
 List price, each \$1.50
 Net, each **89c**

New Aero Universal 3-Circuit Tuner



This is the Aero coil in the form of a three-circuit tuner and is in this form a most efficient instrument. The 3-circuit regenerative set may be made more efficient by many times when the 3-circuit tuner is used. Equipped with Variable Primary. Adaptable to 201A, 199, 112 and new A. C. Tubes. List

3K912—For .0005 Condensers... \$4.00
3K913—For .00035 Condensers... 4.00
 Net, each **\$2.36**

Aero Antenna Coupler



A highly efficient low-loss Antenna coupler with Variable primary. Incorporates the famous aero principles adaptable to 201A, 199, 112, also the new 240 tube and the new A. C. tubes.

3K914—For .0005 Condenser.
3K915—For .00035 Condenser.
 List, each, \$4.00.
 Net price, each **\$2.36**

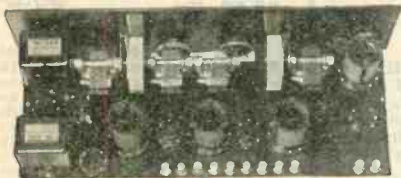
Aero Wave Trap

An excellent instrument due to the low distributive capacity and the low high frequency resistance of the aero coil. Will tremendously aid in eliminating troublesome interference. Will make any crystal set more efficient. Adaptable to 201A, 199, 112, New 240 or A. C. Tubes.

3K916—For .0005 Condensers.
3K917—For .00035 Condensers.
 List price, \$4.00.
 Net, each **\$2.36**



New AERO-DYNE 6



The Improved AERODYNE Six is a set with a national reputation for performance. It is easy to construct with the new AERO Universal Coils because shielding is made unnecessary. Only parts of proven merit and of nationally known manufacturers are used in the set. Actual size blueprints are packed with AERO foundation unit, drilled and engraved by Westinghouse Micarta. It consists of front panel and sub-panel. It is artistically set off with two drum dials. Front panel 24 inches.

LIST OF PARTS REQUIRED

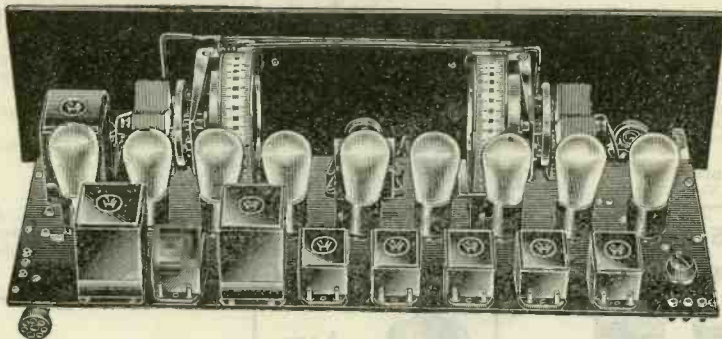
1 Aero Foundation Unit.....	\$12.50
1 Aero U16 kit of coils.....	15.00
2 Silver-Marshall Drum Dials.....	6.00
2 Silver-Marshall Type 220 Audios.....	16.00
4 Hammerlund .0005 Condensers.....	20.00
1 Benjamin Socket.....	.75
5 Silver-Marshall No. 511 Sockets.....	2.50
2 Tube 1 mfd. condensers.....	1.80
1 .00025 Carter Grid Condenser.....	.40
1 Tube 2 neg. Grid Leak Tipon.....	.50
1 Carter .001 Condenser.....	.40
1 Yaxley Switch Rheostat, 6-ohm.....	1.65
1 Yaxley Potentiometer (200-ohm).....	1.75
1 Yaxley Fixed Resistance, 1-ohm.....	.15
1 Polymet E Z Grid Leak Mounting.....	.50
11 X-L Blinding Posts, lettered: Aerial, Ground, A Bat., A Bat., C Bat., (2) B 45+, B 90+, Amplifier B +, Speaker Pos., Speaker Neg.....	1.65
Screw assortment and bus bar.....	.30
Total list price.....	\$81.85
5K920 —	\$48.13

Your net cost. **OPTIONAL TO B ELIMINATORS**
 1 Silver-Marshall "Unipack." See Page 14.
 1 Yaxley Cable No. 670. See Page 29.

LATEST NINE-IN-LINE



Tremendous Power
Maximum Selectivity
Ease of Construction



As Specified in the Citizens Radio Call Book

The efficiency of this powerful receiver has been repeatedly demonstrated here in Chicago. With many powerful locals on the air, scores of out of town stations were brought in with tremendous volume as well as super quality.

In this new model, which is a marked improvement over that of last year, there is a remarkable change which insures quiet operation as well as hair sharp selectivity.

The use of the New Audio Transformers, one of H. F. L.'s latest developments, coupled with the new output transformer and embodying the use of the 171 power tube, makes distortion practically impossible.

Four stages of intermediate frequency has successfully been designed, insuring great volume and selectivity. The great improvement in the audio circuit of this receiver has successfully overcome the tendency for the I. F. to feed into the audio stages. This has been one of the greatest disadvantages in superheterodyne operation.

By so arranging the various parts and using sub-panel mounting sockets the wiring of this set has been made extremely simple, and the appearance made equal to that of any factory built receiver by the use of the Remler drum dials.

The entire wiring being done under the panel all leads are therefore made extremely short, a very desirable feature in this type of set.

The new C-16 and C-25 H. F. L. Transformers will give you audio amplification of almost unbelievable purity.

Build this set and you will get every note and overtone on the entire musical scale.

H.F.L. UNITS

These supreme instruments have been approved and endorsed by Radio News—Radio Review—Radio Engineering—Radio Mechanics—Chicago Daily News—Chicago Evening Post—in fact by every leading Radio Authority—a universal endorsement that stamps H. F. L. as the highest standard of excellence in Radio.

Designed for baseboard or invisible panel mounting. All enclosed and sealed in uniform size genuine bakelite mounting.

H-210—Iron core transformer with high amplification factor. Range 32,000 to 42,000 cycles.

**3K1001—List price, \$4.71
\$8.00. Net.....**

H-215—Air core transformer, tuned stage, designed to amplify signals at a maximum efficiency of 37,000 cycles.

**3K1002—List price, \$4.71
\$8.00. Net.....**

L-425—Radio Frequency Choke Unit.

**3K1003—List price, \$3.24
\$5.50. Net.....**

L-430—Low Loss Radio Frequency Transformer.

**3K1004—List price, \$3.24
\$5.50. Net.....**

C-16 AND C-25

The new H. F. L. Audio Frequency Transformer (C-16) and the H. F. L. Output Transformer (C-25) together, are now introduced to the radio set builders as the most perfect means of Audio Amplification known to the science of radio. These new products are the final achievement of nationally known acoustical experts and electrical scientists. Their work has been enthusiastically endorsed by the most critical and skeptical of listeners.

**3K1005—C-16, List, \$4.71
\$8.00. Net.....**

**3K1006—C-25, List, \$4.71
\$8.00. Net.....**

List of Parts Required

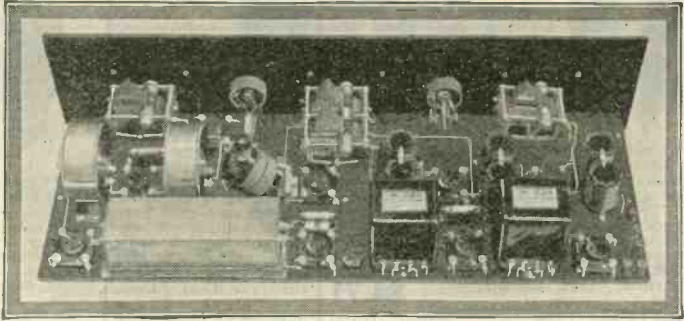
3 H. F. L. No. H. 210 Transformers, 2 H. F. L. No. H. 215 Transformers, 2 H. F. L. No. C. 16 Transformers, 1 H. F. L. No. L. 425 R. F. Choke Unit, 1 H. F. L. No. L. 430 R. F. Transformer, 1 H. F. L. No. C-25 Output Transformer, 9 Benjamin Sub-Panel Mounting Sockets No. 9044, 2 Remler Drum Dials Right and Left, 2 Remler .0005 Variable Condensers., 1 Hammerlund .000032 Midget Condenser, 1 Pr. Benjamin No. 8629 Brackets, 2 Carter By-Pass Condensers, 1 Mfd., 1 Carter .0005 Condensers, 2 Carter .002 Condensers, 1 Daven 3/4 Amp. Ballast, 1 Jones Multi-plug, 1 Carter 6 Ohm Rheostat with Switch, 1 Carter 6 Ohm Rheostat without Switch, 8 Carter Imp. Jacks, 1 7x26 Front Panel (Formica), 1 8x24 Base Panel (Formica), 1 Carter 200,000 Ohm Volume Control, Celasite, Screws, etc.

**5K1100—TOTAL LIST PRICE, \$129.40. \$76.68
YOUR NET PRICE**

CAMFIELD SUPER-SELECTIVE 9

Using the Famous
Rusco Band Pass
Filter

The Most Sensitive
and Selective
Circuit Ever
Developed



Embodying many new features. Outstanding among these features is the use of the famous Rusco Band Pass Filter in the intermediate frequency amplifier. This filter is designed to pass a band of frequencies 10 kilocycles wide. The amplification over this band is uniform and the cut-off on either side is extremely sharp. The result is perfect selectivity between wave bands of only 10 kilocycle separation in frequency.

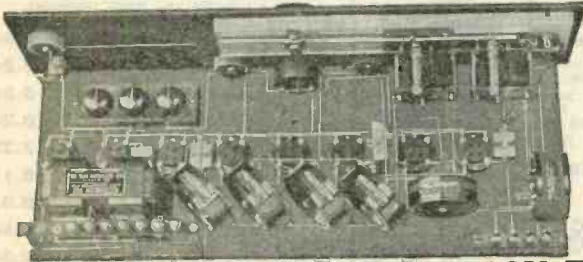
The turning of a switch on the panel converts this set from a five-tube two-control radio frequency receiver for the reception of local stations to a nine-tube super-selective and super-sensitive circuit capable of tuning through powerful local stations and receiving distant stations from coast to coast.

LIST OF PARTS REQUIRED

1 Camfield .00025 Equaltune Variable Condensers	\$ 5.50
1 Camfield .00035 Equaltune Variable Condensers	5.75
1 Camfield .00035 Equaltune Variable Condensers (2-gang)	10.50
1 Camfield kit of 3 Camfield Duoformers	10.00
1 Camfield Coupling Unit	3.50
1 Rusco Band Pass Filter	15.00
2 Rusco I. F. Transformers	12.00

1 Polymet .002 Fixed Condenser	\$ 0.30
2 Polymet .00025 Grid Condensers	.70
2 Polymet Grid Leak	1.00
2 Tobe 1/2 mfg. Condensers	1.80
2 Silver-Marshall No. 220 Audio Transformers	16.00
1 Frost 6-ohm Rheostat	1.00
2 Frost 400-ohm Potentiometer	2.50
3 Kurz-Kasch Dials	6.00
9 Benjamin Sockets	6.75
3 Karas Brackets	.70
1 Carter Midget Battery Switch	.50
1 Carter No. 6 Jack Switch	1.25
5 Eby Binding Posts	.75
1 Jones Type P. M. Multiplug Sub-Panel with 8-ft. battery cable	2.50
1 PolyTrol (Automatic Rheostat)	1.00
1 Formica 7x30" drilled and eng. Panel	7.60
1 Formica 10x29x1/4 drilled Sub-panel	7.75
Complete set of Actual Size Blue Prints	1.50
Miscellaneous lugs, wire, screws, etc.	1.50
Total list price	\$123.35
5K1700	\$73.78
Your net price	
See next page for Camfield Parts.	

New Victoreen Universal Super 8



with the New
Master Control
Unit

LIST VALUE \$117⁵⁵

YOUR
NET PRICE \$69¹²

EASY TO BUILD—EASY TO OPERATE

The Victoreen Universal Circuit is the concentrated result of laboratory experiment—an exhaustive study of Superhetrodyne requirements. It has been designed for those fans who will never be satisfied with anything except the best in radio reception. This circuit combines all those features which the radio fan demands—faithful reproduction of quality programs, careful consideration of selectivity, and the ability to get distant stations through local interference.

LIST OF PARTS REQUIRED

1 Lignole Front Panel, 7x26x3/16 in.	\$ 6.00
1 Victoreen 2-Ohm Rheostat (use 6-Ohm Rheostat for dry cell tubes)	1.20
1 Yaxley No. 10 Battery Switch	.50
1 Victoreen No. 400, 400-Ohm Potentiometer	1.50
1 Jewell Pattern No. 135 Voltmeter (0-8 volt for storage battery tubes; 0-5 volt for dry cell tubes)	7.00
1 Victoreen 6-Ohm Rheostat (use 20-Ohm Rheostat for dry cell tubes)	1.20
1 Victoreen Master Control Unit	19.50
1 Yaxley No. 60 Jack Switch	1.25

1 Victoreen Audio Control Unit (for power tubes in last audio stage, use a 10-Ohm Rheostat in the last stage)	\$ 4.50
8 Benjamin Sockets No. 9040	6.00
2 Carter .00025 Mfd. Condensers with Grid Leak Clips	1.00
2 Durham 2 Meg. Leaks	1.00
1 Tobe 1 Mfd. Condenser	.90
1 Victoreen Audio Transformer Unit	22.00
1 Carter .001 Mfd. Fixed Condenser	.50
4 Victoreen R. F. Transformers (No. 170 for storage battery tubes; No. 171 for dry cell tubes)	28.00
1 Victoreen No. 150 Oscillating Coll.	5.50
1 Victoreen No. 160 Antenna Coupler	3.50
2 Yaxley No. 416 Pup Jacks	.30
13 Eby Ensign Engraved Binding Posts	1.95
1 Samson or Marco Vernier Dial	2.50
1 Wood Baseboard	.75
Screws, Celatsite, etc.	1.00
Total List Value	\$117.55
5K1750	\$69.12
Your Net Price	

All Victoreen Parts in Stock at 35% Off the List

**Tyrman Transformers
A New Achievement in
Tone and Volume**

Reproduction—amplified in life-like volume—all the notes, round, clear, full—from the deepest organ base to the highest piccolo is the acoustic achievement of the New Tyrman Audio Transformers. You will recognize them as masterpieces of transformer construction. Their amplification curve is ideal for reproduction no matter what speaker should be employed as their interpreter.

The combination of three units is recommended, where greatest volume is to be obtained with most faithful reproduction.

3K1101—Type 3-30 3.1 ratio Transformer. List, \$8.00. **\$4.71**

3K1102—Type 3-50 Power Input Transformer. List, \$10.00. **\$5.88**

3K1103—Type 3-51 Power Output Transformer. List, \$10.00. **\$5.88**



**Tyrman
Shielded
Socket**

Is the first practical and successful design of its kind. Assures proper functioning of each tube under the influence of static and magnetic fields. Shielding is of heavy aluminum—the best heat conductor obtainable, which radiates uniformly and keeps tube temperature constant. Constructed to allow baseboard, sub-panel or panel mounting of sub-panel wiring.

3K1104—List price, \$1.25. **74c**
Net, each.....

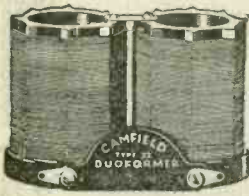


TYRMAN VERNIER DRUM DIAL
For All Fine Receivers. 7 Outstanding Features

Distinct visibility of graduations; they are silver etched with raised lines and figures. Accuracy of moulding; the 5/8-inch Drums and Verniers are Masterpieces of bakelite moulding. New clutch arrangement assures perfect concentricity of drums and condenser shafts. Flexible spring balanced bearing holds the vernier in steady contact with the drum. Absence of "backlash" combined with smoothest action ever obtained in tuning devices. Universal mounting makes it adaptable for all popular condensers. Bronze escutcheon plate gives unequalled beauty of appearance.

3K1105—Single Drum. List, \$2.94. **\$5.00.** Net, each.....
3K1106—Double Drum. List, 5.88. **\$10.00.** Net, each.....

**Camfield
Duoformer
Kit**



A radio frequency transformer, especially designed to avoid oscillation trouble. Sets built with this transformer are both sensitive and selective, and free from disturbing oscillations without the necessity of neutralizing.

Especially suitable for replacing coils in sets that are giving oscillation trouble.

Camfield Duoformers are packed in kits of three, one antenna coupler and two radio frequency transformers, and are especially tested and matched.

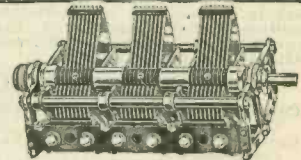
3K1701—Kit of 3 sets. List, \$10.00. Net, **\$5.88**

**Camfield
Coupling Unit**

Type 620, wound of green silk on black bakelite tubing. Designed for baseboard, sub-panel or panel mounting.

The terminals of the primary or rotor winding are connected to the secondary frame through flexible leads. The secondary winding is split in the center and four terminals are provided. This gives flexibility and makes the coupler adaptable for use in many different circuits.

3K1715—List, \$3.50. **\$2.06**
Net, each.....



CAMFIELD CONDENSERS

Beautifully constructed. Rotor and Stator plates bright dipped brass. Other parts hand buffed and nickel plated. Shaft may be shortened, lengthened or removed altogether. Many condensers may be connected and operated by one dial Rotor mounted on ball bearings. Special adjustment eliminates necessity for trimmer and condensers. Brackets for baseboard or sub-panel mounting at slight additional cost. Instructions and adjustment tool with all double and triple condenser.

Model	Capacity (Single)	List	Net
3K1702	.00015	\$ 5.00	\$ 2.94
3K1703	.00025	5.50	3.24
3K1704	.00025	10.00	5.88
3K1705	.00025	14.00	8.24
3K1706	.00035	5.75	3.38
3K1707	.00035	10.50	6.18
3K1708	.00035	15.00	8.82
3K1709	.00035	18.00	10.59
3K1710	.00035	21.00	12.35
3K1711	.0005	6.00	3.53
3K1712	.0005	11.50	6.77
3K1713	.0005	16.00	9.41
3K1714	Mounting Brackets (pair)	.25	.15

Samson Single and Double Rotor Couplers

Wound with silk covered wire on bakelite tubing.

3K1350—Double Rotor Coupler, No. 31. List, \$7.50. Net, **\$4.78**

3K1351—Single Rotor Coupler, No. 81. List, \$6.00. Net, **\$3.83**

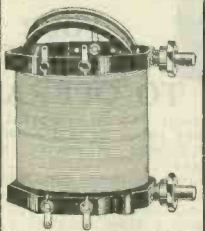


30 HENRY CHOKE
For requirements of "B" Eliminator and other circuits carrying up to 80 M.A. where chokes need inductances of 30 Henrys D.C. Resistance 200 V. Insulated Binding Posts for connections. Efficiency very high. Voltage drop very small.
3K1353—Choke No. 380. List price, less 35% and 2%.



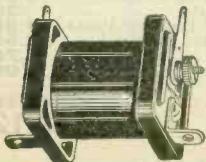
SAMSON "B" ELIM. TRANSFORMER

Rated at 40 watts. Furnishes 200 V. Plate supply at 80 M. A. from 60 cy. Power. Wound to furnish filament supply for UX or CX 380 Tube and another winding for one or two 171 tubes.
3K1352—Trans- former No. 132. List price, Less 35% and 2%.



R. F. CHOKE COIL

Bakelite end plates and tubing. Inductance 85 M.H.
3K1371—Choke coil No. 85. List, \$2.00. Net, \$1.28



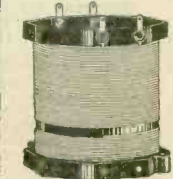
OTHER SAMSON ITEMS

Model	List	Net
3K1355 —R.F. Choke No. 500, 1/2 Henry.....	\$2.75	\$1.75
3K1356 —R.F. Choke No. 125, 250 M.H.....	2.25	1.44
3K1357 —Audio Freq. Choke 3 1/2 Henrys.....	3.25	2.07
3K1358 —Neutralizing Condenser No. 6.....	2.25	1.44
3K1359 —R.F. Transformer H.W.-R.I., each.....	4.50	2.87
3K1360 —Standard Transformer H.W.-A.3. 2-1	5.00	3.19
3K1361 —Standard Transformer H.W.-A.3. 3-1	5.00	3.19
3K1362 —Standard Transformer H.W.-A.3. 6-1	5.00	3.19
3K1363 —Plate Imped. Type P.....	5.00	3.19
3K1364 —Grid Imped. Type G.....	4.50	2.87
3K1365 —Dual Imped. Type D.....	5.00	3.19
3K1366 —Out Put Imped. Type O.....	5.00	3.19
3K1367 —30 Henry Choke 30 M.A.....	5.00	3.19
3K1368 —Speaker Filter No. 304.....		
3K1369 —A.B.C. Socket Power Unit No. 333.....		
3K1370 —30 Henry Choke 120 M.A.....		
3K1371 —"B" Elim. Trans. 500 V.....		

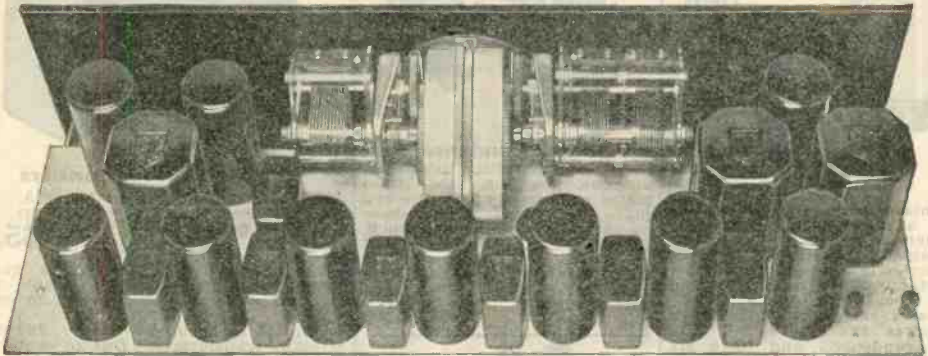
List Less 35% and 2% Cash

ANTENNA COIL

Made to match Double Rotor. Wound with silk covered wire on bakelite.
3K1354—Antenna Coil No. 71. List, \$2.85. Net, \$1.32



TYRMAN ONE SPOT TEN



Powerful Coast to Coast Receiver

"You Can Duplicate It"

Described in September Citizen's Radio Call Book

Compare this Tyrman one-spot Ten with any other receiver in the world for selectivity—tone quality—stability and beauty in appearance.

This Tyrman masterpiece of radio engineering was designed for those who demand the ultimate in radio receiving.

It has been tested and proved under the most severe receiving conditions.

Duplication of laboratory performance is guaranteed and insured by the Kurz-Kasch Capacity Connector which stabilizes the circuit, acts as a by-pass condenser and eliminates 90 per cent of wiring and soldering.

With beautifully decorated Panel and Ivory Bakelite Sub-Panel it presents an appearance not heretofore attained.

Kurz-Kasch Capacity Connector

This apparatus is destined to revolutionize radio set building. Invented by an outstanding pioneer, Mr. E. T. Flewelling, and made by the Kurz-Kasch Company for exclusive use with high grade receivers built of apparatus of Tyrman quality.

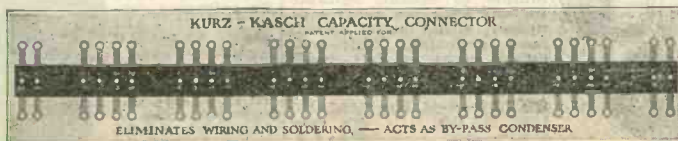
It will eliminate the greatest part of wiring with all its distributed capacities and fields where pick-up of signals within the receiver should be avoided. Speed of assembly is combined with surety, which prescribes conditions under which component parts of the circuit should operate. It automatically will make every receiver a duplicate of the laboratory model.

Kurz-Kasch Capacity Connectors enable the set builder to construct his receiver regardless of number of tubes in a fraction of time he needed heretofore. It combines rigidity, cleanliness with lack of opportunity for errors in wiring, lack of troublesome feedback of wiring, without a single constructive criticism. Finally, it stabilizes the circuit to an extent where a great number of by-pass condensers are eliminated.

All TYRMAN TRANSFORMERS are constructed in conformity with the terminal arrangement of this outstanding patented device.

LIST OF PARTS REQUIRED

	List
2 Tyrman Type 8-70 R. F. Transformers...	\$ 8.00
1 Tyrman Type 8-71 R. F. Transformer...	4.00
4 Tyrman Type 8-80 R. F. Transformers...	28.00
1 Tyrman Type 3-30 Audio Transformer...	8.00
1 Tyrman Type 3-50 Power Input Transformer	10.00
1 Tyrman Type 3-51 Power Output Transformer	10.00
1 Tyrman Vernier Drum, double.....	10.00
10 Tyrman Shielded Sockets.....	12.50
1 Kurz-Kasch Capacity Connector.....	7.50
1 7 x 26" Front Panel, drilled and decorated Bakelite	6.90
1 7 x 26" Sub Panel, Ivory Bakelite.....	6.20
2 Benjamin Brackets .....	.70
2 Carter 1 mfd. Condensers.....	2.50
1 Carter ½ mfd. Condenser.....	.90
1 Carter .00025 Mica Condenser.....	.40
1 Carter .001 Mica Condenser.....	.50
1 Yaxley No. 669 Cable Connector, complete	3.75
1 Polymet. 3 Meg Resistance with mounting	.28
1 Yaxley 6L Filament Resistance 1½ amp. 5 volts	.15
1 Yaxley 5L Filament Resistance 1½ amp. 5 volts	.15
1 Yaxley 200 ohm Potentiometer.....	1.75
2 Silver 50 mmf. Midget Condensers.....	3.00
1 Yaxley 25 ohm Rheostat with Switch...	1.75
2 Eby Binding Posts .....	.30
1 Type 351 Camfield .00035 Condenser...	5.00
1 Type 352 Camfield .00035 Two-Gang Condenser	10.00
1 Yaxley No. 7200 Grid Resistance.....	.25
Total list price.....	
\$142.48	
5% 1000—	
Your Net Price.....	
\$84.41	



SILVER-MARSHALL PRODUCTS



S-M Plug-In Coils

Interchangeable coils covering a range from 18 to 3000 meters. Space wound on moulded bakelite providing practically air-supported inductance. All coils designed for .00035 mfd. Variable condensers except No. 117 which requires the .00014 S-M No. 517 condenser, and have six contacts to fit S-M 515 socket.

Coil ranges are as follows:
 Type A—190-550 meters.
 Type B—70-200 meters.
 Type C—30-75 meters.
 Type D—500-1500 meters.
 Type E—1400-3000 meters.

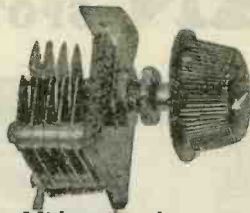
- | | |
|---|--------------------|
| 3K800—110A. | } List, \$2.50 |
| 3K801—111A. | |
| 3K802—114A. | |
| 3K803—115A. | |
| 3K804—116A. | |
| 3K805—118A. | } Net, each \$1.47 |
| 3K806—110B. | |
| 3K807—111B. | |
| 3K808—110C. | |
| 3K809—111C. | |
| 3K810—110D. | } List, \$5.00 |
| 3K811—111D. | |
| 3K812—115D. | |
| 3K813—116D. | |
| 3K814—115E. | |
| 3K815—116E. | } Net, each \$2.94 |
| 3K816—117M. | |
| 3K817—117N. | |
| 3K818—117O. | |
| 3K819—117P. | |
| 3K820—117 Coil Set, one each M, N, O, P, Range 18-150 Meters. | } List, \$11.00. |
| Net, each |  | $6.47 |

3K821—Coil Socket. All Coils.
 List, \$1.00.
 Net, each **59c**

3K822—101 B Coupler 150-550 Meters with .0005 Cond.
 List, \$2.50.
 Net, each **\$1.47**

3K823—105 Coupler, Range 190-550 with .0005 Cond.
 List, \$5.00.
 Net, each **\$2.94**

3K824—205 Antenna Coil, 190-550 .0005 Cond.
 List, \$2.50.
 Net, each **\$1.47**



Midget Condensers

For compensating, balancing, antenna, coupling, etc. Brass plates mounted on Bakelite end plate for Panel or Sub-base mounting complete with knob.
 3K825—Cap. .000003 to .000025 No. 340.
 3K826—Cap. .000004 to .000075 No. 342.

List, \$1.50.
 Net, each **89c**



Variable Condensers

Modified S. L. F. type providing equal spacing of stations over entire dial. Brass plates in rigid brass frame. Base or panel mounting. Capacity .000007 to .000035.

3K831—S-M No. 316A. Removable 3/4-in. shaft.

3K832—S-M No. 316B. Removable 3/4-in. shaft.

3K833—S-M No. 317. Same as 316A but cap. .000005 to .00014.
 List, \$4.50.
 Net, each **\$2.65**

3K834—S-M No. 320. Similar to 316A except lighter for single hole mounting. Shaft not removable. Cap. .00035.
 List, \$3.25.
 Net, each **\$1.92**

Choke Coils



S-M No. 275 R. F. Coil designed for short wave use up to 600 meters.

3K835—
 List price, 90c. Net, each **53c**

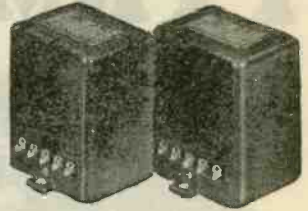
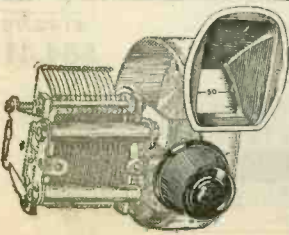
S-M No. 276 Coil for short wave use above 600 meters, otherwise similar to No. 275.

3K836—
 List price, \$1.00. Net, ea. **59c**

Drum Dial

Vernier drum dial furnished with attractive oxidized brass panel bezel. Simple to mount, suitable for any standard shaft condenser, either panel or sub base mounting. Universal, either right or left hand position. Can be illuminated. Lamp bracket supplied.

3K841—S-M No. 805.
 List, \$3.00.
 Net, each **\$1.77**



Push-Pull Transformers

3K827—Push-Pull input No. 230.

3K828—Push-Pull output No. 231.

List, \$10.00.

Net, each **\$5.88**

No. 230 suitable for highest quality Power amplifier or as a variable ratio straight audio 6:1 or 3:1 due to center tap.

No. 231 to be used with No. 230 or as straight transformer. Due to center tap the output impedance of the 112, 120, or 171 tubes can be accurately matched.

Out Put Transformers

For use between last power tube and loud speaker to prevent damage to speaker from D. C. Brings out absent low notes, improves tone quality. Secondary winding matches impedance of



W. E. cone No. 540 A.W. at 30 cycles.

3K829—S-M No. 221.

List, \$7.50. Net, each **\$4.41**

S-M No. 222. Same as No. 221 above but with 4 phone tip jacks and 5 ft. extension cord.

3K830—List price, \$8.00.
 Net, each **\$4.71**

Audio Transformers

Sold under a money back guarantee. Provides straightline amplification from 30 to 5,000 cycles. Ratio 3:1 for both first and second-stage operation with standard tubes. Primary inductance 100 Henries. Secondary, 900 Henries.



3K837—

S-M No. 220.
 List price, \$8.00. Net each **\$4.71**

Other S-M Transformers

3K838—S-M No. 325 Step-down Trans.
 List, \$8.00. Net, **\$4.71**

3K839—S-M No. 329A Power Trans.
 List, \$11.00. Net, **\$6.47**

3K840—S-M No. 330A Power Trans.
 List, \$11.00. Net, **\$6.47**

Long Wave Transformers

3K842—S-M No. 210 Iron Core Transformer supplied at any peak. 50-60 KC for 201A Tubes.

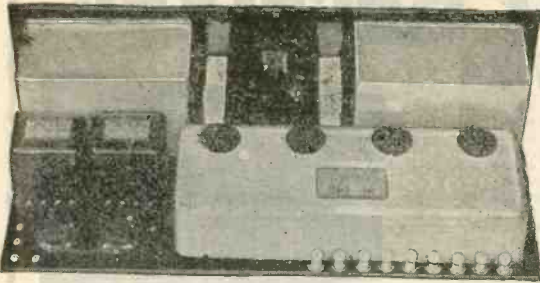
3K843—S-M No. 211. Peaked from 50 to 70 KC for any type tube.

List price, \$5.85

Net, each, \$3.53



Improved Silver Laboratory Model Super



As Described in the September Citizen's Radio Call Book

The performance of the Improved Laboratory Shielded Super is a positive revelation! The selectivity is sufficient so that the receiver, if pushed

List of Parts Required

1 Van Doorn panel and chassis unit, pierced with hdwe.	\$ 8.50
1 Carter .00015 condenser with leak clips. ....	.50
1 Carter M200 potentiometer. ....	.75
2 Carter ½ mf. condensers @ 90c.	1.80
1 Carter 3 ohm rheostat. ....	.50
4 Carter No. 10 tip jacks @ 10c. ....	.40
1 Carter battery switch. ....	.50
1 Polymet 2 megohm leak. ....	.25
2 S-M 220 audio transformers @ \$3.00.	16.00
4 S-M 511 tube sockets @ 50c.	2.00
2 S-M 805 Vernier drum dials @ \$3.00.	6.00

Complete building instructions included.

(If shielded oscillator and first detector are desired, add \$2.40 for two S-M type 631 stage shields.)

to the limit, can easily be made to cut sidebands upon local stations.

The Improved Laboratory Super consists of a standard regenerative first detector circuit and a conventional oscillator, both circuits having all tuning controls at ground potential and free of hand capacity. These two tubes are followed by the new S-M 440—(112 Kilocycle)—three stage, long wave amplifier and detector—a completely shielded laboratory measured and calibrated long wave or intermediate frequency amplifier in one single unit—and the conventional two stage audio amplifier with the famous S-M 220 transformers. While the receiver is designed to employ 201A, 240, 112 or 171 tubes, it may also easily be adapted to complete AC operation with the new AC tubes soon to be on the market. It is intended for operation upon a 20 to 40-foot antenna in preference to a loop as a small antenna will give greater selectivity and sensitivity. While the first detector and oscillator units are shown shielded, the two stage shields need only to be used in congested broadcasting centers, such as Chicago, New York, or Los Angeles.

1 S-M 275 R F Choke.	\$ 0.90
1 S-M 342 condenser.	1.50
1 S-M 440 time signal amplifier.	35.00
2 S-M 515 coil sockets @ \$1.00.	2.00
2 S-M 111A coils @ \$2.50.	5.00
9 X-L binding posts @ 15c.	1.35
2 S-M 320 .00035 condensers @ \$3.25.	6.50

Total list price. \$39.45

5K845—
Parts complete, your net price. **\$52.38**

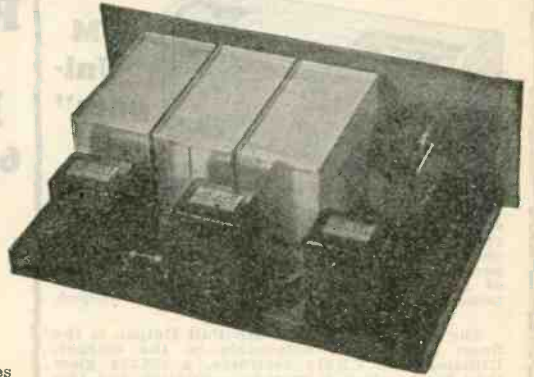
SILVER-MARSHALL'S IMPROVED 630—SHIELDED SIX

5K850—Kit complete, retail price, \$60.52
\$95.00. Net

The 1927-28 Improved Model of the famous Shielded Six is one of the highest types of broadcast receivers ever developed. Three stages of shielded tuned radio frequency amplification, with manual sensitivity control providing peak efficiency over the entire broadcast wavelength range give extreme sensitivity and selectivity to the receiver.

Two-dial control of the Shielded Six is provided by a link motion which gangs together the second, third and detector stage condensers. So accurate is the matching of the coils and condensers provided in each No. 630 factory matched kit that no balancing or compensation is required. The receiver is assembled upon a pierced and formed steel chassis with decorated metal panel and removable aluminum shields. A single knob varies the volume from a whisper to a roar, the filament adjustment of all tubes (5-CX301A and 1-CX371) being non-critical and automatically controlled. The "Six" is remarkably simple to construct, smooth in operation, functioning perfectly with a short indoor aerial or 50-foot outdoor antenna, adequately selective to separate all the locals, and sensitive enough to pull in far distant stations, through local broadcasting. With its amazingly faithful quality of reproduction,

The parts contained in the complete No. 630	
3 No. 631 Stage Shields.	\$ 6.00
2 No. 316A Condensers, matched.	9.00
2 No. 316B Condensers, matched.	9.00
4 No. 515 Coil Sockets.	4.00
3 No. 118A Coils, matched.	7.50
1 No. 116A Coil, matched with above.	2.50
6 No. 511 Tube Sockets.	3.00
2 No. 220 Audio Transformers.	16.00
1 No. 221 Output Transformer.	7.50
1 No. 632 Triple Link Motion.	2.50
1 Polymet ¼ meg. Gridleak. ....	.25
1 Polymet Resistor Mounting. ....	.50
1 Carter .002 mfd. Condenser. ....	.50
3 Carter No. 105 Condensers, ½ mfd.	2.70
1 Carter M-200 Potentiometer (200 ohms). ....	.75
2 Carter No. 10 Tip Jacks. ....	.20
1 Carter H½ Resistor. ....	.25
2 Marco Walnut Vernier Dials.	5.00
1 636 Terminal Strip, with Terminals, size 1½ x 11 inches.	2.00
1 633 drilled and engraved metal panel, size 7 x 21 inches.	8.50



The Shielded Six is a real receiver—difficult to equal at any price.

The Shielded Six may be built as a completely light-socket-operated batteryless receiver by employing the new A.C. tubes and type 652A or 656A. ABC power supply units. The A.C. kit containing all parts for the regular 630, plus extra resistance, etc., is No. 630 A.C.

The Shielded Six are as follows:	
1 634 Steel Chassis, size 12x19¼x1¼ inches.	6.00
1 Carter No. 12 Antenna Switch. ....	.60
1 Carter Imp. Battery Switch. ....	.50
1 Coil Kellogg fabricated hook-up wire with screws, nuts, lugs and complete building instructions. ....	.25

Total **\$95.00**

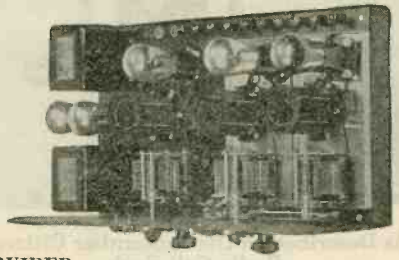
5K850—630 IMPROVED SHIELDED SIX KIT.
Comprises all matched parts listed above, complete and ready to build (less tubes). Packed in wooden shipping case with label (instructions included, weight, 45 lbs.)
List price, \$95.00. Net. **\$60.52**

5K851—630AC IMPROVED SHIELDED SIX KIT.
Contains all parts in regular 630 kit, plus extra C bias and balancing resistors and 512 socket for detector tube. Intended for use with 4-CX326, 1-C327, and 1-CX371 power tube. Packing and weight same as 630.
List price, \$97.00. Net. **\$61.69**

The S-C II Receiver

5K855—KIT COMPLETE \$37.24
List \$64.35—NET.

Representing the combined engineering skill of McMurdo Silver & Lawrence M. Cockaday, the S-C II is a two-dial five-tube receiver (two stages of radio frequency, amplification detector, and two stages transformer coupled audio frequency amplification) designed to equal or outperform any five-tube receiver on the market. The sensitivity of the S-C II is exceeded by no other five-tube set, its selectivity is ample for present day broadcasting conditions and its tone quality is guaranteed, exceeded only by the Shielded Six. Editors and authorities throughout the United States and Canada have commended S-C II with highest praise in scores of periodicals and newspapers, and thousands of satisfied owners are demonstrating its quality to their friends.

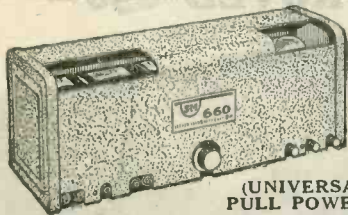


LIST OF PARTS REQUIRED

2—316 B Condensers, matched	\$9.00	1 Van Doorn pierced and decorated Steel Panel (size 7"x18"; weight 1 lb. 4 oz.)	3.00
1—316 A Condenser	4.50	2—National Vernier Dials, type B, clockwise	5.00
1—637 Double Link Motion	2.00	1—Carter 1/2 Resistor .....	.25
3—515 Coll Sockets	3.00	1—Carter M-200-S Potentiometer	1.25
4—511 Tube Sockets	2.00	1—Carter Tip Jacks .....	.20
2—220 Transformers	16.00	1—Benjamin 9040 Socket .....	.75
1—116 A Plug-in Coil	2.50	2—Polymet 1 mfd. Condensers	2.00
2—118 A Plug-on Coils, matched	5.00	10—Eby Binding Posts	1.50
2—631 Stage Shields	4.50		
1—Van Doorn Pierced Steel Chassis (size 17"x9 1/2"x1 1/2"; weight 3 lbs. 5 oz.) with nuts, screws, lugs and insulating washers	2.00	Total List Price	\$64.35

For long wave reception one S-M No. 116D and two No. 115D Plug-in coils provide a range from 500 to 1500 meters; or one S-M No. 116E and two No. 115E coils provide a range from 1400 to 3000 meters. Through the application of the 652A or 656A, A.B.C. power units, the S-C II may be built as a completely light-socket-operated batteryless set with standard A. C. tubes.

For stock numbers and prices on extra coils mentioned above to extend range, see page in this book covering Silver-Marshall parts and for 652A and 656A see Reservoir "B" power supply wired or unwired, shown on this page.



S-M "Unipacs"

(UNIVERSAL PUSH-PULL POWER PACKS)

Four S-M "Unipacs"—two kits, and two assembled ready-to-use units—with attractive crackle-brown steel cabinets and pierced steel chassis, provide a quality of distortionless power amplification and an extraordinary degree of power handling capacity never before attained by power packs previously developed.

660-210 UNIPAC

The S-M No. 660-210 Push-Pull Unipac is the finest power pack obtainable on the market. Utilizing two CX316 rectifiers, a CX374 glow tube for receiver B voltage regulation and two CX310 tubes in a push-pull amplifier, it provides unequalled bass note reproduction and undistorted volume.

3K875—No tubes included. \$46.60
 List price, \$79.25. Net

660-171 UNIPAC

The S-M No. 660-171 Push-Pull Unipac provides a power pack vastly superior to any other 171 type pack on the market. Though the voltage amplification is 9 (with 171 tubes) as compared with a voltage amplification of 21 in the No. 660-210 Unipac, the volume is amply sufficient for ordinary home reproduction, and the handling capacity is considerably greater than most 210 power packs. Its extra tube socket permits the No. 660-171 Unipac to be used as a complete two-stage power amplifier or as a phonograph amplifier by the addition of a CX326 tube.

3K875—No tubes included. \$36.46
 List price, \$62.00. Net price

3K871—660-210 (wired). 54.48
 List price, \$89.25. Net price

3K876—660-171 (wired). 41.16
 List price, \$70.00. Net price

AFTER Sept. 1st these kits will be changed so they will become ABC supplies for AC sets. Price will increase \$2.40 on the 210 and \$1.20 on the 171.

Reservoir A.B.C. Power Supply Kit

652A



The kit as listed here supplants the Reservoir "B" Power supply kit. The 329A Transformer included in addition to supplying 45 and 90 volts will furnish 220 volts maximum for a CX371 or 171 Sonatron Power amplifier (40 for grid bias, 180 for Plate potential). The kit uses also a CX374 Glow Tube, a Q.R.S. or Sonatron 85 M.A. Gaseous Rectifier tube. It will deliver 1.5, 2.5, and 5 volts AC from three separate windings and therefore performs as a complete ABC Power unit for any receiver using AC Tubes.

LIST OF PARTS

1—No. 329 A Power Transformer	\$11.00
1—No. 331 Unichoke	8.00
1—No. 332 Condenser Bank	12.50
2—No. 511 Sockets	1.00
1—No. 553 Resistor	2.50
1—No. 654 Steel Base, with 4 binding posts, hardware, hook-up wire and assembly instructions	1.50

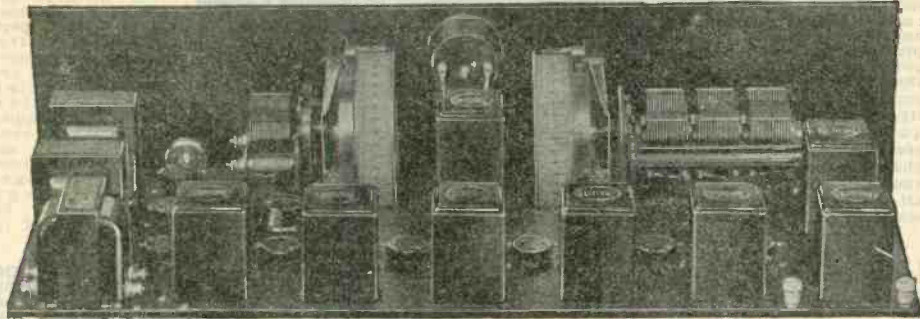
Total list price

3K860—Kit complete. \$21.46
 Net

3K861—Same as above but wired. 23.81
 Net

New World's Record Super 10

List **\$138.80** Radio's Most Powerful Receiver Your Price **\$90.32**
 2% Cash \$1.80
 Net **\$88.52**



Holds All Principal World's Long Distance Records

DISTANCE—Here is the receiver for the man who wants the most powerful and sensitive set it is possible to build. Many claim to have received certain foreign stations once or twice, but the World's Record Super proved its claim to consistent range by bringing in stations distant 6,000 miles or more, night after night. Below are a few of the principal records made by this remarkable receiver.

(1) World's Record for the greatest distance voice has been heard with a receiver using LOOP aerial only. WCBF was heard at Tasman, New Zealand—an air line distance of 8,375 miles—on March 17th.

(2) World's Record for the greatest number of stations heard which are distant 6,000 miles or more. A total of 19 stations were brought in.

(3) World's Record for the greatest number of broadcasting stations distant 6,000 miles or more, that have ever been logged on any one evening. Six foreign stations were logged in two hours and a quarter.

(4) During a period of three months a total of 117 programs were heard and logged, all stations being 6,000 miles or more distant.

All these records are fully verified and attested. A leaflet telling the story of the remarkable achievements in detail, together with the proofs of reception will be mailed on request.

KEEN, NON-CRITICAL SELECTIVITY

Consistent long distance reception is only ONE of the attributes of the World's Record Super 10. The amazing sensitivity of this remarkable radio, making possible these astounding feats of long distance reception is further enhanced by keen non-critical selectivity. The World's Record Super 10 tunes through the local stations with ease and simplicity, and brings in distant stations only a few meters apart. Here is a super radio designed to accommodate the conditions of the present day.

TREMENDOUS UNDISTORTED VOLUME

Then ten tubes used in the World Record Super 10 are all connected in a circuit that has as its basic purpose the interception and amplification of distant signals, and this ultimate purpose is so expertly achieved that the reception actually improves the timbre and quality of the selections that are received.

A Radio to be entertaining must be pleasant to listen to. The World's Record Super 10 is more than a pleasure—it is a revelation in tonal qualities.

EASY TO ASSEMBLE

Complete building instructions and full sized



Front View of the World's Record Super 10

working blue prints show exactly where to place each part, and how to execute each operation of assembly so that you cannot go wrong. These prints are so easily followed that anyone without previous experience can make an EXACT DUPLICATE of this unparalleled radio, and be the proud owner of the finest and most powerful radio available today.

A LIST OF THE REQUIRED PARTS

1 Formica Panel, drilled and engraved, 26x7x 3/16, \$6.70; 1 Formica sub-panel, 25x10x3/16, \$7.00; 1 Remier 3 in line condenser No. 633, .00035, \$15.00; 1 Remier condenser No. 638, .00035, \$5.00; 2 Remier drum dials No. 110 (1 each 110 and 110R), \$9.00; 2 Remier R. F. Choke Coils No. 35, \$1.80; 2 Thordarson audio transformers R200, \$16.00; 1 Thordarson output transformer No. 76, \$6.00; 2 Selectone L. W. Transformers No. B500, \$12.00; 2 Selectone L. W. Transformers No. B510, \$12.00; 2 Selectone R. F. Transformers No. E20, \$10.00; 1 Selectone Antennae coupler No. E30, \$5.00; 1 Selectone Oscillator coupler No. 540, \$5.00; 10 Benjamin Sockets (without bases), \$5.00; 1 pair Benjamin brackets No. 8629, \$0.75; 1 Carter Rheo. IR-15-S Ohms, \$1.50; 1 Carter Rheo. 30 ohms, \$1.00; 1 Carter Power Rheostat MW-1 Ohm, \$0.75; 1 Carter Imp. Pot. IR-400 Ohms, \$1.25; 1 Carter fixed condenser .00025 with grid clips, \$0.50; 1 Carter fixed condenser .002, \$0.50; 1 Pr. No. 10 Carter pin jacks, \$0.20; 1 SM Balancing condenser No. 340, \$1.50; 1 Jewel Voltmeter 0.8 Volts Pat. 135, \$7.00; 4 Tobe By-Pass condensers 1 Mfd., \$3.60; 1 Tobe grid leak, \$0.50; 1 Jones 10-contact plug and 4 ft. cable type BM, \$3.50; 40 Kellogg soldering plugs, \$0.25; 30 feet Belden rubber covered hook-up wire, \$0.25. Blue Prints, \$0.25.
5K1200—Parts complete. \$88.52
 List, \$138.80. Net.....

Matched Selectone Units

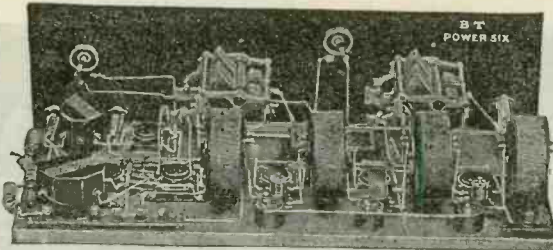
For Sub-Panel Mounting	List	Net
3K1201 —Selectone B-500 Intermediate Frequency Transformer	\$6.00	\$3.83
3K1202 —Selectone B-510 Tuned Filter	6.00	3.83
3K1203 —Selectone B-520 Radio Frequency Transformer	5.00	3.19
3K1204 —Selectone B-530 Antenna Coupling Unit	5.00	3.19
3K1205 —Selectone B-540 Oscillator Unit	5.00	3.19

The widely known accuracy of design and precision of manufacture represented in all Scott products is embodied in each of the above devices, essential in the construction of the New World's Record Super 10. Housed in a highly polished Bakelite case with all terminals plainly marked.



B-T Counterphase Power-Six

The Power-Six offers the latest improvements in radio. It includes the basic superiority of the original counterphase circuit with the additional refinements now possible through improvements in tubes, resistances and other parts. It provides for using power tube output, thus greatly improving tone quality. The superior qualities of the previous Counterphase-Six are well known. The new kit is more simple, easier to construct.



balance and operate. It is designed for the greatest selectivity and through the use of Toro-style coils does not require shielding.

This set will give long distance operation with indoor aerial and is superb in tone quality, volume and selectivity. There are but two tuning controls which makes tuning quite easy. When constructed the set presents a most pleasing appearance and any owner will be justly proud of it.

PARTS REQUIRED

1 2 Meg Grid Leak	.....	\$ 4.50
1 Jones Multi Plug or Plug-in	.....	.40
2 C Batteries—4½ volts	.....	1.20
Screws, Celatsite, etc.	.....	1.00

Also following kit:

1 TA Torostyle Transformer	.....	4.00
3 TC Torostyle Transformers	.....	12.00
2 LD-17 Condensers	.....	19.00
1 Panel, 7x24, Drilled and Engraved	.....	5.68
1 Wood Baseboard, 9¾x23½	.....	1.25
1 B-T Euphonic Audio Transformer; 2.2 to 1	.....	5.00
1 B-T Euphonic Audio Transformer; 4.7 to 1	.....	5.75
2 B-T Tuning Controls	.....	5.00
6 B-T UXA or UL Sockets	.....	4.50
1 Double Circuit Jack	.....	.70

1 Single Circuit Jack	.....	1.00
1 Filament Switch	.....	.65
1 3 Ohm Rheostat	.....	1.00
1 Single Pole Double Throw Jack Switch	.....	.90
1 .001 MFD Fixed Condenser	.....	.40
1 .00025 MFD Fixed Condenser	.....	.40
3 .0006 MFD Fixed Condensers	.....	2.25
2 1 MFD Fixed Condensers	.....	4.50
3 B-T MMF Condensers	.....	3.00
3 B-T R.F. Choke Coils	.....	2.70
1 500,000 Ohm Resistance	.....	2.00
3 1500 Ohm Resistances	.....	1.50
1 Set Color Charts and Diagrams	.....	.90
3K1300—All Parts Complete as listed. List, \$66.68. Net		\$55.00
3K1301—Power Six Kit Only. List, \$45.10. Net		28.40

POPULAR BREMER-TULLY PARTS

	List	Net
3K1302—Tuning Controls	\$2.50	\$1.59
3K1303—B.T. Choke	.90	.57
3K1304—Universal Socket	.75	.48
3K1309—Euphonic Audio Transformer, 2.2 to 1	5.00	3.19
3K1310—Euphonic Audio Transformer, 4.7 to 1	5.75	3.63
3K1314—B.T Mikro-mike	1.00	.64

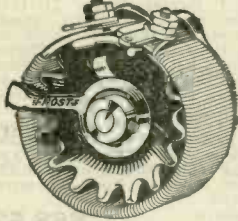
B. T. CONDENSERS

	List	Net
3K1305—.000125	\$4.25	\$2.70
3K1306—.00025	4.50	2.85
3K1307—.00035	4.75	2.99
3K1308—.0005	5.00	3.19

TORO-STYLE TRANSFORMERS

	List	Net
3K1311—TA Antenna Coupler	\$4.00	\$2.55
3K1312—TC Inter. Stage	4.00	2.55

FROST DE LUXE RHEOSTATS



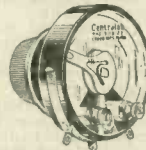
Here are the new Frost Radio DeLuxe Rheostats and Potentiometers. All resistances are wound on the new flexible bakelite (not fiber) which will not warp or distort. Exposed metal parts of metal frame rheostat and potentiometers are nickel plated. All units equipped with black bakelite knob with engraved white arrow indicator.

BAKELITE		
3K4000—2 ohm	.....	List, 75c
3K4001—4 ohm	.....
3K4002—6 ohm	.....
3K4003—10 ohm	.....
3K4004—15 ohm	.....
3K4005—25 ohm	.....
3K4006—50 ohm	.....	Net, 45c
POTENTIOMETERS		
3K4007—200 ohm	.....	List, \$1.00
3K4008—400 ohm	.....	Net, 59c
METAL		
3K4010—2½ ohm	.....	List, \$1.00
3K4011—3½ ohm	.....
3K4012—6 ohm	.....
3K4013—10 ohm	.....
3K4014—20 ohm	.....
3K4015—30 ohm	.....
3K4016—75 ohm	.....	Net, 59c
POTENTIOMETERS		
3K4017—200 ohm	.....	List, \$1.25
3K4018—400 ohm	.....	Net, 74c

FROST EXTENSION CORDS

	List	Net
3K4020—10-ft. length	\$2.00	\$1.18
3K4021—20-ft. length	2.25	1.33
3K4022—30-ft. length	2.50	1.47
3K4023—50-ft. length	3.00	1.77

Centralab Modulator



A three terminal variable resistance providing smooth, noiseless volume control from a whisper to maximum.

3K4025—0 to 250,000 Ohms max. List, \$2.00. Net, \$1.27

3K4026—0 to 500,000 Ohms max. List, \$2.00. Net, \$1.27

CENTRALAB RADIOHM
A variable resistance assuring long life and noiseless operation from 0 to maximum.

3K4027—0 to 2,000 ohms max.

3K4028—0 to 25,000 ohms max.

3K4029—0 to 100,000 ohms max.

3K4030—0 to 200,000 ohms max.

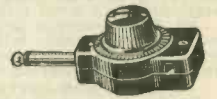
3K4031—0 to 500,000 ohms max. List, \$2.00. Net, each, \$1.27

STATION SELECTOR

A small compact unit designed to change the resonance of the antenna circuit. Minimizes interference of powerful nearby stations.

3K4037—List, \$1.00. Net, 59c

CENTRALAB MODU-PLUG



Is essential to enjoy the full toned reproduction of modern high powered broadcasting. The Centralab Modu-Plug (Modulator Plug) can be quickly attached to any radio set and gives any degree of tone volume from a whisper to maximum by simply turning the small knob on the plug.

A Modu-Plug gives complete control at the output of your set by a single turn of the small knob, prevents distortion due to overloading the loud speaker, and helps match the impedance of the speaker to the output impedance of the set. Interfering noises are reduced and programs come in clear and true.

3K4039—Modu-Plug.

3K4040—Cord Type. List, \$2.50. Net, \$1.47

POLY CLARO PLUG



Will improve the tone quality of any loud speaker. Eliminates foreign noises. Especially useful for summer reception. Very neat in appearance. Phone tips plug into end of plug.

3K4041—List, \$1.50. Net, 89c

Radio News Strobodyssey Eight

"The Greatest Circuit of the Year"

This sensational receiver was only recently developed, and has been endorsed by many leading radio engineers. The Radio News has written many articles giving complete instructions for building. Combined in this receiver you will find the five following features:

1. An entirely new frequency changer operating on a new and original principle.
2. A circuit unexcelled for distance with great selectivity, out-performing the best superheterodynes in use today.
3. Remarkable sensitivity.
4. Stations come in at but one place on the dials.
5. Tremendous volume with no distortion.

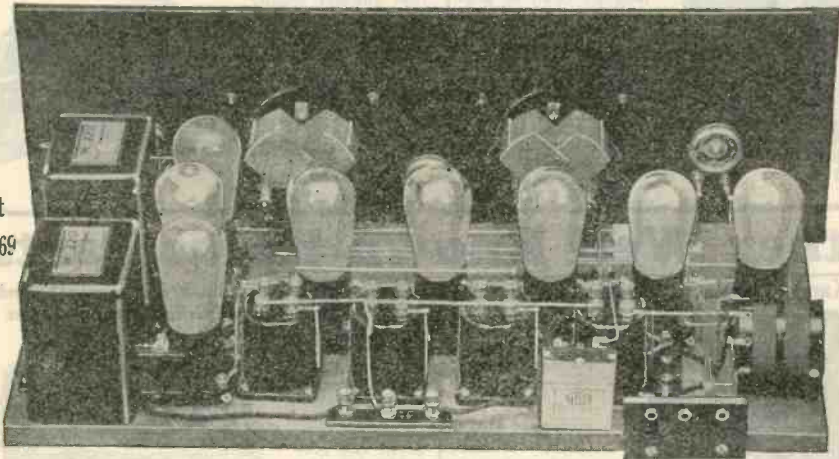
The following list of parts are taken from the August issue of the Radio News:

List of Parts Recommended

3 Hamerlund .00035 variable condensers, 1 set of three Auto couple coils (special built), 4 R. E. L. R. F. Units (plug in type F), 5 R. E. L. fixed condensers matched, 3 Hamerlund shields, 2 Thordarson R. 200 Audio Transformers, 1 Thordarson Output filter, 1 B. T. Choke, 1 Daven Compensating condenser, 3 Carter Imp. 20 Ohm rheostats, 1 Carter 400 Ohm Potentiometer, 4 Carter By-Pass, 5 Mfd. Cond., 1 Carter fixed condenser .002 Mfd., 8 Benjamin sockets, 1 Carter filament switch, 4 Daven filament Ballasts 5 volt 1/4 amp., 1 Daven Filament Ballast 5 volt 1/2 amp., 2 Daven Balancing Cond., 1 Carter variable resistance 100,000 ohms, 1 Formica plain front panel 8x24x3/16 not drilled, 1 Formica sub-panel 12x25 1/4x3/4 not drilled, 6 dozen screws, 2 rolls Belden rubber-covered hook-up wire, 1 brass shaft.

5K1150—Parts Complete. List \$116.03. Net..... **\$68.56**

The World's Record Super 8



List
\$79⁶⁵

Your
Price
\$51⁸⁰
2%
\$1.03
Net
\$50⁷⁷

The superheterodyne is acknowledged by leading radio engineers the most selective and powerful receiver it is possible to build. The circuit used in the World's Record Super 8 is practically the same as that used in the famous set that established the four world's records for long distance reception, and is one of the most efficient supers ever developed.

The Selectone Transformers used in the I. F. stages are supplied in perfectly matched sets consisting of two intermediate frequency and two sharply tuned filter transformers, and gives the set hair-line selectivity, making it particularly suitable for use in locations where a number of powerful broadcasting stations make it difficult for an ordinary receiver to cut through. These transformers in addition to being tested and matched with the finest precision laboratory testing equipment, are given a final test in a special testing receiver, making sure that every set of transformers will operate perfectly when built into a receiver.

It brings in distant stations any night in the week with good volume. The use of Silver Marshall audio transformers give it exceptional tone quality.

PARTS REQUIRED

2 Remler condensers No. 631, \$10.00; 1 Hamerlund Midget condenser .00050, \$1.80; 2 Selectone transformers R400, \$12.00; 2 Selectone transformers R410, \$12.00; 1 Selectone Oscillator Coupler No. 340, \$3.50; 2 S. M. Audio trans-

formers No. 220, \$16.00; 8 Benjamin Sockets, \$6.00; 2 Tobe By-Pass condensers, 1 mf., \$1.80; 1 Carter Fixed Condenser .002, \$0.50; 1 Carter Hi-Ohm 500,000 ohms, \$2.00; 1 Carter Rheo IR30, \$1.00; 1 Carter Rheo IR6S, \$1.50; 1 Carter Fixed resistance 1-1-3 ohms, \$0.25; 3 Carter-tip jacks No. 10, \$0.20; 1 Carter Jack No. 1, \$0.25; 3 XL Binding posts, \$0.45; 2 Kursh Kash Dials, \$4.00; 1 Bakelite panel 7x24x3-16, \$3.94. 1 wood baseboard 9x23, \$1.00; Bus bar and lugs, \$1.00; Blue print, \$0.50.

5K1250—Parts complete. **\$50.77**
Net

SELECTONE TRANSFORMERS

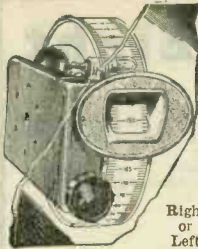
These transformers are a laboratory product and to insure maximum efficiency are supplied in matched sets.

3K1251—Selectone R400 Intermediate Frequency Transformer. List, \$6.00.
Net

3K1252—Selectone R410 Tuned Filter Transformer. List, \$6.00. Net.....\$3.83

3K1253—Selectone Oscillator Coupler. List, \$3.50. Net





A Drum Dial

The Remler Drum Dial gives a full 15 inches of dial space, divided into 200 divisions—2 for each broad-

Right cast channel.
or Embossed dial
Left indicator

plate adds to the beauty of any panel. Calibration strips are rigidly mounted, yet easily removable and renewable. Call letters are readily written in. Spiral gear drive gives quiet operation and no back-lash. Socket and 6-volt lamp furnished for illumination. Easily mounted; round drilled hole required for panel plate. Will drive all standard makes of condensers either single or in gangs.

3K1275—
List, \$4.50. Net..... **\$2.86**

Remler

Infradyne Amplifier



This instrument is the result of the development of a simple and effective method for controlling amplification at high frequencies. It is unique in that amplification is accomplished at the fixed and very short wave length of 36 meters.

3K1276—
List, \$27.50. Net. **\$17.52**

3K1277—New shielded R. F. Amplifier.
List, \$55.00. Net. **\$35.00**



Choke Coil

The No. 35 Choke Coil is of distinct utility in limiting radio-frequency currents to certain paths and in preventing the generation of high parasitic frequencies. The case is of moulded Bakelite. Size: 1" in diameter by 1" in depth; inductance, 1½ millihenries D.C.; resistance: 22 ohms.

3K1278—
List, 90c. Net..... **57c**

Improved Socket

The No. 50 Remler Socket is designed for use with the X-type standard base tubes. Made of moulded Bakelite; compact, easily installed.

3K1279—List, 50c. Net. **32c**

Twin-Rotor Condenser



Both sets of plates rotate. Rotation of the dial through a full 360° gives greater separation of stations at all wave lengths than is possible with the usual 180° dial.

S. L. F. TYPE
3K1280—.00035 max.
3K1281—.0005 max.
3K1282—.0001 max.

S. L. WAVE LENGTH
3K1283—.00035 max.
3K1284—.0005 max.
List, \$5.00.
Net, **\$3.19**

3-in-Line Condensers

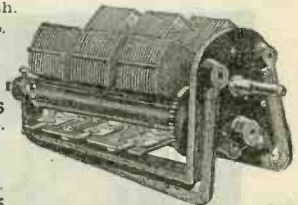
Complete insulation of each rotor permits its use with any system of neutralization. All insulation is of maximum capacity of each section, .00035 mfd. Size over all, 7" deep by 3½" wide. Ample space is allowed between sets of plates. Frame is die-cast aluminum with black crystalline enamel finish.

3K1285—S.L.W.L.
3-gang.

3K1286—S.L.F.
3-gang.
List, \$15.00
Net, each, **\$9.56**

3K1287—S.L.W.L.
2-gang.

3K1288—S.L.F.
2-gang.
List, \$12.00.
Net, each, **\$7.65**



Other Well Known Karas Parts

New Karas Harmonik Audio Transformer

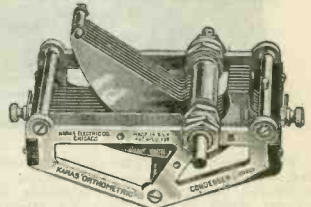


This well made transformer amplifies all the overtones and harmonics. Beautifully finished and easily mounted. All stage Ratio.

3K1607—
List, \$5.00.
Net... **\$2.94**

These new condensers have been designed especially for the EQUAMATIC SYSTEM and have an extended shaft over which is fitted the primary of the KARAS Equamatic Coil. This adjustable primary coil has an arm and collar with a set screw for this purpose.

New Karas 17-Plate Special Extended Shaft Orthometric Condensers



These condensers distribute the wave lengths evenly over the complete scale of the dials so that there is positively no crowding at any point. Every point on the dial is a separate wave length and this is especially desirable in the EQUAMATIC circuit because of its extreme selectivity. Three are required. Price \$7.00 each.

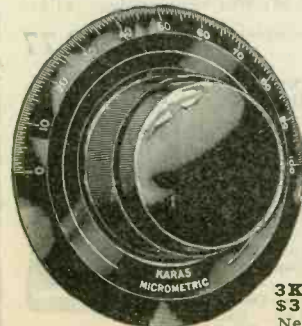
3K1610—Cap., .0005. List, \$7.00. **\$4.12**
Net

3K1611—Cap., .00037. List, \$6.75. **\$3.97**
Net

3K1612—Spec. 17 Plate for Equamatic. List, \$7.00. Net..... **\$4.12**

3K1613—Cap., .00025. List, \$6.50. **\$3.83**
Net

New Karas Micrometric Vernier Dial

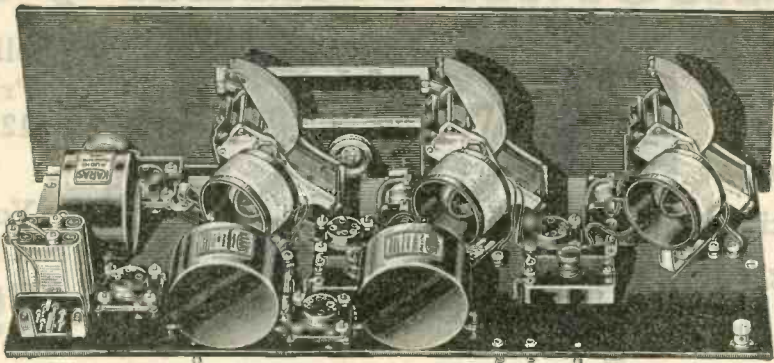


Ratio is 63 to 1. continuous, and tunes accurately to the thousands and th part of an inch. Small knob controls vernier; rough tuning is done with larger knob. Gold inlay moulded Bakelite. Outside diameter, 4½ in.

3K1609—List price **\$3.50.**
Net price **\$2.06**

Citizens' Radio Call Book

New Karas 2-Dial Equamatic



Completely balanced and perfectly neutralized, insuring easy tuning and marvelously simplified control with equal and maximum efficiency over entire broadcast waveband.

All of the superb tone quality and magnificent volume of the KARAS EQUAMATIC 5-Tube Sensation can now be had in the NEW 2-DIAL MODEL with 24-inch panel. To the remarkable performance of the Equamatic has been added in this new receiver a complete neutralization that not only makes the receiver delightfully easy to tune, but also gives a clearer, purer and more richly beautiful tone. The reduction in size of panel and baseboard to 24 inches in the Karas 2-Dial Equamatic and the vastly

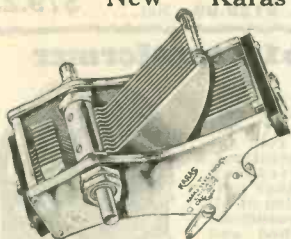
improved reception of this completely neutralized receiver will make it one of the most popular of all tuned radio frequency receivers during the 1927-28 season.

The building of a Karas 2-Dial Equamatic is an extremely simple matter.

All parts for the construction of this unusual receiver are in stock and the kit will be supplied as listed in the Citizens Radio Call Book except the use of Carter's new moulded condensers to replace Sangamo. You will be delighted with the performance of this new Karas creation.

5K1600—Total list, \$98.43. **\$58.31**
Net Price

New Karas Condenser



This marvelous new Karas Condenser has a removable shaft allowing for sub-panel, baseboard or single hole mounting from either side, permitting use of 0-100 or 100-0 dials.

The plates are so precisely laid out that when the condenser is tuned with the proper inductance the adjoining wavelengths are all separated by equal distance on the dial. Thus every point of a 180 degree 100 division dial covering the 100 wavelengths between

200 and 600 meters is equally separated from its nearest adjoining point in either direction by exactly 10 kilocycles. They are precision built, scientifically engineered, and beautifully finished.

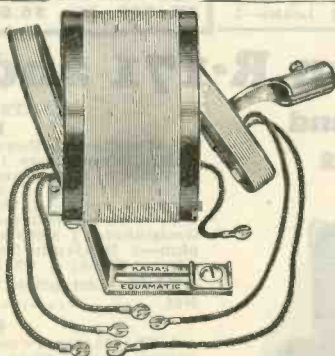
	List	Net
3K1602 —Type 11 .00025 mfd.....	\$5.00	\$2.94
3K1603 —Type 17 .00037 mfd.....	5.25	3.11
3K1604 —Type 23 .0005 mfd.....	5.50	3.24

New Karas Equamatic Inductance Coils

These coils used in conjunction with the new Karas 17-plate Special Extended Shaft Orthometric Condensers, and the Karas Retard Coils form the EQUAMATIC SYSTEM of tuning. By means of an entirely separate variable rotating primary and an adjustable secondary, the inductive coupling of these two windings is varied so that the tube always operates at a point just below the oscillation peak at ALL DIAL SETTINGS from 200 to 600 meters. The result is a strong, clear and wonderfully pure signal.

KARAS EQUAMATIC COILS are packed three in a box with complete manual of simple diagrams and instructions for building the five-tube KARAS EQUAMATIC RECEIVER. Included with this kit are all necessary nuts, screws and binding posts for mounting.

3K1608—Kit of 3 coils. List, \$12.00. Net, **\$7.06**



New Karas No. 28 Transformer



Designed to provide undistorted amplification of both low and high notes and with tremendous volume. Very compact. Finished in Black Duco. Extra length soldering lugs. Completely impregnated with high quality insulating compound. Case hermetically sealed. Transformers may be placed close together, even in contact without harm. Highest grade low ratio transformer made.

3K1605—List, \$8.00. **\$4.71**
Net

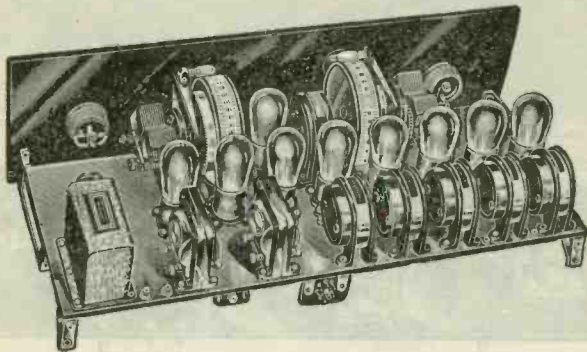
New Karas "Output Filter"

Appearance, size and construction same as transformer above. Eliminates unpleasant chatter of speaker due to excessive "B" voltage. Sldetracks D.C. Component of plate current. A fitting companion for the No. 28 Transformer. Very compact, containing special choke of 100 henries. Insulation is genuine bakelite.

3K1606—List, \$8.00. **\$4.71**
Net

MAGNAFORMER 9-8

43
DX
Stations
Logged



Selling
Price
\$129.99

Your
Net Price
\$79²³

Commander-in-Chief of the Air

The new Magnaformer 9-8 Receiver has won the instant approval of radio experts. It has created a new standard of all-round radio efficiency. It is the season's feature circuit in the Citizens' Radio Call Book, Popular Radio, Radio and other well-known Radio publications. This widespread acceptance and enthusiasm is due to the inherent excellence of the circuit—its hair-splitting selectivity, perfected, superb tone, great volume and extremely long range.

Also, with the Magnaformer Receiver, interference is a thing of the past—each station—even in radio-congested centers like Chicago and New York—clicks in alone, as though there were no other stations on the air.

The Magnaformer Receiver is quickly changed from a 9-tube set to an 8-tube set, or from an 8-tube set to a 9-tube set by simply turning a small switch on the front panel. This switch cuts in or out one of the intermediate R. F. stages. Nine tubes are used only on faint signals from distant points. Nine tubes give far too great a volume on local stations; 8 tubes are plenty for stations within a 1,000 mile radius. This Receiver is exceptionally easy to construct and makes a very beautiful appearing job.

LIST OF PARTS SPECIFIED

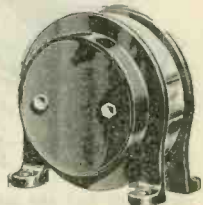
1 Formica Front Panel 7x26x3/16"—1 Formica Sub-Panel 9x25x3/16"—5 Magnaformer Transformers, R.F. No. 61—1 Unicoupler, Unit C.U. No. 71—2 Remler Universal Drum Dials—2 Remler .0005 mfd. Variable Condensers—9 Benjamin Sockets—2 Benjamin Sub-Panel Brackets 2" high—2 Ferranti Audio Transformers, A.F. No. 4—1 National Tone Filter—1 Samson Radio Frequency Choke Coil—2 Carter .00025 Grid Condensers with Mountings—1 Tobe 1 mfd. By-Pass Condenser—1 Carter .001 Fixed Condenser—2 Durham 2 megohm Grid Leaks—1

Frost DeLuxe 400 ohm Potentiometer arrow knob—1 Frost DeLuxe 10-ohm Combination Rheostat and Battery Switch, arrow knob—1 Frost DeLuxe 10-ohm Rheostat—1 Frost DeLuxe 30-ohm Rheostat—4 Frost Tip Jacks—2 No. 112 Amperites, with Holders—1 Yaxley Cable Connector Plug—1 Yaxley Radio Jack Switch—12 feet Bus Bar Wire No. 14 round tinned—25 feet Flexible Spaghetti covered wire—1 3/4x2" wood block for sub-panel center support—2 2" right angle supports for rear of sub-panel—wire, screws, lugs, nuts, bolts, solder—complete blue print and schematic drawing.

5K1500—
Total list price, \$129.99. Net. **\$79.23**

R. F. 61 Transformer

Superb tone quality, hair-splitting selectivity, great distance getter, shielded (metal shield encases coil, insuring quiet operation), double amplification (greatest per stage uniform amplification of all broadcast frequencies). Perfectly matched and factory-sealed, not necessary to match tubes.



3K1501—
List, \$8.50. Net. **\$5.00**

Magnaformer

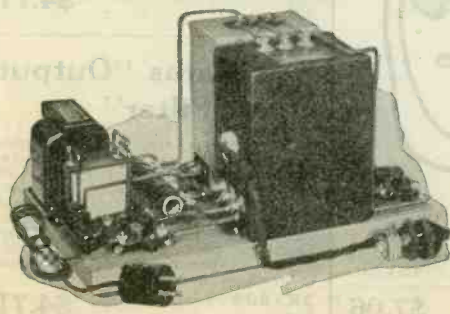
CU-71 UNICOUPLER

Specified in set above; may be used elsewhere with equal success.

3K1502—List, \$6.50. Net. **\$3.83**

Thordarson R-171 and R-210

Power Supplies and
"B" Eliminators



PARTS REQUIRED

R-210

1 Thordarson Power Compact R-210—2 Tobe 2 Mfd. Condensers (400 D.C. working volts)—1 Tobe 2 Mfd. Condenser (600 D.C. working volts)—1 Tobe 1 Mfd. Condenser (160 D.C. working volts)—1 Tobe 4 Mfd. Condenser (160 D.C. working volts)—1 set four Ward-Leonard Resistances, 1 8,000 ohm, 2 10,000 ohm, 1 1,000 ohm—2 Benjamin Tube Sockets—1 C316B Rectifying Tube; 1 C374 Voltage Regulator Tube.
5K550—List price, \$52.80. **\$34.21**
Net

R-171

1 Thordarson Power Compact R-171—1 Thordarson Output Choke R-196—1 Thordarson Resistance Unit R-508—1 Standard "B" Condenser Block (Tobe Deutschman R-171 or equivalent)—1 2 Mfd. Condenser, 200 D.C. working volts—2 UX Tube Sockets—1 Thordarson Power Input Plug R-172—5 Binding Posts—1 Raytheon Rectifying Tube B-H—1 Power Amplifying Tube CX371—1 set instructions free. **\$31.27**
5K551—List, \$50.65. Net.

Famous UTAH Speakers



"UTAH" No. 30

Another forward step by Utah in Speaker construction. Beautifully carved with Peacock design grill made of 5-ply natural finish Walnut Veneer front and back. Stands 18 inches high. A real high grade up-to-the-minute Speaker equipped with finest Utah unit.

2K5101—List price, \$30.00.
Net, each **\$17.64**

"SCREEN" SPEAKER

This beautiful new and popular type speaker occupies a position far ahead of anything developed in this line this year. Finished in antique Brown and constructed with a ten-foot air column horn and equipped with the superior Utah unit it gives a wonderfully clear and mellow tone. Made of 5-ply Walnut Veneer with bowed front. Adaptable to many uses as a screen. It is of special attraction to owners of fine and expensive Radio Receivers. Height, 40 in.; width, 28 in.; depth, 12 in.; weight, 50 lbs.



2K5100—List, \$100.00.
Net price, each..... **\$58.80**



"UTAH" DRUM No. 16

The "Utah" Drum Speaker has a reproduced hand carved base. The Drum is of metal construction finely finished in antique Walnut. Measures 16 1/2 inches by 14 inches by 4 1/2 inches deep; weight, 10 lbs. A wonderful Speaker value.

2K5102—List price, \$16.00.
Net, each **\$9.41**

FAMOUS "UTAH" HORNS

The Speakers are designed especially for great volume and clarity. They are nicely finished in gold and brown may be had in either of two popular sizes, "Standard" 14-inch horn and "Junior" 11-inch horn. We recommend these horns as the best purchase possible at anywhere near the price.



2K5103—
"Utah Junior." List \$12.50. **\$7.35**
Net, each
2K5104—
"Utah Standard." List \$22.50. **13.23**
Net, each



"UTAH" JUNIOR CONE

A "free edge" cone Speaker measuring 15 1/2 inches in height with cone 13 1/2 inches in diameter with strong Utah unit delivering clear natural tone seldom found in Speakers at the price. Should be a very fast mover.

2K5105—List price, \$10.00.
Net, each..... **\$5.88**

1927 "SUPERFLEX"

Very clear and pleasing tone comes from base instead of top. Although comparatively small in size this speaker is noted for its "Pep." Finished beautifully in Walnut and equipped with "Utah" Deluxe Unit. Has tonal chamber equal to that of the horn. Height, 8 inches; width, 6 inches; weight, 3 1/2 pounds.

2K5106—List price, \$10.00.
Net, each..... **\$5.88**





Oneil
Cone

Above

This large beautiful speaker stands 18 3/4" high and has a diameter of 17 1/2". The frame is made of 5-ply laminated wood 13/16" thick, which serves as a true sound resonator exciting the rich mellow quality so much desired in loud speakers today. The frame is artistically done in jade color with bronze finish showing through crackle lines. The beautiful design of the metal base is enhanced by the bronze finish and the verdigris shading. Powerful Horseshoe Magnet Unit.

2K5110—
List, \$12.75. Net... \$7.50

N. wcombe-Hawley Drum
At Right

This new type Reproducer is not a horn nor a cone. It is a Drum Speaker that embodies an entirely new, scientifically correct principle of tone reproduction. It will reproduce faithfully every tone from a whisper to full orchestra volume. This great volume and tone range is obtained by the combined action of the matched Baldwin Unit and the acoustically correct exponential design Tone Chamber. There is nothing to adjust—nothing to get out of order. Finished in attractive dark brown, the Newcombe-Hawley Drum will boost your sales and increase your profits.

2K5111—
List, \$32.00. Net, \$18.82



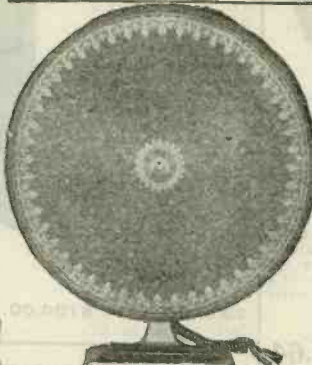
Trimm Cones

At Left

Will reproduce the low notes as well as the high with the greatest fidelity. Extraordinary quality of reproduction, with adequate volume. Built on the balanced armature principle, it is well adapted for operation with semi-power and power tubes. Will take the higher voltages and maximum amplification without blasting or distortion. The edge of the cone is fully protected. The unit is ruggedly built, of ample proportions, and all parts are rust-proofed before assembly. The unit is equipped with a handy handle.

2K5112—Concerto 14"
List, \$10.00. Net, \$5.88

2K5113—Concerto Grand 17"
List, \$16.00. Net, \$9.41



FROST FONES

The Frost line combines exceptional quality and a price that is within the reach of everyone due to tremendous production. All materials used in the manufacture of Frost head sets are the best that money can buy. For permanently satisfied customers be sure to sell them Frost Head Sets.



2K2800—2,000-ohm Head Set: polished aluminum shell with composition caps. List... \$3.00 Net... \$1.77
2K2801—3,000-ohm Head Set: polished aluminum shell with composition caps. List... \$3.50 Net... \$2.06

FROST-RADIO



BALDWIN HEADSET

Genuine Nathaniel Baldwin Head-phones have broken world records in transcontinental relays, and hold many long distance reception titles. The two units of each headset are perfectly matched and are equipped with a 6-foot standard cord.

2K2802—Type C. List, \$9.00. Net... \$5.30



TRIMM HEADSETS

The "DEPENDABLE" metal cased and the "PROFESSIONAL" Bakelite cased are high quality sets. The latter used by the MacMillan expeditions. Guaranteed to satisfy.

2K2803—Dependable. 2400 ohm. List, \$4.00. Net... \$2.36
2K2804—Professional. 3000 ohm. List, \$5.50. Net... \$3.24

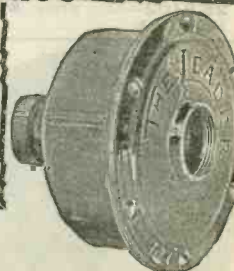
Nathaniel Baldwin Units

	List	Net
2K2700—"Rival" Speaker Unit...	\$7.00	\$4.46
2K2701—"Concert" Unit...	10.00	6.37
2K2702—Concert Phono Unit...	12.00	7.55
2K2703—Concert Grand Phono-Unit...	14.00	8.92
2K2704—Standard Phono-Unit with Pedestal...	8.00	5.10
2K2705—Phono Adapters, any machine. (State name.)...	1.25	.75



"UTAH"
Units

Beautiful efficient nickel finished units. Known the world over.
2K2706—Phono Speaker (with stand). List, \$10.00. Net, \$5.88
2K2707—Phono Speaker (without stand). List, \$9.50. Net... \$5.59
2K2708—King Speaker Unit 3. List, \$11.00. Net... \$6.37
2K2709—Deluxe Speaker Unit 4. List, \$14.00. Net... \$8.33



Our Leader Unit

A high grade adjustable unit for Loud Speaker, consoles or phonographs. For use with 90 volts of "B" Battery, this unit cannot be beaten, giving plenty of volume, no chatter or distortion. Sweet natural tone.

2K2730—
List, \$5.00. Net... \$2.55

Concert Master

Copper Shielded Tubes

Completes Set Shielding

A new high quality tube completely shielded in pure copper. This patented shielding protects the tube and renders it immune from howls, squeals, and microphonic noises and lessens "A" Battery consumption. An exceptionally efficient tube with greater volume and remarkable clarity. Shield grounded to "A" Terminal, eliminates stray capacities and the cushion surrounding tube prevents vibration, making for clearer, sharper tuning. Fit any set and are only slightly higher in cost. Made in following popular types:



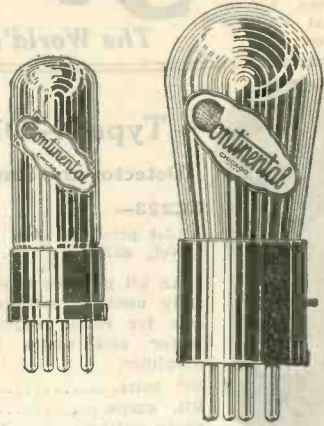
Type	Price	Net
2K250—Type 201A	\$2.50	\$1.47
2K251—Type 199UV	2.50	1.47
2K252—Type 199UX	2.50	1.47
2K253—Type 200A Det.	4.50	2.65
2K254—Type X112 Power	4.50	2.65
2K255—Type X171 Power	4.50	2.65

CUNNINGHAM TUBES

Type	Price	Net
2K275—CX301A. Amplifier detector	\$1.75	\$1.21
2K276—CX300A. Power detector	4.00	2.75
2K277—CX112. Power amplifier, 5-v.	4.50	3.09
2K278—CX371. Power amplifier 5-v. tube	4.50	3.09
2K279—C299. Detector amplifier for dry cell use	2.25	1.55
2K280—CX299. Detector amp. for X base	2.25	1.55
2K281—CX220. Power amp. for dry cell	2.50	1.72
2K282—CX310. Super power amp. and oscillator tubes 7.5	9.00	6.24
2K283—CX313. Full wave rectifier	5.00	3.43
2K284—CX316B. Half wave rectifier	7.50	5.15
2K285—CX12. Dry cell dec. amp. 1.5 v.	2.50	1.72
2K286—C11. Dry cell dec. amp. 1.5 v.	2.50	1.72
2K287—CX340. Hi-Mu tubes	2.25	1.55
2K288—CX326. New A. C. Tube Amplifier, 1.5 v., 1.05 A.	30% off	
2K289—CX327. New A. C. tube, 2.5 v. Det.	List Price	
2K290—CX374. Voltage regulator	5.50	3.78
2K291—CX380. Full wave rectifier	5.00	3.43
2K292—CX371. Full wave rectifier	7.50	5.15
2K293—CX376. Ballast lamp	6.50	4.46
2K294—X377. Glow tube fl. protector	1.75	1.23

\$1.00 TUBES

A Good Tube at a Good Price



Thoroughly and rigidly constructed, with genuine Thorium impregnated filament, insuring long life and can be re-activated or rejuvenated. DEALERS can rely upon Continental Tubes for satisfaction and repeat business. A FAST SELLER.

Type	Price	Net
2K256—Type UX201A	\$1.00	\$0.59
2K257—Type UV199	1.25	.74
2K258—Type UX199	1.25	.74
2K259—Type X120. Power Amp.	2.50	1.47
2K260—Type X171 Power	2.50	1.47
2K261—Type X112	2.50	1.47
2K262—Type 200A Det.	2.50	1.47



QUALITONE LOOP

The QUALITONE LOOP holds the world's record of 8,375 miles for distance reception. You can increase your distance and selectivity by using these loops. Woodwork is of hand-rubbed walnut. Well insulated stranded wire, covered with brown silk braiding, is used on all Qualitone loops. They are provided with a adjustment screw at top to assure tight wires. Threestaps, center tap removable. Easy folding metal parts heavily nickelled. Leads with phone tips included, also a DeLuxe model. Best model designed for .0005 condensers. Qualitone turns within a radius of 5 1/2". DeLuxe model turns within radius of 7 1/2".

Type	Price	Net
2K2675—Qualitone	\$10.00	\$5.88
2K2676—DeLuxe Model	12.50	7.35

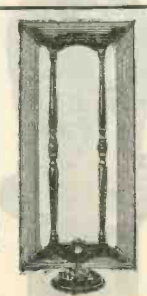
The Folding Aalco Loop



AALCO LOOP

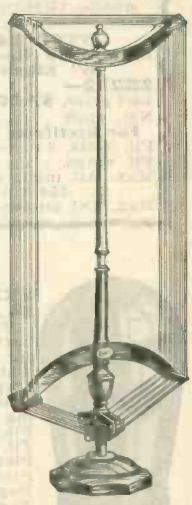
AALCO loops approved by leading technical magazines have a wavelength range 180 to 570 meters. 30 in. high, easily and quickly folded. Genuine walnut with nickelled metal parts. Brown silk covered wire which is always tight even when folded. Very compact and attractive. LOOP No. 35 designed for Tuned R. F., Neutrodyne. Browning-Drake and all .00035 condenser circuits. Loop No. 5 for Superheterodyne and other .0005 condenser circuits. Center tapped. Guaranteed for life.

2K2680—Loop No. 35.	
2K2681—Loop No. 5.	
List price, \$12.50. Net.....	\$7.35



MATHIESON LOOP

Collapsible loop aerial master console type. Very large volume, exceptional selectivity; open, it measures 40x21 in. Folds into box 22x5x4 in. Frame solid walnut, gold plated metal parts. Green silk wire Bakelite arms, three taps, used by many laboratories. Baby size. Brown wire size 30x18. Folds to 15x5x4. 2K2682—Master size. 2K2683—Baby size (for Superheterodyne). List, \$12.50. Net.....\$7.35



FIAT LOOP

Needs no introduction. Solid walnut rose gold plated finish—Colonial design. Fully guaranteed. Specified for superheterodynes. Very ornamental.

2K2684—	List, \$12.50. Net, \$7.35
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BODINE DELUXE LOOP
Solid walnut frame hand-rubbed, non-stretching silk covered wire. Base a 3-contact jack on Bakelite. Turning radius 6 in., a very beautifully, efficient and selective loop. Shape makes it popular for fitting into consoles. Ht. 28 in. Jacks may be mounted on set. Two DeLuxe and one Diamond shaped folding models.
2K2677—Deluxe for .0005. List price, \$12.00. Net, \$7.06
2K2678—Deluxe for .00035. List price, 12.00. Net, 7.06
2K2679—Diamond Folding. List price, 8.50. Net, 5.00

Sonatron is the manufacturer of the "World's Largest Radio Tube Line." Thirty-three types of tubes each adapted for a special radio purpose.

SONATRON

The World's Largest Radio Tube Line

The Sonatron Guarantee: Any tube will be replaced free of charge if the filament lights, only.



Type X-201-A

Detector and Amplifier

2K223—

List price, \$1.75. **\$0.87**
Net, each.....

An all purpose tube, universally used in storage battery sets for radio frequency, detector and audio frequency amplifier.

Fil. volts..... 5
Fil. amps..... .25
Plate voltage..... 22½ to 180
"C" battery volts..... 1.5 to 13



Power Tubes!

Type 200-A

Power Detector

2K224—

List price, \$4.00. **\$1.96**
Net, each.....

For greater volume, for distant stations, use this Power Detector in the detector socket, only, of storage battery sets. No rewiring is necessary on either old or new sets.

Fil. volts..... 5
Fil. amps..... .25
Plate volts (min.)..... 22½
Plate volts (max.)..... 45

"B" Eliminator Tubes!

TYPE 213
Full Wave Rectifier Tube
for "B" Eliminator

2K231—
List price, \$5.00 **\$2.45**
Net, each.....

For Rectifying Current
Fil. volts..... 5
Fil. amps..... .2
Max. AC input voltage, 220 volts per anode (RMS).
Max. DC output... .65 mils.

TYPE 216-B
Half Wave Rectifier for
"B" Eliminator

2K232—
List price, \$7.50 **\$3.68**
Net, each.....

For Rectifying Current
Fil. volts, 6 to 8—7.5 avrg.
Fil. amps..... .125
Max. AC input voltage
..... 550 volts (RMS)
Max. DC output... .65 mils.



TYPE SH-85

2K230—
List price, \$4.50.
Net, each..... **\$2.21**

Gas-Filled
No Filament
Current Consumption, 8 watts; Max. AC Input voltage (per plate), 290; Max. Rectified current (both plates), 85 Mils.

For "B" Eliminators. Its rugged construction insures a keen even flow of rectified current at maximum efficiency. This tube is guaranteed for 600 hours, but when used properly will operate efficiently for approximately 2,500 hrs.



TYPE X-112
Power
Amplifier

2K225—
List, \$4.50.
Net, each **\$2.21**

You get greater volume, distant stations with ease when you use this Power Amplifier in any ordinary storage battery receiving set.

Fil. volts... 5
Fil. amps... .5
Plate volts
22½ to 157
"C" Battery
voltage
6 to 10.5



TYPE 171 Power Amplifier

2K228—List price, \$4.50. Net, each..... **\$2.21**

This tube is used in any storage battery receiving set with hook-up for power tube in last stage of audio frequency. Gives greater amplification and clarity on distance than the ordinary amplifying tube.

Fil. volts..... 5
Fil. amps..... .5
Plate volts (min.)..... 90
Plate volts (max.)..... 180
Neg. grid volts with (90 pl.) 22½
Neg. grid. volts (with 180 pl.) 40½

TYPE 210

Oscillator and Amplifier

2K229—List price, \$9.00. Net, each..... **\$4.41**

As Oscillator
Fil. volts... 7.5
Fil. amps... 1.25
Plate amps... .06
Plate volts... 350

As Amplifier
Fil. volts 6 to 7.5
Fil. amps... 1.25
Plate volts (max.)... 425
Neg. "C" Battery... 4.5 to 35



Type 112-A

Power Amplifier

2K226—
List price, \$5.00. **\$2.47**
Net, each.....

The adapter base of this tube automatically changes hook-up for a power tube. No rewiring necessary. Has same specifications as Type 112.

Type 171-A

Power Amplifier

Adapter Base

2K227—
List price, \$5.00. **\$2.47**
Net, each.....

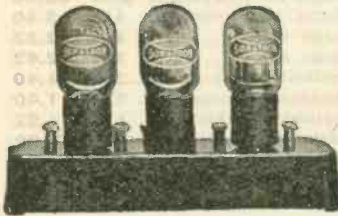
Use this tube in the last stage of audio frequency. The adapter base automatically changes hook-up for power tube. Same specifications as Type 171.

Profit

There is a bigger profit, a more than living profit for every dealer who sells Sonatrons.

SONATRON

When you sell Sonatrons, you know you can depend on them for performance. And this will bring back customers again and again.



The Sonatron Amplifier

To give any set, storage battery or dry cell, new power, new tone, this ingenious device fills the bill. One connection and it transforms any set into a modern efficient unit.

- Sonatron Amplifier Complete with Tubes. List price, **\$20.00**. Net, each... **\$11.76**
- 2K205**—Amplifier only.
List, \$8.00. Net, **\$4.71**
- 2K206**—Set "A" Bat. Tubes.
List, \$12.00. Net, **\$7.06**
- 2K207**—Set Dry Cell Tubes.
List, \$12.00. Net, **\$7.06**

Sonatron Hi-Mu Tubes

- For Storage Battery Sets.
- | | | |
|---------------------|--------|--------|
| | List | Net |
| 2K208 —Mu-30 | \$5.00 | \$2.94 |
| 2K209 —Mu-20 | 4.00 | 2.36 |
| 2K210 —Mu-6 | 5.00 | 2.94 |
- For Dry Cell Sets.
- | | | |
|--|--------|--------|
| | List | Net |
| 2K211 —Mu-29 | \$5.00 | \$2.94 |
| 2K212 —Mu-19 | 4.00 | 2.36 |
| 2K213 —Mu-9 | 5.00 | 2.94 |
| 2K214 —New X-240 for last stage Audio in Storage Battery Sets | 2.25 | 1.11 |



- 2K200**—Type 199—Amplifier and Detector. List Price, **\$2.25**.
Net, each... **\$1.11**
- Fil. volts 3.
Fil. amps. .06.
Plate voltage, 22½ to 90.
"C" battery volts, 1.5 to 4.5.
- 2K201**—Type X-199—Made with new X Base.
- 2K202**—Type 199-A—Equipped with standard base.

- Type X-120 Power Amplifier**
2K203—List price, **\$2.50**.
Net, each... **\$1.23**
- This tube is used in dry cell battery sets in the last stage of radio frequency. It produces great volume without distortion.
- Fil. volts, 3.
Fil. amps., .125.
Plate volts, 135.
"C" Battery volts, 22.5.

Sonatron Type 225 A-C

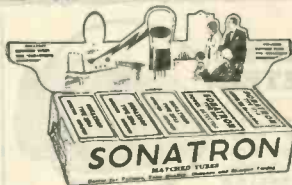


Filament (heater) Voltage, 3.
Filament (heater) Amperes, 1.05.
Plate Voltage, 12 to 135.
"C" Battery Voltage, 3 to 9.

Now, a new era in radio. Complete electrical operation of receiving sets with the SONATRON Type 225-AC tube. By making slight changes in the wiring of your present set, it can easily be made to operate directly from the light socket. The SONATRON Type 225-AC acts as a radio frequency amplifier, detector, audio frequency amplifier and oscillator bringing in the stations with the greatest clarity presenting the newest advance in radio receiving.

2K204—List price, **\$5.00**.
Net, each... **\$3.00**

SONATRON Matched Tube Sets!

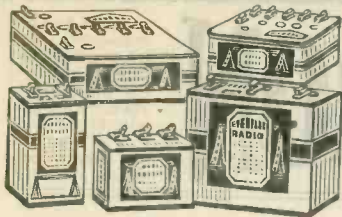


Here is a new idea in tube merchandising. Matched tubes for any set pave the way to quantity sales. This means more profit for you.

Sonatron matched tubes cost no more. The price is only the total cost of the tubes. They come complete in an attractive counter box, ready for quick sale.

- 5 TUBE COMBINATIONS**
Combination S-1—For New Sets
- 3 X-201—A Amplifier Tubes
1 200-A Power Detector
1 171 Power Amplifier with Standard Base.
2K215—List price, **\$13.75**.
Net, set... **\$6.74**
- Combination S-2—For Old Sets**
- 3 X-201—A Amplifier Tubes
1 200-A Power Detector
1 171-A Power Amplifier with Adapter Base; no rewiring necessary.
2K216—List price, **\$14.25**.
Net, set... **\$6.98**
- 6 TUBE COMBINATIONS**
Combination S-3—For New Sets
- 4 X-201-A Amplifier Tubes
1 200-A Power Detector
1 171 Power Amplifier with Standard Base.
2K217—List price, **\$15.50**.
Net, set... **\$7.60**
- Combination S-4—For Old Sets**
- 4 X-201-A Amplifier Tubes
1 200-A Power Detector
1 171-A Power Amplifier with Adapter Base; no rewiring necessary
2K218—List price, **\$16.60**.
Net, set... **\$7.84**

- 7 TUBE COMBINATIONS**
Combination S-5—For New Sets
- 5 X-201-A Amplifier Tubes.
1 200-A Power Detector
1 171 Power Amplifier with Standard Base.
2K219—List price, **\$17.25**.
Net, set... **\$8.45**
- Combination S-6—For Old Sets**
- 5 X-201-A Amplifier Tubes.
1 200-A Power Detector
1 171-A Power Amplifier with Adapter Base; no rewiring necessary
2K220—List price, **\$17.75**.
Net, set... **\$8.70**
- 8 TUBE COMBINATIONS**
Combination S-7—For New Sets
- 6 X-201-A Amplifier Tubes
1 200-A Power Detector
1 171 Power Amplifier with Standard Base.
2K221—List price, **\$19.00**.
Net, set... **\$9.31**
- Combination S-8—For Old Sets**
- 6 X-201-A Amplifier Tubes
1 200-A Power Detector
1 171-A Power Amplifier with Adapter Base; no rewiring necessary
2K222—List price, **\$19.50**.
Net, set... **\$9.56**



"EVEREADY" Radio

"A", "B" and "C" Batteries

"Eveready" Batteries are so well known it is unnecessary to describe them in detail. These batteries are extremely well built and are noted for long life and quiet hum-free service. If your set uses four or more tubes don't hesitate to purchase "Heavy Duty" Batteries as the higher initial cost is economy in the long run. Also use a "C" battery whenever possible to increase the life of the "B" batteries. Fresh stock on hand at all times.

Cat. No.	Fac. No.	Kind of Battery	List	Net
2K110	—486	45 v. Heavy Duty Layer Built	\$5.00	\$3.58
2K111	—770	45 v. Extra large vertical	4.75	3.40
2K112	—772	45 v. large vertical	3.75	2.62
2K113	—767	45 v. large flat	3.75	2.62
2K114	—779	22½ v. vertical 1 to 3 tubes	2.00	1.40
2K115	—766	22½ v. standard horizontal	2.00	1.40
2K116	—764	22½ v. vertical portable size	1.75	1.22
2K117	—768	22½ v. horizontal portable	1.75	1.22
2K119	—773	7½ v. "C" battery	.60	.59
2K120	—771	4½ v. "C" battery	.60	.42
2K121	— 6	1½ v. dry "A" cell	.45	.40

DIAMOND BATTERIES

Perfection is never the result of accident. Before Diamond "B" Batteries were put on the market a chemist and electrical engineer of national reputation spent three years of hard, practical laboratory work in producing a "B" Battery that is as near perfect as a "B" Battery can be made. The formula thus perfected has been tested under the most rigid conditions by the greatest scientific laboratory in the world, and passed with flying colors. It takes longer to make Diamond "B" Batteries and it costs more to make them than it does the ordinary "B" Battery, but the longer life and the greater results you will get from their use will far more than offset the few cents extra you pay for them. Your radio can be no better than your "B" Battery. Over a period of time and by all tests, Diamond "B" Batteries have proved to be equal to any battery on the market today. To be had in the following popular sizes: Retail Net

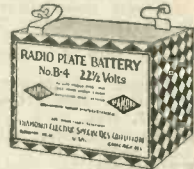
2K100	—45 v. Heavy Duty, taps at 22½	\$1.75	\$3.30
2K101	—45 v. vertical, taps at 22½	3.75	2.40
2K102	—45 v. flat, 5 taps	3.75	2.40
2K103	—22½ v. flat, taps 16½ to 22½	2.00	1.30
2K104	—22½ v. vertical, for portables	1.75	1.15
2K105	—22½ v. small for portables	1.50	.94
2K106	—45 v. "C" taps 3-4½ and 9 v.	1.20	.80
2K107	—7½ v. "C" taps 1½ to 7½ v.	.85	.59
2K108	—4½ v. "C" taps 1½-3 and 4½ v.	.60	.40
2K109	—1½ v. "A" cell height 6 in.	.50	.34



45 V. Heavy Duty



9 V. "C" Batt.



22½ V. Small



7½ V. "C"



POCKET VOLT-AMMETER

Range 0-50 Volts

Handy pocket meter designed for testing "B" batteries. Total range is 50 volts. The scale is hand calibrated and the 22½ and 45-volt points are marked in red and special marking indicate whether batteries are new or should be discarded.

3K345—List, \$2.25

Net \$1.46

HOYT ROTARY METER

Precision built 2½" moving coil voltammeter combines in one unit five ranges necessary for testing radio sets, tubes, batteries, chargers and "B" Eliminators. Meter mounted on mahogany, block is turned by knurled rim to five different positions. Very well built and sensitive. Reads as low as ¼ milliamp. and ½ v. 3K340—Meter with flexible leads. List, \$24.00. Net, \$17.64

YAXLEY PILOT LIGHT SWITCH

This is a decided novelty as well as a great utility for every set. The signal light shows whether the set is on or off, saves a needless drain on batteries and lengthens life of tubes by showing they are on after the station has signed off. Adds to the attractiveness of any receiver. Easily installed.

3K2195—Switch complete (No lamp.) List, 75c. Net, .44c

3K2196—Bracket only. (Attach to any switch.) List, 50c. Net, .30c

3K2197—Lamp only. List, 30c. Net, 18c



"TAB," the RECHARGEABLE DRY "B" BATTERY, has as long original and shelf life as any battery on the market. Can be recharged six to eight times, thereby giving 18 months to two years' service. Final cost about one-sixth the cost of any other battery. The only one on the market. The "cat" means nine lives. 45 v., 30 cells.

2K125—List, \$4.50. Net, \$2.87

Daven Tubes



For resistance and impedance coupled amplifiers.

M.U.-20 is Daven detector 6-volt, ¼ amp. Requires no rheostat. High amplifying qualities. List, Net
2K1902.....\$2.25 **\$1.44**
 M.U.-6 is a 6-volt, ½ ampere power tube. Requires no rheostat. Should be used in last or output stage. The power tube for all storage battery sets. List, Net
2K1903.....\$4.50 **\$2.89**

The new Daven 201A Tubes will operate in the same perfect manner as the well-known MU Tubes.
2K1949—201A Tubes.
 List, \$1.75. Net.....**\$1.21**

"Leakandenser"

Replaces the old grid resistors and condensers. Unaffected by temperature. Uniform detection. Condenser value, .00025.

3K1914 —2 meg.	} List, Net, each 64c
3K1915 —3 meg.	
3K1916 —4 meg.	
3K1917 —5 meg.	
3K1918 —7 meg.	

Daven Compensator



The Daven compensator is a miniature split stator condenser used to balance the capacity of two radio frequency circuits which are tuned by a tandem condenser. List, Net
3K1905.....\$1.75 **\$1.11**

Grid Stabilizer



Controls oscillation in R.F. circuits. Place in input of grid circuit.

3K1920 —200 ohm.	} List, 75c Net, each 48c
3K1921 —300 ohm.	
3K1922 —500 ohm.	
3K1923 —750 ohm.	

DAVEN PRODUCTS



Resistance Coupled Amplifier

The new Daven Super Amplifier, equipped with Daven tubes as illustrated, is the last word in tone quality radio reproduction. Reproduces all tones from 25 to 15,000 cycles. Made of black moulded bakelite and equipped with Daven glastors and type A condensers 10% long by 3% wide by 2% high. Complete instructions with each amplifier.

3K1901—Without tubes. **\$8.82**
 List, \$15.00 Net.....



Daven Glastors

Permanent, noiseless, accurate glass resistors. List, Net

3K1925 —0025 meg.	..\$1.00	64c
3K1926 —005 meg.	..1.00	64c
3K1927 —025 meg.	..75	48c
3K1928 —05 meg.	..75	48c
3K1929 —1 meg.	..75	48c

3K1930 —25 meg.	} List, 50c Net, 32c
3K1931 —5 meg.	
3K1932 —1 meg.	
3K1933 —2 meg.	
3K1934 —3 meg.	
3K1935 —5 meg.	
3K1936 —7 meg.	
3K1937 —10 meg.	

Hi-Duty Glastors

Designed for "B" Eliminator, telephone, signal, and other circuits. High current carrying capacity.

3K1938 —0025 meg.	} List, \$1.00 Net, each, 64c
3K1939 —005 meg.	
3K1940 —008 meg.	
3K1941 —01 meg.	
3K1942 —012 meg.	
3K1943 —015 meg.	
3K1944 —025 meg.	
3K1945 —05 meg.	
3K1946 —1 meg.	
3K1947 —5 meg.	
3K1948 —1 meg.	

Resisto—Coupler

Simplifies construction of a resistance coupled amplifier. Two pairs of clips. One each for grid and plate resistors. Bakelite base with condenser in bottom. Soldering lugs attached.

3K1924—Without glastors.
 List, \$1.50. Net.....**96c**
3K1951—(Prevents motorboating).
 List, \$1.50. Net.....**96c**

Daven R. F. Coils



Redesigned to give even greater selectivity, sensitivity and volume. Coils consist of two stages of tuned R. F. and one detector. Will give maximum results under all conditions. For use with .0005 condensers, size 3" by 1½". No feed back. Covers range completely. Adapted to any tuned R. F. circuit.
3K1912—Set of 3 coils. **\$4.71**
 List, \$8.00. Net.....

Anti-Motor-Boater

Now you can use a "B" Eliminator with resistance coupled sets without motor boating. Remove grid leak; insert cartridge.
3K1913—List, \$4.00. Net. **\$2.55**

Coupling Condenser

Type "A" coupling condenser is small and compact. Used in resistance coupled amplifiers. 1" x 3/16" x 1/2".
3K1906—List, \$1.00. Net..... **64c**

Balancer



Used to add sufficient capacity to the condenser. Attaches to the framework of first radio frequency condenser. Once adjusted the setting of panel dials will remain matched over practically the entire broadcast range.
3K1904—List, \$1.00. Net.... **64c**

Daven Tube Ballasts

Automatic Rheostat. Eliminates needless controls and wiring.
3K1907—No. 1A. ¼ amp. tube
3K1908—No. 2A. ½ amp. tube or 2¼ amp. tubes
3K1909—No. 3A. Three ¼ amp. tubes.
3K1910—No. 4A. 1 amp for four ¼ amp. tubes.
3K1911—No. 5A. 1½ amp. five ¼ amp. tubes.
 With mounting, List, \$1.00. Net, 64c
 Without mounting, List, 75c. Net..... **48c**

NEW DAVEN TWO-DIAL BASS NOTE SET

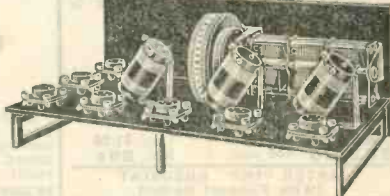
A positive revelation in tonal reproduction. The kit includes drilled and engraved panel, drilled baseboard, and all necessary parts down to the last screw and piece of wire but without tubes, batteries, or cabinet. Complete instructions for assembling are included. The circuit employs 3 stages of R. F., one detector and 3 audio, 7 tubes in all. It is single dial control, an illuminated Remler Drum being employed. This set will give you the maximum selectivity, distance and volume. Use Daven tubes. Order seven for the set at \$11.32 net.

5K1950—Complete parts List, \$68.50. Net, **\$40.88**
1K1955—Set wired List, 100.00. Net, **58.80**

DAVEN ELECTRICAL PHONO PICK-UP

Here is a real new Daven triumph. When used with the Daven or any other amplifier results are astounding. Will operate perfectly on any standard record with exact reproduction of all notes recorded. Beautifully finished, weighted base, 8-ft. cord and 2-coil reproducer. Complete with volume control. Wonderful tone and volume. **\$10.29**

3K1960—List, \$17.50. Net.....



CARTER "MIDGET" RHEOSTAT

All Metal Frame

Self-Cooling

Smallest made. Only 1 1/2" in diameter. Nickel plated. Black knob. Resistance element held tight at all times. The wire cannot move and short-circuit.



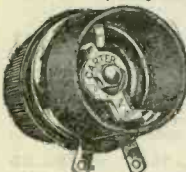
- 3K2000—2 ohm.
- 3K2002—6 ohm.
- 3K2003—10 ohm.
- 3K2004—20 ohm.
- 3K2005—30 ohm.
- 3K2006—50 ohm.
- 3K2007—75 ohm.

List, 50c
Net, 30c

Walnut or mahogany knob, 5c extra. Insulation for metal panel mounting 5c extra

CARTER "MIDGET" RHEOSTAT (Heavy Duty Type)

The same general construction as the well known "Midget" type except provided with "resistance strip" instead of 3/16", which affords more radiating surface. Will dissipate 6 watts. Mounts in 3/8" hole



- 3K2009—1 ohm.
- 3K2010—2 ohm.
- 3K2011—6 ohm.
- 3K2012—10 ohm.
- 3K2013—20 ohm.
- 3K2014—30 ohm.
- 3K2015—40 ohm.
- 3K2016—50 ohm.

List, 75c
Net, 45c

Mahogany or walnut knobs 5c extra. Insulation for metal panel mounting 5c extra.

CARTER "IMP" RHEOSTATS AND POTENTIOMETERS

All-metal frame rheostat. Self-cooling. The last word in small metal frame rheostat design. Satisfactory results in any circuit. Exceptionally small in size. It projects back of the panel less than 3/8" and is only 1 1/2" in diameter. Provided with binding post terminals. Black knob. Walnut or mahogany 5c extra. Metal panel insulation 5c extra.



- RHEOSTATS**
- 3K2017—2 ohm.
 - 3K2018—6 ohm.
 - 3K2019—10 ohm.
 - 3K2020—20 ohm.
 - 3K2021—30 ohm.
 - 3K2022—50 ohm.
 - 3K2023—75 ohm.

List, \$1.00
Net, 59c

POTENTIOMETERS

- 3K2024—200 ohm. } List, \$1.25
- 3K2025—400 ohm. } Net, 74c

CARTER "MIDGET" RHEOSTAT AND POTENTIOMETERS (With Filament Switch)

Same construction as "Midget" Rheostat, but with filament switch and black knob. Mahogany or walnut knob 5c extra. Insulation for metal panel mounting 5c extra.

- 3K2026—2 ohm.
- 3K2028—6 ohm.
- 3K2030—10 ohm.
- 3K2031—20 ohm.
- 3K2032—50 ohm.
- 3K2033—75 ohm.

List, \$1.00
Net, 59c

POTENTIOMETERS

- 3K2034—200 ohm. } List, \$1.25
- 3K2035—400 ohm. } Net, 89c

CARTER "IMP" RHEOSTAT (With Filament Switch)

Same construction as "IMP" Rheostat, but with filament switch. With black knob. Mahogany or walnut 5c extra. Metal panel insulation 5c extra.

- 3K2036—2 ohm.
- 3K2038—6 ohm.
- 3K2039—10 ohm.
- 3K2040—15 ohm.
- 3K2041—20 ohm.
- 3K2042—30 ohm.
- 3K2043—40 ohm.

List, \$1.50
Net, 89c

CARTER RADIO RECEPTACLE JACK (With Volume Control)



This latest type of loud speaker outlet jack is provided with a CARTER "HI-OHM" Volume Control, so the user can regulate the volume to suit, without changing the volume output in the balance of the circuit when more than one speaker is used on the same circuit. Ideal for hospitals, apartment houses, hotels, or the home where one or more loud speakers or head phones are used at the same time. Furnished with "RADIO" name plate and screws for mounting directly in outlet box, or on wall or base-board.

- List Net
- 3K2045—Brass escutcheon plate \$2.75 \$1.65
 - 3K2046—Brown bakelite escutcheon plate 3.00 1.80
 - Aerial Ground Plate Without Control
 - 3K2047—Brass plate 30.90 \$0.53
 - 3K2048—Brown Bakelite 1.15 .68
 - Loud Speaker Wall Plate Only
 - 3K2049—Brass 50.80 \$0.48
 - 3K2050—Bakelite 1.05 .62

CARTER NEW POWER SWITCH (110-Volt Circuit)



One of the smallest switches made. Double contact. For regular 6-v. filament or 110-v. circuit. With "On" "Off" name plate.

- 3K2051—List 75c
- Net 45c

CARTER NO. 2 "IMP" BATTERY SWITCH

Positive in action and mounts in small space. Contains few parts and is for 6-volt circuit. Complete with "On and Off" name plate. Mounts in 3/8" hole.

- 3K2052—2 "IMP" Switch. List, 50c. Net, 30c
- Mahogany or walnut knob 5c extra.

NEW "IMP" JACK SWITCH



A new filament switch to mount in small space. For 6-v. circuit. "On-Off" Name Plate.

- 3K2053—List, 50c. Net, 30c

CARTER "SHORT" JACKS



Patent No. 1,620,755 Smallest made. For use when space is limited. No screws used in the assembly. Mount in 3/8" hole. Fit any standard plug.

- 3K2054—Open circuit, output type. List, 25c. Net, 15c
- 3K2055—Single, closed circuit. List, 30c. Net, 18c

CARTER MICA CONDENSERS



Molded in Bakelite. Best grades of mica and foil used. CARTER Condensers are extremely accurate. Guaranteed within 10 percent of rated capacity.

- List Net
- 3K2056—.0001 \$0.40 \$0.24
 - 3K2057—.00025 .40 .24
 - 3K2058—.0005 .50 .30
 - 3K2059—.0005 .50 .30
 - 3K2060—.0005 (grid clips) .50 .30
 - 3K2061—.001 .50 .30
 - 3K2062—.002 .50 .30
 - 3K2063—.0025 .50 .30
 - 3K2064—.005 .70 .42
 - 3K2065—.0075 .95 .56
 - 3K2066—.01 1.15 .66
 - 3K2067—.02 1.75 1.03

CARTER "IMP" BATTERY SWITCH



Snap switch positive contact. "On and Off" name plate.

Compact and quiet. One-hole mounting.

- 3K2068—Price complete, each, List, 65c. Net, 39c
- Mahogany or walnut knob, 5c extra.

CARTER LOCK SWITCH

Key cannot be removed when in the "on" position. For use in 6-volt circuit. "On and Off" name plate and three keys supplied.

- 3K2069—Price, "IMP" Lock Switch, each, List, 75c. Net 45c



NAME PLATES

Fit under Standard Jack lock nut; marked—

- A, "Detector"; B, "1 Stage"; C, "2 Stage"; D, "3 Stage"; E, "Radio"; F, "Loop"; G, "Telephone"; H, "Loud Speaker"; I, "Fit under "IMP" or No. 10 Tip Jack lock nut; marked—K, "Speaker"; L, "Aerial"; M, "Ground."
- 3K2070—Price, each, 5c; 10 for...33c

CARTER FLAT PLUG



The cord tips are held in place without screws and can easily be inserted or withdrawn. The flat bakelite handle fits close to the panel. The cords hang from the bottom of the handle. Adds distinctive refinement to the appearance of any set.

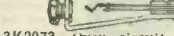
- 3K2071—List, 75c. Net, 45c

CARTER NO. 2 FLAT PLUG

Smallest and neatest plug made. Parts moulded in bakelite handle. Cord tips held by screws. Provisions for attaching stay cord.

- 3K2072—List, 50c. Net, 30c

CARTER HOLD-TITE JACKS



- 3K2073—Open circuit 101. List, 50c. Net, 30c
- 3K2074—Closed circuit 102A. List, 60c. Net, 36c
- 3K2075—Single filament control 103. List, 70c. Net, 42c
- 3K2076—Double circuit 104. List, 80c. Net, 48c
- 3K2077—Double filament control 105. List, 90c. Net, 53c

CARTER "HI-OHM" AND HI-POT

All-metal frame. Self-cooling. Non-inductive, wire protected, high resistance volume controls. Black Bakelite knob.

- 3K2078—500,000 ohm. List, \$2.00
- 3K2079—300,000 ohm. List, .25
- 3K2080—200,000 ohm. List, .25
- 3K2081—100,000 ohm. List, .25
- 3K2082—50,000 ohm. List, .25
- 3K2083—10,000 ohm. List, \$1.18
- Hi-Pot—Same as above, but with three terminals.
- 3K2084—500,000 ohm. List, .25
- 3K2085—300,000 ohm. List, .25
- 3K2086—200,000 ohm. List, .25
- 3K2087—100,000 ohm. List, .25
- 3K2088—50,000 ohm. List, .25
- 3K2089—10,000 ohm. List, \$1.33

CARTER TIP JACK
Small, tight and reliable card tip jack. Heavy contact spring insures positive connection. Mounts in 1/2" hole on panels of 3/8" to 1/2" thick.

- 3K2090—List, 10c. Net, 6c

YAXLEY Approved Products YAXLEY

AUTOMATIC POWER CONTROL



Connect the Automatic Power Control and the receiver becomes a power operated set. Cuts in the Belminator, cutting out the trickle charger when the set is turned on. Reverse takes place when the set is turned off. Filament switch of the set is the only switch to operate, the Automatic Power Control does all the other switching. Neat in appearance. Thoroughly dependable.

3K2100—No. 444, Series Type. Voltage drop kept below (2/10) volts when used with sets having a current draw equivalent to four 199 type of tubes up to eleven 201 type of tubes. List, \$5.00. Net. **\$2.94**

3K2101—No. 445, Multiple Type. No voltage drop with this type. Recommended for multi-tube sets and for sets with a very low current draw. List, \$6.00. Net. **\$3.53**

CABLE CONNECTOR PLUG



Battery wires are brought to the set in one neat compact cable. All connections plainly marked with color code (RMA standard colors).

3K2106—No. 670. For sets equipped with binding posts. Pin plug has 15" pigtails for attaching to the set. List, \$3.50. Net. **\$2.06**



CABLE CONNECTOR PLUG

3K2107—No. 660. For installing right in the set. The mounting plate mounts on the base panel by means of the bracket—or the bracket may be removed and the plate fastened directly to the sub-panel or back of the cabinet. List, \$3.00. Net. **\$1.77**

JUNIOR JACK SWITCHES

For use in sets where space is at a premium.



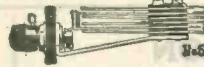
3K2110—Battery Switch. List, 70c. Net. **42c**
3K2111—Two Circuit. List, 85c. Net. **50c**
3K2112—Double Circuit. List, 95c. Net. **56c**
3K2113—Five Spring. List, \$1.10. Net. **65c**
3K2114—Two Way Two Circuit. List, \$1.20. Net. **71c**

JACKS



All Bakelite insulation. Mount in single 7/16" panel hole without adjusting collars. Bakelite insulating washers furnished on order for mounting on metal panels. Fit any standard radio plug.

3K2122—No. 1—Open Circuit. List, 50c. Net. **30c**
3K2123—No. 2—Circuit Closing. List, 60c. Net. **36c**
3K2124—No. 2A—Two Circuit. List, 60c. Net. **36c**
3K2125—No. 3—Single Circuit Filament Control. List, 70c. Net. **42c**
3K2126—No. 3A—Circuit Reversing. List, 70c. Net. **42c**
3K2127—No. 3C—Double Circuit. List, 70c. Net. **42c**
3K2128—No. 4—Interstage (Illustrated). List, 80c. Net. **48c**
3K2129—No. 4A—Two Circuit Filament Control. List, 80c. Net. **48c**
3K2129 1/2—No. 6—Two Circuit Filament Lighting. List, 90c. Net. **53c**
3K2130—No. 6—Interstage Filament Control. List, \$1.00. Net. **59c**
3K2131—No. 7—Interstage Filament Lighting. List, \$1.10. Net. **65c**



JACK SWITCHES

There is a Yaxley Jack Switch to meet every requirement. Brass frames with Bakelite insulation. Bakelite insulation washers also furnished on order for mounting on metal panels.

3K2132—No. 20—Single Pole, Single Throw. List, 75c. Net. **45c**
3K2133—No. 30—Single Pole, Double Throw. List, 90c. Net. **53c**
3K2134—No. 40—Double Pole, Single Throw. List, \$1.00. Net. **59c**
3K2135—No. 45—Five Springs, Combining Nos. 20 and 40. List, \$1.15. Net. **68c**
3K2136—No. 60—Double Pole, Double Throw (Illustrated). List, \$1.25. Net. **74c**
3K2137—No. 63—Three Pole, Double Throw. List, \$1.60. Net. **95c**
3K2138—No. 64—Four Pole, Double Throw. List, \$2.00. Net. **\$1.18**

INDUCTANCE SWITCH

Only 1 1/2" across, this little switch answers every requirement for a dependable tap switch. Complete with neat dial plate and Bakelite knob.

3K2139—No. 44. 4-Point. List, 75c. Net. **45c**
3K2140—No. 70. 7-Point. List, 80c. Net. **48c**
3K2141—No. 90. 9-Point. List, 90c. Net. **53c**



TWO STAGE SWITCH

For controlling the filament first and second audio stages with one switch. Turned to left, switch is off. Center position cuts in the first audio stage. Turned to right, switch cuts in first and second audio stages. **3K2142—List, \$1.50. Net. 89c**



AIR-COOLED RHEOSTAT

The Original Air-Cooled Rheostat. It has a smooth, quiet action, with an extremely close adjustment, permitting filament voltages to be built up slowly and held at exactly the right point. Base is of Bakelite. Rheostat mounts in a single 7/16" panel hole. Furnished complete with Bakelite knob.



3K2143—2 ohm
3K2144—6 ohm
3K2145—10 ohm
3K2146—25 ohm
3K2147—30 ohm
3K2148—40 ohm

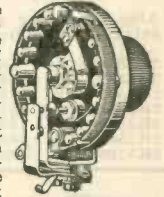
List, Net, each each **\$1.35 \$0.80**

POTENTIOMETERS

3K2149—200 ohm List, Net, each each
3K2150—400 ohm **\$1.75 \$1.03**
3K2151—1000 ohm
3K2152—2000 ohm

SWITCHING RHEOSTAT

For those who desire to control the switching of the filament with the rheostat, the Yaxley Switching Rheostat offers an ideal combination. The Rheostat proper is the same as the standard Air-Cooled Rheostat. The action of the switch is sure and positive—and the switch point is of pure silver. Complete with knob.



3K2153—2 ohm
3K2154—6 ohm
3K2155—10 ohm
3K2156—15 ohm
3K2157—20 ohm
3K2158—30 ohm
3K2159—40 ohm

List, Net, each each **\$1.75 \$1.03**

RESISTANCES

Resistance Units—Small in size, accurately rated, provided with combination screw eye and soldering lug for mounting to panel or solder connectors. Specify size.
3K2161—1 to 50 ohms. 10c
3K2162—100 to 400 ohms. 10c
Net, each 15c



Filament Resistances—Same construction as Resistance Units. Furnished and designed to control from one to six 201 type of tubes. 10c
List, 15c. Net. 10c

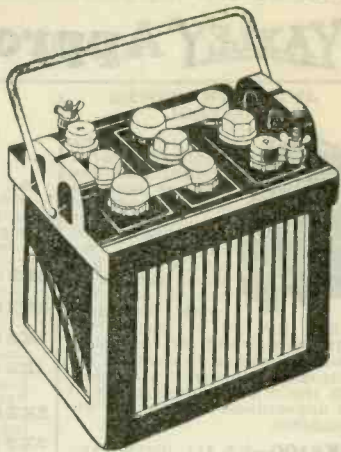
Grid Resistances—Wire wound resistance for the grid line. Mount directly to the socket. 600 ohm to 2000 ohm. Each, 35c
3K2163—Sizes 200 to 500 ohms. List, 25c. Net. 15c
3K2164—Sizes 600 to 2000 ohms. List, 35c. Net. 21c

MIDGET BATTERY SWITCH

Small in size and thoroughly dependable with its quick make and break. Has phosphor bronze springs and pure silver contacts. Thoroughly insulated from the frame. Mounts in single 7/16" panel hole. Complete with name plate. **3K2160—Net, each 30c**



NATIONAL "A" BATTERIES



SAVE ON EXPRESS CHARGES **18 MONTHS FREE REPAIR GUARANTEE**

90 day repair guarantee on thin plate Batteries

Shipped From Nearby Cities

A NATIONAL Battery carefully constructed of full sized standard thickness plates. Carefully and accurately rated as to voltage and amperage. You can depend on the life and performance of these batteries and build up a large list of satisfied customers through your battery sales. No greater battery satisfaction can be had at any price. Each battery built in a strong rubber compound case and provided with handle for convenient handling. Shipped fully charged ready to put into operation.

You will save greatly, also due to our shipping from warehouses, in any of the following cities which you may specify:

Chicago
New York
St. Paul

Kansas City
Baltimore
St. Louis

Dallas
Detroit
Atlanta

Cincinnati
Boston

Also from Los Angeles, Calif., or Oakland, Calif., Portland, Ore., or Seattle, Wash., for 50c extra per battery.

RADIO		Each	AUTO		Lead
2K5500—6 v.	50 amp. size	\$6.35	2K5507—4-cyl. cars, 6 v., 11-plate		\$8.75
2K5501—6 v.	75 amp. size	7.50	2K5508—6-cyl. cars, 6 v., 13-plate		10.39
2K5502—6 v.	100 amp. size	8.65	2K5509—Dodge 12 v., 7-plate		12.38
2K5503—6 v.	125 amp. size	9.75	2K5510—4-cyl. cars, 6 v., 11-plate, thin		8.26
3K5504—6 v.	150 amp. size	10.80	2K5511—6-cyl. cars, 6 v. 13-plate, thin		9.57
2K5505—6 v.	100 amp. thin plate	8.40			
2K5506—4 v.	Glass	5.50			



The ELKON Trickle Charger

"It's Bone Dry"

Equipped with the Elkon Rectifier, has won an astounding success, because it does completely what has heretofore been done only partially; it makes the charging of RADIO "A" batteries AUTOMATIC, requiring NO attention.

Height, 7 1/2 in.; length, 5 1/2 in.; width, 3 in.

When you connect up the Elkon Trickle Charger to your "A" Battery and house current it first of all brings up your battery to its most efficient charging rate. Then it TAPERS off to a minimum charge (you do not have to turn it off) increasing again as more current is needed, and in turn tapering off. In other words

it is a device which changes your house current to "A" battery current and AUTOMATICALLY feeds it to the battery.

It operates any radio "A" battery from A.C. furnishing up to 0.7 amps. and can keep even the largest set supplied in ordinary use. It is full wave.
3K3400—Operates on 105-120 volts, 50-60 cycles. (Supplied also for use with 105-120 volts, 25-40 cycles, at a slightly higher cost.)
List, \$13.50. Net... **\$7.94**

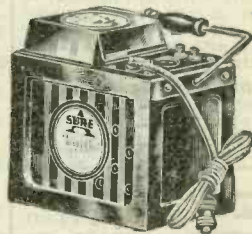
The ELKON "A" Power

The result of a wonderful invention, "A" Battery elimination is now PERFECT. Over a year ago the "Elkon" principle of dry rectification was announced and the Trickle charger was marketed. Now in the Elkon "A" Power you have silent, inexhaustible, unvarying "A" Power supply which eliminates forever "A" Battery troubles. No noise, no moving parts, no tubes. Just constant, perfect "A" Power. Operates on 110 volts, A. C., 60 cycles.

3K3401—
List, \$60.00. Net... **\$35.82**



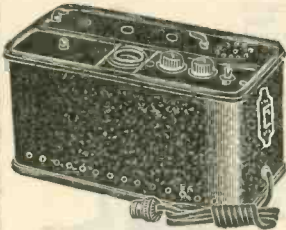
Westinghouse— SARVIS SURE "A"



A socket-charging "A" battery power unit combining an "A" Battery, charger and automatic switch. It furnishes an unflinching noiseless "A" current of highest quality for radio sets. Silent because it has no moving parts, no bulbs or rectification troubles. Constructed with rugged battery which will operate a set for hours even if light socket power should fail. Equipped with the famous Westinghouse Rectox trickle charger with automatic switch. When receiving set is off switch disconnects power from "B" Battery eliminators and connects power on Sure "A" to replace current used. When set is in operation charging will cease and power is put onto "B" Eliminator socket connection. It is dry, noiseless, wear proof.

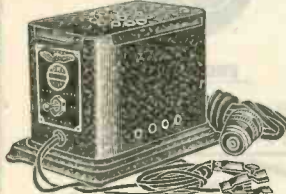
2K5513—Unit complete. List price, \$30.00.
Net price... **\$17.64**

EAGLE "A" and "B" POWER UNIT



Smooth and constant "A" and "B" supply direct from A.C. lighting circuit. Delivers 180 volt at 60 mils. Designed to operate from 3 to 10 tube sets. Variable detector and intermediate as well as a variable maximum output. Uses Raytheon B.H. or other .85 tubes. Completely Automatic, operating directly from the switch on the radio set. Absolutely quiet and cool in operation. Black and Gold finish. Size, 16 x 8 x 8 inches. List Net
3K3428\$79.50 \$46.76

EAGLE DRI-DISC-CHARGER



No tubes, no acid, one-half ampere trickle charge rate, 1 1/2 ampere high rate. Absolutely quiet and cool in operation. Can be left on continuously. List, \$15.00. Net.....\$8.82
3K3432—7 1/4 x 4 1/4 x 4 1/4 inches.



HOLMES D. C. CHARGER

This D.C. Charger is well constructed and designed for charging batteries from Main 110 Volt D.C. line. List Net
3K3434\$16.50 \$9.71



EAGLE -B- POWERS Super "B"

Automatic Relay built in with flush receptacle in rear to attach trickle charger. For Automatic control direct from switch on set. For six tube sets or less. Uses Raytheon Tube. Delivers 135 Volts at 40 Mils. Dimensions, 4 1/2 x 9 5/16 x 7 inches. List, \$28.00. Net.....\$16.47
3K3435—Without tube.
 Power "B"
 For sets up to 10 tubes. Delivers 180 Volts at 60 Mils.
3K3436—Without tube. List, \$37.50. Net.....\$22.05

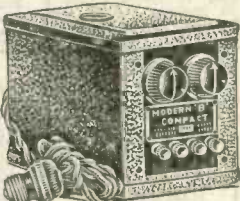
National -A- Power

The latest Proved development in "A" power Dry metallic disc. 1 ampere charger. Combined with heavy duty National Battery. 5,000-hour guarantee on charger discs. Automatic regulation of charging rate according to batteries. Eliminates danger of overcharging or starving battery. Latest Brach relay and "B" receptacle included. Nationally advertised. Shipped ready to operate. This unit will end your "A" Battery problem.

- 3K3425**—With 6 V—75 A.H. Battery. List, \$31.60. Net.....\$17.12
- 3K3426**—With 6 V—100 A.H. Battery. List, \$33.30. Net.....\$19.32
- 3K3427**—With 6 V—125 A.H. Battery. List, \$34.10. Net.....\$20.06



Modern "B" Compact



Modern "B" compact is the product of experienced engineers and the thousands sold during the past season are all in daily use. Three B+ or output connections allow different voltages to be supplied to detector. Uses Raytheon

tor, amplifier and power tubes. Tube, 40 mil. at 135 Volts.

- 3K3433**—List, \$26.50. Net.....\$21.46



Modern Automatic Switch

Use a positive, dependable, automatic switch on your power units. The Modern is positive in action and easy to install. Small and compact.

- 3K3439**—List, \$3.00. Net.....\$1.77



Brach Controlit

Most popular Automatic switch on the market. Automatically connects and disconnects charger and "B" Eliminator by turning switch on set. Will not get out of adjustment.

- 3K3437**—For 6 Volt Battery...\$4.50 \$2.65
- 3K3438**—For 4 Volt Battery... 4.50 2.65

Raytheon Tubes

The original and most powerful of all "B" Rectifier tubes on the market. Guaranteed for 1,000 hours. For all Eliminators requiring gas type tubes.
3K3442—B type. List, \$4.50. Net, \$2.87
3K3443—BH type. List, \$4.50. Net, \$2.87

THORDARSON DRY CHARGER



The Thordarson Battery Charger makes its bow as a welcome relief to the army of butlers to thirsty chargers. Radically new, sound in principle, proven in performance. No vibrating parts. No acid to spill, very compact; 2 1/2 x 5 1/4 x 4 1/4 inches high. Charging rate 2 amperes. Rectifying element guaranteed for 750 hours, at full load operation or approximately a year's normal service. All steel case of crackle enamel finish. List Net
3K3429 \$12.50 \$7.35



ABOX "A" ELIMINATOR

The Abox "A" Eliminator is a combination of a rectifier (charger) and the well known Abox filter built in one compact unit. No adjustments or attention during operation. Line voltage fluctuations are automatically compensated for. Operates up to 9 tube sets. List Net
3K3430 \$32.50 \$19.12

ABOX FILTER
3K3431—Abox Filter only. List, \$19.50. Net.....\$11.48



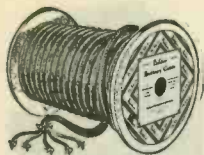
MAJESTIC "B" POWER Super "B"

The market standard by which other "B" Eliminators are compared. Delivers 180 Volts at 50 mils. for sets up to 12 tube. List, \$29.50. Net.....\$18.79
 Master "B"
 Three controls. Delivers 180 Volts at 60 mils. Will operate any receiver.
3K3441—With tube. List, \$32.50. Net.....\$20.70

Cables

BATTERY EQUIPMENT

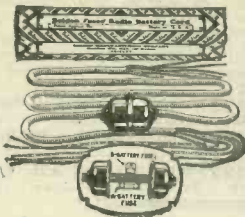
Cell-Check



Five and seven conductor battery cables. Insulated with colored rubber. Standard colors, covered with brown cotton braid. Cut

to any length desired.
3K3400—5-conductor.
 Per ft. List, 7 $\frac{1}{2}$ ¢. Net.....5c
 Per 100-ft. spool.....
 List, 7.75¢. Net.....4.56c
3K3401—7-conductor.
 Per ft. List, 10¢. Net.....6c
 Per 100-ft. spool. List, \$10.00.
 Net.....\$5.88

Belden Fused Cable



Prevents burning out of tubes and fire hazards due to short circuits. A and B circuits both fused. Easily installed. Very popular last season.
3K3402—6 ft. long. 5-conductor. List, \$1.50. Net.....89c
3K3403—6 ft. long. 7-conductor. List, \$1.65. Net.....98c

EXTRA FUSES
 B battery replacement fuses. Three in box.
3K3404—Per box.
 List, 80¢. Net.....51c
 A battery replacement fuses. Three in box.
3K3405—Per box.
 List, 40¢. Net.....26c

Determine at any time the correct condition of charge in cell of storage battery without testing the acid. Prongs are pushed down on the terminals of each cell and reading noted on meter at top.

3K3410—List, \$2.50. Net, \$1.59



Acme Cable



A thoroughly insulated cable for connecting A and B batteries to set. Celatsite covered.

3K3406—5 ft. long. 5-conductor. List, 90¢. Net.....57c
3K3407—5 ft. long. 7-conductor. List, \$1.25. Net.....80c
3K3408—5 ft. long. 9-conductor. List, \$1.55. Net.....98c

Toggle Switch



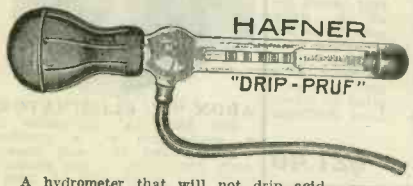
FROST-RADIO

Popular bakelite toggle switch, easily mounted on panel.
3K3411—List, each, 50¢. Net...32c

Cable Markers

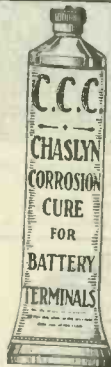
Metal tags for marking battery cables. Easy to fasten. Complete set in package.
3K3409—List, per pkg., 15¢; net, 10¢. Per doz. pkgs., 75c

Hydrometers



A hydrometer that will not drip acid and can be used in close quarters. Hose is 24" long. Will reach battery without moving. Very popular.

List Net
3K3412.....\$1.00 64c



This new item is a fast seller. Simple to use. Cover battery terminals and check corrosion.
3K3413—List, 30¢. Net, 19c

Drip Proof

Three-ball type. Accurate and reliable. Safeguard against battery acid falling upon furniture and rugs.

3K3416—Each, List, \$1.00. Net, 64c

Brackets

Make your home-built set sturdy by using AERO Subpanel brackets.



3K3417—Per pair—List, 75¢. Net.....45c



Volt-Ammeter

This meter is designed for testing dry cells and storage batteries. Attractive brown finish.

3K335—0-10 volts, 0-35 amps. List, \$1.50. Net.....98c
3K336—0-50 volts, 0-35 amps. List, \$3.00. Net.....\$1.92



Silver-Marshall brackets are of rugged design and are for use with subpanel. Nickel finish. Very high grade.

3K3418—Per pair—List, 70¢. Net.....45c

Benjamin



Benjamin self-supporting brackets for use in sets having subpanel. Nickel-plated screws included. Dull nickel finish.

List Net
3K3419—Adjustable\$1.25 79c
3K3420—Not adjustable... .70 44c

Tritox Automatic Trickle Charger

Westing-House-Sarvas Product



Operates on light socket A. C. 110 v. 60 cycle current. Eliminates bulbs, acids and all moving parts. Full wave rectification using little current. Filament switch turns off charger when set is on and vice versa. Also provides "B" eliminator current when set is on. Tapering charging rate from $\frac{3}{4}$ to $\frac{1}{2}$ amp., assuring long battery life and freedom from any bother.

3K3421—Charger complete. List, \$16.00. Net.....\$9.41

Jewell Instruments

A Meter for Every Purpose

For Receiving Sets No. 135



A real asset to any receiver. A special rear mounting gives this 2-in. instrument an over-all dimension of 2½ inches. Etched scales with black markings on silver background.

	List	Net
3K300—0-5 volts...	\$7.00	\$4.46
3K301—0-8 volts...	7.00	4.46
3K302—0-100 volts...	7.50	4.76
3K303—0-3 amp... 7.00	7.00	4.46
3K304—		
0-50 milliamperes...	7.00	4.46
3K305—Double reading—0-7½-150 v...	8.50	5.41
PUSH SWITCH TYPE 135B—		
3K306—	List	Net
0-7½-150 volts...	\$9.00	\$5.41
3K307—		
0-4-160 volts	9.00	5.74

Portable Voltmeter



A beautiful portable for the home, representing a miniature mantel clock. Furnished with leads which may be plugged into Radiola, Victor and Brunswick sets. A very desirable battery tester.

3K317—0-7.5-150 volts. **\$7.35**
List, \$10.00. Net,

Set Analyzer

This 1927 Jewell product provides a rapid means of shooting trouble in a radio set. All parts of the set may be checked and recorded for future reference on printed blanks supplied for that purpose. Meter may be used as voltmeter 0-8-80-200 volts and 0-20 milliamperes. Genuine morocco leather case.

3K321—
List, \$65.00. Net, each **\$47.78**

A-B Relay



This Jewell A. B. Relay has been designed for automatically switching the trickle charger and "B" Eliminator when the filament control

is turned either on or off, thus relieving the set owner from the necessity of disconnecting those accessories or switching them individually. The relay is so sensitive that it will not interfere in any way with the operation of any set.

3K323—For sets having 5 or more three-volt tubes drawing .3 to 1 amp. **\$3.19**
List, \$5.00. Net each,

3K324—For sets having 5 or more 6-volt tubes drawing one or more amperes. **\$3.19**
List, each, \$5.00. Net, ea.

Filament Control No. 53



Prolongs life of vacuum tubes. Repulsion iron-vane type; rugged and accurate, with zero adjuster flush type.

3K308—0-10 volts, D. C. **\$7.50**
3K309—0-3 amperes D. C. **7.50**
Net,

\$5.51
each

High Precision Meters

Jewell's new small meter of high resistance, designed especially for checking "B" Eliminators, scale 0-300 volts. A thoroughly high grade instrument and can be depended upon.



3K316—
List, \$12.00. Net,

\$7.65

Pocket Meters

Accurately constructed scale calibrated for close reading, enameled black case with glass crystal flexible connection cord.



3K318—Volts. 0-50 volts. List, \$2.75. Net, each... **\$1.76**
3K319—Ammeter. 0-40 amperes. List, \$2.00. Net, each... **\$1.28**

Tube Tester



A complete tube tester designed for the dealer to place on the counter. Equipped with voltmeter, milliammeter, rheostat and socket. A push button is employed to change the grid bias from negative to positive.

3K325—List, \$35.00. **\$25.82**
Net, each

Double Reading Meters

A popular instrument for mounting on panel of a receiving set, assuring correct reading of A and B batteries.



Black enamel finish, nickel plated and polished switch knob. Fits 2½-inch hole.

	List	Net
3K310—0-5-100 v.	\$10.00	\$7.35
3K311—0-10-100 v.	10.00	7.35
3K312—0-4-160 v.	10.00	7.35
3K313—0-7.5-15 v.	10.00	7.35
3K314—0-7.5-30-150 volts, 3 readings.	12.50	9.15
3K315—0-8-80-160 volts, 3 readings.	12.50	9.15

Tube Checker

A small and compact design for use in checking tubes. Will test power tubes. The case is genuine bakelite with a carrying handle and includes filament rheostat socket, filament Voltmeter (0-3 volts) and plate milliammeter (0-8-40 milliamperes). A decidedly new and valuable instrument to the radio trouble finder.



3K320—
List, \$27.50. Net, each **\$20.20**

Service Test Set

Service test set for general servicing of radio apparatus. Tests tubes, batteries, "B" eliminators, circuits, etc. Has drawer for small tools and detachable battery compartment. The instruments contained in the set are a four-scale voltmeter with extra high resistance for "B" Eliminator work and a three-scale milliammeter. The ideal instrument for a professional radio doctor. Furnished with leads and tube adapter but without tools and batteries.



3K322—List, \$78.00. **\$57.84**
Net, each

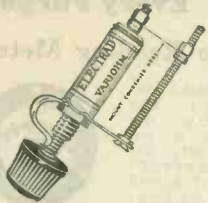
Beede Pocket Meters

Sturdy, accurate and finely nickel-plated. May be had for testing both "A" and "B" batteries.

3K326—Storage "A" Tester.	
List, \$1.50. Net,	\$0.89
3K327—Combination 0-50 v., 0-50 amp.	
List, \$1.50. Net,	\$0.89
3K328—Combination, 0-50 amp., 0-10 v.	
List, \$1.50. Net,	\$0.89
3K329—Voltmeter, 0-58 v.	
List, \$1.25. Net, .....	.74
3K330—Voltmeter, 0-10 v.	
List, \$1.25. Net, .....	.74



Electrad Variohm



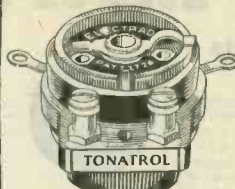
A Variable Grid Leak. Complete range of resistance $\frac{1}{4}$ to 10 Megohms. List Net
3K2557\$1.25 **79c**
3K2558—0001 to .0005 condenser to fit above **24c**

Phasatrol



A true balancing device for R.F. Amplifiers. Suitable for base or sub-panel mounting. Gives maximum efficiency and selectivity. List Net
3K2559 ...\$2.75 **\$1.75**

Tonotrol



A true tone and volume control connect across secondary terminals of first audio transformer in an audio amplifier. List Net
3K2560\$1.50 **96c**

Truvolt
25 Watt



A correct Voltage Control for "B" Eliminators. A Variable Power Resistor. Wound with copper-nickel alloy wire. Heat proof. Very fine regulation. List, \$3.50. Net....\$2.23
3K2562—0 to 5000 ohms
3K2563—0 to 10000 ohms
3K2564—0 to 50000 ohms

Electrad Audiohm



Eliminates transformer distortion. Fits any transformer. List Net
3K2561\$1.50 **96c**

"Voltrol"



A new and efficient variable high resistance control. Will not "pack." Correct in principle. Moulded of heat and moisture proof refractory material. Two sizes. List, \$1.50. Net....\$0.96
3K2567—0 to 500,000 ohms
3K2568—0 to 5,000,000 ohms
 List, \$1.60. Net....\$1.03



The "Clarostat" and Power Clarostat

The "CLAROSTAT" is well known as a Universal Variable resistance from zero to 5,000,000 ohms. For "B" eliminators, volume control, eliminating distortion, variable gridleak use, etc. List, \$4.30
3K2565—List, \$2.25. Net....\$1.43
 The "POWER CLAROSTAT" is several times larger than the standard Clarostat but similarly constructed. Especially adapted to regulation of the filament control with the B.H. and other 85 M.A. Rectifying Tubes of A-B-C Power Units. List, \$3.50. Net....\$2.23
3K2566—List, \$3.50. Net....\$2.23

Resistor Mounts



Bakelite with Phosphor Bronze Clips. Suitable for any standard size tubular resistor or gridleak. List Net
3K2569—Single\$0.25 **\$0.15**
3K2570—Double35 **.21**

The Self-Adjusting Rheostat
Guaranteed Perfect



The "SELF-ADJUSTING" Rheostat

3K2500—AMPERITE No. 1-A— $\frac{1}{4}$ Ampere Type—For the UV-201-A; C-301-A; UX-201-A; CX-301-A; UX-300-A; CX-300-A; DV-2 or any $\frac{1}{4}$ ampere, 5 volt tube on the 6 volt "A" battery.
3K2501—AMPERITE No. 112— $\frac{1}{2}$ Ampere Type—For the UX-112; CX-112; UX-171; CX-371 and similar tubes on the 6 volt battery.
3K2502—AMPERITE No. 120—For the UX-120 and the CX-220 on $\frac{1}{2}$ volts (3 dry cells) or on the 4 volt storage battery.
3K2503—AMPERITE No. 4V-199—For the UV-199; C-299; UX-199; CX-299; DV-3 on $\frac{1}{2}$ volts (3 dry cells) or on 4 volt storage battery.
3K2504—AMPERITE No. 6V-199—For the UV-199; C-299; UX-199; CX-299 and similar tubes on the 6 volt "A" battery.
3K2505—AMPERITE No. 3-A— $\frac{3}{4}$ Ampere Type—To control $\frac{3}{4}$ amperes and 5 volts on the 6 volt "A" battery.
3K2506—AMPERITE No. 4-A—1 Ampere Type—To control 1 ampere and 5 volts on the 6 volt battery.
 Each with mounting. List, \$1.10. Net...\$0.71

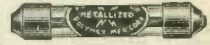
Veritas Resistors



Designed especially for "B" Eliminators, resistance audio amplification and transmitting gridleaks. Fit standard gridleak mounts.

	List	Net
3K2509 —2,000 ohms	1.10	\$0.65
3K2510 —5,000 ohms	1.10	.65
3K2511 —7,500 ohms	1.10	.65
3K2512 —10,000 ohms	1.10	.65
3K2513 —50,000 ohms	.90	.53
3K2514 —100,000 ohms	.80	.47
3K2515 —250,000 ohms	.75	.45
3K2516 —500,000 ohms	.75	.45

Polymet Grid-Leaks



3K2532 —1 meg.	
3K2533 — $\frac{1}{2}$ meg.	
3K2534 — $\frac{1}{4}$ meg.	
3K2535 — $\frac{1}{8}$ meg.	
3K2536 —1 meg.	
3K2537 —2 meg.	
3K2538 —3 meg.	
3K2539 —5 meg.	
3K2540 —6 meg.	
3K2541 —8 meg.	
3K2542 —8 meg.	
3K2543 —10 meg.	
List, 25c. Net, 15c.	
Lots of 10.....	12c

DURHAM METALLIZED RESISTORS

Grid-resistors of permanent and accurate resistance value. Adapted by the leading set manufacturers.

	List	Net
3K2517 —25,000 ohms	\$0.75	\$0.45
3K2518 —50,000 ohms	.75	.45
3K2519 —75,000 ohms	.75	.45
3K2520 —100,000 ohms	.75	.45

	List	Net
3K2521 — $\frac{25}{100}$ megohm	\$0.50	\$0.30
3K2522 — $\frac{3}{100}$ megohm	.50	.30
3K2523 — $\frac{5}{100}$ megohm	.50	.30
3K2524 — $\frac{75}{100}$ megohm	.50	.30
3K2525 —1. megohm	.50	.30
3K2526 —1.5 megohms	.50	.30
3K2527 —2. megohms	.50	.30
3K2528 —2.5 megohms	.50	.30
3K2529 —3. megohms	.50	.30
3K2530 —4. megohms	.50	.30
3K2531 —5. megohms	.50	.30

Electrad Resistances and Grid Leaks

3K2544 — $\frac{1}{4}$ megohm.	
3K2545 — $\frac{1}{2}$ megohm.	
3K2546 — $\frac{3}{4}$ megohm.	
3K2547 —1 megohm.	
3K2548 —2 megohm.	
3K2549 —3 megohm.	
3K2550 —4 megohm.	
3K2551 —5 megohm.	
3K2552 —6 megohm.	
3K2553 —7 megohm.	
3K2554 —8 megohm.	
3K2555 —9 megohm.	
3K2556 —10 megohm.	
List, 50c.	
Net	29c

Brach-Stat



An automatic filament control. Eliminates hand rheostats. Complete with mounting. List, \$1.00. Net...\$0.59
3K2507—For 201-A and similar tubes, 6 V.
3K2508—For 199 and similar tubes, $\frac{1}{2}$ V.
 List, \$1.00. Net...\$0.59

Audio Transformers



Thordarson Audio Frequency Amplifying Transformers are built with one primal aim—perfect reproduction. The Thordarson Super Transformer is a product of the combined efforts of Thordarson engineers and nationally known tone experts and musicians.

There are more Thordarson Amplifying Transformers in use in leading sets than all competitive transformers combined. Built for good musical reproduction.

- 3K500—6-1 Ratio. \$2.70**
List price, \$4.50. Net.
- 3K501—3½-1 Ratio. 2.40**
List price, \$4.00. Net.
- 3K502—2-1 Ratio. 3.00**
List price, \$5.00. Net.

Sub-Panel Mounting

The super amplifying transformer is also furnished with leads coming out the base for use in sets mounted on a sub-panel. Provides neater assembly, shorter leads and makes set look like a factory-made job.

Same characteristics as transformers listed above.

- 3K503—6-1 Ratio. \$2.70**
List price, \$4.50. Net.
- 3K504—3½-1 Ratio. 2.40**
List price, \$4.00. Net.
- 3K505—2-1 Ratio. 3.00**
List price, \$5.00. Net.

New Type R-200



A quality transformer with unusually faithful reproductive powers and a very wide amplification range. The super-sized core combined with the high inductance primary result in the evenness of amplification so characteristic of this transformer.

- 3K506—List, \$8.00. \$4.80**
Net

Speaker Coupling Transformer R-76



Designed as a protective device to keep the high voltage current of power amplification out of the delicate speaker windings. Suitable for use with either UX-171 or UX-210 power amplifiers.

- 3K507—List, \$6.00. \$3.60**
Net

Filament Transformer

This transformer is designed primarily as a filament supply for the various types of five volt filament power tubes, and should be used on all power amplifiers employing more than one power tube (the filament supply of the R-171 Power Compact is intended for only one power tube).



- 3K516—5 Volt Fil. Supply Transformer. List, \$5.00. \$3.00**
Net

THORDARSON

ELECTRIC MFG. CO.

Choke Unit

Intended primarily for use with transformers T-2098 but may be used in the filter circuit of any similar rectifier. It consists of two 30 henry choke coils capable of carrying 130 milliamperes without heating or saturation of the core. This unit is contained in a crackle finished compound filled case.



- 3K512—Choke Unit. \$8.40**
List, \$14.00. Net.

130 M. A. Full Wave Rectifier

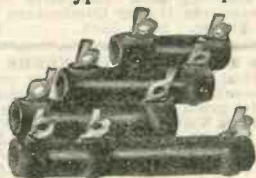
Here is a power unit that will satisfy the ever increasing demand for improved quality of reception. A split secondary 550 volts either side



of center, makes possible full wave rectification, using two 216-B or two 281 tubes. Current capacity, 130 milliamperes. The low voltage secondary, 7½ volts, will supply two UX-210 power tubes, enabling the use of push-pull amplification in last audio stage.

- 3K513—List, \$20.00. \$12.00**
Net

Output Resistor Kit for 210 Type Power Amplifiers



This special resistor kit is designed for use as a voltage divider for the Thordarson R-210 power amplifier, but may be used in all similar type power supply devices employing the UX-874 voltage regulator tube. This kit contains four individual resistors as follows: One 8000 ohms with a tap at 1200 ohms, two 10000 ohms, and one 1000 ohms. Intended to supply 45-90-135 and 400 volts, and in addition, approximately 20 volts grid bias for the UX-210 power tube.

- 3K514—List, \$4.90. \$2.94**
Net

A. C. Tube Filament Supply

The Thordarson Transformer T-2445 is designed especially for AC tubes. Sec. No. 1, 1½ v. will supply six UX-226 amplifier tubes. Sec. No. 2, 2½ v. will supply two UX-227 detector tubes. Sec. No. 3, 5 volts, will supply two 6-volt power tubes.



- 3K517—List, \$10.00. Net, \$6.00**

Thordarson Output Choke R-196

A choke of 30 henries inductance, 85 milliamperes current carrying capacity, D.C. resistance of 360 ohms. Suitable for use either as an output choke or for filter purposes.



- 3K508—List, \$5.00. \$3.00**
Net

Thordarson Autoformer

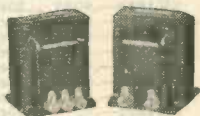
The Autoformer is a step-up impedance coupled amplifier which embodies all the good qualities of bass note amplifiers with the additional advantage of greater amplification. Three-stage Autoformer amplifications are superior in amplification to four stages resistance coupled or four stages straight impedance coupled amplification. Flat amplification curve over entire range of audibility.



- 3K509—List, \$5.00. \$3.00**
Net

Power Push-Pull Transformer and Choke

This arrangement is designed for use with power tubes only and has sufficient capacity for all tubes up to and including the UX-210.



Input transformer couples stage of straight audio to stage of push-pull. Output choke is center-tapped with 30 henries on either side of center tap.

- 3K510—Input transformer. List, \$8.00. Net \$4.80**
- 3K511—Output Choke. List, \$8.00. Net, 4.80**

Power Compacts



The Thordarson Power Compacts R-171 and R-210 are designed as power units for a simple and efficient power amplifier and B eliminator for home construction.

R-171 for operation of Raytheon BH rectifier, 2 filter chokes of 80 milliamperes capacity, five-volt center tapped filament supply for one UX-171 power tube, and 2 buffer condensers. For use with 110 volt, 60 cycle light circuit.

- 3K518—Complete with 6 ft. cord, 171 pact. List, \$15.00. \$9.00**
Net

R-210 will supply 400 volts for use with UX210 and 316B tube. Filament voltage for 216B, two choke of 80 milliamperes capacity, a 7½ volt filament supply for UX210.

- 3K519—R-210, with 6-foot cord. List, \$20.00. \$12.00**
Net

Fixed ACCURATELY RATED



Condensers

USUALLY
SPECIFIED

By-Pass Condensers

In their silvered metal cases the Tobe Bi-Pass Condensers are standard for all by-pass use in radio sets. The Tobe Bi-Pass Condensers are noiseless and unchangeable. Insulation is of the order of 150 megohms.

	Sizes, mfd.	List price	Net, each
3K1800	0.1	\$.06	\$0.36
3K1801	0.25	.70	.42
3K1803	5	.90	.53
3K1802	1.0	.90	.53
3K1804	2.0	1.75	1.03
3K1805	4.0	3.50	2.06

Tinytobe Condensers

TINY TOBE Condensers are made for constant operating voltages up to 500 D.C. They are of extremely small size—a very valuable feature in use, because of the small space often allowed for by-passing condensers.

	Sizes, mfd.	List price	Net, each
3K1813	—0001	\$.35c	\$0.21
3K1814	—00015	.35c	.21
3K1815	—0005	.35c	.21
3K1816	—00075	.40c	.24
3K1817	—001	.40c	.24
3K1818	—0015	.40c	.24
3K1819	—002	.40c	.24
3K1820	—005	.45c	.27
3K1821	—006	.45c	.27
3K1822	—01	.55c	.33
3K1823	—02	.60c	.36

Interference Filter

The Tobe Radio Interference Filter No. 1 will handle up to ¼ H.P. on 110 v. or ½ H.P. on 220 v. D.C. and is made to reduce interference from oil burners, refrigerators, and all such motors at the source. Provided with 5 leads.

3K1824—Filter. List price, \$15.00. Net, each. \$8.82



Tobe "B" Blocks

3K1825—Model 760 contains one 8, two 2 and two 1 Mfd. 300-volt Condensers, for use with Raytheon B and UX-213 tubes. List price, \$11.00. Net, \$5.47

3K1826—TOBE BH BLOCK, Type 765 contains two 4's and one 6 Mfd. 400 volt Short Path Condensers, for use with Raytheon BH Tube. List price, \$11.00. Net, each. \$6.47

3K1827—Model 764 contains three 4 and two 1 Mfd. 300-volt Condensers, for use with UX-213 Tube. List price, \$12.00. Net, each. \$7.06

3K1828—R-171 B BLOCK, as specified for use with Thordarson No. 171 Power Compact. Contains all necessary capacities and taps. List price, \$12.00. Net, each. \$7.06

3K1829—R-210 B BLOCK, as specified for use with Thordarson 210 Power Compact. List price, \$13.00. Net, each. \$7.65

3K1830—Model 660 for Silver Marshall Unipack. List price, \$12.00. Net, \$7.06

3K1831—B BLOCKS for RAYTHEON A B C POWER SUPPLY using 350 Ma. Rectifier Tube. No. 2 8-1-1 Mfd. List price, \$10.50. Net, each. \$6.18

3K1832—B BLOCKS for QRS A B C POWER SUPPLY using 400 Ma. Rectifier Tube. 16 Mfd. (Requires one 411 and three 401 Buffer Condensers.) List price, \$14.00. Net, each. \$8.24

Filter Condensers

TOBE Filter Condensers are made for use in filter circuits on plate supply units and in B-Eliminators and in power amplifiers where the D.C. working voltages run up to 300 volts.

The 4.0 Mfd. is especially suitable for use in output devices required with the UX-171, and similar power-tubes. Sizes, List Net.

	Sizes, mfd.	List price	Net, each
3K1806	0.1	\$.70	\$0.42
3K1807	0.25	.75	.45
3K1808	0.5	.90	.53
3K1809	1.0	1.25	.74
3K1810	2.0	1.75	1.03
3K1811	4.0	3.50	2.06
3K1812	2.0x0.1 (Buffer)	1.50	.89

400 Line Condensers

Higher voltage Condensers, made for continuous operation up to and including 400 volts D.C.

	Sizes, mfd.	List price	Net, each
3K1833	—1	\$.20	\$1.18
3K1834	—2	2.75	1.62
3K1835	—4	4.50	2.65
3K1836	2x0.1 (Buffer)	2.00	1.18

600 Line for Power-Packs

This new condenser is designed for continuous operation without the possibility of breakdown in the AmerTran Power-Pack and similar high-voltage power amplifier units. This condenser will operate continuously on D.C. voltages from 600 to 1,000 volts.

	Sizes, mfd.	List price	Net, each
3K1837	—0.5	\$.20	\$1.18
3K1838	—1.0	2.50	1.47
3K1839	—2.0	3.50	2.06
3K1840	—4.0	6.00	3.53

POLYMET FILTER AND BY-PASS CONDENSERS

A high voltage condenser that will stand up under continuous operating at rated working voltages. Non-inductive type.

	Capacity	List price, D.C. Work Volt. 300	Net, each
3K1841	—1	\$.06	\$0.36
3K1842	—25	.70	.42
3K1843	—5	.80	.48
3K1844	—1	1.00	.59
3K1845	—2	1.50	.89
3K1846	—4	3.50	2.06

	Capacity	List price, D.C. Work Volt. 600	Net, each
3K1847	—1	\$.75	\$0.45
3K1848	—25	.85	.51
3K1849	—5	1.00	.59
3K1850	—1	1.25	.74
3K1852	—4	1.00	2.36

POLYMET MOULDED BAKELITE CONDENSERS

The very last word in fixed condensers moulded in genuine Bakelite, individually tested and inspected, not affected by heat or other outside conditions.

	Capacity	List price	Net, each
3K1867	—0004	\$.35c	\$0.21
3K1868	—0001	.35c	.21
3K1869	—0025	.35c	.21
3K1870	—0025 with grid leak clips	.45c	.27
3K1871	—0005	.35c	.21
3K1872	—001	.40c	.24
3K1873	—002	.40c	.24
3K1874	—005	.60c	.36
3K1875	—006	.75c	.45
3K1876	—0075	.85c	.50
3K1877	—02	1.50	.89



Polymet Mica Condensers

An extremely low loss type condenser guaranteed within 5 per cent of rated capacity and against breakdown at 800 volts.

	Cap.	List price	Net, each
3K1853	—0001	25c	\$0.14
3K1854	—00015	25c	.14
3K1855	—00015, with grid leak clips	35c	.21
3K1856	—00025, with grid leak clips	25c	.14
3K1857	—00025, with grid leak clips	35c	.21
3K1858	—0005, with grid leak clips	25c	.14
3K1859	—0005, with grid leak clips	35c	.21
3K1860	—001	30c	.18
3K1861	—002	30c	.18
3K1862	—0025	30c	.18
3K1863	—005	50c	.30
3K1864	—006	50c	.30
3K1865	—0075	60c	.36
3K1866	—01	70c	.42

These Blocks incorporate the proper condenser sections for the various eliminators, power amplifiers, etc. Buy the block to suit the purpose.

	List price	Net
3K1878—For Raytheon "B" Elim. 14 Mfd.	\$11.50	\$6.77

Polymet Block Condensers

3K1879—Tapped at 1-C-1	\$2.00	\$1.18
2K1880—For R-210 Thordarson. 11 Mfd.	14.00	8.23
3K1881—For AmerTran & Mfd.	12.00	7.06
3K1882—Raytheon A. B. C. 11 Mfd.	22.50	13.23
3K1883—Q.R.S. A.B.C. 18.5 Mfd.	21.00	12.35

K. K. Vernier Dial

These dials operate clockwise or counter clock. Very artistic. Probably the fastest seller in the market. Genuine Bakelite finely polished. Requires one shaft hole and two small support holes, no gears to wear, no back last. Ratio 14-1, Housing 4 in. by 4 1/2 in.

- List Net
 3K400—Black \$2.00 \$1.18
 3K401—Walnut 2.00 1.18

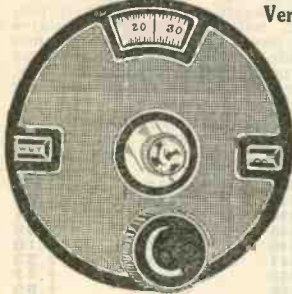


Vernier—"MARCO"—Illuminated

The newest illuminated control. Very attractive, easy to mount, nickel finish throughout. Comes complete with lamp, ten-plate, switch, dial, etc. This is a big seller.

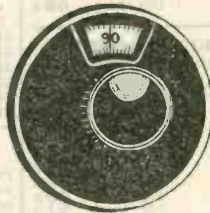


- 3K418—0-100. List, \$3.50. Net.. \$2.06
 3K419—100-0. List, \$3.50. Net.. 2.06



Bakelite 4" Vernier Dial 180°. No back lash. Provides place for call letters. One hole mount. Template supplied. Very popular.

- 3K410—0-100. Black, Nickel. List, \$2.50. Net... \$1.47
 3K411—100-0. Black, Nickel. List, \$2.50. Net... 1.47
 3K412—0-100. Black, Gold. List, \$2.75. Net... 1.62
 3K413—100-0. Black, Gold. List, \$2.75. Net... 1.62
 3K414—0-100. Mah. Gold. List, \$2.75. Net... 1.62
 3K415—100-0. Mah. Gold. List, \$2.75. Net... 1.62
 3K416—0-100. Mah. Nickel. List, \$2.50. Net... 1.47
 3K417—100-0. Mah. Nickel. List, \$2.50. Net... 1.47



Marco Rheostat Dial

Matches the standard Marco Dial. Black Bakelite, Size 2", Vernier Type.
 3K430—List, 75c. Net, 44c

K-K RHEOSTAT KNOB

Polished Bakelite knobs, attractively etched with arrow. Two sizes.

- 3K402—Black. 1 1/2" List, 15c. Net 10c
 3K403—Black. 1 1/2" List, 15c. Net 10c
 3K404—Walnut. 1 1/2" List, 20c. Net 12c
 3K405—Walnut. 1 1/2" List, 20c. Net 12c



K-K POINTER KNOB

Polished Bakelite for use on Rheostat or condenser with etched dial plate.

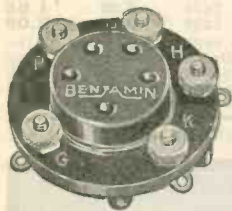
- 3K406—Black. 2 1/4" List, 30c. Net, 18c
 3K407—Black. 3 1/4" List, 30c. Net, 18c
 3K408—Walnut, 2 1/4" List, 45c. Net, 27c
 3K409—Walnut, 3 1/4" List, 45c. Net, 27c

K-K PLAIN DIALS

Genuine Bakelite Dials, Black or Walnut in sizes which enable you to match all dials on the set. Very stable.



- | | Black | List | Net |
|----------|-----------|------|-----|
| 3K420—2" | Rheo Dial | 40c | 24c |
| 3K421—3" | 100-0 | 60c | 36c |
| 3K422—3" | 0-100 | 60c | 36c |
| 3K423—4" | 100-0 | 85c | 49c |
| 3K424—4" | 0-100 | 85c | 49c |
| Walnut | | List | Net |
| 3K425—2" | Rheo Dial | 40c | 24c |
| 3K426—3" | 100-0 | 60c | 36c |
| 3K427—3" | 0-100 | 60c | 36c |
| 3K428—4" | 100-0 | 85c | 49c |
| 3K429—4" | 0-100 | 85c | 49c |



BENJAMIN 5 PRONG

New 5 Prong Socket suitable for A.C. Push Type Tubes. Provided with large contact prongs and 5 taps. Cushion type. Will be very popular.

- 3K431—Sub Panel Type. List, 90c. Net.....36c

- 3K432—Complete with Base. List, \$1.20. Net...71c



SPRING SUPPORTED SHOCK ABSORBING

BENJAMIN SPRING SOCKET

For New Standard UX Tubes, also old style base except UV199. Side wiping.

- 3K433—Complete Socket. List, 75c. Net.....45c



DEJUR SPRING SOCKET

UX Tube Socket. Genuine Bakelite, small and compact. Springs of Phosphor Bronze heavily nickel plated.

- 3K437—List, 25c. Net...15c

BENJAMIN CLE-RA-TONE

Genuine Bakelite. For large base Vacuum Tubes, will also accommodate new standard UX Tubes. Very durable, Spring suspended, shock absorber.

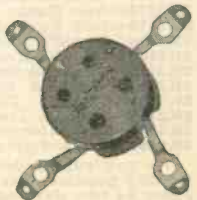


- 3K434—Each Socket.....\$1.00 Net 59c

BENJAMIN DIRECT PANEL MOUNT SOCKET

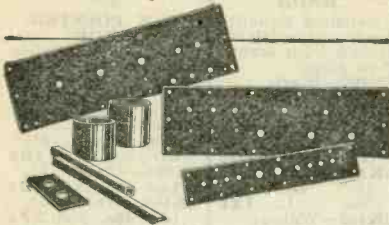
Comes with drilling Template and four machine screws with nuts for direct panel mounting.

- 3K435—For 3/16" Panel. List, 50c. Net30c
 3K436—For 1/4" Panel. List, 50c. Net30c



FORMICA

Made from Anhydrous Bakelite Resins
SHEETS TUBES RODS



GENUINE BAKELITE PANELS

Highest quality, will not warp. Will not chip. Finest natural polish. Black or walnut.

3/16" Thick Black	Panel Size	3/16" Thick Walnut	Price
3K2400	1.25 7x12	3K2408	\$1.44
3K2401	1.46 7x14	3K2409	1.69
3K2402	1.88 7x18	3K2410	2.17
3K2403	2.19 7x21	3K2411	2.55
3K2404	2.50 7x24	3K2412	2.90
3K2405	2.71 7x26	3K2413	3.14
3K2406	2.92 7x28	3K2414	3.37
3K2407	3.13 7x30	3K2415	3.62

BLACK BAKELITE SUB-PANEL

3/16" Thick

No.	Size	Price
3K2416	7x17	\$1.77
3K2417	7x20	2.09
3K2418	7x23	2.41
3K2419	7x26	2.63
3K2420	7x27	2.84
3K2421	7x29	3.02
3K2422	9x23	3.02
3K2423	9x25	3.29
3K2424	9x27	3.56
3K2425	9x29	3.86
3K2426	10x23	3.30
3K2427	10x25	3.58
3K2428	10x27	3.86
3K2429	10x29	4.15

SPECIAL SIZE PANELS
Bakelite Panels can be supplied in any size and thickness, either Black or Walnut. Special panels must be paid for in advance (not C.O.D.), and are not subject to exchange. Per sq. in.
Black Walnut
1/4" thick 1/4c 1/2c
3/16" thick 1/4c 2c
Minimum charge, 50c.

PANEL ENGRAVING

You may have your panels engraved in any style or manner you desire. Always send exact layout carefully lettered. Price per letter or figure, 5c.
Straight Line Borders count one letter to 6" or line.

Engraved panels are not exchangeable if according to layout submitted. Minimum charge, 50c.

BASEBOARDS

Made of good quality ply wood about 3/8" thick. Any size can be supplied at approximately 25c per 100 sq. in.

No.	Size	Price
3K2430	9x17	36c
3K2431	9x20	45c
3K2432	9x23	50c
3K2433	9x25	54c
3K2434	9x29	63c
3K2435	10x17	39c
3K2436	10x20	48c
3K2437	10x23	54c
3K2438	10x25	59c
3K2439	10x29	68c

BAKELITE TUBING

Genuine Bakelite Tubing, natural color. Pieces cut 3" long, wall 1/16" thick.

No.	Inside Diameter	Price Each
3K2457	1"	12c
3K2458	1 1/2"	14c
3K2459	2"	18c
3K2460	2 1/2"	19c
3K2461	2 3/4"	20c
3K2462	3"	21c
3K2463	3 1/4"	22c
3K2464	3 1/2"	23c
3K2465	3 3/4"	24c
3K2466	4"	25c
3K2467	4 1/2"	26c

Tubing any length and any diameter can be supplied at prices in proportion to those above. Minimum charge per order of special tubing, 50c.



HARD RUBBER PANELS

These Panels are the very best quality made by the Hood Rubber Co. Guaranteed against defect. Finely polished, will not warp. Insulates your Receiver; will not chip when machined. Supplied in Black, and also combination Walnut one side, Florentine on the other side. All panels 3/16" thick.



No.	Black Size	Price
3K2440	7x9	\$0.53
3K2441	7x10	.59
3K2442	7x12	.67
3K2443	7x14	.79
3K2444	7x16	.91
3K2445	7x18	.99
3K2446	7x21	1.18
3K2447	7x24	1.33
3K2448	7x26	1.47
3K2449	7x28	1.59
3K2450	7x30	1.70

No.	Combination Black and Walnut Size	Price
3K2451	7x18	\$1.21
3K2452	7x21	1.41
3K2453	7x24	1.61
3K2454	7x26	1.74
3K2455	7x28	1.88
3K2456	7x30	2.00

Vee-Dee Metal Panels

Beautifully decorated Stock Metal Panels. By using a metal panel you complete the shielding of your set. These panels are easily drilled with ordinary breast drill. Walnut finish decorated with Gold lined Border.

No.	Size	List	Net
3K2468	7x18	\$2.15	\$1.27
3K2469	7x21	2.50	1.47
3K2470	7x24	2.85	1.68
3K2471	7x26	3.05	1.80
3K2472	7x28	3.30	1.95
3K2473	7x30	3.55	2.09

You can reduce the price of the popular Kits shown in this catalog by substituting a decorated stock metal panel for the Bakelite Panel listed and drilling it yourself.

Drilled and Engraved Bakelite Panels for



Popular Kits

Gold decorated and correctly drilled front panels and correctly drilled Sub-Panels for the popular sets featured in leading Radio magazines.

	List	Net
3K2474—Bremmer-Tully Power Six	\$5.68	\$3.34
3K2475—Victoreen Universal Super 8	6.00	3.53
3K2476—H. F. L. Nine in Line Super	6.90	4.06
3K2477—H. F. L. Nine in Line Sub-Panel	5.65	3.33
3K2478—New Karas 2 Dial Equamatic	5.68	3.34
3K2479—New Karas 2 Dial Equamatic Sub-Panel	6.90	3.53
3K2480—World's Record Super 10	6.90	3.94
3K2481—World's Record Super 10 Sub-Panel	7.00	4.12
3K2482—Camfield Super 9 Front	4.47	4.47
3K2483—Camfield Super 9 Sub-Panel	7.75	4.56
3K2484—Tyrman Ten	6.90	4.06
3K2485—Tyrman Ivory Sub-Panel	6.20	3.65
3K2486—Magnaformer Front	6.50	3.83
3K2487—Magnaformer Sub-Panel	6.50	3.83

We can supply decorated and drilled Panels and Sub-Panels for any popular Kits whether listed above or not. If not listed allow us two days to have engraving done to order.

LIGNOLE PANELS



Lignole is the beautiful new insulated Radio panel wood dielectric and moisture resistant. Here you have the natural wood color. Very artistic for the high class radio set. Two-Tone Lignole with beautiful inlay separation border. Walnut Finish.

No.	Size	List	Net
3K2488	7x18	\$6.52	\$4.47
3K2489	7x21	6.94	4.76
3K2490	7x24	7.36	5.05
3K2491	7x26	7.64	5.24
3K2492	7x28	7.92	5.43
3K2493	7x30	8.20	5.63

Lignole panels can also be supplied in plain, or mahogany, or two-tone without inlay.

Belden Aerial Wire



Belden enamel aerial wire consists of individual enameled wires braided together. Enamel is baked on, prevents corrosion. Very high grade wire.

3K2601—Stranded 100-ft. roll.....	List	Net
3K2602—Stranded 150-ft. roll.....	\$1.00	64c
2K2603—Solid enameled 100-ft. roll.....	1.15	73c
BARE COPPER WIRE		
3K2604—Stranded bare wire, 100-ft. roll.....	75c	48c
3K2605—Solid bare wire, 100-ft. roll.....	.65	42c

Belden Aerial Kit



Contains all essentials for making complete aerial-insulation. Very high grade material. Kit contains: 100 ft. bare copper aerial, 50 ft. Belden solid lead-in wire, 1 Belden lightning arrester, 1 ground clamp, 1 15-inch lead-in strip, 2 porcelain insulators, essential hardware, 1 instruction book.
3K2600—
 List, \$2.50. Net.....\$1.47

Lead-In Wire

Designed especially for use as lead-in and ground wire. The insulation is readily removed and the tinned copper is easily soldered. Rubber insulated.



3K2606—Stranded wire, 50-ft. roll.....	List, \$1.00.	Net..... 64c
3K2607—Solid copper, 50-ft. roll.....	List, 60c.	Net..... 39c

Window Lead-In



A high grade lead-in. Provides a reliable and simple method for bringing the aerial into building, avoids cutting holes in walls. Extremely flexible, phosphor bronze spring clips.
3K2608—1 1/2" long, 3/4" wide
 List, 35c. Net..... 21c
3K2609—15" long, 1/2" wide
 List, 25c. Net..... 15c

Light Socket Aerial



Every outlet an aerial; consumes no current; absolutely safe. Listed by board of fire underwriters.
3K2610—
 List, \$1.00. Net, 64c

Marco Tape Aerial



This high grade stranded aerial wire is very flexible. Can be placed behind picture molding and used as inside aerial.
 Stranded and insulated. Equivalent to 400-ft. single strand.
3K2611——List, 60c. Net, 39c

Ground Clamps



Instant adjustable ground clamp, easily fitted to all pipes. Positive contact insured. Very high grade material.
3K2612——List, 15c. Net, 10c

Insulators



Brach glass insulator is of high grade dielectric value; will not accumulate dust or dirt. Tensile strength very high.

3K2614—Each.....	List	Net
	25c	15c

Porcelain Insulators

White porcelain, deeply corrugated to prevent leakage. 3/4 inches long by 1/2 inches diameter.

3K2615—Each.....	Doz. List	Net
	10c	80c

X L Binding Posts

A binding post that is unusually different. Push it down with your thumb, insert wire, remove pressure and wire is firmly held. Releases instantly. Specified in many popular circuits. Very popular.



Following marked posts:
3K2639—Aerial
3K2640—Ground
3K2641—A Bat. —
3K2642—A Bat. +
3K2643—B Bat. —
3K2644—B Bat. 22 1/2 +
3K2645—Loud Speaker
3K2650—C Bat.
3K2651—C Bat. +
3K2652—B Bat. 45+
3K2653—B Bat. 90+
3K2654—B+ Amplifier
3K2655—B Bat. +
3K2656—Loop.
3K2657—A+B—
 List, each, 15c.
 Net..... 10c

Lightning Arresters



Arrester furnished in a neat moulded base and may be mounted within the building or on the set. Very highest grade and safest arrester for home use. \$100 insurance guarantee.
3K2616——List, \$1.50. Net, 96c

Belden Arrester



Non-Air gap type. Body of heavy porcelain, weatherproof. Approved by Board of Fire Underwriters.

3K2637—Each.....	List	Net
	85c	54c

Muter Arrester

Brown porcelain shell 3/4" long, 1 1/4" wide, sturdy and reliable. Air-Gap type positive in action. Approved by Underwriters' Laboratories for outdoor or indoor use.

3K2638—Each.....	List	Net
	35c	21c

The Ekko Ekko Clamp

clamp is easy to use. Screw the ground wire to clamp. Attach the clamp to the nearest pipe. Insures positive contact. Most popular clamp in use.
3K2613——List, 25c. Net..... 15c



Eby Binding Posts

The most popular binding post in use. Completely insulated with non-removable top.



Marking
3K2617—PLAIN
3K2618—ANT.
3K2619—GND.
3K2620—
3K2621—A-BAT. +
3K2621—A-BAT. —
3K2622—B-BAT. —
3K2623—B-BAT. +
3K2624—C-BAT. —
3K2625—C-BAT. —
3K2626—22 VOLTS +
3K2627—45 VOLTS +
3K2628—67 VOLTS +
3K2629—90 VOLTS +
3K2630—135 VOLTS +
3K2631—150 VOLTS +
3K2632—B+ DET.
3K2633—B+ AMP.
3K2636—C—AMP.
 List, 15c.
 Net..... 10c

X L Binding Post Strip



Handsome polished panel with gold mounted push posts with white engravings. Aerial, ground, A—, A+, B—, B+, Det., and B+ Amp.
3K2658——List, \$1.50. Net..... 96c

X L Vario Densers

Genuine Bakelite casing, all metal parts, phosphor bronze nickelplate. For use in popular circuits.

3K2659—Model N. 1.8 to 20 mfd.....	List	Net
3K2660—Model G-1. .0002 to .0001 mfd.....	\$1.00	64c
3K2661—Model G-5. .0001 to .0005 mfd.....	1.50	96c
3K2662—Model G-10. .0003 to .001 mfd.....	1.50	96c
	1.50	96c



BELDEN Magnet Wire

We have in stock a complete assortment of Magnet wire, suitable for all kinds of experimental and radio work. One-piece only on spools. Prices quoted are for 8-oz. spools. Sizes are standard B.S. Be sure to state size of wire and article number.

Double cotton white	Double silk green	Wire size	Ft. per 8-oz. spool
3K3200	3K3201		
Prices net	Prices net		
per spool	per spool		
28c	49c	18	90
31c	54c	20	149
35c	64c	22	232
37c	74c	24	356
49c	89c	26	540
61c	\$1.08	28	815

Tinned "Bus" Bar



Cut Into two-foot lengths

	10 lengths	100 lengths
3K3207 —Round	13c	\$1.20
3K3208 —Square	15c	1.30

Size 14 tinned copper wire. Used for wiring sets; handy and easy to solder.

Colorubber Wire



The ideal wire for set hook-ups and set wiring. The flexible wire makes fitting easy. The rubber insulation prevents accidental short circuits. The

different colors in which Belden Colorubber is supplied permits wiring sets by code. The cotton serve under the Colorubber facilitates stripping, and the tinned copper wire is easily soldered. Ideal for ground wires.

3K3205—Stranded Tinned Copper Wire, insulated with Colorubber (colored rubber) either natural, green, blue, red, brown or yellow; 25 ft. in a carton; one color per carton. State color wanted. List, 40c. Net.....24c

Celatsite Wire



A superior radio bus-bar made of No. 14 copper wire with a non-inflammable insulation. Bends without cracking. Moisture proof and has high insulating value. Specify color desired—black, yellow, red, green and brown. Solid cut in 30" lengths. All colors.

3K3209—10 lengths. List, 90c. Net.....60c

Same as above, only stranded copper wire twisted. 25-ft. coils in box. Same five colors as above. State color desired.

3K3210—Per box of 25. List,....80c
Net.....59c

Belden Litz Wire



Consists of many strands of fine Beldenamel wire, cabled together and protected by double serving of green silk. Each strand of Belden Litz Wire is enameled separately. The ideal wire for winding low loss coils.

3K3202—100-ft. spools. List, \$1.00. Net.....64c

Belden Loop Wire

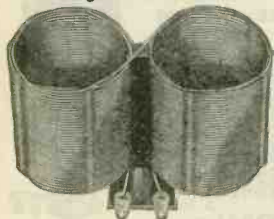


This flexible covered wire is ideal for winding radio loops or for indoor aeralis. The non-stretching feature makes it especially suited for radio loops.

3K3204—Same as above except has double serve of brown cotton. 125-ft. spool. List, \$1.00. Net.....64c

3K3203—Brown silk. 65 strands of fine copper wire with one serve of cotton and a braid of brown Rayon overall. 125-ft. spool. List, \$1.75. Net....\$1.11

Benjamin Coils



The Benjamin "Lekless" Transformer has uniformly high inductance, low distributed capacity and low resistance. Can be used in any type of tuned radio frequency circuit or with more than two steps of radio frequency. Especially desirable for single control. Designed to be used with .00035 Mfd. condensers. Range 200 to 550 meters.

3K3211—Set of three coils. List, \$7.50. Net.....\$4.78

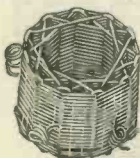
Bodine Twin-8 R. F. Transformer



A new type of closed field coil to improve all types of tuned R.F. sets. Field designed to have very high amplification. Easy to assemble, strong and compact. Mounting brackets intact.

3K3212—Set of three coils, .00035. List, \$6.00. Net.....\$3.83
3K3213—Set of three coils, .0005. List, \$6.00. Net.....\$3.83

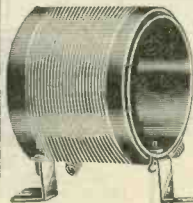
R. F. COILS



Small but efficient tuned radio frequency coils only 2" in diameter. Wave length range 200 to 550 meters when used with .00035 mfd. condenser. Packed three in a box, complete with mounting strips.

3K3214—Set of 3 coils. List, \$2.00. Net, \$1.17

Formalite Radio Frequency Coils



3" in diameter and 2 1/2" long. To be tuned with a .00035 mfd. condenser; wave-length range 200 to 550 meters.

3K3215—Set of 3 coils. List, \$5.00. Net, \$2.67

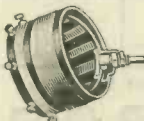
Baby Solenoid Coils



This coil is the latest designed radio frequency transformer wound on 1 1/4" Formalite tubing, machine spaced No. 28 enameled wire. Designed to be used with .00035 mfd. condensers for wave-length range of 200 to 500 meters.

3K3216—Set of three coil complete with mounting brackets. List, \$3.00. Net, \$1.77

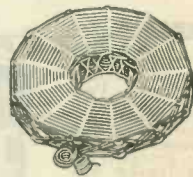
3 Circuit Tuner



Wound on 3 1/2" diameter tubing, 2 1/2" long with nickel plated one-hole mounting bracket and hardware. 200 to 550 meters with .0005 mfd. condenser.

3K3217—List, \$2.00. Net, \$1.18

Flat Type R. F. Coils



These are highly efficient low loss radio frequency transformers wound in well-known spider web fashion. Range 200 to 550 meters when tuned with .0035 mfd. condenser.

3K3218—Set of three complete with mounting brackets. List, \$1.75. Net.....\$1.03

Stroboddy Coils



Designed especially by R. E. L. for Stroboddy Receiver featured by Radio News. Four coils required.

3K3219—Type F with base. List, \$4.50. Net.....\$2.87
3K3220—Type F without base. List, \$4.00. Net.....\$2.87

Consrad Publications

25c Books

These books are carefully written so that persons not having technical knowledge can easily understand them.

- 3K3602—Tips for Radio Amateur Constructor.
- 3K3603—How to Make Practical Radio Receiving Set.
- 3K3604—Radio Frequency Amplification.
- 3K3605—How to Make Loud Speakers.
- 3K3606—How to Tune Your Radio Set.
- 3K3607—150 Radio Hookups.
- 3K3608—All about Radio parts.
- 3K3609—History and Operations of the Vacuum Tube.
- 3K3610—Neutrodyne; All About It.
- 3K3611—Radio News Trouble Finder.
- 3K3612—Reflex Radio Receiver. Price, each 17c

25c Diagram

3K3613—How to Make a Wave Trap and Clarifier. Net 17c

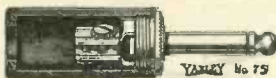
50c Diagram

3K3614—How to Make a Neutrodyne. Net 33c

50c Books

- 3K3615—Radio News Amateur's Handbook.
- 3K3616—1001 Radio Questions and Answers.
- 3K3617—Radio News Super-Heterodyne Book.
- 3K3618—Television. Net, each 32c

PLUGS



Yaxley Plug

Neat appearing with polished bakelite handle. Shorting impossible. Duplex plug screw terminals, coin slots and tie cord clips.

3K3619—List, 50c. Net, 30c

E-Z Plug



Made of high quality composition. A good serviceable plug at a reasonable price.

3K3620—List, 35c. Net 21c

De Jur Plug



Small in size, neat appearing, body of high grade insulation material prevents shorting or leakage.

3K3621—List, 25c. Net, 15c

Poly Plug



Exceptionally well made plug. Holds wires criss crossed so they can not be jarred, thus preventing disturbance.

3K3622—Black. List, 50c. Net, 30c

3K3623—Mahogany. List, 50c. Net, 30c

Radio Encyclopedia



S. Gernsbach's radio encyclopedia is the only standard work ever published in America attempting to classify alphabetically the countless words used in the highly specialized science of Radio. The encyclopedia is written in plain English so that everybody can understand the definitions and descriptions. The work contains 1,930 definitions, 549 photographs, drawings and diagrams.

3K3601—List, \$2.00. Net, \$1.47

Reliable Detectors



Atomite has no equal for uniform loudness all over. By selection of best materials and high grade workmanship we supply the buyer with what he expects and demands. The same quality that makes for loudness in Atomite gives it long distance reception.

- 3K3624—Galina. List, 25c. Net, 15c
- 3K3625—Silicon. List, 50c. Net, 30c

Howe Crystal Set

It is not a toy! The Howe was designed by practical radio experts; it is absolutely trouble and foolproof. Requires no batteries—has no exposed wires. As many as eight people can "listen in" at the same time. The metal case is finished in a beautiful antique verde. Binding posts are riveted and can't pull out. Only the highest grade crystals are used. Stations can be logged by numbers. It is a significant fact that radio broadcasting stations use this receiver to test how their programs are "coming through."



3K3632—Set as shown. List, \$1.75. Net, \$1.03

Midget Switches



Cord Connector



Connects speaker cord with extension cord so speaker can be moved any distance from set.

3K3630—List, 35c. Net, 22c



Brach Shock-Proof Plug. Insulated to withstand high voltages for Loud Speakers.

3K3633—List, 50c. Net 30c

NION FIXED DETECTOR

Guaranteed to bring in loud signals on crystal sets and on reflex sets where excessive voltage is not used.

3K3626—List, \$1.00. Net 60c

Citizen's Call Book

Contains complete up-to-date list of all broadcasting stations in the world, a wonderful picture section and beautifully illustrated construction articles showing how to build all of the latest circuits. We always supply the latest copy



3K3600—List price, 50c. Net, 32c

RADIO TOOLS—SCREWS—SOLDERING IRONS

BRASS SCREWS

Polished Nickel-Plated Heads

Oval-Head Machine Screws
Size 6-32 threads to inch.

Length	Gross
3K3700— $\frac{1}{2}$ inch.....	40c
3K3701— $\frac{3}{4}$ inch.....	49c
3K3702—1 inch.....	56c

Round-Head Machine Screws
Size 6-32 threads to inch.

Length	Gross
3K3703— $\frac{1}{2}$ inch.....	40c
3K3704— $\frac{3}{4}$ inch.....	47c
3K3705—1 inch.....	53c
3K3706— $1\frac{1}{4}$ inch.....	79c
3K3707—2 inch.....	89c

Flat-Head Machine Screws
Size 6-32 threads to inch.

Length	Gross
3K3708— $\frac{1}{2}$ inch.....	40c
3K3709— $\frac{3}{4}$ inch.....	47c
3K3710—1 inch.....	53c

Oval-Head Wood Screws
Proper size for radio work.
Sizes 6 and 7.

Length	Gross
3K3711— $\frac{3}{4}$ inch.....	59c
3K3712—1 inch.....	81c

Round-Head Wood Screws
Proper size for radio work.
Size 5 and 6.

Length	Gross
3K3713— $\frac{3}{8}$ inch.....	61c
3K3714— $\frac{1}{2}$ inch.....	67c
3K3715— $\frac{3}{4}$ inch.....	73c
3K3716—1 inch.....	81c

Flat Washers
Brass, nickel plated.
Fit size 6 screws.

Gross	
3K3717.....	31c

Hexagon Nuts
Brass, nickel plated.
Chambered and countersunk for assembly work. Fit all size 6 screws with 32 threads to inch.

Gross	
3K3718.....	44c

Flat Lugs
Package of 25.

3K3720.....	15c
-------------	-----

Flat lugs with two holes makes soldering easy.

Solderless Lugs
Similar to lug above. Very handy for small connections. Requires no solder.

3K3721—Package of 50.	25c
-----------------------	-----

Radio Screw Assortment
Assortment of wood screws, machine screws, nuts and washers in the sizes needed for radio work.

3K3723—	List price, 50c. Net.....	29c
---------	---------------------------	-----

Screw Drivers



Well made for radio work.
List, 15c. Net, each

3K3500—2" Blade	10c
3K3501—3" Blade	11c
3K3502—4" Blade	12c
3K3503—5" Blade	13c

Counter Sink



For shaping holes in any kind of panel.

List	Net
3K3504.....	20c 15c

Reamer



For enlarging drilled holes. Tapered.

List	Net
3K3505.....	25c 17c

Socket Wrench Set



Contains 5 sockets, $\frac{1}{4}$ " 5/16", $\frac{3}{8}$ ", 7/16", $\frac{1}{2}$ ".

List	Net
3K3506.....	75c 45c

Radio Wrench Set



For all hexagon nuts. Three wrenches in leather case. Sizes $\frac{1}{4}$ ", 5/16", $\frac{3}{8}$ ", 7/16", $\frac{1}{2}$ " and odd size jaw.

List	Net
3K3507.....	25c 17c

Center Punch



To mark panel to start drill point. Makes drilling easy and accurate.

List	Net
3K3508.....	15c 10c

Scriber



Lays out panels accurately. Insures neatness.

List	Net
3K3509.....	25c 17c

"Crow Bill" Pliers



Long thin nose for all radio-electrical work. Make all points accessible. Makes perfect eyelets.

List	Net
3K3510.....	50c 33c

Radio Nut Forceps



For a perfect grip on all sized hex and square nuts. Fine for other pin work or for knurling. Nicely finished.

List	Net
3K3511.....	60c 39c

AMERICAN BEAUTY IRONS



This well-known iron has proved its worth over years on the market. Sizes shown are for light and medium work. Ideal radio sizes.

3K3512—100-watt; tip $\frac{3}{8}$ "	List \$8.00	Net \$5.83
3K3513—200-watt; tip $\frac{1}{2}$ "	List 9.25	Net 6.86
Extra Tips		
3K3514— $\frac{3}{8}$"	.....	.60
3K3515— $\frac{1}{2}$"	.....	1.20
		.89

WHITE BEAUTY IRONS



Will not burn out. 6-ft. cord. Furnished with two tips. Guaranteed for one year. 110-volt. Any voltage supplied on request.

List	Net
3K3516.....	\$3.50 \$2.11

BRACH JR. IRON

Specially designed for radio work. 115 volts. $\frac{3}{8}$ " pencil tip.

3K3517—	List.....	\$2.00
	Net.....	\$1.18



KESTER ROSIN CORE RADIO SOLDER



"Requires only heat." No fuming, spattering over delicate apparatus. A hollow ribbon of tin and lead around a pure rosin flux. Has proved to be ideal for careful radio work. Packed in cans, cartons and by the 1-lb. roll.

List	Net
3K3518—Per can.....	\$0.25 \$0.17
3K3519—Carton of 10 cans.....	2.50 1.59
3K3520—1-lb. spool, per spool.....	.67



SOLDER-ALL

Complete metal solder and flux combined. Small quantity applied to joints to be soldered when heated will



RADIO VISE

Almost a necessity to radio set builders; made of certified malleable iron castings; unbreakable. Width of jaws, $2\frac{1}{2}$ "; opens to 2"; weight, 4 lbs.

3K3522—	List.....	\$2.00
	Net.....	98c

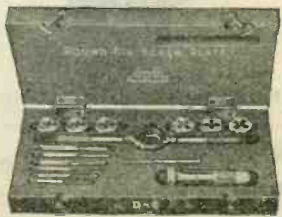
unite parts same as wire or bar solder. In collapsible tubes.

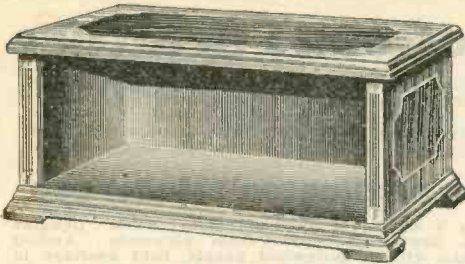
3K3521—	List.....	25c
	Net.....	17c

Contains taps and dies for 4-36, 6-32, 8-32, 10-24, 14-20, also adjustable tap wrench. Designed for radio work. With fine wooden case.

3K3523—	List, \$9.00
	Net, \$5.73

TAP AND DIE SET





Walnut Two-Tone Cabinet

Beautifully finished and decorated cabinet at a very low price. Panels on top and sides genuine dark walnut on light colored walnut panels, outlined by inlaid gold striping. Full length nickeled piano hinge ends, grooved for panel. Cabinet solidly built, 10 inches in depth behind panel.

Catalog No.	Panel Size	List Price	Net Price	Shipping Weight
6K5214	7x18	\$11.00	\$5.79	16 lbs.
6K5215	7x21	12.00	6.52	18 lbs.
6K5216	7x24	13.00	6.81	20 lbs.
6K5217	7x26	14.00	7.59	21 lbs.
6K5218	7x28	15.00	8.09	22 lbs.
6K5219	7x30	16.00	8.72	23 lbs.



Two-Tone Battery Table

Very attractive battery table finished in two-tone genuine walnut. Dark walnut panels outlined by gold striping on lighter walnut background. Front has appearance of two doors. Back left open to give free access to batteries. Top is of selected gum wood, hand-rubbed to a finish, having appearance of solid walnut. Height, 30"; Top, 16x30"; Inside Depth, 13 3/4"; Height, 14 1/2"; Width, 25 1/2".

6K5220—List price, \$18.00. **\$9.26**
Net



Console Speaker

Can be used in any standard console air column 60 inches. Bell, 6"x15"; Depth, 10 1/2". Will take standard units.

Without Unit
3K5174—**\$5.29**
List, \$9.00. Net,

Low-Boy Horn



For low model console speaker compartments. Bell, 12" by 6 3/4"; Depth, 5 1/2". Uses standard speaker units.

3K5176—**\$2.94**
List, \$5.00. Net,

SuperPhonic Horn



Designed in line with the new "Orthophonic" principle this horn produces remarkable tonal quality. Air column and tone chamber measure 8 feet, but due to proper scientific construction, horn measures over all 15"x15"x12" deep. Will reproduce with quality all notes of the audible scale without vibration or chatter. Will take all standard units.

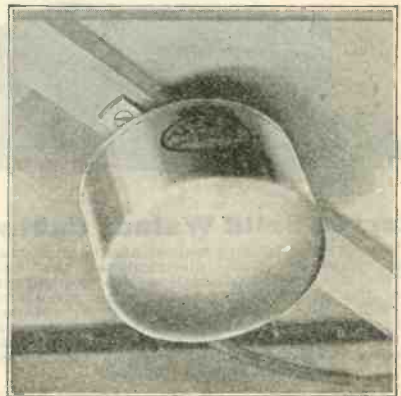
3K5175—Each. **\$8.23**
List, \$14.00. Net,



Radio Tool Chest

Contains 10 practical tools designed by men who knew exactly what was required for Radio work. Complete in attractive dark blue and gold case.

3K3575—List, \$3.00. **\$1.96**
Net



"UTAH" Piano Speaker

For Baby Grand or Upright Piano. Powerful nickel finish Utah unit, ready to attach to sounding board of your piano. At once converts it into a powerful high grade speaker at very small cost. Equipped with 25-ft. cord. The very latest "Utah" success.

2K2765—List price, \$10.00. **\$5.88**
Net

Learn to Recognize Good Furniture

Look into the furniture you sell. The construction—see that solid and firm material is used, that all shelves are grooved into the ends, and that ends are grooved into bases and top.

Then look at the finish. Has it depth of body? Is it smooth as glass? Is it uniform in color? Is it finished so that you would have it in your living room alongside a piano if need be? Your customers deserve this consideration and they will have it if you as a dealer are to prosper and profit. Do not be satisfied with price alone.

The "Arlington" Model 860



Truly a wonderful piece of cabinet work. Genuine walnut, figured in butt walnut plywoods. Arched doorways, arched satinwood panels, bold overlays in relief with hand-painted polychromed carvings as center motifs. Beautifully finished. The finest radio console we have to offer. Width, 63"; height, 45"; depth, 18". Complete with Ortho type air column horn and Baldwin Unit. Takes up to 24" panel. Has standard loop compartment. Will house any power pack or eliminator.

6K5209—List, \$250.00. Net.....\$147.00

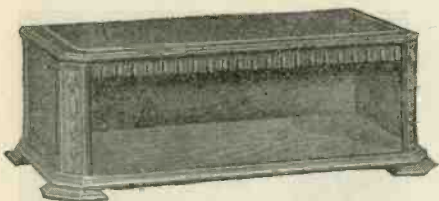
The "Seville" Model 208

The new redesigned "Seville" houses the Ortho type air column horn. Marvelous Spanish design, a real treat to the eye. Finished in matched butt walnut. Antique brass finished Spanish hardware, richly ornamented by a series of mitred return mouldings and spindle carvings. Complete with Baldwin unit. Takes up to 30" panel. Width, 36"; height, 42"; depth, 18".

6K5210—List, \$140.00. Net.....\$83.32



"FRITTS" Super-Quality Cabinets



Carved Solid Walnut Cabinet

This cabinet is solid walnut and is of the same high quality which distinguishes the entire Fritts line. The decorations are polychromed. Top and sides slightly raised with panel effect. Nickerled piano hinge and lid stay. Made to take standard 7" panel. If an 8" panel is used, it is only necessary to remove the top panel decorative strip. All cabinets 8" high inside by 12" deep from panel to back.

Cat. No.	Panel size	Shp. wt., crated	List price	Net price
6K5221	7"x18"	40 lbs.	\$21.00	\$12.35
6K5222	7"x21"	40 lbs.	22.00	12.94
6K5223	7"x24"	45 lbs.	22.50	13.23
6K5224	7"x26"	45 lbs.	23.50	13.40
6K5225	7"x28"	50 lbs.	24.50	13.68
6K5226	7"x30"	55 lbs.	26.50	14.24

We also carry Fritts Super Cabinets and Super Consolelet at correspondingly reasonable prices.



FRITTS Super Cabinet Table

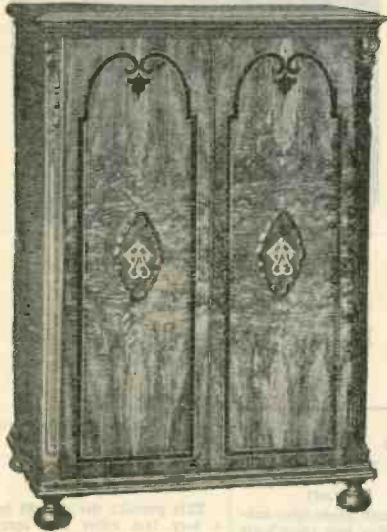
The Super Table is very attractive and a beautiful addition to any setting. Is especially designed to match the Standard Super Cabinet at the left and provides a perfect combination in color and workmanship. All decorations are slightly polychromed and diamond inserts on front doors are genuine burl walnut. Top, sides and doors have raised panel effect. Hardware, antique brass. Is suitable for cabinets using up to 30" panels. Dimensions: Top, 35"x15½"; height, 32". Inside dimensions of compartment: 14½" deep by 30" long by 10½" high. Shipping weight, crated, 75 lbs.

6K5230—List price, \$52.50. Net....\$29.40

FINEST RADIO FURNITURE MADE

These HIGH GRADE Consoles and Cabinet Speakers have been chosen by us because we believe them to be the BEST FURNITURE VALUES available in the United States.

These cabinets, when equipped with large Newcombe-Hawley Horn, will accommodate all standard-A, B and C batteries, and all standard B Eliminators, but will not accommodate the large A, E. and C power supplies, such as Philco, Balkite, etc., or motor generators. If you wish to install these, it will be necessary to state so on your orders, and a special Horn will then be installed permitting this extra space.



THE "INTERMEZZO"—Model 212

Created in direct response to a demand for a Cabinet of strictly Orthotype design, the Intermezzo has already achieved a popularity that is amazing.

The two doors are of the most select matched Butt Walnut, and made in perfect pairs. Arch design carved into the face of the doors gives definite outlines for the rich shadings, done by air brush. The center carved medallion sets off the beautiful antique Brass Pull in a manner that must be seen to be appreciated.

The corners of the cabinet have been cut out at angles and a heavy carving of acanthus leaves forms a drop that is very pleasing.

In the interior the scroll with its turned columns forms beautiful colonnade set off by neutral colored silk. Wonderful radio music pours forth from the genuine Newcombe-Hawley Orthotype Speaker mounted within.

Outside Specifications—Width, 30 ins.; Height, 42 ins.; Depth, 20 ins.

Battery and Speaker Compartment—Width, 26 1/4 ins.; Height, 25 ins.; Depth, 16 1/4 ins.

Set Compartment—Width, 24 ins.; Height, 9 ins.; Depth, 15 1/2 ins.

Will house the average requirements of power units.

6K5200
Selling price, \$125.00
Net
\$73.50



THE "CARAVEL"—Model 218

The CARAVEL, while distinctly Spanish, is not freakishly so; wrought iron stretchers have been purposely avoided as have gaudy colored polychroming.

In this charming creation have been combined two very popular features: First, from point of beauty, the Spanish design, with its antique wrought brass hinges and hardware, with its carved twists and the beautiful Spanish finish; second, the Orthotype construction, embodying the long air column horn, bringing forth the entire tonal register.

The CARAVEL, as you know, is the Spanish Treasure Ship, and truly this creation is a treasure ship, bringing to you the rarest treasures of entertainment.

Outside Specifications—Width, 28 ins.; Height, 43 ins.; Depth, 19 ins.

Set Compartment—Width, 24 ins.; Height, 9 ins.; Depth, 15 ins.

Battery and Speaker Compartment—Width, 22 ins.; Height, 24 ins.; Depth, 15 ins.

Will house the average requirements of power units.

6K5201—Selling price, \$150.00
Net **\$88.20**



THE "NEWHALL"

A speaker cabinet equipped with a genuine Newcombe-Hawley long air column Horn and powered with a genuine Orthotype Baldwin unit.

Produced in beautifully finished Adam Brown Mahogany. The Top, Front and Ends are genuine 5-ply mahogany and the solid parts, such as Legs, Rails and Pilasters, are quarter-sawed Red Gum.

You cannot produce a better toned speaker cabinet, no matter what price you pay, as this has the same horn as is used in \$250.00 list cabinets.

Battery and Speaker Compartment will house the average power units.

Height, 30 ins.; width, 32 ins.; Depth, 18 ins.

6K5202—Selling price, \$65.00
Net **\$38.22**



List \$35.00
Net \$20⁵⁸

**THE
"LOWBOY"**
Model 20

At Left
The original type of console, simple of design, very well made and beautifully finished. Occupies little space but with ample room for all radio requirements. Design an adaptation of Hepplewhite with hand-rubbed Adam Brown mahogany finish. Width, 30"; height, 38"; depth, 16". Will accommodate set up to 28" by 12 1/2" deep. Top lifts for access to set. Mahogany 5-ply front and top. Balance selected hardwoods with gold striping.

6K5203—List price, \$35.00. Net..... \$20.58



List \$48.00
Net \$28²³



List \$45.00
Net \$26⁴⁶

The "SUPER"
Model 25

At Left
Staunch dependable cabinet. Top and front 5-ply mahogany; balance of selected hardwoods. Adam Brown mahogany finish and gold striping. Will house set up to 32" long or 21" with inside speaker. (No speaker supplied. See page 43.) Ideal for Superheterodynes. Outside width 36"; height, 38"; depth, 16".

6K5205—
List \$45.00
Net \$26.46

The "HIGH-BOY"
Model 31

Above
This popular design will be a very fast seller this year. Top and front of 5-ply mahogany, balance selected hardwoods with hand-rubbed Adam Brown mahogany finish with gold striping. Equipped with speaker horn (no unit; see page 22). Will accommodate set up to 28" long, outside width 30"; height, 42"; depth, 18". Mounting panel supplied. Top lifts for access to set.

6K5206—
List \$48.00
Net \$28.23

BATTERY CABINET—Model 11

To be used for smaller sets having cabinets less than 28" in length. Hand-rubbed Adam Brown mahogany finish with gold striping. Ventilates at the rear. Width, 30"; height, 29"; depth, 16".

6K5207—
List. \$23.00. Net..... \$13.53

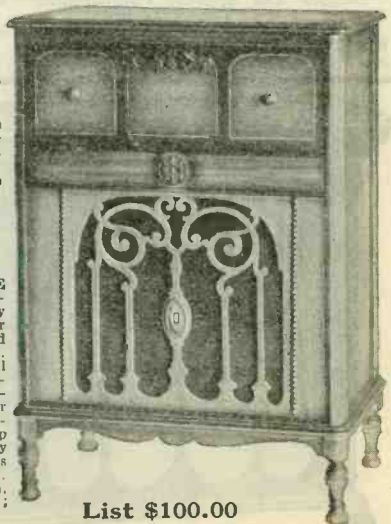


List \$23.00
Net \$13⁵³

**THE
"SONATA"**
Model 38

At Right
**ORTHO-TYPE
SPEAKER** Console. Beautifully finished. Has air-column horn and Baldwin Unit. Speaker scroll backed by neutral silk. Battery space for average radio requirements. Top and front 5-ply mahogany. Takes panel up to 22". Outside width, 24"; height, 40"; depth, 21".

6K5211—
List \$100.00
Net. \$58.80



List \$100.00
Net \$58⁸⁰

HOLD-HEET and REX APPLIANCES



GUARANTEE { **HOLD-HEET — 2 Years**
REX — — — 1 Year

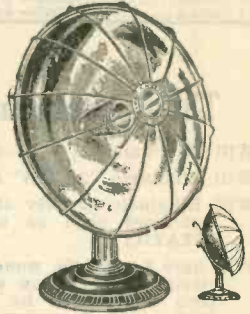
Nationally Advertised

Hold Heeter



A beautiful smooth bowl heater. Solid heavy 13% copper bowl Case Iron Base. Finished in mahogany bronze. Separable cord connection back of heater. Inverted cone shapes wire element. Spreads heat over wide area. 110 v. or 220 v.
4K3300—110 v.
List, \$6.50.
Net, **\$3.73** each.

Rex Heeter



A heater designed by an artist. Dark mahogany bronze finish. 12" bowl nicely copper plated and polished. Has substantial guard locking in place. Separable plug back of heater. Inverted cone element. Very rugged. 110 volts.

4K3302—
List, \$4.85. **\$2.86**
Net

Hold-Heet Nicalume 9 Cup Percolator



The biggest value on the market in nickel plated percolator. Finished in sparkling easy-to-clean Nicalume. Substantial rugged construction throughout.
4K3304—
List, \$8.50. **\$5.00**
Net

Rex Aluminum Percolator



Finely constructed of high grade aluminum. Has steel sheathed heating element which can easily be removed or renewed. Pumps only water, assuring coffee without bitter element. Very attractive. 7 1/2 cup size. 110 v.
4K3303—
List, \$4.25. Net, **\$2.50**

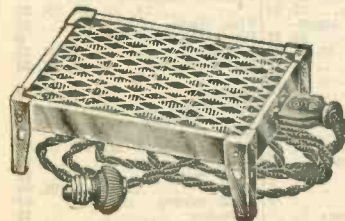
Hold-Heet Percolator Set



Beautiful 4-piece set consisting of 9-cup percolator, heavy round nickel finished tray 12 1/2" with sugar and creamer set. Works on hot water principle. An ideal item for a gift. Patented Nicalume percolator.

extra large gold lined Creamer and Sugar.
4K3305—
List, \$17.25. Net, **\$10.15**

Hold-Heet Grill Stove



Biggest grill value on the market. Large enough for two slices of bread. Toasts and keeps coffee pot warm at same time. Detachable plug. Insulated handles. Heavy nickel plated. Light and easily carried. Size 5"x9"x3".

ried by travelers yet unbreakable.
4K3307—List, \$2.95. Net, \$1.74

DeLuxe Hold-Heet Waffle Iron



The most beautiful Waffle Iron on the market. Makes full size waffles. Drip catcher on edge of plates and large base acts as tray. Octagonal ebonized handles. Shell of heavy brass beautifully etched and finished in high polished nickel plate. 5 1/2" high. Base 9 1/4". 110 volt.

4K3306—List, \$12.00. Net, \$7.06

Hold-Heet Toaster



Medium priced Toaster of high quality. Full polished nickel throughout. Insulated feet and handles. Heating element distributed to insure even toasting. Size 7 1/4"x4 1/2"x6 1/4". 110 volt.

4K3308—
List, \$3.50. **\$2.06**
Net

Hold-Heet Immersion Heater



This Heater is light, of convenient size, very quick heating, and serves innumerable purposes. Most economical and rapid method of heating a glass of liquid, baby's milk or shaving water. 110 volt.

4K3309—
List, \$3.75. Net, **\$2.21**

**Most Practical
and Convenient
Method**



**With Four Foot
Cable**
(8 ft. Cables on Request at
Slightly Higher Price)

	Multi-Plug Sub-Panel Mount			Multi-Plug Base Bracket			Multi-Plug Bind. Post Socket			Cable with Wall Box Socket			Extension Multi-Plug		
	No.	List	Net	No.	List	Net	No.	List	Net	No.	List	Net	No.	List	Net
5 Contact.....	3K3000	\$1.50	\$0.89	3K3004	\$1.75	\$1.03	3K3008	\$2.00	\$1.18	3K3012	\$1.25	\$0.74			
7 Contact.....	3K3011	2.25	1.33	3K3005	2.50	1.47	3K3009	2.75	1.62	3K3013	1.75	1.03	3K3016	\$3.00	\$1.77
10 Contact.....	3K3002	3.00	1.77	3K3006	3.25	1.92	3K3010	3.50	2.06	3K3014	2.25	1.33	3K3017	4.75	2.80
12 Contact.....	3K3003	4.00	2.36	3K3007	4.25	2.50	3K3011	4.50	2.65	3K3015	3.00	1.77	3K3018	6.00	3.53

WE ANNOUNCE

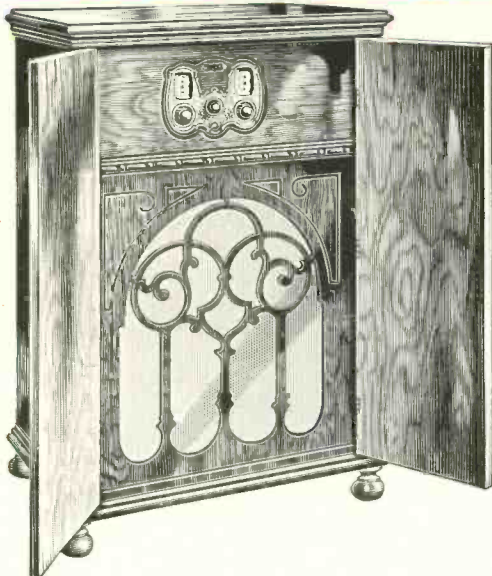
The Revolutionizing New Radio Tube Soon to be on the Market

Will Eliminate "A," "B" and "C" Batteries.
Will Eliminate "A," "B" and "C" Eliminators.
Will Eliminate entirely all external Electric Interference such as motors, etc., and even "STATIC."
Will have Long Life, wonderful volume and ideal clarity of Reception which has never before been approached by any similar electrical device.

Can be used in any Radio Set "Old" or "New" without any accessories or changes whatsoever.
Will bring Radio to your Home in such perfect reproduction and such pure natural tone as if the orchestra or voice were in your own home.
This Tube will soon be on the market. Patents have been allowed. We will make further announcements shortly. Watch our later issues for more detailed information and prices.

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A.C. Set in the beautiful "Spanish" decorated console as shown, finished in Burl walnut, complete with Newcomb Hawley Air Column Speaker and high-grade Baldwin Unit.

- 1K5005**—A.C. set complete. List, **\$205.80**
 \$350.00. Net.....
- 1K5006**—A.C. set, same as above but installed in Console 6K5200 "Intermezzo" (page 45). List, **\$285.00**. Net, **167.58**

THE CIRCUIT

Is the time-proven, tuned radio-frequency amplifiers with detector and three stages of resistance-coupled, audio-frequency amplification—adapted to A.C. operation.

THE AMPLIFYING SYSTEM

A better amplifying system could not be purchased even if you were to offer a thousand dollars. Every tone, from the lowest bass to the highest treble, is reproduced with absolute fidelity.

ADAPTED TO PHONOGRAPH PICK-UP

Leading critics of the music world have marveled at the wonderful music produced from records through the A.-C.-operated Power-Plus Amplifier. Here is an added feature that helps sell this receiving set and keeps it sold 365 days of the year.

POWER-PLUS SETS USE A-C-tron TUBES

A-C-tron tubes that have been on constant tests twenty-four hours a day for over six-month periods have not shown the slightest depreciation. It is practically impossible to burn out the filament.

NO MORE SERVICE WORRIES—NOW ALL PROFIT

Start now and make some real money out of the radio business. Set requires 3 Standard Tubes, 1 Rectifier and 1 each of 6, 10 and 20 mu. A-C-tron Tubes.

- | | | |
|---|--------|--------|
| | List | Net |
| 3K295 —Standard "A-C-tron" A.C. Tubes..... | \$5.50 | \$3.50 |
| 3K296 —A-C-tron A.C. Rectifying Tube..... | 4.00 | 2.55 |
| 3K297 —A-C-tron A.C. 6 mu. Tube..... | 5.50 | 3.50 |
| 3K298 —A-C-tron A.C. 10 mu. Tube..... | 5.50 | 3.50 |
| 3K299 —A-C-tron A.C. 20 mu. Tube..... | 5.50 | 3.50 |

The Long Looked-For True A. C. Radio Set

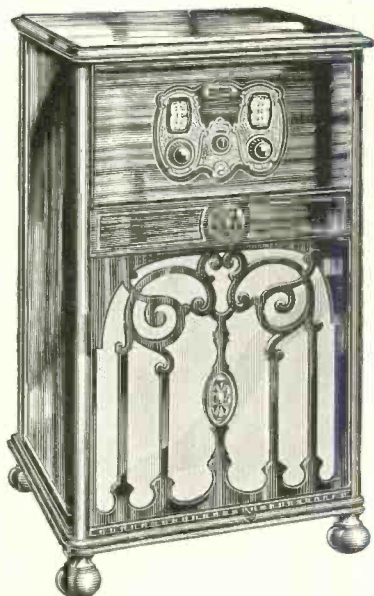
POWER-PLUS SET

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Everybody wants this set—the volume of a brass band, the clear tone of the finest violin and the sturdiness of a skyscraper.

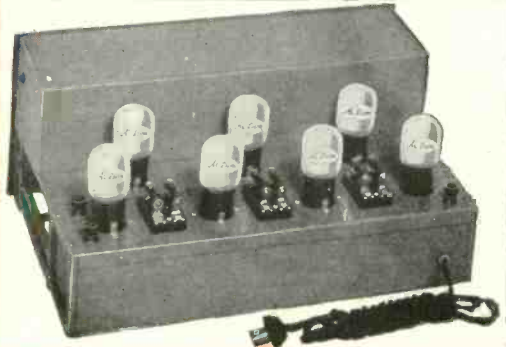
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The Power-Plus Seven makes radio reception 100 per cent entertaining—gone are the radio troubles of the past—now there is nothing to get out of order—no batteries to give out. The Power-Plus Seven comes completely equipped, including A-C-tron tubes, which are operated from 110-volt, 60-cycle A.C. current.



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- 1K5007**—Arm Chair Model, complete. List, **\$230.00**. Net, **\$135.24**



Power-Plus "Seven" Chassis

Completely equipped ready to attach to light socket for operation. Entirely enclosed and shielded. Chassis may be fitted easily into any console or cabinet listed on pages 44, 45 and 46.

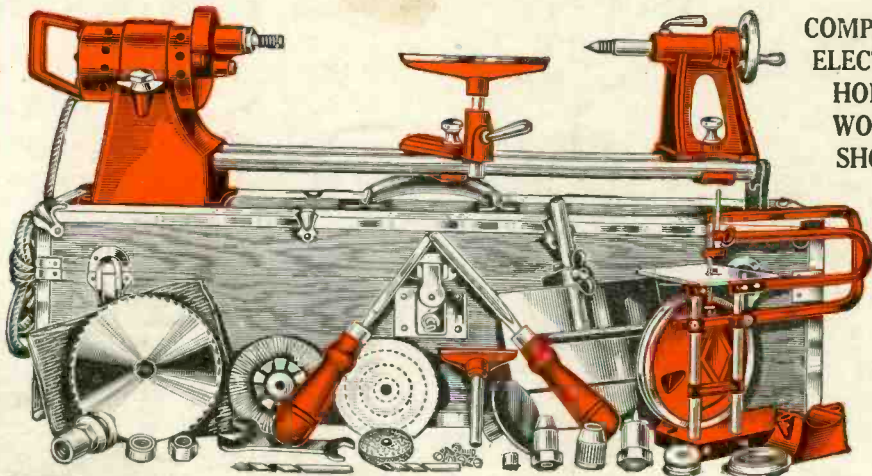
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Note—We challenge any manufacturer to equal the performance and tone of the Power-Plus regardless of number of tubes or price.

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