

NEW

# RADIO

*Buyer's  
Guide*



1927-28 Edition

*The Barawick Co.*

CHICAGO ILL

# A Barawik Triumph in Super Radio Values!

Is This Splendid Single Control Illuminated Dial 6 Tube Receiver at about the Price You Might Expect to Pay for the Fine Console Alone!

The Receiver That Conquers All Broadcast Reception Conditions, Country Wide Range

Tremendous Volume

Sweet, Clear Tone Quality

Easiest Tuning Ever Known

Perfectly Balanced Circuit—No Howls or Squeals



**MARVELO**  
Single Control  
Illuminated Dial  
Completely Shielded **6**

Retail Value  
**\$110**

Your Net  
**\$46**

With Inbuilt Speaker

Manufactured under patents license grants from Radio Corporation of America, Westinghouse Electric and Manufacturing Company, General Electric Company, and American Telephone and Telegraph Company.

Gets All The Air Has to Offer Always

The Sensation of The Entire Radio Industry

The Console is made of selected American walnut, dull rubbed, natural brown finish. It stands 40 in. high, 27 in. wide, and 14 in. deep. The set is fitted in a slide-out tray for easy access at all times. Lower section has special cone speaker of an advanced design, especially made for this receiver. It is a

wonder for its fine reproduction and tremendous volume. The lower compartment measures 12x23x10 inches and provides space for all power units or batteries, making this fine set completely self-contained.

The Receiver is the great Marvelo Single Control 6, as described in detail on pages 4 and 5.

## Wholesale Price List

**1B13135**—Set Complete, without accessories, but with in-built loudspeaker. Shipping wt., 70 lbs. List, \$95.00. **\$46.00**  
Your Net Cost.....

### For Battery Operation

**1B13136**—Set Complete, with all accessories for battery operation, including four 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amp. "A" Storage Battery, two 4½ V. "C" batteries, three large 45 V. "B" batteries and complete Antenna and Ground outfits. Shipping wt., 175 lbs. **\$72.25**  
List, \$145.00. Net Wholesale.....

### For Socket Power Operation

**1B13137**—Set Complete, for Socket Power Operation, including four 201A type, one 200A type and 112 type power tubes, Abox "A" Eliminator, Barawik Supreme "B" Eliminator, two 4½ V. "C" batteries and necessary Antenna and Ground outfits. Shipping wt., 140 lbs. List, \$175.00. **\$89.95**  
Net Wholesale.....

# Lowest Wholesale Prices

Prices quoted in this catalog are confidential Lowest Wholesale Prices. Please do not divulge these prices to anyone outside of the Radio Trade. The NET PRICES shown have all discounts deducted—there are no further discounts. The List Prices shown are the generally accepted Retail Prices and are for your guidance in reselling. Should the market prices on any items decline, our prices will be reduced proportionately. Likewise, we reserve the right to raise prices, should market conditions force us to do so.

## Sell Marvelo Sets—10 Days Free Test

So sure are we of the excellent quality, fine performance and unequalled value of our MARVELO sets that we offer you the privilege of testing sample sets on a 10 days' free test basis. You order in the regular way, sending your remittance—or we will ship C. O. D.—as you choose. Test the MARVELO against any set you desire and prove to your own satisfaction that it is the radio set you want to handle. If for any reason you feel you can do better with some other make of set, return the sample set prepaid and we will refund the full purchase price. All we ask is that you be fair with the set and with us in making your trial test.

You take no risk. We must have superlative sets to stand this guarantee. Marvelo sets are just that. Many thousands of satisfied users throughout the world testify to their fine quality of reproduction, distance-getting and volume.

### Fast Shipment

We have in stock ready for immediate shipment, one of the largest assortments of Radio Merchandise in the world. We believe we have the largest force of trained employees of any radio house in the country handling your radio orders. Experts for every detail. We aim to give same day shipments. We believe that past records prove that on the average we are the fastest shipping house in this business. And now, better than ever before, we are prepared to give you service. Send in your orders. We will rush the goods to you.

### Quality Above All

Our lines are selected carefully from the chosen products of America's foremost manufacturers. We aim to eliminate any items that do not perform properly—even though they may be highly advertised.

### Our Guarantee Protects You

We guarantee every piece of Radio apparatus we sell to operate in the manner intended for such apparatus. Examine the goods we ship you; any article which does not meet our guarantee, if returned at once, will be exchanged for perfect merchandise. We are able to make this guarantee because we handle only the best grade of carefully tested merchandise.

### Send No Money

If you prefer we will make shipments C. O. D. However, most of our customers send their remittance with order and in this way avoid extra collection costs. We request that new customers in distant points, ordering heavy merchandise, accompany their order with a reasonable deposit.

### Our Terms

We carry no open accounts. Our terms are cash with order or C. O. D.—as you choose. We sell to thousands of well rated firms on this basis—firms who save money buying by this money-saving method. We offer you values not equalled elsewhere.

### Make Big Profits

You can make big profits selling Marvelo sets. No big stocks needed. Just order a sample or two for demonstrators. Deliver them to your customers as sold. Order additional sets as required. We will rush them to you so that you will always have sets on hand to sell—yet your investment will be very small. Many dealers average better than \$100.00 per week in profits following this plan.

## We Pay Freight on Orders Over \$50.00

In all states except these few distant ones: New Mexico, Colorado, Wyoming, Montana, Arizona, Utah, Idaho, Oregon, California, Florida, Washington, Maryland, and New England States. If your shipment is ordered by freight, send us your paid freight bill with the order number you will find on the label on the outside of your shipment and we will allow it.

Orders shipped by express or parcel post go forward and are delivered to you much more quickly than freight. We will allow you what ordinarily would be the freight rate on all orders of \$50.00 or more which are shipped by express or parcel post.

### EXCEPTIONS TO THIS OFFER

This offer does not include orders of "A" batteries, "B" batteries, insulators, cabinets only, console cabinets only or radio furniture when ordered by itself, but does include all radio sets of any kind. Make up an order of \$50.00, get it in one shipment and save the amount of the freight charges. Whether you have your order shipped by freight or express you will always save the amount of the freight cost.

### Thousands of Barawik Radio Sets Prove Our Reliability

The Barawik Co. began selling radio apparatus before the present radio broadcasting was known. We are one of the very few old established companies in the radio business. You can depend on getting real values and prompt service with fair dealing when you buy from us.

*The Barawik Co.*

ONE OF AMERICA'S OLDEST RADIO INSTITUTIONS  
COPYRIGHT 1927 BY THE BARAWIK CO. ALL  
RIGHTS RESERVED.

ALL PRICES QUOTED ARE NET—THERE ARE NO FURTHER DISCOUNTS



# Radio's Most Powerful, Easiest Operated, Purest Toned, Most Dependable Receiver is Here At Last!

## The MARVELO 6 Single Control—Illuminated Dial Completely Shielded

**T**HE Barawik Company has truly pioneered in the building of radio receivers. For years we have been making and selling them all over the world. Each year we have earnestly tried to offer as fine radio sets as it was possible to build, at prices within reach of all. Step by step, as the industry and science of radio has advanced, we have kept pace. Thousands of dollars and years of time have been spent in the perfection of Barawik Receivers.

Now, in this new MARVELO Single Illuminated Dial Shielded G-Tube Receiver, we offer what we believe to be the peer of any radio set ever built. For rich tone quality, ease of control, stability and day to day reliability, we conscientiously believe that it has no superior.

### The Wonder of the 1927-'28 Season

Before placing it in production in our manufacturing laboratories, scores of these sets were placed in the hands of operators all over the country. Many of these testers had owned several other radio receivers, some very fine multiple tube sets. Yet, from each and every one of them came only words of glowing praise for this new MARVELO. "The ease with which station after station is picked up is amazing. The slightest turn of the dial brings in stations far and near, gliding softly into tune without the slightest hiss—positively the smoothest, sweetest tuning set I have ever had in my hands and I have had a great many. And, the tone quality! It is impossible to describe it. Clearly, purely, the strains of music pour out in such lifelike truthness that it is uncanny. Even musical critics who have heard me operating it have marveled and exclaimed at its superb reproduction. The volume! One is always impressed with the reserve power that is always evident. The slightest movement of the volume control

brings a rush of room-filling volume, even on distant stations, yet with the same purity and sweetness of tone. Never did I think that radio would reach such heights of perfection as you have found in this marvelous MARVELO G-tube receiver." So spoke one of those who tested this wonder set.

### The Work of Skilled Engineers

This receiver is not merely an assembly of parts. It represents the scientific efforts of men long experienced in the theory and practice of broadcast receiver construction. It is a **planned, designed** receiver, each part developed especially as a unit of the entire circuit and mechanical assembly. Our inspiration in its building was to produce a set that would perform with the most expensive makes, yet by careful planning, ingenuity and mass production could be built at a cost that would place it within the reach of the masses. In value, it is unmatched and we stake it against any other receiver on the market. Every penny put into it has produced results. Not a cent has been wasted on meaningless frills or "selling features" or "talking points." The result is that if the tester were blindfolded, he could not tell its reproduction from that of receivers costing several times its cost!

### Try it 10 Days at Our Risk

Space will not permit of description of the many points of superiority of the MARVELO G. So that you might prove to yourself that it is far ahead of any set yet offered, we give you the privilege of actually testing it for 10 days, an offer explained in detail on page 3 of this catalog. We know what your verdict will be! Make your selection now and find new thrills in broadcast reception!

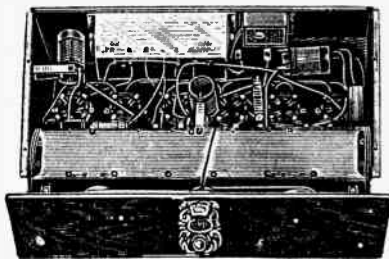


### The Table Cabinet Model

Manufactured under licensed patents of Radio Corporation of America, Westinghouse Electric and Manufacturing Co., General Electric Co., and American Telephone and Telegraph Co.



# A Stupendous Array of Special Features Make This One of America's Finest Radio Receivers



View of Chassis from Bottom

## Completely Shielded

All metal chassis, completely enclosing all parts, preventing tinkering and protecting the instruments from dirt and dust. Keeps out most microphonic noises, suppresses outside interference, produces razor-sharp selectivity. Each part securely anchored, assuring permanent alignment and perfect operation even after long shipping hauls.

## Illuminated Single Dial Control

Only one tuning knob. Dial is illuminated, making possible operation or set in the dark. Also acts as automatic signal to prevent leaving set turned on.

## Perfected Balanced Circuit

The result of years of experiment, test and experience by able radio engineers. One untuned, two tuned, radio frequency stages, one Detector, and two stages of oversize Audio amplification. Free from howls, squeals, it glides smoothly into station after station. Ease of control is a wonder to all who tune it!

## Instant Distance Control

A new device! By simple snap of this switch (the left one on panel front) the receiver is instantly changed from half-line selectivity to "broad" for tuning in distant stations with volume. Actually makes two sets in one, the one for congested districts, the other for points far removed from broadcasting stations.

## Oversize Audio Transformers

The beautiful tone quality of the Marvelo is a wonder to all who hear it. This is largely accomplished through giant, finest quality audio transformers. Selected Silicon steel cores are used. High inductance primaries with low ratio bring faithful reproduction, registering all the frequencies within reach of the human ear. As illustration shows, these transformers are encased in a special separate shielded case.

## Power Tube Operation

No alteration needed for installation of power tubes. All sockets are plainly marked so that anyone can place tubes without likelihood of any mistake. The 112 type amplifier is recommended in last audio stage.

## Shock-Proof Detector Socket

Detector socket is cushioned to prevent microphonic noises and insure perfect reception of signals. All sockets have wiping contacts, providing even flow of current and preventing tube noises.

## Special Space-Wound Coils

The new type, wound on threaded Bakelite tubes, each one exactly alike—absolutely electrically and inductively correct. Subjected to the most rigid tests. Generally considered by most radio engineers to be the ideal radio coil.

## Special Metal Panel

Richly designed and embossed with beautiful escutcheon design. Adam brown walnut finish which perfectly matches the wood of consoles and cabinets. Size of panel, 7x18 inches.

## Size of Chassis

Panel, 7x18 inches; upright; depth of chassis, 10 inches; overall width, 18 inches. Fits almost all standard cabinets and consoles.

## Don't Be Fooled by "Low" Prices

There are many sets now on the market of the same general design as the MARVELO Shielded G offered at lower prices. Do not be fooled! Unless the article be meritorious, there is no bargain in a low price. And, we know from years of experience, that no really fine quality radio receiver can be offered by anyone as low or lower than the prices here quoted. We know that you are willing to pay a fair price for quality and that is what you get in the MARVELO! Built at a minimum cost, distributed without expensive advertising and selling expenses, MARVELO sets come to you at the very lowest possible prices. When you compare, compare the QUALITY as well as the PRICE! MARVELO sets are unmatched in real value anywhere!

## Price List of the Cabinet Model

**1B13185**—Set with fine walnut finished Cabinet, but without accessories. **\$35.80**  
List, \$70.00. NET.....

### For Battery Operation

**1B13186**—Set Complete with all accessories for Battery Operation including four 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amm. "A" Storage Battery, two 4½ volt "C" batteries, three large 45 volt "B" batteries and complete Antenna and Ground outfits. **\$62.50**  
List, \$120.00. NET.....

### For Socket Power Operation

**1B13187**—Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, Barawik Special "A" Eliminator, Barawik Special "B" Eliminator, two 4½ volt "C" batteries and necessary Antenna and Ground outfits. List, \$152.00. NET..... **\$81.25**

**1B13188**—Set Complete for Straight Electric Operation with four 1X226, UX227 and one CV112 A. C. Tubes, Plate and filament current supply, necessary Ground and Antenna outfits; complete—all equipped to plug into light socket. **\$81.25**  
List, \$131.00. NET.....

### If You Desire a Special Cabinet or Console

For those who have a cabinet or console, or desire to select a special one from these shown on pages 114 to 125 of this book, we offer the Chassis of this fine receiver separately.

**1B13189**—MARVELO G Single Control Illuminated Dial Shielded Chassis only (see size in panel above). **\$29.40**  
List, \$60.00. NET.....

## Magnificent Table and Battery Cabinet for the Table Model

A most tasteful design that will fit in well with all types of furniture. Made of genuine walnut plywood, in a soft, rich rubbed finish. Genuine maple overlay, fluting and inlay effect give it a most striking appearance. Sliding shelf for cone or horn speaker. Outside dimensions: Width, 30 inches; depth, 15 inches; height, 30 inches. Battery compartment provides sufficient space for all batteries, chargers or power units. Shipping wt., 40 lbs.

**1B66575**—Table Only. **\$13.95**  
List, \$23.50. NET. EACH.....

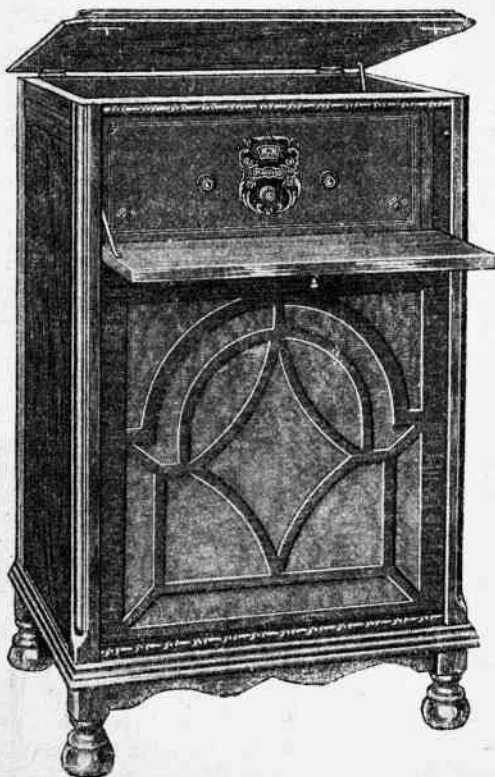
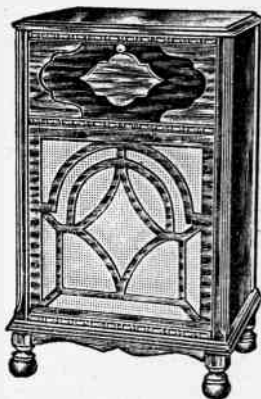


Speakers Shelf at Left End

See Barawik Special Cone Offer on Page 130

# A Masterpiece of Radio Efficiency and Console Beauty and a Sensational Value!

*Brings a new thrill to the fascinating enjoyment of radio! Range and power that places the entire country's stations within reach of the fancy of the operator. Unsurpassed ease of control and sharpness of tuning—gliding into station after station, quietly, surely, full tone quality never before dreamed of. Those who have heard it are astounded and enthralled at the life-like naturalness of reproduction. Beauty of line that places it in the class of the finest furniture, a fitting addition to the most luxuriously appointed home. The ultimate in radio—as fine as anyone might wish for, yet so reasonably priced that all may afford it!*



## MARVELO 6 Single Control Illuminated Dial Completely Shielded

### The Wonder Set of the Year!

This new Marvelo Six with one Control is truly the sensation of the season! It is already the talk of the country. See pages 4 and 5 for detailed description of its many features.

### Symphonic Type Console

Made of genuine walnut plywood, beautifully finished with high lighting and two tone effect. Drop leaf arm rest. Top raises for easy access to set. Equipped with long air column deep-toned horn. Ample power unit and battery space—open in rear. Stands 36 in. high, 23½ in. wide, 18 in. deep.

#### WHOLESALE PRICE LIST

**IB13071**—Set Complete, without accessories, but with inbuilt loudspeaker. List, \$120.00.  
**YOUR NET COST..... \$65.50**

#### For Battery Operation

**IB13072**—Set Complete with All Accessories for Battery Operation including four 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amp. "A" Storage Battery two 4½ v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground Outfits. List, \$170.00.  
**YOUR NET COST..... \$91.75**

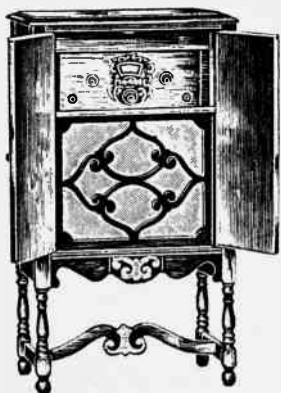
#### For Socket Power Operation

**IB13073**—Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, Abox "A" Eliminator, Barawik Supreme "B" Eliminator, two 4½ v. "C" batteries and necessary Antenna and Ground Outfits.  
List, \$200.00. **YOUR NET COST..... \$109.50**

**IB13074**—Set Complete for straight Electric Operation with four 226 type, one 227 type and one 112 type A. C. Tubes, necessary ground and antenna outfits; complete with all equipment ready to plug into light socket. List, \$180.00.  
**YOUR NET COST..... \$109.50**

**IB13075**—Marvelo Single Control Shielded Six, CHASSIS Only. List, \$60.00.  
**YOUR NET COST..... \$29.40**

# A Pioneer Builder of Radio Barawik Now Leads in Values



**This Magnificent Model Offered Far Below the Standard Market Price**

For those who want true beauty as well as unfailing efficiency in their radio receiver, this wonderful model is the answer. This strikingly designed Console harks back to the fifteenth and sixteenth centuries, when furniture craftsmen spent lifetimes of ardent labor over the making of high-boys for their royal clientele. The period's masters of the most lavishly fitted mansions pointed with pride to these rich and aristocratic looking pieces. Here in modern times we have these splendid designs perfectly adapted to radio use without the slightest sacrifice of their original beauty and charm. Truly a fitting setting for one of radio's finest sets—the Marvelo!

Bearing in mind the superior quality, compare Barawik prices! Search the world over and you cannot match them!

## Tudor High-Boy Console

An unusually high-grade and beautifully designed console radio cabinet with built-in long air column, deep-tone horn and Utah loud speaker unit. Has doors in front of speaker and radio set. Top raises. Both grille and back are removable, giving access to power unit or batteries from front or back. Made of genuine walnut plywood, figured maple overlays on posts, Herringbone mahogany overlays on doors. Beautiful stump acacia overlays on center of doors. Herringbone mahogany and curly maple scroll overlays on apron. Curly maple scroll overlay on stretcher, blended rich warm finish. Outside dimensions: 44 in. high, 26 1/2 in. wide, 16 1/4 in. deep.

# MARVELO 6

Illuminated Single Dial

Shielded Receiver

The Great Marvelo 6 Receiver

Turn to pages 4 and 5 for complete specifications of this sensational new radio receiver.

### WHOLESALE PRICE LIST

**1B13077**—Set Complete, without accessories, but with inbuilt loudspeaker. **List, \$145.00. YOUR NET COST..... \$72.50**

### For Battery Operation

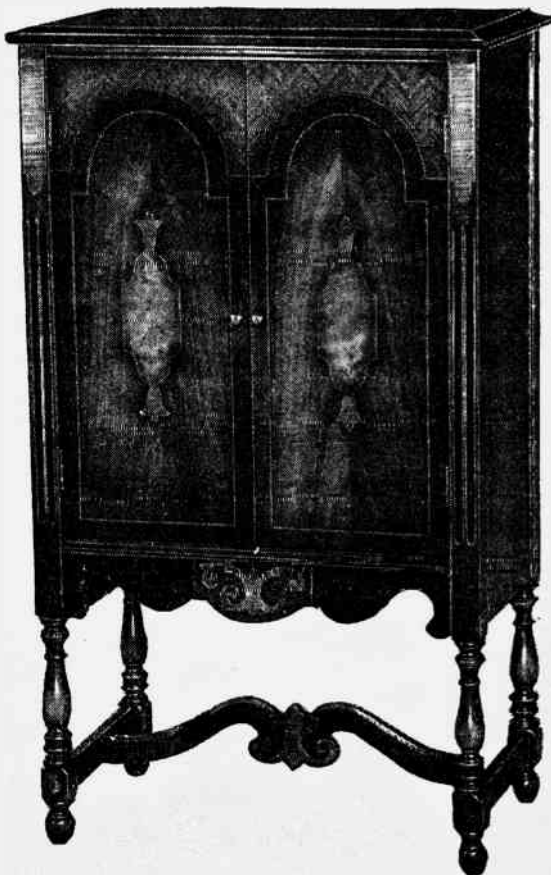
**1B1307B**—Set Complete with All Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amp. "A" Storage Battery, two 4 1/2 v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground Outfits. **List, \$195.00. YOUR NET COST..... \$98.75**

### For Socket Power Operation

**1B13079**—Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, Abax "A" Eliminator, Barawik Supreme "B" Eliminator, two 4 1/2 v. "C" batteries and necessary Antenna and Ground Outfits. **List, \$225.00. YOUR NET COST..... \$116.50**

**1B13080**—Set Complete for straight Electric Operation with four 326 type, one 327 type and one 112 type A. C. Tubes, necessary ground and antenna outfits; complete with all equipment ready to plug into light socket. **List, \$205.00. YOUR NET COST..... \$116.50**

**1B130B1**—Marvelo Single Control Shielded Six CHASSIS Only for Battery or socket power operation. **List, \$60.00. YOUR NET COST..... \$29.40**

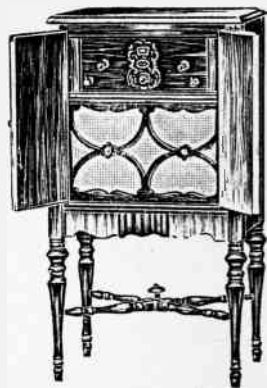


WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3



# A Proven Forward Step in Radio Construction is This Advanced Marvelo 6-Tube Receiver!

The result of years of persevering experiment test and development is this wonder receiver! It stands as the crowning achievement of a group of diligent, industrious radio engineers who through the years have sought the practical radio receiver for the great masses. No expense has been spared to make this as fine a radio set as could be built. Its range, reserve power, tonal quality, mechanical construction reflect the results of the high aim and skill of its builders. It contains all the newest, proven refinements in radio building, yet it comes to the user at a price well below the market standards. Mass production, ingenious systems and economical distribution save the waste of ordinary methods.



## MARVELO 6

Illuminated Dial  
Single Control  
Completely Shielded

### The Hi-Boy Console

Due credit must be awarded the progressive furniture makers who have so deftly adapted the charming old period styles to modern radio uses. Here is an outstanding example of their ingenuity in this quarter. It would be difficult to imagine a more pleasing, richer, more tasteful console than this beautiful model. The work of skilled craftsmen. The wood used is choice American walnut with stump walnut front. Figured maple overlays on posts and stump acacia center overlays. Zebra overlays on corners give that dash of color now so much favored. Special treatment finish in Adam brown. Top raisers for easy access to receiver. Behind the artistic grille is deep-toned, long air column horn with genuine Utah unit. Power unit space behind and around speaker. Outside dimensions: 45 in. high, 23 1/2 in. wide, 19 1/4 in. deep.

#### WHOLESALE PRICE LIST

1B13100—Set Complete, without accessories, but with inbuilt loudspeaker. List, \$150.00.  
NET WHOLESALE ..... **\$79.50**

#### For Battery Operation

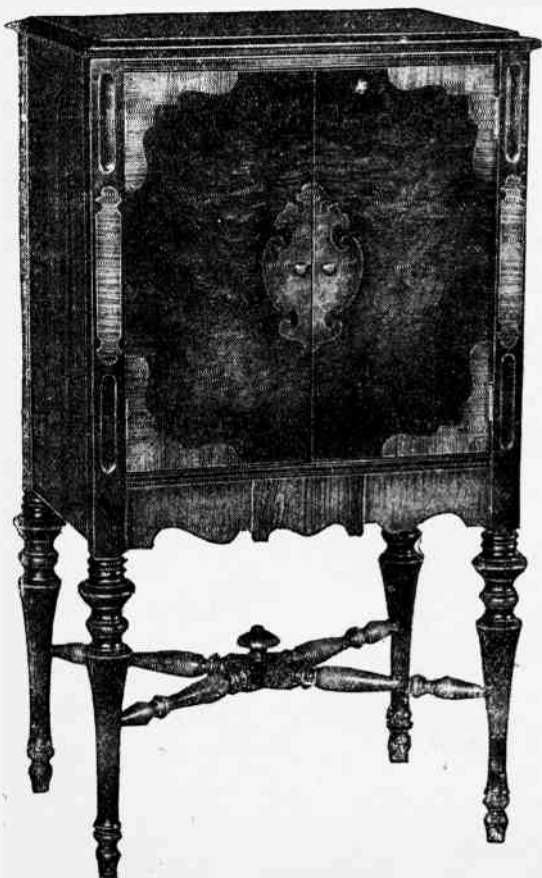
1B13101—Set Complete with All Accessories for Battery Operation including four 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amp. "A" Storage Battery, two 4 1/2 v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground Outfits.  
List, \$200.00. NET WHOLESALE..... **\$105.75**

#### For Socket Power Operation

1B13102—Set Complete for Socket Power Operation including four 201A type, one 200A type and one 112 type power tubes, Abox "A" Eliminator, Barawik Master "B" Eliminator, two 4 1/2 v. "C" batteries and necessary Antenna and Ground Outfits. List, \$230.00.  
NET WHOLESALE ..... **\$123.50**

1B13103—Set Complete for Straight Electric Operation with four 226 type, one 227 type and one 112 type A. C. Tubes, necessary ground and antenna outfits; complete with all equipment ready to plug into light socket.  
List, \$210.00. NET WHOLESALE..... **\$123.50**

1B13104—Marvelo Single Control Shielded Six CHASSIS Only, for battery or socket power operation. List, \$60.00.  
NET WHOLESALE ..... **\$29.40**



# MARVELO 6

## SINGLE CONTROL

**Illuminated Dial  
Completely Shielded**

### Classic Console Model

The kind of radio receiver that would appear a good bargain at twice Barawik's special price! It provides all those refinements that place it in the first rank of quality sets. For range, power and tonal quality, it has few equals.

### The Period Style Console

Rarely beautiful is this entirely closed cabinet console in the popular orthophonic style with large inbuilt long air column, deep toned speaker. This huge speaker has the Utah unit and is a marvel in its rich, full rounded, powerful reproduction. Together with the splendid audio system of the set itself it brings the ultimate in radio enjoyment of broadcast reception. Made of choice American walnut plywood with stripe mahogany overlays in front. Ebony finished molding effect on the two front doors. Rubbed antique finish. Artistic grille lifts out for access to the large size battery and power unit section. Top raises to reach set easily. Stands 41 1/2 in. high, 24 1/2 in. wide, 18 in. deep.

A full description of the Marvelous Marvelo 6 Receiver appears on pages 4 and 5.

**1B13106**—Set Complete, without accessories, but with inbuilt loudspeaker. List, \$130.00. **\$65.95**  
NET WHOLESALE.....

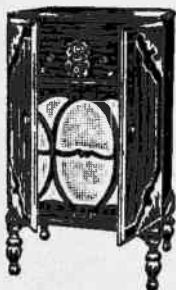
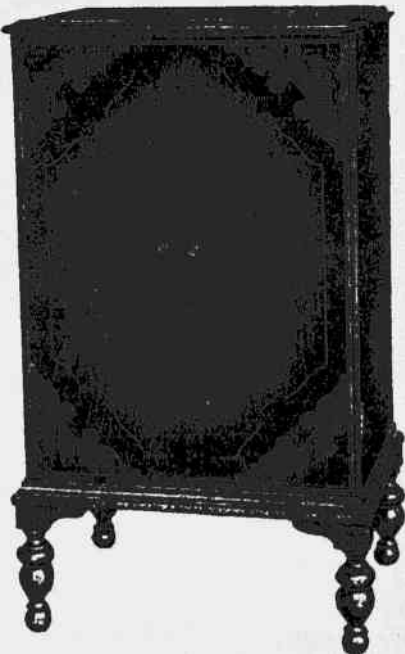
#### For Battery Operation

**1B13107**—Set Complete with All Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amp. "A" Storage Battery, two 4 1/2 v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground Outfits. List, \$180.00. **\$92.20**  
NET WHOLESALE.....

#### For Socket Power Operation

**1B13108**—Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, Abox "A" Eliminator, Barawik Master "B" Eliminator, two 4 1/2 v. "C" batteries and necessary Antenna and Ground outfits. List, \$210.00. **\$109.95**  
NET WHOLESALE.....

**1B13109**—Marvelo Single Control Shielded Six CHASSIS Only for Battery or socket power operation. List, \$60.00. **\$29.40**  
NET WHOLESALE.....



**1B13111**—Set, Complete, without accessories, but with inbuilt loudspeaker. List, \$120.00. **\$56.40**  
NET WHOLESALE.....

#### For Battery Operation

**1B13112**—Set, Complete with All Accessories for Battery Operation including four 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amp. "A" Storage Battery, two 4 1/2 v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground Outfits. List, \$170.00. **\$82.65**  
NET WHOLESALE.....

#### For Socket Power Operation

**1B13113**—Set, Complete, for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, Abox "A" Eliminator, Barawik Master "B" Eliminator, two 4 1/2 v. "C" batteries and necessary Antenna and Ground outfits. List, \$200.00. **\$99.75**  
NET WHOLESALE.....

# MARVELO

## Single Control 6

**Illuminated Dial  
Completely Shielded**

### Spinet Desk Model

As fine and beautiful a radio set as anyone might reasonably wish for is this pretty Spinet Desk Model. A most pleasing design in rich Adam brown rubbed, polished and high lighted walnut. The best of cabinet workmanship distinguishes it as a fine piece of furniture. Stands 36 in. high, 40 in. wide, 16 in. deep. It has an excellent horn type inbuilt speaker which gives roomful volume, with beautifully faithful and lifelike reproduction. All are amazed who hear it.

#### The Remarkable Receiver

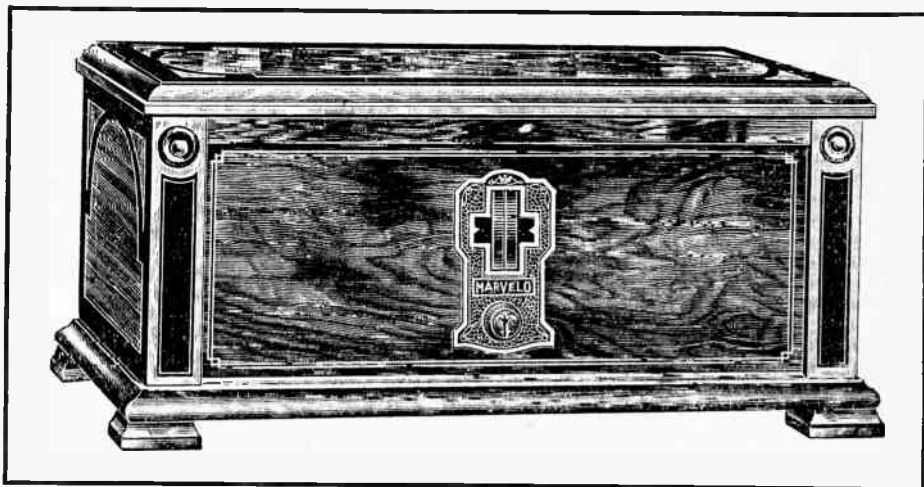
Perfectly housed in the center section is the great Marvelo Single Control 6, a complete description of which appears on pages 4 and 5.

**WE PAY FREIGHT  
SEE PAGE 3**

**WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3**

# MARVELO 7 TUBE DRUM CONTROL RECEIVER

## BARAWIK'S NEWEST CREATION



### Adjacent Drums—the Newest Idea in Tuning Control

These are the days of great power and speed. Huge locomotives have replaced yesterday's puffing, struggling engines. The motor highways swarm with fast, powerful, multiple cylindered cars.

Now in the field of radio we have this same spirit satisfied in this great 7 tube broadcast receiver. Four stages of highly efficient tuned radio frequency amplification precede the detector. This brings a degree of sensitivity rarely attained even in the most costly receivers. The faintest far away signals are readily picked up and stepped up through these first four tubes—amplified to great strength before delivery to the detector.

Thus you have a receiver of vastly greater power, one that will reach out long distances and with sufficient reserve to break through local interference in congested broadcast areas. In sharpness of tuning, ease of separation of stations and generally smooth operation, this wonderful receiver is a sensational revolutionary revelation to the average operator. It brings to the radio owner the same thrill, feeling of pride and confidence to conquer all conditions, as the driver of the highly perfected balloon-tired, powerful motor car on the highway.

### The Simplicity of Tuning

There are two knurled discs, directly adjacent, reaching through the escutcheon on the front panel. These may be turned with one finger either separately or in unison. Thus, a single or dual control is afforded as the operator might wish. The single knob below the drum control, regulates the volume and also operates the switch for turning on and off the set.

### Truly a Power Receiver

This wonder circuit has been especially developed to take full advantage of the new highly perfected power tubes. Tremendous volume, with the most liquid, sweet tonal reproduction characterizes the output of this marvelous receiver. Giant audio transformers pass and amplify all audible frequencies with true fidelity and extreme mellowness. There is no hint of metallic coloring in even the highest tones. Critics of music pronounce it a masterpiece in tone qualities.

### A Perfectly Balanced Circuit

No trick devices or complicated parts are employed in obtaining the accurate balance of this marvelous circuit. Precision made units, spaced to the fraction of an inch to prevent capacitative coupling, with an all metal chassis, bring a smoothness and stability that is a marvel even to experts. Rugged mechanical construction assures permanent alignment and security of all parts so that in shipping and moving about no harm is done. This is a feature in a radio receiver you should demand. The Marvelo 7 will give a lifetime of perfect service.



## The Precision Made Coils

The heart of the set. They are of the proven Solenoid type, space wound, while more expensive to build than ordinary coils, perfect performance and stability can be obtained in no other way. The U. S. Bureau of Standards has pronounced this the ideal radio coil.

## S. L. F. Condensers

We pay an extra premium for the laboratory type, straight line frequency, variable condensers used to tune this receiver. Skilled radio engineers with the use of the most delicately adjusted instruments group these condensers into perfectly matched sets of four. Each side of the drum rotates two of these condensers which are specially gauged in groups of two as shown in the small illustration.

## Improved Audio System

Giant oversize audio transformers with finest quality Silicon steel cores are used. High inductance primaries with low ratio bring out the tones with absolute truthness. All frequencies within reach of the human ear are perfectly registered. From a whisper to the roar of a great band, the output is soft, mellow, true. And especially are the low notes brought out in true resonance, neither over emphasized nor submerged—but faithfully correct.

## All Metal Chassis

All steel chassis with metal insulated panel forms a rugged mounting for all units. Protects the delicate instruments from the hard knock of shipping and moving. It also acts as an effective shield, suppressing out-ging. It also acts as an effective shield, suppressing out-ging. It also acts as an effective shield, suppressing out-ging. It also acts as an effective shield, suppressing out-ging. It also acts as an effective shield, suppressing out-ging.

## Shock-Proof Detector Socket

The detector socket is ingeniously cushioned to insure perfect, unhampered detection of signals. As do the other six sockets, it has positive wiping contacts, firm and strong. Each socket is rigidly tested before assembly.

## Scientifically Built and Tested

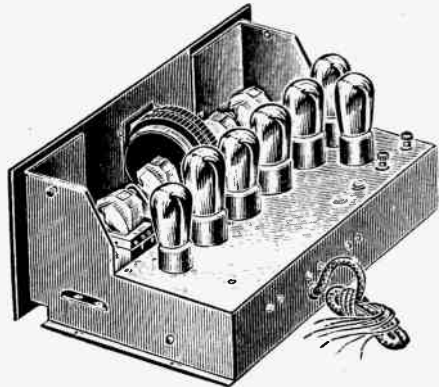
Each step of assembly in the making of this fine set is under the constant supervision of trained radio experts. Only highly skilled hands touch the careful painstaking assembly. Though produced in mass quantities, each and every receiver is exactly alike—precision built like a good watch. After assembly, all individual parts are again rigidly tested. Then the entire receiver is placed in operation and undergoes the most careful adjustment. Tone quality, sensitivity and selectivity is each thoroughly tested on the air and no receiver is passed unless it reaches the high standards of Marvelo performance.

## Unsurpassed in Value

Compare this fine receiver with any other of similar design and quality. Compare its ruggedness, its splendid mechanical construction, its precision made units and perfect assembly. You will find that nowhere can you match it for anywhere near the special Barawik price. Efficient manufacturing methods, huge volume and economical distribution methods make this extraordinary price possible.

## 10 Days' Free Test

You need not take our word for the quality and performance of the Marvelo 7. We want you to see and know for yourself. We therefore sell this receiver strictly on its merits through our 10 day free test privilege as explained on page 3.



Rear view of chassis, plainly showing with what care and skill is the assembly of units.

### WHOLESALE PRICE LIST

**1B13151**—Set with cabinet, but without accessories. **\$33<sup>95</sup>**  
List, \$67.50. NET.....

### For Battery Operation

**1B13152**—Set Complete with all accessories for Battery Operation including five 201A type, one 200A type and one 112A type power tubes, one Barawik 120-amp. "A" Storage Battery, two 4 1/2 volt "C" batteries, three large 45 volt "B" batteries and complete Antenna and Ground outfits. **\$59<sup>25</sup>**  
List, \$110.95. NET.....

### For Socket Power Operation

**1B13153**—Set Complete for Socket Power Operation. Including five 201A type, one 200A type and one 112A type power tubes. Abox "A" Eliminator, Barawik Supreme "B" Eliminator, two 4 1/2 volt "C" batteries and necessary Antenna and Ground outfits. **\$79<sup>75</sup>**  
List, \$151.70. NET.....  
**1B13154**—Marvelo Drum Control Seven CHASSIS Only. **\$28<sup>95</sup>**  
List, \$67.50. NET.....

### BATTERY TABLE

The fine walnut table illustrated forms a perfect setting for the table model. Genuine walnut with maple overlay richly finished. Width, 30 in.; depth, 15 in.; height, 30 in.; sliding shelf for speaker. Ample power unit space in back.

**1B13148**—List, \$23.50. **\$13<sup>85</sup>**  
YOUR PRICE.....



WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

# Most Sensational Value in Fine Quality Console 7-Tube Drum Control Receiver

**Masterpiece of Beauty and Efficiency**

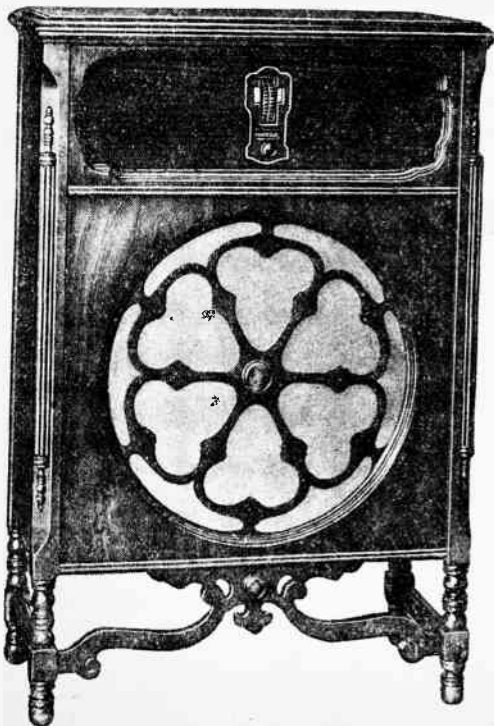
Here is a typical Barawik Triumph in supreme radio value! It is an offer that stops all competition and gives our customers the opportunity to enjoy the finest in radio with but a modest outlay.

This beautiful cabinet is extremely popular because of the very refined and pleasing appearance it presents. A striking feature is the round grille filling the entire lower compartment, placed in an offset effect. Cutaway posts with flutes ending in a charming carved pilaster effect. An air of solidity and strength is given by the specially arched design of the lower cross stretcher across the front. Cabinet is substantially made by cabinet-makers of national renown and beautifully finished in

the soft natural walnut color, rubbed to a velvety smoothness.

All panels are veneered with choice select walnut stock. The outside dimensions are: Height, 44 inches; width, 30 inches; depth, 15 inches. The large compartment at the bottom measures 22 inches high, 28 inches wide, 12 $\frac{3}{4}$  inches deep, providing ample space for the speaker, as well as all necessary batteries and power units.

Directly behind the handsome grille is installed the world renowned Utah Cone Speaker. This is unquestionably one of the finest cone speakers ever made and forms an ideal reproducer for the great Marvelo 7. It was specially chosen for its perfect harmonization with the audio output of the receiver itself.



## MARVELO 7 DRUM CONTROL

Refer to pages 10 and 11 for the details of construction that make this the sensation in the radio industry.

### 10 DAYS FREE TEST

See and hear this great receiver without obligation or risk. Turn to page 3 for complete explanation of this most liberal offer.

### PRICE LIST

1B13156—Complete, but without accessories.  
Shipping weight, 100 lbs.  
List. \$130.00. **\$63<sup>00</sup>**  
NET .....

#### For Battery Operation

1B13157—Set Complete, less Speaker, but with all accessories for Battery Operation, including five 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amp. "A" Storage Battery, four large 45 v. "B" Batteries, 9 volts "C" Batteries and complete Antenna and Ground Outfits. Shipping weight, 210 lbs. **\$89<sup>50</sup>**  
List. \$172.00. NET.....

#### For Socket Power Operation

1B13158—Set Complete for Socket Power Operation, including five 201A type, one 200A type and one 112 type power tubes, Barawik Supreme "B" Eliminator, Abox "A" Eliminator, 9 volts "C" Batteries and necessary Ground and Antenna outfits. Shipping weight, 100 lbs. **\$109<sup>25</sup>**  
List. \$212.00. NET.....

# Beautiful Spanish Design High-Boy Type Console

## Here Forms Ideal Setting For This Wonder 7-Tube Receiver

Reflecting the influence of the Spanish on present day designing, this beautiful cabinet is an outstanding example of how cleverly the richness and charm of these old designs has been retained in fitting them to modern radio uses. It takes its general contour from the old Spanish High-Boys and retains many of the motives which distinguish those great old heirlooms handed down from that romantic period. And, although very moderate in cost, it is befitting to the most elegantly appointed home. In its construction has gone the skilled craftsmanship of superior artisans, who have fashioned it from finest American walnut veneers with choice matched grain burl walnut front. The doors and battery compartment have polychrome over-

lays. Decorative antique hardware adds to the tasteful appearance. The base is distinguished by perfectly turned legs and a graceful brace construction. Behind the charming grille at the top is a long tone travel horn of scientific design and perfect reproductive characteristics. This horn is fitted with concert type unit affording the best possible results in both quality and volume. The battery compartment is 11 inches high, 21 inches wide and 12 inches deep. The console measures over all 48 inches high, 25 inches wide and 15 inches deep.

It would be difficult to imagine a more striking, pleasing housing for this advanced radio receiver than this splendid console. It will grace the most luxuriously furnished home.

## MARVELO 7 Drum Control

Try it 10 Days at Our  
Risk—See Page 3

In volume, selectivity, range, power, ease of control, this amazing set satisfies the most particular operator. To prove it, we freely give you the privilege of testing it for 10 days before deciding to keep it. See page 3 for details of this extraordinary offer.

On Pages 10 and 11 is Complete Description of the Marvelo Drum Control 7 Tube Chassis

### Wholesale Price List

1B13161—Complete with inbuilt speaker, but without accessories. Shipping weight, 105 lbs. **\$78<sup>50</sup>**  
List, \$155.00. NET.....

### For Battery Operation

1B13162—Set Complete with all Accessories for Battery Operation, including five 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amp. "A" Storage Battery, three large 45 v. "B" Batteries, 9 v. "C" Batteries and necessary Antenna and Ground outfits. Shipping weight, 205 lbs. **\$105<sup>00</sup>**  
List, \$197.00. NET.....

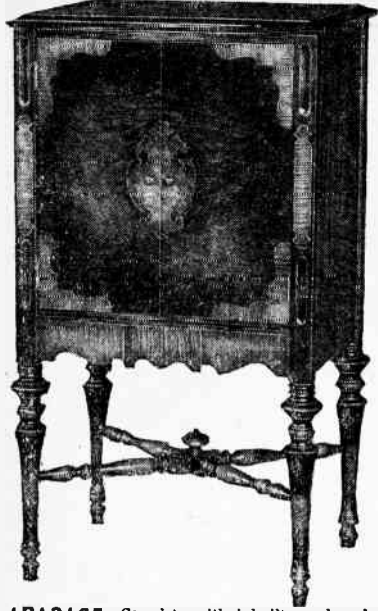
### For Socket Power Operation

1B13163—Set Complete for Socket Power Operation, including five 201A type, one 200A type and one 112 type power tubes, one ABOX "A" Eliminator, Barawik Master "B" Eliminator, 9 volts "C" Batteries, necessary Antenna and Ground outfits. Shipping weight, 195 lbs. **\$124<sup>75</sup>**  
List, \$237.00. NET .....



WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3





# The Great MARVELO 7

## Drum Control

### In De Luxe Console Model

Illustration and description can give but little impression of the rich design and finished artistry of this magnificent console. It is made from genuine American Walnut plywood with beautiful stump walnut front, figured maple overlays on posts and stump acacia center overlays. The apron is also tastefully overlaid in "Zebra" veneer effect. Special treatment soft brown finish. Stands 45 in. high, 25 1/2 in. wide, 19 3/4 in. deep. Top raises. Fitted with long air column deep-toned speaker with genuine Utah unit. The most satisfying reproduction is assured.

### America's Finest Receiver

A real power set with 7 tubes. Four tuned radio frequency amplification stages bring a degree of sensitivity, range, selectivity, that is a revelation. See and hear it at our risk. (See page 3 for 10 days' Free Test Offer.) Complete constructional details of this fine set appear on pages 10 and 11.



### Wholesale Price List

**IB13165**—Complete with inbuilt speaker, but without accessories. Shipping weight, 105 lbs. List, \$147.50. NET..... **\$75.00**

#### For Battery Operation

**IB13166**—Set Complete with all Accessories for Battery Operation, including five 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amp. "A" Storage Battery, three large 45 v. "B" Batteries, 9 volts "C" Batteries and necessary Antenna and Ground outfits. Shipping weight, 205 lbs. List, \$189.50. Net..... **\$101.30**

#### For Socket Power Operation

**IB13167**—Set Complete for Socket Power Operation, including five 201A type, one 200A type and one 112 type power tubes, one Abox "A" Eliminator, Barawik Supreme "B" Eliminator, 15 volts "C" Batteries, necessary Antenna and Ground outfits. Shipping weight, 195 lbs. List, \$229.50. NET..... **\$121.25**

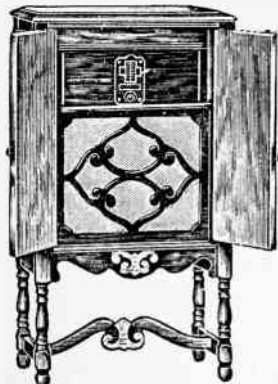
### Magnificent Tudor Console Model

# MARVELO 7

## Drum Control

Contains most advanced engineering ideas and refinements in radio receiver construction—the sensation of 1927-28 season.

Taking its design from the Tudor period, this magnificent console is a favorite with lovers of fine furniture. Rich, aristocratic, tasteful in line and decoration it will grace the most luxuriously furnished home. Built by skilled craftsmen from selected walnut plywood with figured maple overlays on posts. Herringbone mahogany overlays on doors. Beautiful stump acacia overlays on center of doors. Scrolls overlays on apron. Blended rich warm brown finish. Both grille and back are removable. Top raises. Inbuilt is a long air column, deep, mellow toned speaker with genuine Utah unit. It is unsurpassed for true, volume reproduction. Stands 44 in. high, 26 3/4 in. wide, 16 3/4 in. deep.



Contains most advanced engineering ideas and refinements in radio receiver construction—the sensation of 1927-28 season.



### Try it 10 Days—See Page 3

On Page 3 is explanation of this liberal offer. On pages 10 and 11 you will find complete description of the receiver.

### Wholesale Price List

**IB13171**—Complete with inbuilt speaker, but without accessories. List, \$137.50. NET..... **\$69.00**

#### For Battery Operation

**IB13172**—Set Complete with all Accessories for Battery Operation, including five 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amp. "A" Storage Battery, three large 45 v. "B" Batteries, 9 volts "C" Batteries and necessary Antenna and Ground outfits. Shipping weight, 235 lbs. List, \$179.50. NET..... **\$95.50**

#### For Socket Power Operation

**IB13173**—Set Complete for Socket Power Operation, including five 201A type, one 200A type and one 112 type power tubes, one Abox "A" Eliminator, Barawik Supreme "B" Eliminator, 9 volts "C" Batteries, necessary Antenna and Ground outfits. Shipping weight, 225 lbs. List, \$219.50. Net..... **\$115.25**

# No One Could Wish for a Finer Radio Receiver

## Than the MARVELO Drum Control 7 in this Luxurious Renaissance Period Style Console

This magnificent cabinet creates an impression of rare grace and symmetry of line, together with a striking massiveness. It is constructed of American walnut, richly veneered with perfectly matched butt walnut front and striking Burl walnut overlays. The Speaker Compartment Grille is made in a richly carved effect, reminiscent of the days of the old artist carvers. The finish is the new hand-rubbed lacquer, soft and velvety-like. The sturdy base is distinguished by the most careful, skillful turnings and forms a substantial underpinning that gives an appearance of

strength and pleasing proportion. It is fitted with a long air column horn with a metal throat, and a special unit chosen for the acoustic properties of this console. The dimensions over all are: Height, 51 in.; width, 27 in.; depth, 16 in. The large battery compartment measures 22 1/2 x 10 x 14 inches.

### A Radio Triumph

Piercing the air from coast to coast, the Marvelo 7 places at the whim of the operator his favorite stations far or near. Sensitive, selective, powerful, it marks a new step forward in radio perfection. Rugged and sturdy, it stands rough handling in shipping and moving—as stable and reliable as any receiver ever built. See pages 10 and 11 for details of construction.

#### Wholesale Price List

1B13175—Set Complete, without accessories, but with built-in loud-speaker. List, \$150.00.  
**NET WHOLESALE..... \$85.00**

#### For Battery Operation

1B13176—Set Complete, with All Accessories for Battery Operation, including five 201A type, one 200A type and one 112 type power tubes, one Harwick 120-amp. "A" Storage Battery, two 4 1/2 v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground Outfits. List, \$192.00.  
**NET WHOLESALE..... \$111.50**

#### For Socket Power Operation

1B13177—Set Complete, for Socket Power Operation, including five 201A type, one 200A type and one 112 type power tubes, Abox "A" Eliminator, Harwick Master "B" Eliminator, two 4 1/2 v. "C" batteries and necessary Antenna and Ground outfits. List, \$232.00.  
**NET WHOLESALE..... \$131.25**

## MARVELO 7 Drum Control



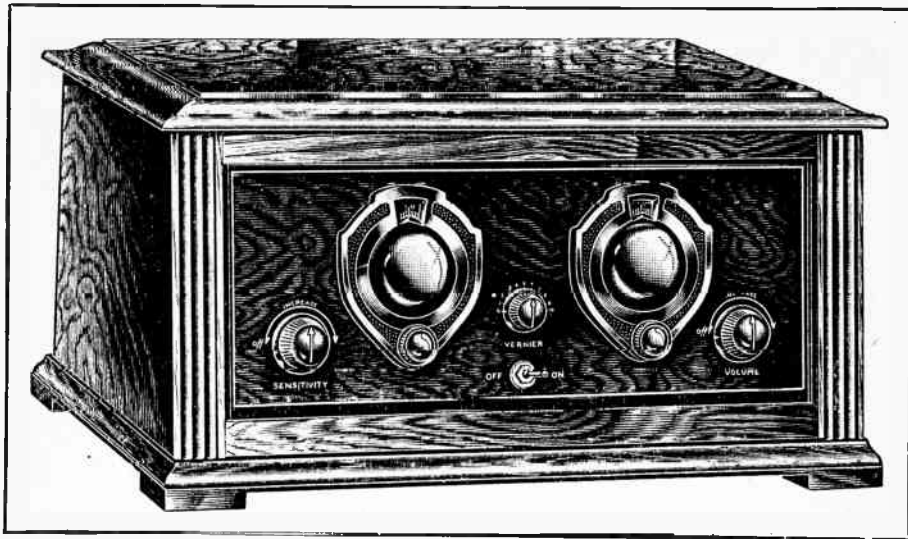
Beauty and Efficiency Brought to the Highest Point of Development in Radio



Will Grace the Finest Home — The Greatest Value Ever Offered

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3





# The New Marvelo <sup>Twin</sup> Dial 6

## The Most Sensitive, Sharpest Tuning, Radio Receiver Ever Developed

Those who have followed radio development know that the Two Dial Receiver is favored by many of the makers of America's finest sets. There is a basic reason for this in a six tube receiver. There are two distinct circuits in the signal reception—the antenna and the radio frequency. One of the condensers operated by the left-hand dial tunes the antenna, the other two stages of radio frequency. This arrangement makes for the greatest efficiency in picking up and strongly amplifying the incoming signal before passage to the detector. The result is, you have a set of great power and range. The reports from this wonder receiver are truly sensational. One operator logged forty stations in an evening. Many report reception from the Eastern seaboard to California.

### An Easy Set to Tune

So precisely balanced is this highly developed circuit that there is almost perfect synchronization between the two dials. Stations may be selected with the greatest ease, merely by setting the dials to the wave length of the desired station. Many operators become skilled in exactly turning the dials in unison with the two hands. The razor-edge selectivity, cutting from station to station on a degree or so, is a marvel to all who use this wonder set.

### Beautiful Tone Quality

For months one of these splendid receivers has been in operation in our service store here in Chicago. It has always been the center of an admiring group when receiving broadcast programs. Capable of enormous volume, yet its purity, faithfulness and smoothness of tone is a delight to hear. Huge low ratio transformers developed by an acoustical-electrical expert provide a quality of reproduction that is well nigh beyond belief. Clear, distinct, defined. All tones and overtones are reproduced with minute fidelity. One might well imagine the broadcaster within his very presence.

### Tremendous Volume

Transformer coupled audio amplification is used. No ordinary audio transformers are these—they have been especially designed and built for this wonder cir-

cut and represent the efforts of a recognized builder of the finest instruments. They incorporate the most advanced, perfected features of quality transformer construction and provide tremendous volume without the slightest hint of distortion.

### An Unsurpassed Value

Precision made to the highest standards of manufacture, you might expect to pay double the special Barawik price at which this fine receiver is listed. Mass production under ideal conditions, plus the most economical distribution method known bring it to our customers at an unheard of low price.

### 10 Days Free Test

So sure are we that you will pronounce it even superior to our claims for it that we sell you this MARVELO 6 on a 10 day free trial basis, as explained on Page 3.

### Wholesale Price List

1B13056—Set Complete, without accessories. List. \$60.00. **\$26<sup>95</sup>**  
NET WHOLESALE .....

### For Battery Operation

1B13057—Set Complete with All Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amp. "A" Storage Battery, two 4½ v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground Outfits. **\$53<sup>75</sup>**  
List. \$110.00. NET WHOLESALE .....

### For Socket Power Operation

1B13058—Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, Abox "A" Eliminator, Barawik Supreme "B" Eliminator, two 4½ v. "C" batteries and necessary Antenna and Ground Outfits. **\$72<sup>70</sup>**  
List. \$140.00. NET.....  
1B13059—Marvelo Twin Dial Six Chassis only. List. **\$19<sup>95</sup>**  
\$45.00. NET WHOLESALE.....



**Note These Special  
Features of the  
MARVELO  
TWIN  
DIAL 6**

**The Panel**

All metal, rich walnut grain finish with gold striping. Size, 7x18 inches. Acts as an effective shield, suppressing interference and insuring greater selectivity.

**Precision Condensers**

Their design insures even spacing of stations throughout the entire band. Perfect balance between the three is obtained by an ingenious adjusting device. A special panel knob controlled vernier clears up the circuit under extreme reception conditions. No greater sharpness can be obtained than in this manner.

**Solenoid Coils**

No expense has been spared to make this department of the receiver as nearly perfect as human knowledge and skill can. These coils are generally accepted as the ideal—electrically and inductively perfect.

**Low Ratio Audio Stages**

Giant, oversize audio transformers provide tremendous volume without hint of distortion. This division of the circuit is arranged for power tube in the last stage producing maximum amplification with delightful tonal qualities. Even the most critical listener remarks at the beautiful naturalness and purity of reproduction. The powerful audio system of this receiver brings a reserve power sufficient to amplify the weak signals on distance reception that are lost by the ordinary set.

**Mechanical Perfection**

The buyer wants his radio set to appear neat and workmanlike. The Marvelo owner may take pardonable pride in his receiver because of its finished mechanical construction. It is neat, precisely built, the work of an engineer who has insisted upon nothing short of perfection.

**Tested—Rugged**

Each Marvelo is subjected to the most rigid inspection and reception test right here in Chicago, the most difficult "Spot" for broadcast reception. Staunchly built, this proven performance is always assured years after it leaves our laboratories.

**Streamline Spinet Desk  
Model of the Wonder  
MARVELO TWIN  
DIAL 6**

Here we have brought to perfect enjoyment of radio reception the beauty of fine furniture. This pretty Spinet Desk will find favor with those who prize the sentiment of tasteful fittings for their home. The Spinet Desk had its origin in the historic, romantic days of Colonial pioneering of this new country. In its lines may be seen reflection of that elegant refinement which characterized the breeding of the good old "Virginia Families" of long ago. The followers of early American history know that the finest homes cherished and handed down through the generations these beautiful desks, on which the fine ladies of the period penned their frequent communications. A perfect setting for this wonder receiver—the heralds of the air bringing joy and education to replace the quill pen of long ago!

This pretty desk is fashioned from American Walnut in antique rubbed finish with delicate high lighting, strokes of the master finisher in clever replication of heirloom pieces! It is 40 inches long, 18 inches deep, 36 inches high. The drop leaf acts as an arm rest and writing space in logging, as well as protecting set when not in use. The tasteful grilles conceal an efficient inbuilt loud speaker on one end, the other space for batteries or power units. In this combination of the wonder Marvelo Twin Dial receiver and this beautiful desk, you have all that might be desired in a radio receiver.

**Wholesale Price List**

1B13061—Set Complete, without accessories. **\$52<sup>75</sup>**  
Shipping wt., 100 lbs.  
List, \$110.00. NET WHOLESALE.....

**For Battery Operation**

1B13062—Set Complete with All Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amp. "A" Storage Battery, two 4½ v. "C" batteries, three large 45 v. "B" batteries, and complete Antenna and Ground outfits. Shipping wt., 180 lbs. List, \$160.00. NET WHOLESALE..... **\$78<sup>95</sup>**

**For Socket Power Operation**

1B13063—Set Complete for Socket Power Operation, including four 201A type, one 200A type, and one 112 type power tubes, Abox "A" Eliminator, Barawik "B" Eliminator, two 4½ v. "C" batteries and necessary Antenna and Ground outfits. Shipping wt., 145 lbs. List, \$190.00. NET..... **\$98<sup>75</sup>**

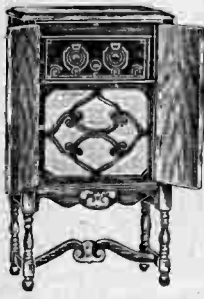


**A Most Beautiful Set With Self-Contained Space for Speaker, Batteries and Power Units**

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3



## MARVELO TWIN DIAL 6 Hi-Boy Console Model



Beautiful console in walnut plywood with figured maple overlays on posts. Herringbone mahogany overlays on front. Scrupia overlays on doors. Curly maple scroll overlay on stretcher. Rich rubbed Adam brown finish. Built long air column speaker with genuine Utah unit. Top raises. Grille and back removable for easy access to battery section. Overall dimensions: Height, 44 in.; width, 26 3/4 in.; depth, 16 1/4 in.

The receiver is the famous Marvelo Twin Dial 6 described in detail on pages 16 and 17.

### Wholesale Price List

1B13115—Set Complete, without accessories. Shipping wt., 120 lbs. **\$63<sup>00</sup>**  
List, \$125.00. NET WHOLESALE....

### For Battery Operation

1B13116—Set Complete with All Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amp. "A" Storage Battery, two 4 1/2 v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground outfits. Shipping wt., 210 pounds. **\$89<sup>25</sup>**  
List, \$175.00. NET WHOLESALE....

### For Socket Power Operation

1B13117—Set Complete for Socket Power Operation, including four 201A type, one 200A type, and one 112 type power tubes, Abox "A" Eliminator, Barawik Master "B" Eliminator, two 4 1/2 v. "C" batteries and necessary Antenna and Ground outfits. Shipping wt., 180 lbs. **\$107<sup>00</sup>**  
List, \$205.00. NET.....

## MARVELO TWIN DIAL 6 Ortho-Type Console Model

The very latest in fine console design and an instant favorite. Generally considered the ideal design for the proper acoustical qualities so necessary for the best results in reproduction. Made of genuine walnut plywood, beautifully finished, with high light and two tone effect. Fitted with deep-toned, long air column horn with heavy duty unit. Drop leaf in front of set provides tuning arm rest. Top raises. Ample power for batteries and power units—open in rear. Stands 36 in. high, 28 1/2 in. wide, 18 in. deep.



The receiver is the Marvelo Twin Dial 6 described in detail on pages 16 and 17.

1B13120—Set Complete, without accessories. Shipping wt., 110 lbs. **\$55<sup>75</sup>**  
List, \$105.00. NET WHOLESALE....

### For Battery Operation

1B13121—Set Complete with All Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amp. "A" Storage Battery, two 4 1/2 v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground outfits. Shipping wt., 215 pounds. **\$81<sup>95</sup>**  
List, \$155.00. NET WHOLESALE.....

### For Socket Power Operation

1B13122—Set Complete for Socket Power Operation, including four 201A type, one 200A type, and one 112 type power tubes, Abox "A" Eliminator, Barawik Master "B" Eliminator, two 4 1/2 v. "C" batteries and necessary Antenna and Ground outfits. Shipping wt., 195 lbs. **\$99<sup>75</sup>**  
List, \$185.00. NET.....



# MARVELO TWIN DIAL 6

## Easy Chair Model

Because of the ease and comfort in tuning this style of console has become deservedly popular. Just place your favorite easy chair alongside and the dials are just in the proper position for ready tuning.

The console is constructed of genuine walnut plywood in dull rubbed Adam brown finish. The workmanship in every detail represents the effort of skilled furniture artisans. Behind the pretty grille is a splendid long air column, deep-toned speaker equipped with Utah unit, famed for its excellent reproduction. Top raises for quick access to tubes and connections. Stands 35 1/2 in. high, 23 1/2 in. wide, 17 1/2 in. deep.

The receiver is the remarkable Marvelo Twin Dial 6, described in detail on pages 16 and 17. It is one of the most efficient receivers ever made.

### WHOLESALE PRICE LIST

1B13125—Set Complete, without accessories. Shipping wt., 120 lbs.  
List, \$95.00. **\$49<sup>95</sup>**  
NET WHOLESALE .....

#### For Battery Operation

1B13126—Set Complete with All Accessories for Battery Operation, including four 201A type, one 200A type and one 112A type power tubes, one Barawik 120-amp. "A" Storage Battery, two 4 1/2 v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground outfits. Shipping wt., 210 lbs.  
List, \$145.00. **\$76<sup>20</sup>**  
NET WHOLESALE...

#### For Socket Power Operation

1B13127—Set Complete for Socket Power Operation, including four 201A type, one 200A type, and one 112 type power tubes, Abox "A" Eliminator, Barawik Supreme "B" Eliminator, two 4 1/2 v. "C" batteries and necessary Antenna and Ground outfits. Shipping wt., 180 lbs.  
List, \$175.00. **\$93<sup>95</sup>**  
NET.....



# MARVELO TWIN DIAL 6

## Console Model

Unquestionably one of the greatest values ever offered in the history of radio. Although low in price, this is actually a high quality receiver in every respect.

The Console is constructed of American walnut plywood in dull rubbed antique finish. Its pleasing design harmonizes admirably with almost any other furniture. It stands 40 in. high, 27 in. wide and 14 in. deep. The set rests in a slide-out tray for easy access to tubes and connections. The lower compartment houses a special cone speaker of an advanced design developed for us by one of the best makers of fine loud speakers. It is a marvel for its fine reproduction and tremendous volume. The lower compartment measures 12x23x10 in. and provides space for all power units or batteries, making this fine set completely self-contained.

The receiver is the famous Marvelo Twin Dial 6, described in detail on pages 16 and 17. For distance, volume and fine tone quality it has no superior and few equals.

### WHOLESALE PRICE LIST

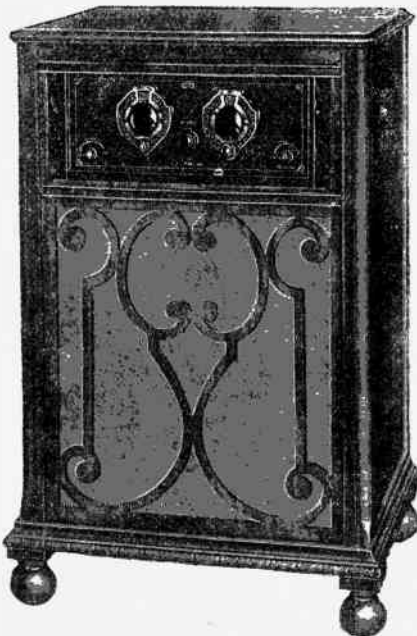
1B13131—Set Complete, without accessories. Shipping wt., 110 lbs.  
List, \$85.00. **\$44<sup>50</sup>**  
NET WHOLESALE .....

#### For Battery Operation

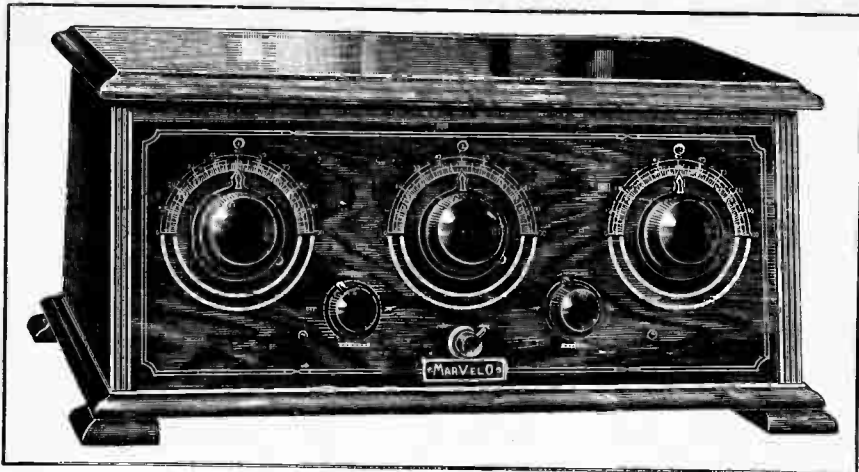
1B13132—Set Complete with All Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Barawik 120-amp. "A" Storage Battery, two 4 1/2 v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground outfits. Shipping wt., 215 lbs.  
List, \$135.00. **\$70<sup>75</sup>**  
NET WHOLESALE...

#### For Socket Power Operation

1B13133—Set Complete for Socket Power Operation, including four 201A type, one 200A type, and one 112 type power tubes, Abox "A" Eliminator, Barawik Supreme "B" Eliminator, two 4 1/2 v. "C" batteries and necessary Antenna and Ground outfits. Shipping wt., 195 lbs.  
List, \$165.00. **\$88<sup>50</sup>**  
NET.....







# Most Amazing Value in the History of Radio!

## MARVELO Three Dial 5-Tube Receiver

The kind of set that most people want. A good looking, easy to operate, reliably performing set, that has long enjoyed an unrivaled popularity in all parts of the country. Thousands of them are in daily use and every user is loud in its praise. Its price strikes the popular appeal. Its quality sets it far above anything in the field, even at twice the price! Radio experts know that for perfect results no type of control equals the three dial system. It provides that elasticity needed to bring the circuits to precise synchronization under any and all conditions. This is the sharpest tuning set made.

In performance you can stake this set against any other 5-tube set on the market and many 6-tube models. For long distance reception it has few rivals and thousands of users testify to really amazing results with it. A simplified, balanced circuit, built up with the finest of parts, its feats of performance are sometimes almost beyond belief. In selectivity, it is as sharp as many multiple tube-sets, yet tuning is not difficult. All controls are synchronized to watch-like accuracy, making logging simple and reliable. Its true, natural, clear tone is a subject of wonder to all who hear it.

### Unsurpassed in Performance

A stabilized, perfectly balanced Radio Frequency Circuit; two stages radio, detector and two audio stages. Last audio stage arranged for proper C bias for Power Tubes, a feature seldom found on sets in this class. Covers entire broadcast range. 200 to 550 meters, perfectly. No oscillations, no squeals, no howls. Amazing volume and pure tone over entire scale.

Radio coils are of the Solenoid type, wound on bakelite tubing (the kind of coil pronounced the best by the Bureau of Standards and cost us much more to make than the ordinary type).

Straight-line frequency condensers of advanced style; mechanically perfect. Low ratio Audio Transformers provide perfect reproduction of both high and low notes in great volume—perfectly shielded, preventing inter-stage coupling and insuring greater selectivity.

Nicely finished Metal Panel, of the quality found only on higher priced sets. Snappler appearance, greater ruggedness, better performance. Tuning and volume controls of advanced design.

### Wholesale Price List

**1B13091**—Set complete, without accessories. List, \$40.00. **YOUR PRICE..... \$18.95**

### For Battery Operation

**1B13092**—Set Complete with All Accessories for Battery Operation including five matched 201A type tubes, one Barawik 120-Amp. "A" Storage Battery, "C" battery, two large 45 v. "B" batteries and complete Antenna and Ground outfits. List, \$79.50. **YOUR PRICE..... \$39.35**

### For Socket Power Operation

**1B13093**—Set Complete for Socket Power Operation including four matched 201A type, one 112A type power tubes, "Abox" "A" Eliminator, Barawik Supreme "B" Eliminator, "C" battery and necessary Antenna and Ground outfits. List, \$117.50. **YOUR PRICE..... \$63.95**

**1B13094**—Chassis Only—without cabinet, without accessories. List, \$35.00. **YOUR PRICE..... \$17.25**

### Console Table

Makes an ideal setting for the cabinet model receiver. An especially pretty design. It is fully described on page 123.

**16B11374**  
List, \$18.00.

NET

**\$9.25**



# MARVELO 5

## THREE DIAL RADIO RECEIVER

### Arm Chair Model

Extremely popular is this Console model which is low enough to permit the operator sitting alongside the receiver in his favorite easy chair. Console is made in genuine walnut plywood, in rich rubbed finish. Behind the artistically fashioned grill is a high long air column, deep-toned speaker equipped with a genuine Utah unit. Top raises. Ample space for batteries and power units is found in the roomy lower compartment around the speaker. Outside dimensions: Height, 35 1/2 inches; width, 23 1/2 inches; depth, 17 1/2 inches.

### The Splendid Receiver

The Marvelo 5 has been on the market for years and step by step has been refined and improved until today it stands preeminent among fine quality five tube receivers. In all its parts, only the finest of materials and the most expert skill has been used in its building. The reports from users everywhere testify to its marvelous performance and stability. On page 20 is a more detailed description of the chassis.

### Wholesale Price List

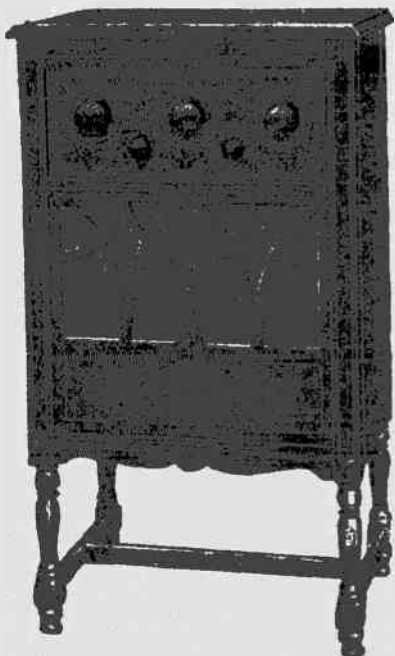
1B13083—Set Complete, without accessories. List, \$90.00. **\$47<sup>50</sup>**  
NET .....

### For Battery Operation

1B13084—Set Complete with All Accessories for Battery Operation including five matched 201A type tubes, one Barawik 120-Amp. "A" Storage Battery, "C" battery, two large 45 v. "B" batteries and complete Antenna and Ground outfits. List, \$129.50. **\$67<sup>95</sup>**  
NET WHOLESALE .....

### For Socket Power Operation

1B13085—Set Complete for Socket Power Operation including four matched 201A type, one 112A type power tubes, Abox "A" Eliminator, Barawik "B" Eliminator, "C" battery and necessary Antenna and Ground outfits. List, \$167.50. **\$91<sup>95</sup>**  
NET .....



# MARVELO 5

## THREE DIAL RADIO RECEIVER

### Compact Console Model

A most compact console in the popular semi-highboy style. A decided advantage lies in the speaker being below the receiver. Constructed of choice American walnut in the Adam brown rubbed finish. Inbuilt is a splendid loud speaker equipped with the genuine Utah unit, known for its exceptionally fine reproduction of broadcast. The lower section provides generous space for all batteries and power units. The top raises for easy access to set. Outside measurements: Height, 38 1/4 inches; width, 22 inches; depth, 14 1/4 inches.

### Unmatched for Value

Here we have proof of Barawik's leadership in bringing to homes of modest means the finest Radio has to offer. The great Marvelo three dial receiver has long distinguished itself under all conditions to be one of America's sets. In range, power, sweet tone quality and dependability, it has no superiors. You will make no mistake in choosing it. See opposite page for more detailed description of the chassis.

### Wholesale Price List

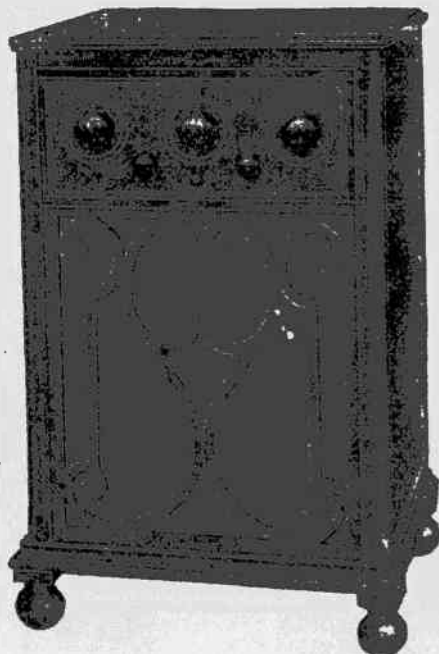
1B13087—Set Complete, without accessories. List, \$80.00. **\$42<sup>50</sup>**  
NET .....

### For Battery Operation

1B13088—Set Complete with All Accessories for Battery Operation including five matched 201A type tubes, one Pioneer 120-Amp. "A" Storage Battery, "C" battery, two large 45 v. "B" batteries and complete Antenna and Ground outfits. List, \$119.50. **\$62<sup>95</sup>**  
NET .....

### For Socket Power Operation

1B13089—Set Complete for Socket Power Operation including four matched 201A type, one 112A type power tubes, Abox "A" Eliminator, Barawik "B" Eliminator, "C" battery and necessary Antenna and Ground outfits. List, \$157.50. **\$86<sup>50</sup>**  
NET .....



WE PAY FREIGHT AS PER OFFER ON PAGE 3

# MARVELO 8 Tube Receiver

## POWER SINGLE CONTROL COMPLETELY SHIELDED

**Greater Range—Beautiful Tone Quality**

This truly wonderful receiver is the result of long years of painstaking, expensive development of an eight tube set that would get maximum efficiency from each and every tube yet should be easy of control. So finely adjusted and balanced is this highly perfected receiver that there is but one control and absolutely no trimmers of any kind. While three knobs appear on the panel, only the lower one operates the tuning. The smaller left knob provides critical control of volume—the other selectivity.

### A Set of Great Range

Four stages of radio frequency precede the detector—three are tuned, one untuned. This arrangement makes for the keenest sensitivity. Thus the weakest far away signals are picked up, gradually and strongly amplified before delivery to the power detector. There is a marked increase in clarity as well—reception is stabilized—selectivity greatly sharpened. We have never seen a receiver with wider range and power, blanketing the country with ease and speed, due to the simple, effective and sharp tuning control.

### Superb Tone Qualities

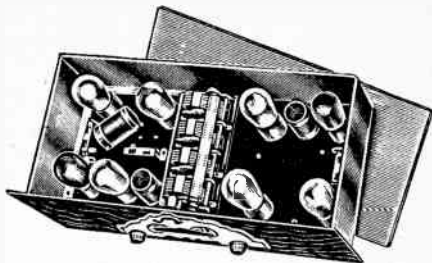
Experienced set users know that resistance coupled audio amplification produces the sweetest, purest, mellowest, most faithful reproduction. To retain this beautiful tone quality, yet provide the wanted great volume without mixture of tubes was a problem perfectly solved by our engineers in this great receiver. Three stages are used, one coupled for the ultra powerful 112 power tube. And, we guarantee that this receiver will work on a good "B" Eliminator (such as the Barawik Supreme) without "motor-boating." With the required 180 volts impressed on the plate circuit, there is no blasting, just an unbroken sweet, uniform, natural flow of audio frequencies. Beautifully clear, exquisitely precise throughout the entire range of organ, the cello and the human voice and with exceptional volume, the output of this receiver is truly a revelation to the lover of fine radio broadcast reproduction. It is not excelled even by the highest priced receivers.

### Completely Shielded

All parts are entirely surrounded by a metal housing over which is fitted a metal cover. This plan keeps the delicate instruments away from dirt, dust and prevents casual tinkering. Together with the metal panel, this construction provides an effective shield to absorb stray fields between stages and suppress outside disturbing interference.

### A Highly Perfected Receiver

Each unit is of the finest quality obtainable. The coils, condensers, sockets (cushioned detector), dial, controls, are all precision built. Assembly is by highly skilled radio tech-



nicians with the result that this is a splendid appearing, very rugged and substantial set. It will operate best on a 75 to 100 foot outside aerial, but will work on shorter distance with a loop.

### Try It 10 Days at Our Risk

We know what your verdict will be. See the details of this liberal test offer on page 3 of this catalog.

### An Unmatched Value

Barawik methods of manufacture and distribution bring you this marvelous receiver at about half what you would pay through the ordinary channels. You will be amazed at the tremendous good value it represents after you have seen and tried it.

### WHOLESALE PRICE LIST

**1B13191**—Complete, but without accessories. **\$52.35**  
Shipping weight, 70 lbs. List, \$95.00. NET.....

### For Battery Operation

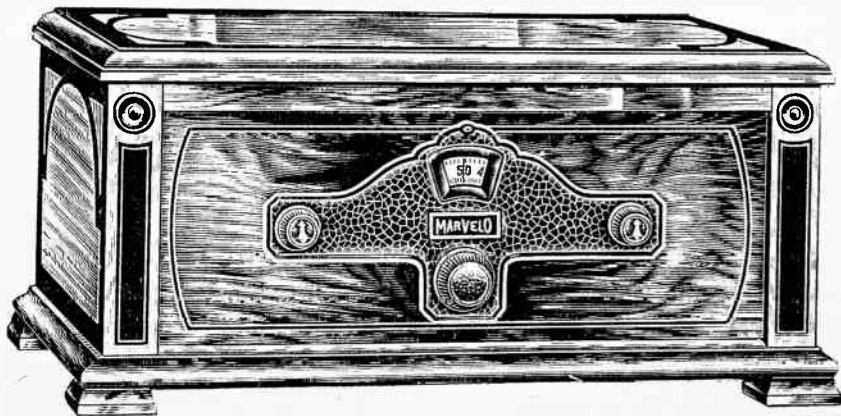
**1B13192**—Set Complete, with all accessories for Battery Operation, including five 201A type, one 200A type and one 112 type power tubes, one Barawik 130-amp. "A" Storage Battery, four large 45 v. "B" Batteries, 13½ volts "C" Batteries and complete Antenna and Ground Outfits. **\$92.95**  
Shipping weight, 165 lbs. List, \$158.00. NET...

### For Socket Power Operation

**1B13193**—Set Complete for Socket Power Operation, including five 201A type, one 200A type and one 112 type power tubes, Barawik Supreme "B" Eliminator, Abox "A" Eliminator, 15 volts "C" Batteries and necessary Ground and Antenna outfits. Shipping weight, 150 lbs. **\$105.50**  
List, \$188.00. NET.....

### The Chassis Only

For those who wish to select a fine console for this wonder receiver, as listed on pages 114-122, we offer the chassis only. **1B13194**—Marvel 8 Chassis only, without accessories. List, \$85.00. NET WHOLESALE..... **\$48.10**



THE BARAWIK CO., CHICAGO, U. S. A.



# Select the Right Accessories to Get the Proper Results from the Radio Receiver of Your Choice

## Barawik Furnishes the Best

Many a good receiver suffers from the use of old tubes or indifferent batteries (or power units) or both. The buyer can save himself an endless amount of grief by using only good quality equipment and accessories.

Marvelo Sets are a quality product. In choosing accessories for them, we selected only the best grade. Don't be fooled by low prices! Some distributors make a practice of furnishing cheap batteries, poor quality tubes and cheap power units in order to make an "attractive" price on complete outfits. We will not do that. There are no "hidden" values in Barawik offers—you see and understand everything, because we are frank and open.

Below are shown the accessory units listed as equipment with Barawik Sets.

## "Full Electric" and "AC" Receivers

There seems to be general confusion as to what is meant when you say a set is electrically operated. There are really two kinds of electrically operated receivers, those using standard tubes and "A" and "B" battery eliminating devices run from the light socket, and those using the new A. C. tubes with "raw" A. C. current.

As to the A. C. Receiver, using the new A. C. tubes, we are as yet not fully decided. Our laboratories have been working on this problem for some time, as have many other companies. But, we do not believe that the A. C. Receiver is now sufficiently developed to permit of widespread distribution. We believe in the idea and we are positive that within a year or so, it will be perfected. When that time comes, we will be ready with our line. In the meantime, we urge caution in this quarter. In order to combat all present competition, we have listed some of the Marvelo Line for A. C. operation and these numbers will be furnished to order in that type.

## For Battery Operation

The outfit furnished with Marvelo Sets for battery operation, and available for similar receivers, contain the following:

### For 6 Tube Sets

	List Value
4 201A Type Tubes @ \$1.75.....	\$ 7.00
1 200A Type Power Detector Tube.....	4.00
1 112 Type Power Amplifier Tube.....	4.50
3 Large Upright Bright Star "B" Batteries @ \$3.75.....	11.25
2 4 1/2 Volt Bright Star "C" Batteries @ 60c.....	1.20
1 Pioneer 120-Ampere Storage "A" Battery.....	20.00
1 Complete Ground and Antenna Outfits.....	3.50
<b>Total Retail Value.....</b>	<b>\$51.45</b>

**2B307—Your Net Cost.....**

**\$26<sup>20</sup>**

### For 5 Tube Sets

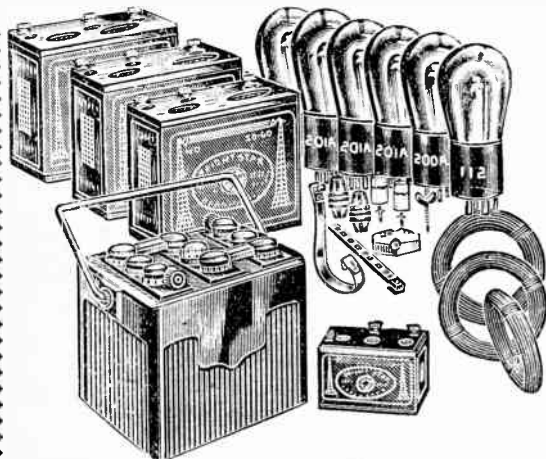
Same as above except with four 201A type and one 112 type power amplifier tubes. Total Retail Value, \$47.75.

**2B6366—Your Net Cost..... \$24.75**

### For 7 Tube Sets

Same as above except with five 201A type, one 200A power detector and one 112 type power amplifier tubes. Total Retail Value, \$53.20.

**2B6367—Your Net Cost..... \$27.15**



## For Light Socket Operation

The outfits furnished with Marvelo Sets for Light Socket Operation, and available for similar receivers, contain the following:

### For 6 Tube Sets

	List Value
4 201A Type Tubes @ \$1.75.....	\$ 7.00
1 200A Type Power Detector Tube.....	4.00
1 112 Type Power Amplifier Tube.....	4.50
1 Pioneer Mogul "B" Power Unit.....	39.75
1 Pioneer Abox "A" Power Unit.....	32.50
2 4 1/2 Volt Bright Star "C" Batteries @ 60c.....	1.20
1 Complete Ground and Antenna Outfits.....	3.50
<b>Total Retail Value.....</b>	<b>\$92.45</b>

**2B308—Your Net Cost.....**

**\$44<sup>85</sup>**

### For 5 Tube Sets

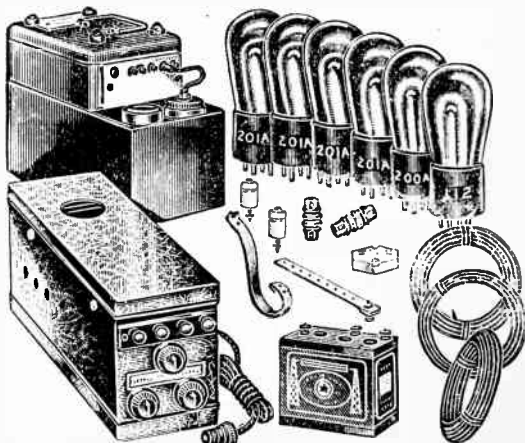
Same as above except with four 201A type and one 112 type power amplifier tubes. Total Retail Value, \$88.45.

**2B6368—Your Net Cost..... \$42.85**

### For 7 Tube Sets

Same as above except with five 201A type, one 200A power detector and one 112 type power amplifier tubes. Total Retail Value, \$94.20.

**2B6369—Your Net Cost..... \$46.55**



SEE PAGE 3 FOR FREIGHT ALLOWANCE OFFER.

# New Marvelo Electric Combination Radio - Phonograph

**The MARVELO Shielded Six  
Radio Receiver and the Symphonic  
Phonograph in One Instrument**

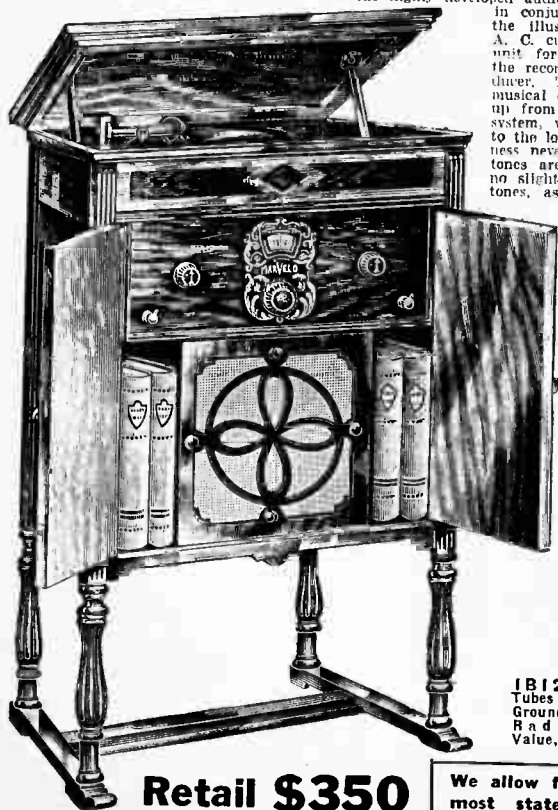
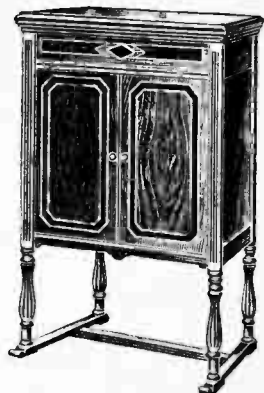
*The idea of electrical reproduction of music has taken the country by storm! It is truly a triumph in the science of electricity and the art of musical reproduction. If you have not heard this new method you have a treat in store that will amaze, enthral and fascinate you! You would not dream that such beauty of tone were possible! Clear, vibrant, resonant, with complete rendition of both the booming bass and the shrill soprano notes—brought forth in all their natural shadings.*

This is a complete socket power instrument, completely self-contained. All you do is plug it into the light socket, turn the switch and you are ready either for phonograph or the radio. The Receiver is the now famous Marvelo Shielded Six, a complete description of which is given on pages 4 and 5.

The Phonograph and Electrical Amplifier is separate and distinct from the receiver and operates strictly independently, except that each employs the same loud

speaker. The Phonograph is equipped with an electric motor and the conventional 12 inch turntable. The Reproducer is the new, improved electrical type, the action of which is described in detail on page 85. After the reproducer is placed in position on the record and the motor started, this reproducer picks up the impulses from the grooves of the record, passes them into the Phono-Amplifier and thence to the loud speaker. This amplifier is similar to the highly developed audio amplifiers used

in conjunction with radio receivers. As can be seen from the illustration, it employs a rectification system for the A. C. current and a transformer coupled audio amplification unit for the perfect reproduction of recorded music from the record as it has come from the spectral electrical reproducer. This arrangement brings to the phonograph the best musical qualities of radio. The audio frequencies as picked up from the record pass through this special amplification system, which employs regular radio tubes, sending it forth to the loud speaker with a great volume, purity and naturalness never before known in reproduced music. The weakest tones are built up, the overtones held in check. There is no slightest of the base and overemphasizing of the higher tones, as is the case with some systems. Reproduction is pure, full and vibrant—an effect that cannot be described, but is the marvel and delight of all who hear it. There is positively no distortion and tremendous volume can be had with the controls provided without overloading.



## The Special Loudspeaker

The inbuilt speaker has been especially selected for this instrument to meet the conditions of broadcast reception and the beautiful, faithful reproduction of the phonograph record.

## The Beautiful Console

A masterpiece of the designer's and craftsman's art in the making of fine furniture. Constructed of choice American Walnut in dull rubbed and polished Adam brown finish. It is richly embellished with perfect fluting and a two-tone overlay effect as shown. It stands 48 inches high, 29 inches wide and 17½ inches deep. Strong and sturdy, it forms a perfect housing for this marvelous new instrument.

## Equipped Complete

The Marvelo Combination Electrical Phonograph-Radio comes completely equipped with all tubes necessary for instant operation. No batteries or power units of any kind are required. Shipping weight, complete, 350 lbs.

1B12105—Complete with all Tubes and equipment, including Ground and Antenna outfits for Radio Receiver. Retail List Value, \$350.00.

Net Wholesale

**\$195<sup>00</sup>**

**Retail \$350**

We allow freight charges on this Radio set to most states East of the Rocky Mountains  
See Page 3



# New Improved HYATT 6-Tube Portable Radio Receiver

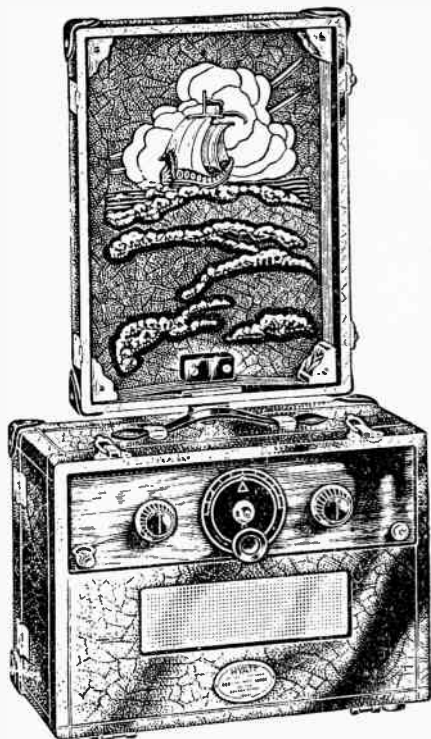
Relieves dreary days or nights of their monotony. There is an individuality about the HYATT Portable that engenders companionship. Wherever you go, wherever you are, it is a dependable source of entertainment. If you have a standard radio, it belongs to the family. If you have a HYATT Portable, it belongs to you. It may be taken to the seclusion of your own room—to your office or to your Summer Camp. When you travel, it provides entertainment en route, and at your destination it is still on the job. No home is complete without a radio. The HYATT Portable serves the home as well as the individual.

## A National Sensation Is This Fine Portable! Three Stages Radio Frequency—It Steps Out!

The Hyatt is known throughout the Country as one of the most reliable portable radio receivers. Some truly amazing reports have been made of its performance. It easily excels any other portable which we have tried.

Great care is exercised in the workmanship and material used in this Receiver. The walnut panel and knobs, gold trimmed Vernier dial, the black corner tabs and handle, make a color combination that is pleasing and attractive.

Transformers, both radio and audio frequency, built under our own specifications and name, mounted on a bakelite base. Benjamin tube sockets are used throughout.



One of the Finest Portables Ever Made!

The Baritone Loud-Speaker Unit is of special construction for this receiver. The horn is hand-made, of seasoned mahogany, and has a ten-inch throat. The reproduction qualities are a revelation—true, clear, and with great volume.

The circuit used is untuned radio frequency, employing three stages of radio frequency, one detector, and two stages of audio frequency, matched and balanced to secure maximum efficiency.

The case is especially attractive in artificial leather covering with ship design on the inside of cover which houses the loop. The view at the left below shows the Receiver totally enclosed for carrying. Size, 11 inches high, 14 inches long, and 9 inches deep; weighing, completely equipped with batteries and tubes, less than 28 pounds—without accessories, 15 pounds.

The equipment used is six 200 type Tubes; three 1 1/2 volt "A" Batteries; two 4.5-volt "B" batteries, and one 4 1/2 -volt "C" battery.



1B6357—Set only, no Equipment. Retail Price, \$95.00.  
NET.....  
WHOLESALE..... **\$55.86**

1B6358—Set Complete with all accessories as specified above. Retail Price, \$115.00. NET. WHOLESALE..... **\$69.00**

## The Trav-Ler Portable

Amazingly Compact—Light in Weight—Easy to Operate

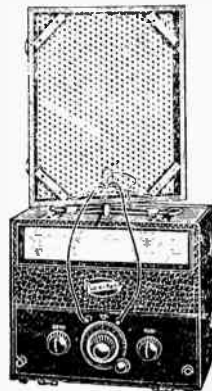
The first extremely compact portable, the Trav-Ler has become very popular. The case is rigidly made and covered with black leatherette. It will withstand a lot of banging around. A time-tried and proven 5-tube circuit employing 2 stages of Radio Frequency, 1 Detector and 2 stages Audio Amplification. By the use of the finest parts, full size low ratio audio transformers, both tone quality and volume are surprisingly good. A giant speaker unit, coupled with a scientifically designed tone chamber, produces room-filling volume that amazes all who hear this wonderful little receiver.

Simply place the loop aerial which is contained in the cover on top of set, turn on the switch and the receiver is ready to operate. The direction of the loop

together with the single vernier dial makes tuning very simple with good selectivity. Jack is provided for head phone use if desired.

Size over all is only 8 1/2 inches deep, 10 inches high, 12 1/2 inches wide—no larger than an ordinary small handbag. Weighs only 24 pounds—a child can carry it about. The view at right shows how snugly all batteries, tubes and parts are arranged—not an inch of space wasted. Ship, wt., 28 lbs.

1B5515—Set only. List Price, \$65.00. **\$38.20**  
NET, EACH.....  
1B5517—Set complete with all accessories (tubes and batteries) ready to operate. List price, \$85.00. **\$50.00**  
NET.....



WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3



# All Electric AC Six Radio Receiver

## Using Straight AC from Light Socket and Employs Kellogg AC Tubes

Retail \$275  
Net Wholesale

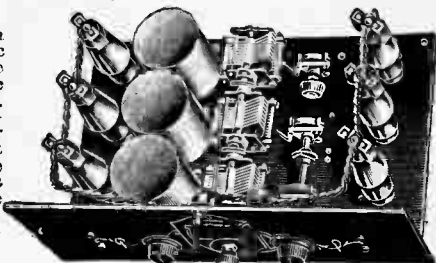
**\$165**

Slow in coming, but here it is—a thoroughly reliable A. C. Electric Radio Receiver. A. C. tubes have been on the market for some time and have been accepted as practical, having reached a high point of perfection. Yet, it was quite another problem to develop a receiver that would give perfect results using these wonder tubes. We believe that this is such a receiver and we take pride

in offering it to our Dealers and stand squarely behind it. Batteries and power units are a thing of the past with this new All Electric Receiver. It is as dependable as your electric light. There are no complicated parts to get out of order. Simply plug into the light socket, turn on current, tune in and enjoy the finest, easiest reception you have ever known.

### A Wonderful Six Tube Circuit

The circuit of this wonder set is a perfectly balanced, stabilized six tube arrangement, employing three stages of tuned R. F., Detector and two stages of Audio Amplification. A special A. C. Power Tube is used in the output audio stage. All tubes are the Kellogg A. C. type—no batteries of any description are incorporated. The tubes will last a long period of time and their smoothness of operation is a marvel to all who have heard this revolutionary receiver.



Shows neat, compact, workmanlike interior of this wonderful All Electric Six Tube Receiver. Note shielded R. F. stages.

### Single Control—Illuminated Dial

The set is completely controlled from the panel, the urgent helix turned on and off by a special switch. Tuning is done by a single control. Precision made at every stage, with each R. F. stage specially and separately shielded, selectivity is amazingly sharp. Station after station is brought in by the slightest turn of the dial and there is complete absence of squeals and howls. A small light brightly illuminates the dial, so that it may be tuned in the darkness. This light also acts as a signal, preventing leaving the receiver turned on when reception is finished. The illustration gives some idea of the tasteful beauty of the panel front, reflecting the simplicity which characterizes this highly perfected receiver.

### You Have Never Heard Anything to Excel It!

This wonderful receiver was developed by radio engineers of long experience. It is not simply a radio set of conventional design rearranged to use A. C. Tubes. From the "ground up" it has been designed around the peculiar characteristics and operating qualities of the Kellogg A. C. tube. It is just as "quiet" as a good D. C. receiver, there is no hum, fluttering or microphonic noises of any kind to mar the sweet, even flow of reception. Great volume is possible without the slightest suggestion of distortion or "forcing." In tonal value, it is unsurpassed.

### Magnificent Period Style Console

Such a receiver deserves housing in only the finest console. Here we have an impressive, magnificent cabinet constructed of American walnut, richly veneered with perfectly matched butt walnut front and striking overlay panels. It stands 51 inches high, 27 inches wide and 16 inches deep. The workmanship and the hand rubbed and polished finish mark this a fine piece of furniture, worthy of the most richly furnished home.

### Comes Complete—Nothing Else to Buy

No units or other equipment aside from aerial and ground are required in the operation of this set. And, there is nothing to wear out except the tubes. These can easily be replaced by anyone—no expert knowledge is required. Years of test have shown that they will outlast the ordinary D. C. style of tube.

### Bararik Leads in Value

You will find by comparison that the prices listed are far below the standard market for this type of receiver—quality considered. You can stake this fine receiver against any other electric set on the market and find it will perform with the best of them. It is truly an amazing value at this special price.

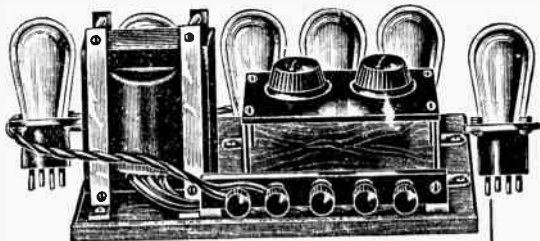
This All Electric Six operates from any 110 volt, 60 cycle Alternating Current, as generally found everywhere for lighting purposes. It is equipped with cord and plug, all ready for instant operation. Shipping weight, complete, 175 pounds.

**IB1528—All Electric Receiver, complete with six Kellogg or McCullough A. C. Tubes, attachment cord and plug. Retail List Value, \$275.00**

**NET WHOLESALE ..... \$165.00**



# How to Electrify Any Radio Receiver Using the New A. C. Tubes



## Genuine A. C. Tubes

These tubes are the very newest development in the tube field. They operate from raw A. C. and no complicated apparatus is needed. You need only wire the tubes as we show in our simple instructions and you have a set which obtains its complete A current from the light socket. If you then have or buy a good B eliminator the set will be a true A. C. set. You need make practically no changes in your set. Just simply add the material furnished in the kit and replace your old tubes with these A. C. tubes.

## Does Away With all "A" Batteries "A" Eliminators and Chargers

The day of the completely electrically operated radio receiver is dawning. Many methods have been suggested including "A" and "B" eliminators. It is true that a "B" eliminator together with a good "A" eliminator will electrify any set, but this method requires considerable equipment and expense. In the offer made here the "A" eliminator has been eliminated. Here is a small kit which allows any set to be electrified in a few minutes. It is a very simple matter when our simple instructions are followed.

set to simple

## Now Modernize Your Old Set

Now is the time to buy the kit listed here and make your set the latest thing. It not only increases the value of your old set a great amount but also relieves you of the messy old batteries and adds greatly to your enjoyment of radio. Your set is always ready to operate at its maximum efficiency. It always receives the proper voltage. No more run down batteries causing your set to be sluggish but plenty of strong peppy power at all times. Now you can really enjoy radio.

### 5 Tube A. C. Kit

The Essential A Kit—Contains 1 special transformer, 2 20 ohm rheostats, 1 500,000 ohm resistor, 1 2 mfd. condenser, 5 binding posts, mounting strips, wiring diagram, bushbar wire.

3B6531—List, \$15.00.

**\$810**

Complete A. C. Kit containing the Essential kit above, 4 Volttron Electric Amplifier Tubes and 1 Volttron Electric Detector Tube.

3B6532—List, \$33.00. NET.....

**\$1980**

### 6 Tube A. C. Kit

The Essential A Kit—Consists of 1 special transformer, 2 20 ohm rheostats, 1 500,000 ohm resistor, 1 2 mfd. condenser, 5 binding posts, mounting strips, wiring diagram, bushbar wire.

3B6533—List price, \$15.00. NET.....

**\$810**

Complete A. C. Kit containing the Essential kit quoted above, 5 Volttron A. C. Electric Amplifier Tubes, 1 Volttron Electric Detector Tube.

3B6534—List price, \$36.00. NET.....

**\$2150**

### Voltron A. C. Tubes

3B6523—Voltron A. C. Amplifier Tubes. List, \$3.00. NET.....

**\$1.95**

3B6524—Voltron A. C. Detector Tubes. List, \$6.00. NET.....

**\$3.80**

## For Listing of RCA, Cunningham and Daven A.C. Tubes SEE PAGE 54

### New McCullough A.C. Tubes



For new A. C. operated sets. Requires no storage battery or dry cells for filament lighting. Operates directly from the house lighting current through step down transformer. Quiet operation. No hum. Non-microphonic. Better tone quality. No burn-outs. Extremely rugged with long life.

2B824—List, \$3.43

\$5.00. NET.....

2B6522—McCullough A. C. Power Tube. List, \$7.50. NET... \$5.15

### New Sovereign A.C. Tubes

Requires no "A" batteries for filament operation. Heater type. Operates direct from the house lighting current through a step down transformer. May be used to convert any radio receiver to an A. C. operated set. Long life.

2B6520—A. C. Tube. List, \$5.00. NET.....

**\$3.19**

2B6521—A. C. Power Tube for last audio stage. List, \$6.00. NET.....

**\$3.81**



### For RCA and Cunningham A.C. Tubes

The new Cunningham and RCA A. C. Tubes will be very popular this season. Now is the time to buy them and the equipment needed for them so that you may obtain the fullest enjoyment from your set this season. The Thordarson transformer type T-2445 is designed especially for the Cunningham and RCA tubes. Three separate filament voltages are supplied. 1½ volts to supply up to 6 UX-226 or CX-326 tubes; 2½ volts to supply two UY227 or CY327 detector tubes; and 5 volts to supply two 5 volt power tubes. Also equipped with receptacle for B supply input plug. Shipping wt., 6 lbs.

3B6536—A. C. Tube Supply. List price, \$10.00. NET.....

**\$5.88**



### For Kellogg and McCullough Tubes

This transformer is for use only with the Kellogg and McCullough A. C. tubes. Has sufficient capacity to supply the heater current for 1 to 10 of these tubes. Primary is for 110-115 volts, 50-60 cycles. Secondary 3 volts with center tap. Current capacity 10 amperes. 6 foot cord and attaching plug. Shipping wt., 5 lbs.

3B6537—List price, \$7.50. NET.....

**\$4.41**

NET.....



### For Van Horne Tubes

The Van Horne Tube operates on raw A. C. and is similar to the UX-226 except that it consumes 2 amps. at 1 volt. This transformer will handle 3 tubes safely. Primary is for 110-115 volts A. C., 60 cycles. Secondary 1.25 volts, no center tap. 6 foot cord and attaching plug. Shipping wt., 4 lbs.

3B6538—List price, \$5.00. NET.....

**\$2.94**



# BALKITE Radio Power Units

## Balkite "A" (Batteryless) Replaces "A" Batteries—Model 6

Replaces "A" batteries entirely and supplies a noiseless, uniform "A" filament current direct from the light socket. Replaces either storage or dry "A" batteries. Employs no battery in any form. Does away with batteries, chargers, relays and switches. Consists of a rectifier, and electrolyte filter-condenser combined in one cell. Positively noiseless in operation and has no hum. No tubes to burn out or replace. Its current output is uniform and constant.

Operating only during reception, it is the most economical source of "A" current and outlasts any other power unit.

Rated output: 6 volts, 2 amperes. Dimensions: 6x10 $\frac{3}{4}$ x8 $\frac{3}{8}$  inches high overall. Operates from 110 volt A. C. 60 cycle current. Shipping weight, 33 lbs.

**2B5277—List, \$35.00.**

**NET, EACH.....**

**\$20.58**

## "B"—180 Universal "B" Supply

A new improved universal model for all sets using any type of tube including 112 and 171. Remarkably smooth unfluctuating uniform output. Meets the needs of very large sets where tone quality is required. Intermediate taps for smaller sets.

Output 55 milliamperes at 180 volts, A. C. 60 cycle current. Shipping weight, 35 lbs.

**2B5275—List, \$42.50.**

**NET, EACH.....**

**\$24.99**

## ← "B"—135 New Improved Model

A new improved type for any set, including sets using 112 type tubes. Smooth, unfluctuating, uniform output throughout the period of operation. Output 40 milliamperes at 135 volts.

Dimensions: 4 $\frac{1}{2}$ x8 $\frac{1}{4}$ x8 $\frac{1}{8}$  inches high. Operates on 110 A. C. 60 cycles. Unquestionably one of the best socket power "B" supply devices on the market. Shipping weight, 18 lbs.

**2B5276—List, \$35.00. NET, EACH.....**

**2B5285—Special for 25 cycle current.**

**List, \$39.50. NET, EACH.....**

**\$20.58**

**\$23.23**

## "B-W" Popular Priced "B" Supply

Recommended for sets having 5 tubes or less, and requiring 67 to 90 volts. Has separate tap for detector tubes. Dimensions: 3 $\frac{1}{2}$ x7 $\frac{1}{2}$ x8 $\frac{3}{8}$  inches high. Operates on 110 volt A. C. 60 cycle current. Special model for rent without annoyance of continuous adjustments. Shipping wt., about 12 lbs.

**2B5273—List, \$22.50. NET, EACH.....**

**2B5274—Model "B" W. R., Special for 25 cycle current.**

**List, \$27.50. NET, EACH.....**

**\$13.23**

**\$16.50**



## Model "J" Full Rate and Trickle Charger

For 4 or 6 volt "A" batteries. Has two charging rates. A low rate when used on continuous or trickle charge is sufficient to keep the battery at full power. A high rate for heavy duty use. Noiseless in operation and in most instances can be used while the set is in operation. Operates from 110-120 A. C. Models for both 25 or 60 cycles. Dimensions: 5 $\frac{1}{2}$ x8 $\frac{1}{2}$ x7 $\frac{1}{2}$  inches high. Charging rates 2.5 amperes high rate; .5 amp. low rate. Ship. wt., 18 $\frac{1}{2}$  lbs.

**2B5271—List, \$17.50. NET, EACH.....**

**\$10.29**

**2B5283—Special Model R J for 25 cycle 110 volt current. List, \$19.50. NET, EACH.....**

**\$11.47**

## Model "N" Large Trickle Charger



A new trickle charger of increased capacity to serve large sets and power tubes. Has two rates. .5 and .3 amperes. The first rate is sufficient as a trickle charger for sets up to 5 tubes. The second for sets of up to 8 tubes, including power tubes. Operates from 110-120 A. C. Dimensions: 1 $\frac{1}{2}$ x7 $\frac{1}{2}$ x6 $\frac{1}{2}$  inches high. Charging rates: .5 and .8 amp. Ship. wt., 8 $\frac{1}{2}$  lbs.

**2B857—For 50-60 cycle. List, \$9.50. NET, EACH.....**

**\$5.59**

**2B856—Model R. N. Special for 25 cycle current. List, \$11.00. NET, EACH.....**

**\$6.47**



## The "AB" (Batteryless) Replaces Both "A" and "B" Batteries

Balkite "AB" consists of Balkite "A" and Balkite "B" in one housing. The "A" side is a complete rectifier and electrolyte filter condenser combined in one cell. The "B" side is the new improved Balkite "B". It is noiseless in operation and has no hum. It has no tubes to burn out or replace. Its current output is constant and uniform, and it delivers to the set at all times the same current delivered by batteries when these are fresh and fully charged. Requires no adjustments.

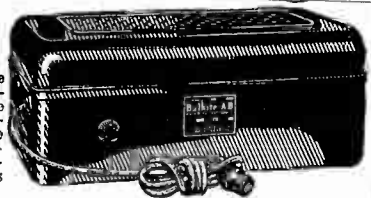
**2B5284—Model 6-135. Dimensions: 10 $\frac{1}{2}$ x18 $\frac{1}{2}$ x7 $\frac{3}{4}$  inches overall. Operated at 135 v. "B" current. Shipping weight, 5 v. 2 amp. "A"—40 mil. **\$37.93****

**2B5282—Balkite "AB" model 6-180. Output, 6 volts, 2 amperes "A" current, 55 milliamperes at 180 volts "B" current. Dimensions: 10 $\frac{1}{2}$ x18 $\frac{1}{2}$ x7 $\frac{3}{4}$  inches overall. Operates from 110 volt A. C. 60 cycle current. Shipping weight, 56 lbs. List, \$74.50. NET, EACH.....**

**2B5272—Special for 25 cycle current. List, \$74.50. NET, EACH.....**

**\$43.81**

**\$43.81**



## Burns B-Power



Handles all sets of six tubes or less, including those having 171 power tubes in the last stage. No hum no acid—no voltage drop even under the heaviest load. Delivers 180 volts at 35 mils with ample reserve power. Three positive taps, Detector, Amplifier and Power. Two variations on power tap and two regulating knobs. Approved by underwriters. Noiseless, dependable. Size, 5x12x6 inches. Shipping wt., 18 lbs. Complete with tube. **2B6278—List, \$35.00. NET.....**

**\$20.58**

5 to 150 can be secured. User can adjust to best reception for his particular set. Once adjusted no further attention is required. For any set up to 10-20A tubes or equivalent. Absolutely quiet, no hum, distortion or vibration. Won't heat up. Raytheon full wave tube used as rectifier. Recessed switch. Size, 9 $\frac{1}{2}$ x8 $\frac{1}{4}$  inches high. Shipping weight, 50 lbs. **2B5279—Type 2 for 110-120 volt with tube, \$20.58**

**60 cycle A. C. List, \$35.00. NET.....**

**2B5279 $\frac{1}{2}$ —Type 2A, for 1 to 12 tube sets, 180 volt maximum. List, \$42.50. NET.....**

**2B5280—Type 2C with tube for 110-120 volt A. C. 25 or 30 cycle. List, \$47.50. NET.....**

**\$24.99**

**\$28.50**



## Kingston "B" Eliminator

Readily adaptable to any set, providing three variable taps. Any desired voltage from 110-120 A. C. can be secured. User can adjust to best reception for his particular set. Once adjusted no further attention is required. For any set up to 10-20A tubes or equivalent. Absolutely quiet, no hum, distortion or vibration. Won't heat up. Raytheon full wave tube used as rectifier. Recessed switch. Size, 9 $\frac{1}{2}$ x8 $\frac{1}{4}$  inches high. Shipping weight, 50 lbs. **2B5279—Type 2 for 110-120 volt with tube, \$20.58**

**60 cycle A. C. List, \$35.00. NET.....**

**2B5279 $\frac{1}{2}$ —Type 2A, for 1 to 12 tube sets, 180 volt maximum. List, \$42.50. NET.....**

**2B5280—Type 2C with tube for 110-120 volt A. C. 25 or 30 cycle. List, \$47.50. NET.....**

**\$24.99**

**\$28.50**



## Majestic "B" Eliminators

Every Majestic unit is guaranteed for one year against electrical and mechanical defects. A printed guarantee enclosed with each unit. The Majestic "B" rectifier tube is guaranteed for 1,000 hours (equivalent to about one year's average use). Nationally advertised and known as one of the finest, most reliable "B" eliminators. Cabinet furnished in rich black crystal enamel. Genuine bakelite panel. Dimensions: 10 1/4 in. deep x 5 1/2 in. wide and 9 in. high. Complete with extension cord and plugs with control switch. Shipping wt., 22 lbs.



Majestic Super "B"—rating, 50 milliamperes at 180 volts. Sufficient power for sets up to 12, 201A tubes or equivalent. Delivers 130 volts for the new type 171 power tubes. Two variable output voltage controls insure perfect operation.

**2B779—Complete with Majestic "B" Rectifying Tube.** List, \$29.50. Your net wholesale cost, EACH.....

Majestic Master "B"—rating, 60 milliamperes at 200 volts. Similar in appearance and design to Master "B", but equipped with 4 B-taps, for 22 1/2 volt, 67 1/2 volt, 90 volt and 135 volt, as required on many popular sets. Complete with Majestic 100 milliamper tube.

**2B778—List, \$32.50 NET, EACH.....**

Majestic special Master "B"—rating, 60 milliamperes at 200 volts. Similar in appearance and design to Master "B", but equipped with 4 B-taps, for 22 1/2 volt, 67 1/2 volt, 90 volt and 135 volt, as required on many popular sets. Complete with Majestic 100 milliamper tube.

**2B778-1—List, \$32.50 NET, EACH.....**

The precision "B" Power Unit for the owner who wants the very best. The ideal eliminator for extra large sets. With complete control of all output voltage taps. Complete with Majestic 100 milliamper tube.

**\$17.35**

**\$19.11**

**\$19.11**

### MAJESTIC ACE MODELS

Equivalent to Master "B" in output rating and all-around efficiency, but equipped with step-down transformer and output terminals for filament connections for supplying current for A. C. Tubes. Each Complete with No. Model Type A. C. Tube List 100 Mill. Tube

<b>2B7835</b>	ACE "J"	McCullough	\$35.00	<b>\$20.58</b>
<b>2B7836</b>	ACE "S"	CX226 or UX226	\$35.00	<b>20.58</b>

The newest dry "A" unit, thoroughly tested, to replace 6-volt "A" Battery.

**2B7837—Majestic "A" List, \$39.50, EACH.....**

Majestic "B" rectifier tube, a gas filled tube of the finest quality with ionizer which increases power, lowers operating temperature, and adds greatly to the life of the tube. 100 milliamperes.

**2B7782—List, \$4.50 NET, EACH.....**

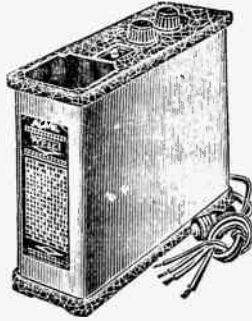
Majestic 85 milliamper gas filled "B" rectifier tube. A sturdily designed tube especially made for replacement of all previous models of Majestic "B" units and all other "B" eliminators, using gas type (cold cathode) tubes.

**2B7733—List, \$5.00. NET, EACH.....**

## Acme E1 "B" Eliminator for 1 to 12 Tube Sets

Constant, noiseless "B" power direct from the light socket. Has variable controls, detector and intermediate voltages. Will furnish sufficient voltage and current for operation of 112 and 171 power tubes. Furnished with high-low switch, making possible two ranges of voltages with both adjustments. Only 3 1/4 in. wide, 8 1/2 in. deep and 7 1/4 in. high. Attractive tan finish case. Complete with cord and plug and leads. Furnishes unlimited power without hum or distortion. For 110 volt, 50-60 cycle A. C. current. Complete with Raytheon tube.

**2B6320—List, \$50.00. NET, WHOLESALE ..... \$29.40**



## Sentinel "ABC" Power Unit Completely Automatic

Combines both Sentinel Automatic "A" and Sentinel "B" units, furnishing complete power supply in one case for all current needs. The "A" division consists of a high-grade storage battery of 60 ampere capacity, together with a heavy duty 2-ampere Tungar tube charger with complete automatic control. The "B" ("C") Power unit is the simplest, most efficient device of this type ever marketed, eliminating all servicing for the dealer. It consumes two rectifier tubes and has much greater capacity than the usual "B" Power unit. Delivers 80 milliamperes of current at 180 volts. This gives a tremendous reserve over and above actual amount used by even the largest radio set now in use. Absolutely quiet and no hum. Furnishes intermediate voltage for radio frequency tubes, 0 to 110; detector voltage, 0 to 75; output voltage for last radio stage is variable fixed at 4 1/2 volts, the second varying from 4 1/2 to 45 volts. Two Sentinel Powercure rectifying tubes furnished. Operates on 110 volt, 60 cycle alternating current. Shipping weight, 45 lbs.

Sentinel "A B C" Beverly Model, as illustrated.

**2B7776—For 6 Volt. List, \$98.50. NET..... \$57.92**

Sentinel Standard "A B C" Unit (not illustrated).

**2B7778—For 6 Volt, Advertising Circulars furnished on request. List, \$79.50. NET, EACH..... \$46.75**

## Bremer-Tully

### "B" Power Unit

Made by a company widely known for the superior quality of its products. Guaranteed for one year. No adjustments after installation. No knobs to turn—nothing to lose or get out of order. Every part of this splendid unit is made of the finest materials—not a single part of it has ever been returned to the factory on account of condenser breakdown. A distinctive feature is the four-way switch, which in combination with the taps quickly fits the unit to any conditions. Handles up to 10 tube sets. Capacity, 150 volts at 50 mills. Very compact; size, 2 1/2 x 3 1/4 x 6 3/4 inches. For all 60 cycle 110-115 volt A. C. Shipping wt., 17 lbs.



**2B5290—List, without tube, \$37.50. NET, EACH ..... \$22.05**

**2B831—Raytheon BH Rectifying Tube. List, \$4.50. NET, EACH ..... \$2.55**

## Acme "B" Power Supply

A distinctive feature of this fine unit is the voltage control through a rheostat in the primary. Fixed resistances are used in the output circuits. This provides simple single control and the detector and B. C. voltages may be changed when desired. Five taps are provided and voltages may be obtained as follows: Detector plus (35 to 45 volts); B. F. 60 volts; A. F. 135 volts and 180 volts, and B. C. 180 volts, and 180 volts, finished with tan lacquer. Uses Raytheon type rectifier tube and will supply up to 180 volts for sets of eight tubes or less. Dimensions are: 3 1/4 x 8 3/4 x 7 3/4 inches. Operates on 110 volts, 60 cycle A. C. current. Shipping weight, 25 lbs.



**2B5294—List, with Raytheon tube, \$53.00. NET, EACH ..... \$20.58**

## All-American

### Constant "B" Battery Eliminator

Due to the good quality of the transformer, chokes and other instruments used in its manufacture it is absolutely noiseless in operation and delivers steady output voltages. 5 output taps: negative, plus 45, plus 67, plus 90 and "P" indicating power tube. This complete range of voltages makes the ALL-AMERICAN eliminator highly desirable for use with any receiver. Two controls allow the operator to vary voltages on the detector and radio frequency (67 volt) stage. The 45-volt tap output can be varied from 10 to 60 volts. Likewise the 67-volt tap may be varied from 10 to 120 volts. The "High-Low" switch keeps the output voltages at rated values despite variations in milliamperage drain.



Attractively finished in maroon crystal-line. Its dimensions are 7 in. wide, 5 1/2 in. high, and 9 in. long. For 110-volt 50-60 cycle A. C. Shipping wt., 22 lbs.

**2B5292—List, with Raytheon Tube, \$36.00. NET, EACH ..... \$21.17**

**2B5293—Special for 25-40 cycle 110 volt A. C. List, \$41.00. NET, EACH ..... \$24.11**

### Compact Upright Model

All American "B" Power 7 in. high, 3 in. wide, 8 1/2 in. long. Output 60 mills. at 135 volts (35 at 180). For 110 v. 50-60 cycle current. Complete with tube. Shipping weight, 20 lbs.

**2B6321—List, \$27.50. NET ..... \$16.17**

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

# KODEL-KUPROX Light Socket Power Units

## KUPROX Standardized Trickle Charger Replacement Unit



Replaces electrolytic jars on all trickle chargers, power units, "A" powers, etc. Very simple to install. KUPROX unit in place of jar. Gives full wave rectification and double former

charging rate (.8 to 1 amps.) Shipping wt., 5 lbs.  
**2B7752**—List, complete. **\$2.65**  
 \$4.50. Net, each.

## KUPROX Rectifier Replacement Unit



Replaces all acids, liquids, bulbs, vibrators, etc. Doubles charging rate of any trickle charger, eliminates noise, heat, adjustments, replacements. Requires no attention—lasts indefinitely. Develops 2-2½ ampere charging rate. Shipping wt., 3 lbs.  
**2B7753**—List, \$4.50.  
 Net, each. **\$2.65**

## KODEL "A" Transifiers



Models 102 and 103

Absolutely no hum, increased volume, sustained power. Contains no battery or charger. No liquids or tubes and requires absolutely no attention. Guaranteed for a minimum life

of 1,000 operating hours.  
**2B7750**—Kodel, Model 102 "A" Transifier for all 6 Tube and Smaller Receivers and handles one Power Tube. Automatic control switch. Size, 5¼x10¼x12¼ inches. Shipping wt., 35 lbs. For 115 volt, 50-60 cycle A. C. current.  
 List, complete, \$29.50. **\$17.35**  
 Net, each.  
**2B7751**—Kodel, Model No. 103. For all receiving sets, no matter what size. Automatic Switch Control. Size, 5¼x10¼x12¼ inches. Shipping wt., 40 lbs. For 115 volt, 50-60 cycle A. C. current.  
 List, complete, \$39.50. **\$23.23**  
 Net, each.

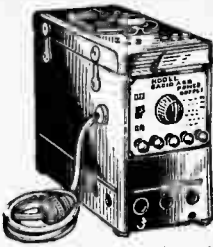
## KODEL No. 120 Combination

### Power Amplifier and "B" Transifier



Adds one stage of power tube amplification to any receiver without changing spring. Eliminates all "B" batteries—absolutely no hum. Gives greater volume—better tone—reduces strain on loud speaker—eliminates distortion. Contains no liquids. Supplies 45, 90, 180 volts "B" and 45 volts "C" current. For 115 volt 50-60 cycle A. C. Size, 5¼x10¼x12¼ in. long. Shipping wt., 24 lbs.  
**2B7766**—Model 120, without Tube. List, \$45.00. **\$26.45**  
 Net, each.  
**2B7759**—Rectifying Tube. List, \$2.50. **\$1.50**  
 Net, each.

## KODEL "A," "B" and "C" Transifiers



Contain no acids, liquids or charging bulbs of any kind. Clean, safe, silent—requires no attention whatever. Fitted with new KUPROX dry rectifier and standard "B" eliminator tube.

Model 106 combines both the KUPROX 161 "B" and 101 "A" transifiers in a common case. Ample for all receivers with 6 201 "A" or 5 201 "A" and one power tube. Size, 5¼x10¼x12¼ in. Shipping wt., 43 lbs. For 115 volt, 50-60 cycle A. C. current.  
**2B7753**—Kodel, Model 106 "A" and "B" Transifiers. List, complete without "B" eliminator tube, \$58.60. **\$34.40**  
 Net, each.  
 Model 107 Super-Power Combination "A," "B" and "C" Transifier. Replaces all "A," "B" and "C" batteries on any set, regardless of size or voltage requirements. Size, 10¼x10¼x12¼ inches. Shipping wt., 75 lbs. For 115 volt, 50-60 cycle alternating current.  
**2B7764**—List, without Tubes, \$97.50. Net, each. **\$57.33**  
**2B7765**—Rectifying Tubes, extra (2 required). List, \$6.00. **\$3.00**  
 Net, each.

## KODEL "B" Transifier



Models 161 and 110

Model 161 is the perfect "B" eliminator for all 6 tube and smaller receivers, delivering full 180 volts for power tube operation.

Separate taps for 45, 90 and 180 volts. Size, 11x13x7¼ in. Shipping weight, 16 lbs.  
 Model 110 is for larger sets, up to 10 tubes, delivering full 180 volts with variable detector control, taps for 45, 90, 150 and 180 volts, "B" current.  
 Both are noiseless—no hum—giving increased power and perfect reception results. Both operate on 115 volt, 50-60 cycle alternating current. Size, 5¼x10¼x12¼ inches. Shipping wt., 22 lbs. Uses 2-216 Type Tubes.  
**2B7756**—Model 110. List, without Tube, \$39.50. **\$23.23**  
 Net, each.  
**2B7757**—Model 161. List, without Tube, \$26.50. **\$15.58**  
 Net, each.

## KODEL "B" Transifier

Model 60

Ideal "B" Eliminator for 3, 4 and most styles of 5-tube receivers at an amazingly low price. Costs little more than set of "B" batteries. Contains no liquids or jars requiring no adjustment. Uses standard rectifying tube.



Absolutely noiseless in operation. Output 45 and 90 volts at 20 M. A. For 115 volt 50-60 cycle A. C. current. Size, 3¼x8x5¼ inches. Shipping wt., 14 lbs.  
**2B7758**—List, without tube, \$14.60. Net, each. **\$8.53**  
**2B7759**—Rectifying Tube. List, \$2.50. **\$1.50**  
 Net, each.

## KUPROX Trickle "B" Recharger



Recharges dry cell "B" batteries to a certain limited degree, gives longer life to ordinary dry cell "B" batteries. Operation is entirely automatic and plate current is practically consumed direct from light socket. Supplies 45, 90, 135 and 180 volts "B" from 115 volt, 50-60 cycle A. C. circuit. Shipping wt., 8 lbs.  
**2B7755**—Complete with Tube. List \$10.00. **\$5.88**  
 Net, each.

## KUPROX Trickle Charger



For charging 6 volt batteries from 115 v. 60 cycle A. C. Absolutely dry, employing the efficient KuproX rectifying unit. An amazing value. Compact—3¼x4¼x5¼ inches. Shipping wt., 6 lbs.  
**2B7769**—Complete. List, \$10.50. **\$6.18**  
 Net.

## Triple Duty Gold Seal Horn-Charger



Fast 5 ampere charging rate—charges all auto and radio batteries over night. Rejuvenates paralyzed and lifeless tubes. Supplies A. C. filament current for power amplifying tubes. And, it does these three jobs with full efficiency. Uses no bulbs or liquids. Shock-proof, fire-proof—approved by fire underwriter. Size, 6x8x7¼ inches. Shipping weight, 15 lbs.  
**2B7770**—For 115 v. 60 cycle A. C. List, \$19.50. **\$11.47**  
 Net.  
**2B7754**—for 115 v. 25 cycle A. C. List, \$21.00. **\$12.35**  
 Net.

## MODERN "B"

### Compact



No unwieldy bulk, no noise. The condensers which are the heart of the eliminator are made by the manufacturer of the finest radio condensers in the world. Furnishes a strong, even flow of voltage, quietly, surely—as constant as Niagara, silent as the Sphinx. Neat metal case finished in olive green crystal lacquer. Tube fully enclosed and protected from damage. Three "B" output connections. Delivers up to 245 volts at 10 M. A. For all 115 volt 50-60 cycle A. C. Shipping wt., 45 lbs. Uses Raytheon Type Tub.  
**2B7768**—List, without bulb, \$25.60. **\$15.58**  
 Net, each.



## New Improved Unipower A Gould Product



**Type AC-6-K**  
Furnishes 6-volt "A" power from 110-125 volt, 60 cycle alternating current. Contains relay and socket to receive plug from any "B" eliminator. Consists of a special Gould storage battery in combination with a noiseless rectifying or charging unit of unusual design. Furnishes a rich, full, quiet power with neither hum nor noise.

Equipped with a Master control switch, which governs the operation of both Unipower and entire set. When switch is "On" set is operating and charging current is off and the set is switch is on "Off" the charging current is on and the set is disconnected. Dimensions: 11 1/2 inches long, 7 1/2 inches wide and 10 inches high. Shipping weight, 50 lbs.

**2B5268—For 6-Volt Tubes from 110 Volt, 60 Cycle Current. List, \$39.50.**

**\$23.23**

## Unipower Type AC-4-R

Designed specially to supply a continuous, unflashing "A" power for all radio sets using UV-199 tubes or their equivalent. Very compact, only 8 1/4 in. long, 5 in. wide and 8 3/4 in. high. Consists of a special Gould "A" battery in combination with a noiseless rectifying unit all enclosed in a handsome black rubber case with nickel plated fittings. Has gas type cover of exclusive design and vent tube. Equipped with the special Master control switch, which turns on the house current to charger automatically when set is shut off. Operates on 110-125 volt, 60 cycle alternating current. Shipping weight, 40 pounds.



**2B5269—List, \$29.50.**

**\$17.35**

## WESTINGHOUSE "A" Socket Power



Consists of a 4 or 6-volt D. C.-7 Battery and 1 1/2 ampere Rectox tri-plate charger housed in hard rubber case. Battery is being charged at all times even when set is in operation. Will operate a 5 tube set, containing one power tube. Shipped wet, fully charged, ready for service. Dimension, 6 1/2 in. high. Shipping weight, 40 lbs.

Dimensions: 13 1/2 in. long, 4 1/4 in. wide and 4 1/2 in. high.

**2B5265**  
Output, 6 Volts, from 110 Volt, 50-60 Cycle Current. Capacity at one ampere rate, 20. List, \$20.00.

**2B5266**  
Same, except 4 Volt Output. List, \$20.00.

NET **\$11.76**  
EACH.....

NET **\$11.76**  
EACH.....

## "A" Auto Power

Combination of high capacity storage battery (40 amp. hour) with trickle charge rectifier permanently attached. Very efficient and economical, using less current than a 15 watt lamp. Will outlast several storage batteries. Rectifier operates by means of an electron discharge through a copper plate and an orifice from the surface of the plate. No tubes, no electric light, no vibration or rotating parts. Double throw toggle switch controls the Autopower Switch automatically cuts off set and starts charger. Absolutely noiseless—not the slightest hum. All-rubber case. Shpg. wt., 65 lbs.



**2B5267**  
For 6 Volt Tubes from 110 Volt 60 cycle current. List, \$25.00.

**2B5287**  
DeLuxe Model with Automatic Relay Switch to control charging and "B" Eliminator current. List, \$35.00.

NET **\$15.00**  
EACH.....

NET **\$20.58**  
EACH.....

## PHILCO Socket "A" & "B" Power —No Hum—Full Power—Long Life

Dispenses with batteries entirely. Will accommodate sets with six or more tubes, including power tubes. For 110-volt, 50-60-cycle A. C. Provides 180 volts at 60 MA and contains especially large "A" Battery. Shipping wt., 80 lbs.

**2B5263**  
Type A-B686—with Philcotron rectifier. List, \$69.50.

**2B5264**  
Type A-B386 with Dry rectifier. List, \$79.50.

**2B5286**  
For sets of six or less tubes with Philcotron rectifier. List, \$69.50.

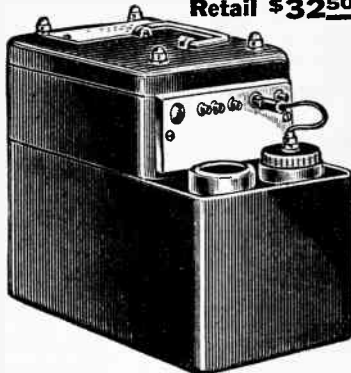
NET **\$45.15**

NET **\$53.00**

NET **\$38.00**

# The New Abox Socket Power Unit

Retail **\$32.50**



**Complete "A" Battery Eliminator No Delicate Rectifying Elements—No Relays—Requires No Attention Lasts a Lifetime!**

The outstanding feature of this new "A" socket power is its simplicity. As a result of years of experiment and development, we believe it to be the finest "A" battery eliminator yet produced. It is a combination of a charger and a filter combined in one compact socket unit. It derives its energy from the light socket, converting the 110 volt alternating current into uniform 6-volt direct current for the operation of the radio set. Can be quickly installed by anyone. Requires no changes in set and is designed for supplying filament current for any radio receiver employing eight or less 6-volt tubes. Automatically compensates for ordinary line voltage fluctuations, so that no displeasing disturbances mar the reception. Costs no more than a storage battery, and charger and yet provides a source of power as dependable as your supply of electricity, and is always ready, at the touch of the switch. There is positively no mechanical noise whatever, the whole device being absolutely noiseless in operation. There is no storage battery in the Abox in paste form or otherwise. It is never charged off or discharged. Current is used only when the set is in use. Does not deteriorate and is practically fool-proof in operation. We believe no finer "A" Socket Power has ever been produced, and we are positive that no such value has ever been offered in this field. Shipping weight, 10 lbs.

**2B5270—List, \$32.50.**

**\$19.11**

NET, EACH.....

## NATIONAL "A" Socket Power Unit



It consists of an Elkon charging device in combination with any size of National battery desired. Fully automatic. Brach relay switch. A "B" Eliminator Receptacle is also built in. The charging rate is one ampere, tapering to 3/4 ampere as the battery becomes fully charged. Shipped from Chicago, New York, Baltimore, Detroit, Atlanta, Dallas, Kansas City, at prices quoted. Allow 75c extra for shipment from Los Angeles, Oakland, Cal., Portland, Ore. and Seattle. Shipping wts., 50, 60, and 70 lbs.

**2B5260**  
6 volt, 50 ampere. List, \$29.00.

**2B5261**  
6 volt, 75 ampere. List, \$31.60.

**2B5262**  
6 volt, 100 ampere. List, \$33.30.

NET **\$17.40**

NET **\$18.96**

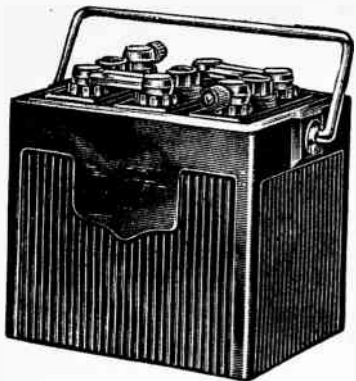
NET **\$19.98**



# BARAWIK Radio "A" Battery

## Guaranteed 3 Years

### Extra Long Life and Uniform Power



Without question, one of the finest radio "A" batteries ever constructed. Scientifically designed to meet the exacting requirements to which a good battery of this type is constantly placed.

It has thick, heavy lead plates, separated with selected cedar separators, assuring the maximum of power and performance under the most severe conditions. Contained in a heavy Ebonite case with a strong ball handle.

The flow of voltage is constant and even. No variation, hence no disturbing interference. For clarity, uniformity and evenness of operation, no device has ever been conceived that will match a good storage battery for constant unvarying voltages to the filament.

Pioneer storage batteries are guaranteed for three years against any defect in material or workmanship. This does not designate the life of the battery, which, under ordinary conditions, should be much longer; but positively assures you a long period of unbroken, satisfied service under any ordinary conditions.

Shipped from warehouses at Chicago, Minneapolis, Kansas City, Milwaukee and Brooklyn at prices quoted. Also shipped from Memphis, Dallas, Atlanta and Denver at 75c each above prices quoted.

2B11050—6 v., 60 amp. size.

List, \$15.00. NET, EACH.....

**\$5.88**

2B11051—6 v., 100 amp. size.

List, \$18.00. NET, EACH.....

**7.25**

2B11052—6 v., 120 amp. size.

List, \$20.00. NET, EACH.....

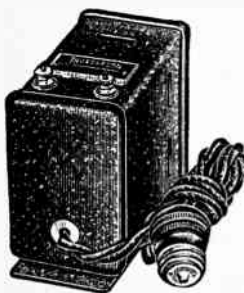
**\$ 9.00**

2B11053—6 v., 140 amp. size.

List, \$22.50. NET, EACH.....

**10.35**

## THORDARSON Charger



Model R 175. An entirely new, amazingly efficient charger of all the fine quality its name implies. Full 2 ampere rate. Will bring average battery to full charge over night. No liquids or bulbs—requires no attention. Equipped with Raytheon cartridge rectifier. Very compact—only 2 3/4 in. wide, 5 1/2 in. long and 3 1/2 in. high. No vibrating parts—entirely noiseless. Will last indefinitely. Shipping wt., 6 lbs.

2B630B—Retail price, with Raytheon Cartridge complete, **\$7.35**  
Retail, \$12.50. NET.....

## ACME "A" Charger

A real advancement in charger design and construction. No acid, no liquids or filaments. Uses the new Raytheon "A" cartridge rectifier. Small and compact. Quiet in operation and requires absolutely no attention. Crackle finish cast base, shaped top, it presents an attractive appearance. Complete with cord and plug and battery leads with clips. Shipping wt., 8 lbs.



2B6309—Model A. C. 6-2 1/2 amp. Charger with one Raytheon "A" unit.

Retail, \$12.50. NET.....

**\$ 7.35**

2B6310—Model A. C. 7-5 amp. Charger with 2 Raytheon "A" units. Retail, \$18.00. NET.....

**10.59**

## HANDY Fully Automatic Charger



Operates entirely automatic. Consists of Tungar bulb rectifier (COMBINED WITH TWO RELAYS. When set is turned off the charger turns on automatically and charging begins at rate of 2 to 2 1/2 amperes. This continues until battery reaches full charge—then potential relay operates and cuts off charger. The series automatic relay, which is also a part of this charger, takes care of the B POWER supply turning the eliminator on or off, depending on whether or not the radio set is turned on or off. Shipping wt., 15 lbs.

2B7730—For 110 volt, 50 or 60 cycles, complete with Genuine Tungar bulb, **\$11.88**

Bulbs. List, \$20.00. NET.....

2B7771—For 25 cycle current.

List, \$22.00. NET.....

**12.94**

## HANDY Trickle Booster Charger

Keeps "A" battery fully charged constantly. Is permanently connected to battery terminals and, with switch to low side, battery receives constant easy flow of noiseless current (1/2 ampere). If battery shows signs of weakening, merely push switch to "fast" side and the battery will receive a full, quick charge (2 to 2 1/2 amperes) and is quickly brought back to full strength. Long life, 2-ampere bulb. Duro dark maroon finish, all metal case. Really converts battery into light socket unit with permanent connections. Shipping wt., about 9 lbs.



2B7732—For 110 volt, 50 or 60 cycles complete with bulb.

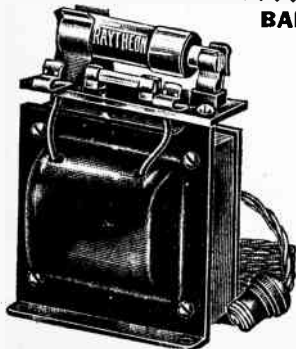
List, \$14.00. NET, EACH.....

**\$8.23**

2B7774—For 110 volt, 25 cycle, complete with bulb. List, \$16.00. NET, EACH.....

**\$9.41**

## BARAWIK Special 2 1/2 Amp. Dry Charger



Not a trickle charger. Employs the new Raytheon "A" dry cartridge rectifier. No acids, no bulbs, no moving parts. Absolutely quiet, simple—nothing to get out of order. Full 2 1/2 ampere charging rate. Will charge any storage battery to full capacity over night. Small and compact—will fit almost anywhere. Requires no attention and lasts indefinitely. One of the most efficient chargers ever made and offered at an amazingly low price considering its high quality of material and workmanship. You will make no mistake in choosing this splendid charger.

Shipping wt., 4 lbs.  
2B6311—List, \$12.00.  
NET, WHOLESALE.....

**\$6.35**

## WHITE "A" Power Unit Tungar Bulb Type

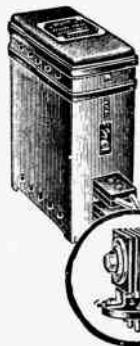
One of finest "A" powers made. Uses no battery or trickle charger. Stores no current. Never discharged—never discharged. Always ready. Develops full, clear reception. Simple in construction, fool-proof, trouble-proof. Employs solid plate filter—no acids or corrosion. Shipped dry and addition of water every six months is all attention required. Finest of materials in unit choke, transformer, condenser and filter units. Doesn't heat up. Output is sufficient for sets using from four to nine 1/4 ampere tubes. No vibration, hum or ripple—even with voltage fluctuations up to 24 volts. Shipping wt., 28 lbs.



2B7772—List, without tube, \$39.50. NET.....

**\$23.23**

See Page 34 for Tungar Tubes.



## Elkon Bone Dry Trickle Charger

A New Proven Idea

Operates without noise, without attention, without acids, bulbs or moving parts.

The 0.7 amp. size starts charging 6-volt batteries at about 0.7 amp., but automatically tapers off as the batteries reach maximum efficiency, and from that point allows only as much current to trickle in as is needed to replenish the batteries. The 3 amp. size starts charging at 3 amperes and tapers down to 2 amperes or less as battery reaches peak. Neat japanned metal case, equipped with toggle switch. Operates on 105 to 120 volts.

**2B209—0.7 amp. 60 cycle. \$ 7.95**

**2B213—0.7 amp. 25 cycle. 9.31**

**2B212—3 amp. 60 cycle. 10.29**

List, each, \$17.50. NET.....

### Elkon Rectifying Units

Replacement dry rectifying units for Elkon Chargers.

**2B6375—Trickle Rectifying Unit. 74c**

List, \$1.25. NET.....

**2B6376—Three-Amp. Rectifying Unit. \$3.55**

List, \$6.00. NET.....

New Dry Rectifying Method—Superior to all others.

### Elkon Choke Coil



This coil, used in conjunction with the Elkon 3 Ampere or other similar charger, supplies the set owner with a dependable source of "A" filament supply, used in connection with a new ordinary "A" battery. This combination is intended for use during reception only. Has ample capacity for supplying undimishing filament power to the full capacity of the charger, no matter how many hours per day the set may be used.

**2B214—List, \$6.00. NET..... \$3.60**

### Genuine Tungar Charger

Practically noiseless in operation. Charge your battery over night at a cost of only a few cents. Light weight. Easy to handle. Cord for easy connections. Enameled metal case. Simply insert plug in 110 volt 60 cycle A. C. socket. No adjustments required. Prices include bulb. Charges 2, 4, 6 and 12 volt "B" batteries. Shipping wt., 10 and 15 lbs.



**2B5655—(2) amp. NET... \$ 9.10**

**2B5656—(5) amp. NET... 15.60**

### Genuine Tungar Rectifying Tubes

**2B834—(1) amp. NET..... \$2.76**

**2B835—(2) amp. NET..... 2.76**

**2B836—(5) amp. NET..... 5.50**

### Tungar Trickle Charger

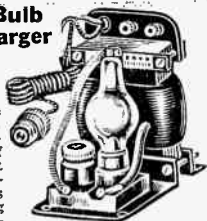


By the General Electric Co. Charges 6 or 4-volt batteries at 1/2 amp. rate. Silent in operation. Requires no acid or water. Will not overcharge. Low trickle charging rate. Small and compact. Recommended for use with low storage battery. Has adjustable charging rate. Shipping wt., 8 lbs.

**2B775—List price, \$10.00. \$6.50**

NET.....

### Junior Bulb Type Charger



Silent in operation. Gives very satisfactory results. The low price is possible because of simple yet effective design. Has no moving parts. Requires no adjustment. Connects to 110 volt 60 cycle A. C. Charges 6 volt auto or radio or B battery up to 90 volts, for a few cents. Fitted with five foot bullet-necting cord and plug and five foot battery leads with clips. Bulbs included. Shipping wt., 10 and 15 lbs.

**2B304—(2) amp..... \$ 7.95**

**2B305—(5) amp..... 13.75**

### Direct Current Battery Charger

Charges any battery 2-12 volts at a rate up to 6 amperes. Meter indicates the actual charging rate. Extension cord and battery leads. Strong battery clips are included. Dimensions, 5x7x9 inches. Shpg. wt., 10 lbs.



**2B210—110 Volt D. C. \$7.80**

List, \$12.00. NET.....

**2B211—32 Volt D. C. 7.80**

List, \$12.00. NET.....

### Tritox Automatic Trickle Charger—with Westinghouse Rectifying Tubes



11 quids or moving parts. Requires no renewals nor attention. Combined with high efficiency switch to switch charge off when set is on, and switches B eliminator on and off with set. Starts with 3/4 ampere charge which tapers down to 1/2 ampere. Very compact. Full wave efficiency. Convert your old battery into a modern A power unit with this charger.

**2B217—List, \$16.00. NET... \$9.60**

### Valley Battery Charger



Equipped with binding post connections for charging 6 and 12 volt batteries. Operates on 110 volt, 60 cycle A. C. current. Bakelite panel. Transparent molded glass cover. Rests on rubber feet. Shpg. wt., 12 lbs.

**2B5657—List price, \$11.73**

**\$19.50. NET.....**

**2B5658—Special for 110 volt 25 cycle A. C. Current. \$13.95**

List, \$21.00. NET.....

### 2 Amp. Dry Charger

Employs the new dry rectifying unit. No acids, bulbs or moving parts. Quiet. 2 amp. rate brings average battery to full charge over night. Requires no attention. Compact, 5 1/2 in. high, 3 1/2 in. wide, 3 in. deep. Operates on 110 v. 60 cycle A. C.

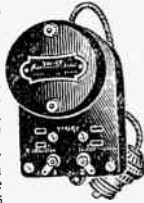


**2B6377—Complete. \$7.45**

List, \$12.50. NET.....

### Yaxley Automatic Power Control

Does all the extra switching for you. It takes care of your "B" eliminator or trickle charger or both. When you turn your set on, the trickle charger is off, the "B" eliminator is on. When you turn the set off, the Power control is standing guard for you. It works automatically and without fail to turn off the "B" eliminator and turn on the trickle charger. Shpg. wt., 2 lbs.



**2B314—Series Type for use with sets with tubes having a current draw equal to or greater than 6 UV 199 type tubes. List, \$5.00. NET... \$2.94**

**2B315—Multiple type for use with any set, but especially recommended for sets having current draw of less than six UV-199 type tubes. \$3.53**

List, \$6.00. NET.....

### Service Station Battery Charger

Capacity: 17 Batteries, 6 Amp. Rate. Easy to make money charging batteries when you receive 50c to \$1.00 for charging a single battery.

Passes underwriters' specifications wherever installed. Charges all makes of auto, radio or lighting batteries. Easy to install. Comes complete with bulb. Most economical on current consumption, effecting 40% to 60% saving in current bills. Easy to operate. Just connect batteries in series to the charging circuit. Space required about 11x13x12 inches. Mounts on wall. Operates on 110 volts, fitted with switch, meter and regulator. Automatic cutoff turns charge off in case of line current failure and on when current comes back on. Batteries cannot discharge accidentally. Price includes rectifying bulb. Shipping wt., 26 lbs.

**2B11043—For 60 cycle current. \$49.75**

rent. NET.....

**2B11044—For 25 cycle current. 56.75**

rent. NET.....





### Switch

Connects Battery Charger and "B" Eliminator to set and makes and breaks all connections when filament panel switch is thrown. Automatically turns on light socket current to charger when set is off and when set is on, it cuts off charger and "B" Eliminator is thrown onto set and connected to light socket current. For 4 or 6 volt batteries. Shipping wt., 2 lbs.

**2B328**—List, \$8.00. Net, each..... **\$4.70**



### Improved Automatic Relay Switch



Helps electrify any radio set. When switch on set is turned on, it automatically shuts off the charger and instantly starts the "B" eliminator. When the set switch is turned off it stops the "B" eliminator and instantly starts the charger. Can also be used with either trickle charger or "B" eliminator separately. Shpg. wt., 1 1/2 lbs.

**2B327**—List, \$3.00. Net..... **\$1.77**

### Extension Cord Set



Has 6 feet of No. 18 twisted pair lamp cord. Brass shell socket on one end, two piece separable plug on other end.

**4B7438**—Each..... **59c**

### Jewell A-B Relay

An automatic switch which controls eliminator and trickle charger. **Makes any set fully automatic.** Simply switching on the set automatically switches the eliminator on and the charger off. Makes possible remote full automatic control of battery, charger and eliminator.

**2B6354**—Type 503, for sets using 5 or more 3-volt tubes.  
**2B6355**—Type 505, for sets using 4 or more 5-volt tubes.  
 List, \$5.00. Net..... **\$3.19**



### Brach Controlit Switch



An automatic relay for "A" power supply and "B" eliminator. Automatically switches "B" eliminator and "A" power supply on or off as the set is switched on or off. Entirely automatic. Recommended by IBalkite. Shpg. wt., 1 1/2 lbs.

**2B311**—List, \$4.50. Net..... **\$2.65**

### 2-Piece Plug

A sturdy well designed, good quality plug. Brass blades with Beveled ends. Ample space for wiring.

**4B7283**—Each. Net..... **7c**



### Lamp Cord Connector



For lamp cord extensions. Quickly makes or breaks contact. Used for coupling two lengths of lamp cord.

**2B6356**—Net..... **19c**



### 2-Way Plug

Well built composition Plug. It is a good domestic make.

**4B7284**—Each. Net..... **20c**

### Extra Tap

Designed to double the capacity of a single Pin-Type receptacle made of fine polished composition.

**4B7287**—Each..... **14c**



### Trio Tap



A three way pin type cluster with standard Parallel prongs to fit into any flush receptacle.

**4B7354**—Each..... **11c**

# Combination "B" Supply and Power Amplifiers

## PACENT POWERFORMER

### Combination Power Amplifier and "B" Supply

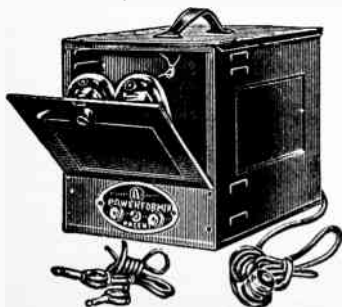
Reproduces the delicate inflections of the human voice and the finest shades of the violin with absolutely true fidelity and with volume from a whisper to a roar. With it you can enjoy the best music with the shading and expression of the original rendition by the far-off artist. You can easily distinguish the various instruments and voices in an orchestra or quartette. It puts the artist right before you and gives you an undistorted volume ranging from a whisper to a roar.

In addition to these fine qualities, it also supplies continual, silent and inexhaustible "B" supply for the entire set.

Case is made of metal 8x8x10 inches. A hinged door provides easy access to the tube. An attractive face plate contains an input and an output jack, control switch and pilot light. Louvers at sides provide ventilation. No adjustments, no controls. Flip the switch, and the Powerformer is at work.

Operates from any 60 cycle, 110 volt alternating current supply. Uses 1-UX216 or CX-316 B Rectifier Tube and 1-UX210 or UX310 Amplifying Tube.

**2B5674**—List, Less Tubes. Shpg. wt., 49 lbs., \$82.50. Net..... **\$53.65**



## POWERIZER UNIVERSAL

### A B C Supply and Power Amplifier

The Powerizers supply not only high voltage "B" and "C" current for their power tube but also for the complete receiver. They are designed especially for use with A. C. tubes and supply 1 1/2 and 2 1/2 volts for A. C. tubes UX226 and UX227.

The Powerizers require 1-UX210 or UX310 amplifier tube and 1-UX230 or CX330 full wave rectifier Tubes. With this unit and the necessary A. C. tubes you can make your set a completely light socket operated receiver, and in addition obtain great volume with pure reproduction. "A" plug connections, adapters and directions included. A. K. models include harness, adapters adapter plug and volume control. Use A. C. tubes type UX227 for detector; type UX226 for R. F. and amplifiers.

**2B5679**—Model PYX, 1 Universal, without Tubes, 110 volt, 40-50 cycles. List price, \$60.00. Net..... **\$35.28**

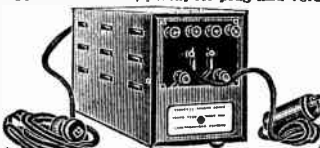
**3B5680**—Model PXY, 1 for 110 volt, 25-35 cycles. List, \$66.00. Net..... **\$39.60**

**3B5681**—A. K. Model for Atwater-Kent Models 20, 30, 33, 35. Without Tubes. List, \$68.00. Net..... **\$35.28**

**3B5682**—A. K. Model. For Atwater-Kent Model 32 Set without Tubes. List, \$62.00. Net..... **\$36.46**

Shipping weight all models, 40 lbs.

### Timmons Power Amplifier and "B" Supply



The combination amplifier and "B" Supply produces not only the power for the truest tone quality, but also supplies inexhaustible "B" voltage for the entire receiver. Very simple to use with any set. In addition to supplying 350 volts to the plate of its super-power audio tube, it also furnishes the high "C" voltage to prevent distortion. Uses one UX-216B or CX316B rectifier tube and one super-power UX210 or CX310 audio tube. For use on 105-120 volts, 50-60 cycles right from your light socket. Handsome metal case 11 1/4 in. long, 4 1/2 in. wide, 5 1/4 in. high.

Power amplifier only is same style but does not supply "B" current.

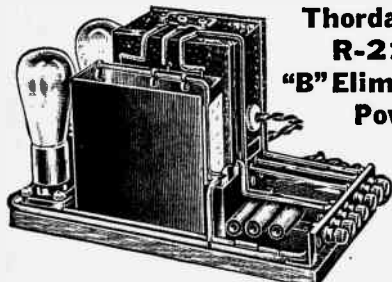
**2B5677**—Combination Power Amplifier and "B" Supply. Shipping wt., 40 lbs. List, \$70.00. Net..... **\$41.16**

**2B5678**—Power Amplifier only. Shipping wt., 40 lbs. List, \$45.00. Net..... **\$26.46**





# Socket Power Packs



**Thordarson  
R-210  
"B" Eliminator  
Power  
Supply**

Many new sets and kits now appearing on the market make use of the 210 type tube to secure more power and better reproduction. The 210 is capable of handling a very great amount of power without a trace of distortion. It is the ideal tube for replacement in the last stage of a super heterodyne type receiver. It improves the tone quality of the set so greatly that one can hardly distinguish the radio from the real entertainment. However, to obtain power, power must also be consumed. Therefore, batteries are not economical when this type tube is used. This power pack has been designed to meet the demand created by the 210 tube. It will furnish A, B and C power for the 210 and "B" power for the entire receiver. It is easily constructed from the parts supplied and will quickly repay its cost in the added pleasure of better reproduction and the saving in battery replacements. The following parts are supplied:

1 Thordarson power compact R210, 1 210 filter condenser block, 1 8,000 ohm fixed resistance, 2 10,000 ohm fixed resistance, 1 1,000 ohm resistance, 2 UX sockets, 7 binding posts, 1 binding post strip, baseboard, screws, wire, instructions.

The tubes required, but not furnished, are 1 316B rectifier tube and 1 374 regulator tube. **\$24.85**

**3B6312—List, \$41.70. NET.....**

R-210 Power Amplifier and "B" Supply contains, in addition to the above, 1 Thordarson R200 transformer, UX socket, Thordarson R-76 output transformers. Cases 1 316B tube, 1 374 voltage regulator and 1 210 power tube (not included).

**3B6373—List, \$56.20**

**\$33.55**

**NET.....**

## Thordarson Power Compacts

Power pack essentials for 171 and 210 power amplifiers. Consists of power transformer, filter chokes, filament winding and buffer condenser in one case with cord, plug and terminals. Specified for the 171 and 210 power packs.

**3B2032—R210 Power Compact. List, \$20.00.**

**YOUR PRICE \$11.88**

**3B2030—R171 Power Compact. List, \$15.00.**

**YOUR PRICE \$8.82**



## Dongan Power Supply Transformers

### Power and Filament Heating Transformers

Power supply transformers for Raytheon BA 350 mill. tube ABC power pack. For supplying A, B and C voltages to 201A tubes. 700 volts center tap 300-400 mills. 5 volts center tap 1/2 amp. 4 volts, 5 amp.

**3B6313—List, \$15.00. NET..... \$8.92**

Power supply transformers for Q. R. S. 400 mill. tube ABC power supply. 750 volts center tap, 300-400 mills. 5 volts center tap, 1 amp., 4 volts, 5 amp.

**3B6314—List, \$15.00. NET..... \$8.92**

Double choke for use with the Raytheon 350 mill. transformer or Q. R. S. 400 mill. transformer. Two chokes built into one metal case. For ABC power supply unit.

**3B6315—List, \$15.00. NET..... \$8.92**

### Filament Heater Transformers

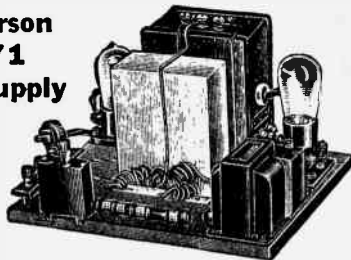
For UX-210 tube, 7 1/2 volts, 1 1/2 amp. center tap.

**3B6316—List, \$2.50. NET..... \$1.70**

Filament heater for UX-112 or UX-171 power tube. 5 volts, 1/2 amp. center tap.

**3B6316 1/2—List, \$2.50. NET..... \$1.70**

**Thordarson  
R-171  
Power Supply  
and  
Amplifier**



This outfit was designed for a dual purpose. There is a great demand for an extra stage of audio amplification to increase the great enjoyment of radio. There is also a great demand for a device for eliminating the constant replacement of dry "B" batteries. This device completely satisfies both of these requirements. It not only adds greater volume and superb tone quality due to the inherent qualities of the 171 tube but it also supplies A B C power for the 171 tube and B power for the entire receiver. It can be assembled by the most inexperienced in an evening's time. The following parts are supplied:

1 Thordarson 171 compact, 1 171 filter condenser, 1 171 tapped resistance, 2 UX sockets, 1 Thordarson 196 choke, 1 2 mf. filter condenser, 2 1 mf. by-pass condensers, 1 3 post terminal strip, 1 bakelite strip, 2 tip jacks, 1 9x11 inch baseboard, 4 binding posts, screws, wire.

Tubes required (not furnished) are 1 Raytheon BH tube and 1 171 power tube.

**3B6317—List, \$42.10.**

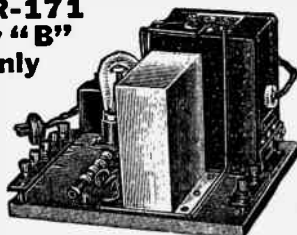
**\$24.95**

**NET.....**

## Thordarson R-171 Power Supply "B" Eliminator Only

For supplying complete "B" current to any receiver, also "ARC" voltage to 171 power tube. Consists of 1 Thordarson 171 compact, 1 171 filter condenser bank, 1 171 tapped resistance, 1 bakelite socket, 2 1 mf. filter condensers, one 2-post terminal strip with posts, one 5-post terminal strip with posts, screws, lugs, wire, 2 lengths spaghettii tubing.

**3B6318—List, \$33.80. NET..... \$21.28**



## Amertran Power Transformers

Amertran transformers have gained a reputation for their faithful unflinching service and performance. For years they have been standards in many circuits. The new power transformer is no exception to their wonderful record.

The Amertran Type P. F. 52 transformer was designed for use with the 216B tube to supply the high voltage necessary in an eliminator or power amplifier pack for the CX 310 type power tube. Also supplies proper voltage for the rectifier and power tube filaments. It is specified in many power packs including the Amertran Power Pack, LC-27 and Amertran Automatic Power Compact.

**3B6319—List, \$18.00. NET..... \$12.50**



**National "B" Eliminator  
is shown on Page 36 of this catalog.**

# Samson 210 Power Amplifier and B C Eliminator

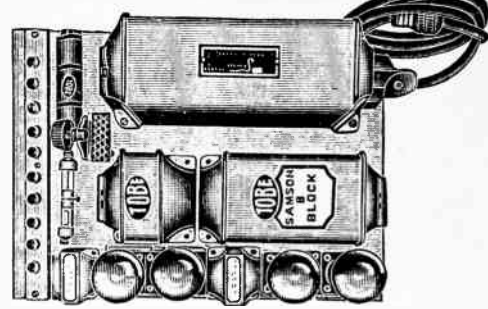
Samson's helically wound transformers further prove the superiority of Samson products. Large oversize cores and windings assure full current capacity and long hours of continuous service without overheating.

The new 210 power kit when built up supplies constant B and C voltage for the entire receiver and also provides one stage of push-pull power amplification. Constant voltage is assured by the use of the 874 regulator tube; high quality reproduction by virtue of the Samson Symphonic Push-Pull Transformers. They give volume and reproduction never before attained. The B voltages supplied to the set are: 45 to 67, 90, 135, and 180 volts. C voltages: —1½, —9 and —40. In addition the power amplifier stage uses two 210 tubes, the ABC power for them being supplied from the power block. This unit delivers 500 volts at 95 MA.

Parts supplied as follows: 1 Samson 210 Power Block; 1 Pair Samson Symphonic Push-Pull Transformers; 1 Samson "Tob" B and C Condenser Block; 1 Electrad Truvalt Variable Resistor; 4 Benjamin UX Sockets; 12 Eby Binding Posts; 2 Tob "B" Resistors; 2 Tob "C" Resistors; 12 Hole Binding Post Strip; wire; screws; baseboard.

The tubes required for this unit are 1-281; 1-874 and 2-210 type tubes (not furnished with kit). Ship. wt., 45 lbs. NET

Unsurpassed Volume and Tone



**3B6577—Complete Kit, List, \$103.30, \$65.19**

## Samson 718 Power Amplifier and B C Eliminator

This kit when built up supplies the following B voltages for the receiver: 45 to 67, 90, and 135 volts. C voltages: —1½ and —9 volts. In addition there is a stage of power amplification employing 2-171 type tubes in a push-pull circuit using Samson Symphonic Push-Pull Transformers. The ABC current for this stage is supplied by the power block which delivers 200 volts at 65 MA. While the volume obtained with 171 type tubes is not as great as with the 210 tubes it is ample for any reasonably sized room. The quality of reproduction is amazing, bringing out every note with a fidelity seldom approached.

Parts supplied as follows: 1 Samson "718" Power Block; 1 Pair Samson Symphonic Push-Pull Transformers; 1 Samson "Tob" B and C Condenser Block; 1 Electrad Truvalt Variable Resistor; 4 Benjamin Sockets; 10 Eby Binding Posts; 1 Tob "B" Resistor; 1 Tob "C" Resistor; 1 Baseboard; 10 Hole Binding Post Strip; Wire, Screws, etc.

The tubes required to operate this kit are: 1—type 280; 1—type 874; and 2—type 171 tubes. No tubes included. Shipping weight, 40 lbs.

**3B6578—Complete set of parts, List, \$91.90, NET, \$60.09**

## Samson Power Transformers

Samson's newest achievement. A new line of highest grade power transformers. Constructed in usual Samson style with oversize cores and windings. W111 not heat up even under overload. For 105-110 volt 60 cy. A. C.



- 3B6625**—30 Henry Choke, 30 MA cap. Shpg. wt., 4 lbs. List, \$5.00, NET, \$3.25
- 3B6626**—30 Henry Choke, 30 MA cap. Shpg. wt., 9 lbs. List, \$11.00, NET, \$7.15
- 3B6627**—30 Henry Choke, 120 MA cap. Shpg. wt., 9 lbs. List, \$12.00, NET, \$7.80
- 3B6628**—No. 132 Transformer. Supplies 200 volts at 80 MA; filament supply for 380 type rectifier tube and filament voltage for one or two 171 type tubes. Shpg. wt., 10 lbs. List, \$15.00, NET, \$9.75
- 3B6629**—No. 162 Transformer. 500 volts for plate of type 210 tubes and filament voltages for 381 tubes and for 210 type tubes. Shpg. wt., 10 lbs. List, \$19.00, NET, \$12.35
- 3B6630**—No. 232 Transformer. 200 volts. Also separate windings for supplying filament of 5-type 226 A. C. tubes; filament for two type 227 tubes; and filament of two 171 type tubes. Shpg. wt., 11 lbs. List, \$16.50, NET, \$10.73
- 3B6631**—No. 262 Transformer. 500 volts from 105-120 volt 60 cy. A. C. Also filament for 5-226 type tubes. 2-227 type tubes and 2-210 type tubes. Shpg. wt., 11 lbs. List, \$21.00, NET, \$13.65
- 3B6632**—No. 713 Power Block. Contains transformer supplying 180 volts at 50 to 80 MA, filament current for 1-380 type tube and filament for 1-171 type tube. Also contains two choke coils and a special B eliminator transformer. Shpg. wt., 18 lbs. List, \$24.50, NET, \$15.93
- 3B6633**—No. 718 Power Block. Supplies 200 volts at 80 MA. Contains 1 No. 132 Transformer and 2 No. 380 choke coils. Shpg. wt., 23 lbs. List, \$33.50, NET, \$21.76
- 3B6634**—No. 210 Power Block. Supplies 500 volts at 80 MA. Contains one No. 162 Transformer and two No. 380 Chokes. Shpg. wt., 23 lbs. List, \$37.50, NET, \$24.38
- 3B6635**—No. 463 Transformer. Supplies from separate windings fil. voltage for two type 227 A. C. tubes; five type 226 A. C. tubes, and two 171 or 210 type tubes. Shpg. wt., 12 lbs. List, \$14.50, NET, \$9.43
- 3B6636**—No. 217 Transformer. Supplies filament voltage for two 171 or 210 type tubes. Rating 20 watts. Shpg. wt., 9 lbs. List, \$12.00, NET, \$7.80

## Ward Leonard Vitrohm Resistors for Power Packs



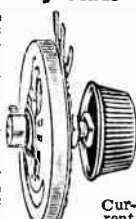
These resistors were designed especially to meet the requirements of the power pack for which they are specified. Their resistance ratings are accurate and permanent. Shipping weight, 1 lb.

- 3B6581**—Amer-Tran Power Pack Resistor. List, \$7.50, NET, \$4.83
- 3B6582**—For 85 MA B and C circuits. List, \$6.75, NET, \$4.39
- 3B6583**—For 85 MA ABC circuits. Tapped for plate voltages of 30, 67, 100 and 180 volts. List, \$7.50, NET, \$4.39
- 3B6584**—For use in 180 volt current Supply Unit. Tapped for 22, 45, 90 and 180 volts. List, \$1.75, NET, \$3.09
- 3B6585**—For 400 volt power pack circuits. Output voltages of 30, 45, 90, and 400 volts. List, \$6.75, NET, \$4.39
- 3B6586**—For QRS 400 mil. circuits. List, \$7.50, NET, \$4.88
- 3B6587**—For Thordarson 11-171 Power Compact. 13000 ohms tapped in steps of 2000, 3000, 3000, 3000, 2000. List, \$2.15, NET, \$1.38
- 3B6588**—For Thordarson R-210 Power Compact. 13000 ohms in steps of 2000, 2000, 2000, 7000. List, \$2.65, NET, \$1.72
- For Thordarson R-210 with Regulator Tube
  - 3B6589**—3000 ohms in steps of 1200 and 680 ohms. List, \$1.55, NET, \$1.01
  - 3B6590**—10000 ohms. Capacity 5 watts. List, \$1.25, NET, \$.81
  - 3B6591**—10000 ohms. Capacity 5 watts. List, 85c, NET, 55c
  - 3B6592**—Silver-Marshall No. 655 total 11350 ohms. List, \$2.50, NET, \$1.63
  - 3B6593**—Silver-Marshall No. 657 Resistor total 16800 ohms. List, \$5.00, NET, \$3.25

## Other Ward-Leonard Resistors Page 97

## Ward-Leonard Adjustats

The Adjustat is a wire-wound, vitreous enameled rheostat having 17 steps of resistance. It is essential in circuits carrying high current and requiring positive adjustment to be made and kept. Those familiar with Ward-Leonard resistances know that there are none better. Ship. wt., 8 oz.



	Current Ohms (MA)	Current Ohms (MA)	Current Ohms (MA)
3B6606	50 650	3B6607	6000 180
3B6601	1 4000	3B6608	1000 125
3B6602	2 3000	3B6609	2250 90
3B6603	6 1500	3B6610	7500 50
3B6604	20 1000	3B6611	10000 40
3B6605	30 800	3B6612	25000 20

List, Each, \$3.00. NET, EACH \$1.95

## Electrad Truvalt

The Electrad Truvalt is one of the best voltage controls that you can buy for power devices. Special mechanical construction gives it a very large radiation area preventing deterioration and assuring permanent accuracy. It is wire wound of nichrome wire exposed directly to the air for more radiation of heat. Permits potentiometer control and gives a metallic contact at all times with 30 exact readings of resistance. Shipping weight, 8 oz.



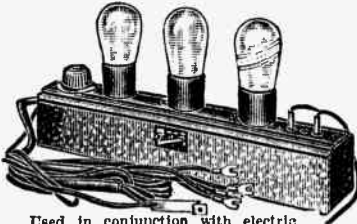
	Current Ohms (MA)	Current Ohms (MA)	Current Ohms (MA)
3P6615	500 224	3B6619	10000 50
3B6616	1000 158	3B6620	20000 35
3B6617	2000 112	3B6621	25000 32
3B6618	5000 71	3B6622	50000 22.5

List, each, \$3.50. NET, \$2.10



# Improve Old Sets, Make New Ones Better with These Latest Devices

## Na-Ald Truphonic Power Amplifier



Has established itself as one of the finest audio amplifiers. A completely wired unit incorporating a distinctive circuit, employing neither transformers, resistance nor impedance. Reproduces with greater fidelity and no distortion. Current control insures any volume desired. Attaches to detector output of old set in two minutes with no changes in wiring. Insures wonderful improvement in performance. Ideal for wiring into new circuits. Uses any style tube with power tube in last stage if desired. Inbuilt output unit protects speaker. Wire for connecting to detector output and batteries included.

**\$14.69**

Used in conjunction with electric pickup, without other part of radio set except batteries, it provides reproduction even surpassing the most expensive advertised electric phonographs. This unit, an electric pickup and a spring motor provide the essential units for an electric phonograph that you can make yourself. 1 1/2 inches long, 2 1/2 inches wide, 2 1/4 inches high. Ship. wt., 6 1/2 lbs.

**3B5784—List, \$25.00. NET.....**

## The Vari-Unit



By changing the setting of a multi-point switch inside the unit, and altering connections to fourteen binding posts at the back, the Vari-Unit can be made to serve as a stage of neutralized radio frequency, detector with or without regeneration, straight radio frequency, oscillator, station selector, superheterodyne first detector, wavemeter, etc.

Each Vari-Unit, measuring 7x7x5 inches, contains a .00035 variable condenser, a .00015 midjet condenser, rheostat, universal socket, grid leak, fixed condensers, multiple switch and sub-panel with mountings for interchangeable coils that cover the waveband from 80 to 2,600 meters. Those furnished regularly are for the broadcasting range of 200 to 550 meters.

Can be used with standard receivers either to sharpen tuning or to receive very long and very short waves. Converts any set (except reflex) into a loop-operated receiver with more selectivity and greater sensitivity. Shipping weight, 8 lbs.

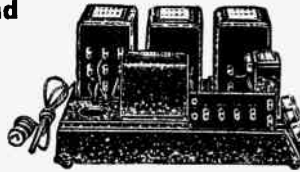
**3B1571—List, \$20.00. \$11.88 NET .....**

## National Power Amplifier and "B" Supply

Furnishes complete its own A, B and C supply as well as B supply for the balance of any radio receiver. For Raytheon B. H. tube and X-171 power tube. A National tone filter keeps D. C. out of speaker and matches its impedance to the power tube and protects speaker. 3 variable voltages ranging from 20 to 180 volts. Easily installed without rewiring. Brings any set up to date. Eliminates all "B" battery trouble. Furnishes high quality power amplification.

**2B6322—Type E 1 in kit form without tubes, List, \$68.00. NET.....**

**\$40.00**



**2B6327—Type E 1 completely assembled without tubes, List, \$76.00. NET.....**

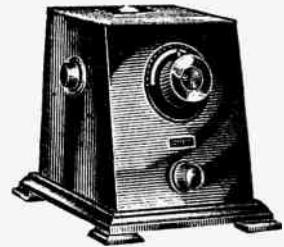
**\$50.10**

## Power Amplifier L-3

Complete three stage power amplifier and "B" eliminator. For H1-Mu tubes in the first and second stages and 171 power tube in the last stage. Raytheon B. H. tube used. Impedance and resistance coupling for perfect amplification. Easily installed with any set.

**2B6323—L 3 Kit without tubes, List, \$78.00. NET..... \$45.95**

**2B6324—L 3 completely assembled and wired without tubes, List, \$89.00. NET..... \$51.88**



## Walbert Penetrola 188 Times the Energy!

WOAI signal intensity of 11, on the audibility meter, jumped above 2000 with Penetrola—188 times as strong!

Selectivity with a vengeance! Any Penetrola demonstration will show you things like that on any set with any number or arrangement of stages. The wanted station is immensely intensified; interference is overwhelmed. So much volume is available for distance that a shorter aerial may be used. Your set is stopped from radiating, and is stabilized. It is needless to approach oscillation. And dial readings stay substantially the same. Principles hitherto elusive are now successfully applied. The widely heralded Isotard Circuit, latest Walbert development, is the foundation of Penetrola. Penetrola action, amplifies ahead of the detector, strengthening signals which would otherwise never be detected. Remember, signals too weak to detect cannot be amplified beyond the detector.

In a few moments any receiver, however costly, can be transformed with Penetrola.

**3B1525—Penetrola in Black Crystallite Cabinet, for Instant Attachment, List, \$35.00. NET..... \$22.35**

**3B1550—Penetrola Kit with Complete, Simple Instructions, without Cabinet, List, \$15.00. NET..... \$8.89**

## Steinite Interference Eliminator



A scientifically constructed coil for use in the antenna circuit, to eliminate interference and increase selectivity. Used on any set operating with an aerial. Attractive black case.

**3B2711—EACH..... 65c**

## Muter Interference and Static Eliminator

Black moulded Bakelite case, size 3 1/2 inches in diameter. Can be easily and quickly attached to set. Capable of tuning out nearby stations and gives results when other eliminators fail.



**3B2712—List price, \$2.50. \$1.47 NET.....**

## C. R. L. Station Selector Not a Wave Trap

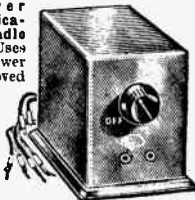


Tunes out short wave interfering stations. Increases selectivity of any set on stations close to locals. No adjustment. Simply turns on and off. Stations that broadcast close enough to each other to cause interference however may be separated with ease with the Central station selector. Simple to install, just connect it in series with antenna lead in.

**2B6325—List Price, \$1.00. NET..... 60c**

## Central Tone Amplifier

Adds a power stage of amplification to any radio receiving set. Uses new 171 or 112 power tube for improved tone quality and increased volume. Does not include a "B" eliminator. Can be used with a 90 set, any eliminator or with dry batteries. Tone filter protects the speaker.

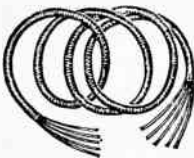


**3B6325 1/2—List Price, \$16.00, without tube,..... \$9.50**

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3



### Celatsite Silk Battery Cables



A neat thin flexible silk inclosed cable for making battery connections. Conductors insulated with celatsite covering in standard R. M. A. code colors. Very handy and useful, for it slips in between doors, windows, through small drilled holes, etc. Its flexibility makes it very practical.

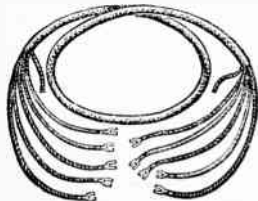
Art. No.	No. Conductors	Length Ft.	List Price	Net Price
2B2803	Five	5	\$0.90	\$0.50
2B2804	Six	5	1.10	.63
2B2805	Seven	5	1.25	.74
2B2806	Five	8	1.45	.80
2B2807	Six	8	1.75	.98
2B2849	Seven	8	2.00	1.15

### Celatsite Silk Conductor Cord

Same cord as used in Celatsite silk cable. Cable of any length may be made with this cord.

3B2844	25 ft., 5 wire.	Net....	\$2.25
3B2851	25 ft., 6 wire.	Net....	2.75
3B2843	25 ft., 7 wire.	Net....	3.25

### Radio Battery Cables



Made of flexible stranded conductors rubber insulated and covered with braid for A, B, and C Battery connections. Assembled with soldered lug terminals which prevent loose connections. Each conductor of separate solid color in accordance with R. M. A. code standards.

Art. No.	No. Con-ductors	Length Ft.	List Price	Net Price
2B2801	Five	10	\$0.50	\$0.23
2B2802	Six	10	.60	.29
2B2803	Seven	10	.70	.35
2B2830	Light	4 1/2	.85	.43
2B2831	Light	4 1/2	1.00	.50
2B2832	Ten	4 1/2	1.15	.58
2B2833	Five	10	1.25	.68
2B2834	Six	10	1.55	.85
2B2844	Seven	10	1.85	1.05
2B2845	Light	10	2.15	1.28

### Battery Conductor Cables

Same conductor as above cables without solder lugs. 25-foot coils. Make cable of any length.

3B2846	Five Conductor.	Per Coll.	\$1.10
3B2847	Six Conductor.	Per Coll.	\$1.25
3B2848	Seven Conductor.	Per Coll.	\$1.40

### Battery Cable Connectors



Made of flexible stranded wire with soldered lug terminals, for use in connecting Dry Cell Batteries, B and C Batteries.

Art. No.	Length	List Price	Net Price
3B2855	3-inch	\$0.04	\$0.55
3B2856	6-inch	.05	.65
3B2857	8-inch	.06	.70
3B2855	12-inch	.07	.78

### Battery Terminal Connectors



3B2821—Each, 19c  
Ten for.....\$1.78  
Fasten to post of any auto storage battery to adapt it for use with radio set.

### Non-Drip Hydrometer

The "non-drip" feature makes this the ideal radio or service station hydrometer. No more spoiled rugs and clothing because the acid cannot drip out. The "Can't Stick" float and small barrel assures easy accurate reading always. Rubber parts are of good quality rubber.

2B2815—List, \$1.00.  
Net.....70c



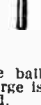
### Bargain Hydrometer

2B2816—List, 50c.  
Net.....26c  
Accurately graduated float shows you exact condition of charge in your battery. Tests both "A" and "B" batteries.



### S. O. S. Hydrometer

2B2817—List, 75c.  
Net.....49c  
Three balls show exact condition of charge. If all three float battery full. If one ball nearly charged, two sink charge is low, three sink complete discharged.



### Leader Hydrometers

Have accurate reading, beaded floats which are practically unbreakable, well made, dependable, accurate, large size is suitable for battery stations and for dealers' testing purposes, being of special, almost unbreakable construction with rubber shock absorber and practical, unbreakable beaded float.

2B2818—Large size.  
List, 75c. Net.....45c  
2B2819—Extra large size, service station model.  
List, \$2.50. Net.....\$1.45



### Hydrometer Floats

3B2820—List, 25c. Net, 17c  
No need to throw away the old hydrometer because of a broken float. Just remove the bulb from the top of the glass barrel and insert a new hydrometer float. Scale is graduated so it can be read at a glance.



### Rubber Battery Mat

2B2812—List, \$1.00.  
Net.....36c  
Set your battery on this mat and avoid any possible chance of injury to rugs or furniture. Takes largest size battery. Acid proof.



### Battery and Radio Clips

Positively superior to other type clip. Lead coating protects against corrosion.



Art. No.	Capacity	Length	Open	List Price	Net Price
3B2828	10 amp.	1 1/2 in.	1/4 in.	5c	\$0.37
3B2856	25 amp.	2 1/2 in.	1 in.	10c	.67
3B2857	50 amp.	3 1/2 in.	1 1/2 in.	20c	1.30
3B2858	100 amp.	4 1/2 in.	1 in.	35c	2.40

### Connecting Clips

For connecting lead wires to "B" batteries, binding posts on sets, etc.  
3B2824—Neat nickel finish. Dozen.....37c  
3B2826—Pee Vee, copper finish. Very small, compact size. Dozen.....37c

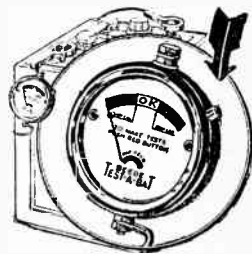


### CHARGE TESTER for Radio "A" Storage Battery

Tells instantly when battery is suitable for service; when to re-charge and when to discontinue the charging. The needle indicates the true workable condition of the battery. Simple to use. Eliminates handling of dangerous acid and all guess work. Every battery user needs one.



2B2835—List price, \$1.25.  
Net.....69c



### Test-A-Bat Storage Battery Tester

A meter designed to attach permanently to any storage battery and by simply pushing a button gives accurate reading of its condition. Non-corrosive lead terminals. Dial in three colors.  
3B2859—List, \$1.75. Net, each, \$1.05

### Jewel Battery Tester

2B2836—List, \$2.75.  
Net.....\$1.68



Reads 0 to 50 volts. Accurately constructed. Scale calibrated for close readings. Enameled black case with glass crystal. Flexible connected cord. A high quality precision instrument.

### Battery Meters

2B2837—0-50 volts.  
List, \$1.00. Net.....55c  
2B2838—0-100 volts.  
List, \$1.50. Net.....72c  
2B2839—Combination Meter. Reads 0-50 volts; 0-40 amperes. Tests "B" and "A" dry cells. Same style as meter above.  
List, \$1.50. Net.....75c



### Cable Markers

3B2813—List price, 25c.  
Net.....16c  
Markers easily read and convenient to attach.



Fit snugly to wire, allowing the wire to be drawn freely through a small opening. Packed in boxes of 11 containing the following markings: A+, A-, B-, C+, C-, B+ Det., B+ Amp., B+ RF, B+ PR, Ant., Grd.

### Battery Lead Tags

Metal tags for marking battery connecting wire. Once on, you always make connections correctly and quickly. Two tags of each of the following markings: B+ Det., B-, A+, A-, B+ Amp.  
3B2814—List, per set, 15c. Net price, ten sets.....64c



# Famous BRIGHT STAR DRY BATTERIES

**"A" "B" and "C" Units  
That Outlast All Others!**

High in voltage, full of fresh, active materials of the finest grade, Bright Star Batteries give long, dependable service. The manufacturers have been making quality batteries for over seventeen years and enjoy a splendid reputation and popularity everywhere. A feature of Bright Star construction is the "Bag Type" cell which insures an unusually long output of smooth, quiet "B" power. These batteries are made especially and only for Radio work and their perfected construction is the result of years of test, experiment and practical use in this field.

We offer the Bright Star line to our Dealers as the most profitable, satisfactory "B" Batteries in the market. They are nationally advertised and enjoy a quick sale at all times. Their supreme quality assures complete satisfaction for your customers. They build good will for the store. Their "eye" value is big—having beautiful, brilliant red cases with black border.



Cat. No.	Fact. No.	Kind of Battery	Shipping wt., lbs.	List Price	NET Price
2B127	71-17	4 1/2 volt C.....	1 1/2	\$0.60	\$0.39
2B128	15-03	22 1/2 volt Horizontal.....	2	1.75	1.14
2B129	15-50	22 1/2 volt Horizontal.....	1 1/2	1.50	.97
2B130	15-90	22 1/2 volt Horizontal.....	5 1/2	2.00	1.30
2B131	15-91	22 1/2 volt Vertical.....	3	1.75	1.14
2B132	15-95	22 1/2 volt Vertical.....	6	2.00	1.30
2B133	30-05	45 volt Horizontal.....	10 1/2	3.75	2.44
2B134	30-60	45 volt Vertical sup.pr.	16 1/2	4.75	3.09
2B135	30-95	45 volt Vertical.....	10 1/2	3.75	2.44

## "A" Battery

Supreme in quality and service for all standard dry cells Radio "A" use. "Bag type" cell construction is greatly superior to ordinary methods, giving longer life and greater recuperative power. Diameter, 2 1/2 in.; height, 6 1/2 in. Guaranteed shelf life, 12 months.  
2B121(6)—List, 45c. NET, EACH. **32c**



# EVEREADY



## Radio Batteries

We carry new, fresh stock of this well-known make battery ready always for immediate shipment. A long-life, hum-free battery in all sizes and styles to meet every radio need.

Cat. No.	Fcty. No.	Kind of Battery	List	Net, Each
2B1103	— 763—22 1/2 v. small, horizontal, plain.....	\$1.50	\$0.99	
2B1108	— 768—22 1/2 v. med., horizontal, plain.....	1.75	1.30	
2B1107	— 766—22 1/2 v. large, horizontal, variable.....	2.00	2.50	
2B1104	— 767—45 v. large, horizontal, variable.....	3.75	2.50	
2B1106	— 764—22 1/2 v. med., vertical, plain.....	1.75	1.18	
2B1125	— 772—45 v. large, vertical, plain.....	3.75	2.50	
2B1109	— 770—45 v. ex. large, vertical, plain.....	4.75	3.29	
2B1105	— 486—45 v. new ex. large "Layer-Bilt" heavy duty, plain.....	5.00	3.46	
2B1101	— 771—4 1/2 v. variable "C" battery.....	.50	.35	
2B1100	— 6—1 1/2 v. dry cell "A" battery.....	.50	.35	
2B1102	— 773—7 1/2 v. variable "C" battery.....	.85	.56	



## Pow-R-Ful "B" Batteries

**Reliable Batteries at Amazingly Low Prices**

Never in the history of Radio has there been such value in "B" Batteries. Another example of how Barawik helps the Dealer to bigger profits!

Pow-R-Ful batteries are made from the best materials obtainable and are subjected to numerous tests at every stage of their manufacture.

The use of a special multi-ply box helps to protect the battery from external moisture and also lessens the possibility of leakage of corrosive fluid which might injure furniture or polished floors.

The cells of each battery are incased in a solid block of insulating material which thoroughly insulates each cell, thereby preventing internal short circuits.

Pow-R-Ful "B" and "C" batteries are guaranteed against defective materials, faulty workmanship, also guaranteed to give satisfactory service when used with standard Radio apparatus that is in good working condition. Batteries are all manufactured by automatic machines, using the best materials obtainable, producing batteries of extremely uniform quality.

All Pow-R-Ful models are made in the upright or vertical style.

No.	Kind of Battery	List	Net Price
2B122	— 45 v. "B" large heavy.....	\$4.50	\$2.16
2B123	— 45 v. "B" Standard.....	3.75	1.65
2B124	— 24—22 1/2 v. "B" Standard.....	2.00	.82
2B126	— 4 1/2 v. "C" large tapped.....	.40	.23

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3



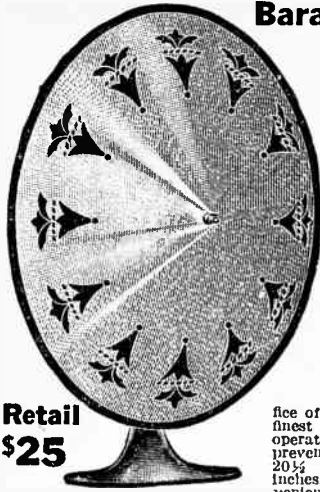
## Barawik Supertone Cone

**Our Greatest Cone Value!  
Ideal for Power Tube Use**

A real Barawik triumph! We combed the market for months to find for our dealers a cone of superior quality which they could push as a leader and on which a big margin of profit might be made. Many makes and models were tested. This splendid cone was finally selected for its exceptional performance. It is without question the biggest value ever offered in a fine cone speaker.

It embodies all the latest scientific developments in cone speaker construction. It recreates with amazing fidelity from the soft murmur of the bass through the mellow beauty of intermediate notes to the high treble of the violin. Its purity and faithfulness of reproduction are a revelation. It will stand unusual volume without distortion or blasting and at no sacrifice of the sweet tone quality. Very finest quality unit insures perfect operation indefinitely. Heavy base to prevent tipping. Diameter of cone, 20 1/2 inches; height over all, 22 3/4 inches. Has handle on back for convenience in handling. Beautifully finished and embellished in neutral brown shade with contrasting decorations. Has about 5 foot connecting cord.

Get behind this speaker! It will make friends for the store as well as prove a great source of continuous profit! Shipping wt., 32 lbs.  
**2B5108—List, \$26.00. \$13.59**  
Net, each.....



Retail  
**\$25**

**\$13.59**



A new and unique design of a speaker. It is a beautiful accurate library globe that should be a part of your home furnishings—and of your education. By simply raising upper half of globe (as shown in smaller illustration) it becomes a speaker of unusual merit. Globe turns freely on its axis, is clearly marked, beautifully colored and can be easily cleaned with a damp cloth. The purity of tone, the perfect reproduction of the full range of sound will amaze you. The tone may be modulated by opening or closing the upper half of globe—a feature found in no other speaker. Comes complete with 20 feet of cord. Shipping wt., 25 lbs.

**2B5177—Retail price, \$35.00. \$20.58**  
Your cost.....

### R. F. I. Cone Speakers

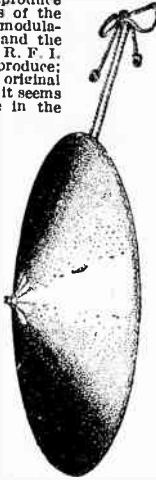
These speakers reproduce the full deep notes of the bass, the delicate modulation of the violin and the piano realistically. R. F. I. does more than reproduce; it recreates the original speech or music till it seems that you must be in the studio.

The blending of a striking design in dull red gold with the soft brown of the cone and the bronze of the mounting make a strikingly beautiful effect.

#### Wall Model

Hangs from wall suspended by handsome cord. Cone diameter 10 inches. Decorated in blue and silver. An especially beautiful and popular cone speaker. Shipping wt., 12 lbs.

**2B5116—List, \$16.50. \$9.95**  
Net..



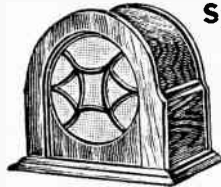
#### Table Model

A table speaker with felted base. Cone diameter 17 inches with brown scroll decoration.

Metal base in old gold finish. Shipping wt., 15 lbs.  
**2B5117—List, \$22.50. \$14.50**  
Net..



### Burns Cabinet Cone Speaker



Reproduces the entire musical scale with a uniformity of full, rich, pure tones. Cabinet is only 12 1/4 inches high. Beautifully grained walnut finish and a speaker that has unlimited power of reproduction. Shipping wt., 15 lbs.  
**2B5118—Retail, \$22.50. \$13.23**  
Net.....

### The Burns Horn An "Old Reliable"

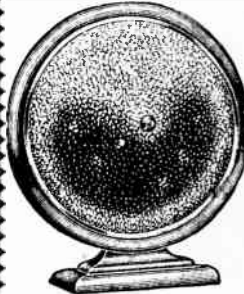
Of generous proportions, gracefully shaped and designed along scientific lines. The flared rim of handsomely polished black pyralin; practically unbreakable. Adjustable unit. Shipping wt., 13 lbs.

**2B5101—List, price, \$22.50. \$13.23**  
Net..



### The New R. F. I. Disc Speakers

Exceptionally pleasing in tone, covering with excellent volume the entire musical scale, these Disc Speakers represent a value which we believe is equalled by none others. The full mellowness of the low frequencies is emphasized by such instruments as the bagge, tubas, tympani and the pedal notes of the pipe organ.



#### Cone Type

Equally pleasing is its appearance, as the dark green wood composition diaphragm is set off by an artistically designed frame and base finished in rubbed ebony. Height, 15 1/2 inches; diameter, 13 3/4 inches. Shipping wt., 15 lbs.  
**2B5141—List, \$12.50. \$7.50**  
Net.....

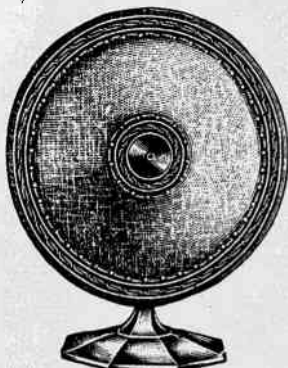


#### Cabinet Style

A handsome matched walnut cabinet, combining the best in acoustical engineering with splendid decorative taste. Equipped with the R. F. I. Semi-Balanced Armature Disc Unit. Over all dimensions: Height, 14 inches; width, 16 inches; depth, 6 inches. Shipping wt., 26 lbs.  
**2B5140—List, \$25.00. Net, \$15.00**



# Famous UTAH Speakers



**Cone**

Contains the famous Utah unit, universally accepted as one of the best. Finest cone paper, with protected edge and finished in a tasteful design. A quality cone at a remarkably reasonable price. Height, 15½ inches. Shipping weight, 8 lbs. **2B5125**—List, \$10.00. Net, **\$5.88**

## Utah Cabinet Speaker

Their attractive appearance together with the wonderful clarity and fidelity in reproduction makes these speakers stand head and shoulders above any other type of speaker. The cabinet is genuine walnut veneer beautifully finished. They are equipped with 9 foot air column tone chamber and Utah Deluxe Unit.



Utah No. 100.  
**2B5184**—Size 36 inches high, 27½ inches wide, 17 inches deep. Weight, 100 lbs. List, \$70.00. Wholesale..... **\$41.16**

Utah No. 101.  
**2B5185**—Size 36 inches high, 27½ inches deep. Made to take Philco and other similar power units. Weight, 100 lbs. List, \$75.00. Wholesale..... **\$44.10**

## New Utah Super Flex

Tones come out of base instead of top; very mellow and harmonious. Good volume. Height about 9 in. Can be used in many portable sets. Large Deluxe Unit. Shipping wt., 3 lbs.

**2B5182**—List, \$10.00. Net..... **\$5.88**

## Utah Horn Speaker

A popular gooseneck model. Scientifically designed to reproduce the entire scale range in a true natural way. For clarity and distinctness Utah is unsurpassed. This is beyond doubt one of the finest horns ever made. Shipping wt., 12 lbs.

**2B5128**—List, \$22.60. Net..... **\$13.23**



## Utah Drum Speaker No. 16

One of the most strikingly beautiful drum speakers made. Fitted with famous Utah Unit, generally considered the best. Soft brown finish. Height 16½ in., width 14 in., depth 4½ in. Shipping wt., 11 lbs. **2B5183**—Retail, \$16.00. Net..... **\$9.40**



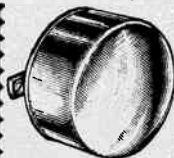
## Utah Screen Speaker

Represents beautiful fire place screen. Has horn with 84-inch air column equipped with Utah Deluxe Unit—unsurpassed for tonal qualities. Made from 5-ply American Walnut, beautifully finished. Removable grille. Height 40 in., width 28 in., depth overall 17 in. Shipping wt., 30 lbs. **2B5157**—Retail, \$100.00. Net..... **\$58.80**



## Utah No. "30" Cone

Carved with peacock grille design. Deep resonant tones. New design. Very attractive appearance. Natural finish walnut. One of the most beautiful as well as efficient cone speakers ever made. Height, 18 inches. Shipping wt., 15 lbs. **2B5188**—Retail Price, \$30.00. Net..... **\$17.64**



## Utah Piano Speaker

Attaches to sounding board of Baby Grand or Upright Piano. Produces marvelous tone quality. Equipped with 25-foot cord. Has proven instantly popular. Shipping wt., 3 lbs. **2B5192**—List, \$10.00. Net..... **\$5.88**

## All American Lorel Model

Incorporates the latest loud speaker refinements. Correctly balanced with sounding-board and sounding-chamber to give purity to ALL tones. A tone filter is wired inside the cabinet giving additional assurance of superior tone qualities with any set. Shipping wt., 15 lbs.



**2B5150**—Retail Price, \$26.00. Net..... **\$14.70**



## R. F. I. Balanced Oval Cone Speaker

A small cone gives high notes only, a large cone favors the low notes. In this wonderful speaker the long side of oval stresses the low notes, the short side stresses the high—a perfect balance. Renaissance design in statuary bronze finish, 20 in. wide, 20 in. high. Shpg. wt., 10 lbs. **2B5158**—List \$25.00. Net..... **\$15.00**

## Ship Model



## Vitalitone Cone

Beauty and quality are completely harmonized in this new ship model Vitalitone loud speaker.

The frame and stand, which support a standard size cone, are executed in bas relief and finished antique polychrome coloring.

Powerful, responsive, sensitive, and non-buzzing. Adjustable and of sturdy construction and will take 350 volts power input. Shipping wt., 12 lbs.

**2B5191**—Retail Price, \$12.60. Net Cost..... **\$7.60**

# BARAWIK Trutone Drum Speaker TYPE 100



This magnificent speaker is of advanced type, employing new principles of reproduction. The tones are low pitched, soft, round, melodious, full and natural regardless of the amount of volume. The horn, which has a tone travel of fully 54 inches, is scientifically scaled to produce proper amplification and perfect flow of natural tonal waves. The throat is bell shaped which is recognized by musical authorities as being ideal. The Trutone is also a beautiful piece of furniture, chaste in design with dull natural walnut color finish. Semi-floating armature type giant unit. Front is covered with gold cloth mesh. Height, 15 1/2 inches; width, 12 inches; depth, 5 3/4 inches. A sure sale with every demonstration. Shipping wt., 18 lbs.

2B5161—List, \$25.00. NET..

**\$15<sup>00</sup>**

## Temple Drum Speaker

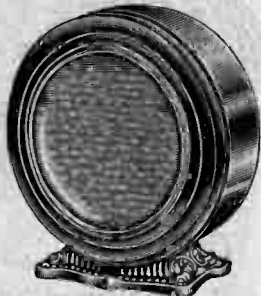


Entirely new and better! 4 1/2 Foot Air Column! Reproduces with a faithfulness and fullness that is a revelation. Fitted with Baldwin balanced armature unit, picks up and amplifies the weakest signal to full and natural strength. Misses nothing from the faintest whisper to an entire orchestra. Tone chamber is of a new composition substance securely bound with metal. Brown crackle finish. Shipping wt., 20 and 26 lbs.

2B6329—13-inch Drum. \$17.05  
List, \$29.00. NET.....

2B6330—18-inch Drum. \$28.52  
List, \$48.50. NET.....

## The QUAM Loud Speaker



Employs a new principle—the “stretched reed,” just like a human vocal cord. Gives much wider range of accurate tone reproduction—covers the entire musical scale like no other speaker. Free from blasting, matchless in its beautiful recreation of the highest violin tones to the deepest tones of the pipe organ. Height, 14 in., width 13 in. Rich bronze finish, with wire net grille. Shipping wt., 11 lbs.

2B6331—List, \$17.50. **\$10.29**  
NET .....

## Patent Cone



The Patent Cone Speaker is correct from every engineering standpoint with a balanced armature, 17-in. double Cone and specially selected brown grained prepared paper. Rigidly constructed and so designed as

to take extreme power amplified signals and yet be sensitive enough to respond to weak signals. The Patent Cone is beautifully proportioned, presenting a harmonious, blending appearance wherever placed. Plug included. Ship. wt., 15 lbs.

2B5151—List price, \$22.50. **\$13.39**  
NET .....

## CONSOLE REPRODUCERS Equipped with Genuine New-

combe-Hawley ORTHO-TYPE 86-inch Travel Tone Chamber SYMPHONIC CONSOLE



Newcombe-Hawley Reproducers have a nationwide reputation as being the very finest, most highly developed radio reproducers made. They are perhaps the only radio speakers that actually reproduce all the notes of the scale with absolute fidelity. This console incorporates the N-H. 86 inch tone chamber complete with Baldwin C. C. G. unit. Made from finest walnut in rich antique lacquer finish. This console provides space for 1x21 inch or smaller panel size radio set with all batteries, etc. Height, 44 1/2 in.; width, 36 1/2 in.; depth, 16 1/2 in. Shipping wt., 100 lbs.



2B5171—List, \$125.00. **\$73.50**  
NET .....

## The Cantata Console

Large enough top to provide space for almost any table radio set. Ample room for batteries and units. It contains the remarkable 86 inch tone travel Newcombe-Hawley chamber with latest matched Nathaniel Baldwin unit. Unexcelled for beautiful, faithful reproduction. Height, 34 in.; width, 36 1/2 in.; depth, 16 1/2 in. Shipping wt., 90 lbs.

2B5172—List, \$75.00. **\$44.10**  
NET .....



The Newhall



Pierson-Newcombe-Hawley

## ORTHO-TYPE SPEAKER

Beautiful cabinet in authentic Duncan Phyfe period design of choice mahogany in rich Adam brown finish. Houses famous Newcombe-Hawley Orthotype Speaker and powered by Nathaniel Baldwin unit. This wonderful speaker stands in service in our store and amazes all who hear its life-like, powerful reproduction. Width, 30 inches; height, 30 inches; depth, 18 inches. Space beside horn (18 inches deep) provides space for batteries, etc. Shipping wt., 85 lbs.

2B5173—List, \$65.00. NET. **\$38.22**



## Acme Speakers

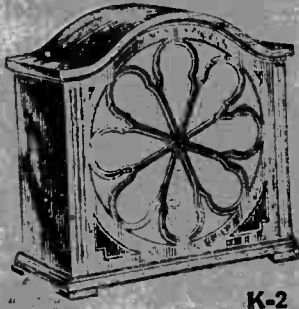


K-1

### Double Free Edge

Note: tone and inflection are brought out as never before. Cones are 14 inches in diameter. Direct current for power is all self-energized and need not be built into. In some power tubes up to 25 MA can safely be used. Allowance for power factor can be directly converted to power factor on the dial meter. Net 1 lb. finished in tan. Shipping wt. 15 lb. **2B5147** Retail price, \$26.00.

**\$14.70**



K-2

### Cabinet Style

Same type K-1 except enclosed in mahogany cabinet. Matches almost any of M's be set upon the cabinet or on a separate stand. Without the usual appearance. Shipping wt. 12 lb. **2B5148** Retail price, \$38.00.

**\$22.80**

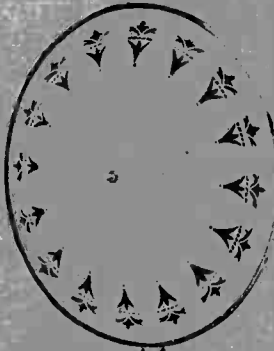
### Single Free Edge Cone

11 inches diameter. Plate current up to 25 MA can be safely used, providing great volume. Suitable for wall mounting by removing base and adding feet and cord. Volume adjustment. Net 1 lb. finished in green bronze. Shipping wt. 10 lb. **2B5149** Retail price, \$14.60. Net

**\$8.53**

## Barawik 36-Inch Cones

The Ideal Speaker  
For Use With  
Power Tubes



Type  
AW



the finest material and is perfectly coordinated in all the parts to bring a faithful and fidelity of reproduction that is a delight to the most critical listener.

Acoustically perfect heavy cone paper. Artistic design in a plain material.



Type  
WT

### Pedestal Type

Height 46 1/2 inches, with a highly polished mahogany Adam brown finish. Cone 36 inches in diameter, substantially built and artistically tipped. Long extension cord. Shipping wt. 100 lb. **2B5186** Retail price, \$46.00. Net, \$22.90

**\$22.90**

### Wall Type

Finished with a bronze fancy hanging cord. This type is coming into wide popularity and we urge our Dealer to get behind it. Available in the harvest of profit in store from this 36 inch diameter. Shipping wt. 95 lb. **2B5187** Retail price, \$40.00. Net, \$21.10

**\$21.10**

### Windsor Fasel Cone

In construction, quality of reproduction and extremely low price, this novel speaker surpasses any other yet offered. Cone is 22 inches in diameter mounted on panel supported by an ornate wood strip on top. Can be hung on wall or stood upon any flat surface. Contains Windsor loud speaker unit noted for its extreme clarity and fidelity of reproduction. Shipping wt. 15 lb. **2B5159** Retail price, \$15.00. Net, \$8.82

**\$8.82**



### WINDSOR ORTHO-TYPE CONSOLE

An ortho-type reproducer with an 80 inch long air column and Baldwin rival unit built into an attractive design on a rich walnut finish. Provides every advantage of the latest reproduction development at moderate price. 30 inches long, 17 inches wide, 29 inches high. Space for battery and power unit. 11 inches high, 26 inches wide, 11 inches deep. Shipping wt. 60 lb.

**2B5174** Retail price, \$40.00. Net, \$23.52

**\$23.52**



### Windsor Console Cone

A combined radio table, battery cabinet and a fine 22-inch cone speaker all in one. The cone is of advanced design, famed for its wide tone range and great volume. Top is 30x17 inches, and cabinet 29x17 inches high. Rich walnut finish. Shipping wt. 70 lb. **2B5160** Retail price, \$29.00. Net, \$17.05

**\$17.05**

### Na-Aid Midget Cone Speaker A Great Novelty



Ten of thousands have been sold in a few months. A novelty that appeals.

Works surprisingly well. A speaker and five good tone quality with fair volume. Adjustable. Includes only decorative addition to the regular speaker. Shipping wt. 2 lb. **2B5169** Retail price, \$2.00. Net, \$1.25

**\$1.25**

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

### AMPLION—World's Fore-most Speaker Line

Here is perhaps the most distinctive and beautiful speaker ever made. New process embossed walnut paneling, attractively curved, combining grille-front and back. Height, 22 inches. Cone, 16½ inches. New balanced armature unit with straight bar magnets of finest English Tungsten steel. A real masterpiece. Shipping wt., 22 lbs.

**2B5179—List, \$67.50. \$39.69**  
Net, each.....

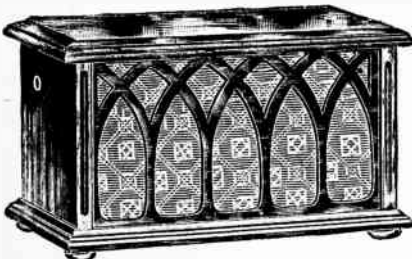


### AMPLION PATRICIAN Cabinet Speaker

Assembles a remarkable 48-inch air column, with standard AMPLION unit, in a richly carved mahogany cabinet—18 in. x 12 in. x 9 in.—of softened contours and graceful old-world beauty that harmonize perfectly with modern luxurious home appointments. The Patrician is non-directional; to the famous AMPLION sensitivity and clarity, it brings a new softly diffused mellowness of tone that makes this instrument the choice of the connoisseur wherever heard. Shipping wt., 25 lbs.

**2B5178—List, \$50.00. \$29.30**  
Net.....

# The CELLO Talker



duced. Each and every instrument in band and orchestra distinctly. Case is of mahogany in dull rich dark natural finish. Only a fortunate arrangement permits us to offer this \$27.50 retail value Cello speaker at such an amazingly low price. Shipping wt., 15 lbs.

**2B5170—List, \$27.50. Net wholesale.....**

**\$27.50 Value**  
**Amazing Bargain!**

Gives the true ortho- phonic effect. The combination of splendidly balanced unit with long tone travel chamber and the case acting as an acoustic amplifier gives a powerful reproduction of striking naturalness. The deep low notes of the organ and bass as well as the highest soprano vocal notes are faithfully reproduced. Each and every instrument in band and orchestra may be recognized

**\$4.65**  
Net

### AMPLION Cabinet Speaker



Case in two-tone mahogany, 14 in. x 14 in. x 9 in. Shipping wt., 15 lbs.  
**2B5162—Amplion Cone. \$20.58**  
List, \$35.00. Net.....

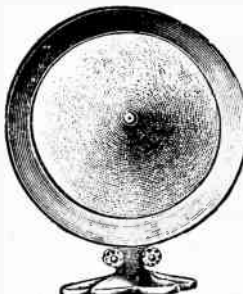
### AMPLION Dragon Speaker

An old-time favorite! One of the most efficient horns ever made. Beautiful mahogany paneled bell, 20½ in. high, 14½ inch diameter. Crystalline enameled. Bi-polar type unit—adjustable. Shipping wt., 16 lbs.

**2B5180—List, \$22.50. \$24.99**  
Net, each.....



### AMPLION Lion Model

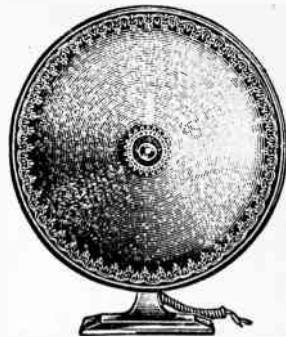


straight bar magnets of finest grade English Tungsten steel. Shipping wt., 20 lbs.

**2B5181—List, \$25.00. \$14.70**  
Net, each.....

The result of nearly two years deliberate, intensive experimenting. Totally different in appearance, construction and results—loud, clear, sensitive and realistic in tone—complete in musical range.

### Trimm Speakers

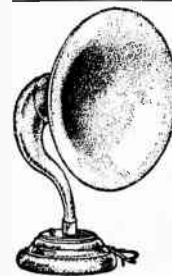


Built on the balanced armature principle, it is particularly well adapted for operation with power tubes and will take higher voltages and maximum amplification without blasting or distortion. The edge is fully protected.

**2B5104—Model 38 Concerto Grand. Diameter Cone, 17 inches. Shipping wt., 14 lbs. List, \$16.00. \$9.41**  
Net.....

**2B5119—Model 28 Concerto. Diameter Cone, 14 inches. Shipping wt., 11 lbs. List, \$10.00. \$5.88**  
Net.....

### Concert Model 80



For clearness, distinctiveness and perfect harmonious blending of tonal values, Trimm Concert has never been surpassed. Adjustment controls tone and volume. Horn.

22 inches high; 15-inch bell. Trimm No. 30 Giant Unit. Finished in Black. Shlp. wt., 12 lbs.

**2B5106—List, \$25.00. \$14.70**  
Net.....

### Model 90

Extra large diaphragm, full range of tone with fidelity and beauty. Stand is 19½ inches high, has 12 inch bell and Trimm adjustment feature for tone and volume. Shipping wt., 10 lbs.

**2B5107—List price, \$17.50. Your Net cost \$10.29**



### TRIMM Entertainer

**\$17.50**

### Model 125

Standard 18 inches high, 12-inch bell, of genuine Vulcanite. Great volume, beautiful tone, no blasting, distortion or harsh overtones. Lifetime guarantee. Shipping wt., 8 lbs.

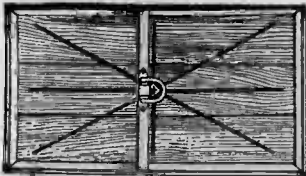
**2B5105—List price, \$10.00. Net... \$5.88**



### TRIMM Home-Speaker

**\$10.00**





## Balsa Wood Reproducer Make It Yourself

**Nature's Sounding Board.** The most radical development in loud speakers—one of the finest reproducers of voice and music—since the birth of radio. Sounding medium is made of a thin board of Lata Balsa Wood—a product peculiarly adapted to this purpose. Its natural period of vibration is negligible which means that only the fundamental wave train is reproduced with no harmonics. No other speaker is so perfect in this respect. It reproduces frequencies lower and higher than are audible to the human ear. All parts except unit are included in kit. Assembly is easy. Surface can be decorated if desired. Can be hung on wall, used as a screen, etc. Shipping wt., 5 lbs.

- B5163**—13x24 inches. List, \$5.10  
8.00 Net.
- B5164**—21x36 inches. List, \$6.37  
\$10.00 Net.
- B5166**—Balanced armature unit. List, \$8.00. Net, \$5.10

## Build It Yourself ENSCO 3-ft. Cone Kit

Complete parts for constructing a marvelous giant cone speaker. Faithfully reproduces all broadcast reception with tremendous volume, yet clear and undistorted. Enesco unit, cone speaker, paper metal Apex and extension pin, wood brackets included. Easy to build. Shipping wt. 5 lbs.

**B6328**—List, \$11.00. Net, \$6.95

## 3-Foot Cone



**Build It Yourself**

Outfit consists of two sheets Alhambra Fon-O-Tex cone paper, pair Back Ribes, Penn Unit mountings. Can of Special Ambroid Cement and Penn Cone Speaker Unit with necessary bolts and washers. This unit is of a most advanced, perfected type, adjustable to any set output. Extremely sensitive and of unusual power. With the complete instructions, it is easy to build. Endorsed by such distinguished technical editors as Cockaday, Gurney, Hurd, Casey and others. Shipping wt., 6 lbs.

**2B5155**—Outfit complete. List, \$13.50. Net, \$8.22

# 3-FOOT CONE

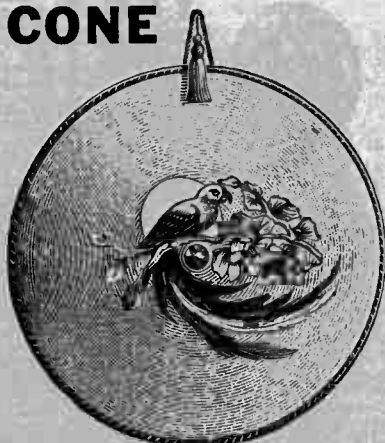
## Make It Yourself

Thousands of fans everywhere are taking up this fascinating task of building a giant cone to go along with their regular speakers. All who build it get endless additional enjoyment and thrill from the realization that it is the result of their own handiwork.

This is a real quality, easy to build cone Kit at a fair price. When completed it hangs on the wall and provides that booming, resonant reproduction so desired in large cones.

Each Kit contains: 1 fine speaker unit; 1 sheet heavy cone paper cut to shape, with edging braid; 1 tube cement; 15-foot connecting cord; ornamental cut-out design which may be cemented on face of cone if desired—and complete instructions for assembling. Anyone can make it in a short time! Carefully packed. Shipping wt., 5 lbs.

**2B5167**—Retail price, \$10.00. Your Net Cost, \$4.10



## Beautiful Grecian

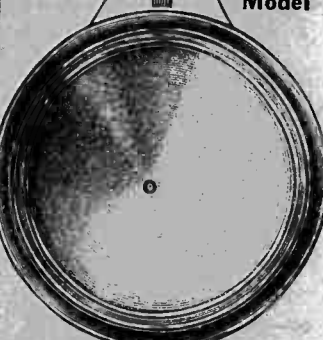


## Cone Speakers Cathedral Model

Original in design, something new and different. Covers the entire scale with absolute fidelity and beautiful modulation. Height, 17 inches; cone diameter, 15 inches. Shipping wt., 25 lbs.

**2B5138**—List, \$30.00. Net, \$17.64

## Stevens Speaker Model Wt-27



Smooth beaded circular frame, 22 inches in diameter, finished in hand-rubbed Jasper brown mahogany, firmly holds the correctly designed sounding board. The famous Stevens Armature Unit, assisted by a high quality output transformer, constitutes the electrical equipment of this speaker. Silk picture cord with rosette and tassel. Also long attachment cord. Shipping wt., 18 lbs.

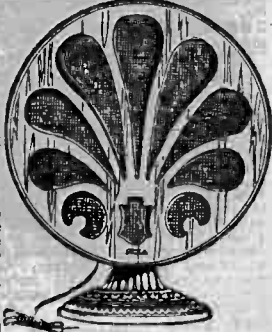
**2B5175**—List, \$45.00. Net, each, \$26.46

## Thorola New Model Cone Protected Dual Diaphragm



The low tones resonate clearly from the flat surface of the diaphragm; the center cone reproduces the high and middle tones with marvelous purity and distinction. Here is a dual principle that exactly reproduces every sound wave. Gives the finest radio ever known with cone speakers. The graceful grille with Florentine surface charms and rests the eye. A beautiful work of art harmonizes with any furnishings. Rich walnut and old gold finish. Shipping wt., 16 lbs. 17 in. high, 14 in. wide.

**2B5144**—List price, \$25.00. Your Net Cost, \$14.70



WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

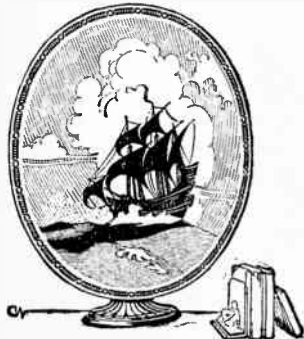
# YAR

## True Tone Pedestal Speaker



An entirely new, unique design which has become instantly popular. Designed on proved acoustic principles. Reproduces high, clear treble or deep bass with equal fidelity. Has full 27-inch tapered tone travel column. Scientific baffle plate arrangement gives the true orthophonic effect. Finest quality unit will handle 200 volts plate voltage without distortion. It is all metal in rich brown cracked lacquer finish—matches most sets. Stands 41 inches high, 9-inch heavy base—won't tip. Wire mesh grille backing. Twenty feet silk insulated power cord permits placing speaker anywhere in room. Nationally advertised—a fast seller. Shipping weight, 45 lbs.

**2B5100—List, \$35.00.**  
**NET, EACH ..... \$20.58**



## TIMMONS Eccentric Cone

This speaker utilizes to the fullest extent, the high power output of modern receivers. Scientifically correct in shape and principle, for the natural undistorted reproduction of the entire range of tone frequencies, it will handle the maximum output of any receiver indefinitely. Attractively decorated. Overall-size is 28x22½ inches. This one model is adaptable for either table or wall with no additional equipment. Shipping weight, 15 lbs.

**2B5168—Retail price, \$30.00. NET, EACH..... \$17.64**

## Temple Comparator

Invaluable for demonstrating Loud Speakers, comparatively. By turn of knob it switches from one horn to another without loss of a note, thus demonstrating their comparative tone in a definite practical manner. Capacity four speakers. About 3½ inches high and in diameter. Shipping weight, 8 oz.



**2B2553—List, \$3.50.**  
**NET, EACH ..... \$2.06**

## Victor Horn

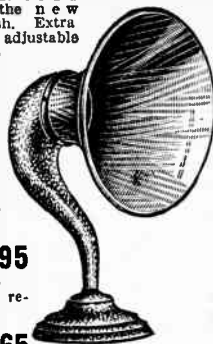
A beautiful loud speaker in the new cracked lacquer finish. Extra large size, adjustable unit. Gives volume and tone equal to many speakers selling at double the price. Bell diameter, 13½ inches. Height, 23 in.

**2B5146—Retail value, \$20.00.**

**NET.. \$6.95**

**2B5152—Smaller size, retail value, \$12.50.**

**NET.. \$5.65**



## Genuine BALDWIN Speakers

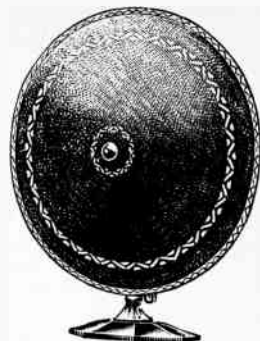
**3B5129—Concert Standard model. List \$25.00.**

**NET.. \$14.70**

**3B5130—Concert Grand, List \$25.00.**

**NET..... \$20.58**

Shipping weight, 10 lbs. One of the finest speakers made. Built on a patented principle which insures greatest volume without distortion or chattering. Horn is of a special non-vibrating composition.



## The New R. F. I. Cone Speakers

The new R. F. I. Cone Speakers represent the final development in cone speakers. The data from years of research has been consolidated into the design of these fine speakers. Their reproduction is truly something to marvel about. Not all of the fine qualities have been concentrated in the unit. The cone itself is beautifully designed and will match the finest surroundings. The cone is of the free edge type bound to another cone which forms the back of the speaker. The cone is of the proper design and proportions to reproduce the perfect vibrations arising in the unit. All notes are reproduced with the same fidelity giving rich, warm and lifelike tones. To aid in making the speaker fit all conditions the unit is adjustable by means of a small knurled screw at the back. Mounted on beautiful cast bronze base.

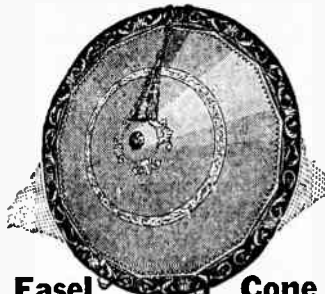
Use one of these cones on your old set and make a new one of it or use it with your new set and make it still better. Will increase the value and enjoyment from any radio set. A speaker which you may truly be proud of.

**2B6486—20 Inch R. F. I. Cone Speaker. List, \$18.50.**

**NET..... \$10.95**

**2B6487—14 Inch R. F. I. Cone Speaker. List, \$12.50.**

**NET..... \$7.38**



## Easel Cone

King of the cones. A large, full size, 18-inch cone, with free edges, creates unusual volume with absolute fidelity of reproduction. Registers the deep, round notes of the bass in perfect proportion to the higher notes, in instrument or voice. No more rain barrel effect on voice reproduction. Clear, natural, full—the ideal cone for broadcast reception. Beautiful. Can be set on table or hung on wall.

**2B5156—List, \$12.50.**

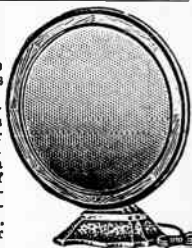
**NET..... \$6.95**

## Claravox Speaker

One of the finest cones made. Clear, rich, full reproduction as you have never before heard. Accepts extra voltage of power tube operation without distortion, muffling or blasting. Overall height, 19½ in. diameter, 16½ in. silk grille. Black and gold crackle finish. Shipping weight, 10 lbs.

**2B5096—List, \$35.00.**

**NET..... \$20.75**

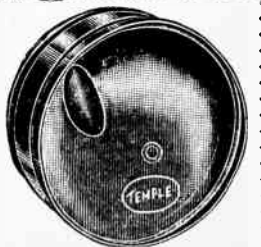


## Temple Console Drum

This is the Temple Drum Speaker without base, grille front and back—"stripped"—for installation in cabinet or console. No unit is furnished, giving buyer opportunity to choose his favorite unit. (See page 49.) This is not a cone, but a long compensated exponential air column type speaker that brings a fidelity of reproduction not heretofore known. No harsh notes—no grating—no slurring at the bottom of the scale. It has become the sensation of the radio world. The air column is 4½ feet long. Diameter of drum 11½ inches, depth 7½ inches. Fitment to take any standard unit. (No unit furnished.) Shipping weight, 18 lbs.

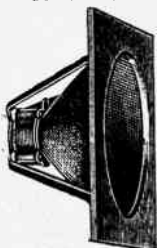
**2B6485—List, \$14.00.**

**NET..... \$8.23**





## Make Old Console Receivers Up to Date With this Barawik Special Console Cone



The ideal cone for building into console and an amazing value at this special Barawik price. Made especially for us by the world's most famous speaker manufacturer. This fine speaker incorporates many new refinements. Although compact it produces tremendous volume and its large powerful perfected unit handles all the power given to it. The reproduction is delightfully smooth, being so balanced as to give fullest value to the low frequencies as well as the high. Has 10-inch Burtex Cone with bound free edge thoroughly protected by the mounting board. Both cone and unit are securely anchored to this board, making a most rugged construction. Dimensions overall, 12x13 in.; depth, 7 in. Adjustment wing put on back.

This wonderful cone will be a revelation to those who now have indifferent speakers in their consoles. Most consoles make a splendid acoustical "background" for

a right console cone speaker and this model will operate perfectly in any console! Complete with mounting brackets. Shipping wt., 8 lbs.  
**2B5198—List, \$12.00. NET, EACH.....**

# \$5.95

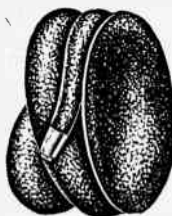
## Barawik Special Moulded Horns

The material used is a special fiber that is practically vibrationless and is very durable. Arranged to take practically all standard units. Nicely finished.

**Mechanical Construction**—All horns are uniform, light in weight, will withstand all ordinary abuse without damage, pleasing in appearance, easily mounted, interior of horn smooth, long air column in compact design.

**Acoustically**—All horns give uniform performance, designed on an exponential curve advocated by acoustic experts, are built not only to take low notes but high notes as well with all overtones. Each individual note is clearly and distinctly amplified. There is an entire absence of muffled or jumbled tones. There is no distortion. Tones are smooth and round, covering the complete true musical range.

### Superphonic Horn Type A. S.



This horn is designed to give the tonal reproduction qualities of the new "orthophonic" type. It can be used either with a radio set or phonograph and reproduces the entire audible scale of tones with a sweetness and clarity rarely attained. For orchestra music and singing it is superior to all other types.

**3B2150—80-inch air column. Overall size, 12 inches round, 10 inches deep. EACH..... \$6.95**

**3B2151—84-inch air column. Overall size, 14 inches round, 10 inches deep. EACH..... \$7.95**

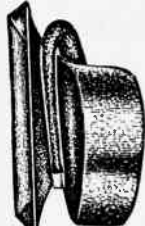
### Giant Ortho-Type O. B.

A very popular horn for this season. Exactly same as used in speakers and consoles selling up to \$200. The highest development yet attained in musical reproduction.

**3B5193—Air column, 96 inches. Bell, 18x24 inches. Depth, 13½ inches. EACH..... \$10.58**

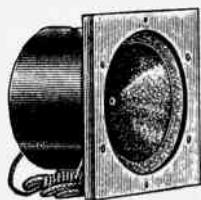
**3B5194—Air column, 92 inches. Bell, 18x18 inches. Depth, 13½ inches. EACH..... \$9.60**

**3B5195—Air column, 84 inches. Bell, 14x21 inches. Depth, 14 inches. EACH..... \$7.30**



## Console Grand Concentrated Cone

Although only 7 inches in diameter this marvelous speaker gives tremendous, bell-like, full rounded reproduction that delights the most exacting. Through the employment of a complete tone filter and a special metal sound chamber, it reproduces the human voice and all musical instruments naturally and clearly. Very sensitive, its uniform action reaches from full volume to a whisper. Free from inherent pitch, there is no "rain barrel" or twangy nasal tonal effects. Mounting front 8x3 inches; depth overall only 5½ inches. Shipping wt. 10 lbs.

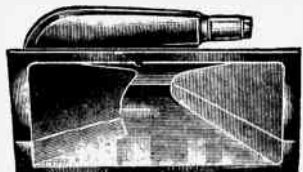


**2B5153—List, \$35.00. NET, EACH..... \$14.75**

Same as above but without tone filter.

**2B5154—List, \$30.00. NET, EACH..... \$11.75**

## Low Boy Model Horn

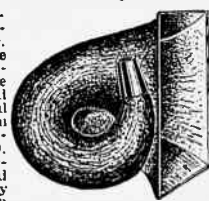


A very compact horn requiring space only 13 inches wide, 6 inches high and 6 inches deep. Very strong and durable. Made of moulded fiber. Has excellent tone quality. Fitting takes most standard makes of units. Can be used in cabinets or consoles.

**3B2550—NET, EACH..... \$2.55**

## Snail Shell Loud Speaker

For use inside of cabinet or console. One of the finest reproducers on the market. Used as standard equipment on speakers selling at \$25.00. Made of processed wood fiber neatly finished in black.



Produces wonderful deep, rich tones. Requires space of 7½ inches high, 11 inches wide, 8 inches deep.

**3B2450—Without Unit..... \$3.00**

**3B2451—With Baldwin Rival Unit..... 6.95**

## Compact Ortho-Type

While very compact it has long air column. Gives astonishing volume with excellent tone quality. A 11 inch column, 43 in. diameter, 10 in. round. Depth, 8 inches.

**2B2152—EACH..... \$3.95**

## Console Symphonic

Designed especially for Console cabinets. Vastly superior to ordinary manufacturer's wooden horn.

**2B5197—Air column, 80 in. Bell, 16x20 in. Depth, 13½ in. EACH..... \$6.75**



## Compact Cabinet Horn

A very compact horn designed especially for use in standard size cabinets. Required panel space only 7 inches wide and 7 inches high with depth of butt 8½ inches. Made of indestructible fiber. Takes practically all standard units. Acoustically correct and delivers pure full tones without distortion or vibration.



**3B2250—EACH..... \$3.00**

## High Boy Model Horn

This horn is acoustically and mechanically correct. It delivers pure full tones without distortion or vibration. Intended especially for use in consoles and cabinet speakers. Bell size 5 inches wide, 12 inches long. Height overall, 14 inches. Made of long grain wood fiber. Practically indestructible. Metal ferrule fits practically any standard unit.



**3B2350—NET..... \$2.85**

## Speaker Tube

Used to attach speaker unit to wooden horn. Made of cast metal. Four screw holes. Threaded to take unit. Permits of best results with specially built wooden horns. Length, 7 in. No unit included.



**3B2153—EACH..... 67c**

**We Pay Freight on orders for \$50 or More—See Page 3.**

# Improve Any Speaker With These Wonderful New Tone Filters

## Sterling Tone Filter



Eliminates tube noises and improves tone quality of speaker when connected between radio set and speaker. Absolutely prevents overload of direct current from running speaker. The high voltages now

delivered from "B" eliminators make it necessary to protect the radio loud speaker from damage. Attach in two minutes—lasts forever.

3B778—List, \$5.00. Net, **\$2.94**

## Amsco Orthophone



Placed between any loud speaker and set, will greatly improve reception. It eliminates the direct plate current from speaker windings, thereby preventing distortion. It increases frequency range of speaker, especially bringing out full roundness of lower frequencies. Attached in half minute. Case is 4 1/2 x 2 1/2 x 2 3/4 inches bound crystal finish.

3B5190—List, \$6.00. Net, **\$3.48**

# Muter Clarifier and Tone Filter



Easily attached in a few seconds without disturbing set. Improves tone, quality and volume by protecting speaker coils from high B voltage and preventing polarization of speaker unit. Enclosed in highly finished enameled container with nickel binding posts and suitable phone cord. Size 4 in. high, 3 1/4 in. long, 2 1/4 in. wide.

3B779—List, \$5.00. Net, **\$2.94**

## Nathaniel Baldwin Receivers

Type C Headset known the world over for its high quality. Best headset made.

2B722—**\$5.28**



## Frost Headsets



Known for years for their splendid quality. Fully guaranteed.

2B721—Frost 174, 2000 ohm headset. Aluminum shell. List, \$3.00. Net, **\$1.76**

2B720—Frost 175, 3000 ohm headset. Aluminum shell. List, \$3.50. Net, **\$2.06**

2B719—Frost 172, 3200 ohm headset. Bakelite shell. List, \$6.00. Net, **\$3.53**

## Sprague Tone Control

An entirely new principle of tone and volume modulation. Gives tone flexibility to set and speaker and greater volume. Absorbs static and tube noises. Makes possible full benefits of the new power tube by matching its impedance to the speaker. No changes in set wiring are necessary.

3B2045—List price, \$3.60 each. Net, **\$2.10**



## Phone and Speaker Cord

Fine quality cords designed for long service. Covered with firm glossy black braid.

3B737—5-foot double cord. Spade tips one end, straight tips on other. List, 65c. Net, **30c**

3B738—5-foot double cord. Straight tips on both ends. List, 65c. Net, **30c**

3B739—5-foot single cord. Straight tips on both ends. List, 36c. Net, **21c**

## Cord Tips



2B726 Standard List, 20c. **35c** | 2B727 Separable List, 50c. **55c**

## Phone Cushions

2B736—List, 60c. **33c**  
Made of soft rubber. Fits any phones.

## Extension Cord Sets



Complete with cord and connector. Loud speaker can be moved any distance away without moving set.

	List, each	Net
3B781—20 ft.	\$1.00	\$0.54
3B782—30 ft.	1.40	.84
3B784—50 ft.	2.20	1.22

## Extension Cords

Extension cords only. Without plug or extender jack. Allows extension of head set or loud speaker.

3B1538—10-ft.	Each	\$0.27
3B1539—20-ft.	Each	.36
3B1540—30-ft.	Each	.62
3B1541—50-ft.	Each	1.10

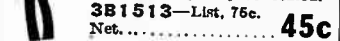
## Extension Connector

3B1521—**21c**  
Each  
Connects speaker cord with extension cord so speaker can be moved any distance from set.



## Carter Flat Plug

3B1513—List, 76c. **45c**  
Provides quick means for inserting and removing cord tips. Tips completely concealed.



## De Jur Plug

3B1503—List, 50c. **15c**  
Ten for \$1.30.  
The cord tips are firmly clutched and the smooth nickel stem assures a good contact with the jack. Has all the features of a serviceable plug. It is a real value.



## Great Head Set Offer Unusual Value

Here is a headset known to reproduce radio broadcast absolutely true and clear. Actually equal in tone and volume to many well known brands that sell at much higher prices. Receiver cases and caps are fine polished finish. Covered head bands, easily adjusted to comfortably fit the head. Only high grade materials used. You will be well pleased with their performance. Complete with 5-foot cord. 3B717—List price, \$4.00. Net price, **\$1.30**



NET **\$1.30**

## E-Z Improved Radio Plug



Cord is easily and quickly connected. Tips cannot pull out, yet can be removed

in instant. Fine polished black moulded grip. 3B1512—List, 36c. Net, **21c**

## Pacnet Auto Plug

3B1507—List, 60c. **35c**  
A press on the buttons at sides instantly releases cord, yet no amount of pulling will release cord unless buttons are pressed. Attractive bakelite shell with nicked stem. No chance for shock.

## Frost Plug

3B1514—List, 76c. Net, **45c**  
An automatic plug that holds two sets of cords. Cords snap into place and can be instantly released by a press on the button release.

## Duplex Two-Cord Plug

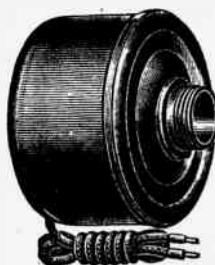
3B1569—List, 60c. Net, **30c**  
Unbreakable fiber barrel; black satin finish. Accurately fitting metal parts. Takes two sets of cords.



## Multiple Plug

3B1516—**56c**  
Each  
Fits any standard jack. Takes number of phones and speakers to four. Cords attached by inserting tips into slots.





## New R. F. I. Super Power Loudspeaker Unit

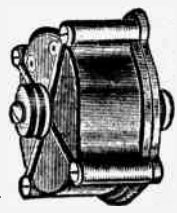
The R. F. I. people were pioneers in fine unit construction. Years of test and experiment and thousands of dollars were spent to perfect this wonderful unit which would perfectly fit the demands of faultless radio reproduction under all conditions. It is truly a scientifically correct device—the product of the study and work of acoustical, electrical and radio engineers. Extremely sensitive, it reproduces with uncanny faithfulness all the frequencies encountered in music and speech. Yet it is so perfectly balanced that no point in the scale is either slighted or favored. The result, therefore, is that this unit is readily adaptable to any type of speaker or reproducing device and its performance a marvel in uniformity. There is positively no distortion at any point, but a liquid, sweet, natural flow of the radio broadcast that is a delight to even the most critical listener. For use with power tubes and special amplifiers, it excels all others. It will carry more volume, without hint of distortion, than any unit of which we know. Even the largest power set will not break it down. It will handle up to 700 volts without danger of burn out. The magnets are of tungsten steel. The entire unit is rustproof and tightly sealed. Will give lifelong service in any atmosphere—even in salt air.

**\$324**

Shipping weight, 3 lbs.  
**2B6490—List, \$6.00, NET.....**

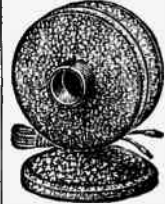
## Phonograph Units Amplion Units

The unit that has made the Amplion Speaker famous is offered for phonograph and console speaker use. Unsurpassed for fine tonal rendition, covering the entire musical scale with faithful and full rounded reproduction. The basses and undertones, as well as the treble are perfectly reproduced. Shipping weight, 2 lbs.



**2B2552—List, \$12.00, NET, EACH..... \$7.05**

### Utah Unit



The extra large Utah unit, the same as used in the renowned Utah speakers. The diaphragm is corrugated and balanced and the extra large magnet and windings enable it to reproduce the entire musical scale with fidelity and volume. Furnished with base as illustrated.

**2B807—List price, \$10.00, YOUR NET PRICE..... \$5.88**

### The Poly-Claro Plug

Improves tone quality of every Loud Speaker. Eliminates "scrapy" sounds. Broadens range; brings out bass and high tones. Adds body, detail and definition to the tone.



**2B2539—List, \$1.50, NET.... 89c**

### Central Modulator Plug

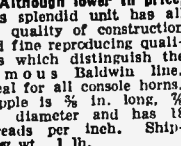
Gives any degree of volume from whisper to maximum by turning the small knob on the plug. Static interference reduced. Bakes base and knob. Shipping wt., detail and definition to the tone.



**2B2538—For sets with jacks, 2B2549—For sets without jacks. Plug, complete. List price, \$2.50, NET ..... \$1.47**

### Baldwin Rival Unit

Although lower in price, this splendid unit has all the quality of construction and fine reproducing qualities which distinguish the famous Baldwin line. Ideal for all console horns. Nipple is 3/4 in. long, 3/4 in. diameter and has 18 threads per inch. Shipping wt., 1 lb.



**2B2554—List, \$7.00, NET, EACH..... \$4.20**  
**2B6489—Shielded Model, List, \$7.50, NET..... \$4.41**

### Baldwin Concert Grand

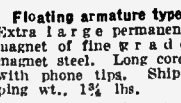
Generally known as the best. Each unit hand made, carefully adjusted and tested. Precision made at every step. Widely limited, but not excelled for its faithful, consistent reproduction. Nipple 3/4 inch long, 3/4 in. diameter, 18 threads per inch. 5 foot cord with tips. Shipping wt., 2 lbs.



**2B2556—Baldwin Concert Grand, List, \$12.00, NET, EACH..... \$7.06**  
**2B2557—Baldwin Concert, List, \$10.00, NET, EACH ..... \$5.88**

### Adjustable Unit

Floating armature type. Extra large permanent magnet of fine grade magnet steel. Long cord with phone tips. Shipping wt., 1 1/4 lbs.



**2B2560—List, \$3.50, NET, EACH..... \$1.68**



### Utah Units

Long famed for their perfect performance in all types of horns and reproducers. Extremely sensitive, yet powerful, covering the entire scale with a uniformity and fidelity that is a delight to the most critical. Polished aluminum shell completely seals magnets and armature. Standard nipples, 5 foot cord with tips.

**2B2558—Utah "King," List, \$6.50, NET, EACH..... \$3.82**  
**2B2563—Utah "King" Deluxe," List, \$8.50, NET... 4.99**

### Balanced Armature Unit

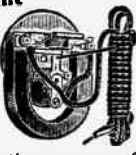
New and improved method of balancing armature so as to cover complete tone range without adjustment. Large magnets of finest grade magnet steel. Special alloy diaphragm, conical and ribbed. Aluminum case. Threads 3/4 O. D., 18 thread standard. Cord with tips.



Shpg. wt., 2 lbs.  
**2B2559—List, \$5.00, NET, EACH..... \$2.55**

### Cone Unit

Floating armature type. Large permanent fine steel magnets. Special conical alloy diaphragm. Strong, rigid construction—will withstand hard usage and great volume. Gives uniform, perfect reproduction over the entire range of tone. Long cord with tips.



**2B2561—List, \$5.00, NET, EACH..... \$3.00**  
 See Page 106 for Western Electric Unit.

### Ekko Phonograph Adapters

Four styles to fit 98% of all phonographs. Shipping wt., 6 oz.

- Ekko Connector No. 1—To connect for Edison phonograph. 2B729—No. 1, List, 25c, NET..... 17c**
- Connector No. 3, for Columbia, Pathe, Vocalion and those having Jewell (old style) tone arms. 2B730—No. 3, List, 20c, NET..... 14c**
- Connector No. 4, for Brunswick. 2B731—No. 4, List, 30c, NET..... 20c**
- Connector No. 5, for Blandin, Cecilian, Kimball, Orthophonic Victrola and Brunswick Prismatic phonographs. 2B732—No. 5, List, 25c, NET..... 17c**

### R. F. I. Unit

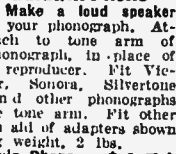
Attached to any phonograph this unit gives excellent volume and tone quality. Fits Victor phonographs. Adapters for other makes shown below. Shipping weight, 2 lbs.



**2B809—List price, \$7.50, NET ..... \$4.50**

### Baldwin Phono

Make a loud speaker of your phonograph. Attach to tone arm of phonograph, in place of a reproducer. Fit Victor, Sonora, Silvertone and other phonographs having same size tone arm. Fit other phonographs with aid of adapters shown below. Shipping weight, 2 lbs.



**2B805—Baldwin Phono, List, \$9.00, NET..... \$4.71**

### Dulce-Tone

#### Radio Phonograph Speaker

Place phonograph needle in Dulce-Tone's grooved record and plug into radio set. No special connections needed. Gets power direct from "B" battery circuit and is used same as ear phones or loud speaker. Use it in separate room from set if desired. Adjustable for volume. For all makes of phonographs.



Produces a clear, rich tone using the phonograph sound chambers. 5-foot cord included. Shipping weight, 2 lbs.  
**2B810—List, \$10.00, NET..... \$6.00**

# SONATRON RADIO TUBES

## For Distance and Volume Type 200-A Power Detector



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 22½; (min.) 22½; Plate volts (max.) 45.

**2B90B**—List, \$4.00, Net, each.... **\$1.95**

## Standard for All Sets Type 201-A

### Detector and Amplifier

An all purpose tube, universally used in storage battery and socket power 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.

**2B813**—List, \$1.75, Net, each.... **86c**



## Type 210 Oscillator and Amplifier

Recommended for heavy duty loud speakers, with plate voltages ranging up to 425 volts. Can be used for amateur transmission. As Amplifier; Fil. volts, 6 to 7.5; Fil. amps. 1.25; Plate volts (max.) 425; Neg. "C" battery 4.5 to 35. As Oscillator; Fil. volts 7.5; Fil. amps. 1.25; Plate amps. .06; Plate volts 350.

**2B1002**—List, \$9.00, Net, each.... **\$4.40**



We Pay Freight—See Page 3

## Type 171 Power Amplifier

Used in any storage battery and socket power receiving set with hook-up for power tube in last stage of audio frequency. Audio. Fil. volts 5; Fil. amps. .5; Plate volts (max.) 90; Plate volts (max.) 180; Neg. grid volts (with 90 pl.) 22½; Neg. grid volts (with 180 pl.) 40½.

**2B912**—List, \$4.50, Net, each.... **\$2.20**

## Type 171-A Power Amplifier Adapter Base

You can use this tube in any storage battery set in the last stage of audio frequency. The adapter base provides connections for adding additional B and C voltage to your set to operate this power tube. Has the same specifications as Type 171.

**2B909**—List, \$5.00, Net, each.... **\$2.45**



## Type 112-A Power Amplifier

The adapter base of this tube provides connections for adding additional B and C voltage to your set without rewiring so it can be used as a Power Amplifier. Gives greater volume and distance. Fil. volts 5; Fil. amps. .5; Plate volts 22.5 to 157; "C" Battery voltage 6 to 10.5.

**2B913**—List, \$5.00, Net, each.... **\$2.45**

## Type X-112 Power Amplifier

Y ou g e t greater volume, distant stations with ease when you use this Power Amplifier in any ordinary storage battery receiver set. Fil. volts 5; Fil. amps. .5; Plate volts 22½ to 157; "C" Battery voltage 6 to 10.5.

**2B819**—List, \$4.50, Net, each.... **\$2.20**



# DRY CELL TUBES

## Type 199 Amplifier and Detector

Fil. volts 3; Fil. amps. .06; Plate voltage 22½ to 90; "C" Battery volts 1.5 to 4.5. Short prongs.

**2B1003**—List, \$2.25, Net, each.... **\$1.10**

## Type X-199

This type of tube has the same specifications as Type 199, but it has the new X base (long prongs).

**2B1004**—List, \$2.25, Net, each.... **\$1.10**

## Type 199-A Power Amplifier

Identical specifications as Type 199, but equipped with the standard base.

**2B1026**—List, \$2.25, Net, each.... **\$1.10**



## Type 112 Amplifier and Detector

Fil. volt 1½; Fil. amps. .25; Plate volt 22½ to 90.

**2B1027**—List, \$2.50, Net, each.... **\$1.22**

## Type X-112

### Power Amplifier

This tube is used in dry cell battery sets in the last stage of audio frequency. It produces great volume without distortion. Fil. volts 3; Fil. amps. .125; Plate volts 135; "C" Battery volts 22.5.

**2B1005**—List, \$2.50, Net, each.... **\$1.22**



## The New A-C Tubes

### Type 225 A-C

Acts as A. F. amplifier, detector, A. F. amplifier and oscillator. Fil. voltage 3; Fil. amps. 1.05; Plate voltage 12 to 135; "C" voltage 3 to 9.

**2B1028**—List, \$5.00, Net, each.... **\$2.94**

### Type X-226 A-C

For use in radio or trans. coupled A. F. amplification. Should not be used in detector or last audio. Fil. volts 1.5 A-C; Fil. amps. 1.05; plate voltage 90 to 180 D. C.

**2B1029**—List, \$3.00, Net, each.... **\$1.79**

### Type Y-227 A-C

(Fits new 5 prong socket only.) May be used as detector or audio and R. F. Heater voltage 2.5; heater ampere 1.75; plate voltage 90 to 180 D. C.

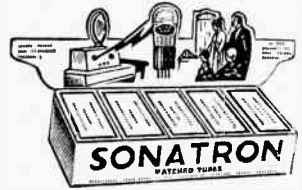
**2B1030**—List, \$6.00, Net, each.... **\$3.45**





# Buy SONATRON Tubes in Matched Sets

## The Right Way to Purchase Tubes



Every tube matched on meter board, according to mutual conductance. This is a guarantee that a set will give better results and show better tone quality.

Neutrodyne, tuned radio frequency and superhets need matched tubes for perfect operation and for volume on distance.

Use SONATRON Matched Tubes for demonstrating sets because of tone quality and volume. Unmatched tubes cause many sets to tune very broad.

### 5 TUBE COMBINATIONS

**Combination S-1—For New Sets**  
 3X-201-A Amplifier Tubes; 1  
 200-A Power Detector; 1 171  
 Power Amp. with Standard Base.  
**2B1007—Complete. List \$6.88**  
 Value, \$13.75. NET....

**Combination S-2—For Old Sets**  
 3X-201-A Amplifier Tubes; 1  
 200-A Power Detector; 1 171-A  
 Power Amplifier with Adapter Base;  
 no rewiring necessary.  
**2B953—Complete. List \$7.13**  
 Value, \$14.25. NET....

### 6 TUBE COMBINATIONS

**Combination S-3—For New Sets**  
 4 X-201-A Amplifier Tubes; 1  
 200-A Power Detector; 1 171

Power Amp. with Standard Base.  
**2B1009—Complete. List \$7.75**  
 Value, \$15.50. NET....

**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.  
**2B955—Complete. List \$8.00**  
 Value, \$16.00. NET....

### 7 TUBE COMBINATIONS

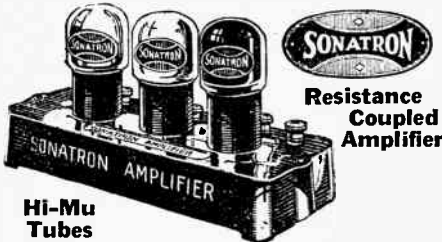
**Combination S-6—For New Sets**  
 5 X-201-A Amplifier Tubes; 1  
 200-A Power Detector; 1 171  
 Power Amp. with Standard Base.  
**2B1012—Complete. List \$8.63**  
 Value, \$17.25. NET....

**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.  
**2B957—Complete. List \$8.88**  
 Value, \$17.75. NET....

### 8 TUBE COMBINATIONS

**Combination S-7—For New Sets**  
 6 X-201-A Amplifier Tubes; 1  
 200-A Power Detector; 1 171  
 Power Amp. with Standard Base.  
**2B1036—Complete. List \$9.50**  
 Value, \$19.00. NET....

**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.  
**2B959—Complete. List \$9.75**  
 Value, \$19.50. NET....



**Hi-Mu  
Tubes**

**Resistance  
Coupled  
Amplifier**

So remarkable is the tone quality and volume of this Amplifier that after selling several thousand—we decided to offer a real "money-back guarantee"—if you are not satisfied with the Sonatron Amplifier. This guarantee is good for 10 days from our shipment to you—provided tubes are not burned out or Amplifier broken when received by us. We also guarantee tone equal to a \$200.00 set. The Amplifier will not change the tuning of any set—just the volume and tone. An opportunity to bring old sets up to date at small cost. Amplifier base made of moulded bakelite. Very best grade resistors and condensers used.

**THREE AUDIO STAGES RESISTANCE COUPLED**  
**2B950—Complete with three 6 volt tubes.**  
**2B961—Complete with three 3 volt tubes.**  
 List, \$20.00. NET..... **\$10.50**

**Hi-Mu 6 Volt Tubes**  
 The newest and best in power amplification for resistance or impedance coupled sets.  
**2B914—MU-X-30 (any stage except last).**  
**2B915—MU-X-20 (any stage except last).**  
**2B916—MU-X-6 (for last or output stage).**  
 List, \$4.00. NET..... **\$2.00**  
 Set of 3 in Special Display Box.  
**2B926—List Value, \$12.00.**  
 NET. BOX..... **\$6.00**

**Hi-Mu Dry Cell Tubes**  
**2B917—MU-X-29 (any stage except last).**  
**2B918—MI-X-19 (any stage except last).**  
**2B919—MU-X-9 (for last or output stage).**  
 List, \$4.00. NET..... **\$2.00**  
 Set of 3 in Special Display Box.  
**2B924—List Value, \$12.00.**  
 NET. BOX..... **\$6.00**

## Sonatron Tubes for "B" Eliminators

**TYPE SH-85—Gas Filled. No Filament**  
 The Sonatron laboratories perfected this improved type of surface-cooled, gas filled, full-wave, no filament rectifier tube for "B" Eliminators. Its rugged construction insures a keen even flow of rectified current at maximum efficiency. When properly used this tube will deliver 1200 hours of service; guaranteed for 600 hours. Current Consumption, 8 watts; Maximum A. C. Input Voltage (per plate), 300; Maximum Rectified Current (both plates), 85 mls.  
**2B960—List, \$4.50.**  
 NET, EACH..... **\$2.25**

**TYPE 213—Full Wave Rectifier Tube for "B" Eliminator**  
 For Rectifying Current, Fil. volts 5; Fil. amps. .2; Max. A. C. input voltage 220 volts per anode (RMS); Max. D. C. output 75 mls.  
**2B1001—List, \$5.00.**  
 NET, EACH..... **\$2.50**

**TYPE 216-B—Half Wave Rectifier for "B" Eliminator**  
 For Rectifying Current, Fil. volts 6 to 8—7.5 avg.; Fil. amps. 3.75; Max. A. C. input voltage 550 volts (RMS); Max. D. C. output, 65 mls.  
**2B1000—List, \$7.50. NET, EACH..... \$3.75**

**TYPE 281—Half Wave Rectifier**  
 This tube may be used in devices designed for the Type 216-B. While its rating is higher, the normal output is approximately the same as the Type 216-B. It has a longer life because it is made with the new Sonatron oxide filament. Fil. volts 7.5; Fil. amps. .75; A. C. plate voltage (max. per plate) 750 (RMS); D. C. output current 125 mls. at 500 volts (RMS) A. C. plate voltage.  
**2B963—List, \$9.50. NET, EACH..... \$4.75**

**TYPE 280—Full Wave Rectifier**  
 This tube may be used in devices designed for Type 213-B tubes. It has a higher rating and longer life than the Type 213-B by reason of its greater reserve output. Fil. volts 7.5; Fil. amps. 1.5; A. C. plate voltage 750; D. C. output current 125 mls.; D. C. output current 110 mls at 500 volts.  
**2B964—List, \$5.50. NET, EACH..... \$2.75**

**TYPE 874—Voltage Regulator Tube**  
 Maintains constant voltage of "B" Eliminators at different current drains.  
**2B968—List, \$5.50. NET..... \$2.75**





# Continental

## Standard Radio Tubes

Were \$1.75  
Now Only

**\$1.00**

Retail

201A Type  
Your Net  
Cost

**59¢**

The Continental Tube is of standard quality and standard test and fully guaranteed—volume production makes this price possible.

The greatest and most sensational price reduction ever offered in high quality standard meter test guaranteed radio tubes. No job lot or old style base tubes but genuine Continental tubes, "firsts" of the very best grade. Increased production and large volume business enables us to offer Continental quality tubes at the now established standard retail price of only \$1.00 for the 201A type.

Never before has a standard quality radio tube been offered at this low price. Each tube packed in individual box, carefully tested and unconditionally guaranteed. The 201A type shows an emission reading of 55-60 at 45 volts or 65-70 at 90 volts and in the 199 type a reading of 20-25. That's real quality! Other types are of correspondingly good performance.

Continental Tubes are guaranteed by the maker to be equal in every respect to most tubes selling for much higher prices. These tubes sell quickly and stay sold. The best engineering skill, experience and knowledge gained from years of specialization are incorporated in their manufacture.

Every Continental Tube is absolutely guaranteed against all defects—no arguments—no reservations. Defective tubes are replaced without charge.

Note: Don't class the Continental Tube with the ordinary dollar tube which is usually a factory second or reject. Continental Tubes are a distinctly quality product.

### Look at These New Low Prices

Article Number	Type	Retail Price	NET EACH
2B850	201A	\$1.00	\$0.59
2B851	199	1.25	.74
2B852	200A	2.50	1.39
2B853	171	2.50	1.39
2B854	112	2.50	1.39



### ZETKA TUBES

Clear glass tubes evacuated by new process. Eliminates tube noises and microphonic disturbances. Longer life, clearer reception. Oxide filament.

**2B6332—ZP201A.** Fil. voltage 5, current 1/4 amp. Plate 45-90 volt. List, \$3.50, **\$2.05**  
NET.....

**2B6333—Z200A.** Super-sensitive detector. Fil. voltage 5, Fil. current 1/4 amp. Plate 45 volt. List, \$4.00, **\$2.36**  
NET.....

**2B6334—Z112.** Power amplifier. Fil. voltage 5, Fil. current, 1/2 amp. Plate 90-157.5 volt. List, \$4.50, **\$2.65**  
NET.....

**2B6335—Z171.** Power tube. Fil. voltage 5, Fil. current, 1/2 amp. Plate 90-180 volt. List, \$4.50, **\$2.65**  
NET.....

### CECO TUBES

Nationally known radio vacuum tubes of merit and quality. Made in one of the largest plants in the world devoted exclusively to the manufacture of radio tubes.

**2B6336—Similar to standard X201A tubes.** List, \$1.75, **\$1.03**  
NET.....

**2B6337—X199 type.** List, \$2.00, **\$1.18**  
NET.....

**2B6338—Type H Detector Tube.** List, \$2.50, **\$1.47**  
NET.....

**2B6339—Type K. Radio Frequency Amplifier.** List, \$3.00, **\$1.77**  
NET.....

**2B6340—Type F. Similar to type 112 power tube.** List, \$2.65, **\$2.65**  
NET.....

**2B6341—Type E. 171 Power Amplifier.** List, \$4.50, **\$2.65**  
NET.....



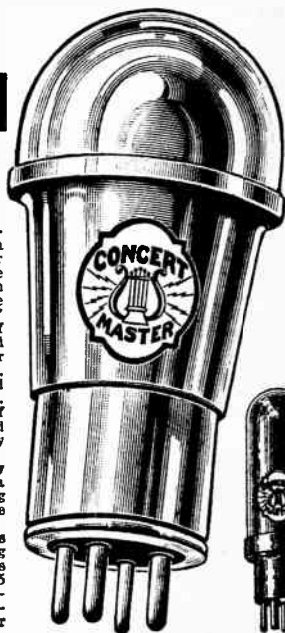
## Concert Master Copper Shielded Radio Tubes

No Howls, Squeals or Microphone Noises

They are new! Clearer, stronger volume! A completely shielded tube in a pure copper case. This insures sharper tuning, greater clarity, increased volume and distance, and added protection against handling and breakage. The shield being grounded to the negative "A" terminal gives complete elimination of stray capacitance, sharper tuning, and saves "A" battery current. The interior soft cushion, with no period of vibration, makes this tube practically air-suspended and definitely eliminates squeals, howls, and microphonic noises. In this day of shielded sets, Concert Master Shielded Tubes are a necessity. They improve any set.

Concert Master Tubes are thoroughly and rigidly constructed. They contain a thorium impregnated filament, enabling their withstanding re-activation any time loss of efficiency is sighted.

Concert Master Tubes, to be passed as perfect, must show an emission reading in the 201-A type of 55-60 at 45 volts or 65-70 at 90 volts and the 199 20-25 and together with their other fine characteristics Concert Master Tubes will insure perfect performance over a longer period than the average radio tube.



Article Number	Type	Retail Price	NET EACH
2B845	201A Type	\$2.50	\$1.44
2B846	200A Type Detector	\$4.50	2.65
2B848	199 Type	\$2.50	1.44
2B847	X112 Type Power Tube	\$4.50	2.65
2B849	171 Type Power Tube	\$4.50	2.65

YOUR NET



# GENUINE Rectifier Raytheon Tubes

The Raytheon tube has revolutionized the B-ellimator.

Long life. No filament. Greater economy and reserve power enough to run a 10-tube set. Uninterrupted service. No liquids. So developed that a single tube utilizes both halves of the alternating current for rectification. A dependable rectifying tube—the talk of the radio world.



No.	Type	Output	List	Net
2B6507	B	60 Mils.	\$4.50	\$2.65
2B831	BH	125 Mils.	4.50	2.65
2B6508	BA	350 Mils.	7.50	4.41



## Raytheon Rectifying Cartridge

Type A. Compact, simple, reliable. Contains no liquid or filaments. Most efficient for battery chargers or A power units. Low operating cost. Guaranteed for 750 hours' service. Rating 2 1/2 amps.

2B6509—List, \$4.50. NET..... **\$2.65**

## Q. R. S. Rectifying Tubes

Full wave gaseous rectifier tubes that serve efficiently for all "B" Ellimators.

2B6511—85 Milliamp.	<b>\$2.65</b>
List, \$4.50. NET.....	
2B6512—400 Milliamp.	<b>4.12</b>
List, \$7.00. NET.....	



## Na-Ald Power Tube Adapters "Connectoralds"

Permit the use of the new power tubes in any set without alteration of wiring. Two "B" and two "C" battery leads are provided so that the additional B and C batteries are connected in the circuit at socket.

38828—Na-Ald No. 120—Adapts UX120 and similar tubes to standard base sockets.	<b>81c</b>
List, \$1.25. NET.....	
38829—Na-Ald No. 112. Permits use of UX112, UX171 and similar power tubes in standard sets.	<b>98c</b>
List, \$1.50. NET.....	



## Tube Adapters

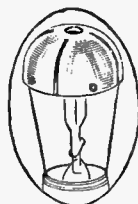
38814—To adapt UV199 or C299 tubes to standard base sockets. NET.....	<b>28c</b>
38815—To adapt WD11 or C11 tubes to standard base sockets. NET.....	<b>42c</b>
38816—To adapt UX199 tubes to standard base sockets. NET.....	<b>17c</b>



## Quietron Tube Cap

The Dial Quietron is a dome of nickle-plated brass, slotted and fitted with felt washers to give it a firm grip of the tube. Simply place a Quietron on any ringing, howling detector or amplifier, and the noise stops at once. How? By the weight of the Quietron. Microphonic noises are started by mechanical vibrations which shake the tube. The Dial Quietron so weights the top of the tube that it does not—cannot vibrate in response to outside influences. Simple—nothing to wear out or break—has no electrical function or effect—handsome—and remarkably low priced.

2B817—List Price, 50c. NET..... **33c**



## McDonald Howl Arrester STOPS THE HOWLS

Here is a positive remedy for one of the biggest little annoyances of the radio industry—that nerve-racking howling of tubes caused by microphonic vibrations!

See that rubber jacket about to descend on the "howler"? Once this "howl absorber" slips over a tube the howl stops for once and all.

No more ruined reception. The thick shield of life rubber effectually soaks up the trouble-making vibration.

It comes in sizes to fit every size tube.

2B842—For 201A size tubes.

2B843—For 199 size tubes. Retail price, each, 75c.

YOUR NET COST, EACH..... **46c**



# New Glass Bridge Braced

## VITAVOX Radio Tubes

Microphonic  
Noises  
Positively  
Eliminated

**55c Net**



Tubes are the most important part of your radio set. Without good tubes your set is worthless. It takes many years of research and requires much skill to manufacture a really good radio tube. Here is a tube that is produced by the finest engineers in the country who have spent years in the development of good radio tubes. In this tube is concentrated the knowledge gained by research and experience.

Microphonic noises have been completely eliminated by the unusual construction used in the Vitavox tubes. The most important of the many improvements is the glass bridge feature. This bridge works on the same principle as a tuning fork which is deadened by holding the prongs. The plate, grid and filament are welded into their proper positions and are then insulated from each other by the glass bridge or bontu—a perfect insulator. This bridge then holds the elements so that they cannot vibrate and cause microphonic noises. This point is very important for a microphonic tube will do nothing but cause continuous howling and ruin the entire program. Nothing is worse. You are absolutely assured of getting only high grade tubes when you buy Vitavox tubes. Each tube is passed thru very exacting tests before it is allowed to leave the factory. It is built so sturdily that when you get it, the jolts and jars of shipping have not affected it in any way. Put a set of these tubes in your set and notice the difference immediately. The stations will come in more clearly, they will have more volume than ever before. In fact, your set will sound like a new one. But when in new sets and you will never be troubled with poor volume and lack of sensitivity. They are unquestionably one of the best tubes on the market of the world today.

Our great buying power allows us to offer these tubes at a low price so that every one can become acquainted with the wonderful results possible when good tubes are used. Put in a complete set of Vitavox tubes and be assured of the very best radio reception.

Patented thoriated tungsten filament assures long life and better service. The filament voltage necessary is 5 volts. Filament current, 25 amperes. Plate voltage 22 to 80 volts, depending upon the use to which the tube is put. 90 volts should be used for amplifiers and 22 to 45 for detectors.

2B6518—Vitavox Radio Tube Type  
201-A. List Price, \$1.75. EACH..... **55c**

Ten lots. EACH, 53c. Fifty lots. EACH..... **50c**

## CARTER Adapters

Carter adapters are in general use and provide a simple means for using the new tubes in many of the older receivers.

### Type 3A Adapter

For adapting UX and CX type tubes for W.D. 11 sockets.  
List, 50c.  
3B6514—NET..... **30c**



### Type UX2 Adapter

For adapting UX199, UX201A or any UX tube to old style UV199 type socket. List, 75c.  
3B6515—NET..... **45c**

### Type 171 Adapter

For adapting UX112 or UX171 power tubes to old type 201A or 199 type base. Furnished with leads to provide additional B and C voltage to power tubes without altering the wiring of the set in any way.  
3B6516—List, \$1.00. NET..... **59c**



WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

# Radiotron and Cunningham Tubes

**TUBE PRICES**—Our selling prices are based on standard dealers' discounts of 30% from list prices. Should list prices or discounts decline, our selling prices will be lowered on a proportionate basis. We supply either R. C. A. or Cunningham tubes which are of identical construction and give identical results.

## UX301A, UX201A Amplifier Detectors

The standard tubes wherever radio is known. Filament requires current of 5 volts, ¼ ampere. Used with a 6-volt battery, a 10-ohm rheostat is required. Highly efficient as rheostat or audio frequency amplifiers and as detectors. Fit all standard and new X universal sockets.

**2B921—Radiotron UX201A.**  
**2B921—Cunningham CX301A.**  
List, \$1.75. **\$1.20**  
NET

## UX200 Detector

In certain circuits far surpasses any other type of tube as a detector and is recommended in those circuits in spite of high current plate consumption, which is about 1 ampere at 5.1 volts on filament. Plate voltage varies from 18 to 22½ volts.

**2B1016—Radiotron UX200.**  
List, \$1.75. NET **\$1.23**

## UX112—CX112

Storage battery power amplifier tube for improvement of quality and volume. Plate voltage 135 v., grid bias 9 v., with 157 volt plate voltage maximum. Filament 5 volts 0.5 amperes. Has new X type universal base.

**2B1017—UX112.**  
**2B1037—CX112.**  
List, \$4.50. NET **\$3.08**

## UX210—CX310

New super-power amplifying tube designed for use in A. C. operated power amplifiers. Plate voltage 325 v., maximum; grid bias 35 v. at 7.5 v. on filament. Normal plate voltage 135 v., bias 9 v. on normal 6 v. filament. Has new X type universal base.

**2B1018—UX210.**  
**2B1038—CX310.**  
List, \$9.00. NET **\$6.18**

## UX171—CX211

A power amplifier of extremely low output impedance for use in last audio stage only. Operates on 5-volt filament voltage using 0.5 ampere. The volume obtainable with this tube, even with 90 volts plate, is exceptionally high.

**2B1022—Radiotron UX171.**  
**2B1032—Cunningham CX271.**  
List price, \$4.50. **\$3.08**  
NET

## UX213—CX313—Full Wave Rectifier

A full wave rectifier. Has output of 65 milliamperes at a maximum voltage of 280 v. C.

**2B1023—UX213.**  
**2B1033—CX313.**  
List, \$5.00. NET **\$3.43**

## C299, CX299, UV199, UX199 Dry Cell Tubes

Built for use with dry batteries. Bring in distant stations with loud speaker volume in clear, natural tones. Use only .009 ampere at 3 volts. Work equally well as detectors or amplifiers. Fit all 199 and new X universal sockets.

**2B922—Radiotron UV199.**  
**2B920—Radiotron UX199.**  
**2B932—Cunningham C299.**  
**2B930—Cunningham CX299.**  
List, \$2.25. NET **\$1.54**

## UX120—CX220

Dry battery power amplifier tube which, when connected to last audio stage of a dry battery operated receiver, provides volume double that obtainable with 199 tubes. Plate voltage 135 v. Grid bias 22 v. Filament operates at 3 volts, 0.125 ampere. Has new X type universal base.

**2B928—UX120.**  
**2B938—CX220.**  
List, \$2.50. NET **\$1.71**

## C377

Protective Tube. Eliminates the possibility of accidental burning out of tubes due to short circuit. Special double contact bayonet base.

**2B6362—List, \$1.75.**  
NET **\$1.20**

## C11, WD11, C12, CX12

Equally efficient as detectors and amplifiers. Use 1.1 volt ¼ ampere filament current so that an ordinary single dry cell will operate them. Plate voltage 22½ to 45 v. for detector; 45 to 90 v. for amplifier.

**2B1019—Radiotron WD12, WX12, its standard base and new X universal sockets.**  
List, \$2.50. NET **\$1.71**

**2B1020—C11, WD11, requires special type socket.**  
List, \$2.50. NET **\$1.71**

**2B1039—Cunningham C12, CX12.**  
List, \$2.50. NET **\$1.71**

## UX300A—CX300A

The most sensitive and efficient detector. Very stable; not critical to the adjustment of the plate voltage. Will operate on distant signals with additional sensitivity and volume approximately equal to that which would be obtained by the addition of one stage of radio frequency amplification. No changes in the set required to use this tube. Filament current 5 volts 0.25 ampere. Plate voltage 45 volts maximum.

**2B1021—Cunningham CX300A.**  
**2B1021—Radiotron UX200A.**  
List, \$4.00. NET **\$2.74**

## UX216B—CX316B

A half-wave rectifier used to supply unidirectional current from an alternating current source. Output 65 milliamperes at a maximum impressed voltage of 350 A. C. Has long life. Two of these tubes may be connected to give full wave rectification with an output of 130 milliamperes.

**2B1024—UX216B.**  
**2B1034—CX316B.**  
List, \$7.50. NET **\$5.15**

## UX874—CX874

A voltage regulator tube designed to maintain constant voltage of "B" eliminators at different current drains.

**2B933—UX874 Radiotron.**  
**2B934—CX874 Cunningham.**  
List, \$5.50. NET **\$3.77**

## UX240—CX340 Hi-Mu Amplifier

Has an amplification constant of 30. Especially adapted to resistance coupled and impedance amplifiers. Gives splendid results in untuned antenna coupling stage. When used with regular A. F. transformers they peak sharply at 1,000 cycles which characteristic produces unusually great volume in code work but makes them unsuitable for broadcast reproduction with transformers. Filament voltage 5 volts; current 0.25 amperes; 135 volts plate.

**2B937—UX240 Radiotron.**  
**2B939—CX340 Cunningham.**  
List, \$2.25. NET **\$1.54**

## UX280—CX380 Full Wave Rectifier

New type oxide coated ribbon filament. Very sturdy with high emission at lower input. Requires fewer condensers in rectifying and filtering circuits. Have lower surge peaks. Provide quiet steady operation. Interchangeable with UX213—CX313. Filament Voltage 5 volts; current 2.0 amperes; A. C. Plate voltage (maximum) 300 volts; D. C. output current (max.) 125 milliamperes.

**2B940—UX280 Radiotron.**  
**2B941—CX380 Cunningham.**  
List, \$5.50. NET **\$3.77**

## UX281—CX381 Half Wave Rectifier

New type oxide coated ribbon filament. Very sturdy with high emission at lower input. Requires fewer condensers in rectifying and filtering circuits. Have lower surge peaks. Provide quiet steady operation. Interchangeable with UX213—CX313B. Filament voltage 7.5 volts; current 1.25 amperes; A. C. Plate voltage (Max.) 750 volts; D. C. output (Max.) 110 milliamperes.

**2B935—UX281 Radiotron.**  
**2B936—CX381 Cunningham.**  
List, \$9.50. NET **\$6.51**

An A. C. Ballast Tube to regulate input voltage across the primary of "B" eliminator transformer with special equipment designed for it. Will hold the primary voltages constant regardless of variations in the A. C. house lighting circuit. C376 requires mogul socket.

**2B6361—List, \$6.50.**  
NET **\$4.46**

## The New AC Tubes

### UY227—CY327 A. C. Detector

A detector tube containing a heater element operating from alternating current. Intended for use with UX226 type amplifier tubes. Heater voltage 2.5 volts; heater current 1.75 amperes; D. C. Plate voltage 45-90 volts. Has special 5 prong base.

**2B942—UY227 Radiotron.**  
**2B943—CY327 Cunningham.**  
List, \$6.00. NET **\$4.12**

### UX226—CX326 A. C. Amplifier

An amplifier tube; the filament being operated from alternating current. For I. F. amplification or transformer coupled A. F. amplification, not suitable for detection. Filament voltage 1.1 volt; current 1.05 amperes; D. C. plate voltage 90-90.

**2B944—UX226 Radiotron.**  
**2B945—CX326 Cunningham.**  
List, \$3.00. NET **\$2.05**

## The New DAVEN AC Tubes

After many months of scientific research, the Daven Engineers have perfected a complete line of A-C tubes. They have four prongs to fit any standard socket. One outstanding refinement is the use of a specially coated Platinum filament which is instrumental in eliminating tube noises and prolongs life. This increases the cost of manufacture considerably, but is the reason why the life of these tubes is greatly increased.

**AC-1—Radio Frequency Tube.** This tube should be used in all radio frequency sockets and in the first audio frequency socket where transformers are used.

**2B6501—List, \$5.00.**  
NET **\$3.50**

**AC-15 Special Audio Amplifier Tube.** Increases distance, volume and clarity. Also should be used in audio sockets of resistance and impedance coupled systems. Amplification Constant 15.

**2B6502—List, \$6.00.**  
NET **\$4.20**

**AC-D—Special Detector Tube.** Suitable for use in all circuits. Due to filament construction, current in filament is so distributed as to reduce A-C hum to minimum.

**2B6503—List, \$6.00.**  
NET **\$4.55**

**AC-10—Power Tube.** A real power tube designed to operate on 400 volts of "B" battery. Should be used in last audio stage only. Exceptionally long life.

**2B6504—List, \$10.00.**  
NET **\$7.00**

## Daven Rectifier Tube

**AC-R—Rectifier Tube.** A single wave rectifier, which has exceptionally long life. Permits the building of a "B" eliminator which operates from the same line as the set.

**2B6505—List, \$10.00.**  
NET **\$7.00**



## Jefferson Tube Rejuvenator Doubles and Triples Tube Usefulness

At its small cost the Jefferson Tube Rejuvenator soon pays for itself many times over in its saving of tubes and batteries. This device will keep tubes at full efficiency at all times.

**3B1710**—For all type tubes. For use on 100 to 120 volt 50 to 133 cycle A. C. Retail price, \$4.50. **NET PRICE**..... **\$2.65**

**3B1746**½—For use on 100 to 120 volt 25 to 40 cycle A. C. List, \$6.00. **NET**..... **\$3.75**

### Jefferson Tube Charger

Will charge all types of tubes while in set. Rejuvenates and restores efficiency. Operates from 110-v., 60 cycle A. C. **3B1748**—List, \$4.50. **NET**..... **\$2.65**

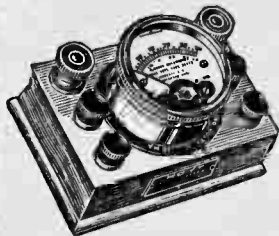


### Sterling B-Eliminator Voltage Tester



An accurate high resistance volt-meter. Will test any battery or D.C. circuit up to 300 volts. Any serviceman or set owner can get the actual output of any "B" eliminator in a quick and specific manner. Set owners use it to get the right socket power voltage for set operation. Never before has such a high resistance tester been available at this remarkably low price. Scale 0-300 volts. Size, 3x5x1¼ in. long. Shipping weight, 1½ lbs. **3B1741**—List price, \$8.50. **NET**..... **\$4.99**

### Hoyt Radio Rotary Meter



A precision volt-ammeter. D'Arsonval Type. Resistance 70 ohms per volt. Combines all ranges necessary for radio testing—0-15 M.A.; 0-75 M.A.; 0-7.5 Amps; 0-75 volts; 0-150 volts. Can be used in circuit continuously. By turning meter any scale can be used without breaking the circuit. Mounted on a beautifully polished mahogany base. All scales are calibrated by hand in comparison with standard laboratory

meter. Quantities as small as ¼ M.A. or ½ volt easily read. Dimensions overall 4½x3¼x2¼ in. Shipping wt. 3 lbs. **3B1922**—List, \$24.00. **NET**..... **\$15.48**

### Jewell Radio Service Set



The Jewell Portable Radio Service Set meets every demand of radio servicing. In its neat, compact case is every instrument and device required to test every part of a set—tubes, batteries, B eliminators and chargers. There are two meters; a voltmeter with four different ranges from zero to 7, 70, 140 and 280 volts for testing A battery, B batteries and C battery or B eliminator; a combination meter with range for total filament current or charging rate, of zero to 7 amperes, zero to 14 milliamperes for tube testing and zero to 70 milliamperes for total plate current or B eliminator output. Also a rheostat and tube socket are provided and are arranged to test any type of tube.

A battery compartment is provided to hold four No. 6 dry cells; six small 22½ volt B batteries and three 7½ volt C batteries. Connections are arranged so that current in any of the following voltages is obtainable: 4½, 6, 7½, 9, 22½, 45, 90 and 135 volts.

In addition there is a compartment to hold wire leads, tools, etc. The whole set is made as compact and light as practical. The case is of best reinforced three ply construction and is covered with durable black imitation leather. A good service man with this test set will more than pay for every service call he makes. Not only will he render efficient and satisfactory service, but if he has sales ability he will pick up profitable orders for extra parts, such as instruments for testing batteries and tubes, B eliminators, chargers, lightning arresters, loud speakers, etc. Shipping wt., 25 lbs.

**3B1700**—List price without tools or batteries, \$57.40. **NET PRICE**..... **\$78.00.**

### Readrite No. 210—Tube Checker

Has 0-6 voltmeters, 0-10 milliammeters, a d. c. b. i. a. switch, rheostat, standard socket and binding post for making connections—all assembled on neatly finished metal case. Instructions for using included. Shipping wt., 2 lbs.



**3B1751**—List, \$4.41. **NET**..... **\$7.50.**

**3B1752**—Connecting cord with plug to connect to socket of set. List, \$1.00. **NET**..... **66c**

### Sterling "Home" Tube Tester R-411



For testing all large tubes, including 300-A, 112 and 171 types. Simple to operate—exchange positions of tube and tester plug, adjust indicator hand to arrow through rheostat on receiver and press tester button. Indicator hand shows whether tube is "good," "fair" or "poor." No computations. Size, 3x5x2¼ in. high. Shipping wt., 3 lbs.

**3B1700**—List, \$7.50. **NET**..... **\$4.40**

### Jefferson Tube Checker

Shows exact condition of any tube in the set. Tests all type tubes with standard or X base. Shipping weight, 3 pounds. **3B1749**—List, \$2.65. **NET**..... **\$6.00.**



### Sterling Tube Tester—Professional Model



Checks all tubes including the 171 power amplifier and 200-A detector. Equipped with a rheostat and meters—filament 0-8 volts, plate volts 0-120 and milliamperes 0-15 scale. Requires no battery. A tube socket adapter is supplied with each tester. Size, 6½x8½x3 in. Adapter for UV199 and C299 tubes furnished complete with instructions.

Shipping weight, 6 lbs. **3B1703**—Retail price, \$25.00. **NET PRICE**..... **\$15.75**

### Sterling "Metered" Tube Rejuvenator R-403

For large and small tubes, including 300-A, 171 and all tubes having thoriated filaments. Emission meter enables the user to determine instantly whether a tube needs reactivation and to what degree the filament emission has been restored by the process. Handle on back. Adapter for small tubes included. Size, 6x7½x5 in. Shipping wt., 8 lbs.



**3B1704**—List, \$12.50. **NET**..... **\$7.35**

### Readrite Home Tube Tester



Equipped with an accurate milliammeter. Meter detachable for other testing. Is provided with a switch which places a bias on the grid allowing the meter reading a wide range of deflection. Tests the amplifying efficiency of the tube, also detects shorts. Simple instructions accompany each tester. For all 3 and 5 volt tubes. Shipping wt., 1½ lbs.

**3B1742**—List, \$3.00. **NET**..... **\$1.95**

### Sterling "Universal Service" Tester

Used either with "A" and "B" batteries or "A" and "B" socket power units. Tests large and small tubes up to and including 171 type. Milliammeter shows amplifying strength of tube. Combination voltmeter tests both the "A" and "B" battery voltages. Locates defective circuit wiring, open transformers, poor contacts in sockets, etc. Voltmeter 0-10, 0-200 scale. Milliammeter 0-15 scale. Wiring diagram of battery hook-up for counter testing furnished. Size, 6½x7¼x3½ inches high. Shipping weight, 5½ pounds.



**3B1745**—List price, \$25.00. **NET**..... **\$14.70**

# New World's Record Super Ten

THE MOST POWERFUL RECEIVER IN RADIO



**As Specified by Citizens Radio Call Book**  
**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 stations once or twice, but the World's Record Super proved its claim to constant 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—on 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, 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

The ten tubes, used in the World's 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 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.

## This Newest Model

The New World's Record Super 10, the latest design by Mr. Scott, is the culmination of all the virtues of its predecessors, together with all the latest refinements of proven merit, and the latest discoveries of the extensive research laboratories wherein the World's Record Super 10 was developed. In sharp contrast to other receivers of this type and previous models, the Super 10 is designed for antenna operation. This makes it

## Front View of World's Record Super 10



possible to incorporate the advantages of two stages of tuned RF ahead of the detector in connection with a short antenna of from 20 to 30 feet, conveniently placed around a mounting or other inconspicuous place. This new departure provides sensitivity and selectivity heretofore never possible with a loop pickup arrangement.

The set has only two non-critical tuning controls that are actively used, an ingenious gang control arrangement obviating the necessity of the constant adjustments usual with other receivers.

In appearance, this receiver has no peer or equal. It has that intriguing quality of mechanical intricacy which commands the attention and admiration of the most sophisticated engineer—and yet is so beautiful from the mechanical and artistic standpoint that the most discriminating will readily recognize it as the most outstanding receiver of the season.

This receiver uses 201-A type tubes in all except the last stage. A 210 or 310 type tube is used in the last stage, so that the great volume is handled with no distortion, producing those pure life-like tones so necessary to good radio reproduction.

## List of Parts

1 Formica Panel 26x7 $\frac{3}{4}$  Dr. and Engr., \$6.70; 1 Formica Sub-panel 25x10x $\frac{3}{4}$  Dr., \$7.00; 1 Remler 3 in. Line Cond. No. 633, .00035 mf., \$15.00; 1 Remler Cond. .00035 mf., \$5.00; 1 Remler 110L Drum Dials, \$4.50; 1 Remler 110R Drum Dial, \$4.50; 2 Remler Choke Coils @ 90c, \$1.80; 2 Thordarson R 200 Audio Trans. @ \$8.00, \$16.00; 1 Thordarson No. 76 Output Trans., \$6.00; 2 Selectone L. W. Trans. No. B-500 @ \$6.00, \$12.00; 2 Selectone L. W. Trans. No. B-510 @ \$6.00, \$12.00; 2 Selectone R. P. Trans. No. B-520 @ \$5.00, \$10.00; 1 Selectone Ant. Coupler, \$5.00; 1 Selectone Osc. Coupler, \$5.00; 10 Benjamin Sockets, \$5.00; 1 pair Benjamin Brackets, 75c; 1 Carter Rheo. 11-15-8-15 ohms (with switch), \$1.50; 1 Carter Rheo. 30 ohms, \$1.00; 1 Carter Power Rheo. MV-1 ohm, 75c; 1 Carter Imp. Pat. Ir-400 ohms, \$1.25; 1 Carter .00055 mf. Fix Cond. with clips, 50c; 1 Carter .002 mf. Fix. Cond., 50c; 1 pair Carter No. 1 Pip Jacks, 20c; 1 SJS No. 340 Midget Cond., \$1.50; 1 Jewell Voltmeter, 0-8 volts, Pat. 135, \$7.00; 4 Tobe 1 mf. By-Pass Condensers @ \$1.25, \$5.00; 1 Tobe Grid Leak, 3 meg., 50c; 1 Jones 10 Contact Plug and Cable, type 1M, \$3.50; Miscellaneous Screws, Lugs, Nuts, etc., 65c; 1 Pkg. Belden Colorrubber Wire, 40c; Blue Prints, 25c.

**3B390**—Complete set of parts. List, \$139.35. **\$85.75**

Shipping weight, 25 lbs.

## Matched Selectone Units for Sub-Panel Mounting

**3B425 I**—No. B-500 Intermediate Transformer. List, \$6.00. NET, \$3.81  
**3B3252**—No. B-510 Tuned Filter. List, \$6.00. NET, 3.81  
**3B4253**—No. B-520 Radio Frequency Transformer. List, \$5.00. NET, \$3.18  
**3B4254**—No. B-530 Antenna Coupling Unit. List, \$5.00. NET, \$3.18  
**3B4255**—No. B-540 Oscillator Unit. List, \$5.00. NET, 3.18

The widely known accuracy of design and precision of manufacture represented in all Scott products is embodied in each of these units, which are essential in the construction of the new World's Record Super Ten. May be used in practically any circuit. Housed in a highly polished Bakelite case with all terminals plainly marked. Shipping wt., 1 lb.

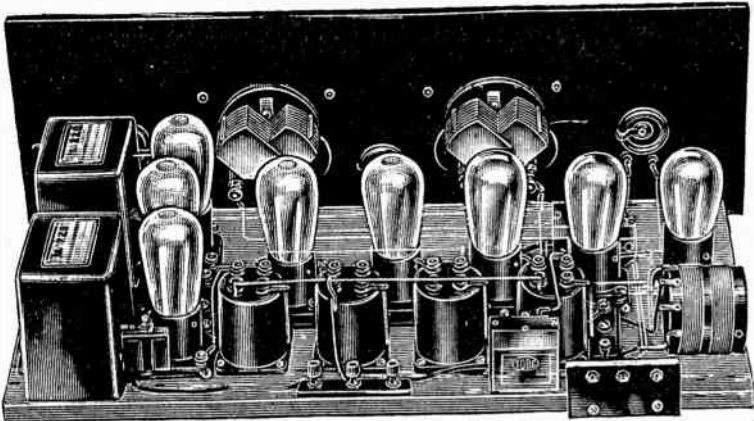




# The World's Record Super 8

A World-Wide Favorite

Net **\$51<sup>95</sup>**



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.

### LIST OF PARTS

2 Remler Condensers No. 649 .0005 mf. @ \$5.00, \$10.00; 1 Hammarlund Midget cond. .00005, \$1.80; 2 Selectone transformers R400 @ \$6.00, \$12.00; 1 Selectone Oscillator Coupler No. 340, \$3.50; 2 S. M. Audio Transformers @ \$8.00, \$16.00; 2 Selectone Transformers R110 @ \$6.00, \$12.00; 8 Benjamin Sockets (4 types), 2 Toho 1 m. f. By-Pass Condensers @ \$9.00, \$18.00; 1 Carter .002 mf. Fix. Cond., 50c; 1 Carter HI-Ohm, 500,000 ohms, \$2.00; 1 Carter Imp. Rheo 30 ohms, \$1.00; 1 Carter 1 1/2 ohm Fixed Res., 25c; 1 Carter Imp. Rheo. with 1 sw. 6 ohms, \$1.50; 3 Carter Tip Jacks No. 10 @ 10c, 30c; 1 Carter Jack No. 1, 25c; 3 XL Binding Posts @ \$2.00, \$6.00; 1 Kurz-Kasch Dial 360 degrees @ \$2.00, \$4.00; 1 Bakelite Panel 7x12 1/2 in., \$6.00; 1 Wooden Baseboard 9x23 in., \$1.00; Miscellaneous Lugs, Screws, etc., 50c; 20 ft. bus bar No. 14, 25c; Blue Print, 50c; Jones Multiplug BM, \$2.50.

**3B352—Complete set of parts.**

List Price, \$84.10. NET.....

Shipping weight, 25 lbs.

**\$51<sup>95</sup>**

### Scott Selectone Transformers for Baseboard Mounting

These are transformers which make the World's Record Super Nine so good. Type R400 is an intermediate transformer with closed iron core. Peak frequency of 45 K. C. Type R500 is a tuned stage transformer of the air core type. All are matched to within a fraction of 1 per cent, assuring perfect results. A true laboratory product. Shpg. wt., 1 lb.

**3B421C—Selectone R400, \$3.90**  
List, \$6.00. NET.....  
**3B421I—Selectone R410, \$3.90**  
List, \$6.00. NET.....  
**3B425E—Selectone Oscillator Coupler, \$2.33**  
List, \$3.50. NET.....



### New Selectone Two Stage RF Super Amplifier

This unit uses the new Selectone R. F. transformers and is specially designed for addition to existing supers, enabling them to obtain loud speaker volume on distant stations that previously were hard to get on phones. The reason for this is simply explained. The ordinary super can only amplify the signals detected by the 1st detector. This new amplifier adds two stages of tuned R. F. AHEAD of the 1st detector which picks up and amplifies signals that previously were too faint to be picked up by the 1st detector alone.

In addition to increasing range, this unit will increase the general selectivity considerably and reduce the number of harmonics or repeat notes on strong local stations. Full-sized blue prints and wiring diagram are packed with each kit and show exactly how to add to your present super.

This unit may also be used with a detector and audio unit to make a very efficient tuned radio frequency receiver. It is very well adapted for this purpose and will enable the builder to have a unit which can be used with any set to increase the range and selectivity.

### LIST OF PARTS

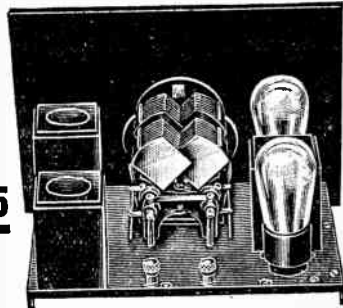
1 Remler two gang cond. .00035 mf., \$12.00; 1 Kurz-Kasch Vernier Dial, \$2.00; 2 Selectone R. F. Transformers, B 520 @ \$5.00, \$10.00; 1 Selectone Transformer B530, \$5.00; 1 Carter Rheo IR-15 ohms, \$1.00; 2 Benjamin Sockets (unmd.), \$1.00; 1 pair R-34 brackets No. 450, 70c; 2 XL binding posts, \$1.00; Ant., 3B666—Gnd., 30c; 1 Bakelite Panel 7x12 1/2 in., \$3.00; 1 Bakelite Subpanel 7x10 3/16, \$2.60; 1 Jones Multiplug Type BM, \$2.50; 1 Miscellaneous Lugs, screws, etc., 65c.

**3B353—Complete set of parts.**

List Price, \$40.75. NET.....

Specially Designed for Increasing the Range of any Super

**\$24<sup>95</sup>**  
NET



in., \$3.00; 1 Bakelite Subpanel 7x10 3/16, \$2.60; 1 Jones Multiplug Type BM, \$2.50; 1 Miscellaneous Lugs, screws, etc., 65c.

Shipping weight, 10 lbs.

**3B353—Complete set of parts. \$24<sup>95</sup>**

List Price, \$40.75. NET.....

### B Supply Unit for New World's Record Super Ten

The World's Record Super 10 is a powerful set and requires more B current to run it than the ordinary receiver. The writer has personally tested most of the leading commercial eliminators on today's market but could find none that would satisfactorily operate the WRS10. Practically all of them are designed to operate a 171 power tube with a maximum of 180 volts. While the 171 is very fine it cannot begin to give the results secured with the 210 power tube used in World's Record Super 10. The maximum undistorted output of a 171 at 180 volts is 700 milliwatts. The maximum undistorted output of the 210 power tube at 425 volts is 1,540 milliwatts. This simply means that the 210 power tube will deliver more than TWICE the undistorted output of the 171.

This power unit will not only supply all the B current required but also lights the filament and provides the C bias for the 210 power tube. It requires less than two hours to build.

### The Following Parts are Supplied:

1 Thornderson Power Transformer No. 2098; 1 Thornderson Coker Coil No. 2099; 1 Sangamo or Toho R 210 Condenser Block; 1 Carter 8I-20M Resistor; 2 SM 511 Sockets; 7 Binding Posts; 7 hole Binding Post Strip; 1 Wood Baseboard, 8 1/2 x 10 1/2.

**3B6307—Complete set of parts.**

List, \$50.90.

NET.....

**\$30<sup>67</sup>**





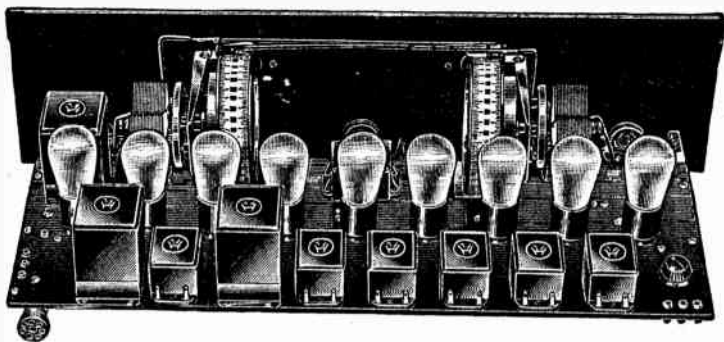
# The New Improved 9-in-Line Makes Greater DX Records



As Specified by Citizens' Radio Call Book

Easiest  
to  
Build  
—  
List

\$130<sup>85</sup>



Un-  
surpassed  
for DX

Net  
\$74<sup>95</sup>

There are thousands of experienced set users in this country who insist upon a radio receiver that reaches everything in the air, breaks through the most tangled interference and produces house-billing volume at all times. To them, the Nine-in-Line is recommended. Its record of popularity here in Chicago—perhaps the most difficult reception spot in America—is eloquent proof of its efficiency.

As an example, while 13 local (mostly super power) stations were broadcasting, it was a simple matter to tune in on a score of long distance stations on a midsummer night. In broad daylight, stations 600 miles distant were received with full loud speaker volume. Seldom if ever has such extreme selectivity and superior reproduction been accomplished.

This ideally balanced circuit employs four stages of R. F. long wave amplification bringing power for reaching great distances under any and all conditions. Tendency of highly amplified intermediate frequency signals to feed back into the audio system has been entirely overcome by the use of a special audio frequency transformer system.

### No Other Super as Easy to Build

One look at the illustration above shows you how very simple is the construction of the Nine-in-Line. It can be built much more quickly than the average four or five tube job. A notable feature of the H. F. L. layout is that there are no plate and grid leads, the base on the transformers fastening directly to the tube sockets. All wiring is placed under the sub-panel, with minimum length leads. Not a complicated part or turn about it, even the inexperienced builder can assemble it.

### Costs Little to Operate

Due to its all around efficiency, the Nine-in-Line takes a minimum toll on both "A" and "B" batteries. The filament control is extremely sensitive, the tubes functioning perfectly on low voltages.

### Wonderful Tonal Quality

The fully balanced system assures an extremely quiet operation. There are no regenerative howls or oscillations. It glides into station after station with uncanny smoothness. The sweetness, purity and faithfulness of reproduction of voice, instrument, high and low tones, is a delight to the most critical listener.

### A Favorite with Set Builders

Set builders could make no better selection of a super for their trade. It is quickly built. It presents a fine appearance. Its performance satisfies. Housed in one of the fine consoles shown on pages 107-115, it makes a receiver fit for the finest home.

### List of Parts

3 HFL Transformers No. 11210 @ \$8.00, \$24.00; 3 HFL Transformers No. H215 @ \$8.00, \$16.00; 2 HFL Transformers No. C-16, \$16.00; 1 HFL R. F. Choke No. L-425, \$5.50; 1 HFL R. F. Transformer No. L 430, \$5.50; 1 HFL Output Transformer, \$8.00; 5 Benjamin Sockets No. 9044 @ 50c, \$4.50; 2 Benjamin Brackets No. 8229, 70c; 1 Remier Drum Dial, one right, \$4.50; 1 Remier Drum Dial, 110L, \$4.50; 2 Remier, 0005 MF, Variable Condensers No. 110L, \$4.50; 1 Silver-Marshall No. 340 000025 Midget Condenser, \$1.50; 3 Carter 1 MF. By-Pass Condensers @ \$1.25, \$2.50; 1 Tobe 0005 MF, Fixed Condenser, 35c; 2 Tobe 0002 MF, Fixed Condensers @ 40c, 80c; 1 Carter 6 ohm Rheostat, \$1.00; 1 Carter 6 ohm Rheostat with switch, \$1.00; 3 Carter Cord Tip Jacks, 80c; 1 Carter 200,000 ohm variable resistance, \$2.25; 1 Daven 3/4 amp. ballast resistor with mounting, \$1.00; 1 Jones Multi-plug R. M., \$4.50; 1 Formica 7x26x3/4 drilled and engraved front panel, \$6.50; 1 Celeron 7x24x3/4, Drilled sub-panel, \$5.00; 1 Package Acme Celastite Wire, 80c; 1 Pkg. Kester solder, 25c; 1 Set Blueprints, \$1.50; Miscellaneous Lugs, Screws, Nuts, etc., 65c.

**3B365—Complete Set of Parts. List Price \$130.85. \$74<sup>95</sup> NET**

Shipping weight, 25 lbs.

### New H. F. L. Audio

The H. F. L. C-16 is one of the most efficient Audio Transformers built. Constructed to match perfectly the two circuits between which it is placed. Carries signals at highest volume without blasting or developing harmonics. Amplifies all frequencies equally. Specially treated silicon steel alloy core, with proper rapping and right density. Core saturation is impossible.

The correct size of wire and correct primary turns have been determined so that the impedance will be correct for the distinct amplification of low frequencies. Will operate with all power and standard type tubes.

—will work in any circuit and will improve any set. Shipping wt., 4 lbs.  
**3B4366—List Price, \$8.00. NET.....\$4.70**

### New H. F. L. Output Transformer

C-25 Output Transformer—same general design as audio transformer. Protects loud speaker, prevents distortion and blasting.

**3B4367—List Price, \$8.00. NET.....\$4.70**

### Famous H. F. L. Units

Designed for base board or invisible panel mounting. Enclosed and sealed in uniform size genuine bakelite mounting absolutely guaranteed against mechanical or electrical defects.

H-210—iron core transformer with high amplification factor. Range 32 to 42 kilocycles.

**3B4338—List price, \$8.00. \$4.70 NET**

H-215 Air Core Transformer, tuned stage, designed for maximum efficiency at 37 kilocycles.  
**3B4339—List Price, \$8.00. NET.....\$4.70**

L-425 Radio Frequency choke Unit. **\$3.23**

**3B4341—List Price, \$5.50. NET.....\$3.23**

L-430 Low Loss Radio Frequency Transformer and Oscillator Coupler. **\$3.23**

**3B4342—List Price, \$5.50. NET.....\$3.23**

### H. F. L. Push-Pull Transformers

Push-Pull Transformer C-167, C-168—The ultimate in quality. Cancels even harmonics, matched primary and secondary.

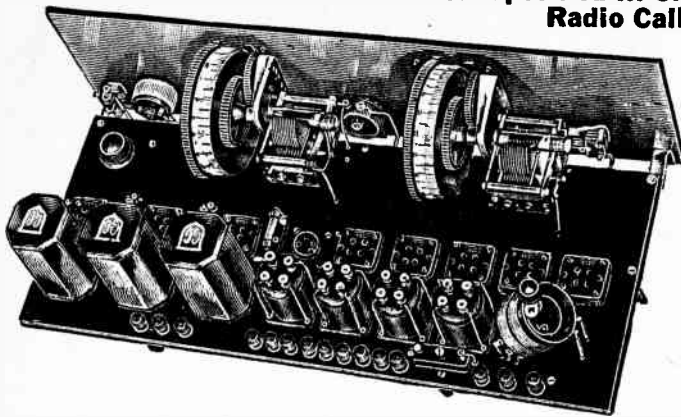
**3B4368—C-167 (Input). } List, \$9.00. NET.....\$5.29**  
**3B4369—C-168 (Output). }**





# The Improved REMLER 45 K. C. Super

As Specified in Citizens \$ **63<sup>75</sup>**  
Radio Call Book



The old Best circuit, which was so efficient and so popular, is the basis for this model. Two tuned and two untuned intermediate stages are used, so that the selectivity is very great. The transformers are so designed that they pass the harmonics over a 10 kilocycle band but yet have a very sharp cutoff to avoid interference. The audio amplifier consists of one stage a. f. and one stage of push-pull a. f. The famous Tyrman Transformers are used so that the reproduction is as nearly perfect as can be obtained.

All wiring is beneath the panel so that the interior is very attractive. The panel is very beautiful with its symmetric layout and the new Tyrman Drum Dials. These dials make tuning very easy and simple. They can be tuned very closely as they have a built-in Vernier attachment.

The builder will find that this set will give even better results than the excellent set which preceded it, both in tone quality and in distance. Its selectivity is proverbial and no difficulty will be had in using it in the most congested broadcast areas. The set is very easy to build when following the complete instructions furnished. The wiring is simple.

### LIST OF PARTS

2 Camfield .0005 m. f. Var. Cond. @ \$5.00, \$10.00; 2 Remler Transformers No. 610 @ \$5.00, \$10.00; 2 Remler Transformers No. 600 @ \$6.00, \$12.00; 1 Dubilier .006 m. f. Fix. Cond. @ 35c, 70c; 2 Dubilier .0025 m. f. Pix. Cond. @ 40c, 80c; 1 Dubilier 1 m. f. By-Pass Cond., 80c; 1 Dubilier .5 m. f. By-Pass Cond., 75c; 1 Daven 2 meg. Grid Leak, 50c; 1 Daven Grid Leak Mtg., 35c; 1 Silver-Marshall .00025 Midget Var. Cond., \$1.50; 1 Camfield Osc. Coupler, \$3.50; 1 Frost 10 ohm Rheo., 75c; 1 Frost 30 ohm Rheo., 75c; 1 Frost 25 ohm Rheo., 75c; 1 Carter Jack, 60c; 1 Carter Jack, 80c; 8 Frost Sub-Panel Sockets @ 40c, \$3.20; Benjamin X Socket, 75c; Ampertite No. 4A, \$1.10; Ampertite No. 1A, \$1.10; Eby Eng. Blind Posts @ 15c, \$2.10; X-L Variodensers G-5, \$1.50; Tyrman Drum Dials, \$10.00; Tyrman A. F. Trans., \$8.00; Tyrman

Push-Pull Trans., \$10.00; Tyrman Output Transformer, \$10.00; Set Karas Brackets, 70c; Micarta 7x25x3/4 in. Dr. and Engr. Panel, \$6.00; Micarta 10x25x3/4 in. Dr. Sub-Panel, \$8.40; Pkg. Kester Solder, 25c; Miscellaneous Wires, Screws, Nuts, etc., \$1.65; Pkg. Acme Celastite Lugs, \$1.80; Blueprint, \$1.50.

**3B366—Complete set of parts. List \$63<sup>75</sup>**  
Price, \$110.45. NET. Shipping weight, 25 lbs.

## Remler Condensers



Dial rotates through full 360 degrees, giving greater separation of stations. Special adjustment permits variation of capacity at zero dial setting, allowing compensation for differences in coil construction, matching tuned circuits very accurately. Both sets of plates rotate. Driven by Bakelite gears; no body capacity. Shipping weight, 2 to 5 lbs.

No.	Description	List	Net
3B4153	Single SLF., .00035 MF.	5.00	\$2.94
3B4154	Single SLF., .0005 MF.	5.00	2.94
3B4155	Single SLF., .001 MF.	5.00	2.94
3B4156	Single SLW., .00035 MF.	5.00	2.94
3B4157	Single SLW., .0005 MF.	5.00	2.94
3B4158	Double SLF., .00035 MF.	12.00	7.05
3B4159	Double SLW., .00035 MF.	12.00	7.05
3B4160	3-Gang SLF., .00035 MF.	15.00	8.82
3B4164	3-Gang SLW., .00035 MF.	15.00	8.82

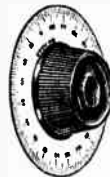
## Remler Drum Dial



Unquestionably the finest dial on the market. Smoothest running dial we have seen. Spiral gear drive quiet in operation. No back lash, vernier tuning to a hair's breadth. 15 inch dial space divided into 200 divisions. Embossed dial indicator. Calibration strips on dial for logging, 6 volt lamp and socket for illumination. Easily mounted. Will drive any standard condenser, single or in gangs. Template furnished. Shipping weight, 2 lbs.

**3B4166—Condenser Mounts on Left Side.**  
**3B4167—Condenser Mounts on Right Side.**  
List, each, \$4.50. NET, EACH..... **\$2.65**

## Remler Standard Dial



The well-known dial made of aluminum. Bakelite knob. Fits any 1/4 inch shaft. For 360 degree condenser. Cardboard dials for logging. Shipping weight, 4 oz.

**3B4168—No. 636 Remler Dial. 59c**  
List, \$1.00. NET.....

## Remler-Type 600 Intermediate Frequency Transformer



For 45000 cycle inter tube coupling where iron core transformer insures high voltage step up ratio and uniform primary impedance over efficient frequency range. Bakelite case, highly polished. Terminals marked plainly. Shipping weight, 10 oz.

**3B4128—List, \$6.00. NET..... \$3.53**

## Remler-Type 610 Tuned Stage Transformer



An air core transformer for the tuned stage. Used between last intermediate frequency tube and detector tube. Fixed tuning condenser clips on secondary terminals to tune to 45,000 cycles. Bakelite case with plainly marked terminals. Shipping weight, 10 oz.

**3B4129—List, \$5.00. NET..... \$2.94**

## Remler Choke Coil



No. 35 Choke Coil used for controlling path of radio frequency current to prevent generation of parasitic high frequencies. Used to advantage in any radio receiver. Case of moulded Bakelite: Size 1 inch diameter, 1 inch deep. Shipping weight, 6 oz.

**3B4165—No. 35 Choke Coil. List, 90c. NET, EACH..... 53c**

## Remler Improved Socket



Universal X type socket of moulded Bakelite. Very efficient contact spring, giving contact whole length of tube pin. Contacts self-cleaning. Screws and solder lugs on spring for good contact. Shipping weight, 2 oz.

**3B4624—List, 50c. NET, EACH..... 30c**



# The New 1928 Remler DX Infradyne



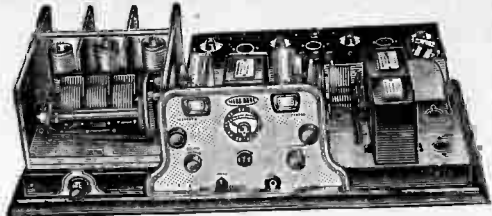
**Cabinet**

The cabinet problem is solved by a beautifully embossed copper cabinet finished in baked crystalline of a neutral shade. Length over all only 26 inches. You will agree with us that it is the finest kit you have ever seen. Times have changed. Home-buil construction ahead of the factory built set. In this set, all metal construction—illuminated drum control, complete shielding, automatic coupling—concealed wiring—hair splitting selectivity and the finest tone quality obtainable, make it the best set on the American market.

A screw driver and solder iron are the only tools needed to assemble this set in an evening's time. You may have 5 or 10 tubes at will by throwing a switch which is mounted on the panel.

### LIST OF PARTS

- 1 Remler Infradyne Foundation Kit includes panels, rheostats, dials, diagrams, jacks, switches, steel chassis, chokes, special coil, resistances, cables, nuts, screws, etc. . . . . \$52.00
- 1 Remier R. F. Amplifier, shielded with Antenna Compensator . . . . . 65.00



### As Specified in Citizens Call Book and Radio

- 1 Remler Infradyne Cabinet and base . . . . . \$15.00
- 1 Jewell 0-5 volt meter No. 135 . . . . . 7.00
- 1 Remier Infradyne Amplifier . . . . . 27.50
- 2 Silver-Marshall 220 Audlio . . . . . 16.00
- 1 Silver-Marshall 221 Output Trans. . . . . 7.50

List Net  
**\$105<sup>75</sup>**  
3B355—Complete . . . . . \$180.00  
Shipping wt., 40 lbs.

## REMLER Radio Frequency Amplifier



No. 710 R. F. Amplifier incorporates two stages of R. F. amplification and a detector. Entirely enclosed in a sheet copper case which gives complete electromagnetic shielding. Designed for use with Remler Drum Dial or ordinary 300 degree dial. An antenna compensator is supplied, which nullifies the detuning effect of the antenna on the first amplifier. Thus it is a true, single control amplifier. A switch is provided for selective or non-selective tuning. It is used in the new tune model Infradyne or it may be used with any audio unit to make an efficient tuned radio frequency

receiver. It includes solenoid coils, Remler 3-gank condenser, Remler sockets and special resistances. Put it on any set to increase the range and selectivity. Ship. wt., 15 lbs.  
**3B5774—Complete with Antenna Compensator. List, \$32<sup>34</sup>**  
\$55.00. Net . . . . .

## REMLER Infradyne Amplifier



The famous 86 meter intermediate amplifier, besides meeting the requirements of the Sargent Circuit, makes a very efficient 3-stage radio frequency amplifier in connection with all standard tuned radio frequency or neutrodyne sets. Makes a marked improvement in selectivity and sensitivity of any set. Instrument control of bakelite and nickel-plated brass on polished Bakelite panel. Shielded in a lacquered copper case. Shipping wt., 5 lbs.  
**\$16<sup>17</sup>**  
3B5795—List, \$27.50. Net, each . . . . .

## Infradyne Foundation Unit

Kit containing all parts needed for the construction of the model DX Infradyne receiver except the radio frequency amplifier, cabinet, Infradyne amplifier, voltmeter, and audio transformers. Included panels, rheostats, dials, diagram, jacks, switches, chokes, special coil, resistance cables, nuts, screws, steel chassis, etc. Shipping wt., 30 lbs.  
**\$30<sup>58</sup>**  
3B5778—List, \$52.00. Net . . . . .

## Infradyne Cabinet and Base

Cabinet is pure sheet copper embossed in two tone bronze crystal lacquer, with decorated wood base. Size 11x26 inches. (See illustration above.) Forms a complete shield for the set. Shipping wt., 10 lbs.  
**\$8<sup>82</sup>**  
3B5779—List, \$15.00. Net . . . . .

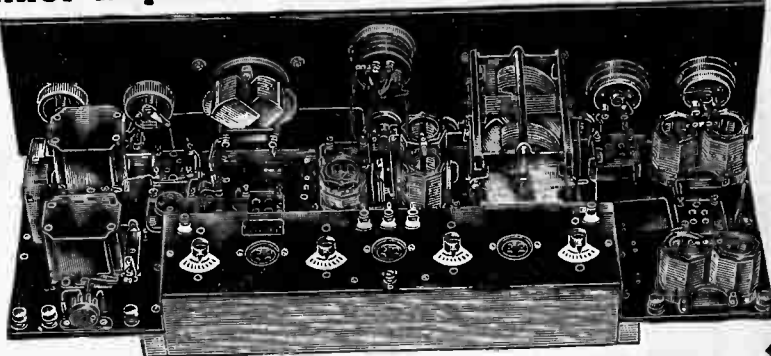
# The Remler Improved Infradyne Receiver

Ten tubes with Simplified Control. Two Stages R. F. Amplification, Oscillator, First Detector, 3 Stages of 95 Meter Amplification, Second Detector, and Two Stages of Audio Amplification. Only two tuning controls. R. F. being tuned by triple gang condenser; the oscillator by a single condenser. Simplified control made possible through use of Remler Infradyne amplifier, a very efficient device, amplifying at high frequencies, yet preserving the original tone quality. So designed that each station comes in at only one spot on the dial. Consistent distant reception and remarkably clear reproduction are the outstanding features of the set.

All parts supplied were carefully selected for this kit and the builder should have no trouble in following the instructions and making a duplicate of the laboratory model.

### LIST OF PARTS

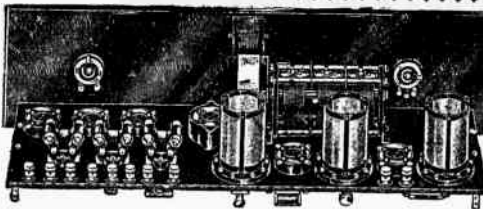
- 1 7x28 In. Dr. and Engr. Formica Panel, \$7.00; 1 8 1/2 x 27 3/4 In. Dr. Formica Sub-Panel, \$8.00; 1 Remier Type 700 Amplifier, \$27.50; 1 Remier 648 00035 MF Vari. Cond., \$5.00; 1 Cardwell 00035 2-Gang Variable Cond., \$12.00; 2 Silver-Marshall 25 mmfd Midret Cond. @ \$1.50, \$3.00; 1 Weston Model 506, 0-7-140 Voltmeter, \$9.00; 1 Pair Karas Sub-Panel Brackets, 70c; 2 Yaxley 30 ohm Rheo., \$2.70; 1 Electrad 500,000 ohm Variable Resistance, \$2.00; 1 Electrad 300,000 ohm Variable Resistance, \$2.00; 1 Frost Double Circuit Gem Jac., 50c; 1 Frost Type \$30 UX Sockets @ 40c, \$2.40; 1 Jones Multiplug with Cable, \$4.50; 1 American De Luxe 1st Stage Trans., \$10.00; 1 American De Luxe 2nd Stage Trans., \$10.00; 1 Type



- 112 Amperite, \$1.10; 1 Lynch Grid Lk. Mount, 35c; 1 Lynch 1 megohm Grid Leak, 50c; 1 Lynch 2 megohm Grid Leak, 50c; 1 Sangamo 0001 MF Fixed Condenser, 40c; 2 Sangamo 0002 MF Fixed Cond. @ 40c, 80c; 1 Sangamo 00025 MF Fixed Cond. G. S., 50c; 2 Toke 1 Mfd By-Pass Cond. @ \$1.25, \$2.50; 1 Set Camfield Type 22k Duotormers, \$10.00; 1 Special Oscillator Coupler—Camfield, \$1.25; 2 Kurz-Kasch Aristocrat Verrier Dials @ \$2.00, \$4.00; 5 Eby Engraved Binding Posts @ 15c, 75c; Screws and Nuts; 100 Tinned Soft Leads, 40c; 50 Feet No. 14 Gauge Tinned Copper Wire, 65c; 1 Pkg. Kester Solder, 25c; 1 Set Blue Prints and Instructions, \$1.00.

List Net  
**\$84<sup>43</sup>**  
3B354 Complete Set of Parts . . . \$133.61

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3



# AERO-SEVEN RECEIVER

## 10 Kilocycle Selectivity True Single Control

A new and unique hookup, incorporates 3 stages of R. F. and a 3 stage of A. F.—2 stages tuned R. F. and one coupling stage. The new 240 tubes (High-Mu) are used in R. F., detector, and one audio stage. One 171 and one 201-A and one 240 in audio.

Gives 10 kilocycle selectivity—a station for each point of the dial without interference. Tremendous volume with type 240 tubes having amplification factor of 30.

Low loss throughout. Perfect single control matching. Easy to build. Popular-priced. Range 200-550 meters. Coils used are matched at both high and low wave-lengths. Extremely sharp selectivity. Panel size is 7x24 inches.

**3B367**—Complete set of parts.  
List Price, \$59.05. NET  
**\$34.38**

Shipping weight, 1 1/2 lbs.



Panel View of Aero-Seven

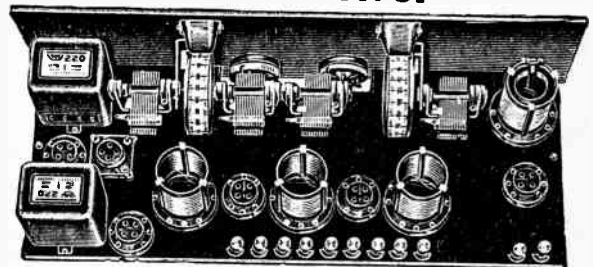
### As Specified by Citizens' Radio Call Book

#### List of Parts

3 Aero R. F. Transformers @ \$4.00, \$12.00; 1 Aero R. F. Choke Coil \$1.50; 1 Amisco .0005, Three gang variable condenser S. F. L. \$11.25; 6 Amisco Sockets @ 50c, \$3.00; 1 Amisco Floating Socket \$1.00; 1 Amisco 5 Megohm Grid Gate 50c; 1 Amisco Res. Mounting 30c; 1 Amisco R. C.-I Resistor Coupler Kit \$7.00; 1 Silver-Marshall Drum-Dial \$3.00; 2 Silver-Marshall Brackets 70c; 1 Carter 6 ohm Rheostat, Midset 50c; 1 Carter 200 ohm Potentiometer, Midset 75c; 1 Carter 8/10 ohm Fixed Resistance 25c; 1 Carter 1000 ohm Fixed Resistance 30c; 1 Carter Filament Switch 65c; 2 Carter .5 MF. By-Pass Condensers 90c; 1 Carter .001 MF. Fixed Condenser 50c; 1 Carter .00025 MF. Fixed Condenser 40c; 10 XL Lettered Binding Posts \$1.50; 1 Aero Seven Foundation Unit \$12.00; 1 Pkg. Acme Celatite Wire 80c; Miscellaneous Lugs, Bolts, Nuts, Etc. 25c.

## The Improved Aero-Six Receiver

The Aerodyne Six is a set with a national reputation for performance. Consists of 3 stages tuned radio frequency amplification, detector and two stages of audio frequency. By the use of the new aero universal coils shielding is entirely unnecessary. Very selective because of the three low loss R. F. stages yet broad enough to pass the necessary harmonics to give perfect reproduction. Only apparatus of proven merit and of nationally known manufacturers are used in the set. Actual size blueprints are included in the foundation unit, consisting of sub-panel and front-panel. Panel 7x24 inches. Set employs two dial tuning; uses five UX-201A tubes and one UX-171 tube.



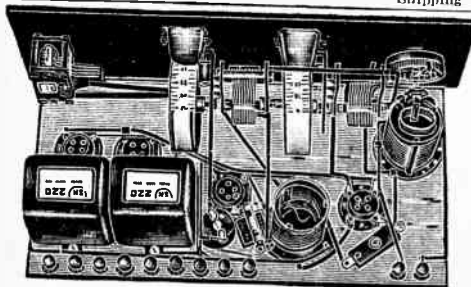
#### List of Parts

1 Aero-Dyne Foundation Unit \$12.50; 1 Aero U-16 Kit of Coils \$15.00; 2 Silver-Marshall Drum Dials \$6.00; 2 Silver-Marshall type 220 Audios \$16.00; 4 Hammarlund .0005 Condensers \$22.00; 1 Benjamin Socket, No. 9040 75c; 5 Silver-Marshall No. 511 Sockets \$2.50; 2 Tube 1 MFD. Condensers \$1.80; 1 Carter .00025 MF. Carter Grid Cond. with clips 50c; 1 Tube 2 Meg. Grid Leak, Tison 50c; 1 Carter .001 MF.

Condenser 50c; 1 Yaxley Switch Rheostat, 6 ohm \$1.75; 1 Yaxley Potentiometer, 200 ohm \$1.75; 1 Yaxley Fixed Resistance, 1 ohm 15c; 1 Polymet E-Z Grid Leak MFG. 50c; 11 XL Binding Posts \$1.65; 1 Screw Assortment 65c; 10 Lengths bus bar 25c.

**3B368**—Complete set of parts. List price, \$84.75. NET.....**\$47.95**

Shipping weight, 20 lbs.



## The Aero-Four The Chicago Daily News Four Tube Receiver

**\$32.35** Net

A four tube receiver using the famous aero coils. Will cut through the Chicago stations and bring in DX on any night. This is exceptional performance. Very sensitive, plenty of volume. Approved by many prominent Radio Engineers.

The tinker employed gives a new kind of regeneration that is smooth and even over the entire dial. Selectivity a salient feature. Tone is rich. Out-performs many 5 and 6 tube sets.

Easy to build in a very short time. Answers the need for an excellent inexpensive kit for the home builder. Instructions included.

#### List of Parts

1 Aero Foundation Unit \$5.75; 1 U-95 Aero Kit (2 coils) \$8.00; 2 .0005 Mfd. Amisco cond. \$7.00; 1 Amisco .00025 mfd. cond. \$3.00; 2 S-M Drum Dials @ \$3.00, \$6.00; 1 Yaxley 6 ohm Rheo. \$1.35; 1 Kurz Kasch Knob 20c; 3 S-M 511 Sockets \$1.50; 1 Benjamin X Socket 75c; 2 S-M Audio Trans. @ \$8.00, \$16.00; 1 Carter .00025 Condenser with clips 50c; 1 Tube 2 meg. Tison Grid Leak 50c; 1 X-L Condenser.

Model N \$1.50; 11 X-L Binding posts \$1.65; 1 Aero, 60 Choke coil \$1.50; 1 Miscellaneous screws 65c; 10 Lengths busbar 25c.

**3B369**—Complete set of parts. List price, \$56.10. NET.....**\$32.35**

Shipping weight, 20 lbs.

### R. F. Kit for Aero-Six

Kit consists of 4 twice matched coils; one Aero antenna inductance with variable primary and 3 Universal R. F. transformers. For use with 201A, 199, 112, 240 and A. C. tubes. Range 200-550 meters. Used in Improved Aero-Dyne 6. Shipping weight, 1 lb. 6 oz.

**3B1040**—U-16 for .0005 Condenser.  
**3B1041**—U-163 for .00035 Condensers.

List, Set, \$15.00.



**\$8.82**

NET

### R. F. Kit for Aero-Seven

Kit consists of 3 twice matched Coils—Three Universal R. F. transformers. Wound on bakelite skeleton forms. 95% air dielectric. Used with 201A, 199, 112, 240 and A. C. tubes. Range 200-550 meters. Used in Aero-Seven circuit. Shipping weight, 1 lb. 2 oz.

**3B1042**—No. U-12 for .0005 Cond.  
**3B1043**—No. U-123 for .00035 Cond.

List each kit, \$12.00.

**\$7.04**

NET

THE BARAWIK CO., CHICAGO, U. S. A.

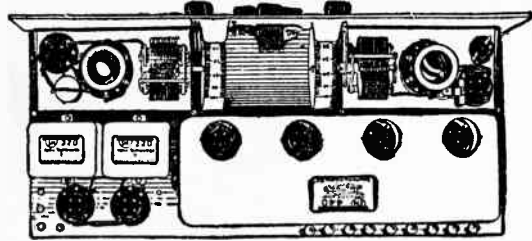




# Improved Silver Laboratory Model Super

Most Powerful and Selective

**\$52.35** Net



Consists of standard regenerative first detector circuit and a conventional oscillator, having tuning controls at ground potential and free of hand capacity. Following these two tubes is the new S-M 440—(112KC) 3 stage, long wave amplifier and detector—a completely shielded, laboratory measured and calibrated long wave amplifier in one single compact unit. Then there are two stages of audio with S-M 220 transformers. All tubes, including the new A. C. tubes can be used with a great degree of efficiency. Used on a 20 or 40 foot antenna, in preference to a

loop, greater selectivity and sensitivity are obtained.

The performance is a revelation. So selective that, if pushed to the limit, it will separate local and distant stations less than 10 kilocycles apart. In comparative tests it will outperform any factory-built commercial receiver on the market, irrespective of the number of tubes. It is believed the most sensitive and selective set ever offered to the public. Supplied with or without stage shields, as they need be used only in congested broadcast areas.

**List of Parts**

1 Van Doorn Panel and Chassis Unit pierced with hdws., \$8.50; 1 Carter .00015 cond., with clips, 50c; 1 Carter M200 Potentiometer, 75c; 2 Tobe 1/2 mf. cond. at 75c. \$1.50; 1 Car-

ter 3 ohm Rheostat, 50c; 4 Carter No. 10 tip jacks @ 10c, 40c; 1 Carter Battery Switch, No. 2 Imp., 50c; 1 Tobe 2 meg. Grid Leak, 50c; 4 S-M No. 511 tube sockets @ 50c, \$2.00; 2 S-M 220 Audio trans. @ \$8.00, \$16.00; 2 S-M 805 Vernier Drum Dials @ \$3.00, \$6.00; 1 S-M 275 RF choke, 90c; 1 S-M 342 C. denser, \$1.50; 1 S-M 440 40 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 mf. Cond. @ \$3.25, \$6.50. **3B360—Complete. List, \$89.40. NET \$52.35**  
**3B361—Complete with Stage Shields. NET \$54.75**  
 List, \$97.40, NET.....

## Silver 630 Improved Shielded Six

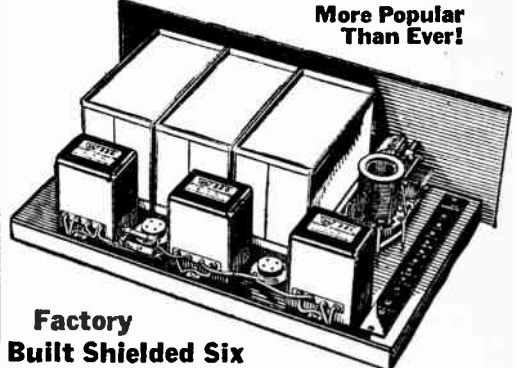
**\$55.85**

The 1927-1928 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 wave length range, give extreme sensitivity and selectivity to the receiver. Individual stage shielding prevents internal oscillation or the pick up of outside noise and interference. In tone quality the Shielded Six can be equalled by only a few of the very highest priced factory-built receivers, and is surpassed by none.

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

**3B385—Kit Complete. List, \$95.00. NET \$55.85**

Shipping weight, 45 lbs.



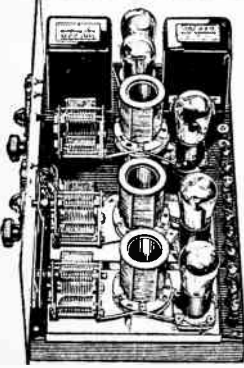
More Popular Than Ever!

### Factory Built Shielded Six

This receiver is made from the 630 kit, completely assembled and wired at the Silver-Marshall Factory. It carries the Silver-Marshall guarantee of performance, workmanship and materials. Comes in carved cabinet without accessories. Shipping weight, 55 lbs. **3B362—List Price, \$140.00, NET..... \$82.40**

### Light Socket Shielded Six

This kit contains all of the parts in the regular 630 kit, together with the necessary C bias resistances to make it a light socket set. It employs four UY227, one UX226 and one 171 type tube. Complete A, B and C power is supplied by using the 632A Reservoir B shown on the opposite page. Shipping weight, 40 lbs. No tubes nor eliminators included. **3B385 1/2—List price, \$99.00, NET..... \$59.40**



## Silver-Cockaday S-C-II Receiver

4 Tubes with the Power of Five

Represents the combined engineering skill of McCurdy Silver and Lawrence M. Cockaday. It is a two-dial five tube receiver (two stages r. f. detector and two stages transformer coupled A. F.) designed to equal or outperform any five tube receiver on the market. Its sensitivity is exceeded by no five tube set, its selectivity is ample and its tone quality guaranteed exceeded only by the Shielded Six. Has been given highest praise by authorities throughout the world. Can be used on long waves by using one S-M 116D and two 115D coils for

500 to 1,500 meters; or one 116E and two 115E for 1,400 to 3,000 meters. May be used with all tubes and power units.

**List of Parts**

2 316 B Cond. @ \$4.50, \$9.00; 1 316-A Condenser, \$4.50; 1 637 Double Link Motion, \$2.00; 3 515 Coil Sockets @ \$1.00, \$3.00; 4 511 Tube Sockets @ 50c, \$2.00; 2 220 Transformers @ \$8.00, \$16.00; 1 116-A Plug in Coil, \$2.50; 2 118-A Plug in Coils, matched @ \$2.50, \$5.00; 2 631 Stage Shields @ \$2.00, \$4.00; 1 Van Doorn Pierced Steel Chassis (17 1/2 x 9 1/2 x 1 1/2 inches); with hardware and insulation, \$2.00; 1 Van Doorn Pierced and Decorated Steel Panel (size 7x18 in.), \$3.00; 2 National Vernier Dials, type B, \$5.00; 1 Carter H-1/2 resistor, 25c; 1 Carter M-20 S Potentiometer, \$1.20; 2 Carter Tip Jacks, 20c; 1 Benjamin 0040 Socket, 75c; 2 Polymet 1 mfd. Condensers, \$2.00; 1 Polymet .002 Cond., 40c; 10 Eby Binding Posts, \$1.50.

**3B363—Complete. List price, \$64.35. NET.. \$37.15**  
 Shipping weight, 25 lbs.





## Transformers and Power Equipment

### 220 Audio Transformer

The finest produced regardless of price. Provides substantially straight-line amplification from 30-5000 cycles. Falls off at 5000 cycles, compensating against static, squeaks and noises above the musical range. Turns ratio 3-1. For use with all type tubes. Guaranteed to give more satisfactory quality than any other amplifying device. Weight, 4 lbs., 6 oz.

**3B4826**—List, \$4.70  
\$8.00, NET.....

### 221 Output Transformer

For use between last power tube and loud speaker. Prevents blasting or damage to speaker from direct current. Possess unique advantage of bringing out absent low notes from inferior amplifiers, or improving the tone quality of the best transformers. Its impedance matches the tube and loud speaker giving maximum energy transfer. Will improve any set using any loud speaker and any kind of tubes. Weight, 4 lbs., 4 oz.

**3B4827**—List, \$7.50, NET..... **\$4.41**

Type 222—Same as No. 221 except equipped with four phone tip jacks and a 5 foot heavy duty extension cord. Instead of four binding posts. Instantly attached to any radio receiver. Weight, 4 lbs., 5 oz.

**3B4832**—List, \$8.00, NET..... **\$4.70**

## Push-Pull Transformers

### 230 Push-Pull Input Transformer

Used either for the highest quality Push Pull Power amplifier that can be built, or as variable ratio audio transformer by virtue of its center tap, either 6-1 or 3-1. Weight, 4 lbs., 8 oz.

**3B4833**—List, \$10.00, NET..... **\$5.88**

### 231 Push-Pull Output Transformer

For use in conjunction with No. 230 in push-pull circuits or as an output transformer for, by means of center tapped primary, its impedance may be adjusted to match accurately, the plate impedance of the tube used. Weight, 4 lbs., 6 oz.

**3B4834**—List, \$10.00, NET..... **\$5.88**

## Power Transformers

### 325 Stepdown Transformer

Designed to supply 1½ and 2½ volts filament current required for the operation of all A.C. tubes as well as 5 and 7½ volts for the filaments of 112, 171, or 210 power tubes. Capacity 5 or 7½ volts at 3 amperes; 1½ and 2½ volts at 12 amperes. Provided with electrostatic shield and equipped with cord and plug. Weight, 4 lbs., 15 oz.

**3B4835**—List, \$8.00, NET..... **\$4.70**

### 329-A Super Power Transformer

Used with 313, 380, QRS, or Raytheon rectifiers and in addition to "B" supply, will furnish A and C power for A.C. and power tubes. Has two 250 volt, 125 MA secondaries; one 5 volt, 1 amp.; one 1½ volt 6 amp.; and one 2.5 volt, 6 amp. secondary. For 105-120 volt 60 cycle current. Complete with cord and plug. Weight, 5 lbs.

**3B4836**—List, \$11.00, NET..... **\$6.47**

### 328 Super Power Transformer

A full wave power transformer, for use with 216-B or 281 tubes. Contains 2-350 volt secondaries, rating 110 ma., 2-7½ volt 2.42 amp., 1-1½ volt 2.42 amp., windings and 1-110-120 volt 60 cycle primary. Cord and plug not included. Shipping wt., 8 lbs.

**3B4837**—List, \$18.00, NET..... **\$10.80**

### 331 Uni-Choke

A two winding high inductance choke licensed under the Clough Patent Application. Its tuned section eliminates the 120 cycle ripple. With only 7 Mfd condenser capacity, it will outperform two section chokes with 8-12 mfd capacity. Very satisfactory for use in impedance coupled amplifiers. Primary inductance 2 henries, secondary 47 henries at 60 MA load. Air gap to prevent saturation. Rated at 85 MA continuous duty. Weight, 4 lbs., 10 oz.

**3B4838**—List, \$8.00, NET..... **\$4.70**

### 332 Condenser Bank

A condenser block for "B" eliminator circuits where ballast or glow tube is used in conjunction with a filament or thermionic tube full wave rectifier tube. Contains 2-1 mfd, 2-1 mfd; 2-2 mfd, and 1-1 mfd filter condensers. Weight, 2 lbs., 2 oz.

**3B4839**—List price, \$12.50, NET..... **\$7.35**

## S-M Reservoir "B" Power Supply

The Reservoir "B" Power Supply is the only unit available on the market with glow tube voltage regulation. Guaranteed absolutely free from hum, motor boating or other troubles when operating with any standard receiver. The 90 volt tap furnishes up to 45 MA with only a variation of a few per cent. 45 volt tap has negligible variation up to 10 MA. Will operate 371 or other type power tube. Guaranteed to operate up to ten tubes. Has 329 A power transformer which also supplies A and C power for the new A.C. tubes. Weight, 13 lbs., 14 oz.

**3B5663**—652A complete (no tubes included). **\$21.46**  
List, \$36.50, NET.....

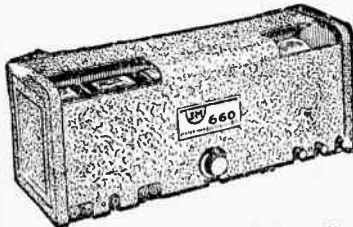
### 656A Wired Reservoir "B" Supply

**3B5664**—656A Reservoir B Assembled and wired by the Silver-Marshall factory. No tubes included. **\$23.80**  
List price, \$40.50, NET.....



## Unipacs Universal Push-Pull Power Packs

The S-M 660-210A Unipac and the 660-171A Unipac are the peers of all power packs in their respective fields, yet the prices are very low. They incorporate the great advantages of



push-pull power amplification and are "universal" in application as phonograph amplifiers, two-stage amplifiers, receiver B supplies, or complete ABC power supplies for receivers using the new AC tubes.

### 660-210A Unipac

The S-M 660-210A Unipac is the finest power pack obtainable on the market. Utilizes two CX316 rectifier, a CX374 glow tube for "B" voltage regulation and two CX310 tubes in a push-pull amplifier. Provides unequalled bass note reproduction and undistorted volume. Uses the 223 transformer so that it will supply 1.5 and 2.5 to 3 volts for receiver A power when A-C tubes are used. Supplied complete in a sealed S-M kit. Shipping wt., 35 lbs.

**3B5659**—Complete (no tubes included). **\$48.93**  
List, \$83.25, NET.....

### 666A Wired Unipac

**3B5660**—666A. The 660-210 Unipac completely assembled and wired (tubes not included) by the S. M. **\$54.83**  
factory. List price, \$93.25, NET.....

### 660-171A Unipac

The SM No. 660-171A Push-Pull Unipac provides a power pack vastly superior to any other 171 power pack on the market. Though the voltage amplification is 9 (with 171 tubes) as compared to 21 in the 660-210, the volume is amply sufficient for ordinary home reproduction, and the handling capacity is considerably greater than most 210 power packs. Has an extra tube socket so that it can be used as a complete two stage power amplifier or as a phonograph amplifier by the addition of a CX326 tube. Contains 329A transformer and will supply AB and C voltage to sets using AC tubes. Shipping weight, 40 lbs.

**3B5661**—Complete (no tubes included). **\$38.85**  
List, \$66.00, NET.....

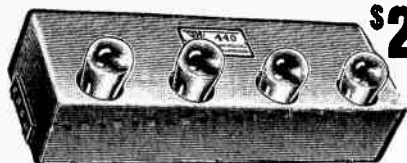
### 667 Wired Unipac

**3B5662**—667—The 660-171A Unipac completely assembled and wired by Silver Marshall (tubes not included). **\$44.65**  
List, \$76.00, NET.....

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3



## 440 Jewelers' Time Signal Amplifier



**\$20<sup>58</sup>**  
NET

The S-M No. 440 Time Signal Amplifier is a three-stage tuned R. F. amplifier, and detector, consisting of four extra-large size tuned air-core transformers and four tube sockets, properly by-passed, all wired up and sealed in a copper and brass cataromb, size 15x5x3 inches, and tuned exactly to 112 K. C., the 2677 meter wave length of the U. S. Naval Observatory Station at Arlington (NAA). Each of the four stages of the Amplifier is individually shielded. The selectivity of this unit is so great that interference from other wavelengths is impossible. With its large low resistance tuned air-core transformers, hermetically sealed, the amplification is tremendous—higher than that of any 3-stage long wave amplifier that can be constructed from standard parts today.

Jewelers wishing to set their clocks and watches accurately from the time signals transmitted direct from Arlington at 12 noon and 10 P. M. daily need only to connect up the Amplifier as shown by the instructions provided.

The S-M No. 440 Time Signal Amplifier is sold only in completely wired form, factory, sealed, laboratory tuned and calibrated for Arlington (112 K. C.). It is guaranteed for positive accuracy of peaking, and any unit will be repaired at the factory, free of charge (provided the seals have not been broken) at any time within one year after purchase should it prove unsatisfactory. Uses 201A type tubes throughout. Overall size, 15x5x3 inches. Weight, packed, 5 lbs.

**3B330—List Price, \$35.00. NET. \$20.58**

## S-M Long Wave Transformers

The S-M 210 and 211 long wave transformers with their black Bakelite cases (size 2 3/4 inches long, 1 1/2 inches wide, 1 1/2 inches high) are so well known the world over, as to require no introduction.



### 210 Intermediate Transformer

An iron core transformer of exceptional amplification supplied at any desired peak frequency from 50-60 K.C. for 201 type tubes, or from 60-70 K.C. for 199 tubes. Weight, 4 1/2 oz.

**3B4820—List Price, \$6.00. NET. \$3.53**

### 211 Tuned Stage Transformer

A sharply tuned air core transformer. Supplied tuned with fixed primary capacity, at any desired peak frequency from 50-70 K.C. for any type of tubes. Includes fixed condenser. Weight, 6 oz.

**3B4821—List Price, \$6.00. NET. \$3.53**

### Type 101-B Coupling Unit



Consists of bakelite stator tube having two 28 turn windings, and an adjustable rotor with a single 28 turn winding. Winding terminates at six solder lugs. An ideal oscillator for all circuits using .0005 mf. condensers. Range 150 to 550 meters. Weight, 5 oz.

**3B4822—List Price, \$2.50. NET. \$1.47**

### S-M R. F. Chokes

275—For short waves up to 600 meters. Impregnated winding encased in Bakelite housing. Inductance, 2 1/2 millihenries. Shipping weight, 4 oz.

**3B4829—List, \$0.90. NET. \$0.53**

276—Same as 275 for use above 600 meters. Inductance, 10 millihenries. Shipping weight, 4 ounces.

**3B4830—List, \$1.00. NET. \$0.59**



### 540 Sub-Panel Brackets



Nickel finished steel. 6 inches long, 1/4 inches high, 1/4 inch wide. Shipping weight, 7 oz.

**3B4803—List per pair, \$0.70. NET. \$0.42**

## S-M SHORT WAVE KIT, Page 83

## S-M Interchangeable Plug-In Coils



These coils have attained a justly deserved reputation of leadership. Confined magnetic field, extreme uniformity, most efficient low-loss design, suitable for all circuits. Made for all ranges from 15 to 3000 meters. Space wound on ribbed bakelite tubing having 5 x 6 threaded ridges, providing practically air support. Rotors are of green silk wire on small bakelite forms. Concentrated primary windings on some types are slot wound at the bottom end of the grid winding. Very good for single control work since all coils of one type are exactly alike. All coils are for use with .00035 mf. variable condensers.

Type 110-Stator consists of 2 equal windings and an adjustable rotor.

**3B4814—Type A, 190-550 meters.**

**3B4813—Type B, 70-210 meters.**

**3B4812—Type C, 30-75 meters.**

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

**3B4831—Type D, 500-1500 meters.**

**3B4845—Type E, 1100-3000 meters.**

List, \$5.00. NET. **\$2.94**

Type 111-Stator consists of single winding, concentrated slot primary and adjustable rotor.

**3B4807—Type A, 190-550 meters.**

**3B4808—Type B, 70-210 meters.**

**3B4809—Type C, 30-75 meters.**

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

**3B4810—Type D, 500-1500 meters.**

**3B4846—Type E, 1100-3000 meters.**

List, \$5.00. NET. **\$2.94**

Shipping weight, 110 and 111 coils, average 5 oz.

**3B4815—Unwound Bakelite form with hardware and rotor. Weight, 3 oz. List, \$1.25. NET. \$0.74**

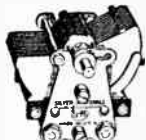
### 515 Coil Socket

Moulded Bakelite ring with 6 contacts to take all S-M plug in coils. 2 1/2 inches diameter, 1/2 inch thick. Shipping weight, 3 ounces.

**3B4816—List, \$1.00. NET. \$0.59**

### Type 316A Variable Condenser

Designed to provide the electrical uniformity and mechanical rigidity necessary for unit control circuits. Modified straight-line frequency type providing equal spacing of stations over entire dial. Plates of soldered brass plate assemblies swung in a rigid metal frame designed for base or panel mounting. Rotor and stator plates are lacquered and are adjustable as are both front and rear bearings. Made of nickel plated brass. Held together by steel tie rods. Capacity, .000007 to .00035 mfd. Weight, 1 lb.



**3B4905—List, \$4.50. NET. \$2.65**

### Type 316 B Condenser

Same as 316 A, except provided with extra long shaft. Weight, 1 lb.

**3B4906—List Price, \$4.50. NET. \$2.65**

### Type 317 Condenser

Similar to 316 A, except capacity is .000005 to .00014 mfd. Shipping weight, 1 lb.

**3B4907—List Price, \$4.50. NET. \$2.65**

**3B4915-SM—320 Condenser—.00035. Similar to 316-A, except lighter construction. 3 in. deep by 3 in. square. Shipping weight, 24 oz.**

List, \$3.25. NET. **\$1.95**

### Type 340 Condenser!

A small .000025 mfd. adjustable condenser, designed for compensating, balancing or antenna coupling. Brass plates, mounted on bakelite end plate. 1/2 inch wide, 1 inch deep, 1 1/2 inches high. Single hole panel or base board mounting. Complete with knob. Weight, 6 oz.



**3B4852—List, \$1.50. NET. \$0.88**

### Type 342 Condenser

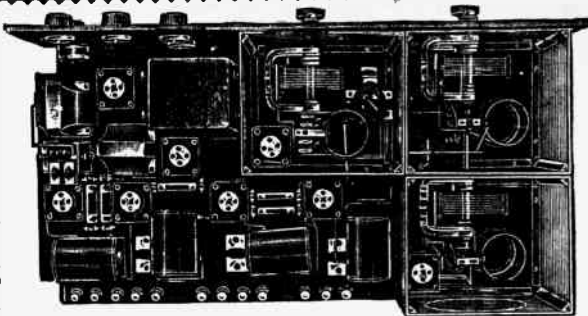
Same as 340, except capacity is .000075 mf. Shipping wt., 6 ounces.

**3B4801—List, \$1.50. NET. \$0.88**



# 8 Tube Strobodine

A Great New Circuit  
by  
Radio News Laboratories



A new circuit—not an adaptation of an old type. Designed by Lucien Ghribien, sponsored in America by R. E. Lacault and RADIO NEWS. Superhetrodyne type with entirely new frequency changer, operating on a new principle. Unexcelled for distance, with great selectivity. Outperforms best superheterodyne of today. Remarkable sensitivity. Stations come in at but one point of the dials. Tremendous volume, with no distortion. With this set, WGY heard in France on loop antenna one foot square. DX of 1,500 to 2,000 miles obtained consistently from the heart of New York's broadcast area. Fading and interference unknown quantities with this set.

Easily constructed by following directions included with kit, and the home-builder can easily duplicate the results cited here.

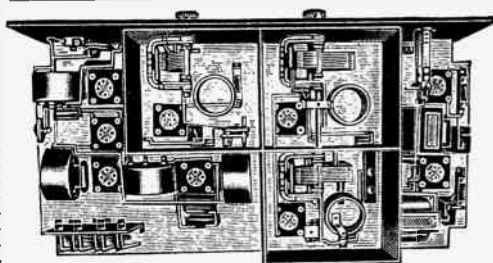
### PARTS SUPPLIED

3 Hammarlund Midline Condensers .00035 mf. @ \$5.25, \$15.75; 1 Set Hammarlund Strobodine Coils @ \$3.50, \$10.00; 1 No. 1 Hammarlund Shield, \$2.00; 2 No. 2 Hammarlund Shields @ \$2.00, \$4.00; 2 Hammarlund Equalizing Condensers @ 50c, \$1.00; 1 Brass Shaft 10 1/4 in. long, 25c; 2 Samson Symphonic Transformers @ \$10.00, \$20.00; 1 Samson No. 85 R. F. Choke, \$2.00; 4 Lacault Type F. R. F. Units @ \$4.50, \$18.00; 5 Lacault Fixed Matched Condensers @ 35c, \$1.55; 1 Micarta 8 in. x 3 1/2 in. x 3/4 in. Drilled and Engraved Panel, \$6.50; 1 Micarta 12x25 1/2 x 1/4 in. Drilled Sub-Panel, \$13.50.

1 Interstate Output Filter, \$6.50; 1 Cardwell Balanced Type 618-A .000035 mf., \$2.25; 3 Carter M-20, 20 ohm Rheostats @ 50c, \$1.50; 1 Carter M-400, 400 ohm Midged Potentiometer, 75c; 1 Carter No. 1 Open Circuit Short Jack, 25c; 1 Carter No. 2A Short Jack Closed Circuit, 30c; 1 Carter Imp. Battery Switch, 65c; 4 Dubilier .5 mf. By-Pass Condensers No. 907 @ 75c, \$3.00; 1 Dubilier .002 mf. Fixed Condenser No. 601, 40c; 8 Benjamin No. 9040 Sockets @ 75c, \$6.00; 1 Electrad Type B Royalty Variable Resistance, \$1.50; 4 Amperites Type IA @ \$1.10, \$4.40; 1 Amperite Type 112, \$1.10; 2 National Type B Dials @ \$2.50, \$5.00; 1 Blueprint and Instructions, \$1.75; 1 Miscellaneous Lugs, Screws, Nuts, 65c.

**3B340—Complete set of parts. List, \$77.95**  
\$130.55. NET.....

Shipping weight, 25 lbs.



### LIST OF PARTS

3 Hammarlund .00035 Condensers, \$15.75; 1 Hammarlund RF coil—No. RE-17, \$2.50; 1 Hammarlund Auto-Coupled RF coil—No. RE-18, \$2.50; 1 Hammarlund Auto-Coupled coil, \$3.50; 2 Hammarlund 50 mm. equalizing con. @ 50c, \$1.00; 6 Tobe 5 mf. fixed cond., \$5.40; 1 Tobe 1 mf. fixed cond., \$1.25; 3 .005 mf. fixed cond. Tobe @ 45c, \$1.35; 2 .001 mf. fixed con. Tobe @ 40c; 80c; 1 .00025 mf. fixed cond. Tobe, 35c; 2 AF transformer Thordarson @ \$8.00, \$16.00; 9 Benjamin Sockets @ 75c, \$6.75; 2 Marco Vernier Dials @ \$2.00, \$4.00; 2 Yaxley 20 ohm Rheos @ \$1.35, \$2.70; 1 Yaxley 400 ohm. potentiometer, \$1.75; 4 Amperite No. 1 A, \$4.40; 2 Amperite, 1/2 amp., \$1.10; 9 Binding Posts—Eby, \$1.35; 4 Madison Multichokes @ \$6.50, \$26.00; 1 Yaxley double circuit jack, 80c; 1 Yaxley single circuit, fil. control jack, 70c; 1 Yaxley switch, with pilot light, 75c; 1 Panel 8x24 1/2 in., \$6.41; 1 Baseboard 12x25 1/2 x 1/4, \$1.00; 3 Hammarlund 6x6x7 shields @ \$2.00, \$6.00; 20 Lengths Tinned Copper Bus Wire, 50c; 10 Lengths Spaghettil, \$1.00.

## The New Shielded Ultradyne

A Perfected 9 Tube Super  
as Specified in Radio News

The ultradyne circuit was one of the earliest and most popular superheterodynes. This new shielded Ultradyne presents some new features and many refinements.

A single stage of completely shielded tuned radio frequency amplification precedes the modulator circuit. This stage uses the most sensitive form of input employing an automatic-constant coupling system which provides equal transfer of energy on all wave lengths. The "Uni-Chokes" employed as the intermediate—frequency transformers are very efficient and have a frequency response curve far superior to that of most long wave transformers. The last stage of audio amplification employs a power tube. It is capable of producing an undistorted output of great volume. All important circuits are by-passed by large fixed condensers.

The complete layout consists of one stage auto-coupled, tuned r. f.; an oscillator; modulator; three stages long wave r. f. amplification and two stages of the very best transformer coupled amplification. The r. f. modulator and oscillator circuits are completely shielded.

Easy to wire and operate. Will give long distance reception with the clearest tones.

**3B345—Complete set of parts. List Price, \$115.61.**

**\$77.95**  
NET.....

Shipping weight, 25 lbs.

## New Silver-Marshall 240 Transformer



A new small transformer for replacement in present sets. Second only to S-M 220. Straight line amplification 30 to 5000 cycles then falls off to compensate for static and regeneration squeals. Turns ratio 3/1. Size, 3 1/2 x 2 1/2 x 2 1/4. Weight, 2 lbs., 4 ounces.

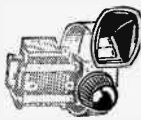
**3B1342—List, \$6.00. \$3.53**  
NET.....

**3B1343—241 Output Filter Unit. Similar to 240. Turns ratio 1/1.89. List, \$6.00. \$3.53**  
NET.....

## 805 Vernier Drum Dial

Attractive oxidized brass panel window. Simple to mount. Suitable for any type standard condenser. Universal for either right or left hand mount. Dial controlled by panel knob, and may be illuminated by the lamp bracket furnished. Size, 4x 4 1/2 inches. Shipping weight, 12 oz.

**3B4802—List, \$3.00. \$1.76**  
NET.....



## S-M Link Motions



180° mechanical links designed for coupling two or three condensers (4 inches between centers) together for single dial operation. Shipping weight, 6 ounces.

**3B4908—632 Triple for 3 condensers. List, \$1.47**  
List, \$2.50. NET.....

**3B4904—637 Double for 2 condensers. List, 1.18**  
\$2.00. NET.....

## 631 Stage Shield

An aluminum can with removable top and bottom. 7 1/2 x 5 3/8 inches, pierced for S-M condenser, 515 coil socket, tube socket, choke, by-pass condenser and all leads. Weight, 12 ounces.

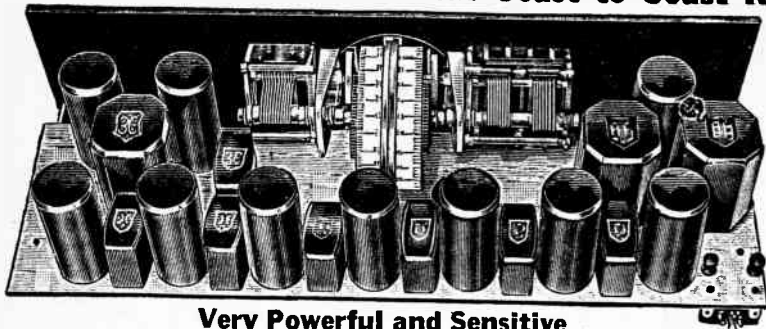
**3B4850—List, \$2.00. NET, \$1.18**



WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

# THE GREAT TYRMAN TEN

## Radio's Most Powerful Coast-to-Coast Receiver



ONE SPOT  
TUNING

**\$81<sup>95</sup>**

Net

As Specified  
in Citizens  
Radio Call  
Book

### Very Powerful and Sensitive

This is one of the outstanding ten-tube receivers of the 1928 season. Described in the September issue of the Citizens Radio Call Book. Each tube functions at full value of efficiency. This set is destined to put set building far ahead of the previous stages of development and constitutes an achievement of unceasing engineering progress.

#### Superior Selectivity and Tone

The Tyrman Ten is a receiver of great selectivity and unexcelled tone. The radio frequency transformers are matched to within a fraction of one per cent. They are designed for more amplification—better selectivity—stable operation. True Ten kilocycle separation of stations is maintained yet the design is such that the odd harmonics are all amplified properly. This property makes the reproduction pure and natural. To further the tone qualities, a new audio transformer has been designed. The program is amplified to life-like volume—all the notes, round, clear, and full—from the deepest organ bass to highest piccolo note. The amplification curve is ideal for reproduction no matter what speaker is employed to interpret the output.

#### True One Spot Tuning

The long sought advantage of one spot tuning has been accomplished in this receiver. A station is received at only one point on the dials. No bothersome harmonics and interference. The set is therefore more selective and is much easier to operate. One stage of radio frequency amplification is used before the first detector in order to better accomplish this and make the set suitable for use on an outside antenna. The set can therefore be used on an outside antenna without reradiation and the radio frequency stage makes it sharper than loop reception.

#### Very Simple to Build

Every set built is an exact duplicate of the laboratory model. This is assured by the use of ready drilled and engraved panel and subpanel and by use of a marvelous new piece of radio engineering. The Kurz-Kasch Capacity Connection. This device eliminates approximately 80% of the

wiring and soldering. It also acts as a condenser between battery leads and eliminates all by-pass condensers. Its influence on the stability of the circuit is very pronounced. The amateur builder is assured of obtaining results equal to those of the laboratory model.

#### Most Sensitive of All Receivers

The Tyrman Ten has been tested under the most severe conditions, and has given remarkable performances. All fields are confined with their place of origin. All tubes are shielded by the new Tyrman shielded socket so that even intertube coupling is eliminated. The shield also keeps the tubes at the proper operating temperature for greater efficiency. Unsurpassed in beauty with the new Tyrman Drum control and the symmetric layout the set has unsurpassed beauty which you will be proud to exhibit to your friends.

The set is so simple to build that the most inexperienced builder can assemble it. Complete instructions are furnished with the kit.

#### List of Parts

2 Tyrman Type 8-70 R. F. Transformers, \$4.00; 1 Tyrman Type 8-71 R. F. Transformer, \$4.00; 4 Tyrman Type 8-80 R. F. Transformers, \$28.00; 1 Tyrman Type 3-50 Audio Transformer, \$8.00; 1 Tyrman Type 3-50 Input Transformer, \$10.00; 1 Tyrman Type 3-51 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 7x26" front panel Formica, and dec., \$6.90; 1 7x26 subpanel, Formica, \$2.20; 2 Benjamin brackets, 70c; 2 Carter 1 mfl. cond., \$2.50; 1 Carter 3/4 mfl. cond., .90c; 1 Carter .00025 cond., .40c; 1 Carter .001 Mica cond. 50c; 1 Yaxley No. 600 Cable connector, complete, \$3.00; 1 Lynch 3 meg. res. 50c; 1 Lynch res. mtr., 35c; 1 Filament resist. Yaxley 1 1/2 amp., 5 volts, 15c; 1 Filament resist. Yaxley 1 1/4 amp., 5 volts, 15c; 1 Yaxley 200 Pot, \$1.75; 1 Yaxley Grid Resistance No. 7200, 200 ohms, 25c; 1 Hanmarlund 50 mfd. Midget condenser, \$1.20; 1 Yaxley 25 ohm. Capacitor with switch, \$1.75; 2 Binding Posts—Eby, 30c; 1 Camfil. .00025 variable condenser, \$5.75; 1 Camfil. .00035 Two-gang condenser, \$10.50; Miscellaneous screws, 60c; 1 Set Blueprints, \$1.50.

**3B376—Comp. set of parts, List \$144.45. NET \$81<sup>95</sup>**

Shipping Weight, 26 lbs.



### Tyrman Vernier Drum Dial



An answer to the demand for better appearance, plus superior performance. Gives both direct and vernier tuning. Can be used with any standard condensers. Beautiful escutcheon plate furnished. Distinct silver etched graduations. Perfect concentricity of drums and condenser shafts. Absolutely no back lash. Shipping wt., 1 lb.

**3B4179—Single dial control, List, \$5.00. NET \$2.94**

**3B4180—Two-dial control sets, List, \$10.00. NET \$5.88**



### Tyrman Shielded Socket

A single hole, subpanel or baseboard mounting socket. Entirely shields tube, preventing stray fields from affecting its operation. Shielding of aluminum, best heat radiator obtainable, keeping temperature of tube constant. Shpg. wt., 4 oz.

**3B4188—List, \$1.25. NET 74c**



### Tyrman Audio Transformers

Unique in design. Large, heavy core and amplify uniformly on the lowest audible frequencies. Perfect tone beyond the limits heretofore expected. Types 3-50 and 3-51 especially for use with UX-112 and UX-171. Ship. wt., 3 lbs.

**3B4185—3-30 ratio 3 to 1. \$4.70**

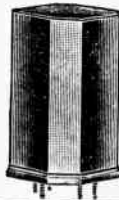
List, \$8.00. NET

**3B4186—3-50—Power input transformer**

for second audio stage. List, \$10.00. NET \$5.88

**3B4187—3-51—Power output transformer**

for second audio stage. List, \$10.00. NET \$5.88



### Tyrman Radio Frequency Transformer

A unit of a high standard of excellence and quality. Guaranteed matched to the frequency on a kilocycle. Terminals accommodate Kurz-Kasch Capacity Connector. Encased in molded bakelite. Shipping wt., 4 oz.

**3B4181—Type 8-70, 200 to 500**

meters, List, \$4.00. NET \$2.36

**3B4182—Type 8-71, 160 to 360**

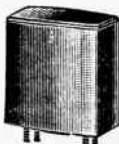
meters, List, \$4.00. NET \$2.36

**3B4183—Type 8-80, long wave,**

3,000,000 cycles, List, \$7.00. NET \$4.12

**3B4184—Kurz-Kasch Capacity Connector**

for use with these Transformers, Shipping wt., 1/2 lbs, List \$4.41





# Hammarlund ROBERTS Hi-Q

# Hammarlund-Roberts Hi-Q6 6 Tube Shielded \$58.25 Net

The new Hammarlund-Roberts Hi-Q six represents the ultimate in six tube receivers. It incorporates many new refinements which have not been introduced heretofore.

Three stages of radio frequency amplification are used giving a very highly amplified signal to the detector tube. The low loss design of the Auto-Couple coils used increases the efficiency of the set to a remarkable degree. The separate stages are individually shielded with Hammarlund Aluminum Shields, preventing pick up by the coils and wiring, and completely eliminating inter-stage coupling with its attendant oscillations. Thus the greatest cause of broadness in tuning is once eliminated. However, selectivity is not so great as to cause distortion. The circuit is so designed that the useful odd harmonics are amplified so that the musical note will be pure and undistorted. Many distant stations have been tuned in from the heart of New York's congested broadcast area, without interference from the local stations.

The famous Hammarlund Auto-Couple coils are used so that constant coupling is maintained at all times in the r.f. amplifiers. Thus, being neutralized efficiently at one point, the set is just as efficient at all other points. The volume is therefore proportional to the strength of the station—not to its wavelength.

## A Superior Audio System

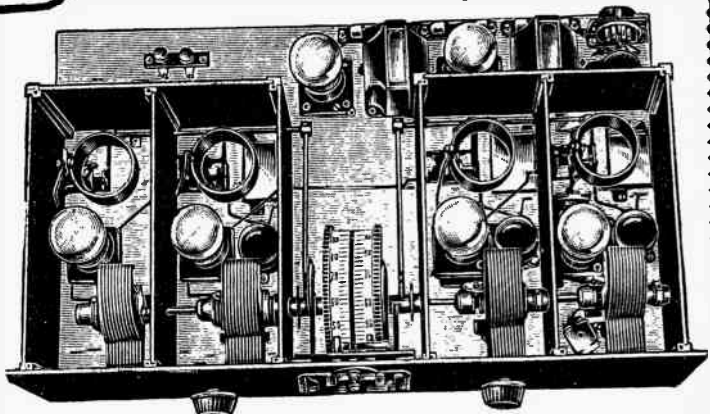
To insure the most perfect reproduction attainable, Samson Symphonic transformers are used in the audio stages. Provision is also made for a power tube so that great volume can be obtained without distortion. This, coupled with the well designed radio frequency amplifier, produces very natural and lifelike tones in the loud speaker. The circuit is really an application of the familiar Neutrodyne circuit which is noted for its tonal qualities, easy tuning, and wide range.

## Extremely Easy to Tune

Easy tuning is accomplished by employing the new Hammarlund Drum Dial and coupling the condensers together. A station is tuned in with the dial and there are no other adjustments to make except for volume. The volume may be controlled at will from a whisper to a roar by adjusting the volume control.

## Quickly and Easily Built

The construction of the set is very simple. Anyone can build it with no difficulty. A Van Doorn bent and drilled metal chassis complete with all hardware is supplied. Everything is worked out at the factory and it is only necessary for the builder to assemble and wire the set.



The only tools needed are a screw driver, pliers and a soldering iron. No difficulty will be experienced by the amateur set builder in duplicating the results obtained in the laboratory.

The set is very neat looking with its well balanced Micarta Panel and the Hammarlund Drum Dial. The inside of the set is particularly neat since all wiring is beneath the top of the metal chassis. The layout is very symmetrical. This set is one which you will be proud to exhibit for your friends' approval. Both in appearance and in operating qualities.

Complete and simple constructional information and diagrams are supplied with the kit.

## List of Parts

2 Samson Symphonic Trans. @ \$9.00, \$18.00; 4 Hammarlund .0005 Midline Condensers @ \$8.50, \$22.00; 4 Hammarlund Hi-Q Six Auto Couple coils (HQ64), \$12.00; 4 Hammarlund IFC-85, R.F. Choke coils @ \$2.00, \$8.00; 1 Hammarlund Illum. Drum Dial, \$8.00; 1 Sangamo .001 mf. Fix. cond., .40c; 1 Sangamo .00025 mf. fix. cond. with clips, 50c; 1 Carter IR-6 Imp. Rheo., 6 ohm, \$1.00; 1 Carter Imp. Bat. Sw. with knob, 75c; 1 Durham metallized Res., 2 meg., 50c; 3 Sangamo 1/2 mfd. cond. @ \$1.25, \$3.75; 2 Amperites No. 1-A @ \$1.10, \$2.20; 1 Amperite No. 1127, \$1.10; 8 Ray Universal Sockets @ 50c, \$2.40; 3 Ely engraved Binding posts @ 15c, 45c; 1 Yaxley No. 660 cable connector, \$3.00; 1 Hammarlund-Roberts Hi-Q6 Foundation Unit consists of dr. and eng. panel, Van Doorn steel chassis, shields, shafts, wire, screws, nuts, etc., \$15.50.

**3B342—Complete set of parts. List Price. \$58.25**  
\$99.40. NET.....  
Shipping weight, 20 lbs.

## The Super-Hilco Dyne Kit Essential Kit

Net  
**\$11.40**

The Super-Hilco Dyne Receiver—a 7 tube set superior to and different from the usual superheterodyne type set can be constructed from this kit. This receiver appears in the November Citizen's Radio Call Book. Very selective, coast to coast reception—great volume—no distortion—no squeaks or howls. Uses loop or outside antenna, dry or storage battery tubes. Very compact, panel size 7x28 inches. Kit contains 3 transformers, filter coupler, oscillator coupler, antenna coupler and 9 fixed condensers necessary in the circuit. Shipping wt., 16 lbs.

**3B365—List, \$20.00. NET..... \$11.40**

**3B366—FLW Kit, same as above but includes short wave coupler and switch for tuning from 15 to 600 meters. List, \$25.00. NET..... \$14.25**



## Hilco Transformers

### M. F. Transformer Replacement Kit

A set of four air core transformers accurately matched for a frequency of 40 K. C.—7,500 meters. All transformers have the same peak frequency. They will materially improve the tone quality of any superheterodyne receiver. Kit contains 4 transformers and 4-00025 mf. fixed condensers.

**3B367—\$8.55**  
List, \$15.00. NET.....

### Hilco Oscillator Coupler

Designed as a replacement unit for all Superheterodyne type receivers. Will operate efficiently from 190 to 575 meters. Fixed type "pick up" coil set for greatest efficiency. For use with .0005 mf. variable condenser.

**3B368—List Price, \$3.00. \$1.71**  
NET.....

### Short Wave Oscillator Coupler

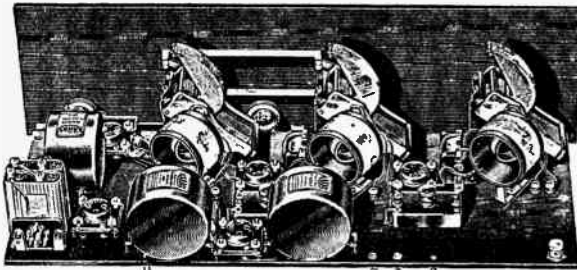
Makes any super receiver a highly efficient short wave set. 15 to 200 meters range.

**3B369—List, \$3.00. NET..... \$1.71**



# New Karas Two-Dial Equamatic

## \$56<sup>99</sup> Net



**As Specified in Citizens Radio Call Book**

Completely balanced and perfectly neutralized, insuring easy tuning and simplified control. Equal efficiency over entire broadcast wave-band. All of the superb tone quality and great volume of the Karas 3-dial, 5-tube Equamatic. Complete neutralization makes tuning easy and gives a power and richer tone.

The variable primaries are set so that energy transfer to secondary is constant at maximum, just below the oscillation point. Two condensers tune with one dial with no back-lash. Micrometric dials allow tuning to

The new Karas transformers and tone filter make the reproduction perfect. No distortion is possible unless used with poor loudspeaker.

Can be readily built and operated by the most inexperienced fan by following the simple instructions included with kit.

1/1000 of an inch with the gear ratio of six hundred thirty-seven to one.

Gives exceptional results under every condition of operation. Its sharpness and selectivity are proverbial; its volume tremendous; its clear, pure tones the wonder of radio. Better results than from most 7-tube receivers of other designs.

### List of Parts

3 Karas .00037 mf Var. Cond. @ \$5.25, \$15.75; 3 Karas Equamatic R. F. Transf. @ \$1.00, \$12.00; 2 Karas Type 23 Audio Transf. @ \$8.00, \$16.00; 2 Karas Micrometric Dials @ \$3.50, \$7.00; 1 Karas Output Filter, \$8.00; 3 Karas Sub-Panel Brackets, 70c; 5 Benjamin No. 9040 Sockets @ 50c, \$2.50; 1 Carter 10 ohm Rheostat—Imp. (Gold Arrow), \$1.00; 1 Carter 20 ohm Rheostat—Imp. (Gold Arrow), \$1.00; 2 Carter 2 ohm Fixed Resistors @ 25c, 50c; 2 Carter Tip Jacks No. 10 @ 10c, 20c; 1 Yaxley 60-B Two Stage Switch, \$1.50; 1 Yaxley Cable Connector, \$3.00; 2 Samson No. 85 R. F. Chokes @ \$2.00, \$4.00; 2 Samson Bal. Cond. @ \$2.25, \$4.50; 1 Karas 2-Dial Control System Complete with extra Shafts

and Hardware for Complete Set, \$3.00; 2 Polymet .001 mf Fix. Cond. @ 30c, 60c; 1 Polymet .006 mf Fix. Cond. @ 50c, 50c; 2 Samson .001 mf Fixed Condensers, 40c; 1 Samson .00025 mf Grid Condensers with Glass, 50c; 1 Daven 2 Meg-ohm Grid Leak, 50c; 1 XL Binding Post, Ant., 15c; 1 Formica 7x24x3/8 D. and Eng. Panel, \$5.68; 1 Formica 7x23x3/8 Drilled Sub-Panel, \$6.00; 1 Pkg. Acme Celastite Hook-Up Wire, 40c; 1 Pkg. Kester Solder, 25c; 1 Blueprints and Instructions, \$1.50.

**NET \$56<sup>99</sup>**  
Shipping weight, 25 lbs.

### Karas Equamatic R. F. Transformer



Variable primary fastens to shaft of condenser and is automatically varied. Improved sensitivity, selectivity and volume. Gives constant coupling on all wave lengths, thus giving volume proportional to strength of station—not wave lengths.

**3B1831**—Per set of 3 matched units. Shipping weight 1 lb. **\$7.06**  
List, \$2.00, NET.....

**3B1832**—Karas Retard Coils for old style Equamatic set. Shipping **59c**

weight 8 oz. List, \$1.00, NET.....  
**3B1833**—Karas Sub-Panel Brackets. Per set of 3, **41c**  
Shipping weight, 12 oz. List, 70c, NET.....

### New Karas Transformer



Marvelous reception secured with the new Karas Type 28 Audio Frequency Transformer.

Undistorted amplification of the low notes, as well as perfect reproduction of high notes. Gives tremendous volume. Amplifies the many vital harmonies and rich overtones that combine to form musical sounds.

Completely shielded and hermetically sealed against climatic conditions. Dampness, heat or cold will not affect them. Completely impregnated. Compound guaranteed to never leak out.

Provided with extra long lugs. Finished in polished black Duco. Shipping weight, 1 lb. 14 oz.  
**3B1840**—List, \$8.00, NET..... **\$4.71**

### Karas Orthometric Condensers

Separates all adjoining wave lengths by equal distances on dial. Proper inductance will make each point on dial 10 kilocycles apart. Makes tuning easy. Plates and frame die stamped brass, solidly braced, giving permanent alignment. Plates soldered at every point of contact. Rotor and Frame grounded. Dielectric—hard rubber—placed outside electro static field. Resistance nil—losses none. Shipping weight, 1 1/2 lbs.



**3B1823**—00014 mf. List, \$6.50, NET..... **\$3.82**  
**3B1824**—00025 mf. List, \$6.50, NET..... **\$3.82**  
**3B1825**—00037 mf. List, \$6.75, NET..... **4.12**  
**3B1826**—0005 mf. List, \$7.00, NET..... **4.12**  
**3B1842**—00037, with extended shaft, List, \$7.00, NET..... **4.12**

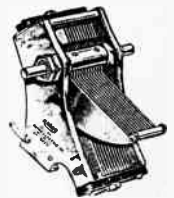
### New Output Filter

A fitting companion to the new audio transformer. Not only prevents damaging D. C. currents from entering the loudspeaker but greatly improves the quality of reproduction. Consists of special 100 henry choke and a large capacity paper condenser of the finest quality. Shell richly finished in black Duco. Terminal extra long and plainly marked. Insulation is genuine Bakelite. Shipping weight, 1 lb. 12 oz.

**3B1841**—List, \$8.00, NET..... **\$4.71**

### New Karas S. L. F. Condensers

Has same general advantages as Orthometric. Removable shaft so they can be changed easily. Mounting for sub-panel, baseboard or single hole panel from either side. Made to the standard Karas specification and guaranteed. Shaft diameter 1/4 inch. Shipping weight, 1 lb.



**3B1837**—Type 11, .00025 mf. List, \$5.00, NET..... **\$2.94**  
**3B1838**—Type 17, .00037 mf. List, \$5.25, NET..... **\$3.09**  
**3B1839**—Type 23, .0005 mf. List, \$5.50, NET..... **\$3.23**

### Karas Micrometric Dial



Provides finest tuning with no back-lash. Ratio 63 to 1, permitting movement of 1/1000 of an inch. Turns easily and smoothly. No holes to drill. Moulded bakelite. Diameter 4 1/2 inches. Fits 1/4 inch shaft. Shipping weight, 10 oz.

**3B1828**—180 degree counterclockwise  
**3B1843**—180 degree clockwise  
**3B1829**—360 degree clockwise only.  
List, \$3.50  
NET..... **\$2.06**

### Karas Harmonik Audio Frequency Transformers



Suitable for regenerative circuits, radio frequency sets, superhets and reflex circuits. High amplification without distortion. All stage ratio. Shipping wt., 1 lb. 12 oz.  
**3B1222**—Karas Harmonik. List, \$5.00, NET..... **\$2.94**



# B-T Counterphase Power-Six

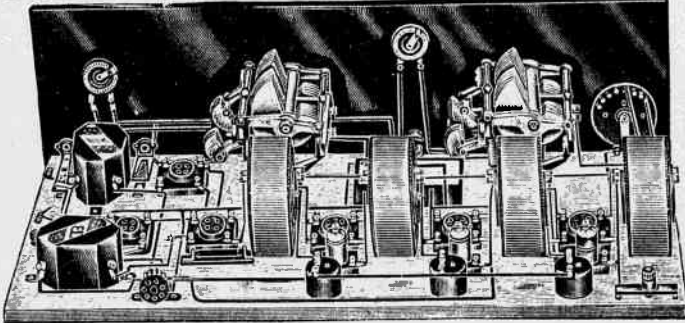
The Bremer-Tully Power-Six offers all of the latest improvements in radio. It includes the basic superiority of the original counterphase circuit with the additional refinements now possible through improvements in tubes, resistances and other parts.

3 stages of radio frequency amplification are used which greatly extend the range and selectivity of the set. Due to the use of the Torostyle coils shielding is entirely unnecessary. The new kit is much easier to balance and to operate. All 3 r.f. stages are tuned by only two control dials through the use of B-T multiple condensers. New style balancing condensers are used, which are very accurate and make the set balance very easily. A Jones Multiplying is used to facilitate battery connections. Long distance operation may be obtained with only a short indoor aerial, and it will give super volume with excellent tone quality.

The construction of the set is very simple and easy by using the wiring harness provided. This set will make a good appearance in any home if it is put into a good cabinet. The builder will be well repaid for the time and money spent.

## List of Parts

1 TA Torostyle Transformer, \$4.00; 3 TC Torostyle Transformers @ \$4.00, \$12.00; 2 Ld-17 Condensers @ \$9.50, \$19.00; 3 BT mmf Balancing Cond. @ \$1.00, \$3.00; 3 BT R. F. Chokes @ 90c, \$2.70; 1 B-T 500,000 ohm resist., \$2.00; 3 1500 ohm resistances @ 50c, \$1.50; 1 set color charts and diagrams, 90c; 1 7x24 Panel, Dr. and Engr. Formica, \$3.00; 1 Wood Baseboard 9 1/2 x 23 1/2 inches, \$1.25; 1 B-T Euphonic Trans. 4-7-1, \$5.75; 1 B-T Euphonic Trans. 2-2-1, \$3.00;



2 B-T Tuning Controls @ \$2.50, \$5.00; 1—.001 mf Fix. cond. Dubilier, 10c; 1—.0025 mf Fix. cond. Dubilier, 35c; 3—.500 mf Fix. cond. Dubilier @ 50c, \$1.50; 2 1 mf. Fix. cond. @ \$1.25, \$2.50; 1 2 meg. grid leak Tube, 50c; 6 B-T 1X shock sockets @ 75c, \$4.50; 1 Grid leak mounting, 35c; 1 double circuit Jack No. 104, 80c; 1 single circuit Jack No. 101, 50c; 1 Filament Switch, Carter, 65c; 1 Carter Mid-get 3 ohm Rheo., 50c; 1 S. P. D. T. Jack Switch Carter Imp., 65c; 1 binding post—Ely-engr-ant., 15c; 1 one hole mounting strip, 20c; 1 Jones B. M. Multiplying set, 3 ft. cable, \$2.75; 1 pkg. Belden Coloribber wire, 40c; miscellaneous lugs, screws, etc.

**3B1070—Complete Kit. List, \$85.35. \$46.50**  
NET.....  
Shipping weight, 25 lbs.

## B-T Power-Six Essential Kit

This kit is made up at the B-T factory and consists of the B-T essentials used in the kit.

The following parts are furnished:  
1 TA Torostyle Transformer, \$4.00; 3 TC Torostyle Transformers @ \$4.00, \$12.00; 2 LD-17 B-T Condensers @ \$9.50, \$19.00; 3 B-T mmf. Condensers @ \$1.00, \$3.00; 3 B-T RF Chokes @ 90c, \$2.70; 1 B-T 500,000 ohm Variable Resistor, \$2.00; 3 1,500 ohm Resistance @ 50c, \$1.50; 1 set Color Charts and Diagrams, 90c.  
**3B331—Complete Kit. List \$45.10. NET \$24.40**

Shipping wt., 10 lbs.

## B-T Laboratory Type Condensers

Low loss style of superior mechanical strength. Straight line wave length change over entire scale. Low minimum capacity. Panel or base mounting. Small amount of insulation placed outside of electrostatic field. Pigtail rotor condenser. Binding post connections, grounded frame. Heavy aluminum plates. Cast aluminum ends finely finished. 1/4-inch shaft. No dial included. Shipping wt., 1 lb.

	List	NET
3B4243—.00125 mfd. Price, each.....	\$4.25	\$2.50
3B4244—.00225 mfd. Price, each.....	4.50	2.65
3B4245—.00335 mfd. Price, each.....	4.75	2.80
3B4246—.0065 mfd. Price, each.....	5.00	3.00

## B-T Straightline Frequency Condensers

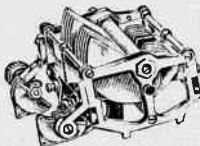
A real B-T achievement. Eliminates crowding of stations regardless of their wave length. Spare stations uniformly over dial when used with B-T coils. Shpg. wt. 1 lb., 2 oz.

	List	NET
3B4305—.00225 mfd. ....	\$5.50	\$3.24
3B4306—.00335 mfd. ....	5.75	3.39
3B4307—.0065 mfd. ....	6.00	3.52

## B-T Lifetime Multiple Condensers

For use in circuits designed for simultaneous tuning. Same high grade construction as the B-T single condenser. Similar to the B-T single condenser, but with a special design to assure best tuning under all conditions. The compensating "trimmers" are an exclusive feature of high merit. Shipping wt., 1 1/2 lbs.

**3B4242—Type Ld-17, each unit .00035 mf., List, \$9.50. \$5.56**  
NET



## B-T R. F. Choke Coil

Increases efficiency of circuits by preventing radio frequency currents from entering the audio circuits. Bank winding for better results. Housed in neat bakelite case with binding post terminals. Mounts with single screw. Shipping wt., 4 oz.

**3B4308—List, \$0.90. 53c**  
NET



## B-T Socket

Takes all style of tubes with X bases. Shock absorbing, no cushions needed. Molded bakelite. Shipping wt., 4 oz.

**3B4229—List Price, 75c. 45c**  
NET



## Metal Panel For Counterphase Power-Six

Bronze panel, elegant walnut finish. Holes punched to take B-T apparatus. Neatly engraved. Eliminates body capacity. Size 7x24 inches. Finest looking panel made. Gives set factory-made appearance. Shipping wt., 1 lb.

**3B4227—List, \$6.50. \$3.90**  
NET

## Metal Shield For Counterphase and Power-Six

A brass box, 23x9 3/4 x 6 3/4 inches. Fits in 7x24x7 inch cabinet. Shields set completely except for front panel. Shipping wt., 4 lbs.

**3B4228—List, \$7.50. NET \$4.50**



## B-T Torostyle Transformers

Reduces external fields, eliminates critical angles, lessens interstate coupling and pickup by the coils and wiring. Makes a very sensitive and selective r.f. amplifier. Frame moulded bakelite. 7 binding posts arranged for simplified wiring. For use with .00035 mf. condensers. Shipping wt., 12 oz.

**3B4232—Type TA Antenna Coupler. \$2.35**  
**3B4233—Type Tc Intermedial R. F. Stages. \$2.35**  
List, \$4.00. NET

## B-T Tuning Control

Combines attractive appearance with the highest degree of efficiency. 12-1 ratio provides positive control with smooth, easy flowing action. Works with either right or left hand condensers. Reversible erasable disc is calibrated on one side in meters and other side for station letters. Black and Gold finish. Diameter 4 inches for 1/2-in. shaft. Shipping wt., 11 oz.

**3B4224—List, \$2.50. \$1.47**  
NET



## Euphonic Transformer

Produces remarkable amplification and tone quality, being one of the first constructional audio transformer improvements. Can be mounted either side up in various positions to eliminate all crossed wires, thus preventing howls and distortion. Shipping wt., 1 1/2 lbs.



**3B4235—Type 210, ratio 2.2-1. \$2.94**  
List, \$5.00. NET  
**3B4236—Type 410, ratio 4.7-1. 3.39**  
List, \$5.75. NET

## B-T Micro-Mike Condenser

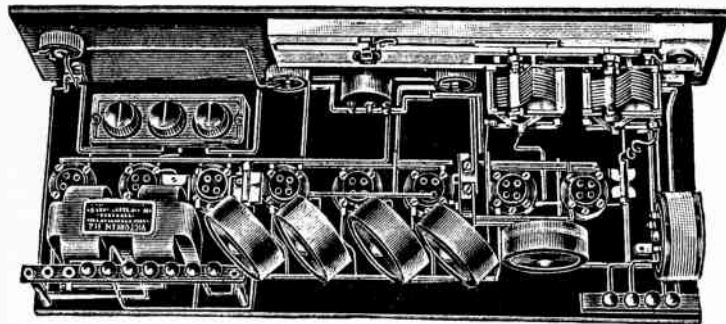
Straight line capacity gives highly accurate and permanent adjustment from 1-30 mmf. Indicator shows relative adjustment. Use in any circuit for balancing condenser. Shipping wt., 4 oz.

**3B4238—New Vertical Micro-Mike. \$1.00. 59c**  
NET



WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

# The New Victoreen Super 8



**Great Volume  
Hair-Sharp  
Selectivity**  
**\$68<sup>96</sup>**  
Net  
**As Specified in  
Citizens Radio  
Call Book**

In this receiver all tedious and expensive matching and oscillation suppressing methods have been eliminated, due to the exact design of the transformers. Air core transformers are used, being sharply peaked at 88 kilocycles or 3400 meters. This wave offers the least trouble from harmonics. Each transformer has exactly the same amplification constant and is matched for wave length to within  $\frac{1}{2}$  of 1 per cent. Thus interstage coupling with attendant oscillations which destroys sensitivity and quality of reproduction is eliminated.

Circuit contains: Oscillator, first and second detectors, 3 intermediate frequency amplifiers and two stage audio. The audio stages use the new improved Victoreen 112 transformer unit which is the highest grade available. Gives perfect reproduction of all frequencies. Arranged for power tube in last stage. Switch provided for use of either a tapped loop or outside antenna. Very easy to construct. Complete instructions furnished.

#### LIST OF PARTS

1 Victoreen Master Control with 2 .0005 mf. Var. Cond., \$19.50; 4 Victoreen Inter. Trans. No. 170, \$28.00; 1 Victoreen

Audio Control Unit, \$4.50; 1 Victoreen 6 ohm Rho., \$1.20; 1 Victoreen 2 ohm Rho., \$1.20; 1 Victoreen No. 160 Antenna Coupler, \$3.50; 1 Victoreen 400 ohm Pot., \$1.50; 1 Victoreen No. 150 Osc. Coupler, \$5.50; 1 .001 mf. Fixed Cond., 40c; 1 1 mf. cond. Dub. No. 907, 90c; 2 .00025 mf. Grid Cond. with clips @ 40c Dub., 80c; 2 2-Megohm Grid Leaks @ 50c, \$1.00; 1 Victoreen Audio Unit type 112, \$22.00; 8 Frost No. 530 Sockets @ 40c, \$3.20; 1 7x26x $\frac{3}{16}$  inch Lignole Panel, dec. and dr., \$6.00; 1 Jewell 0-8 Voltmeter, \$7.00; 1 Wooden Baseboard, 9x25x $\frac{1}{2}$  in., \$1.25; 1 Formica Strip, 6x $\frac{3}{4}$ x $\frac{1}{16}$  in., 25c; 1 Formica Strip, 5x $\frac{3}{4}$ x $\frac{3}{16}$  in., 24c; 1 Carter Filament Switch, 65c; 1 Carter No. 6 Jack Switch, \$1.25; 10 Ely Eng. Bind. Posts, \$1.50; 1 Jones Type BM Multiplug, \$2.75; 1 National Type B Dial, \$2.50; 50 ft. tinned copper wire, 65c; 1 pkg. Kester Solder, 25c; 1 Miscellaneous Nuts, Lugs, Screws, etc., 50c; Blueprints.

**3B373—Complete set of parts for 201A tubes. \$68.96**  
List, \$117.99. NET.

**3B374—Complete set of parts for 199 type tubes. 68.96**  
List, \$117.99. NET.

## Victoreen Transformers

Very sharp resonance point—means great selectivity. Thus an aperiodic primary is used and interstage oscillation is suppressed, making set more stable. Potentiometer used solely as volume control, not as a loss. Each transformer tuned to  $\frac{1}{2}$  of 1 per cent. No matching of tubes, no adjustments to make. Peak at 88,000 cycles where there is no interference from harmonics.



**3B4718—No. 170 R. F. Transformer for 201A Tubes. List, \$7.00. NET. \$4.12**

**3B4710—No. 171 R. F. Transformer for Dry Coil Tubes. List, \$7.00. NET. 4.12**

**3B4720—No. 160 Antenna Coupler. List, \$3.50. NET. \$2.06**

Either type of tube. To use antenna and ground, as well as loop, this unit is necessary.

**3B4721—No. 150 Coupling Unit. List, \$5.50. NET. \$3.24**

Fixed type, requires no adjustment. Works with any tube.

## Victoreen Manganin Rheostats and Potentiometers

Wound with genuine Manganin Resistance wire. Many more turns used than usual, giving finer adjustment. Smooth running and noiseless. Resistance remains constant, regardless of temperature.



**3B4722—2 ohm Rheostat. 71c**

**3B4723—6 ohm Rheostat.**

**3B4724—10 ohm Rheostat.**

**3B4726—30 ohm Rheostat.**

**3B4727—40 ohm Rheostat.**

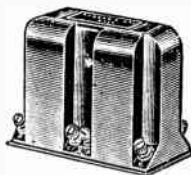
List, \$1.20. NET. ....

**3B4728—200 ohm Potentiometer. 89c**

**3B4729—400 ohm Potentiometer.**

List, \$1.50. NET. ....

## Victoreen Audio Unit

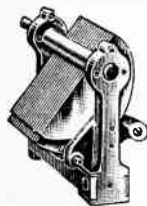


Answers the need for a transformer unit that will give wider tonal limits with exceptional freedom from distortion. Many new measurements used to check the manufacture. A laboratory achievement of precision, without a peer.

**3B4733—No. 112. \$12.94**  
List, \$22.00. NET.

**3B4733 $\frac{1}{2}$ —No. 115 Output Unit. List, \$10.00. \$6.00**  
NET.

## New National Equitune Variable Condenser



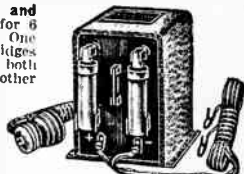
These condensers incorporate many features not found in any other type condenser. An entirely new design of light rigid girder-frame construction with plates shaped to give modified straight line frequency separation over the entire scale. Perfect bearings. May be coupled in g a n g s. Equipped with National type B velvet vernier dial.

**3B6300—.00035 mf. \$4.35**  
List, \$7.25. NET.

**3B6301—.0005 mf. 4.50**  
List, \$7.50. NET.

## New National Charger

An exceedingly compact and reasonably priced charger for 6 volt batteries. Two types: One using two Raytheon Cartridges and having a capacity of both 2 $\frac{1}{2}$  and 5 amperes; the other using one Raytheon Cartridge and delivering 2 $\frac{1}{2}$  amperes. Absolutely silent in operation. Gives tapering charge. Supplied without Raytheon cartridges.



**3B6302—Double Rate. List, \$10.00. \$6.00**  
NET.

**3B6303—2 $\frac{1}{2}$  amp. Rate. List, \$7.00. 4.20**  
NET.



# Official Browning-Drake Receiver

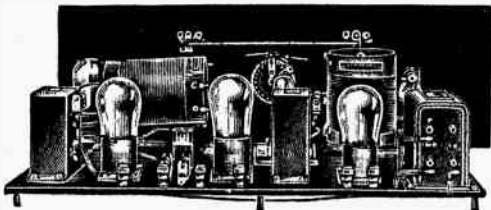
As Specified by

Glenn H. Browning and  
Dr. F. H. Drake

Featured by Popular Radio

**\$37<sup>35</sup>**  
Net

Without Tone Filter



This is the final and official Browning-Drake Circuit as developed by G. H. Browning and Dr. F. H. Drake. The original circuit which has been used for several years is the basis of this kit. It is noted for its sensitiveness, selectivity, volume and tone quality. It has the highest radio frequency stage gain of any receiver on the market. This is due to the design of the transformers, the bunched primary tertiary coil being very closely coupled to the tuned coil or secondary.

The new Browning-Drake has the same distance getting ability which made a transcontinental reception record of Los Angeles from Boston for seven consecutive nights. It is extremely selective and is highly recommended for the most congested locations.

In addition to retaining this excellent selectivity and range, there is added a much improved audio frequency amplifier using a combination of the famous National Impedafomers and resistances for coupling. The first and third stages are impedance coupled, the second resistance coupled. This amplifier has the advantage of amplifying all frequencies as low as 25 cycles per second. Thus all of the overtones of the various notes are retained and the result is pure undistorted music. Impedance coupled amplification is becoming more popular with the constructors of receivers, due to its superiority in tonal color and musical range. In all tests with this set the cone speakers gave the best reproduction.

The set is very easy to build and to operate. Everything is all worked out in the laboratory so that the constructor

has only the assembling and wiring to do. The set is laid out in an attractive manner, and has only two tuning dials. Complete instructions included.

### LIST OF PARTS

1 Browning-Drake Kit (coils, condensers, dials, and instructions), \$25.00; 1 Browning-Drake Foundation Unit consists of: 7x21 in. Micarta Panels drilled and engraved, with sockets, resistor clips, soldering lugs, machine screws, nuts, bolts and wire, \$15.00; 1 National Impedafomer (1st stage) - \$3.50; 1 National Impedafomer (3d stage only) - \$5.50; 1 Tobe Condenser, special B-D type, 60c; 3 Tobe .001 Tinytube fix. cond. @ 40c, \$1.20; 1 .00007 Tinytube fix. cond., 40c; 1 Yaxley Filament Switch No. 1031 (gold), 60c; 1 Yaxley 30 ohm Rho. No. 130 K-BD (gold), \$1.40; 8 Eby Binding posts, \$1.20; 1 Precise Midget .0001 var. cond., \$1.75; 1 Browning-Drake 33 ohm Resis., 75c; 1 Durham 1 meg resistance, 30c; 1 Durham .25 meg resistance, 50c; 1 Durham 8 meg resistance, 50c; 1 Browning-Drake balancing device, \$1.00; 1 Amperite No. 5A, \$1.10; 1 Constructional booklet, 25c; 2 Yaxley Pup jacks @ 15c, 30c.

**3B371**—As specified above. **\$37.35**  
List price, \$63.05, NET.....  
**3B372**—Same as above with National Tone Filter. No jacks, List, \$70.75, NET..... **\$42.25**  
Shipping weight, 20 lbs.

## National Impedafomers

For perfect reproduction, the method of coupling by impedance is recognized now as the best. This method has the advantage of reproducing every note in the musical scale with extreme fidelity. The amplification per stage is high compared to resistance methods. Due to the use of the impedance coils instead of resistance, the full plate voltage reaches the tube at all times. All frequencies as low as 25 cycles are amplified alike. Thus, the mellow, harmonious, background of the contra basses and cellos is not lost.



### Type "B"

This type Impedafomer embodies a 100 henry choke coil, a .1 m. f. condenser and a grid leak in a single unit. Facilitates the assembly of the amplifier and saves space. The first stage unit contains also an R. F. choke coil for the detector plate circuit. Shpg. wt., 1 1/2 lbs.

**3B4169**—1st Stage with Choke.  
**3B4170**—2nd or 3rd Stage without choke.  
List, \$5.50, NET, EACH.... **\$3.30**

### Type "A"

This type consists of a 100 henry choke coil in a metal case. No grid leak or condenser. First stage unit includes an R. F. choke coil. Shpg. wt., 1 lb.

**3B4171**—1st stage with R. F. Choke.  
**3B4172**—2nd or 3rd stage without choke. **\$2.40**  
List, \$4.00, NET, EACH.....

## National Tone Filter

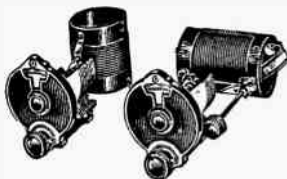


Designed for use with power tubes to prevent the high plate voltage from damaging the loud speaker. Contains an impedance of the correct value and a Tobe Filter Condenser. No D. C. can reach the speaker. Chattering, distortion and burn-outs are therefore prevented. Attractive metal case with tip jack connections. 5 foot phone cord included. Shipping weight, 2 1/2 lbs.

**3B4173**—List price, \$8.00, NET..... **\$4.80**

## Official Browning-Drake Kit of Coils and Condensers

Kit consists of: one Antenna System Unit; one Browning-Drake Space-wound Antenna Coil mounted on a .0005 mf. Variable Condenser with a National Velvet Vernier Illuminated dial; one Regenerator System; one Browning-Drake Transformer with slot wound primary, space wound secondary, mounted on a .00025 mf. Variable Condenser with Velvet Vernier Illuminated dial. Specified for the Official Browning-Drake Circuit. Shpg. wt., 6 lbs.



**3B4174**—List, \$25.00, NET..... **\$15.00**

## Browning-Drake Foundation Unit

Consists of front and base panels, drilled and engraved; with sockets, resistor clips, soldering lugs, machine screws and wire. Shpg. wt., 5 lbs.

**3B4176**—List, \$15.00, NET..... **\$8.89**

## National Variable Velvet Vernier Dial Type "B"



Embodies a modified application of the famous Velvet Vernier mechanism. No slippage and no back lash. Turns very easily, and really has a velvet touch. Has a new device which enables the user to adjust the Vernier ratio from 6 to 1 to 20-1. Hair line indicator for accurate tuning. Beautifully made of moulded bakelite. Metal parts nickel-plated. Fits any 3/4 inch shaft. Shpg. wt., 8 ounces.

**3B4146**—Clockwise.  
**3B4147**—Counter-clockwise.  
List, \$2.50, NET, EACH..... **\$1.50**

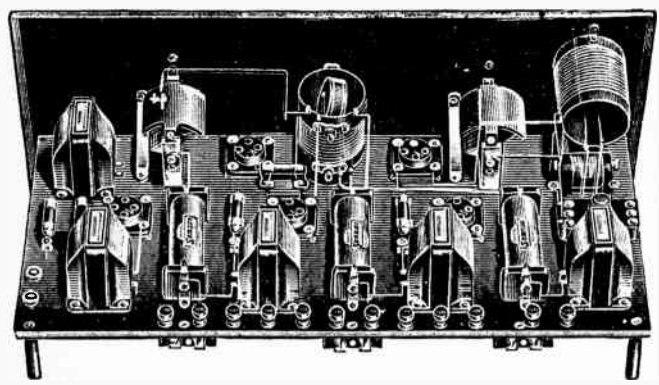
### Type "C"

This dial is the same as type "B" in construction except that it is equipped with a concealed 6-volt bulb which brightly illuminates the scale from the rear. Shipping weight, 8 oz.

**3B4177**—Clockwise.  
**3B4178**—Counter-clockwise.  
List, \$3.00, NET, EACH..... **\$1.80**

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

# Samson De Luxe T. C. Receiver \$69.75 NET



**Great Selectivity and Power with Five Tubes**  
**As Specified by Citizen's Radio Call Book**

A very efficient set, capable of wonderful tone reproduction. R. F. circuit, well-known T. C., where one stage tuned neutralized R. F. precedes a regenerative detector. Variable coupling is provided between the R. F. and detector for most efficient operation. Unusually large condensers used in the amplifiers to insure reproduction of low notes. The well-known Samson Dual Impedances are used and the reproduction is nearly perfect. The impedance leak affords a greater amount of amplification and permits a very high quality of reproduction. Full size wiring diagram included. Panel size is 9 1/2 x 24 inches; depth 10 inches.

1 Samson T. C. Panel Kit (cont. hdvrc.), \$13.50; 5 Benjamin UX Chulsion Sockets @ \$75; 1 Samson Type 41 Antenna Coil, \$2.00; 1 Samson Type 31 Double Rotor Coupler, \$5.00; 2 Samson Type 67, 500 muf Variable Condensers @ \$5.50, \$11.00; 2 Samson Type 85 Radio Frequency Chokes @ \$2.00, \$4.00; 3 Samson Type 3 Audio Frequency Chokes @ \$3.25, \$9.75; 1 Samson Type 61 Neutralizing Condenser, \$2.00; 3 Samson Type P Plate Impedances @ \$4.50, \$13.50; 1 Samson Type G Grid Impedance, \$4.50; 1 Samson Type O Output Impedance, \$5.00; 2 Samson Type "Universal" Vernier Dials @ \$2.50, \$5.00; 1 Sankamo .0005 mf Fixed Condenser, 40c; 1 Sankamo .001 mf Fixed Condenser, 50c; 1 Sankamo .0001 mf Fixed Condenser, 40c; 1 pair

Sankamo Grid Leak Clips, 10c; 1 5 megohm Grid Leak, Lynch, 50c; 1 .25 megohm Grid Leak, Lynch, 50c; 5 Tube 4 mf By-Pass Condensers @ \$3.50, \$17.50; 1 Tube 2 mf By-Pass Condenser, \$1.75; 1 Tube 1 mf By-Pass Condenser, 90c; 1 pair Yaxley Pup Jacks, 30c; 1 Yaxley Filament Switch, 50c; 11 Eby Engraved Binding Posts, \$1.65; 1 CRL 500,000 ohm Variable Resistance, \$2.00; 3 Type 3 Elkey Equalizers with Mounting @ 75c \$2.25; 2 Type 4 Elkey Equalizers with Mounting @ 75c, \$1.50; 50 feet Belden Colorubber Wire, \$1.80; Blueprints and Instructions.  
**3B370—Complete.**  
 List price, \$111.55.  
**\$69.75**  
 NET.....

## Samson Impedances and Transformers



Heliocally wound, gives superior results in all circuits. Especially recommended for their wonderful tone quality by all leading engineers. Shipping weight, 1 1/2 lbs.  
**3B4354—Standard Transformer (Type HW-A2), Ratio 3-1, List, \$4.00, NET \$2.55**  
**3B4322—Standard Transformer (Type HW-A3), Ratio 3-1, List, \$5.00, NET \$3.19**  
**3B4311—Standard Transformer (Type HW-A3), Ratio 2-1, List, \$5.00, NET \$3.19**

**3B4355—Standard Transformer (Type HW-A3), Ratio 6-1, List, \$5.00, NET \$3.19**  
**3B4323—Symphonic Transformer, List, \$10.00, NET \$5.73**  
**3B4356—Push-Pull Input Transformer (Type X), List, \$5.50, NET \$3.51**  
**3B4324—Plate Impedance (Type P), List, \$4.50, NET \$2.89**  
**3B4326—Grid Impedance (Type G), List, \$4.50, NET \$2.89**  
**3B4327—Dual Impedance (Type D), List, \$5.00, NET \$3.19**  
**3B4328—Output Impedance (Type O), List, \$5.00, NET \$3.19**  
**3B4357—Push-Pull Output Impedance (Type Z), List, \$5.00, NET \$3.19**  
**3B4358—Type Y Symphonic Interstage Push-Pull Transformer, List, \$14.00, NET \$8.92**

## Samson R. F. Choke Coils

Heliocally wound radio frequency choke coils. Very efficient in keeping R. F. current from going astray. Shipping weight, 3 oz.  
**3B4359—1/2 Henry, List, \$2.75, NET \$1.79**  
**3B4360—250 Millihenry, List, \$2.25, NET \$1.46**  
**3B4331—85 Millihenry, List, \$2.00, NET \$1.30**



## Samson Audio Frequency Chokes

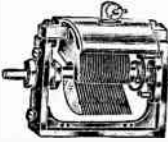


Heliocally wound A. F. Chokes for use in A. F. "B" battery leads to keep the stages isolated. Shipping weight, 1 lb.  
**3B4361—3/2 Henries, List, \$3.25, NET \$2.11**  
**3B4362—30 Henries (for power supply use), List, \$5.00, NET \$3.25**

## Samson Book on Amplification

Explains all systems used, illustrates them thoroughly, shows all of their good and bad points. A real text-book of audio-amplification. Shipping weight, 4 oz.  
**3B4333—List, 25c, NET \$1.7c**

## Samson Uniform Frequency Condensers

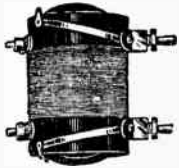


A guaranteed condenser accurate within 1 per cent of laboratory fineness and precision. Ruggedly built. Will last indefinitely. Very low losses. Shipping weight, 1 lb.  

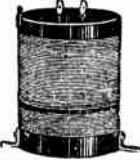
No.	Mf.	List	Net
3B4334	.0005	\$5.50	\$3.53
3B4335	.00035	5.25	3.25
3B4336	.00025	5.00	3.25
3B4337	.000125	5.00	3.25
3B4337	.000075	5.00	3.25

## Samson Double Rotor Coupler

Wound with double silk-covered wire on Formica tubing. 160-550 meters with .0005 mf. condenser. Rotors may be used as variable, primary or tickler, etc. Solder lug connection. Shipping weight, 14 oz.  
**3B4329—List, \$7.50, NET \$4.79**  
**3B4364—Single Rotor Coupler, List, \$6.00, NET \$3.90**



## Samson Antenna Coil



Used with double rotor coupler in Browning-Drake, T. C. DeLuxe circuit, etc. Silk wound on Formica tubing. 160-550 meters with .0005 condenser. Shipping weight, 1/2 lb.  
**3B4330—List, \$1.85, NET \$1.30**

## Samson Vernier Dial

Universal—for right or left hand rotation—and non-microphonic. Adjustable tension. Very close hair line. No back lash. Will wear indefinitely. For 1/4 inch shaft. For years past one of the most popular vernier dials in the market. Always firm and steady in operation, it insures the utmost in fine tuning and control.  
 Shipping weight, 1/2 lb.  
**3B4365—List, \$2.50, NET \$1.63**



## Samson Neutralizing Condenser

For neutralization of radio frequency amplifiers. Minimum capacity, .0002 mf. Maximum capacity, .00015 mf. Bakelite case 3x1 1/2 x 1/2 inches. Shipping weight, 6 oz.  
**3B4332—List, \$2.00, NET \$1.30**

**OTHER SAMSON PARTS LISTED ON PAGE 36**



# Magnaformer 9-8

Commander-in-chief of the Air

A New Radio Thrill  
New and Novel

Two Years Ahead in Design

**\$76.95** As Specified in Citizen's  
Net Radio Call Book

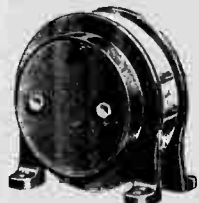
The new Magnaformer Circuit incorporates the most advanced design in radio quality and performance. Uses new Magnaformer Intermediate transformers with self-enclosed, factory fixed and sealed condensers. Distinctly modern; new in design; simple to control. So few controls that anyone can tune it.

Uses famous Remler Drum Dials. Ferranti equal amplification audio transformers. Output tone filter prevents speaker blasting; retains constant quality.

## Magnaformer Long Wave Transformer

A different and unusual transformer. Permanently tuned in the laboratory to exactly the same wave length. Always passes full signal with all harmonic carrying side bands. Incoming signal receives double the usual amount of amplification in each R. F. stage. Very powerful output—very sound clear and distinct. Peak at 72 K. C.

Scientifically shielded. Will not oscillate. No fusing, no squeals or squawk. Coils and condenser are fixed, sealed and shielded separately. Cannot vary. Shipping



weight, 1/2 lb.

**3B1236**—No. R. F. 61 Magnaformer. **\$15.00**

Size, 3 1/2 x 3 1/4 x 1 1/2. List, \$8.50. NET, EACH.....

**3B1237**—No. C771 Uncoupler. Size, 3 1/2 x 3 1/4 x 1 1/2. WT.

1/2 lb. List, \$6.50. **\$3.81**

NET, EACH.....



Uses 7 1X201A unmatched tubes, UX112 in first stage. UX171 in second stage. Instant change from 9 to 8 tubes. Very sensitive. As many as 43 stations from coast to coast and foreign countries logged in one night in Chicago's congested broadcast area.

Can be built very easily by the most inexperienced set builder. Instructions included.

### List of Parts

1 Formica 7x26x3/4 in. Dr. and Eng. Panel, \$6.50; 1 Formica 9x25x3/4 in. Drilled Sub-Panel, \$6.50; 5 Magnaformer Intermediate Trans. @ \$2.50, \$12.50; 1 Uncoupler, UC No. 71, \$8.50; 1 Remler No. 110R Dial, \$4.50; 1 Remler Universal Drum Dials No. 110, \$1.50; 2 Remler .0005 mfd. Variable Cond. @ \$5.00, \$10.00; 3 Benjamin UX Sockets @ 50c, \$1.50; 1 Pair—Benjamin Brackets, 70c; 2 Ferranti Audio Frequency Trans. @ \$8.50, \$17.00; 1 National Tone Filter, \$8.00; 1 Samson Radio Frequency Choke, No. 85, \$2.00; 2 Sangamo .00025 mfd. Grid Cond. with Mica, \$1.00; 1 Tube mfd. By-pass Cond., 90c; 2 Durium 2 megohm Grid Leaks @ 50c, \$1.00; 1 Frost DeLuxe 400 ohm Potentiometer, \$1.25; 1 Frost DeLuxe 10 ohm Rheostat with Switch, \$1.35; 1 Frost DeLuxe 10 ohm Rheostat, \$1.00; 1 Frost DeLuxe 30 ohm Rheostat, \$1.00; 2 Pair—Frost Tip Jacks @ 50c, 90c; 2 Amerites No. 112 @ \$1.10, \$2.20; 1 Yaxley Cable Con. No. 660, \$3.00; 1 Yaxley Jack Switch No. 60, \$1.25; 2 Coils, Acme Celatite Wire @ \$1.60, 1 Package Kester Radio Solder, 25c; Miscellaneous Lugs, Screws, Nuts, etc., 65c; 1 Set Blueprints, \$1.50.

**3B356**—Complete set of parts. List Price, **\$76.95**  
\$31.75. NET.....

Shipping weight, 25 lbs.

# The Thompson Super Seven Receiver

The Thompson Super Seven is a highly efficient Super Heterodyne receiver that will satisfy the most critical for both distance and tonal quality. It was designed by the chief Engineers of several prominent parts manufacturers and incorporates all the latest ideas for a fine receiver.

In all seven tubes are used, but they all work at maximum efficiency, giving the equal of a 9 or 10 tube set of ordinary design. The stages are as follows: oscillator, first detector, 2 stages intermediate frequency amplification, second detector, 2 stages of audio frequency.

The famous Halldorson transformers, noted for their tonal qualities, are used throughout.

3,000 miles consistent reception in congested broadcast area is accomplished regularly with this set.

Due to the uniform design all leads are short and the set is very simple and easy to build. This is one of the best medium priced, high quality, easy to build, supers on the market.

### List of Parts

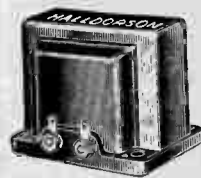
2 Halldorson Iron Core No. 510 Trans. @ \$6.00, \$12.00; 1 Halldorson No. 511 Filter Trans. \$8.00; 2 Halldorson Overtone Audio Trans. @ \$6.00, \$12.00; 1 Halldorson Overtone Output Trans., \$8.00; 2 Silver-Marshall Drum Dials No. 805 @ \$3.00, \$6.00; 1 Ellis Oscillator Coupler, \$3.00; 6 Silver-Marshall Tube Sockets @ 50c, \$3.00; 1 Benjamin X Socket, 75c; 1 Silver-Marshall No. 340 Midget Condenser, \$1.50; 2 Camfield .0005 mfd. Cond. @ \$6.00, \$12.00; 1 Yaxley Filament Switch, 50c; 2 Yaxley Pup Jacks, 25c; 1 Tube .006 Condenser, 45c; 1 Tube 1 mf. Condenser, \$1.25; 1 Tube .002 Condenser,

40c; 1 Yaxley 2L resistance, 15c; 1 Yaxley 3L resistance, 15c; 1 Yaxley 30 ohm Rheo., \$1.35; 1 Micarta 7x21 Panel Dr. and Eng., \$3.40; 1 Micarta 9x20 Subpanel Dr. and Eng., \$4.95; 1 Lynch 3 meg. grid leak, 50c; 1 Lynch Mounting, 35c; 1 Tube .0025 Condenser, 40c; 1 Tube .001 Condenser, 40c; 1 pkg. Belden Colarubber Wire, 40c; 10 XL Spring Binding Posts, \$1.50; 1 Miscellaneous Lugs, Screws, etc., 65c.

**3B377**—Complete set of parts. List price, **\$47.25**  
\$79.30. NET.....

Shipping weight, 20 lbs.

## Halldorson Transformers



The result of many years of research in transformer design and acoustics. Practically straight line amplification up to 5,000 cycles where it drops rapidly, preventing the noise and audio frequency regeneration. Amplifies low notes and overtones. Beautiful brown polished bakelite case. One type for all circuits and all tubes. Shipping weight, 1 lb.

**3B1232**—Overtone Audio Transformer. List, \$6.00. **\$3.60**

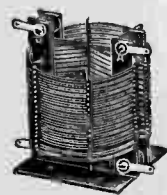
NET **3B1233**—Overtone Output Transformer. List, \$6.00. **\$3.60**

NET **3B1234**—Precision Filter Transformer. List, \$6.00. **\$3.60**

NET **3B1235**—Precision Intermediate Long Wave Transformers. List, \$6.00. NET **\$3.60**

## Ellis "D" Coils

Air insulation and spaced winding. Are superior because they have super volume; no interstage coupling; matchless tone; freedom from pick-up; unexcelled selectivity; low radio frequency resistance; low distributed capacity. Supports a bakelite. Packed in kits of 3, 4 or 5 coils, as desired, at a list price of \$2.50 per coil.



**3B3626**—For .00035 Condenser. List price, per Coil, **\$1.47**  
\$2.50. NET.....

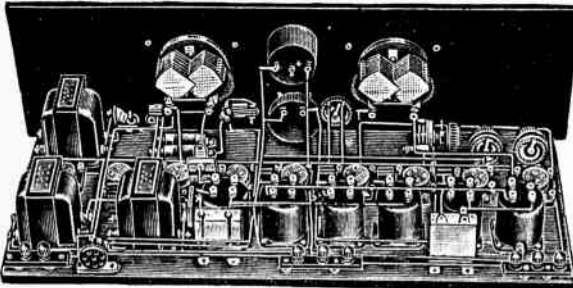
**3B3627**—For .0005 Condenser. List, per Coil, \$2.50. NET..... **\$1.47**

NET **3B3628**—Oscillator Coil for Supers for .0005 m. f. Condenser. List, \$3.00. NET..... **\$1.76**

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

# The Best—Lincoln Super Receiver

As Specified in Citizens Radio Call Book



### List of Parts

2 Remler .0005 mf. Var. Cond. No. 649 @ \$5.00, \$10.00; 2 Benjamin Sockets 9040 @ 75c, \$6.75; 2 Carter Midket 20 ohm Rheo. @ 50c, \$1.00; 1 Carter Midket 3 ohm Rheo., 50c; 1 CRL 50,000 ohm Var. Res., \$2.00; 1 Yaxley closed circuit Jack, 60c; 1 Yaxley open circuit Jack, 50c; 1 Yaxley filament Switch, 50c; 1 Jewell 0-50 Milliammeter-Pat-135, \$7.00; 2 Kurz-Kasch Aristocrat Dials—w/mt @ \$2.00, \$4.00; 1 Jones B. M. Multiplug, \$2.75; 1 Lincoln Oscillator Coupler—5 Lincoln Intermediate Transformers—kit, \$42.00; 1 Sangamo .0025 mf. fixed Cond., 50c; 2 Tobe 1 mf. By-Pass Cond. @ 90c, \$1.80; 1 Sangamo .0005 mf. Grid Cond., 40c; 1 Pair Grid Leak Clips, 10c; 8 Eby Engraved Binding Posts, \$1.20; 2 Thordarson R-200 Audio Transformers, \$16.50; 1 Thordarson R-76 Output Transformer, \$6.00; 1 Hammarlund Midket Cond., \$1.80; 1 Micarta 7x24 $\frac{3}{4}$  inch Dr. and Engr. Panel, \$5.60; 1 9x23 $\frac{1}{2}$  Wood Baseboard, 80c; 1 pkg. Kester, Radio Solder, 25c; 1 pkg. Acme Celatite Wire, \$1.00; 1 3x $\frac{3}{4}$ x $\frac{3}{4}$  Terminal Strip (3 hole), 25c; 1 2 $\frac{1}{2}$ x $\frac{3}{4}$ x $\frac{3}{4}$  Terminal Strip (2 hole), 23c; 1 3x $\frac{3}{4}$ x $\frac{3}{4}$  Terminal Strip (4 hole), 25c; 1 3 megohm Grid Leak—Tobe, 50c; 2 112 Amperettes @ \$1.10, \$2.20; 1 Set

Blueprints and Instructions, \$1.40; 1 Miscellaneous lugs, nuts, screws, etc., 50c.

**3B357—Complete set of parts. List Price, \$126.00. NET..... \$73<sup>50</sup>**  
Shipping weight, 25 lbs.

### Lincoln Transformers

The construction of these transformers makes a set operate with a peculiar efficient performance of its own. Each stage operates at a different harmonic of the fundamental frequency, making the intermediate amplifier its own filter. This with the air core gives a high degree of selectivity. No stray fields—no equals or noises.



**3B1239—Nine Ensemble—5 Transformers and Coupler, List, \$42.00. NET..... \$29.40**  
**3B1239—Eight Ensemble—4 Transformers and Coupler, List, \$30.00. NET..... \$17.66**

# The EIGHT-IN-LINE Super

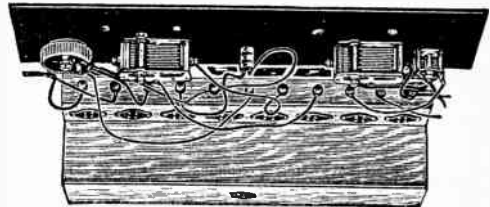
As Specified by Citizens Radio Call Book

An Innovation for the set builder. With this kit all of the thrills of building your own receiver are experienced, yet you have a factory-built and balanced receiver.

The Eight-in-Line unit consists of all parts except those which go on the panel. Unit is all wired, ready to put the panel on. Only a few additional parts are necessary. May be connected in a very short time. Will outdemonstrate most sets now on the market—from competitive tests. May be built by the most inexperienced builder.

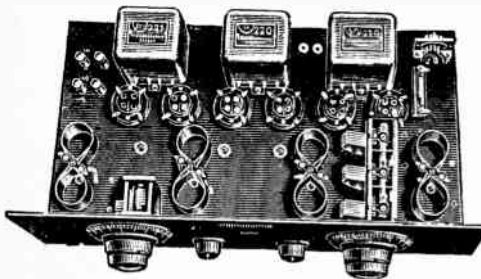
### List of Parts

1 Eight-in-Line Unit, \$105.00; 1 Lignole Drilled and Engraved Panel, \$3.50; 1 Frost 30 ohm Rheostat No. 210, 75c; 2 De Jur .0005 mf. Variable Condensers @ \$3.50, \$7.00; 1 Carter Filament Switch, 65c; 1 Hammarlund .000045 mf. Mid-



set Variable Condenser, \$1.80; 2 Kurz-Kasch Aristocrat Vernier-Dials, Walnut Finish, \$4.00; 1 Yaxley 1 ohm Resistance, 15c; 1 Package Kester Radio Solder, 25c; 1 Coll Acme Celatite Wire, 85c.

**3B337—Complete set of parts. List Price, \$126.10. NET..... \$73<sup>80</sup>**



### Parts Supplied

3 Bodine Twin-Eight Coils F-135 @ \$2.00, \$6.00; 1 Bodine Twin-Eight Coil T-35, \$2.00; 3 Electrad Phasatrols @ \$2.75, \$8.25; 6 Silver-Marshall 511 Tube Sockets, \$3.00; 2 S-M 220 Transformers @ \$3.00, \$6.00; 1 S-M 221 Output Transformer, \$7.50; 1 Grid Leak Mounting, 35c; 1 Allen-Bradley 3 meg. Grid Leak, 80c; 1 Pair Silver-Marshall 540 Brackets, 70c; 1 Anisco 3-Gang Condenser .00035, No. 1518, \$9.75; 1 Anisco Single Condenser .00035, No. 518, \$3.25; 2 Allen-Bradley Bradleystats @ \$1.85, \$3.70; 1 MF By-Pass Condenser, \$1.00; 1 .001 Condenser, 40c; 1 .0005 Condenser, 25c; 1 Allen-Bradley Filament Switch, 60c; 1 7x2 $\frac{1}{2}$ x $\frac{3}{4}$  inch Front Panel, \$5.50; 1 9 $\frac{1}{2}$ x20 inch Sub-Panel, \$6.00; 1 Coll Belden Colorubber Wire (Red), 40c; 1 Coll Belden Colorubber Wire (Blue), 50c; 1 Coll Belden Colorubber Wire (Green),

# Bodine Twin-Eight Six Tube Receiver. \$44<sup>95</sup> Net

Using Bodine Twin-Eight Coils, a gang condenser and phasatrols, combines the desirable features of superheterodyne and tuned r. f. sets. Knife-edge selectivity. Phenomenal distance getting ability.

Operates on either loop or outside antenna, cutting through locals easily. Has excited the wonder and respect of Chicago experts.

Contains 3 stages radio frequency which are very easy to build and balance with phasatrols. Easy to build, simple to tune, cost is not prohibitive.

50c; 1 Coll Belden Colorubber Wire (Natural), 50c; 2 4 inch Black Dials (Kurz-Kasch) @ 85c, \$1.70; 1 Belden 5-Wire Cable, 75c; 6 Binding Posts, Eby, 90c; 1 Miscellaneous Screws, Nuts, Lugs, etc., 65c; 1 Blueprints and Instructions, \$1.25.

**3B336—Complete set of parts. List, \$74.60. NET..... \$44<sup>95</sup>**  
Shipping weight, 20 lbs.



# THE M-S 8 PORTABLE SUPER

**Marvelous Power and Selectivity**  
**Most Efficient Portable Ever Designed**



This view shows how the excellent portable cabinet appears when ready to move. The lid is attached and the small loop fits into it. The total assembly complete with batteries weighs only 35 lbs.

There is a great variety of portable sets, now and the Dealer will find a ready market for all he constructs.

### LIST OF PARTS

1 Panel drilled and engraved, \$6.00; 1 Base Panel, drilled, \$4.00; 2 Selectone Trans. R400, \$12.00; 2 Selectone Trans. R410, \$12.00; 1 Thor Coupler

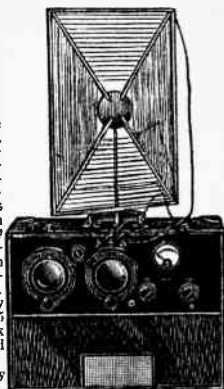
type 460, \$3.50; 8 Patent Sockets, \$5.20; 1 Thorlarsou A. F. 3 1/2-1, \$4.00; 1 Thorlarsou A. F. 2-1, \$5.00; 2 Remler condensers .0005, \$10.00; 1 Hammarlund MC-5, \$1.00; 1 Jewell Voltmeter Q-5 V, \$7.00; 1 Carter Rheo. M-8, 50c; 1 Carter Rheo. M-30, 50c; 1 Sangamo Cond. .0025, 50c; 1 Sangamo Cond. .0005, 40c; 1 Sangamo Cond. .006, 85c; 2 Tohe Cond. 5 mfd., @ 75c, \$1.50; 1 Grid Leak, 3-meg. Durham, 50c; 3 Yaxley Midget Jacks @ 30c, 90c; 16 pcs. Formica tubing, \$2.40; Miscellaneous screws, 66c; Bus wire, 10 pcs., 25c; Binding posts, \$1.05; 1 Blueprint, \$2.00.

**\$52.06**

**3B359**—Complete set of parts. List, \$82.50. NET.....

Shipping wt., 20 lbs.

The M S 8 Super is an 8-tube portable set of very great power, using the famous Scott Selector transformers. It is the most selective and most powerful portable that can be built in a convenient form. Its selectivity has been demonstrated by tuning in stations from New York City early in the evening through the powerful Chicago local stations with great volume and with no background of nearby local stations. In its cabinet it is very easily portable and weighs but 35 pounds. The size is only 12x17x18 inches. Everything is reduced except the efficiency and power. On a standard size loop you may expect the efficiency and results equal to those obtained from any super. The blue prints and instructions furnished simplify the assembly until the most inexperienced builder can assemble and wire the complete outfit in only a few hours.



### Cabinet and Loop

**3B5340**—Portable case as illustrated above with built-in Speaker. Less unit and loop. Shpg. wt., 15 lbs. **\$10.50**  
 List, \$15.00. NET.....  
**3B1670**—Junior Loop for above. Shpg. wt., 3 lbs. List, \$5.00. NET..... **3.50**

## St. James Upright Eight Receiver

The new Upright Eight, as specified in Citizens Radio Call Book, was designed for mounting in an automobile. It is an ideal set for the motorist, for it is always with him, ready to entertain at the turn of a switch. The eight tube circuit, using St. James transformers in the radio frequency stages and Silver Marshall in the audio end, is very efficient and will give distant reception on a small loop, even under adverse conditions. Perfect reproduction and extreme selectivity combined.

Can be assembled by anyone in a short time. Extremely simple when following the instructions and blueprints included with kit. Shipping weight, 20 lbs.

**3B341**—Complete, as specified in Citizen's Call Book. List, \$82.91. NET..... **\$49.25**

## St. James Transformers

The St. James transformers are sealed in a vacuum in a glass bulb, so that the atmosphere cannot affect them in any way. They have been tested by Captain Adams of the U. S. Signal Corps in all climates and adverse conditions, such as in the tropics and aboard ships. The report is outstanding performance in distance-getting qualities and the ability to go through static conditions. Their true form inductances are loss free, and of very small size, preventing interstage coupling and outside pick-up. They operate on 240 kilocycles, giving a wide r.f. amplification and a minimum of repeats. Matched so accurately and tuned so sharply no filter stage is needed.



**3B2729**—Intermediate Frequency Transformer. List, \$7.50. NET..... **\$4.50**  
**3B2730**—Oscillator Coupler. List, \$5.00. NET..... **3.00**  
**3B2731**—Choke Coil. List, \$1.50. NET..... **.90**

## Madison-Moore 8 Tube Super

**As Specified in Citizen's Radio Call Book**

The Madison-Moore incorporates the latest development in Super-Heterodyne circuits. It is built around the new transformers which are more wonderful than the previous Madison-Moore's. They give positive selectivity at any point on the dial and in addition higher quality and greater distance. Thus the frequent occurrence of the high beat of one local station interfering with another station is eliminated. No harmonics of any kind. Renowned for extreme clarity and tone reproduction.

Very easy to wire and assemble by the most inexperienced constructor. It is very simple to properly balance the loop and oscillator circuits so that high selectivity and easy tuning are obtained.

### LIST OF PARTS

1 Set of 5 Madison-Moore Units, \$55.00; 1 Karas .0005 mf. var. cond., \$7.00; 1 Karas .005 var. cond., \$6.50; 2 Marco Illuminated Dials @ \$5.00, \$10.00; 1 Frost 10 ohm Rheo, 75c; 1 Frost 20 ohm Rheo, 75c; 1 Frost Filament switch, 30c; 4 type 4 ElKay Equalizers with mfg., 75c; 1 type 2 ElKay Equalizers with mfg., 75c; 1 type 4/3 ElKay Equalizer with mts., 75c; 1 Durham 2 meg. grid leak, 50c; 1 Tohe .00025 mf. ix. Cond., 35c; 1 Tohe .005 mf. ix. Cond., 45c; 2 Tohe 1 mf. By-Pass cond. @ 90c, \$1.80; 1 Grid leak mounting, Daren, 35c; 1 Yaxley

Cable Connector, \$3.00; 7 Ely Engraved Bind. Posts @ 15c, \$1.05; 8 UX sockets—Benjamin @ 75c, \$6.00; 1 7x26x3/4 in. Dr. and Eng. fr. pan. \$6.00; 1 Formica Terminal strip, 3 hole, 25c; 2 Formica Terminal strip, 2 hole, 40c; 1 10 1/2 x 3 1/2 wooden base board, \$1.00; 1 Set Blueprints and Instructions, \$1.40; 1 Miscellaneous Lugs, Screws, etc., 50c; 80 ft. Times 1 Copper Wire, 80c.  
**3B339**—Complete. List, \$113.40. **\$68.63**  
 NET.....  
 Shipping wt., 25 lbs.

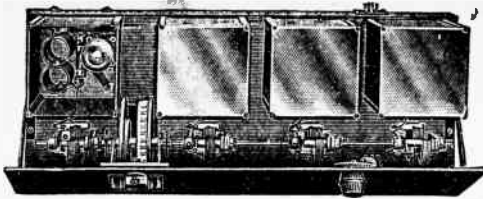
## Madison-Moore Transformers

Made and tested with great precision. From Canada to Mexico and from the Atlantic to the Pacific is their unrestricted range. Extremely selective. No difficulty in tuning out power-line locals and bringing in the distant stations. Excellent tonal reproduction. Registers every tone perfectly. Covers waves from 200 to 600 meters with .0005 condenser. Air core type mounted in nickel plated brass case. Matched in sets of five transformers. Shpg. wt., 3 lbs.  
**3B358**—List, \$55.00. NET..... **\$32.34**

## New Madison-Moore A. C. Transformers

When announced in the radio magazines we will have in stock the new Madison-Moore AC Transformers of the celebrated One Spot type. Buy them in matched sets and build a batteryless Super that will operate direct from the electric light socket. Same characteristics as the original One Spot Transformers. Shpg. wt., 3 lbs.  
**3B324**—List, \$55.00. NET..... **\$32.34**

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3



## Popular Radio L. C. 28 Broadcast Receiver

The New LC-28 Receiver as Featured in Popular Radio

This new circuit is another of Popular Radio's great features and lives up to their standard of excellence. A six tube receiver consisting of 3 stages radio frequency, detector and 2 of audio. It is very selective.

Will bring in distant stations when used in the most congested broadcast areas. The use of Silver-Marshall transformer assures a quality of reproduction seldom attained. The balancing is complete. No squeaks or squeals. The best you have ever used.

### List of Parts

4 Hammarlund Midline .000275 mf var. cond. @ \$5.10, \$20.40; 1 Hammarlund Double Drum Dial, \$6.00; 1 Set Acme-Precision double solenoid coils, 4 coils type 4-B, \$12.50; 3 Samson 250 mh R. F. chokes @ \$2.25, \$6.75; 1 Samson 85 mh R. F. choke, \$2.00; 3 Polymet Condensers .02 mf. @ \$1.50, \$4.50; 1 Polymet condenser .00025 mf, 35c; 1 Polymet condenser .00075 mf., 40c; 1 Yaxley comb. switch and Rheo. 6 ohm, \$1.75; 4 Carter 4 ohm fix. resistance type and Rheo. 4 @ 25c, \$1.00; 1 Yaxley cable connector plug, type 6A0, H-4 @ 25c, \$1.00; 1 Yaxley cable connector plug, type 6A0, H-4 @ 25c, \$1.00; 1 Carter Imp. plugs @ 15c, 30c; 1 Carter Tip Jack No. 10, 10c; 1 Carter Tip Jack No. 10 with insulating bushings, 15c; 1 Carter Imp. Nameplate Aerial, 5c; 1 Carter Imp. Nameplate, Ground, 5c; 6 Benjamin UX sockets @ 75c,

\$4.50; 1 Lynch Single resistance mounting, 35c; 1 Lynch Suppressor, 500 ohms, \$1.50; 1 Lynch Suppressor, 600 ohms, \$1.50; 1 Lynch Suppressor, 700 ohms, \$1.50; 1 Durham Metalized Resistor, 6 meg., 50c; 1 Pair Tait brackets, \$2.00; 1 Pkg. Belden Colorrubber wire, 40c; 1 Aluminum chassis, \$7.50; 4 Sets special aluminum box shields for LC-28 @ \$2.00, \$8.00; 1 Aluminum Panel, 6x26 inches, \$3.00; 1 10 1/4 inch extension shaft, 5c; 2 S-M 220 Audio Transformers, \$16.00; 1 Miscellaneous lugs, screws, nuts, etc., 65c; 1 Set Blue Prints, not included, \$1.00.  
**3B346—Complete set of parts, List price, \$106.70. NET..... \$69.90**  
Shipping weight, 30 lbs.

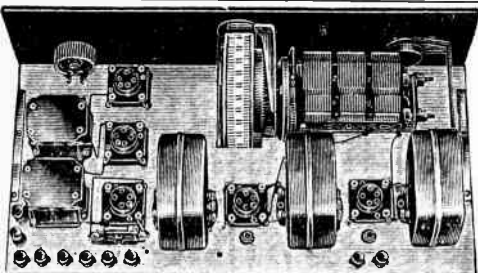
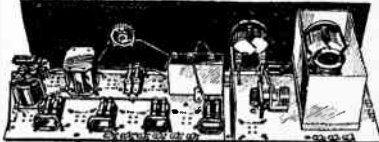
## Popular Mechanics Economy Nine

A new super by Popular Mechanics. Resistance coupled intermediates and S-M audio, make for wonderful tone quality. This set will enjoy the same popularity the others from Popular Mechanics have. Super selective. Very economical on batteries. A set well deserving of praise.

### List of Parts

2 Panels 3 1/2x7x26 inches (not drilled) @ \$3.00, \$7.90; 1 Pair S-M 540 Sub-Panel brackets, 70c; 2 Remler cond. No. 639 .0005 mfd. @ \$5.00, \$10.00; 2 Remler dials No. 636 @ \$1.00, \$2.00; 1 Frost 25 ohm rheostat @ 75c, 75c; 1 Carter open circuit jack, short type, 25c; 1 Carter filament switch, 65c; 1 S-M 342 midset cond., \$1.50; 1 Benjamin 9040 spring socket, 70c; 8 Pkgs. American UX prong contacts, Style A, 30c; 1 S-M 631 Aluminum shield, \$2.00; 1 S-M 110A coil \$2.50; 1 S-M coil socket, type 515, \$1.00; 1 S-M 240 audio transformer, \$6.00; 1 S-M 211 tuned-stune transformer, at 45 to 50Kc, \$6.00; 1 .0005 mfd. with gridleak clips, 40c; 4 Tube cond., .0005 mfd. @ 35c, \$1.40; 2 Tube cond., .0005 mfd., 30c; 1 Tube cond., .00025, 35c; 1 Tube condenser .0005 mfd., 45c; 1 Alcoa aluminum shield 4 1/2x6 in., 45c; 1 Tube 1 mfd. 1

condenser, 90c; 5 Double resistor mounts, DeJur, \$1.75; 5 Tube Tipon resistors 1/4 meg. (.25), \$2.50; 1 Tube Tipon resistors 1/10 meg. (.1), \$2.00; 1 Tube Tipon resistor 1 meg. (1.), 50c; 1 Tube Tipon resistor 2 meg. (2.), 50c; 2 Amerpette 1/2 amp. filament control units, \$2.20; 1 Amerpette 1/2 amp. filament control unit, \$1.10; 16 Fahnestock clips, small single type, 35c; 10 Lengths round slotted copper busbar wire No. 14, 25c; 4 Lengths wood block spaghetti tubing, 40c; 4 Small brass angle brackets, 1/4x3/4x3/4 in. 15c; 1 Miscellaneous Lugs, Screws, etc., 65c; Blueprints, \$1.00.  
**3B347—Complete set of parts, List price, \$61.85. NET..... \$37.00**  
Shipping weight, 29 lbs.



## The Quadrphase Five

As Specified by G. M. Best in Radio with Phasatrols and Remler Drum Dial

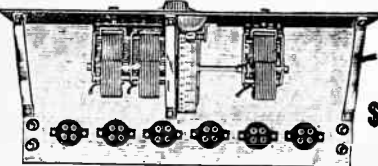
Another excellent circuit by Mr. G. M. Best using the famous Phasatrols for complete neutralization. The set absolutely will not oscillate when properly adjusted. The efficient Quadrformer coils are entirely shielded. There can be absolutely no pickup due to the coils and wiring. Therefore the selectivity is very great. The coils are all matched at the factory assuring a very efficient set. Single dial control is attained by the use of a Remler 3 gang condenser and Drum Dial.

Very easy to build when following instructions included. Easy to operate for there is only one dial and the volume control. Volume control perfectly from a whisper to a roar.

### Parts Supplied

1 Set Quadraformer coils with switch equip., \$17.50; 5 Benjamin Cushion Sockets @ 75c, \$3.75; 1 American DeLuxe Transformer (First Stage), \$10.00; 1 American DeLuxe Transformer (Second Stage), \$10.00; 1 Remler No. 633 capacity unit, \$15.00; 1 Remler No. 110, Drum Dial, \$1.00; 1 Frost No. 700-10 ohm Rheo., 75c; 1 Frost No. 293 Pantab Jack, 65c; 1 Yaxley Filament Switch, 50c; 1 Silver-Marshall No. 340 Midset cond., \$1.30; 1 Pair Benjamin Brackets, 70c; 1 Electrad Phasatrol, \$2.75; 1 XL G-5 ant. series cond., \$1.50; 1 Tube .00025 mf fix. cond., 35c;

1 Tube .001 mf fix. cond., 40c; 2 Tube 1 mf bypass cond., \$1.80; 2 No. 1 A Amerpettes @ \$1.10, \$2.20; 1 No. 112 Amerpette, \$1.10; 1 Amsco Grid Leak Mounting, 25c; 1 Tube 5 Meg grid leak, 30c; 1 Eby Binding Posts, \$1.65; 1 Bakelite Panel, 7x21x3/8 inches, \$5.19; 1 Bakelite Subpanel, 10x20 1/2x3/8 inches, \$6.41.  
**3B348—Complete set of parts, List price, \$85.25. NET..... \$53.95**  
Shipping weight, 18 lbs.



The Model B

\$27.60

## PIERCE AIRO 6-Tube Receiver

Embodies the latest principles of design to fill the most exacting requirements of the set builder. The audio amplifier is a combination of resistance coupling designed for power and tone quality.

Single control tuning by drum dial, with brass compensated condenser ganged in line and permanently calibrated. The chassis is all aluminum. Panel is bronze with new process wood finish.

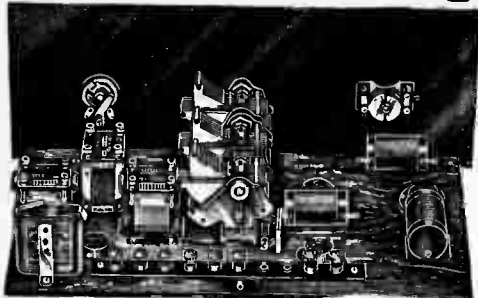
It is all ready assembled and wired so that it is only necessary for you to connect the batteries. Supplied either in a cabinet as shown or as a chassis without cabinet. Fits any standard 7x18 inch console or cabinet.

**3B11513—In Console Cabinet 16B11391 shown on page 121 with fine quality in-built speaker, A very beautiful combination. Shpg. wt., 95 lbs. \$50.55**  
List, \$97.50 NET.....  
**3B11514—Chassis Only. Shipping wt., 22 lbs. \$27.60**  
List, \$50.00, NET.....





# 6 Tube Single Control Kit



Here is the ideal kit for the fan who has been looking for a high grade set at a moderate cost. Many builders have reported excellent reception from distant stations with full loud speaker volume. With the single control feature anyone can operate it with wonderful results.

## Exceptional Tone Quality

Gives pure natural reproduction with any good loud speaker because it has three stages of low ratio transformer coupled amplification that build up the weak signals to full strength without overloading. Permits the use of the new 112 and 171 power tubes.

## High Quality Parts

All parts are of the finest grade. Triple ganged condenser of modified line type. Accurate spaced wound coils, accurate to one-half of one per cent. Dual midrange condenser permits perfect balancing of the R. F. stages. A full size layout diagram is furnished with each kit. The instructions are so simple that no experience is necessary to build this splendid 6 tube set.

## PARTS FURNISHED

strip, six posts, one bakelite binding post strip, two posts, one grid leak 2 meg., one 4 1/2 volt "C" battery, two brackets, screws, wire, lugs, miscellaneous. Nothing else to buy except 7x18 cabinet. Shipping weight, 30 lbs. **3B6481—List, \$35.00. \$1875**

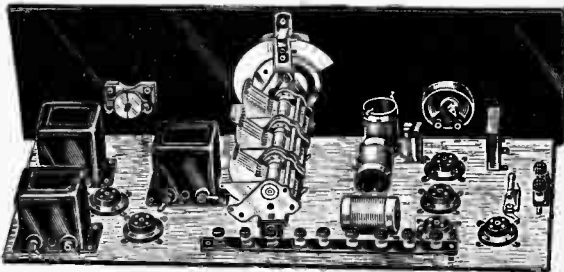
**LIST OF QUALITY**  
One bakelite 7x18 drilled panel, one 9x17 baseboard, one triple modified S. L. F. .00035 condenser unit, three space wound low loss coils, three low ratio audio transformers, one Cardwell dual balanced condenser, one Carter Hi-Ohm with switch 200,000 ohms, two tip jacks, six bakelite UX sockets, one Micamold .00025 grid condenser, one bakelite binding post

# 7-Tube Single Illuminated Control Kit

The 7 tube sets are now the most popular development on the market. This kit is destined to be the most popular of all. One efficient dial gives perfect ease of operation. Anyone can tune it. Very efficient space wound coils. Variable resistance oscillation and volume control. The rear panel mounting tuning dial has a translucent scale illuminated by a small 6 volt lamp. Scale is easily read through an attractive panel window. The new Knight transformers in the first audio and push-pull stage give wonderful tone quality with the new 112 and 171 type tubes. This kit has been very carefully selected and the builder will find it very easy to assemble and wire.

## COMPLETE LIST OF PARTS

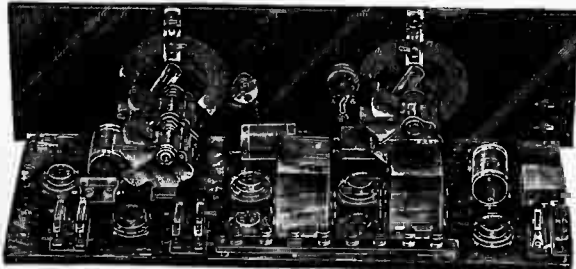
1 Bakelite 7x24 panel drilled, 1 9x23 baseboard, 1 Modified SLF triple, .00035 condenser, 1 illuminated dial, 3 Space wound R. F. coils, 1 grid condenser .00025, 1 grid leak 2 meg., 1 Single mounting, 1 .1 resistor, 1 Variable resistance 200,000 ohm with switch, 1 Cardwell dual midrange condenser, 7 Bakelite UX sockets, 1 By-pass condenser .5, 1 Binding post strip with two posts, 1 Binding post strip with eight posts, 1 Knight



K200 transformer, 1 Pair Knight push pull transformers. Shipping weight, 22 lbs.

**3B6482—Complete Kit, List, \$65.00. \$2375**

# New 8-Tube Two-Dial Illuminated Control Kit Very Powerful, Easy to Build and Operate



Here is a very powerful modern radio receiver capable of sensational long distance reception. It tunes very sharply through crowded broadcast areas and brings in distant stations with ease. Plenty of reserve power for coast-to-coast reception. With it the operator does not need be content with local stations. He can reach out and get some real DX. The set contains two stage resistance coupled audio stages and a new push-pull stage which reproduces the most elaborate renditions with pleasing tone and ample volume for a room of any reasonable size.

Only high grade parts are supplied for this kit and the instructions make it easy for anyone to obtain marvelous reception at a moderate price.

## LIST OF PARTS

1 7x24 drilled bakelite panel, 1 9x23 baseboard, 1 single .00035 condenser, 1 double .00035 condenser, 2 illuminated dials, 1 midrange condenser, 2 illuminated dials, 1 midrange condenser, 1 binding post strip, 2 posts, 1 binding post strip, 8 posts, screws, wire, lugs, miscellaneous. Shipping weight, 25 lbs. **3B6483—Complete Parts, List, \$57.50. \$2850**

denser, 1 200,000 ohm resistance with switch, 3 space wound R. F. coils, 2 stages resistance coupling, 1 pair Knight push pull transformers, 8 bakelite UX sockets, 2 1 mfd. by-pass condensers, 1 .00025 grid condenser, 1 .002 condenser, 1 2 meg. leak, single mounting, 1 .1 resistor, 2 tip jacks, 1

## Unitone 2C

This basic instrument consists of two BRUNO .0005 mfd. condensers mounted on an aluminum frame, a bronze panel plate and two drums, with scale. **3B6525—Price, complete, assembled.....\$6.40**

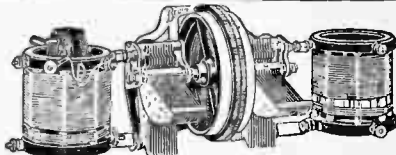
## Unitone RF

Consists of the basic condenser frame, Model 2C, and two Bruno LOW LOSS RF transformers. This combination provides two radio frequency stages and covers a wavelength of 300 to 550 meters. **3B6526—Price, complete assembled.....\$12.00**

## Unitone TK

Similar to Model RF except that right hand condenser holds Bruno Thru-Circuit Tuner. **3B6527—Price, complete.....\$12.40**  
**BD UNITONE**—Two condensers and two specially wound coils for use only in the BROWNING-DRAKE Circuit. **3B6528—Price.....\$12.40**

## BRUNO Unitone Units



These instruments are very convenient and permit the building of a set very striking and attractive in appearance. The basic unit is a double condenser consisting of two Bruno .0005 mfd. condensers mounted on an aluminum plate but entirely insulated from each other electrically. Adjustment is provided through a pair of moulded bakelite drums, whose knurled edges and graduated scales protrude through the front surface of the panel. The drums can be operated individually or together. No supplementary "vernier" condensers are necessary. Handsome bronze escutcheon plates included.



# Electric Phonograph Pick-Ups

## Electrical Reproduction of Phonograph Records

### How the Electric Pick-Up Operates

If you have heard an electric phonograph, you no doubt marveled at the fidelity and naturalness of tone and the majestic volume of the reproduction without a trace of blur or distortion. Phonograph engineers turned to radio to obtain this depth and fullness of reproduction together with great volume without distortion. Contained within their cabinets are the latest type of radio power amplifiers—the secret of their life-like and natural reproduction.

Recently engineers have developed a simple and highly effective method for converting the old style phonograph into an electric phonograph. In conjunction with a radio receiver, together with an electric pick-up such as the Gradeon, Phonovox, Sensitone, or others, and any old style of phonograph, the quality of reproduction similar to that of this expensive electric phonographs is easily obtainable. No changes whatsoever are made in wiring of set.

The Pick-Up consists of three units—the reproducer, the adapter, which is inserted in the detector socket of your radio set in place of the detector tube and—the volume control unit. The reproducer replaces the ordinary reproducer and consists essentially of a permanent magnet in the field of which is a

specially designed coil; an iron rod placed within the coil terminates at the needle support or arm. A cord connects this reproducer with the adapter, which is inserted in the detector socket of the radio set.

With the Pick-Up thus attached, and the radio set turned "on," the Phonograph is started. As the needle moves in the grooves of the record it actuates the iron rod, causing the magnetic field about the coil to be altered, thereby setting up a current in the coil. This current varies in proportion to the intensity of the vibration of the needle in groove of record.

The energy thus developed is transferred, through the adapter in the detector socket of the radio set, to the audio frequency amplifier. Here the small initial energy is built up and amplified many times—just as a radio signal is amplified—then delivered to the loud speaker with a volume ample for all occasions. By the aid of the volume control the volume can be conveniently varied from a whisper to a volume suitable for dancing purposes. With electric reproduction you will particularly note the entire absence of all forms of interference common to radio reception such as static.

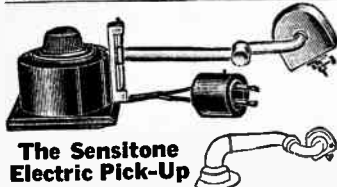


## Via-Rad

A marvelous new tone recreating instrument which can be attached to any phonograph in a few seconds. Changes your phonograph into a modern radio-actuated musical instrument of unsurpassed tone quality. Outfit consists of a VIA-RAD—a specially designed reproducer—which attaches to the tone arm in place of the phonograph sound box, a VIA-TECTOR which fits into detector socket of radio set and a VIA-TROL for regulating the volume. Easy to install, rugged and fool-proof and cannot get out of adjustment. Control your own broadcast programs with a VIA-RAD! Can be used as a dictaphone. Send for information. Shipping wt., 3 lbs.

**3B6492—L 1 s t. \$6.00**  
\$10.00, NET.....

**3B6496—Arm for above Pick-Up. NET..... 75c**



## The Sensitone Electric Pick-Up

One of the most sensitive and yet most rugged of this class of devices. Incorporates the most scientific construction. Made of best materials. Perfect workmanship. Gets the most volume and produces most perfect tones. Complete with volume control and adapter. Shipping wt., 5 lbs.  
**3B2653—With Tone arm. \$10.80**  
List, \$18.00, NET.....  
**3B2654—Without Tone arm. Reproducer fits standard phono-tone arm. List, \$16.00. \$9.60**  
NET.....



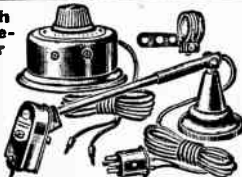
## Patent Phonovox

### Electric Phonograph Reproducer

This unit, developed by Patent Engineers, though very low in price has proven to be one of the best. It provides true tone values together with volume that will equal the electric phonographs selling at several hundred dollars. Equipment consists of Reproducer, volume control, plug for detector socket and connecting wires. Shipping wt., 3 lbs.

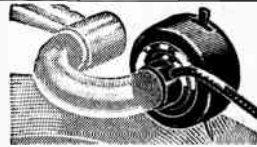
**3B2652—Retail Price, \$7.35**  
\$12.50, NET.....

## Bosch Recreator



Provides an auxiliary arm, so that the regular phonograph equipment need not be disturbed. Consists of special electrical recreator unit with arm, which plugs directly into detector socket of radio set and a sensitive volume control which is placed in the speaker circuit. Simple instructions furnished—anyone can install and operate it. Shipping wt., 3 lbs.

**3B6494—List, \$20.00. \$11.76**  
NET.....



## Na-Aid Electric Pick Up

A masterpiece of acoustical engineering, having features that cannot be claimed by any other device of its kind. Embodied is a volume control which makes possible perfect music from a whisper to the full blast of a jazz band. Also has a needle-scratch filter which eliminates the annoying hissing sound of the needle over the record. Installed instantly in place of regular phonograph unit. Ship. wt., 3 lbs.  
**3B6493—List, \$10.00. \$5.88**  
NET.....

## National Scratch Filter

For use with electrical phonograph pick-ups to subdue the amplification of needle scratch noises.  
**3B6495—List, \$5.50. \$3.30**  
NET.....

## Daven Electric Phonograph Pick-Up



A new idea in pick-ups. Magnetic type with double coil. Completely covers musical range with equal efficiency. Greatest volume. No needle scratch noise. Has volume control. Used without changing phonograph tone arm. Ship. wt., 2 1/2 lbs.  
**3B923—List, \$17.50. \$10.29**  
NET.....

Attached to the tone arm of any phonograph, the Gradeon carries the sound impulses from the record through the audio tubes of the radio set; amplifies them electrically, picks up all the fine tones usually lost and pours them forth in glorious splendor and volume through your radio loud speaker. Volume enough for dancing—tone quality surpassing the most expensive instruments.

You can now make the newest, the most sensational of all music reproducing instruments using only your phonograph and your radio! This new instrument adds the wizardry of radio to your most beloved phonograph records. No matter how satisfactory your present phonograph may be; no matter how splendid your radio—you can create an even better instrument by combining the two with the new Gradeon.

**3B2650—List, \$17.50. NET..... \$8.75**



## The GRADEON

LIST, \$17.50

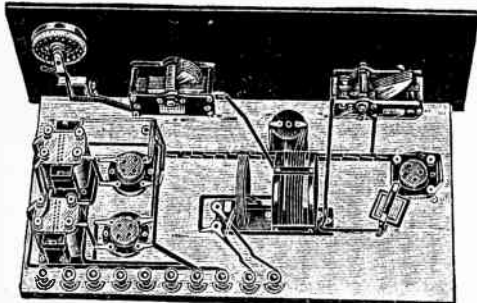
WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

# Our Special Amateur Section Everything For the Ham Station

## Aero-Coil Short Wave Kit

**\$26<sup>65</sup> Complete**

As Specified In Citizens' Radio Call Book



### LIST OF PARTS

1 Aero Foundation Unit, \$5.75; 1 Aero Short Wave Tuner Kit LWT 125, \$12.50; 1 Aero RF Choke Coil, \$1.50; 2 National Type B Dials @ \$2.50, \$5.00; 1 Amso .00014 Cond., \$2.75; 1 Amso .00025 Cond., \$3.00; 1 Yaxley Battery Switch, 50c; 1 Yaxley 25 ohm Rheo., \$1.35; 1 Benjamin 9040 Socket, 75c; 9 XL Binding Posts, \$1.35; 1 Carter .0001 Condenser

with Clips, 50c; 1 Yaxley 2 ohm Res., 15c; 1 Tobe Tipon 5 Meg. Grid Leak, 50c; 2 Thorlarsen 6-1 Trans., \$9.00; Bus Bar, 25c; Lugs, nuts and Screws, 50c.

**3B1059**—Complete set of parts.

List Price, \$45.85. NET.....

**\$26<sup>65</sup>**

Shipping weight, 15 lbs.

## Aero Special Short Wave Kit Approved by the Radio News Laboratory

Same as Aero Short wave kit except that it uses 3-Thordarson R-290 Transformers, two in the audio amplifier and one as a grid leak. Gives wonderful reproduction on short wave broadcast work. Not recommended for code work. May be used up to 550 meters by using the aero coils INT-4 and INT-5 shown on this page. Shipping weight, 18 pounds.

**3B774**—List Price, \$60.35.

NET..... **\$36.89**

## Aero Short Wave Converter

Tremendous interest has been displayed in short wave reception. Therefore this converter was designed to make your present receiver a short wave set. An old tube base may be used as a plug and the converter is simply plugged into the detector tube socket of your receiver so that you can have either short or long wave reception at will. Employs one UX 201 A tube.

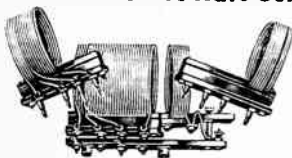
### LIST OF PARTS

1 LWT 125 Aero Short Wave Tuner Kit, \$12.50; 1 Amso .00025 Cond., \$3.00; 1 Amso .00014 Cond., \$2.75; 1 Aero C-60 Choke, \$1.50; 1 Carter .0001 mf. Cond. with Clips, 50c; 1 Tobe Tipon 5 meg. Grid Leak, 50c; 1 Benjamin Socket, 75c; \$5.00; 1 7x14x<sup>3</sup>/<sub>8</sub> Westinghouse Micarta Panel, \$1.53; 1 7x13x<sup>3</sup>/<sub>8</sub> Westinghouse Micarta Panel, \$2.13; 1 Pair Aero Subpanel Brackets, 70c; 5 lengths No. 14 Bus Wire, 15c; 1 Miscellaneous Lugs, Screws, etc., 65c.

**3B381**—Complete set of parts.

List, \$33.01. NET..... **\$18.45**

## Short Wave Coil Kit



Complete kit of 3 short wave plug in coils with a range of 20 to 250 meters.

Kit consists of three individual space wound coils wound on bakelite supports. Instructions for wiring. Must be tuned with .00014 mf. cond. Fixed resistor.

coil is controlled by a .00025 mf. condenser. Shipping weight, 1 pound.

**3B3550**—List Price, \$6.50. NET..... **\$3.50**

**3B3530**—Space wound plug in coil range from 200 to 550 meters for use on above.

List Price, \$2.00. NET..... **\$1.15**

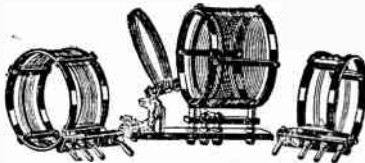
## B-T Short Wave Tuner

B-T bank-wound, skeleton frame tuner. The scientifically balanced relations between inductance values, circuit couplings, insulation and resistance gives unequalled results on short wave lengths. Shipping wt., 12 oz.

**3B4240**—Type SW, for short-wave, covers 0 to 150 meters.

List, \$4.00. NET..... **\$2.48**

## Aero Short Wave Coils



This kit consists of three interchangeable coils, 15 to 130 meters, each unit comprising a grid and plate inductance. Base is provided with a mounted adjustable primary coil, whose coupling may be set to suit long or short antenna. Any low wave tuner can be greatly improved by using AERO short wave coils. Used by leading engineers and amateurs throughout the world. Cases .00014 tuning condenser, .00025 feedback condenser. Includes 3 coils and mounting base. Shipping weight, 1<sup>1</sup>/<sub>2</sub> lbs.

**3B3522**—No. LWT-125. List, \$12.50. NET..... **\$7.34**

Broken Kits.

**3B1063**—No. INT-1, Range 15-33.5 meters.

**3B1064**—No. INT-2, Range 31.5-68 meters.

**3B1065**—No. INT-3, Range 37-133 meters.

List, each, \$4.00. NET..... **\$2.35**

**3B1066**—No. LWT Mounting Base.

List, \$3.00. NET..... **1.77**

## Aero Interchangeable Coils

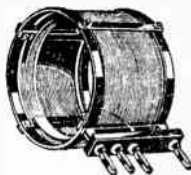
Optional for Greater Range with Short wave kit.

**3B3524**—INT-4 Coil, 125-850 Meters.

**3B3526**—INT-5 Coil, 235-550 Meters.

**3B6404**—INT-0 Coil, 13-29.4 Meters.

List Price, each, \$4.00. NET, EACH **\$2.35**



## Bremer-Tully Short Wave Kit

This is the short wave outfit with which 2NZ copied the first news of Byrd's successful flight over the North Pole. (Consists of four plug-in coils and base; adjustable, rotating primary; space wound coils on skeleton framework; fixed, capacitance-controlled tickler; at filament end of coils; covers 12 to 200 meters with L-T L-7, 150 mmf. condenser and L-13, 250 mmf. regeneration control. Shipping wt., 1 pound.



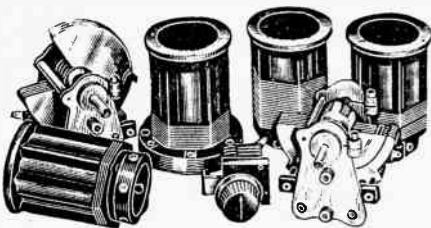
**3B4241**—Short Wave Outfit.

List, \$8.50. NET..... **\$5.10**



# Our Special Amateur Section

## Silver-Marshall Short Wave Kit



The S-M 635 Short Wave Kit contains carefully designed and matched essentials for constructing a receiver with wavelength range from 18 to 150 meters and a practically unlimited distance range.

Has been given great prominence through its use by expeditions such as Commander Tyott's in Brazil. Using the four coils supplied, the amateur transmitting bands fall well to the center of the tuning condenser scale, and may be shifted as desired irrespective of normal antenna length. "Dead spots" where the receiver will not oscillate are totally eliminated. Further, the antenna condenser allows easy adjustment of antenna coupling to suit individual condition of location and antenna.

When built up using a pair of 220 transformers for audio amplification, making a three tube set, they will give excellent reception of distant short wave amateur and broadcast stations even in bad radio conditions.

Kit contains one each No. 117 M, N, O, and P, plug in coils; one 515 coil socket; one 340 microfarad condenser and two 317 variable condensers. Weight, 3 lbs.

**3B4875—List price, \$23.00. NET..... \$13.52**

### Type 117 Kit of Coils Only

Consists of one each No. 117 M, N, O, and P coils licensed under Armstrong Patent No. 1,113,149. Range 18-150 meters with .00014 mfd. condenser. Weight, 1 lb.

**3B4819—List price, \$11.00. NET PRICE..... \$6.47**

### Hammarlund Space Wound Coils

For the amateur who makes his own coils. No. 16 green-cotton-silk covered copper wire, space wound ten turns to the inch, on transparent celluloid composition tube .005 inch thick, 3 inches diameter. Exceedingly strong and rugged. For choke coils and ticklers another size is available—1 1/4 inches diameter, No. 36 single silk covered wire, 90 turns to the inch. Use these meritorious inductances in your own receiver design. Maximum length 20 inches in one piece.

**3B5910—Size 16 wire..... 24c**  
**3B5911—Size 36 wire..... 24c**  
 List per inch, 40c. NET.....

### Barawik Choke Coils

A small low capacity choke coil for receiver plate chokes has been in demand for some time as few amateurs care to go through the necessary experimental work to arrive at the best values. Here is a small honeycomb coil, only one inch in diameter and one-quarter inch thick, wound with fine wire. They are especially manufactured for us and have been recommended in many QST articles. Unmounted, two leads. Postage 3c extra.

**3B5903—Each..... 39c**

### Tubes for Short Wave Receivers CX300A—Power Detector



A very sensitive power detector. Gas filled giving very great sensitivity, yet it is very stable and non-critical in adjustment. Produces loud signals which would otherwise be unheard. Oscillates as low as ten meters. Filament 5 volts, 1/4 amp.  
**3B1031—Cunningham CX300A. List, \$4.00. NET..... \$2.74**

### CX340—Hi-Mu Amplifier

This new tube is especially suited to amateur work. Its high plate impedance when used with transformers peaks the amplifier at 1000 cycles, giving tremendous amplification to the signals but not amplifying static and similar noises. Amplification constant of tube is 30. Filament 5 volts; 1/4 amp.

**2B939—Cunningham CX340. List, \$3.00. NET..... \$1.54**

### Designed especially R.E.L. 130 Short Wave Kit

for short wave work. This kit is the ultimate in its field. A very wide tuning range—10 to 200 meters—is obtained by the use of eight R. E. L. plug-in coils. All parts are supplied for a complete short wave receiver. Moisture-proof coils; double spaced condenser; non-metallic friction vernier; large scales engraved on panel; front panel assembled. One stage audio. Easily built by anyone. Designed by pioneers and widely recommended by short wave experts. Panel size, 7x14 inches. Depth of set, 9 inches. Complete instructions furnished. Shipping wt., 15 lbs.  
**3B6400—Complete Kit, no tubes included. \$25.20**  
 List, \$36.00. NET.....



### R. E. L. Short Wave Coil Kit

This kit of coils has been designed to meet the demand for special short wave circuits requiring separate primary, secondary, and tickler coils. They are of the basketweave (Lorenz) type having very low losses. Six coils are supplied giving a wave length range of 15 to 100 meters when tuned with a .0001 mfd. condenser. Base mounting included. Shipping wt., 1 1/2 lbs.



**3B6401—List per set, \$6.00. NET..... \$4.20**

### Low Loss Bakelite Coil Supports

For the amateur who builds his own coils we highly recommend the bakelite tubing and strips listed here. They can be assembled together to make a very low loss support for any of the new low loss windings. Make your own interchangeable coils with these and the plugs and jacks shown to the left. Magnet wire for these coils will be found on page 104. All tubing is 3/8 in. wide, 1/16 in. thick. Dimension given is inside diameter.



	Two pieces	Ten pieces
<b>3B2300</b> —2 1/2 in. ....	19c	68c
<b>3B2301</b> —2 3/4 in. ....	22c	74c
<b>3B2302</b> —3 in. ....	24c	78c
<b>3B2303</b> —3 1/4 in. ....	29c	82c
<b>3B2304</b> —3 1/2 in. ....	29c	89c
<b>3B2305</b> —Bakelite strips 1/4 in. wide, 1/16 in. thick, 6 in. length		<b>20c</b>

### General Radio Plugs and Jacks

Used by amateurs the world over. Make your own plug-in coils and condenser. Plugs spring brass. Contact whole length of jack. Highly nickel plated.



**3B5905—Plug..... 11c**  
**3B5906—Jack..... 19c**

### R. E. L. Type "A" Wavemeter

#### Know Your Wavelength

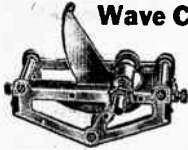
Don't risk the loss of your license. Stay on the proper wavelength. The type "A" wavemeter will be found satisfactory for all general purposes. It is essential in every radio station, both broadcast and amateur. Particularly adapted for short wave receiving and sending stations and other laboratory work. Wavelength range 17—530 meters.



**NEON TUBE INDICATOR:** A very sensitive resonance indicating device, is supplied with this wavemeter. It is as accurate as any on the market for the same price. Totally shielded—not affected by outside influences. Retains accuracy permanently. Easily read, accurate curve charts included. Shpg. wt., 5 lbs.  
**3B6402—List Price, \$22.00. NET..... \$16.50**

# Our Special Amateur Section

## Karas Orthometric Short Wave Condensers

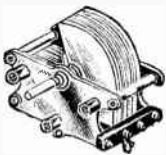


Karas Condensers are an example of beautiful workmanship and electrical efficiency combined in one unit. The plates are shaped of heavy lacquered brass, securely soldered and give a straight-line frequency curve. The rotor is pigtailed to the frame and binding post through an insulated spring-bronze coil, insuring noiseless action. The insulation is efficient and the condenser resistance is negligible. Available in three sizes. Prices are prepaid.

	Plates	mmf.	
3B1823	5	100	\$3.90
3B1809	7	140	3.90
3B1824	11	250	3.90

## Cardwell Variable Condensers

No better condenser can be used in a short-wave radio set than a Cardwell. Standard equipment with the amateur and experimenter for many years, and their quality is unexcelled. Two types are available.



The new type E Taper Plate is the latest model straight-line-frequency style and is daily becoming more popular. Its use is recommended in the tuned circuit of the receiver. Type C is a shaped plate straight-line wave length style and is intended for either regeneration control or tuning.

	Mfd.	List	Net.
3B3400-191E	.00075	\$4.00	\$2.66
3B3401-167E	.00015	4.00	2.66
3B3402-168E	.00025	4.26	2.76

### Type C

Tuning curve gives straight frequency at low end and straight wave length at top.

	Mfd.	List	Net.
3B3444-167C	.00075	\$4.00	\$2.70
3B3445-168C	.00015	4.00	2.80
3B3446-170C	.00025	4.25	2.97

## Chelton Midget Condensers

Best grade construction. Fine looking.

Can be used as verniers on any condenser or separately as a neutralizing or balancing condenser. Especially adapted to capacity coupled antenna circuits. High conductivity brass plates. Hard rubber insulation, not in electrostatic field. One-hole mounting. Postage, 3c extra.



3B3423-Panel Mount type-13 plates maximum .00045. Each.....	39¢
3B3424-Panel Mount type-9 plates maximum .00035. Each.....	39¢
3B3426-Base Mount type-9 plates maximum .00035. Each.....	\$1.03

## B-T-R. F. Choke Coil



This is a small choke, mounted in a moulded bakelite case with two binding posts for connection. It consists of several series windings of fine wire on a wooden spool and has a high L/C ratio. Suitable for receiving sets only.

3B4308-Each... \$3c

## Fixed Condensers

See pages 94, 96

## Bremer-Tully Die-Cast Condensers



The Bremer-Tully is a rugged, electrically efficient die-cast model throughout. The rotor and stator are individual castings assembled between metal end-plates and securely pigtailed. Clear bakelite insulation, adjustable rotor tension, straight-line wave length plates, and unique design are some of its features. Two sizes are available.

	Type	mmf.	Price
3B4243	L-7	150	\$2.50
3B4244	L-13	250	2.65

## Hammarlund, Jr.

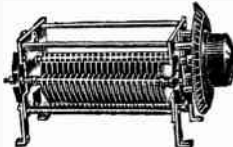
A baby precision condenser built with great care. Soldered brass plates, cone bearings, locking device for any position. Single hole mounting. Just the thing for that 5 meter transmitter or wavemeter. Ship. wt., 5 oz.



	M. Cap.	List	Net
3B3335	.000016	\$1.50	\$0.90
3B3336	.000032	1.50	.90
3B3337	.000050	1.50	.90
3B3338	.000065	2.00	1.20
3B3339	.00001	2.25	1.35

3B3319-Table Mounting bracket for above. Each..... 15c

## National Transmitting Condensers



One of the finest types of high voltage condensers that can be made. These are double or triple spaced models, ruggedly built of aluminum plates and securely pig-tailed. Supplied with National Velvet Vernier dial and pointer and completely mounted for quick installation. Ship. wt., 3 1/2 lbs.

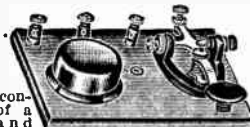
3B5928-.0001 mfd.-6000 volts. List, \$12.50. Net, \$8.75

3B5926-.00015 mfd.-3000 volts. List, \$7.50. Net, \$5.25

3B6389-.00023 mfd.-3000 volts. List, \$11.50. Net, \$8.05

3B5927-.00045 mfd.-3000 volts. List, \$15.50. Net, \$11.55

## Code Practice Set



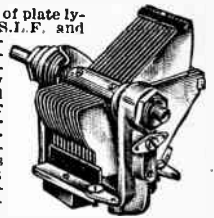
Set consists of a key and buzzer mounted on a polished wood base.

Buzzer reproduces accurately the high pitched sounds of code stations. Connect a dry battery to the binding posts on the set by means of a short piece of wire, press the key and a buzzing sound will be produced. In a very short time your ear will become accustomed to the various combinations of dots and dashes representing different letters and numerals. Chart included with each set. Base size, 7 inches long by 4 1/2 inches wide.

3B5998-Each..... \$2.89

## Hammarlund Midline Condensers

A new shape of plate lying between S.I.F. and S.L.W. Hammarlund's latest and embossed series several new principles. Full floating rotor as a feature. Pigtailed, burnished and lacquered brass plates. Lowest losses. Mechanically and electrically perfect.



	Plates	Cap.	Price
3B3323	11	.00025	\$3.85
3B3331	5	.0001	3.61

## Hammarlund S. L. F.

A light, strong and efficient straight-line-frequency condenser assembled from polished brass plates, securely soldered and pigtailed similar to the Midline. The frame is rib-reinforced aluminum alloy; the minimum of dielectric is used and the unit is single-hole mounting. The shaft is full floating, with ball and cone bearings, and a friction brake. Two types are available, the standard single-spaced model in three capacities and a special double-spaced model, especially intended for short-wave receiver secondary tuning.

Postage, 8c extra.

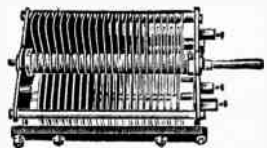
	Plates	mmf.	List	Price
3B6385	5	100	\$4.76	\$3.06
3B6386	7	150	5.00	3.26
3B6387	11	250	5.00	3.25
3B6388	11 double spaced	100	5.00	3.25

## Hammarlund Transmitting Condensers

Tested to withstand very high potentials.

	Max. Cap.	List	Net
3K3461	.0001 mfd.	\$ 6.00	\$3.90
3K3462	.0002 mfd.	7.00	4.55
3K3463	.0004 mfd.	10.00	6.50

## Cardwell Transmitting Condensers



A very popular condenser for amateur stations. Built with the greatest care—heavy low loss construction, wider spacing, high insulation, lower losses, are their main features. Shipping weight 5 lbs.

	Cap.	Type	Net
3B6391	245	141-B	\$ 4.25
3B6392	480	123-B	6.00
3B6393	954	137-B	6.00
3B6394	217	164-B	7.00
3B6395	440	147-B	10.00
3B6396	217*	157-B	12.00
3B6397	330	T-199	10.00
3B6398	110	T-183	10.00

## Standard Radio Key

A heavy type of Radio Key designed for larger capacity radio work. The arm, base, and supporting posts are made of heavy cast brass. The whole key is of rugged construction, so it will stand up well under rough usage. The contact points are 1/2 in. diam. which assists materially in the dissipation of the heat produced. They are made of a metal which will resist arcing.

3B5833-Postage, 6c extra. \$2.69

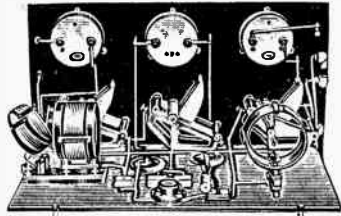




# Our Special Amateur Section

## Aero Transmitter Kit

A universal transmitter designed by Mr. F. J. Marco, noted short wave expert. Covers amateur bands with interchangeable coils. Uses tuned-grid tuned-plate circuit. Extremely flexible. Makes a very efficient low power, long distance. Has worked all districts from Chicago and New York regularly using only a 201-A tube. May be used with tubes not larger than 7½ watts. Supplied for two different ranges. If to be used with A. C. filament supply specify so A. C. voltmeter will be supplied.



### List of Parts

1 Aero Transmitter Kit, 2040K, 4080K, or 9018K with 2 mounting bases and 2 No. 248 choke coils; 3 .0005 Variable Condensers, Karas; 3 Dials; 1 Carter T. P. 10000-25 resistance; 2 Carter .0001 Mica Condensers; 2 Carter .00025 Mica Condensers; 1 Silver-Marshall UX Socket, 7 Binding Posts; 1 Micarta Tx18 Panel; 1 Micarta 10x18 Sub-Panel; 10 lengths No. 14 Tinned Copper Wire; 1 Miscellaneous Screws, Lugs, Nuts, etc.; 1 pair Aero Subpanel Brackets.  
(This Kit does not include Meters.)

**3B378**—For 16.5 to 52 Meters, 2040K coils.

**3B379**—For 36 to 90 Meters, 4081K coils.

**3B380**—For 72 to 190 Meters, 9018K coils.

Complete set of parts, List, \$44.25.

NET ..... **\$25.65**

Shipping weight, 15 lbs.

## Transmitter Kit with Meters

These kits are exactly the same as the above except they have in addition 10x18½ panel; 1 0-100 D. C. Jewell Milliammeter; 1 0-100 Jewell Voltmeter and 1 0-1 Ampere Jewell Antenna Meter. Specify whether to be used on A. C. or D. C. filament supply. Shipping weight, 22 lbs.

**3B382**—16.5 to 52 meters.

**3B383**—36 to 90 meters.

**3B384**—72 to 190 meters.

List, each, \$67.60, NET .....

**\$44.67**

## Interchangeable Transmitter Coils

**3B3629**—2040C 16.5 to 52 meter coil. } List, Each, \$2.35

**3B3644**—4080C 36 to 90 meter coil. } \$4.00.

**3B3631**—9018C 72 to 190 meter coil. } NET ..... **\$1.76**

**3B3632**—PRI 300 Antenna Mounting Base. } \$3.00, NET .....

**3B3633**—GRID-100 Grid Mounting Base. } **59c**

List, \$1.00, NET .....

**3B3634**—Aero Choke Coil No. 248. } **88c**

List, \$1.50, NET .....

Shipping weight above, ½ lb.

## Jewell Transmitting Trio



These are the necessary instruments for amateur transmission. Uniform in size, 3 in. body, 3½ in. flange. Shp. wt., 3 lbs.

No. 54 D. C. List, \$7.50, NET, \$6.63

**3B1970**—0-10 volts.

**3B1971**—0-3 amps.

**3B1924**—0-10 milliamperes.

**3B1923**—0-25 milliamperes.

**3B1926**—0-100 milliamperes.

**3B1926**—0-300 milliamperes.

**3B1928**—0-500 milliamperes.

Following Equipped with External Resistor

List Net

**3B1918**—0-500 volts, \$15.50 \$12.00

**3B1919**—0-1000 volts, 22.50 17.20

**3B1920**—0-1500 volts, 28.50 22.00

**3B2007**—A. C. Voltmeter 0-15 volts, 22.00

List, \$7.50, NET, \$6.63

## No. 64 Radiation Ammeter

Thermo couple type with D'Arsonval movement. Same size as No. 64.

**3B1907**—5 amp. List Net

**3B1908**—1 amp. List Net

**3B1909**—1.5 amps. } \$12.00 \$9.00

**3B1910**—3 amps. }

**3B1911**—5 amps. }

## No. 74 A. C. Voltmeters

For reading transmitter filament voltage A. C. only. Used only on 60 cycle A. C. current. Same size as No. 54.

Shipping wt., 3 lbs.

List, \$7.50, NET, \$6.63

**3B1966**—0-10 volts. } For 5 watt tubes

**3B1967**—0-3 amps. }

**3B1968**—0-15 volts. } For 50 watt tubes

**3B1969**—0-10 amps. }

## Aero Short Wave Chokes

Designed for uniform choking over the amateur bands. Eliminates the appearance of so called "holes" in the tuning range where the receiver will not oscillate. Short wave special is used for any type short wave receiver.



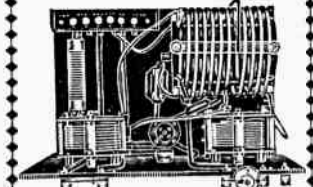
For transmitters use No. C-248 especially designed for transmitting circuits. Good on all amateur wavelengths. Will handle transmitter up to 100 watts.

**3B6405**—Short wave Special.

**3B6406**—Transmitter.

List each, \$1.50, NET, **88c**

## R.E.L. Transmitter



Here is the ideal beginner's short wave telegraph transmitting kit. It is made up of very carefully selected parts specified by the short wave authorities in Q S T. Great distances can be covered on low power with this efficient transmitter. Any type tube may be used—189, 201A, 171, 112, or 210. May be used on any power supply—B batteries, B Eliminator, Motor generator or AC from a transformer as long as the voltage is correct for the tube. May be used on any wave length from 15 to 100 meters. Panel size Tx14 inches. Depth 9 inches. Perfectly matches the R. E. L. receiver. Shipping wt., 15 lbs.

**3B6407**—No. 175 Transmitter. List, \$30.00, NET, **\$22.50**

NET .....

## Karas Micrometric Dial

An excellent dial for amateur work. Gives at will either direct action or 63/1 vernier allowing a movement of 1/1000 of an inch. Now you can tune those distant and elusive stations with ease. Turns easily and smoothly—no backlash. Made of beautiful molded bakelite. Diameter 4½ inches. Fits ¼ inch shaft. Shipping wt., 10 oz.

**3B1828**—180° Counter-clockwise.

**3B1829**—360° Clockwise.

All type—List, \$3.50, NET, **\$2.06**

NET .....



## National Variable Vernier Dial

The type "B" dial is especially suited to the varying conditions of the amateur. Any Vernier ratio of from 6/1 to 20/1 is instantly available. No slippage or backlash—turns very easily. Hair line indicator for accurate tuning. Beautifully made of moulded bakelite. Metal parts nickelled, graduated full 360°. Fits any ¼ in. shaft. Shipping wt., 8 oz.

**3B4146**—Clockwise.

**3B4147**—Counter-clockwise.

List each, \$2.50, NET, **\$1.50**

NET .....



WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3



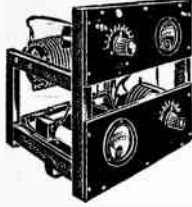
# Our Special Amateur Section

## Radio Engineering Laboratory Transmitter Kits



The Radio Engineering Laboratories have long been known as the leaders in the short wave field. To meet the demands of the amateur for all kinds of high quality transmitting apparatus, they have designed the transmitter kits displayed below. These kits are the highest type of apparatus that can be

built. They will work efficiently in all locations and under all conditions. We shall be very glad to answer your inquiries concerning any of this apparatus as we are here to serve the amateur and we firmly believe this the best apparatus that can be bought at any price.



### No. 157. Coupled Hartley

The popular loose coupled Hartley circuit is used in this kit. This is the simplest type of transmitter and will be found extremely easy to place in operation. An excellent crystal amplifier stage is obtained by using the series feed circuit with this kit.

Power supply can be had either through motor generator, rectified A. C. or "B" batteries. All parts are supplied to make a complete transmitter. Supplied in the two sizes most commonly used by amateurs. No tubes, batteries or other accessories included.

- 3B6430**—Type TR-5. Uses 210 Tube, 7½ watts. **\$50.40**  
List, \$56.00. NET.....
- 3B6431**—Type TR-75. Uses UX852 Tube, 75 watts. List, \$63.00. NET..... **\$56.70**

### Self Rectified Coupled Hartley

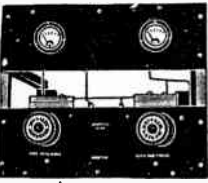
Looks similar to Coupled Hartley above. By using two tubes as oscillators in the self rectified circuit a good signal tone can be produced without the additional use of extra rectifier tubes. The only other apparatus necessary is the power transformer which supplies the plates and filaments. This combination is popular with the amateurs because of its simple means of obtaining the power supply direct from a transformer. A good short wave transmitter and a distance getter. Complete except tubes and power accessories. Shipping wt., 20 lbs.

- 3B6433**—No. 152. Type S-5-H. Uses 2-UX210 tubes—7½ watts. List, \$60.50. NET..... **\$54.45**
- 3B6434**—No. 152. Type S-75-H. Uses 2-UX852 tubes—75 watts. List, \$73.00. NET..... **65.70**

### No. 136 Low Power Radiophone

Interest in amateur phone work has been renewed. R. E. L. is on the job. Here is a very compact and efficient low power phone transmitter. Adaptable to all tubes with standard or UX bases—199, 201A, 112, 210 types. Uses two tubes of the same kind. Any standard carbon microphone will do. Use any kind of direct current power supply that matches the tubes used. Use storage battery for filament voltage. Makes an unusually fine portable transmitter. Complete with instructions. No tubes, batteries nor microphone included. Shpg. wt., 20 pounds.

- 3B6432**—List Price, \$68.00. NET..... **\$61.20**



### Electrolytic Rectifier

When assembled these rectifier kits furnish complete power supply to the transmitters. Simply plug in to your 110 volt A. C. house line socket connections. Includes all filter and power apparatus. Also plate and filament volt meters. Uses electrolytic jars for rectification. Performs very efficiently and gives complete satisfaction. Matches transmitters in appearance. Shpg. wt., 125 lbs.

- 3B6441**—No. 158 Type R-10-C. For 5 Watt Kits. List, \$96.00. NET..... **\$ 86.40**
- 3B6442**—No. 158 Type R-75-C. For 75 Watt Kits. List, \$120.00. NET..... **108.00**

### De Forest H-Tube Holder



To be used with De Forest H tube or De Forest HB rectifier tube. An ideal socket for the ultra S. W. tube.

- 3B6443**  
List, \$2.00.  
NET..... **\$1.40**

### UX852 Holder

Holds tube absolutely rigid. Connections for grid and plate leads. Provisions for mounting of grid and plate condensers. Insures short direct leads.

- 3B6444**—List, \$2.50.  
NET..... **\$1.75**



### R. E. L.-R. F. Choke

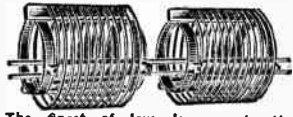
To make your short wave circuits operate properly you must have the proper radio frequency choke coils. Here is a choke designed especially to meet the problem of the amateur. They effectively eliminate the dead spots in a receiver due to antenna harmonics. They also protect the valuable meters in your transmitting circuits. These chokes are wound with triple core paraffin on a bakelite tube 4 inches long and ¾ in. diam. Designed to carry 1000 milliamperes. Shipping weight, 8 oz.

- 3B6445**—List, \$1.10. **77c**  
NET.....



We Pay Freight, See Offer Page 3

### R. E. L. Transmitting Inductances

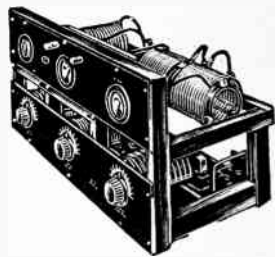


The finest of low-loss construction. Pyrex glass insulation between turns; flatwise wound nickel-plated copper strip. Suitable for anything from a receiving tube transmitter to a one kilowatt set. Made in two sizes, type L, 5 inches in diameter, for 40, 80 and 150 meter bands, type S, 2½ inches in diameter for 20 meter band and lower. Single units have three positive contact clips. Double units have primary and secondary with two glass coupling rods and six clips.

- 3B5987**—Type L single unit... **\$3.85**  
**3B5988**—Type S single unit... **3.95**  
**3B5989**—Type L double unit... **7.70**  
**3B5990**—Type S double unit... **7.70**

### Master-Oscillator-Power-Amplifier

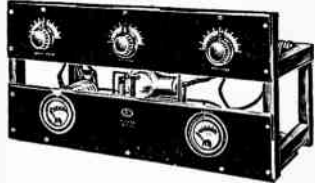
Next to a crystal controlled transmitter the master-oscillator-power amplifier set will put out the steadiest signal. Antenna swinging has practically no effect on the emitted signal. This circuit is recommended where consistent communication is a requirement. Complete kit of parts. No tubes, batteries nor other power accessories included. Shpg. wt., 25 lbs.



- 3B6439**—No. 155. Type TR-5. Uses 2-210 Tubes. List, \$77.40 **\$66.00. NET.....**
- 3B6440**—No. 155. Type TR-75. Uses 2-UX852 Tubes. List, \$96.00. NET..... **\$86.40**

### Tuned Plate Tuned Grid

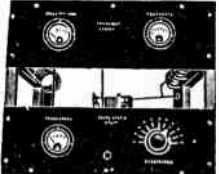
The Most Popular Ham Circuit. This is one of the most popular present day transmitters. A large majority of short wave stations are employing this circuit.



- Very efficient for short wave work. Complete kit of parts. No tubes, batteries nor accessories included. Shpg. wt., 20 lbs.
- 3B6437**—No. 139. Type TR-5. Uses UX210 Tube. List Price, \$71.00. NET..... **\$63.90**
- 3B6438**—No. 139. Type TR-75 Uses UX852 Tube. List Price, \$80.00. NET..... **72.00**

### Modulator and Speech Amplifier

These combined modulator and speech amplifier kits were expressly designed for use with any of the oscillator units listed. The general appearance and dimensions are the same as their corresponding oscillators. This insures neat appearance to transmitters built up of these symmetrical units. They are used to feed the oscillator tube when using radiophone transmission. With this kit and the corresponding size oscillator, using pure D. C. on the plate, a very excellent phone station can be built. Kit contains all parts necessary. No tubes, batteries nor other accessories included. Shpg. wt., 20 lbs.



- 3B6435**—No. 159. Type MS. For 210 tube—7½ watts. NET PRICE..... **\$62.00**
- 3B6436**—No. 159. Type M75. For UX852—75 watts. NET PRICE..... **72.00**



# Our Special Amateur Section

## Acme Transformers and Chokes

Acme Apparatus has long been preferred by the American amateur. In recognition of this faith they have constantly striven to produce better apparatus. Their new type transformers will fit practically all C. W. requirements.

**Type TR 5**—500 watts cap. supplies 2000-1500-1000 volts each side of center tap, at 250 mls.

**Type TR 2**—200 watts cap. supplies 750-550 each side of center at 250 MA.; and has 2-10 volt, 5 amp. filament winding.

**Type TR 4** has two 10 volt 8 amp. filament windings only.

Cat. No.	Type	List	Net
3B6446	TR 5	\$30.00	\$22.50
3B6447	TR 2	20.00	15.00
3B6448	TR 4	18.00	13.51

Cat. No.	Choke Coils	List	Net
3B6449	1½ henry, 150 MA Single Coil	\$4.00	\$3.00
3B6450	1½ henry, 150 MA Double Coil	6.00	4.50
3B6451	1½ henry, 500 MA Single Coil	6.00	4.50
3B6452	1½ henry 500 MA Double Coil	8.00	6.00
3B6453	6 henry 150 MA	10.00	7.50
3B6454	6 henry 300 MA	14.00	10.50
3B6455	6 henry 600 MA	18.00	13.51
3B6456	30 henry 150 MA	18.00	13.51
3B6457	30 henry 300 MA	25.00	18.75
3B6458	30 henry 600 MA	33.00	24.75

## Ward-Leonard Transmitting Grid Leaks



These resistances are standard throughout the world and are especially recommended for amateur work. They are wire wound of special wire upon a refractory tube and then coated entirely with fused vitreous enamel. Heating and cooling have no effect on their resistance at any moment. All models listed except 3B6468 center tapped. Ship wt., 1 lb.

**3B6464**—6000 ohms. For up to 50 watts input. List, \$2.00. Net...\$1.30

**3B6465**—5000 ohms. For up to 1000 watts input. List, \$2.60. Net...\$1.82

**3B6466**—1000 ohms. For up to 1000 watts input. List, \$4.00. Net...\$2.60

**3B6467**—20000 ohms. For up to 1000 watts input. List, \$4.25. Net...\$2.77

**3B6468**—15000 ohms, tapped at 5000, 10000, and 15000 ohms. For up to 1000 watts input. List, \$6.00. Net...\$3.90

**3B6469**—200 ohms, center tapped for obtaining transformer neutral point. List, \$1.25. Net...\$82c

## Pyrex Insulators

The ideal insulator. Does not absorb moisture or collect dust. Mechanically strong and light in weight. Conserve the valuable energy in your antenna by using good insulators.



## Antenna Insulators

**3B6470**—For receiving antennas. Length 3¼ in. Leakage path 6 in. Strength 150 lbs. Ship. wt., 8 oz. List, 45c. Net...\$37c

**3B6471**—For amateur transmission. Length 7¼ in. Leakage path 6 in. Strength 1000 lbs. Ship. wt., 1½ lbs. List, \$1.65. Net...\$1.15

**3B6472**—Strain Insulator of base 1½ in. Length 6 in. Leakage path 1¼ in. List, \$3.50. Net...\$2.45

## Lead-in Insulators

Familiar custard cup type for powers up to 2 k. w. Height 4¾ in., width at bottom 6¼ in. Ship. wt., 2½ lbs. List, \$1.75. Net...\$1.05



## Stand-Off Insulators

**3B6474**—For insulating lead-in wire of receiving sets or transmitting sets. Fine for mounting apparatus. Height 3 in., length of base 3¼ in., width of base 1¾ in. Hole 16 threads per inch tapped in top brass cap. Ship wt., 2 lbs. List, \$2.75. Net...\$1.92

**3B6475**—Large size for powers up to 1 k. w. Same as above except 7 in. high. length of base 2¼ in. width of base 1¾ in. Ship. wt., 2½ lbs. List, \$3.00. Net...\$2.10



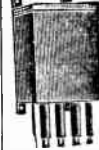
## Thordarson Power Transformers Filament (Shell Type)

The newest and most complete line of shell type filament transformers. Both primary and secondary winding assembled on the center core. Secondary is made of heavy copper ribbon and wound in pancake form. Tap brought out at center. Mounted in a heavy durable frame. Bakelite terminal boards. Standard primary 110 volts, 60 cycles. Ship. wt., 10 lbs.



	Cap.	Sec.	List	Net
	Watts	Volts		
3B5980	30	8½	\$ 7.00	\$ 4.90
3B5981	150	12	10.00	7.00
3B5982	300	12	15.00	10.50

## Plate Supply



We encourage the use of shell type transformers for high voltage plate supply transformers because of their high efficiency and good regulation. Supplied mounted in a heavy black steel case. All leads brought out through porcelain bushings. Two secondary coils on every transformer. Standard primary 110 volts, 60 cycles.

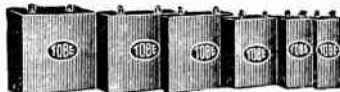
	Cap.	Second. Each	Wts.	Slide of Ntrl.	List	Net
3B5983	100	350 and 550	13.00		\$ 9.10	
3B5984	450	1000 and 1500	18.00		12.60	
3B5985	900	1000 and 1500	30.00		21.00	

## Thordarson Special 7½ Watt Transformer

This has a filament voltage of 10 volts and plate supply voltage of 650 volts designed for use with one 7½-watt tube. Built shell type, unmounted only.

3B5824	—List, \$7.50.	Net...\$5.25
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## Tube Transmitting Filter Condensers

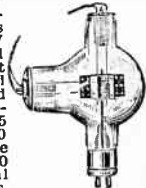


These condensers have been especially designed for amateur transmitting purposes and have a high factor of safety. They are individually tested for voltage safety and capacity and are guaranteed within 5% of rated values. The larger sizes are fitted with brass binding posts, the smaller with heavy soldering lugs. They are put up in finished aluminum cases and so constructed to hold their operating characteristics without variation.

Cap. Mfd.	1000 Volts	2000 Volts
.1	3B5967 \$ 1.62	
.5	3B5969 2.60	3B5974 \$ 5.20
1.0	3B5970 3.25	3B5976 9.10
2.0	3B5971 5.85	3B5977 15.60
5.0	3B5973 11.05	

## Transmitting Tubes UX-852

A new Tube for amateur use. Net output 75 watts on waves from 7 meter up. Standard UX base on filament end. Plate and grid leaks thru top and side of tube. Filament 10 volts, 3.25 amps. Plate 2000 volts, 75 M.A. Safe power dissipation 100 watts. The ideal tube for short waves. Shipping wt., 2 lbs.



3B6460—UX852.	List, \$27.63
	\$32.50. Net...

## UX-210—7½ Watts

For the low power transmitter, this tube cannot be beat. Will deliver a R. F. Output of over 30 watts, since they safely dissipate 15 watts in plate heating. Low interelectrode capacity making for stability on short waves. Filament 7.5 volts, 1.25 amps. Plate rating 425 volts but much higher can be used in an efficient circuit. Use this tube and get real DX on low power.

3B1038—List, \$9.00.	\$6.30
	Net...

## Transmitter Microphone

Well made from standard telephone parts. Carbon element especially constructed for radio telephone work. Metal parts are nickel plated and polished. Has black knurled handle. Shipping weight about 2 pounds. Complete with handle and cord.



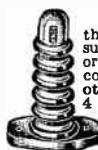
3B6498—List price, \$6.00.	\$3.60
	Net price...

## Enamelled Antenna Wire

It has been generally settled that for short-wave work a solid antenna wire is more suitable than a stranded wire. Since corrosion due to smoke and the elements is very destructive to the surface of bare copper wire, it has been found that enamelled wire is far preferable in keeping antenna resistance losses down. This No. 12 wire, soft wire, is adapted to both transmitting and receiving aerials.

2B5904—Per 100 foot coil...	\$89c
	Postage, 10c extra.

## Porcelain Standoff Insulators



This insulator is larger in size than the General Insulator and is suitable for higher voltage work or where leads must be kept at considerable distances from other material; highly glazed. 4 inches high. Postage, 3c extra.

3B2614—	12c
	Each...

## Small Standoff Insulators

Suitable for supporting wiring and instruments in transmitters or lead-ins. Dark brown glazed porcelain 1¼ in. long, 1¼ in. high. Ship. wt., 8 oz.

3B6459—List, 20c.	Net...12c
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## Lead-In Insulators

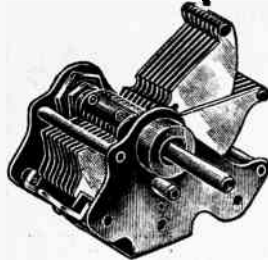


Made of moulded hard rubber. Fits ¾ inch hole. Securely locked by two adjustable nuts.

3B2608—For 2¼ in. or smaller walls.	Each...35c
3B2609—For 8¼ in. or smaller walls.	Each...56c

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

# Set Builders Special Condensers



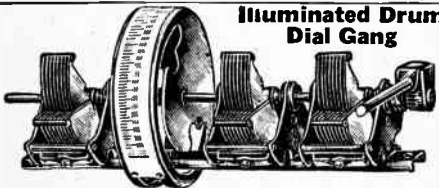
A big condenser value for the set builder and manufacturer who desires a quality condenser at a low price. All types have removable shafts and are strongly built mechanically. Heavy brass plates held in alignment with brass tie rods. Excellent insulation with minimum dielectric. Very low loss, and highly efficient. All units .00035 mfd. Modified, straight-line, wave-length tuning curve.

	Shpg. wt.	List	Net
3B3419—Single	12 oz.	\$2.50	\$0.90
3B3380—Two Gang	2 lbs.	5.00	1.90
3B3381—Three Gang	3 lbs.	8.00	2.90



## Gang with Link Motion

	Shpg. wt.	List	Net
3B3421—Triple—With Link Motion	3 lbs.	\$9.00	\$5.19
3B3422—Double—With Link Motion	2 lbs.	6.00	3.60



## Illuminated Drum Dial Gang

	Shpg. wt.	List	Net
3B3420—Triple—With Drum Dial	3½ lbs.	\$15.00	\$4.85

## Condenser Shafts

Material	Length	Each
Brass	9 in.	1.4c
Brass	12 in.	1.9c
Brass	16 in.	2.5c
Bakelite	8 in.	3.4c
Bakelite	12 in.	5.1c
Bakelite	16 in.	6.8c

Shpg. wt., Brass 8 oz.; Bakelite 4 oz.

## Insulated Flexible Coupling

Its flexibility permits operation of any number of condensers in tandem, without requiring exact alignment of condensers. Bakelite insulation. Bronze springs. Two sets screws.

3B3308—Each... **36c**

Centriline type, giving a calibration lying between S.L.F. and S.L.W. Parts are gold finished, end plates heavy polished aluminum. Automatic constant tension, pig-tail lead to rotor, extension shaft in rear, low minimum capacity, extremely low losses, single or two-hole mounting. Shaft ¼-in. diameter. Calibration and coil data furnished. Shipping wt. 1½ lbs. each.

## PILOT Condensers



		List	Net
3B3416	8 p. .00017 mfd.	\$1.90	\$0.94
3B3415	13 p. .00030 mfd.	2.10	1.05
3B3416	17 p. .00035 mfd.	2.30	1.15
3B3418	23 p. .00050 mfd.	2.50	1.23

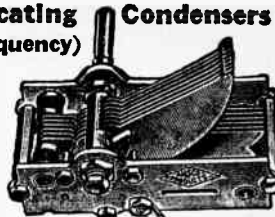
**L. F. Precision Type**

		List	Net
3B3405	8 p. .00017 mfd.	\$1.90	\$0.94
3B3406	13 p. .00030 mfd.	2.10	1.05
3B3407	17 p. .00035 mfd.	2.30	1.15
3B3408	23 p. .00050 mfd.	2.50	1.23

3B3382—Coupling Unit or Adapter for ganging condensers. List, 35c. Net **25c**

# Mosco Allocating Condensers (Straight-Line Frequency)

Grounded rotor, aluminum outer frames, stops studs at zero and full scale positions, flexible pigtail connections and rotor shaft of chromium nickel needle steel makes this a highly efficient and desirable instrument. No 11 a b e d nickeled frame. Single Unit. Shipping wt., 1 lb.



3B3508—No. SLF1213—13 plates, cap., .0003 mfd.	List, \$2.75. Net, <b>\$1.59</b>
3B3509—No. SLF1217—17 plates, cap., .00035 mfd.	List, \$3.00. Net, <b>\$1.75</b>
3B3510—No. SLF1223—23 plates, cap., .0005 mfd.	List, \$3.50. Net, <b>\$2.05</b>

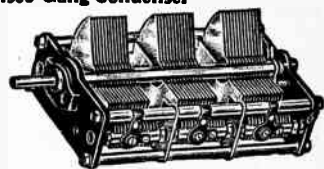
**Double Unit**

3B3511—No. SLF1226—13 plates, cap., .0003 mfd.	List, \$5.50. Net, <b>\$3.24</b>
3B3512—No. SLF1234—17 plates, cap., .00035 mfd.	List, \$6.00. Net, <b>\$3.53</b>
3B3510—No. SLF1246—23 plates, cap., .0005 mfd.	List, \$7.00. Net, <b>\$4.12</b>

Shipping weight, 1½ lbs.

## Mosco Gang Condenser

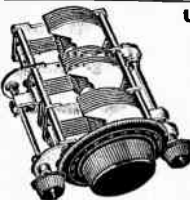
Allocates stations on dial in equal wave length divisions. Rotors on common shaft for single dial control. Insulated rotors. Connected stations. Perfect bearings. Single hole mounting. Electrically shielded. Easily and accurately compensated. Shipping wt., 2 lbs.



	List	Net
3B3450—2-gang .00035	\$6.50	\$3.78
3B3451—2-gang .0005	7.50	4.41
3B3478—3-gang .00035	9.75	5.68
3B3453—3-gang .0005	11.25	6.58

## U. S. L. Compensated Multiple Variable Condenser

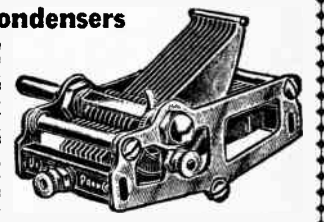
This condenser makes possible the construction of one dial control sets. Used with any good type of coil maximum results will be obtained and reception will equal or surpass the best results obtainable when using three separate condensers. Capacity each unit .00035. Bakelite 3-inch dial. Rigid construction. Radion insulation. Low minimum capacity. .000011—Extends 6¼ inches back



panel, 5 inches wide, 3 inches high when open. Shipping wt., 4 lbs. 3B3500—List price, \$13.50. Net price... **\$8.35**

## De Jur Condensers

Moulded Bakelite insulation, outside electrostatic field suspends stator plates which bear only on one point. Condenser frame grounded to rotor, eliminates all band capacity. End the bar of rotor plates keeps spacing uniform. End plates of brass, finished in highly polished nickel. Direct electrical connection made from rotor to



Small phase angle difference: low minimum capacity. Double and triple gang fitted with compensators. Shipping weight, 1 lb., single; 1½ lbs., double; 2½ lbs., triple.

	List	Net
3B3480—.00014 mfd. Single.....	\$3.00	\$1.63
3B3480—.00025 mfd. Single.....	3.00	1.64
3B3479—.00035 mfd. Single.....	3.25	1.65
3B3471—.0005 mfd. Single.....	3.50	1.69
3B3472—.00035 mfd. Double.....	6.50	3.54
3B3473—.0005 mfd. Double.....	7.00	4.09
3B3474—.00035 mfd. Triple.....	9.75	5.29
3B3475—.0005 mfd. Triple.....	10.50	5.95

## Duplex Low Loss Condenser

A low priced condenser of fine mechanical construction and perfect design. Losses reduced to a minimum. Heavy aluminum plates. Vernier type has single vernier plate controlled by lever. ¼-in. shaft. 3 in. dial readout vernier type. No dial included. Shipping wt., 1 lb.

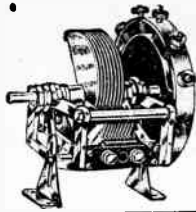
No.	M. Cap.	Type	List	Net
3B3479	.00025	Plain	\$2.00	\$0.89
3B3480	.001	Plain	3.50	1.10
3B3481	.00025	Vernier	3.50	1.10
3B3484	.001	Vernier	4.50	1.78



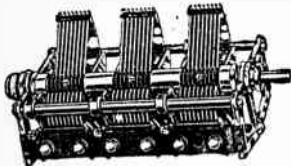
## Camfield Sychrotune Condenser

A new invention making possible perfect synchronization of two or more tuning circuits. Especially adapted to construction of single control super-hets. Will make any set single dial control. Ten points of adjustment over scale and once adjusted it need never be touched again. Complete instructions included. Shipping wt., 2 lbs.

**3B4033**—Type 350. .00035 mf. List, \$14.75.  
**3B4055**—Type 500. .0005 mf. List, \$15.00.  
 Net. . . . . \$9.00

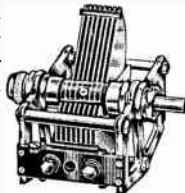


## Camfield Eaquatune Condensers



insuring long life. Designed for ether panel or base-board mounting. Plates finished in bright dipped brass. Other parts nickel plated. Made in single, double and three gang units. For all purposes.

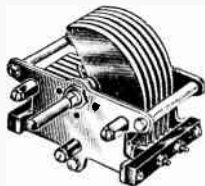
No.	Shgp. wt.	lb. oz.	List	Net
3B4066 151 Single Gang. .00015 mf.	14	5.00	\$2.94	
3B4066 251 Single Gang. .00025 mf.	15	5.50	3.23	
3B4067 351 Single . . . . .00035 mf.	1	5.75		
3B4068 352 Two Gang . . . . .00035 mf.	13	10.50	5.18	
3B4069 353 Three Gang. . . . .00035 mf.	2	15.00	6.37	
3B4070 501 Single. . . . .0005 mf.	1	3	6.00	3.33



These condensers are an outstanding achievement in the radio field. Recommended for many sets in which single control multiple tuning is essential. Equipped with special adjustment for perfect equalization. No necessity for trimmers. Shaft may be shortened or lengthened without disturbing rotor adjustment. Mounted from either end. Variable spring tension provided. Rotor mounted on ball-bearings.

## Cardwell Variable Condensers

Pioneers in precision-made instruments. Accuracy equal to laboratory requirements. Superior mechanical designs will keep them that way.



**TYPE E**  
 Taper plate, clockwise rotation only. Tuning curve midway between straight wave length and frequency. Shgp. wt., 1 1/2 lbs.

	Mfd.	List	Net
3B33400—191E .000075	\$4.00	\$2.65	
3B33401—187E .00015	4.00	2.95	
3B33402—168E .00025	4.25	3.00	
3B33403—169E .00035	4.75	3.00	
3B33443—192E .0005	5.00	3.38	

**TYPE C**  
 Tuning curve gives straight frequency at low end and straight wave length at top.

	Mfd.	List	Net
3B33444—167C .000075	\$4.00	\$2.70	
3B33445—168C .00015	4.00	2.95	
3B33446—170C .00025	4.25	3.00	
3B33447—171C .00035	4.75	3.00	
3B33448—173C .0005	5.00	3.38	

## Cardwell Balancer

A midget condenser of supreme efficiency.

Type	Cap.	List	Net
3B3456—Single acty.	.00025	\$1.25	79c
3B3457—609A	.00035	1.25	81c
3B3458—613A	.00005	1.50	96c



Type	Dual	Capacity	List	Net
3B3459—614A	.00025*	\$2.25	\$1.45	
3B3460—622A	.00004*	2.50	1.62	

\*Each Side

## Signal Condenser

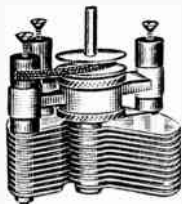
Separates uniformly over the entire 360 degrees of the dial all broadcast wave lengths from 150 to 600 meters. Low minimum capacity. At no point on the dial will stations be crowded. Resistance losses are extremely small. Pigtail connections. Single or three hole mount. Shipping wt., 1 1/2 lbs.

3B3435—00025	List, \$4.00
3B3436—00035	Net. . . . . \$1.95
3B3437—0005	



## Coto-Variable Air Condenser

Built upon a rigid aluminum casting, non-warping and non-cracking. Unique bearing makes operation smooth and easy. Positive electrical connections. Novel construction avoids absorption and resistance losses. Practically straightline characteristics. Mounted in horizontal or vertical position and reversed as to direction. Plates may be removed to make any capacity desired. Shgp. wt., 1 1/2 lbs.



	List	Net
3B3416—.0005 max.	\$4.50	\$1.80
3B3417—.0007 max.	5.00	2.00
3B3418—.001 max.	6.00	2.00

## Compensator

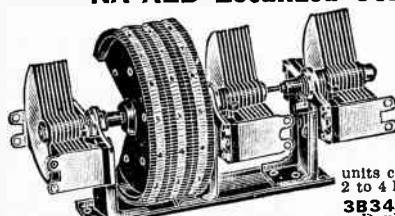


Provides an easy method of rapidly balancing two circuits as capacity is taken from one while being added to the other.

3B2932—List: \$1.75. Net \$1.15

**Chelton Midget and Bakelite Condensers Are Listed on Page 58**

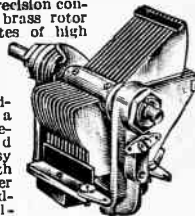
## NA-ALD Localized Control Unit



	List	Net
3B3412—Triple cond.	8.00	\$4.70
3B3413—Quadruple cond.	10.00	5.88
3B3410—Double cond. with tickler control.	15.00	8.81
	10.00	6.00

## Hammarlund Midline Condensers

A scientific precision condenser. Hard brass rotor and stator plates of high conductivity placed in slot-dipped brass posts and soldered, securing electrical effects of a solid piece. Specially shaped plates for easy tuning on both lower and upper wavelengths. Adjustable ball-bearing rotor shaft, grounded through metal end-plates. Soldered clock-spring pig-tail with automatic stop. Losses too poor; can't warp.



Full floating rotor shaft which supports no weight and is instantly adjustable for length. Any number of gangs separated on tandem shaft can be built up from single units. Template, hand-capacity shield and anchoring screw included. All units accurately matched in capacity. Tested on 1,000 volts A. C. Ideal for drum dial. Shgp. wt., 1 1/2 lbs.

	Cap.	Plates	List	Net
3B33332—1	.0005	23	\$5.50	\$3.70
3B33333—2	.00035	17	5.25	3.55
3B33334—3	.000275	13	6.10	3.06
3B33335—3	.00025	11	5.00	3.00
3B33336—1	.0001	5	4.75	2.85
3B33337—2	.00015	7	5.00	2.85
3B33338—3	.0001	1-10*	6.00	3.00

\*Double Spaced.

## TWO GANG

	Shgp. wt.,	1 1/2 lbs.	List	Net
3B33340—11	.00025	5.75	\$4.65	
3B33341—13	.000275	8.25	4.95	
3B33342—17	.00035	8.75	5.25	
3B33343—23	.0005	9.25	5.55	

## THREE GANG

	Shgp. wt.,	2 1/4 lbs.	List	Net
3B33345—11	.00025	\$11.00	\$6.50	
3B33346—13	.000275	12.00	7.20	
3B33347—17	.00035	13.00	7.80	

\*Capacities given are for each unit.

## New Hammarlund Equaizer

A small neutralizing or balancing condenser, having an exceptionally wide capacity range. For equalizing the units of a multiple-tuning condenser. Its small size permits use in limited space. Bakelite base mount, mica dielectric and a heavy phosphor-bronze spring plate. Maximum capacity, 35 mmfd. Minimum capacity, 2 mmfd. 3B3307—Each. . . . . 31c

## Hammarlund, Jr.



Soldered brass plates, cone bearings. Has new locking device for fixing rotor plates in any position. Bakelite knob, 1/2-in. diameter shaft. Single hole panel mount. Shgp. wt., 5 oz.

	M. Cap.	List	Net
3B33335—000016	\$1.50	\$0.90	
3B33336—000032	1.50	.90	
3B33337—000050	1.50	.90	
3B33338—000075	2.00	1.30	
3B33339—00001	2.25	1.35	

3B33319—Table Mounting bracket for above. Each. . . . . 15c

## Superior Low-Loss Tuners

3-Circuit for Distance, Volume and Selectivity

\$1.17



These are the best style tuners for regenerative circuits. The three circuit feature enables you to easily build a set that will step out and get the distant stations and yet cause little interference to surrounding sets as most regenerative circuits do. Consists of an aperiodic aerial inductance and secondary, wound on stator tube within which is a tickler coil. Windings are of red, white and green silk wire on low loss cut-out forms. With these units first class sets can be built at low cost as with them three tubes will equal five tubes in most other circuits. Distant stations can be consistently tuned in with an exceptional volume and quality of tone. Shipping weight, 12 oz.

**3B3615**—Large size, 3 inches diameter; 3 1/4 inches high. Covers 190 to 570 meters with .0005 condensers. Each..... **\$1.17**

**3B3616**—Small size, 2 3/4 inches diameter; 2 3/4 inches high. Covers 190 to 570 meters with .0005 condenser. Each..... **97c**

**3B3617**—Small size. Low wave type. Covers 37 to 150 meters with .0005 condensers. Each..... **\$1.19**

Small sizes are especially suited to portable sets.

### Superior Low-Loss Antenna Coil

Used with above tuners in circuits such as Brown-ing, Drake, etc. Wound with silk covered Litz wire on low-loss genuine bakelite frame. For .0005 condenser only. Shipping weight, 8 oz.

**3B3618**—Large size. 3-in. diam.; 3 1/4 in. high. Each..... **59c**

**3B3619**—Small size, 2 3/4-in. diam.; 2 3/4 in. high. Each..... **59c**



## Basket Weave Coils



**3B3710**—Set of three with con-denser mounts..... **94c**

**3B3711**—Single coil only with-out mount. Each..... **30c**

Real value for the set builder. At our prices a fine five-tube set can be built at a very low cost, using these coils. Results prove them one of the best types of transformer coils in tuned radio frequency circuits for volume, dis-tance and tone quality. Fine silk insula-tion. Primary wound in center or greater efficiency. Bracket permits mounting to practically any condenser. Used with .00035 condenser. Shipping weight, 1 lb.

## Improved Low Loss Coils



**3B3709**—Set of three with **\$1.16** mounts.....

An improved type of basket weave in-ductance. Diameter 2 inches. Height 2 inches. Special fibre mounting disk enables easy mounting on condenser panel or baseboard. Each set of coils is very carefully selected and balanced for use with two or three gang condensers hav-ing units of .00035 to .00038 capacity. Shipping weight, 1 1/2 oz.

## R. E. L. Basket Weave Coils

5 coils covering 10 to 110 meters when used with .0001 mf. con-denser. Flexible leads and clips, and adjustable mounting included. Shpg. wt., 1 1/4 lbs.

**3B3527**—Five coils with mounting. List, **\$3.15** \$4.50. Net.....

## Benjamin Tuned Radio Frequency Transformers

**3B4113**—3-inch diameter. Set of 3 with mounts. List, \$6.00. **\$3.53** Net.....

**3B4114**—2 1/4-inch diameter. Set of 3. List, \$5.75. **\$3.39** Net.....

Self-supporting cylin-droid form. Extremely strong and rigid and will stand hard usage. Advanced scientific design gives minimum distributed capacity and greater tuning range; lower resistance; greatest energy trans-fer. Green silk wire. For .00035 condensers. Shipping wt., 1 lb.

## Benjamin "Lekless" Trans-formers

Closed field pre-venting leakage and feed back. Minimum in-sulation lowers power losses. Ex-tremely low dis-tributed capacity; low resistance and high inductance. Used in any tuned radio frequency circuit. Especially desir-able for single control. Self supporting green silk winding. For use with .00035 mf. condensers. Shipping weight, 1 lb. 5 oz.

**3B4115**—Set of 3 matched coils. List price, \$7.50. **\$4.41** Net.....

## Bruno No. 99 3-Circuit Tuner



Primary and secondary wound on quartzite glass rod. Tickler coil permits regeneration without squeaks. Single hole mounting. Pigtailed rotor leads. 2 1/2 in. high; 2 1/2 in. diam. Shpg. wt., 8 oz.

**3B3621**—200 to 575 meters for .00025 or .00035 condenser. List, \$5.50.

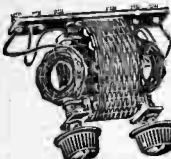
Net..... **\$3.22**

**3B3622**—20 to 110 meters for .0001 condenser. List, \$5.50. **\$3.22** Net.....

**3B3007**—R. F. Transformer. Same construction as tuner. Primary in center of secondary. Very low loss and efficient. **\$1.75** List, \$3.00. Net.....

2 1/2 x 2 1/2 in. Net.....

## Duo-Control 3-Circuit Tuner



Air spaced coils, with green silk in-sulation. Primary and tickler are variable. An especially desirable type of tuner. Permits very close tuning. Tunes out inter-ference. Gets greatest distance. Covers 200 to 600 meters with .0005 condenser.

**3B3018**—List, \$6.00. **\$2.59** Net.....

## Three Circuit Tuner



Self - supporting rotor and stator. Very low loss and very efficient. For use with .00035 mf. condenser. Shipping weight, 8 oz. **3B3703**— **99c**

**99c** List, \$2.50

## Space Wound 3-Circuit Tuner



**3B3700** Net, **\$1.10** ea.....

Space wound machine threaded bakelite form with green silk covered wire. Single hole mounting.

Diameter 3 inches, height 3 1/2 inches. Covers broadcast range 200 to 550 meters with .0005 condenser. Shipping weight, 15 oz.

**3B3699**—Antenna Coil. Operates with above tuner. Shipping weight, 10 oz. Net, each..... **65c**

**180° Variometer and Variocoupler** **3B3701** Variometer—List, \$2.00. **3B3702**—Variocoupler. **\$1.10** Net.....

Properly designed and of good mechanical construction. Green silk windings. Firm con-tacts, 1/4-inch shaft. Suitable for all broadcast wave lengths. Variocoupler pri-mary is tapped for fine tuning. Use with .0005 condenser. Shipping wt., 15 oz.

**3B3701** Variometer—List, \$2.00. **3B3702**—Variocoupler. **\$1.10** Net.....

Properly designed and of good mechanical construction. Green silk windings. Firm con-tacts, 1/4-inch shaft. Suitable for all broadcast wave lengths. Variocoupler pri-mary is tapped for fine tuning. Use with .0005 condenser. Shipping wt., 15 oz.

**3B3701** Variometer—List, \$2.00. **3B3702**—Variocoupler. **\$1.10** Net.....

Properly designed and of good mechanical construction. Green silk windings. Firm con-tacts, 1/4-inch shaft. Suitable for all broadcast wave lengths. Variocoupler pri-mary is tapped for fine tuning. Use with .0005 condenser. Shipping wt., 15 oz.

**3B3701** Variometer—List, \$2.00. **3B3702**—Variocoupler. **\$1.10** Net.....

Properly designed and of good mechanical construction. Green silk windings. Firm con-tacts, 1/4-inch shaft. Suitable for all broadcast wave lengths. Variocoupler pri-mary is tapped for fine tuning. Use with .0005 condenser. Shipping wt., 15 oz.

**3B3701** Variometer—List, \$2.00. **3B3702**—Variocoupler. **\$1.10** Net.....

Properly designed and of good mechanical construction. Green silk windings. Firm con-tacts, 1/4-inch shaft. Suitable for all broadcast wave lengths. Variocoupler pri-mary is tapped for fine tuning. Use with .0005 condenser. Shipping wt., 15 oz.

**3B3701** Variometer—List, \$2.00. **3B3702**—Variocoupler. **\$1.10** Net.....

Properly designed and of good mechanical construction. Green silk windings. Firm con-tacts, 1/4-inch shaft. Suitable for all broadcast wave lengths. Variocoupler pri-mary is tapped for fine tuning. Use with .0005 condenser. Shipping wt., 15 oz.

**3B3701** Variometer—List, \$2.00. **3B3702**—Variocoupler. **\$1.10** Net.....

Properly designed and of good mechanical construction. Green silk windings. Firm con-tacts, 1/4-inch shaft. Suitable for all broadcast wave lengths. Variocoupler pri-mary is tapped for fine tuning. Use with .0005 condenser. Shipping wt., 15 oz.

**3B3701** Variometer—List, \$2.00. **3B3702**—Variocoupler. **\$1.10** Net.....

Properly designed and of good mechanical construction. Green silk windings. Firm con-tacts, 1/4-inch shaft. Suitable for all broadcast wave lengths. Variocoupler pri-mary is tapped for fine tuning. Use with .0005 condenser. Shipping wt., 15 oz.

**3B3701** Variometer—List, \$2.00. **3B3702**—Variocoupler. **\$1.10** Net.....

Properly designed and of good mechanical construction. Green silk windings. Firm con-tacts, 1/4-inch shaft. Suitable for all broadcast wave lengths. Variocoupler pri-mary is tapped for fine tuning. Use with .0005 condenser. Shipping wt., 15 oz.

**3B3701** Variometer—List, \$2.00. **3B3702**—Variocoupler. **\$1.10** Net.....

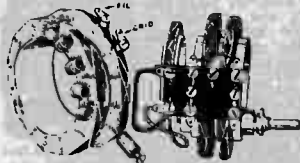
Properly designed and of good mechanical construction. Green silk windings. Firm con-tacts, 1/4-inch shaft. Suitable for all broadcast wave lengths. Variocoupler pri-mary is tapped for fine tuning. Use with .0005 condenser. Shipping wt., 15 oz.

**3B3701** Variometer—List, \$2.00. **3B3702**—Variocoupler. **\$1.10** Net.....

Properly designed and of good mechanical construction. Green silk windings. Firm con-tacts, 1/4-inch shaft. Suitable for all broadcast wave lengths. Variocoupler pri-mary is tapped for fine tuning. Use with .0005 condenser. Shipping wt., 15 oz.



### Sickles Coils for Roberts Reflex



For any Roberts circuit. Range 200 to 370 meters. Used in two, three, or four tube circuits. The R. F. inductive reflex circuit will produce the greatest volume with a given signal strength. 2 tube set will operate loud speaker at distance of two. Use with two 00035 condensers. Shipping wt. 5 oz. **\$5.20**  
**3B5767** List. \$8.00. Net.

### Sickles Coils for Browning Drake

Attractive coil and R. F. unit with fielder. Diamond weave windings. R. F. unit one hole panel mounting. Use with one 00035 and one 00033 condenser. Instructions included. Shipping wt. 5 oz. **\$4.90**  
**3B5768** List. \$7.50. Net.

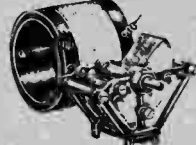
### Coils for Browning Drake



Attractive coil and R. F. unit with space wound enamel wire. Exactly correct for this circuit. Finest workmanship. Use with one 00035 and one 00033 condenser. Mounting brackets included. Shipping wt. 9 oz. **\$3.35**  
**3B4143** List. \$6.50. Net.

### Tuned Radio Frequency Unit

Consist of radio frequency transformer wound on bakelite frame and mounted on the outside of a condenser. Ship. wt. 4 1/2 lbs.



**3B3613**—Each **\$2.85**  
Three matched units. **\$7.65**

### Shielded R. F. Transformer Coils

Consist of solenoid wound coils mounted inside of copper "can" full electrostatic and electromagnetic shielding without any current losses. Units may be mounted in any position desired. Also eliminate interference complex and add increased sensitivity and selectivity to any tuned radio frequency circuit. Binding post connections. Height, 4 inches. Diameter, 2 1/2 inches. Ship wt. 2 1/2 lbs. **\$3.75**  
**3B3601**—Set of three. Retail, \$7.50. Net.

### Space Wound Solenoid Coil



Enamel on threaded bakelite tubing. Matched low loss. Very efficient. Selective. Used with .00035 condensers. May be used in units of three with three-stage, single central condenser. **\$1.10**  
**2B6359**—List \$2.00. Per Set of 3. Net.

### Coil Kit



**3B3620**—List, \$7.50. Net. **\$4.38**

Contains the essential coil parts and resistors for the most improved space wound coil with variable bracket and connecting strap. Three resistors, one at each end of the coil and hook-up sheet. Use complete or at require.

00035 variable condensers (either triple, double or single control) rheostat 20 or 25 ohm, battery switch, 200 ohm 1/2 watt, 200 ohm 6 tube condenser, 200 ohm 6 tube condenser, 2 audio transformer, 2-1 mfd. 50 volt 1/2 watt leak and one lenser, 1 00035 mfd. 50 volt, 10 coupling posts, mounting plate, traps and hook-up wire. Ship. wt. 1 1/2 lbs.

### Space Wound Plug-in Coils



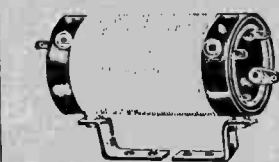
Space wound on threaded bakelite tubing with bakelite base with prongs that fit many I X tube sockets. Enables anyone to construct efficient coils for matching standard. The wiring is made to any I X socket terminal. Connections are to plug in the coils. Tuned with .00035 condensers. Furnished in matched sets of three. **\$1.58**  
**2B6360**—Set of 3. List \$2.75. Net.

### Shielded T. R. F. Transformers



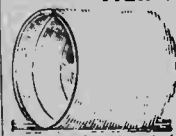
Highly efficient for tuned R. F. circuit. Coil enclosed in heavy copper and beautiful crystal quencher mesh. Illustration shows part of complete set. Case 2 1/2 in. outside diameter, 1 1/2 in. deep. Especially desirable for compact sets. No inter-lace coupling. Tunes 200 to 370 meters with .00035 condenser. Ship. wt. 2 1/2 lbs. **\$3.25**  
**3B3014**—Per set of three. List \$6.50. Net.

### Solenoid R. F. Transformer Coils



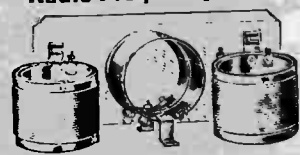
Proven to be the most efficient type of coils. Wound with green silk wire on genuine bakelite, 1 inch diameter, 3 inch long. Each coil designed to match stage in which it is used. Ship. wt. 1 1/2 lbs. **\$2.00**  
**3B3612**—Set of three. Retail price \$4.00. Net.

### Spaced-Air-Wound Radio Transformer



Perhaps the most efficient type of transformer made. Very high amplification with minimum losses. Sharp tuning, pure tone quality. Firm and strong. Easily mounted. Tunes 200 to 370 meters with .00035 condensers. Ship. wt. 2 lbs. **\$2.25**  
**3B3015**—Per set of three. List \$4.50. Net.

### Radio Frequency Coils



Solenoid form transformer coils for use in tuned radio frequency circuits. Provided with neutralizing taps. Green silk wire wound on genuine bakelite tubing. **\$2.35**  
**3B3614**—Set of three. Net price.

### Bodine Twin-8 R. F. Transformer



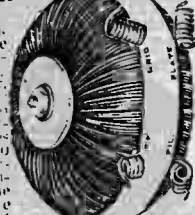
Closed-field coil for improving all R. F. circuits. Combines very limited field with tremendously high amplification. For 00035 Cond. Ship. wt. 1 lb. **\$3.69**  
**3B3600**—Set of 3 matched transformers. List \$6.00. Net.  
**3B3623**—Type T-145. For use with Phasatrons. List, each \$2.00. Net. **\$1.18**  
**3B3624**—Type T-146. Antenna type. List, each \$2.00. Net. **\$1.18**

### R. F. Choke Coils



Designed for use in radio circuits to reduce the radio frequency current. Prevents distortion in the amplifier. Very desirable in plate circuits of intermediate and high impedance stages. Ship. wt. 9 oz. **42c**  
**2B3016**—Type 450 for 200-300 meters. List, 70c. Net.  
**2B3017**—Type 840 for 600 meters up to 1000 meters. List, 80c. Net. **48c**

### Little Giant Doughnut R. F. Transformer



Semi-bank windings. The "Little Giant" doughnut R. F. coil, only 2 1/2 inches diameter, 2 1/2 inches high. Has no base or supporting frame. Tunes over range of 200 to 375 meters with .00035 condenser. Volume in high wave lengths is as great as on low waves. Antenna coil tapped for low, medium and short antenna. Bracket for mounting. Ship. wt. 1 lb. **\$3.48**  
**3B3611**—Set of Three. List \$5.25. Net.

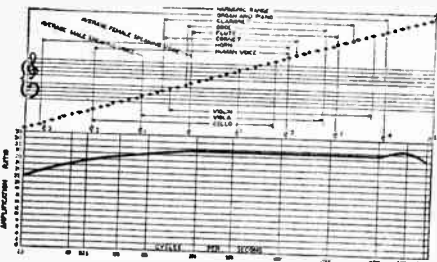
# FERRANTI

## Audio Frequency Transformer Type AF-3



**\$7.06**

Tone quality depends almost entirely on the audio frequency end of a receiving set. Ferranti transformers are recommended whenever it is desired to obtain audio frequency amplification of the highest quality in radio sets equipped with a power tube in the last stage. They may be used with equal success in any set equipped with any type tube where resulting volume is not sufficient to overload the last tube. Many dissatisfied set owners will purchase more efficient audio transformers in their sets. Ferranti will do for the original transformer and substitute them for the job as the finest engineering skill is in each Ferranti Transformer. Known for tonal qualities throughout the radio field. Ratio, 3 1/2 to 1. Dimensions, 2 1/4 x 3 x 3/4 inches. Shipping wt., 2 1/2 lbs.  
**3B1344—Type AF-3, List, \$12.00, NET.....**



The curve at the left presents a striking portrait of the characteristics of the Ferranti Transformer. It was taken from data obtained under actual working conditions and shows just how the amplification varies with the frequency. The curve is flat for practically all of the most commonly used frequencies. This means that all tones are amplified the same amount giving reproduction that is true to the musical scale.

unique in its full well-rounded tones. The projection of the curve shows the corresponding musical note for any frequency. For quality and timbre of tone they have no equal.

## Individual Truphonic Couplers

For those who plan to construct their own sets, and who want to build into them the finest possible type of audio frequency amplification separate Truphonic couplers are provided.



Individual units in iron clad cases. Brackets included for mounting in convenient position. Flexible leads for easy connection. 2 1/4 in. square, 1 1/2 in. thick.  
**3B1345—301R for first stage.**  
**3B1346—301 for 2nd or 3rd stage.**  
**3B1347—300 Output—Protect speaker.**

List, each, \$5.00, NET, EACH **\$2.94**  
 See page 37 for Truphonic Amplifier.

## Acme Audio Amplifier

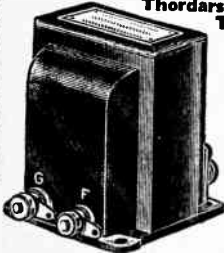
A-2 is unquestionably the most audio transformer for the money. MA-2 has high primary impedance and produces great amplification without distortion.



Z-3 unit consists of a coupling resistance and condenser with impedance a n c e leak. Binding posts are provided with the same marking as transformers. Can be used to great quality advantage by replacing one stage of audio in a two-stage amplifier. Shipping wt., 1 1/2 lbs.

- 3B1338—Z-2 A. F. Impedance 200 henries.** List, \$4.50, NET, EACH **\$2.65**
- 3B1339—Z-3 A. F. R. Resis. Impedance Stage.** List, \$5.00, NET, EACH **\$2.94**
- 3B1340—MA-2 A. F. Trans. 5-1 ratio.** List, \$6.00, NET, EACH **\$3.53**
- 3B1341—A-2 A. F. Trans.** List, \$3.00, NET, EACH **\$1.77**

## Thordarson Type 200 Transformer



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. Designed for use with cone type speakers.

- 2B1216—List price, \$8.00, NET** **\$4.72**

## Thordarson Autoformer

An all frequency amplifier. Amplifies lowest notes as perfectly as high ones. Gives great clarity on all signals and better volume control. Improves reception of weak programs. Built on same principle as line amplifier at newest high powered broadcasting stations.



- 2B1217—Thordarson Autoformer, EACH** **\$2.95**

## Interstage Power Amplifying Transformer



Designed to couple the input and output transformers in a power amplifier circuit. When used in connection with the Thordarson input and output power amplifying transformers, this type completes the equivalent of two power amplification stages.

- 2B1219—List, Price, \$8.00, NET** **\$4.70**



The Thordarson transformer is now being used as standard equipment in more high grade sets than any other make. It is a very efficient, clear toned transformer and gives excellent volume.

- 2B1209—2 to 1, List, \$5.00, NET** **\$2.94**
- 2B1210—3 1/2 to 1, List, \$4.00, NET** **\$2.35**
- 2B1211—6 to 1, List, \$4.50, NET** **\$2.65**
- 2B6477—Thordarson Power Push-Pull Transformers, one input and output choke, List, \$16.00, NET** **\$9.60**

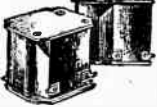


Furnished with leads coming out the base for sets mounted in sub-panel. Provides neater assembly, shorter leads and greater efficiency.

- 2B1213—6 to 1 ratio, List, \$4.50, NET** **\$2.35**
- 2B1214—3 1/2 to 1 ratio, List, \$4.00, NET** **\$2.65**
- 2B1215—2 to 1 ratio, List, \$5.00, NET** **\$2.94**

## Amertran DeLuxe Transformer

Long recognized for their superiority in the radio field. Many laboratories employ these transformers in making tests. Long identity with the radio field has proven the quality of the product. Its faithful amplification when combined with the best of reception conditions will reproduce natural volume over the entire range. Made in two types. Shipping wt., 2 1/4 lbs.



- 3B1220—1st stage, List, \$10.00, Net** **\$6.85**
- 3B1221—2nd stage, List, \$10.00, Net** **\$6.85**

## Rauland-Lyric

**3B1318—List, \$9.00, NET** **\$5.29**  
 Shipping wt., 3 lbs.



Similar in appearance to the Rauland-Lyric, except slightly smaller in size. An impedance coupling device containing in one housing the three necessary units—inductance, resistance and capacity in correctly balanced relation. Shpg. wt., 2 lbs.

- 3B1319—For first and intermediate stages, Postpaid, EACH** **\$3.54**
- 3B1320—For last audio stage, Postpaid, EACH** **\$3.54**

## Push Pull Transformers

- 3B1332—R30 Input, List, each, \$5.00, NET** **\$2.94**
- 3B1333—R31 Output, List, each, \$5.00, NET** **\$2.94**

## All-American A. F. Transformer

- 3B1329—3 to 1, List** **\$4.50, NET... \$2.65**
- 3B1330—5 to 1, List, \$4.50, NET... \$2.65**
- 3B1331—10 to 1, List, \$4.50, NET... \$2.65**

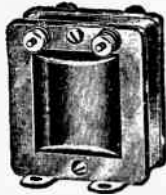


List, \$4.50, NET **\$2.65**



**We Pay Freight on Orders for \$50 and More as Per Offer on Page 3**

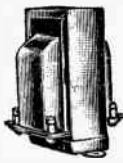
**National Transformer**



Tone quality is a requirement of vital importance in audio frequency transformers. National has tone quality. A pronounced characteristic is the successful amplification of a bass toned human voice and of low pitched musical instruments. Unusual ability to operate equally well in the third stage as in the first two stages of amplification. Completely shielded. Attractive nicked case.

3B1305—3½ to 1.	Value, \$3.00.
3B1306—6 to 1.	Net, <b>\$0.97</b>

**Pacnet Super Audioformer**



Designed for finer musical values in broadcast reception. Built to sturdily handle this work. The ratio of 3 to 1 is capable of handling energy amplification of 500—1 per cent so that higher frequencies are not distorted. Especially designed for power amplification. Suitable for use in all sets of the popular hook-ups now in use. Its attractive arched shield protects it from interference offered by other elements in the air. Shipping wt., 3 lbs.

3B1310—Output Superformer.	
3B1311—Input Superformer.	
List price, \$7.50.	<b>\$4.41</b>

**Jefferson Transformers**



Carefully designed of the best materials to incorporate the newest principles in transformer construction. Pronounced by leading engineers to be one of the finest lines of transformers made. Jefferson transformers are adaptable to all circuits and all standard makes of tubes.

3B1307—Jefferson Concertone. Shipping wt., 3½ lbs.	
List price, \$6.00.	<b>\$3.53</b>
3B1308—Jefferson Star. Ratio 3 to 1. Shipping wt., 1 lb.	
List price, \$2.75.	<b>\$1.63</b>
3B1309—Jefferson Star. Ratio 6 to 1. Shipping wt., 1 lb.	
List price, \$3.00.	<b>\$1.77</b>

**Variable Audio Transformer**

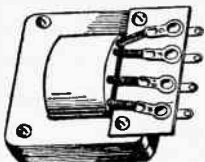


Really matches the characteristics of tube. Results of years of experimenting by radio engineers, which cuts out squealing and howling in any radio receiver. Merely turn knob until reception is clearest and sharpest—the result is perfect co-ordination between tube and transformer. The entire transformer is magnetically and statically shielded, thus permitting the mounting of the transformer at any angle desired without howling and squealing due to magnetic and static coupling of successive stages.

3B1231—List, \$10.50.	<b>\$6.30</b>
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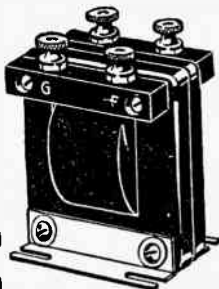
**Marvelo Transformers**

A decidedly superior type of audio frequency transformer. Exceptional in pure tone reproduction and volume. Laboratory tests show the wonderful response to frequency variations over the entire musical scale. Have high impedance to match UV 201-A type, UV 199 or C 299, WD or C 11 and 12 and other type tubes having similar characteristics. The bakelite terminal plate prevents leakage and losses. No electro-magnetic or electro static coupling.



**Completely Shielded**

3B1200—2 to 1.	List, \$4.50.	<b>\$2.10</b>
3B1201—3½ to 1.	List, \$3.50.	<b>\$1.60</b>



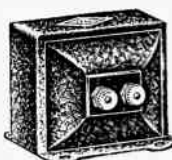
**Manufacturer's Model for Sub-panel or Sub-base Mounting**

3B1206—2 to 1 ratio.	List, \$4.00.	<b>\$1.45</b>
3B1207—3½ to 1 ratio.	List, \$3.00.	<b>\$1.25</b>

**BARAWIK Special Units**  
Guaranteed Finest Quality

**Our Special Units**

The type RR Step-Up Transformer for C tubes has a primary voltage of 110 and has a secondary voltage of 550 with a tap in the center giving 275 volts on each side. Will deliver 50 mills without heating.



3B1223—List, \$5.00.	<b>\$2.70</b>
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Our 85 millhenry radio frequency choke has full rated inductance and because of our special type of coil has a minimum distributed capacity. It will give uniform results on the entire band of broadcast range of frequency. The resistance is 215 ohms.

3B1226—List, \$2.00.	<b>95c</b>
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The 1 to 1 output filter transformer is designed for protection of the loud speaker where high plate voltage is used. It is wound on a 1 to 1 ratio and has sufficiently high impedance to take care of the high voltage and current when the power tubes are used. The average loud speaker coil will not stand the high voltage and current delivered by the larger sets where power tubes are used. The output transformer enables the operator to take advantage of the maximum voltage of the set without in any way burning the coil of the loud speaker. The transformers are equipped with cord and tip so that they can be readily attached to the plug of the set and in tips of the loud speaker cord may in turn be attached to the secondary binding posts of the transformer.

3B1228—List, \$5.00.	<b>\$2.25</b>
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**Hedghog A. F. Transformer**

Smallest audio frequency transformers in size. Suitable for portable and other sets where space is lined. Very efficient. High amplification. Shpg. wt., 1 lb.



	List	Net
3B1302—3 to 1.....	\$3.50	\$1.98
3B1303—5 to 1.....	3.50	2.99
3B1304—10 to 1.....	4.50	2.58

See Pages 58, 65, 67, 68, 70, 71, 72, 73, 74, 92 for other A. F. Transformers.

**Karas Harmonik Audio Transformers**

Suitable for regenerative circuits, radio frequency sets, superhets and reflex circuits. High amplification without distortion. All stage ratio. Shipping wt., 1 lb. 12 oz.



3B1222—Karas Harmonik.	List, \$5.00.	Net..... <b>\$2.94</b>
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**Muter Tuned Double Impedance Units**

SPECIFICATIONS — Hiler coils with Muter condensers assembled under Muter standard of precision, giving the finest tuned audio frequency unit in present day amplifiers. Doubly sealed in highly enameled metal case against atmospheric conditions. Size 4 in. high, 3¼ in. long, 2½ in. wide. Packed in individual cartons with complete diagrams for assembly. Weight, 1½ lbs. each.

3B1348—First Stage.	<b>\$3.53</b>
3B1349—Second Stage.	
3B1350—Third Stage.	
List, \$6.00. Net.....	



# TOBE FIXED CONDENSERS

## Tobe Filter and By-Pass Condenser

Working voltage up to 300 volts D. C. Accurate ratings. Perfectly and rigidly constructed, allowing little variation in rated capacity. Case of matt-finished aluminum very compact and neat in appearance. Shpg. wt., 12 oz.



No.	Cap. Mf.	List	Net
3B429	.1	\$0.70	\$0.42
3B430	.25	.75	.45
3B431	1.	.90	.54
3B432	1.	1.25	.74
3B433	2.	1.75	1.05
3B435	4.	3.75	2.05

## Tobe 760 "B" Block

For use with Raytheon or Q. R. S. 85 mil. and similar tubes where plate supply currents do not exceed 300 volts D. C. Contains one 8 mfd., two 2 mfd. and two 1.0 mfd. Easy connecting terminals at bottom of silver metal case. Shpg. wt., each 3 1/2 lbs.

3B465	-List, \$11.00.	Net, \$6.47
3B466	-BH Block-Contains two 4 and one 6 mfd., 400 v. cond. For B. H. tube.	Net, \$6.48
3B471	-Tobe No. 210. Capacity, 2-2-2-0-1-4.	Net, \$7.65
3B472	-Tobe No. 171. Capacity, 3-2-2-1-1 mfd.	Net, \$7.08

## For Raytheon A-B-C

Power supply using 350 MU tube. Shpg. wt., 3 1/2 lbs.

3B497	-No. 14	Net, \$6.00
3B498	-No. 2; 8-1-1-1 mfd.	Net, \$6.30
3B499	-For Q. R. S. Power Supply using 400 M. tube.	Net, \$8.40

## Tobe 600 Line

Operate continuously on 1,000 v. D. C. Stand high voltage of Amertran, Thordarson and other power packs. Silvered containers. Terminals arranged to permit compact bank wiring. Two larger sizes are 5 inches high, 5 1/2 inches wide, 1 1/2 and 3 inches deep. Shpg. wt., 1 1/2 to 2 lbs.

No.	Cap. mfd.	List	Net
3B441	0.5	\$2.00	\$1.20
3B442	1.0	2.50	1.50
3B443	2.0	3.50	2.10
3B444	4.0	6.00	3.60

## Tobe 400 Line

Designed for continuous operation on 400 volts D. C. Suitable for "A", "B" and "C" eliminators using Raytheon, Q. R. S. 85 mil. or 216 B Tubes, Short Path type. Very compact. Strong lugs for connections. Attractive silver finished case. Shpg. wt., 1 1/2 lbs.

No.	Cap. mfd.	List	Net
3B437	1	\$2.00	\$1.18
3B438	2	2.75	1.62
3B439	4	4.50	2.65

## Tobe Buffer

### Condenser Unit

Contains two 0.1 high test condensers for eliminator transformer secondary. For use with above unit. Shpg. wt., 12 oz.

3B467	-List, \$2.00.	Net, \$1.20
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## Tinytobe Condensers

The smallest condensers made. So light that no other support than the bus wire to where they are attached is required. Case is 3/4 in. wide, 1 1/4 in. high, 1/4 in. thick in .0001 size. For constant operating voltage not over 500 volts D. C. Shpg. wt., 2 oz.



3B451	.0001	35c	21c
3B452	.00025	35c	22c
3B453	.0005	35c	23c
3B454	.001	40c	24c
3B455	.002	40c	25c
3B456	.003	40c	26c
3B457	.004	40c	26c
3B458	.005	45c	27c
3B459	.006	45c	28c
3B460	.01	55c	33c
3B461	.02	60c	36c

## Tobe Interference Filter



Motors in the home such as are used on washing machines, oil burners, ice machines, sewing machines, etc., cause unpleasant interference with radio reception. This device makes possible the elimination of all such interference. Easily installed and a sure remedy. Simple instructions supplied. Here is a big sales possibility. Shpg. wt., 4 1/2 lbs.

3B469	-List, \$15.00.	Net, \$8.82
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## Polymet Hi-Volt Condensers

For by-pass and filter circuits. Non-inductive Type. Long life. Free from leakage. Made with finest linen paper and higher grade foil. Vacuum impregnated with most stable insulating compounds. Withstand voltage specified with wide margin of safety. Accuracy guaranteed within 5%. Shpg. wt., 3 lbs.



Type A. 300 volts D. C.			
No.	Cap.	List	Net
3B588	.1	\$0.60	\$0.34
3B589	.25	.70	.40
3B590	.5	1.60	.85
3B591	1.	1.60	.80
3B592	2.	1.50	.90
3B593	4.	3.50	1.95

Type C. 1,000 volts D. C.			
No.	Cap.	List	Net
3B594	.25	\$1.00	\$0.65
3B596	.5	2.00	1.20
3B597	1.	2.50	1.50
3B598	2.	4.00	2.40
3B599	4.	7.00	3.95

## Polymet Mica Condensers

Guaranteed within 5 per cent of accuracy tested to withstand 800 volts. Shpg. wt., 2 oz.



3B546	-00015 with grid leak clips.	13c
3B547	-00025 with grid leak clips.	17c
3B548	-00025 with grid leak clips.	17c
3B549	-0005.	15c
3B551	-0005 with grid leak clips.	18c
3B552	-001.	18c
3B553	-002.	18c
3B554	-0025.	19c
3B555	-005.	25c
3B556	-006.	29c
3B557	-01.	36c

## Dubilier Condenser 640G

With in 5% of rated capacity. Aluminum case makes it impervious to moisture. Provision is made for either machine screw or solder connection. Flash tested at 1,500 volts D. C. Shpg. wt., 2 oz.



No.	Cap.	List	Net
3B412	.00025	\$0.40	\$0.25
3B414	.0005	.40	.25
3B415	.001	.45	.28
3B416	.002	.45	.28
3B417	.0025	.45	.29
3B418	.005	.65	.41
3B419	.006	.80	.50
3B420	.0075	.80	.50
3B421	.01	1.00	.62
3B422	.015	1.10	.69
3B423	.02	1.20	.72

## Dubilier Micadon Type 601

Best grade India sheet mica insulation and metallic foil placed between pieces of genuine bakelite and sealed under pressure.



Shipping weight, 2 oz.			
No.	Capacity List	Net	
3B507	.00005	\$0.30	\$0.18
3B508	.0001	.30	.19
3B509	.00015	.30	.19
3B510	.00025	.30	.20
3B511	.0005	.30	.20
3B512	.001	.35	.21
3B513	.002	.35	.22
3B514	.0025	.35	.23
3B515	.003	.35	.23
3B516	.004	.50	.31
3B517	.005	.50	.32
3B518	.006	.50	.32

## Dubilier Condensers Type 901-2-3

While designed particularly for filter circuits they can be used wherever a condenser of capacity and voltage test given is required. The rated capacity is accurate within 5%. Handy soldering lug terminals.

Inals. Shpg. wt., 12 oz. to 3 lb.	No.	Cap. Mf.	List	Net
3B400	160	\$2.00	\$1.18	
3B401	2	160	2.50	1.50
3B402	4	160	3.50	2.10
3B403	8	160	5.00	3.00
3B404	1	400	2.50	1.47
3B405	2	400	3.50	2.10
3B406	4	400	5.00	3.30
3B407	6	400	7.50	4.50
3B408	1	600	3.00	1.77
3B409	2	600	5.50	3.25
3B410	4	600	9.50	5.65
3B411	6	600	11.50	6.78

## Dubilier Micadon 640G

With mounting for tubular grid leak. No grid leak included.

3B424	-00025.	List, 45c.	Net, 29c
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## Dubilier Condenser Type-907

Designed to serve as a By-Pass. Requires only small space. Soldering lugs allow convenient wiring. Mounting brackets. Shpg. wt., 7 oz.

No.	Cap. Mf.	List	Net
3B502	0.1	\$0.80	\$0.47
3B503	0.25	.90	.54
3B504	0.5	1.00	.60
3B505	1.0	1.50	.90
3B506	2.0	2.00	1.18

## Dubilier Moulded Micadon

Moulded bakelite case, compact size, highly efficient. Accuracy, moisture proof. Shpg. wt., 2 oz.

No.	Cap.	List	Net
3B462	.0001	\$0.45	\$0.26
3B463	.00025	.45	.26
3B464	.0005	.45	.26
3B465	.001	.50	.30
3B473	.002	.50	.31
3B474	.0025	.60	.36
3B479	.006	.60	.36

## Polymet Moulded Condenser

Composed of alternate layers of finest mica and care-fully inspected foil, individually tested to insure accuracy and finally impregnated and compressed by a special process.

This perfect Condenser section is then moulded in highest quality bakelite. Shpg. wt., 2 oz.

No.	Cap.	List	Net
3B569	.00005	\$0.35	\$0.17
3B570	.0001	.35	.18
3B571	.00025	.35	.19
3B572	.0005	.35	.21
3B573	.001	.40	.23
3B574	.002	.40	.24
3B576	.0025	.40	.25
3B577	.005	.60	.36
3B578	.006	.76	.39
3B579	.01	.90	.50
3B568	.02	1.50	.79

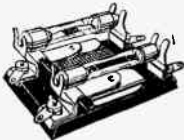
With Grid Leak Clips

3B677	.00015	\$0.45	\$0.29
3B678	.00025	.45	.30
3B679	.0005	.45	.31

We Pay Freight as Per Offer on Page 3



## Polymet Three Stage Resistance Amplifier



All parts of this kit are of finest quality. Resistor bases are of bakelite. Resistor caps are bakelite. Resistor caps and condensers are well made and accurate. The kit includes the following: 3 resistor couplers, 1 condenser mounting, 3 .006 condensers, 3 1 meg. resistors, 1 .002 condenser, 1 grid leak, 1 meg., 1 grid leak 1/2 meg., 1 grid leak 1/4 meg. Set of instructions and diagrams. Shpg. wt., 1 lb.

**3B3023**—List, \$4.00. Net...\$2.28  
**3B3025**—Single coupler without resistances but with .006 condenser.  
 List, \$1.50. Net...\$0.69c

## Polymet Wire Wound Resistances



Nichrome resistance wire wound on a refractory tube and coated with a baked-on porcelain enamel which protects wire from moisture, oxidation and mechanical injury.

10-	20-
Watt	Watt
<b>3B3083</b> \$0.45	<b>3B3190</b> \$0.75
<b>3B3084</b> .45	<b>3B3191</b> .75
<b>3B3085</b> .45	<b>3B3192</b> .75
<b>3B3086</b> .45	<b>3B3193</b> .75
<b>3B3087</b> .60	<b>3B3194</b> .90
<b>3B3088</b> .60	<b>3B3195</b> .90
<b>3B3089</b> .60	<b>3B3196</b> .90
<b>3B3090</b> .60	<b>3B3197</b> .90
<b>3B3091</b> .75	<b>3B3198</b> .90
<b>3B3092</b> .75	<b>3B3199</b> 1.05

## Electrad Truvalt Wire Resistances



Copper-nickel alloy resistance wire closely wound on an asbestos core having an enameled copper core. This whole assembly is wound on an Isolantite tube. Constant value, maximum heat dissipation. 25 Watt—2 Inches Long

Ohms	List	Net
<b>3B3061</b> —500	\$0.85	\$0.51
<b>3B3062</b> —1,000	.85	.51
<b>3B3063</b> —1,500	.85	.51
<b>3B3064</b> —2,000	.85	.51
<b>3B3065</b> —2,500	.85	.51
<b>3B3066</b> —3,000	.85	.51
<b>3B3067</b> —7,500	.85	.51
<b>3B3068</b> —10,000	1.00	.60
<b>3B3069</b> —25,000	1.15	.69
<b>3B3170</b> —50,000	1.40	.81

Ohms	List	Net
<b>3B3171</b> —1,000	\$1.35	\$0.81
<b>3B3172</b> —3,000	1.35	.81
<b>3B3173</b> —5,000	1.35	.81
<b>3B3174</b> —10,000	1.65	.99
<b>3B3175</b> —15,000	1.65	.99
<b>3B3176</b> —25,000	1.85	1.11

## Ward Leonard Resistors



The standard of quality for many years. Special resistance wire wound on porcelain tube coated with baked-on enamel. Rated at 44 watts. Length, 4 inches, 1/16 inch diameter. Shpg. wt., 10 oz.

Ohms	List	Net
<b>3B3081</b> —1,000	\$1.55	\$0.67
<b>3B3082</b> —2,000	1.00	.70
<b>3B3083</b> —2,500	1.00	.70
<b>3B3084</b> —3,000	1.00	.70
<b>3B3085</b> —3,500	1.25	.88
<b>3B3086</b> —4,000	1.50	1.15

## Vitrohm Resistance Kit

Eight separate resistors: 1-750; 3-1500; 1-3000; 1-5000; 2-5000. Total, 21,750 ohms. Many combinations can be made. Each unit size 2x1/16 inches. Rated 20 watts.

**3B3187**—List, \$8.75. Net...\$6.13

## Bradleyleak

Resistance can be varied from 1/4 to 10 megohms. Mounts on panel. Shpg. wt., 6 oz.



**3B3121**—Without condenser. List, \$1.85

Net...\$1.20

**3B3122**—With .00025 condenser. List, \$2.20. Net...\$1.44

## Eagle Variable Grid Leak



**3B3110**—

List price, \$1.00

Net...\$0.74c

A micrometer adjustable grid leak with a range from 0 to 50 megohms. Once set the instrument remains constant until re-adjusted. Shpg. wt., 2 oz.

## Lynch Metallized Fixed Resistors



Metals recognized as the most reliable and constant electrical conductor. Lynch resistors have a concentrated metallized deposit on a glass core sealed within a glass tube. This construction gives a conductive non-arc-ing resistance absolutely noiseless and permanently accurate. Guaranteed not to develop noises nor open circuit. Shpg. wt., 2 oz.

**3B3143**—5 Meg. List, \$0.60. Net, \$0.29  
**3B3144**—3 .50 .30  
**3B3145**—2 .50 .31  
**3B3146**—1 .50 .30  
**3B3147**—1/2 .50 .30  
**3B3148**—1/4 .25 .60  
**3B3201**—1 .05 .75 .45  
**3B3202**—1 .025 .75 .45  
**3B3203**—1 .005 1.00 .60  
**3B3204**—1 .002 1.00 .60

## Allan Bradley Fixed Resistor



A fixed resistor, accurately calibrated, for resistance coupled amplifiers, "B" eliminators, etc. Terminal clips included. Silver-plated metal parts. Shpg. wt., 2 oz.

**3B3051**—10 Meg. List, \$0.60. Net, \$0.39  
**3B3052**—7.5 .60 .39  
**3B3053**—5 .60 .39  
**3B3054**—4 .60 .39  
**3B3055**—3 .60 .39  
**3B3056**—2.5 .60 .39  
**3B3057**—2 .60 .39  
**3B3058**—1 .60 .39  
**3B3059**—.75 .60 .39  
**3B3060**—.5 .60 .39  
**3B3061**—.25 .75 .49  
**3B3062**—.05 .75 .49  
**3B3063**—.01 1.00 .60  
**3B3064**—.005 1.00 .60  
**3B3065**—.001 1.00 .60  
**3B3066**—.0005 1.00 .60

## Polymet Grid Leaks



Tubular style. Resistance unit is metal, therefore permanent. Guaranteed within 5% of ratings. Shpg. wt., 2 oz.

**3B3070**—1/4 meg. **3B3074**—3 meg.  
**3B3071**—1/2 meg. **3B3075**—5 meg.  
**3B3072**—3/4 meg. **3B3076**—7 meg.  
**3B3073**—2 meg. **3B3077**—10 meg.  
 Single lots, 13c.

## Polymet Resistors

For resistance coupled amplification. Very accurate. Shpg. wt., 2 oz.

Meg.	Price	Net
<b>3B3078</b> —.005	75c	38c
<b>3B3079</b> —.025	75c	38c
<b>3B3080</b> —.05	50c	25c
<b>3B3081</b> —1	50c	25c

## Durham Metallized Resistors



Has new type resistor,

consisting of a film of metal supported on a glass rod and sealed within a glass tube. No open circuits. No loose contacts. Shpg. wt., 2 oz.

Resistance	List	Net
<b>3B3037</b> —1	\$0.50	\$0.30
<b>3B3038</b> —2	.50	.30
<b>3B3039</b> —3	.50	.30
<b>3B3040</b> —4	.50	.30
<b>3B3041</b> —5	.50	.30
<b>3B3042</b> —6	.50	.30
<b>3B3043</b> —7.5	.50	.30
<b>3B3044</b> —10	.50	.30
<b>3B3045</b> —25	.50	.30
<b>3B3046</b> —2	.75	.45
<b>3B3047</b> —1	.75	.45
<b>3B3048</b> —.05	.75	.45
<b>3B3049</b> —.025	.75	.45

## Durham Powerohms

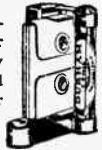
A power resistor, just perfected and widely used by "B" eliminator manufacturers. Made of special heat dissipating material. Shipping weight, 12 oz.

Resistance	List	Net
<b>3B3342</b> —2.5 Watt Type (1 1/4 in. long)		
<b>3B3343</b> —10,000 ohm		
<b>3B3344</b> —12,500 ohm	List, each, \$1.25	
<b>3B3345</b> —25,000 ohm		
<b>3B3346</b> —50,000 ohm	Net...\$7.5c	
<b>3B3347</b> —100,000 ohm		

Resistance	List	Net
<b>3B3348</b> —5 Watt Type (3 in. long)		
<b>3B3349</b> —10,000 ohm		
<b>3B3350</b> —12,500 ohm	List, each, \$1.50	
<b>3B3351</b> —25,000 ohm		
<b>3B3352</b> —50,000 ohm	Net...\$9.0c	
<b>3B3353</b> —100,000 ohm		

## Durham Uprite Mounting

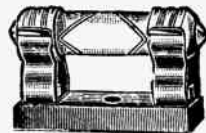
Made of molded insulating material. Mounts either on baseboard or panel. May be used in resistance coupled amplifiers. No condenser or resistor supplied.



**3B6352**—Single mount. List, 50c. Net...\$0.30c

**3B6353**—Single, with Condenser Mounting. List, 66c. Net...\$39c

## Amsco Metaloid Grid Gates and Resistors



Guaranteed accurate and to remain so. Noiseless. Resistor is metallic enclosed in sealed glass tube. Fits standard mounting. Shpg. wt., 2 oz.

Resistance	List	Net
<b>3B1728</b> —0.0025 Megohms	\$1.00	\$0.59c
<b>3B1729</b> —0.005	1.00	59c
<b>3B1730</b> —0.025	.75	44c
<b>3B1731</b> —0.05	.75	44c
<b>3B1732</b> —0.1	.75	44c
<b>3B1733</b> —0.25	.50	29c
<b>3B1734</b> —0.5	.50	29c
<b>3B1735</b> —1	.50	29c
<b>3B1736</b> —2	.50	29c
<b>3B1737</b> —3	.50	29c
<b>3B1738</b> —5	.50	29c
<b>3B1739</b> —10	.50	29c

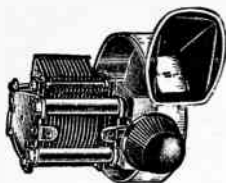
## De Jur Wired Resistance Amplifier



A completely built resistance amplifier at a remarkably low price. Insures perfect tone quality. All of the advantages of the new cone speakers are obtained. This assembled molded bakelite 3-stage amplifier includes all resistances and condensers. Shpg. wt., 2 lbs. **3B946**—Retail price \$8.00. Your price, special...\$4.59

# The Latest, Most Popular Drum Dials

## Silver Marshall



New 805 vernier drum dial furnished with attractive brass panel bezel or window. Simple to mount. Suitable for any type standard shaft condenser. Universal. Controlled by panel knob. May be illuminated. Furnished with lamp bracket. Attractive in appearance and very efficient.

**3B4802**—List, \$3.00. **\$1.76**  
Net.....

## The New REMLER Beautiful—Efficient



Unquestionably the finest dial on the market. Smoothest running dial you have seen. Spiral gear drive quiet in operation. No back lash, vernier tuning to a hair's breadth. 15 inch dial space divided into 200 divisions. Embossed dial indicator. Calibration strips on dial for logging. 6-volt lamp and socket for illumination. Easily mounted. Will drive any standard condenser, single or in pairs. Template furnished. Shipping weight, 2 lbs.

**3B4166**—Condenser Mounts on Left Side.  
**3B4167**—Condenser Mounts on Right Side.  
List, each, \$4.50. **\$2.65**  
Net, each.....

Other Dials Appear on Page

## Hammarlund



New drum dial specified for the latest HI-Q kit and many new circuits. Vernier tuning. Simple control. Beautiful design. Gives factory built appearance to any kit. Nationally popular. Furnished with attractive finely finished escutcheon plate.

**3B1444**—List, \$6.00. **\$3.53**  
Net.....

## Sangamo Mica Condensers



Impervious to moisture. Mica Condenser smooth, reddish brown bakelite, enclosed for protection. They are accurate and stay accurate. Small size.

1 1/4 x 1 1/4 x 1/2-inch. Shpg. wt., 3 oz.

	List	Net
<b>3B558</b> .00004	40c	<b>24c</b>
<b>3B559</b> .0001	40c	<b>24c</b>
<b>3B560</b> .0002	40c	<b>24c</b>
<b>3B561</b> .00025	40c	<b>26c</b>
<b>3B562</b> .0005	40c	<b>26c</b>
<b>3B563</b> .001	60c	<b>32c</b>
<b>3B564</b> .002	60c	<b>33c</b>
<b>3B565</b> .005	70c	<b>45c</b>
<b>3B566</b> .006	85c	<b>57c</b>
<b>3B567</b> .0075	95c	<b>57c</b>
<b>3B446</b> —Grid leak or resistor clips.		

Pair..... **7c**

## Polymet Condenser Blocks



Special Block for Raytheon Circuit

**3B536**—14 Mfd. Total shpg. wt., 5 lbs. List, \$9.50. **\$5.68**  
Net.....

**3B537**—1-C-1

Mfd. Shpg. wt., 10 oz. List, \$12.00. Net..... **\$1.18**

**3B584**—R210 Thordarson Block—totaling 11. Mfd. Shpg. wt., 5 lbs. List, \$14.00. Net..... **\$8.24**

**3B585**—Amerran Block—totaling 8. Mfd. Shpg. wt., 5 lbs. List, \$12.00. Net..... **\$7.06**

**3B586**—Raytheon "A.B.C." Eliminator Blocks. An efficient assembly unit totaling 19.2 Mfd. for use with Raytheon HA-350 tube and consisting of following units: Block "A" tapped at 4-4-c. Block "B" tapped at e-8-1-1-c-1. Small Buffer type F1001, tapped 1-c-1. Shpg. wt., 5 1/2 lbs. List, \$22.00. Net..... **\$12.98**

## Mountings for Grid Leaks



**3B3123**—Single Mounting. Each..... **13c**  
**3B3124**—Double Mounting. Each..... **23c**

Shpg. wt., 2 oz.

## Amsco Resistor Mounting

**3B1740**—List, 30c. **18c**  
Has two strong phosphor-bronze, nickel-plated clips. Assures positive and noiseless contact. Shpg. wt., 4 oz.

## Carter Fixed Condensers



Molded in bakelite to protect them from moisture. Not affected by climate or temperature. Extremely accurate. Guaranteed within 10% of rated capacity. Tinned terminals for soldering. Shipping wt., 2 oz.

	mf List	mf List	mf List	mf List
<b>3B751</b> .0001	40c	24c	<b>3B754</b> .001	60c 30c
<b>3B752</b> .00025	40c	24c	<b>3B755</b> .002	60c 30c
<b>3B753</b> .0005	40c	24c	<b>3B756</b> .0025	60c 30c

## With Grid Leak Clips

**3B767**—00015 mf. List, 50c. **30c**  
Net.....

**3B768**—00025 mf. List, 50c. **30c**  
Net.....

## Carter By-Pass Condensers

Best grade materials. Sealed in metal can and dipped in special wax compound. Ship. wt., 8 oz.

**3B757**—1/2 mf. List, 90c. **54c**  
Net.....

**3B758**—1 mf. List, \$1.25. **75c**  
Net.....

## Sprague Midget Condensers



High voltage midget condensers. Tested to 1500 volts. The efficiency of these condensers is almost unbelievable. Half the usual size and a quarter the weight. Suitable for continuous operation at 1000 volts D.C. Easy to wire with new type pre-soldered lugs.

	Cap.	List	Net
<b>3B6651</b>	.0001	35c	<b>20c</b>
<b>3B6652</b>	.00025	35c	
<b>3B6653</b>	.0005	35c	
<b>3B6654</b>	.001	40c	<b>23c</b>
<b>3B6655</b>	.002	40c	
<b>3B6656</b>	.0025	40c	<b>27c</b>
	Cap.	List	
<b>3B6657</b>	.005	45c	<b>32c</b>
<b>3B6658</b>	.006	45c	
<b>3B6659</b>	.01	55c	<b>44c</b>
<b>3B6660</b>	.02	75c	
<b>3B6661</b>	.05	85c	<b>51c</b>
<b>3B6662</b>	.1	1.00	

## M. S. Fantail Jacks



Have solid brass frames heavily nickel plated. Tempered springs with pure silver contacts. Bakelite insulation. Connectors are spread fantail, making soldering easy.

	Each
<b>3B2404</b> —Open circuit.....	<b>18c</b>
<b>3B2405</b> —Closed circuit.....	<b>20c</b>
<b>3B2406</b> —Double circuit.....	<b>22c</b>
<b>3B2407</b> —Single circuit filament con.....	<b>31c</b>
<b>3B2408</b> —Double circuit filament control.....	<b>33c</b>

## Veritas Resistors



Especially designed for B Eliminators, transmitting grid leaks and resistance audio amplification. Capable of radiating 4 to 5 watts continuously without change or deterioration. May be soldered directly into circuit or fits standard grid leak mounts.

	Resist.	List	Net
<b>3B480</b>	2,000 ohms	\$1.10	<b>65c</b>
<b>3B483</b>	5,000 ohms	1.10	<b>65c</b>
<b>3B484</b>	7,500 ohms	1.10	<b>65c</b>
<b>3B485</b>	10,000 ohms	1.10	<b>65c</b>
<b>3B486</b>	50,000 (1-20 meg)	.90	<b>53c</b>
<b>3B487</b>	100,000 (1-10 meg)	.80	<b>47c</b>
<b>3B488</b>	250,000 (1/2 meg)	.75	<b>45c</b>
<b>3B489</b>	500,000 (1/4 meg)	.75	<b>45c</b>
<b>3B490</b>	1 megohm	.75	<b>45c</b>

## Tobe Tipon Grid Leak



A new resistor free from induction and capacity.

Leak is made from small glass tubing coated with a slightly conductive layer of metal and sealed in a vacuum. Permanent in value. Capacity 1 watt. Ship. wt., 2 oz.

	meg List	Net	meg List	Net
<b>3B759</b> .1	\$1.00	60c	<b>3B763</b> 1	\$0.50 30c
<b>3B760</b> .25	.50	30c	<b>3B764</b> 2	.50 30c
<b>3B761</b> .5	.50	30c	<b>3B765</b> 3	.50 30c
<b>3B762</b> .75	.50	30c	<b>3B766</b> 5	.50 30c

## Aerovox Tapped Resistances



The aerovox Tapped Pyrohme Resistances are made for all popular eliminator and power pack circuits. Consists of single resistor unit, tapped at the necessary resistance specified for the circuit.

**3B6665**—Type 994-B. For Raytheon "B" or similar rectifying tube. 9,500 ohms tapped 3,000-3,500-1,500-1,500. Net, 165. **90c**

**3B6666**—Type 974-171. For Thordarson type R171 Power compact or circuit, employing Raytheon BH 85 ml. tube. 13,000 ohms — tapped 2,000-3,000-3,000-3,000-2,000. List, \$1.80. Net..... **65c**

**3B6667**—Type 996-210. For Thordarson R210 power compact, 29,000 ohms—tapped 9,000-10,000-10,000-1,000. List, \$2.80. Net..... **\$1.52**

**3B6668**—Type 996-AM. For Amerran eliminators and power amplifiers. 41,000 ohms — tapped 9,000-3,500-4,000-4,500-11,000-9,000. List, \$3.00. Net..... **\$1.62**

**3B6669**—Type 996-BA. For Raytheon BA tube. Eliminates all variable resistances. 3,925 ohms—tapped 60-300-100-865-2,600. List, \$2.30. Net..... **\$1.25**



## Yaxley Phone Plugs



Neat appearing plugs. Highly polished bakelite handles. Perfect contact and bakelite insulation prevent leakage. Shorts are impossible. Shipping weight, 6 oz.

- 3B1517**—No. 50. For one phone or speaker. List, 50c. Net..... **30c**  
**3B1510**—No. 75. Duplex for two phones or speakers. List, 50c. Net..... **36c**

## Cord Extension Jack



Connects extension cord or wire to Speaker or Phones may be plugged at a point distant from the set. Shipping weight, 6 oz.

- 3B1522**—No. 100. List, 75c. Net..... **45c**

## Pup Jack and Plug



Very small, easy to mount, phone tip jack. Mounts in  $\frac{1}{8}$  in. hole. Nickel finish. Plug designed to use as phone tip without soldering. Shpg. wt., 3 oz.

**3B4451**—No. 416 Pup Jack. List, per pair, 15c. Net..... **9c**  
**3B4452**—No. 415 Pup Plug. List, each, 10c. Net..... **6c**

## Midget Jack and Plug



Serves same purposes as Pup Jacks and Plugs, except larger. Mounts in  $\frac{1}{4}$  in. hole. Shipping weight, 2 oz.

**3B4453**—No. 16 Midget Jack. List, each, 30c. Net..... **18c**  
**3B4454**—No. 15 Midget Plug. List, each, 15c. Net..... **10c**

## Yaxley Radio Jacks



These jacks are superior in design and quality—genuine bakelite used for insulation. Springs extra heavy phosphor bronze. Silver contact points. Widely spaced terminals. Mounts on up to  $\frac{3}{4}$  in. panel. Shipping wt., 6 oz.

**3B2409**—Open Circuit No. 1. List, 50c. Net..... **30c**  
**3B2410**—Closed Circuit No. 2A. List, 60c. Net..... **36c**  
**3B2411**—Double Circuit No. 4. List, 80c. Net..... **48c**  
**3B2412**—Single Open Circuit Filament Control for last audio stage No. 3. List, 70c. Net..... **42c**

## Yaxley Junior Jacks



For use where space is at a premium. Extends only  $\frac{1}{4}$  in. behind panel.  $1\frac{1}{4}$  in. long overall. Shipping wt., 6 oz.

**3B2427**—No. 701 Open Circuit. List, 40c. Net..... **24c**  
**3B2428**—No. 702 Closed Circuit. List, 55c. Net..... **33c**  
**3B2500**—No. 703 Single Circuit Filament Control. List, 55c. Net..... **39c**  
**3B2501**—No. 704 Interstage. List, 75c. Net..... **45c**  
**3B2502**—No. 707 Interstage Filament Lighting. List, \$1.05. Net..... **65c**

## Yaxley Junior Jack Switch

For use in small space. Extends  $1\frac{1}{4}$  inches behind panel;  $1\frac{1}{4}$  inches long over all. Shpg. wt., 10 oz.



- 3B2503**—Battery Switch. List price, 70c. Net..... **42c**  
**3B2504**—Two Circuit. List price, 85c. Net..... **51c**  
**3B2505**—Double Circuit. List price, 95c. Net..... **57c**  
**3B2506**—Two Spig. List price, \$1.10. Net..... **66c**  
**3B2507**—Two Way Two Circuit. List price, \$1.20. Net..... **72c**

# YAXLEY

APPROVED RADIO PRODUCTS

## Yaxley Cable Connector



With these devices, unsightly battery wires are brought to set in one neat, compact cable, set is easily disconnected for cleaning. Cannot be inserted improperly. Therefore, you always have the correct connections. All have bakelite plug base—no loose pins or springs. Easily soldered. Standard RMA colors. Equipped with tagged cables 5 ft. long.

- 3B2575**—No. 670 for sets equipped with blinding posts. Pin plug has 15 in. pigtail. List price, \$4.00. Net..... **\$2.06**  
**3B2576**—No. 660 Subpanel mounting type for the Kit Builder. List, \$3.00. Net..... **\$1.77**

### SEPARATE PARTS

- |   | List   | Net    |
|---|--------|--------|
| <b>3B2577</b> —No. 640 Pin Plug 1 1/2 in. leads.....  | \$1.50 | \$0.90 |
| <b>3B2578</b> —No. 650 Receptacle Plug and Cable..... | 2.50   | 1.56   |
| <b>3B2579</b> —No. 680 Base Mounting Plates.....      | 1.00   | .60    |
| <b>3B2580</b> —5 ft. Cable.....                       | 1.00   | .60    |
| <b>3B2581</b> —8 ft. Cable.....                       | 1.45   | .87    |

## Yaxley Convenience Outlets

These outlets fit any standard switch box. Plate is insulated from jack. Very convenient for battery connection. For Battery Connection, No plug included.



- 3B2566**—No. 137. List \$2.50. Net..... **\$1.47**

## For Loud Speaker



Consists of jack and name-plate. Mounted on wall plate. Use one in each room.

- 3B2567**—No. 135. List \$1.00. Net..... **60c**

## Antenna and Ground Plate

Two tip jacks mounted on plate with markers.



- 3B2568**—List, \$1.00. Net..... **60c**

## Gang Plates



The above may be obtained on one plate as follows:

**3B2569**—No. 238 Two-gang Plate with Aerial, Ground and Loud Speaker Jacks. List, \$2.00. Net..... **\$1.18**  
**3B2570**—No. 239 Two-gang Plate with Aerial, Ground and Battery Connections. List, \$3.50. Net..... **\$2.06**  
**3B2571**—No. 350 Three-gang Plate with Loud Speaker, Antenna, Ground and Battery Connections. List, \$4.50. Net..... **\$3.65**

## Yaxley Midget Battery Switch



**3B2508**—List Price, 50c. Net..... **30c**

Small filament control snap switch. Quick action. One-half inch mounting.

**3B4464**—No. 11 Aerial Switch—same as No. 10, except is single pole, double throw. List, each, 65c. Net..... **39c**

## Yaxley Rheostats

- 3B4419**—2 ohms  
**3B4446**—3 ohms  
**3B4469**—6 ohms  
**3B4470**—10 ohms  
**3B4422**—20 ohms  
**3B4471**—25 ohms  
**3B4423**—30 ohms  
**3B4444**—60 ohms  
**3B4447**—100 ohms  
 List, each, \$1.35. Net..... **80c**



Air cooled bakelite frame. No excessive heating. Single hole mount. Complete with knob, shpg. wt., 10 oz.

Potentiometer, same construction. Complete with dial. Shipping weight, 10 oz.

**3B4424**—200 ohms  
**3B4426**—400 ohms  
**3B4448**—1000 ohms  
**3B4455**—2000 ohms  
 List, \$1.75. Net..... **\$1.03**

## Switching Rheostat

Same as standard rheostat, except embodies filament switch of highest grade. Complete with knob, shpg. wt., 10 oz.

**3B4456**—2 ohms  
**3B4458**—6 ohms  
**3B4457**—3 ohms  
**3B4459**—10 ohms  
**3B4460**—25 ohms  
 List, each, \$1.75. Net..... **\$1.03**

## Pilot Switching Rheostat

Same as above, but has pilot light, which mounts above knob. Jewel furnished. Shipping weight, 12 oz.

**3B4461**—6 ohms  
**3B4462**—10 ohms  
**3B4463**—25 ohms  
**3B4464**—40 ohms  
 List, each, \$2.00. Net..... **\$1.20**

## Resistance Units

Units for any radio purpose. Small, accurate, provided with combination screw eye and solder lug.



- List, each, 15c. Net..... **10c**
- |                                      |                         |
|--------------------------------------|-------------------------|
| <b>3B3223</b> —1 ohm                 | <b>3B3231</b> —10 ohms  |
| <b>3B3224</b> —2 ohms                | <b>3B3248</b> —15 ohms  |
| <b>3B3226</b> —3 ohms                | <b>3B3249</b> —20 ohms  |
| <b>3B3227</b> —4 ohms                | <b>3B3251</b> —25 ohms  |
| <b>3B3228</b> —5 ohms                | <b>3B3252</b> —30 ohms  |
| <b>3B3229</b> —6 ohms                | <b>3B3253</b> —40 ohms  |
| <b>3B3230</b> —8 ohms                |                         |
| List, each, 25c. Net..... <b>16c</b> |                         |
| <b>3B3254</b> —50 ohms               | <b>3B3256</b> —200 ohms |
| <b>3B3255</b> —100 ohms              | <b>3B3257</b> —400 ohms |

## Filament Resistances

Same construction as above. Designed to control tube filaments as follows:

**3B3258**—No. 11—For 1-201A type tubes  
**3B3259**—No. 21—For 2-201A type tubes  
**3B3260**—No. 31—For 3-201A type tubes  
**3B3261**—No. 41—For 4-201A type tubes  
**3B3262**—No. 51—For 5-201A type tubes  
**3B3263**—No. 61—For 6-201A type tubes  
 List, each, 15c. Net..... **10c**

## Grid Resistances

Wire wound resistance for the grid circuit to damp oscillations. Mount directly to socket. Shipping weight, 2 oz.

**3B3264**—200 ohms  
**3B3265**—400 ohms  
**3B3266**—500 ohms  
 List, each, 25c. Net..... **15c**  
**3B3267**—600 ohms  
**3B3268**—700 ohms  
**3B3269**—800 ohms  
**3B3270**—1000 ohms  
**3B3271**—1500 ohms  
**3B3272**—2000 ohms  
 List, each, 35c. Net..... **21c**

## Jack Nameplates



Fit under Jack Nut. Very neat. Letters etched on silver background.

Each, 5c; Ten for..... **33c**

**3B2530**—Detector  
**3B2531**—1 Stage  
**3B2532**—2 Stage  
**3B2535**—Radio  
**3B2536**—Loud Speaker  
**3B2537**—Off-On

## Inductance Switches



$1\frac{1}{2}$  inches diameter. Perfect contact. Complete with dial plate and knob.

List Net

**3B2572**—No. 44  
 —4 Point..... **75c 45c**  
**3B2573**—No. 70  
 —4 Point..... **80c 48c**  
**3B2574**—No. 90—9 Point..... **90c 54c**

# CARTER QUALITY PRODUCTS



**Carter Midget Rheostat**

Smallest rheostat made. Diameter 1 1/4 inches. Projects 1/4 inch from panel. One piece all-metal frame, absorbs and radiates heat more readily than a moulded frame. Wires cannot move and short circuit. Shpg. wt., 6 oz.  
 List price 50c. Net Price, 29c  
 3B653 2 ohm 3B656 20 ohm  
 3B654 6 ohm 3B657 25 ohm  
 3B656 10 ohm 3B658 30 ohm

## Midget Potentiometer

List price, 75c. Net.... 44c  
 3B615 200 ohm 3B659 400 ohm

## Carter Midget Rheostat Heavy Duty Type

Rheostat of the same general construction as MIDGET, only it is provided with 3/4 inch resistance strip. It is of rugged construction, small, compact and will dissipate 6 watts. Contact arm is of new and unique design. Shpg. wt., 6 oz.  
 List price 75c. Net.... 44c  
 3B4561 1/2 ohm 3B4565 10 ohm  
 3B4562 1/2 ohm 3B4566 20 ohm  
 3B4563 2 ohm 3B4567 30 ohm  
 3B4564 6 ohm

## H. D. Potentiometers

3B4568 20 ohm List price, 75c  
 3B4569 200 ohm Net.... 45c  
 3B4570 400 ohm



**Midget Rheostat with Switch**

Consists of standard MIDGE T Rheostat with separate illumination circuit switch. Eliminates one knob from set.

List price, \$1.00 Net.... 59c  
 3B4571 2 ohm Shpg. wt., 6 oz.  
 3B4572 6 ohm 3B4574 20 ohm  
 3B4573 10 ohm 3B4576 30 ohm

## Carter Wall Receptacle Jacks



Wall plates for loud speaker, antenna and ground connections. Mounts on any standard outlet box or directly to wall. Shpg. wt., 10 oz.

3B4548—For loud speaker—series connection. List price, 85c. Net.... 51c  
 3B4549—For loud speaker—parallel connection. List price, 80c. Net.... 48c  
 3B4551—With Volume Control. List price, \$2.75. Net.... \$1.65  
 3B4552—Aerial-ground. List price, 90c. Net.... 54c

## Carter Imp Rheostats



The heavy nickled plated brass frame absorbs and radiates heat and will not break, crack or warp. Diameter 1 3/4 inch; projects 1/2 inch back of panel. One hole mounting.

List price, \$1.00. Net.... 59c  
 3B4513 3 ohm 3B4518 20 ohm  
 3B4516 6 ohm 3B4519 30 ohm  
 3B4517 10 ohm 3B4553 50 ohm

## Potentiometers

3B4520 200 ohm List, \$1.25.  
 3B4521 400 ohm Net.... 74c

## Carter Resistance Units Heavy Duty Type



Used to reduce 6 volt current to 5 volts as required for different tube combinations. Can be used as filament ballast.

Resistances—Use—Tubes  
 3B4508 4 ohm 1-201A type  
 3B4509 2 ohm 2-201A type  
 3B4510 1 1/2 ohm 3-201A type  
 3B4511 1 ohm 4-201A type  
 3B4512 3/4 ohm 5-201A type  
 3B4513 1/2 ohm 6-201A type  
 3B4514 4 ohm 1-199 type  
 3B4536 25 ohm 2-199 type  
 3B4537 20 ohm 2-199 type  
 3B4538 15 ohm 3-199 type  
 3B4539 10 ohm 4-199 type  
 3B450 8 ohm 5-199 type  
 All of above. List, 25c. Net.... 15c  
 3B4541—1000 ohm. Grid Circuits. List, 30c. Net.... 18c  
 3B4542—750 ohm. Grid Circuits. List, 30c. Net.... 18c

## Carter Battery Panel Switch



3B2512—List, 65c. Net.... 39c  
 One hole mounting. Slight turn of attractive button makes a quick snap break contact. "On-Off" panel plate.

## Carter Lock Switch

Same as Carter panel switch but with removable key in place of knob. Shpg. wt., 4 oz.

3B2513—Carter Lock Switch. List, 75c. Net.... 45c

## Carter "Imp" Short Jack Switch



Has positive snap action. Extends 3/4 inch back of panel, and is 1 1/2 inches overall. Insulated for metal panel mounting. Furnished with "ON and OFF" name plate. Shpg. wt., 4 oz.  
 3B4543—Single pole, double throw. List price, 60c. Net.... 36c  
 3B4544—Double pole, single throw. List price, 70c. Net.... 42c  
 3B4546—Double pole, double throw. List price, 90c. Net.... 54c



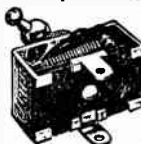
**Carter Hi-Ohm—Hi-Pot**

A non-inductive, wire-protected, high resistance volume control. Contact arm slides on protecting wire covering the special moisture-proof resistance arm.

HI-POT is similar in construction to HI-OHM except for a third terminal.

HI-OHM. List price, \$2.00. Net.... \$1.18  
 3B4554 100,000 ohm  
 3B4555 200,000 ohm  
 3B4556 300,000 ohm  
 3B302 500,000 ohm  
 HI-POT. List price, \$2.25. Net.... \$1.33  
 3B4557 50,000 ohm  
 3B4558 100,000 ohm  
 3B4559 200,000 ohm  
 3B303 500,000 ohm

## "Imp" Power Switch



(For 110 Volt Circuits). Compact, rugged construction, self-contained metal shell and other parts insulated. Quarter turn snap-switch construction. Double contact. For use in regular 6 volt filament or 110 volt circuit.

3B4547—List price, 75c. Net.... 44c

## "Imp" Cord Tip Jack



Replaces binding post for phone cord, using standard phone cord tips or plugs. Nickel plated. Phosphor bronze spring. Mounts in 3/8-inch hole. Cut full size.  
 3B2423—Imp Jack. List, 30c. Net.... 18c  
 3B2424—Carter Imp Plug. List, 15c. Net.... 9c

## Cord Tip Jack

Used in place of Plug Jacks when rapid changes from plug to speaker is desired.

3B2426—List, 10c. Net.... 6c

## Carter Hold-Tite



Plug always fits Jack properly regardless of panel thickness. Phosphor bronze springs. Pure silver contacts. Micarta insulation. Tinned terminals. Shpg. wt., 6 oz.  
 3B2413—No. 101 Open Circuit. List price, 50c. Net.... 29c  
 3B2414—No. 102A Closed Circuit. List price, 60c. Net.... 36c  
 3B2415—No. 104 Double Circuit. List price, 80c. Net.... 48c  
 3B2416—No. 105 Single Circuit Filament Control. List price, 70c. Net.... 42c  
 3B2417—No. 105 Double Circuit Filament Control. List price, 90c. Net.... 53c

## Special Tip Jacks



Used in place of plug Jacks where rapid change from phone to speaker is desired.  
 3B2419—pair.... 10c

## Cutter-Hammer Toggle Switch

A flip of the finger puts it ON or OFF. Simple, quiet operating switch mechanism. Neatly etched plate for panel provides definite indication. One-hole mounting.  
 3B2510—C-H Toggle Switch. List, 60c. Net, 36c

## Heavy Duty Switch

3B2511—List price, 60c. Net.... 39c  
 Controlled by pull and push button. Working parts enclosed in dust-proof insulated case. Shpg. wt., 4 oz.

## C-H. Radio-Lock Switch

Protects set from tampering. Two keys furnished. Shpg. wt., 4 oz.  
 3B2509—List, 60c. Net.... 39c

## Miniature Switches

Bases and handle of polished hard rubber. Nickel plated metal parts. Single throw type to 2 inches long. Double throw types 2 1/2 inches long.  
 3B2521—Single pole, single throw. List, 60c. Net.... 39c  
 3B2522—Single pole, double throw. List, 70c. Net.... 42c  
 3B2585—Double pole, single throw. List, 90c. Net.... 59c  
 3B2524—Double pole, double throw. List, \$1.00. Net.... 60c  
 3B2526—Triple pole, double throw. List, \$1.50. Net.... 90c  
 3B2527—Four pole, double throw. List, \$2.00. Net.... \$1.30  
 3B2528—Five pole, double throw. List, \$2.50. Net.... \$1.50

## Special Miniature Switches



3B2518—Single pole, single throw. List, 20c. Net.... 12c  
 3B2519—Single pole, double throw. List, 30c. Net.... 18c  
 3B2520—Double pole, double throw. List, 50c. Net.... 30c  
 For base or panel mounting. Bakelite bases 1 1/4 inches long. Highly nickel plated blades and posts.



**Bakelite Sockets**



**3B4703**—  
201A Base..... 21c  
**3B4704**—  
UV199 Base..... 23c  
**3B4705**—  
C11 Base..... 30c  
(No barrel)..... 18c  
Moulded of genuine red brown bakelite. Reinforced slot and screw holes. Blinding post connections plainly marked. Positive contact springs of phosphor-bronze. Shpg. wt., 4 oz.

**Silver-Marshall Sockets**

**511 TUBE SOCKET**—  
Bakelite moulded, push type UX socket. Phosphor-bronze contacts. A very high grade product. Shpg. wt., 4 oz.  
**3B680**—List, 50c. Net..... 30c  
**512 TUBE SOCKET**—Similar in all respects to 511 except designed for 5 prong UY and CY base A. C. tubes. Shpg. wt., 4 oz.  
**3B681**—List, 75c. Net..... 44c



**Socket Spring Contacts**

Under panel type. Phosphor-bronze contact springs. Rivet to sheet bakelite. Double contact. Side wiping type. Shpg. wt., 2 oz.  
**3B4622**—For UX prongs. For dozen (3 sets)..... \$1.50  
100 lots..... \$1.50

**New Eby Socket**

**3B4623**—List, 40c. Net..... 24c  
Takes X or standard base tubes. Bakelite base. Three-point wiping contact. Shpg. wt., 4 oz.



**Metal Sub-Panel Sockets**

Make perfect job mounted on metal or bakelite sub-panel. Double wiping contacts mounted on bakelite ring insure perfect contact. Shpg. wt., 2 oz.  
**3B682**—Spring suspension type non-microphonic. Each, 25c  
10 for..... \$1.95  
**3B683**—Solid mounting type..... 20c  
Each..... \$1.58  
10 for..... \$1.58



**Pilot Resistograd**

A non-inductive, non-microphonic, noiseless variable resistor with many radio uses. Allows perfect graduation, having range from practically zero to 30,000,000 ohms (30 megohms). One 3/4-inch hole mount.  
**3B4445**—List, \$1.25. Net..... 68c



**CLAROSTAT**

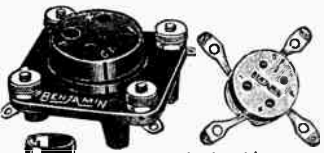
A variable high resistance that provides a positive, gradual, durable, reliable adjustment over a range of from practically zero to five megohms or five million ohms. Will carry a capacity of 20 watts and is absolutely noiseless. Requires one 3/4-inch hole for mounting.  
**3B4442**—List price, \$2.25. Net..... \$1.33



**Power Type Clarostat**

Capacity 40 Watts  
**3B4465**—Filament control, 0-10 ohms.  
**3B4466**—Low Range, 25-500 ohms.  
**3B4467**—Universal Range, 200-100,000 ohms. List, \$3.50. Net..... \$2.06

**BENJAMIN**



Shock absorbing, non-microphonic. Tube element floats independently on base of four perfectly balanced springs. Polished bakelite with nickel metal parts. Perfect connections. Shipping wt., each, 4 oz.  
With Metal Mounting Base  
**3B4619**—Benj. No. 9040. List, 75c. Net..... 44c

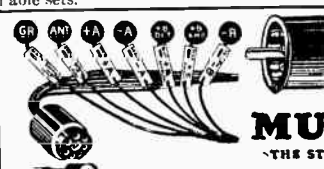
For Sub-Panel Mounting Without base requires 1 1/4-inch Hole.  
**3B4108**—Benj. No. 9044. For 3/4-inch Panel. List, 50c. Net..... 29c

**With Moulded Tube Holder**  
**3B4617**—Benj. No. 8645. For 201A size tubes. List, \$1.00. Net..... 60c

**New Type Y for 5 Prong A. C. Tubes**  
**3B4736**—Benj. No. 9036 with mounting base. List, \$1.20. Net..... 71c  
**3B4737**—Benj. No. 9037 without base for either 1/2 or 3/4-inch sub-panels. List, 90c. Net..... 53c

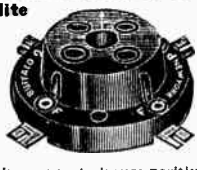
**Sub-Panel Socket**  
Genuine bakelite socket for sub-panel use. All the set builder does is to drill four small holes into the sub-panel through which the thin prongs of the socket are inserted. Center screw tightens up the job neatly and securely. Diam., 1 1/4-in.; 3/4-in. thick, 3/4-in. prongs. Takes all tubes with UX prongs. Secure, solid contact. Shpg. wt., 4 oz.  
**3B1727**—Each..... 11c

**Patent Cushioned Socket**  
**3B4630**—List price, 65c. Net, 39c  
This cushioned tube socket prevents the noises and cracklings due to excess vibrations and disturbances. Recommended for portable sets.



**Buffalo Bakelite Socket**

**3B4731**—  
Each..... 14c  
10 for \$1.37  
**3B4738**—  
With cushion. Each..... 21c  
10 for \$2.05  
Moulded of genuine bakelite. Side swiping contacts insure positive connections. Equipped with lugs for convenient and neat soldering connections. Takes all of the new UX type and all of the old UV type bases with the exception of the UV199 type tube. Shpg. wt., 4 oz.



**AmSCO Floating Socket**

**3B1717**—List, \$1.00. Net..... 58c  
Rugged, sturdy. Eliminates mechanical shocks and prevents microphonic noises. A necessity for the detector tube. Positive wiping contact. Attractive green bakelite base. Takes all X-type tubes. Shpg. wt., 4 oz.



**AmSCO Universal Socket**

**3B1718**—List, 50c. Net..... 30c  
Bakelite base. Positive wiping contact. Takes all X-type tubes. Matches AmSCO floating socket. Shpg. wt., 4 oz.

**Pilot Shock-Proof Socket**

Cushioned on four specially tempered phosphor-bronze springs which act as shock absorbers. Eliminates vibrations. For standard UX and UV tubes. Shpg. wt., 4 oz.  
**3B4635**—List, each, 50c. Net... 29c



**Frost UX Socket**

Made of moulded genuine bakelite in polished maroon finish. Neat, compact design for panel or base mounting. Deep prongs to accommodate new UX type tubes. Shpg. wt., 4 oz.  
**3B4700**—List, 40c. Net..... 24c



**Air-Gap Universal Sockets**

**3B4626**—List price, 60c. Net..... 35c  
Air gap in sockets prevents socket capacity. Clear side swipe springs assure perfect contact. Make any circuit more stable and sharpens the tuning. Shpg. wt., 4 oz.



**Jones MULTIPLUG**  
THE STANDARD CONNECTOR

Instantly connects or disconnects all wires of a set. No chance for errors or burned out tubes. Can't be plugged in wrong. His connections for ground, aerial, A battery and B battery. Eight-foot cable provides a neat wiring arrangement and permits batteries to be placed in any convenient location—in basement, closet, etc. Three types of sockets make possible a fine workmanlike connecting job on any set.

**B. M. Multi-plug Complete for Sub-Panel Mounting Type PM**

4 Ft. Cables	List	Net
3B1546—7 Contact	\$2.25	\$1.33
3B1546—10 Contact	3.00	1.80
3B1547—12 Contact	4.00	2.35
8 Ft. Cables	List	Net
3B1533—7 Contact	\$2.50	\$1.50
3B1548—10 Contact	4.25	2.55
3B1549—12 Contact	5.50	3.29

**W. B. Multi-plug Complete with Base Bracket—Type BM**

4 Ft. Cables	List	Net
3B1566—7 Contact	\$2.50	\$1.47
3B1551—10 Contact	3.25	1.95
3B1552—12 Contact	4.25	2.55
8 Ft. Cables	List	Net
3B1529—7 Contact	\$2.75	\$1.62
3B1553—10 Contact	4.50	2.70
3B1554—12 Contact	5.75	3.38

**Multi-plug Complete with Binding Post Socket**

**Type BP** Socket has 18" Wire Leads, 4 Ft. Cables. List Net

3B1555—5 Contact	\$2.00	\$1.18
3B1556—7 Contact	2.75	1.62
3B1557—10 Contact	3.50	2.10
3B1558—12 Contact	4.50	2.65
8 Ft. Cables	List	Net
3B1559—5 Contact	\$2.50	\$1.50
3B1528—7 Contact	3.00	1.80
3B1572—10 Contact	4.75	2.85
3B1561—12 Contact	6.00	3.60

**Wall Box Type Socket Only with Cable Attached**

**Type WB** (Does not include Plug)

8 Ft. Cables	List	Net
3B1562—5 Contact	\$1.50	\$0.90
3B1530—7 Contact	2.00	1.20
3B1563—10 Contact	3.50	2.10
3B1564—12 Contact	4.50	2.70

# DAVEN PARTS

## New Improved Super Amplifier Type "3S"

A compact 3 stage resistance coupled unit including all resistors, grid leaks and coupling condensers of the proper capacity. Eight binding post terminals in rear. Moulded bakelite base 4x10 in. All interior wiring complete. Sockets fit all standard tubes. Equipped with "C" battery giving greater power without distortion. Shpg. wt., 2 1/2 lbs.  
**3B2900**—Price, not including tubes. List, \$15.00. Net.....**\$8.82**



## Amplifier Kit Type 3-K

For 3 stages of amplification and for those who prefer self assembly. All resistors and grid leaks are included (no sockets). Contains three Daven No. 42 Resisto-Couplers, fitted with coupling condensers of proper capacity. Gives best tone quality and volume on sets using "B" batteries. When assembled will produce the same results as the Daven Super Amplifier. Packed complete with Instructions for building. Shpg. wt., 1 1/2 lbs.  
**3B2901**—List, \$8.00. Net....**\$4.70**

### Type 3-L Kit

Intended especially for operation with "B" Eliminator sets and with superheterodyne circuits. Will not "motor-boat."  
**3B2931**—List, \$8.00. Net....**\$4.70**

## Anti-Motorboater



Prevents motor boating in resistance coupled amplifiers. Increases power handling capacity. Quickly installed by replacing grid leak in second audio stage.

**3B2978**—List, \$4.00. Net.....**\$2.40**



Inserted in Grid circuit of each R. F. Tube, it stops squeals and whistles—oscillations. Shpg. wt., 4 oz.  
 List each, 75c. Net.....**45c**  
**3B2942**—200 ohm. **3B2945**—500 ohm.  
**3B2943**—300 ohm. **3B2946**—600 ohm.  
**3B2944**—400 ohm. **3B2947**—750 ohm.

## Daven Filament Ballast

Eliminates rheostat—automatically regulates current to tubes. Saves wiring space and "A" Battery Current. One Ballast controls one to five tubes. Price includes mounting.



**3B2936**—1 Tube 1/2 Amp. List, each.  
**3B2937**—2 Tubes 3/4 Amp. \$1.00.  
**3B2938**—3 Tubes 1 Amp.  
**3B2939**—4 Tubes 1 1/4 Amp.  
**3B2940**—5 Tubes 1 1/2 Amp. Net. 60c

## Daven Resisto-Coupler

Fixed coupling condenser, mounted in base. Resistor and grid leak are not included in the price as below. Recommended values are:  
 Plate Resistor, all stages 100,000 ohms.



Grid Leaks: 1st stage, 1 meg.; 2d stage, 1/2 meg.; 3d stage, 1/4 meg. Instructions included. Shpg. wt., 6 oz. List, without resistors, \$1.50. Net.....**90c**  
**3B2904**—B-Battery type.  
**3B2930**—B-Eliminator type (will not "motor-boat").

## Hi-Duty Glastor



The big brother of the Daven Glastor—made the same way. Designed particularly for "B" Eliminators where high current capacity is required. DO NOT OVERLOAD. Shpg. wt., 4 oz.  
 List, \$1.00. Net.....**59c**

No.	Ohms	Megohms	Capacity
<b>3B2950</b>	2,500	.0025	28.00 MA
<b>3B2951</b>	5,000	.005	20.00 MA
<b>3B2952</b>	10,000	.01	14.00 MA
<b>3B2953</b>	15,000	.015	11.50 MA
<b>3B2954</b>	25,000	.025	8.90 MA
<b>3B2955</b>	50,000	.05	6.35 MA
<b>3B2956</b>	100,000	.1	4.48 MA
<b>3B2957</b>	500,000	.5	2.00 MA

## Daven Mount

Bakelite base. Nicked fittings; with nuts and lugs for connections. Grid leak not included.  
 Shpg. wt., 2 1/2 oz.



**3B2903**—No. 50 Standard Resistance Mounting. List, 35c. Net.....**21c**

## Daven Manual

Resistors—their practical applications in radio reception. Giving circuit diagrams and other data by leading authority. Shpg. wt., 4 oz.  
**2B2902**—List, 25c. Net.....**17c**



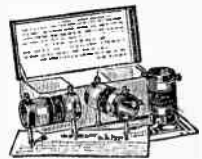
## Daven Glastor

These new Daven resistors entirely eliminate the use of impregnated paper or fibre. Glastor will carry a much higher current and is absolutely noiseless. Will not vary from rated value under any condition. Shpg. wt., 2 oz.

No.	Ohms	Meg-ohms	List	Net
<b>3B2908</b>	2,500	.0025	\$1.00	\$0.59
<b>3B2908</b>	5,000	.005	1.00	.59
<b>3B2907</b>	12,000	.012	.75	.45
<b>3B2908</b>	25,000	.025	.75	.45
<b>3B2909</b>	50,000	.05	.75	.45
<b>3B2910</b>	100,000	.1	.75	.45
<b>3B2911</b>	250,000	.25	.50	.30
<b>3B2912</b>	500,000	.5	.50	.30
<b>3B2913</b>	1,000,000	1.	.50	.30
<b>3B2914</b>	2,000,000	2.	.50	.30
<b>3B2915</b>	3,000,000	3.	.50	.30
<b>3B2916</b>	5,000,000	5.	.50	.30
<b>3B2917</b>	7,000,000	7.	.50	.30
<b>3B2918</b>	10,000,000	10.	.50	.30

## Daven R. F. Coils

Solenoid type coils, small external field. Designed for use in Daven Bass Note Circuit with .0005 Condensers. Suitable for use in any circuit of this type. Range 300 to 550 meters. Greater Selectivity. Shpg. wt., 1 1/2 lbs.

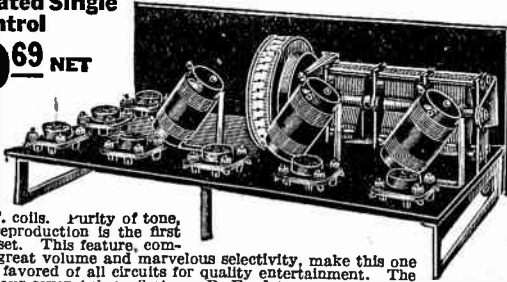


**3B2941**—Set of 3 coils. List, \$8.00. Net.....**\$4.80**

## New Daven Seven Tube Bass Note Circuit Illuminated Single Dial Control

**\$40<sup>69</sup>** NET

The bass Note Circuit built around resistance coupled amplification and the D. R. F. coils. Purity of tone, quality of reproduction is the first aim of this set. This feature, combined with great volume and marvelous selectivity, make this one of the most favored of all circuits for quality entertainment. The circuit employs seven tubes—3 stages R. F., detector and 3 Daven Resistance



coupled audio. Shpg. wt., 15 lbs.  
**3B2976**—Complete set of parts not assembled with 7x18 drilled and engraved panel and sub-panel, single dial control condensers. No tubes, no cabinet. List, \$68.50. Net.....**\$40.69**  
**3B2977**—Set of 7 Daven Tubes for Bass Note Circuit—3 type 201A, 3 type Mu20 and 1 type Mu6. Shpg. wt., 4 lbs. List, \$16.50. Net.....**\$10.69**



## Daven Tubes

These tubes are manufactured in two types expressly for use in sets having Resistance Coupled Amplifiers. The type Mu-20 is recommended for detector and first and second audio stage. For the last audio stage use type Mu-6. The 201A type are superior to most tubes of this type offered and supply uniform appearance to complete set of tubes. Fit all standard sockets. Shpg. wt., 12 oz.  
**2B910**—Mu-20. List, \$2.25. Net.....**\$1.42**  
**2B911**—New Mu-6. List, \$4.50. Net.....**\$2.86**  
**3B907**—Type 201A (Same style bulb). List, \$1.75. Net.....**\$1.19**  
 See Page 54 for new Daven A C Tubes



## The Self Adjusting Rheostat



## AMPERITE

REG. U. S. PAT. OFF.

The automatic filament control which eliminates all forms of hand rheostats from every type of radio receiving circuit and by perfect self-adjustment permits the uniformly efficient operation of vacuum tube filaments.

No moving parts. Permits the use of any type of tubes or any combination of tubes.

Ampelite operates on the Thermo-Electric principle. It consists of a special treated filament hermetically sealed in a glass tube and surrounded by an inert gas. This filament has the unique property of changing its resistance automatically as the "A" battery voltage changes. Thus the tube filament is constantly operated at maximum efficiency—for best volume and longest life.

**GARANTEE**—Every Ampelite is guaranteed to function perfectly and against any defect in construction. If found defective in any respect replacement will be made without charge.

List price, \$1.10. Net price, complete with mounting..... **65c**

**3B3207**—No. 1-A—1/2 ampere type—for the UV-201-A; C-301-A; UX-201-A; CX-301-A; UX-200-A; DV-2 or any 1/2 ampere, 5 volt tube on the 6-volt "A" battery.

**3B3208**—No. 4V-199—for the UV-199; C-299; UX-199; CX-299; DV-3 on 4 1/2 volts (3 dry cells) or on 4 volt storage battery.

**3B3209**—No. 6V-199—for the UV-199; C-299; UX-199; CX-299 and similar tubes on the 6-volt "A" battery.

**3B3210**—No. 112—1/2 ampere type—for the UX-112; CX-212; UX-171; CX-371 and similar tubes or 2 1/2 amp. 201-A tubes on the 6-volt storage battery.

**3B3211**—No. 120—for the UX-120 and the CX-220 on 4 1/2 volts (3 dry cells) or on the 4-volt storage battery.

**3B3214**—3-A—1/2 ampere to control 3 1/4 amp. (201-A) tubes on 6 volts.

**3B3213**—No. 4-A—for all 1 ampere 5-volt tubes or 4 1/2 amp. (201-A) on 6 volts.

**3B3299**—Double Ampelite Mounting. Shpg. wt., 4 oz. **42c**

List, 70c. Net.....

## "Electrad" Variable High Resistance



Ideal for volume control. Wire wound on genuine bakelite base. Resistance remains constant at every point, permitting full range in one turn. Non-inductive, non-hydroscopic. No parts to break or wear. Practically indestructible. Unusually high current-carrying capacity.

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

**3B3232**—Type A Variable grid leak—1-10 to 7 megohms.

**3B3233**—Type B—1,500 to 100,000 ohms.

**3B3234**—Type C—500 to 50,000 ohms.

**3B3235**—Type D—10,000 to 700,000 ohms (detector control for B eliminator).

**3B3282**—Type F—0 to 2,000 ohms.

**3B3283**—Type K—0 to 5,000 ohms.

**3B3284**—Type G—0 to 10,000 ohms.

**3B3285**—Type H—0 to 25,000 ohms.

**3B3286**—Type J—0 to 200,000 ohms.

**3B3287**—Type L—0 to 500,000 ohms.

**3B3236**—Type E—Compensator. 500-1,000 ohms potentiometer for perfect tone and volume control. List price, \$1.18

price \$2.00. Net price..... **89c**

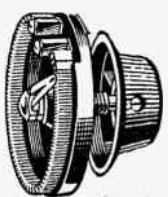
**3B3288**—Tonatrol—Standard Volume Control. List price, \$1.60.

Net..... **89c**

**3B3289**—Tonatrol—Type W. S. List, \$2.00. Net..... **\$1.18**

Net.....

## DE LUXE RHEOSTATS



Fine looking rheostat of the highest quality. Carefully made of best materials. Genuine bakelite base. Large size attractive polished black knob. Only one hole required for secure mounting.

Smooth, quiet regulation of current. Potentiometers match rheostats and are of the same high grade design and construction.

**3B4604**—5 ohm. List, \$1.00.

**3B4605**—6 ohm. Net..... **45c**

**3B4607**—10 ohm.

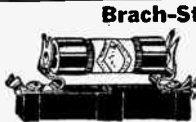
**3B4608**—20 ohm.

**3B4609**—30 ohm.

**3B4609**—50 ohm.

**3B4638**—200 ohm potentiometer. List, \$1.25.

**3B4611**—400 ohm potentiometer. Net..... **65c**



## Brach-Stat

Automatic filament control of tubes. Eliminates hand rheostats. With mounting complete.

List, \$1.00. Net..... **59c**

**3B3238**—1/2 amp. (for 1-201-A).

**3B3273**—1/2 amp. (for 2-201-A or 1-112, 1-171).

**3B3274**—3/4 amp. (for 3-201-A, etc.).

**3B3275**—1 amp. (for 4-201-A or 2-112, etc.).

**3B3276**—1 1/4 amp. (for 5-201-A, etc.).

**3B3277**—1 1/2 amp. (for 6-201-A, etc.).

**3B3239**—.06 amp. (for 1-199 on 4 1/2 V).

**3B3279**—.125 amp. (for 2-199 on 4 1/2 V).

**3B3280**—.19 amp. (for 3-199 on 4 1/2 V).

**3B3281**—.25 amp. (for 4-199 on 4 1/2 V).

**3B3281**—.315 amp. (for 5-199 on 4 1/2 V).

## Elkay Equalizer

With the entrance of new type tubes into radio, sets were unprepared for rapid changes to the various types. Elkay



has devised a control which equalizes the working voltage by inserting this device into the tube circuit. With slight change in wiring tubes may be changed on short notice by merely changing the control.

**3B3218**—For 1 201-A tube. List price, \$1.00. Net..... **75c**

**3B3220**—For 2 201-A tubes. } Including mounting. **39c**

**3B3221**—For 3 201-A tubes. }

**3B3222**—For 112 tube. }

**3B3225**—For 199 tube. }

Net.....

## C. R. L. Radiohm and Modulator

Non-inductive variable resistances smoothly variable from zero to maximum. Modulator is used in audio frequency circuit to modulate and control volume. Bakelite shell and knob. 1-hole mounting. List, each, \$2.00. Net..... **\$1.18**



**3B3241**—2,000 ohms max. Radiohm.

**3B3242**—25,000 ohms max. Radiohm.

**3B3243**—50,000 ohms max. Radiohm.

**3B3244**—100,000 ohms max. Radiohm.

**3B3245**—200,000 ohms max. Radiohm.

**3B3240**—500,000 ohms max. Modulator.

**3B3246**—400 ohm max. Potentiometer.

**3B3247**—2,000 ohm max. Potentiometer.

## Frost DeLuxe Rheostats

Nationally advertised. Carefully built, smooth operating and noiseless. Metal Frame

- 3B4400**—2 1/2 ohms
- 3B4401**—4 ohms
- 3B4402**—6 ohms
- 3B4403**—10 ohms
- 3B4404**—25 ohms
- 3B4405**—30 ohms
- 3B4406**—50 ohms
- 3B4407**—75 ohms
- List price..... **75c**



Net..... **45c**

**Potentiometers**

**3B4408**—200 ohms. List price, \$1.00

**3B4409**—400 ohms. Net..... **59c**

**Bakelite Frame**

**3B4412**—30 ohms. List each, \$1.00

**3B4414**—30 ohms. Net..... **59c**

**Metal Frame with Switch**

**3B3291**—3 ohms. List price, \$1.10

**3B3292**—10 ohms. Net..... **65c**

**3B3293**—25 ohms. Net..... **65c**

**Bakelite Frame with Switch**

**3B3294**—10 ohms. List, \$1.35. Net..... **80c**

## Frost Variable High Resistance



Non-Inductive  
Silent in operation. Resistance does not change under varying temperature or constant use. Nيكeled case. Attractive arrow marked dial.

**3B3845**—50,000 ohm. List, \$7.75

**3B3846**—100,000 ohm. Net..... **\$1.03**

**3B3847**—200,000 ohm

**3B3290**—500,000 ohm

## Standard Rheostats and Potentiometers

**3B4500**—6 ohm plain.

**3B4501**—6ohm vernier

**3B4502**—10 ohm rheo.

**3B4503**—20 ohm rheo.

**3B4504**—30 ohm rheo.

**3B4505**—50 ohm rheo.

Each..... **26c**

**3B4506**—200 ohm potentiometer..... **39c**

**3B4507**—400 ohm potentiometer..... **50c**

These instruments are of high quality and careful workmanship. High heat resisting base. Resistance element securely wound and will not work loose. Binding post connections. Standard spaced screw holes for mounting. Smooth working contact lever.

## Bradleystat

**3B4431**—List, \$1.85. Net..... **\$1.20**

Latest improved type for use with all types of tubes. Provides an unbroken, noiseless, stepless range of control. One hole panel mounting. Enclosed switch to cut off current entirely. 2 inch long, 1 1/2 inch thick.



## Bradleyohm

**3B4432**—200 ohm. List, \$1.30

**3B4433**—400 ohm. List, \$1.95

**3B4434**—1,000 ohm. List, \$3.00. Net.....

The smooth, even precision resistance control for balancing of the plate and grid circuits.

## Bradleyohm

Type E

An adjustable traitite disk resistor. Provides a wide stepless range of non-inductive resistance suitable for B Eliminator. One hole mounting. Extends 1 1/2 inch behind panel.

List, \$2.25. Net..... **\$1.46**

**3B4434**—100 to 5,000 ohm.

**3B4435**—1,000 to 50,000 ohm.

**3B4436**—10,000 to 500,000 ohm.

**3B4437**—25,000 to 1,500,000 ohm.





### Eby Ensign Binding Posts

These binding posts are the finest on the market. They are used as standard equipment on many of the highest priced manufactured sets. They have patented construction, non-removable tops which unscrew enough to allow plenty of room for wires. All are complete with nut, lug and screw. Neat white enamel captions engraved on polished black bakelite top. Diameter 1/2 inch. Size 6-32 screw - 3/4 inch long.

3B638—Plain.	3B885—B	3B863—C Bat.
3B639—Ant.	Amp. +	3B891—4 V. C—
3B881—Short Ant.	3B646—22 V. +	3B892—9 V. C—
3B640—Long Ant.	3B647—45 V. +	3B893—27 V. C—
3B882—Gnd.	3B886—67 V. +	3B894—40 V. C—
3B883—	3B648—90 V. +	3B651—Phones.
3B641—A Bat. +	3B649—135 V. +	3B895—Speaker +
3B642—A Bat. +	3B887—150 V. +	3B896—Speaker +
3B862—A + Bat.	3B888—180 V. +	3B897—Input.
B	3B889—200 V. +	3B898—Output.
3B644—A Bat. +	3B890—A—Bat.	3B645—Loop.
3B643—B Bat. +	C—	3B899—Loop 1.
3B884—B Det. +	3B652—CBat. +	3B879—Loop 2.

### Eby Binding Post Strip



A strip of 7 posts in the most popular markings mounted on polished hard rubber strip, with nickel-plated brackets and wood-screws.

3B637—List price, \$1.25. Net. **75c**

### X-L Binding Post Strip

Binding post strip strongly constructed on good quality polished bakelite strips. Markings are silver and black nickel-plated plates set under binding posts.



3B662—List price, \$1.50. Net. **95c**

### Binding Posts on Panel Strip

3B795—Black. Each. **30c**  
Set of seven binding posts mounted on strip. Posts plainly marked; soldering lugs attached.



### X-L Binding Posts

Have attached silver and black finish post marker. Connection is made by pressing cap down, insert wire, remove pressure and wire is firmly held.

3B1355—Aerial	3B1363—	3B1367—C Bat. +
3B1356—Ground.	B Bat. 22 1/2 +	3B1368—A + B
3B1357—dial k.	3B1364—	3B1369—B Det.
3B1358—A Bat. -	B Bat. 45 +	3B1370—B + Amp.
3B1359—A Bat. +	3B1365—	3B1371—Sht. Aerial
3B1360—Phones	B Bat. 90 +	3B1372—Lg. Aerial
3B1361—B Bat.	3B1366—C Bat. -	3B1373—Loop

List price, 15c. Net, each. **10c**

### Switch Levers

3B635—With black knob. Each. **10c**  
Lever adjustable from 1 1/2 to 1 3/4 inch radius.



### Switch Contact

3B630—Per doz. **8c**  
Per hundred. **30c**  
Per thousand. **50c**  
Brass, fine polished nickel finish. Screws are 3/8 in. long; size, 6-32.

### Switch Lever Stop

3B797—Per doz. **9c**  
Made of brass, polished nickel finish. Has 3/4 in. long 2 screw. One nut.

### Solderless Lugs

A copper lug on which no solder is required. Wire is held in grip.  
3B623—Pkg. of fifty **20c**



### "T" Lug

3B624—3 doz. **30c**

### Solder Lugs

Fits binding posts and contact points.  
3B626—Per 100 **30c**  
Per thousand. **\$1.40**



### Rajah Connectors

A positive solderless snap for connecting lead wires. Just push on or pull off to make or break connection.

3B796—  
List price. **20c**  
Net. **12c**

### Fahnestock Spring Grip Connectors

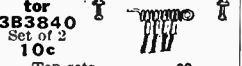
For connecting wires or making connections on binding posts or other parts.  
3B3876—Single connector. **15c**  
3B3877—Double connector. **30c**

### Spring Connector

3B3840  
Set of 2 **10c**

### Pen sets.

Fit any binding post. With their use up to five sets of phones or loud speakers can be connected up at one time.



### Radio Screw Assortment

3B628  
List price **50c**  
Net price. **29c**  
A handy assortment of wood screws, machine screws, nuts and washers in the sizes and styles needed for assembling radio sets.

### Lettered Binding Posts



3B700—Per set of eight. List **50c**. Net. **25c**

Have fine looking polished black insulated tops with titles clearly marked in contrast white enamel. Titles supplied are those used on practically all sets. Complete with brass barrel polished nickel finish and screw to fit panel of any thickness.

### Composition Top Binding Posts

3B701—Per doz. **30c**  
Per hundred. **\$2.50**  
Well made, attractive looking. Polished black insulated top. Brass body nickel plated. Size 6-32 screw with washer extends 1/2 inch.

### Ready Panel Mounting for Binding Posts



### Brass Binding Posts

3B715—Black, each. **15c**  
3B716—Mahogany, each. **16c**  
Consists of a strip of finest hard rubber paneling 1/2 inches wide, 7 inches long and 3-16 inch thick. Drilled and marked as shown.

### Binding Post Mounting Strips

Drilled for mounting binding posts. Screw holes at ends. 3-16 inch thick. Strips unlettered.

3B705—For 10 posts.	<b>30c</b>
3B706—For 9 posts.	<b>26c</b>
3B707—For 8 posts.	<b>22c</b>
3B708—For 7 posts.	<b>20c</b>
3B709—For 6 posts.	<b>18c</b>
3B710—For 5 posts.	<b>16c</b>
3B711—For 4 posts.	<b>15c</b>
3B712—For 3 posts.	<b>14c</b>
3B713—For 2 posts.	<b>13c</b>

### Double Binding Post

3B702—Each. **8c**  
Dose **65c**

Made of brass polished nickel finish. Has two holes for wires or cord tips. Fits any thickness of panel.

### Post Markers

3B627—  
Per doz. **30c**  
N nicely finished in silver and black. Sold in dozen lots only. Specify titles wanted.

### Plate

Aerial	+ A Bat.	+ B Bat.
Ground	+ A Bat.	+ 20 V.
Phones	+ B Bat.	+ 50 V.
Output	+ C Bat.	+ 90 V.
Input	+ B Bat.	+ 130 V.
Tieklar	Grid	Loop

### BRASS SCREWS Polished Nickel-Plated Heads

The five styles of screws shown are all brass with polished nickel plated heads, especially made for radio set builders.

### Round Head Machine Screws

Size, 6-32 thread to inch.	Length	Gross
3B876—	1/4 in.	<b>39c</b>
3B600—	1/2 in.	<b>42c</b>
3B601—	3/4 in.	<b>43c</b>
3B602—	1 in.	<b>44c</b>
3B603—	1 1/4 in.	<b>58c</b>
3B604—	2 in.	<b>68c</b>

### Flat Head Machine Screws

Size 6-32 threads to inch.	Length	Gross
3B877—	1/4 in.	<b>43c</b>
3B875—	1/2 in.	<b>45c</b>
3B876—	3/4 in.	<b>46c</b>
3B877—	1 in.	<b>47c</b>

### Oval-Head Machine Screws

Size 6-32 threads to inch.	Length	Gross
3B878—	1/4 in.	<b>47c</b>
3B878—	1/2 in.	<b>48c</b>
3B879—	3/4 in.	<b>49c</b>
3B610—	1 in.	<b>50c</b>

### Round-Head Wood Screws

Proper thickness for radio work. Size 5 and 6.

3B611—	Length	Gross
3B612—	1 in.	<b>42c</b>
3B613—	1 1/2 in.	<b>51c</b>
3B614—	1 in.	<b>54c</b>
3B614—	1 1/2 in.	<b>63c</b>

### Oval-Head Wood Screws

Proper thickness for radio work. Sizes 6 and 7.

3B616—	Length	Gross
3B617—	1 in.	<b>47c</b>
3B617—	1 1/2 in.	<b>48c</b>

### Hexagon Nuts

Made of brass nickel plated. Chamfered and counter sunk. Fit all size 6 screws with 32 threads to inch.  
3B618—Gross. **48c**

### Flat Washers

Made of brass nickel plated. Fit size 6 screws.  
3B619—Gross. **25c**

### Flat Lugs

3B620—Per 100. **36c**  
Per thousand. **\$2.25**  
Flat lug with two holes. Illustration actual size.



### Shakeproof Lugs and Washers

Similar to lug above, but smaller in size.  
3B621—per 100. **32c**  
Per thousand. **\$2.15**

3B631—Lugs, per 100 **39c**  
3B632—Washers, per 100 **35c**



# BUS BAR—WIRE—COIL FORMS—TUBING—SHIELDING

## Bus Bar Strip

**3B2213**—3-foot strips. List, each, 30c. **19c**  
Net.  
Flat brass strip 1/2-inch wide approximately .0010-inch thick. Replaces bus wire on high grade sets. More satisfactory because of better, firmer and more durable contacts.

## Tinned "Bus" Wire

Cut into two-foot lengths  
**3B2101**—Round, 10 lengths (20 feet) **14c**  
100 lengths (200 feet) **\$1.03**  
**3B2102**—Square, 10 lengths (20 feet) **15c**  
100 lengths (200 feet) **\$1.13**  
Size 14 tinned stiff solid copper wire. For wiring sets. Best size for neat job and easy soldering. 2-foot lengths.

## No. 12 Bus Wire

**3B210\***—Round, 2-ft. lengths, 10 lengths (20 feet) **23c**  
100 lengths (200 feet) **\$2.05**

## Gosilco Bus-Wire

Size 14 copper bus-wire, silver plated, with protective covering of 24K gold.  
**3B2108**—10 feet. List, 60c. **40c**  
Net.

## Celatsite Bus Wire

**3B2100**—List price per 30-inch length, 10c. Net price, 10 **45c**  
lengths for.

Tinned copper bus wire insulated with highest grade varnished coverings, supplied in yellow, black, green, maroon, salmon, slate gray, blue, white and red. Using different colors makes tracing of circuits easy and sure, neater and lower cost. Size 14 stiff solid wire.

## Acme Flexible Celatsite Hook-up Wire

**3B2106**—25 ft. coil. **45c**  
Net.  
Very flexible stranded copper conductor. Covered with cotton serving and smooth, glossy varnish. Easily bent. Makes attractive job. Supplied in black, yellow, brown, green, maroon, salmon, slate gray, blue, white and red colors. Specify color wanted.

## Acme "Spaghetti" Tubing

**3B2105**—List price per 30-inch length, 10c. Net **45c**  
price, 10 lengths for.  
The best quality spaghetti made. Made of high grade cambric tubing impregnated with high insulation transparent varnish. Supplied in yellow, red, green, brown, maroon, salmon, slate gray, blue, white and black colors. Different colors can be used to mark different circuits. Specify color.

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**3B2105**—List price per 30-inch length, 10c. Net **45c**  
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The best quality spaghetti made. Made of high grade cambric tubing impregnated with high insulation transparent varnish. Supplied in yellow, red, green, brown, maroon, salmon, slate gray, blue, white and black colors. Different colors can be used to mark different circuits. Specify color.

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**WE PAY FREIGHT**  
See Page 3

## Rubber Covered Hook-Up Wire

Stranded, tinned copper wire covered with live rubber insulation for withstanding any voltage ordinarily used in radio. Best for short leads and ease of wiring. Five colors. 25-foot coils.



**3B2220**—Red.  
**3B2221**—Green.  
**3B2222**—Blue.  
**3B2223**—Black.  
**3B2224**—White.  
List price, 40c each. **24c**  
Net each.

## Pigtail Wire

**3B2006**—10 feet. List price, 35c. **20c**  
Net.

A braided wire cable made up of very fine strands of copper wire, which gives it extreme flexibility. Use it for making connections on your variable condensers, variometers and switches and avoid high frequency resistance losses. Prevents noise caused by loose or imperfect connections due to sliding contacts.

## Litz Wire for Loops

**3B2004**—Per 125 ft. List, \$1.00. **65c**  
Net.

Conductor of 60 strands No. 38 wire with 5 strands No. 36. Specially treated to prevent stretching. Covered with double serving of maroon cotton.

## Silk Covered Loop Antenna Wire

**3B2005**—Per 125 ft. List, \$1.75. **87c**  
Net.

Composed of 60 strands No. 38 copper wire with 5 strands No. 36. Covered with inner serving cotton. Outer serving artificial silk of maroon or green color. Looks well, will not stretch and holds its shape.

## Litz Wire for Coils

**3B2003**—Per 100 ft. List, \$1.00. **65c**  
Net.

Consists of 20 strands of No. 38 enameled wire, twisted and covered with a double serving of silk. The correct wire for low loss inductance coils. Equivalent to size 25.

## Radio Shellac Compound

For covering cabinets, base boards, etc. Also used for impregnating wires, but our insulating cement is recommended in preference for this purpose. 2 oz. bottle. **18c**  
**3B2209**—Bottle.

## Radio Insulating Cement

**3B2210**—**22c**  
Bottle.  
A transparent celluloid base cement for insulating and impregnating wires and coils. Makes spider web, honeycomb, etc., coils self-supporting. No capacity or absorption effects. 2-oz. bottle.

## Bakelite Low Loss Coil Supports

The bakelite tubing and strips listed here can be assembled together to make low loss coil supports on which all types of loss windings can be constructed. All tubing is 3/4-inch wide, 1/4-inch thick. Dimension given is inside diameter.



Two Ten pieces  
**3B2300**—2 1/2 in. **19c** 68c  
**3B2301**—2 3/4 in. **22c** 74c  
**3B2302**—3 in. **24c** 82c  
**3B2303**—3 1/4 in. **25c** 89c  
**3B2304**—3 1/2 in. **26c** 96c  
**3B2305**—Bakelite strips 1/4 in. wide, 1/4 in. thick, 6 **20c**  
in. length.

## Bakelite Tubing

Genuine bakelite tubing. Pieces 3 in. long only. For winding coils. Very strong. Will not warp nor bend. 1/4-inch wall. Natural color. Diameter given is inside.



	Single Lots	Lots of ten
<b>3B2311</b> —2 in.	19c	13c
<b>3B2312</b> —2 1/4 in.	19c	17c
<b>3B2313</b> —2 3/4 in.	19c	15c
<b>3B2314</b> —3 in.	22c	20c
<b>3B2315</b> —3 1/4 in.	25c	18c
<b>3B2316</b> —3 1/2 in.	24c	23c
<b>3B2317</b> —3 3/4 in.	22c	21c
<b>3B2318</b> —4 in.	29c	27c

NOTE: Tubing any diameter and any length can be supplied at prices in proportion to above. Minimum charge on special orders for tubing is 50c per order.

## Cardboard Tubing

Used for making tuning coils, loading coils, etc. Made of selected stock covered with smooth paper. All sizes are 1 foot long.

**3B3835**—Diameter 2 in. Single lots, 13c; Lots of ten, 11c.  
**3B3836**—Diameter 2 1/2 in. Each, 14c; Lots of ten, 12c.  
**3B3837**—Diameter 3 in. Each, 15c; Lots of ten, 13c.  
**3B3838**—Diameter 3 1/2 in. Each, 17c; Lots of ten, 15c.  
**3B3839**—Diameter 4 in. Each, 19c; Lots of ten, 18c.  
Size can be assorted for 10 lot price.

## Zinc Shielding

For use between A, F or R. F. stages, for shielding panels or cabinets. Thick enough to be self-supporting and hold shape firmly when bent. Easily formed or cut. Made of zinc with polished nickel coating.  
**3B2206**—Size 6x12 inches. Per sheet. **40c**  
**3B2207**—Size 7x24 inches. Per sheet. **80c**

## Spider-Web Coil Form

**3B2214**—Fiber. Diam. 5 inches, 13 spokes. Each. **10c**  
**3B2215**—Bakelite. Diam. 3 1/2 inches, 15 spokes. **16c**  
Each.  
Strong material that will support coil under severest handling.



## Wood Winding Form

**3B2216**—**20c**  
Each.  
For winding spider web coils. Diameter 6 inches. 17 spokes.



## Threaded Bakelite Tubing

**3B2323**—Genuine bakelite tubing threaded for space winding. Tube is 2 1/4 in. long, 1 1/4 in. outside diameter, 1/4 in. inside. Threaded with 104 threads, 64 threads per inch. Best suited for No. 30 enamel wire. Full length winding accurately covers the broad-astar band with .00035 variable condenser. **21c**  
Net, each.

## Bakelite Discs

	Single	Lots
<b>3B2306</b> —2 in. Diam.	8c	3c
<b>3B2307</b> —2 1/2 in.	9c	23c
<b>3B2308</b> —3 in.	12c	31c
<b>3B2309</b> —3 1/4 in.	12c	27c
<b>3B2310</b> —4 in.	14c	36c

Plain solid black bakelite discs—thickness 1/4 inch.

## Copper Foil

**3B2201**—6x24 inches. **25c**  
Per piece.  
**3B2202**—8 1/2 x 72 in. **\$1.20**  
Per piece.  
**3B2203**—12x30 in. **75c**  
Per piece.  
Thin copper foil for shielding panels or cabinets. .005 inches thick.

## Tin Foil

**3B2204**—Sheets 6 1/2 x 8 1/2 inches, about 25 sheets to the pound. **36c**  
Per lb.  
**3B2205**—Sheets 6 x 24 in., about 8 sheets to the pound. Per lb. **39c**  
Used for making condensers shielding panel or cabinets.

## Aluminum Shielding

Proper thickness for maximum shielding effect with ample mechanical strength. Commercially pure aluminum sheets. About 1/8 inch thick. Shipping wt., 2 to 6 lbs.  
**3B2219**—6 x 12 inches. **45c**  
Each.  
**3B2220**—7 x 24 inches. **82c**  
Each.  
**3B2221**—8 1/2 x 30 inches. **\$1.15**  
Each.

## All Kinds of Magnet Wire

For making practically every kind of radio and experimental apparatus and for repairing motors or other electrical apparatus. One piece only on a spool. Sizes given are standard B. & S. Be sure to state number and size. Prices quoted are for 8-ounce spools unless otherwise stated.



Double Cotton	White	Enameled	3B2000	3B2001	Double Silk Green	3B2002	Wire Size	Feet per 8-oz. Spool	D.C.C.
22c							14	38	
25c							16	91	
28c							18	90	
31c		22c			50c		20	139	
35c		25c			55c		22	232	
36c		27c			58c		24	356	
39c		32c			62c		26	540	
42c		34c			60c		28	815	
45c		40c			76c		30	1210	

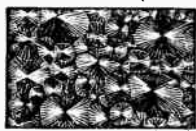
### Goodrich Hard Rubber Panels

Acknowledged by those who know to be the best hard rubber panels made for radio purposes, yet they cost no more than inferior makes.

A special insulation for radio purposes. The choice of set builders and engineers. Wonderful smooth high polished finish eliminates losses caused by moisture gathering on surface of ordinary insulation. Made of special compound having a rubber base. Can be drilled or cut without chipping. Will not warp. A perfect insulator for radio use. Smooth, clean edges. Thickness, 3/8-inch. Av. ship. wt., 3 lbs.

BLACK		MAHOAGNY		
No.	Each	No.	Each	
3B5618	\$0.57	7x10	3B5624	\$0.73
3B5619	.59	7x12	3B5628	.57
3B5620	.77	7x14	3B5629	.88
3B5623	.94	7x18	3B5630	1.14
3B5621	1.10	7x21	3B5631	1.32
3B5624	1.29	7x24	3B5632	1.38
3B5626	1.39	7x26	3B5627	1.68
3B5629	1.67	7x30	3B5625	1.87

### Florentine (Frieze) Panels



A new and distinctive panel of rich, attractive appearance and improved service greatly adds to the appearance of any set—blends with any cabinet or scheme of interior decoration; makes an instant appeal. Made of best quality hard rubber compound, one side finished in florentine (crackled) design, the other a rich figured walnut. Will not scratch easily, show finger prints nor smudge. A real low-loss panel easy to drill and engrave. Thickness, 3/8 inch. Average shipping wt., 3 lbs.

No.	Panel Size	Each
3B5633	7x18	\$1.19
3B5636	7x21	1.47
3B5637	7x24	1.60
3B5640	7x26	1.73
3B5600	7x28	1.85
3B5635	7x30	1.95

### Self-Supporting Brackets

Assembles sub-panel firmly to front panel. Depth, 6 3/4 in. Takes sub-panels up to 8 in. deep. 2 in. high, plenty of room beneath panel for wiring, resistances, etc. Nickel finish. Ship. wt. 12 oz.



3B5719—Per pair, list, 70c. Net. . . . . 42c

### Adjustable Brackets

Can be adapted to meet practically any requirements. Fit any slope of panel. Adjustable distance to bottom of cabinet. Adjustable length. Made of brass nickel plated. Ship. wt., 1 lb.



3B4116—Per pair, list, \$1.25. Net. . . . . 77c

### Panel Mounting Brackets

Cast aluminum brackets for mounting sub-base and front panel. For 7 inch high panels, depth 7 3/4 inches. Ship. wt., 1 lb.



3B5720—Pair, list, \$1.50. Net. . . . . 89c

### Bakelite Brackets

Genuine bakelite brackets to support sub-panels. Dimensions: 6 1/2 inches long, 2 inches wide and 1/2 inch thick. Have no effect on circuit. Ship. wt. 10 oz.



3B5723—Pair, list price, \$1.00. Net. . . . . 60c

### Bakelite or Phenoline Panels

This product has been used for many years in Radio work. Made of laminated stock, impregnated with phenol compound. We supply best grade bakelite or phenoline panels which are chemically and mechanically similar. Machine well without chipping. Won't warp. Waterproof. Attractive natural polished black finish can be sanded or oiled. Av. ship. wt., 3 lbs.

No.	Each	Inches	No.	Each
3B4920	\$0.59	6x7	3B5601	\$0.59
3B4921	.77	6x10 1/2	3B5602	.91
3B4922	.89	7x12	3B5605	1.25
3B4923	1.23	7x14	3B5606	1.38
3B4924	1.37	7x18	3B5609	1.75
		7x21	3B5603	2.10
		7x24	3B5604	2.40
		7x26	3B5607	2.55
		7x28	3B5608	2.78
		7x30	3B5611	3.05
		9x14	3B5610	1.90

Supplied only in 3/8-in. size

### Walnut Finish

Same as above but rich figured Walnut finish. Av. ship. wt., 3 3/4 lbs.

No.	Panel Size	Each
3B4928	7x18 3/4	\$1.27
3B4929	7x18 1/2	1.27
3B4930	7x21 1/2	1.37
3B4931	7x24 1/2	1.55
3B4932	7x26 1/2	1.68
3B4933	7x28 1/2	1.80
3B4934	7x30 1/2	1.90

### Bakelite or Phenoline Sub-Panels

Sizes cut especially for use as sub-panels. Av. ship. wt., 2 lbs.

No.	Panel Size	Thickness	Each
3B5561	3x17 1/2	1/8	\$0.75
3B5562	3x17 1/2	3/16	1.12
3B5563	3x20 1/2	1/8	1.25
3B5564	3x23 1/2	1/8	1.52
3B5565	3x26 1/2	1/8	1.80
3B5566	3x29 1/2	1/8	2.08
3B5567	4x17 1/2	1/8	3.40
3B5568	4x20 1/2	1/8	3.77
3B5569	4x23 1/2	1/8	4.04
3B5570	4x26 1/2	1/8	4.31

### Engraved Panels for Circuits

See page 108 for drilled engraved panels for popular circuits.

### Special Size Panels

We can supply bakelite or phenolite panels in any size or thickness, either black mahogany or walnut finish. Remit full value of panel with order. Special size panels cannot be exchanged.

1/2 inch thick. Per sq. inch, net. . . . . 1 1/2 c  
 3/8 inch thick. Per sq. inch, net. . . . . 1 3/4 c  
 1/4 inch thick. Per sq. inch, net. . . . . 2 1/2 c

Minimum charge \$1.00 per order.

### Panel Engraving

We can fill orders for engraving and lettering on any style panel, either one already drilled or on new panels just purchased. When ordering, please send layout showing exact lettering desired and location. Price, per letter or figures. . . . . \$0.04  
 Minimum charge per panel. . . . . 1.00

### Base Boards

Used extensively as support for parts used in set. Fastens to panel with use of our shelf brackets. Made of plywood. Will hold its shape well. Thickness, approximately 3/8 inch. Ship. wt., 1 to 4 lbs.

#### 6 1/2 inches wide

No.	Lth.	In. Each	No.	Lth.	In. Each
3B5638	6	18c	3B5647	20	36c
3B5639	9	20c	3B5648	23	39c
3B5642	11	24c	3B5649	25	44c
3B5643	13	29c	3B5641	27	52c
3B5646	17	31c	3B5653	29	59c

#### 9 inches wide

No.	Lth.	In. Each	No.	Lth.	In. Each
3B5651	17	35c	3B5649	25	53c
3B5652	20	45c	3B5654	29	62c
3B5644	23	60c			

### Lignole Radio Panels



A new specially treated wood panel that meets all panel requirements and is now used and recommended by leading radio engineers. Surpasses all others in beauty and richness of appearance. As a dielectric there is no better panel material obtainable. Extremely rigid, will not warp. Made of genuine walnut, finished either plain or two-tone with a darker border separated from the body of the panel by beautiful Marqueterie inlay. Panel thickness 3/4 inch. Av. ship. wt., 3 lbs.

### Rich Grain Walnut Face and Back

Size	List	Net
3B5800 7x18	\$2.52	\$1.64
3B5801 7x21	2.94	1.92
3B5802 7x24	3.36	2.20
3B5803 7x26	3.64	2.40
3B5804 7x28	3.92	2.54
3B5805 7x30	4.20	2.74

### Inlaid Walnut Two-Toned with Marqueterie Inlay

Size	List	Net
3B5806 7x18	\$6.52	\$4.11
3B5807 7x21	6.94	4.31
3B5808 7x24	7.36	4.53
3B5809 7x26	7.64	4.87
3B5810 7x28	7.92	5.05
3B5811 7x30	8.20	5.30

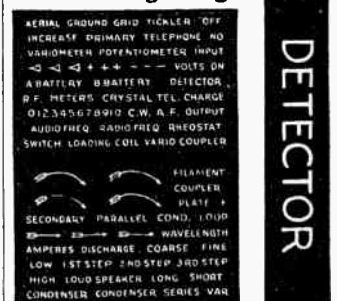
### VEE DEE Metal Panels



Beautifully finished in attractive walnut grain. Readily drilled with ordinary breast drill and may be used for all standard kits. Border in rich etched effect. Thickness about 1/4 inch. Av. ship. wt., 3 lbs.

Size	List	Each
3B5812 7x18	\$1.80	\$0.99
3B5813 7x21	2.10	1.17
3B5814 7x24	2.40	1.24
3B5815 7x26	2.60	1.48
3B5816 7x28	2.80	1.55
3B5817 7x30	3.00	1.67

### Panel Engravings



A complete set of transfers in neat white lettering for marking connections, dials, like real machine engravings, contrasts neatly on black walnut or mahogany panels. Plenty of titles for the largest set. Lettering at right is actual size. Ship. wt., 2 oz.

3B5701—Per set, list, 50c. Net. . . . . 19c

### Tait Brackets

Very strong, light weight. For sloping panels. Suitable for any size panel or baseboard. Makes neat, solid assembly. Ship. wt. 1 lb.



3B5722—List, \$2.00. Net. . . . . \$1.35



# MATHIESON LOOPS

## Master Console

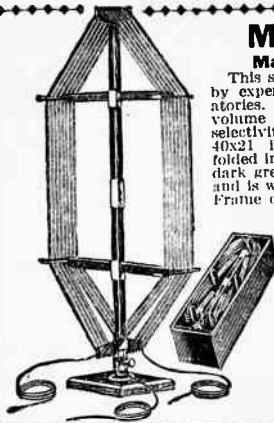
This size is used especially by experimenters and laboratories. Has very large volume with exceptional selectivity. Open it measures 40x21 inches, and can be folded into box 22x4x5. Has dark green silk-covered wire, and is wound in single turns. Frame of solid Walnut, with metal parts gold plated and Bakelite arms, also three taps. Revolves on its base. By turning it in the proper direction, it is possible in most instances to tune out objectional interference. It thus serves as a wave trap.

3B150—List, \$12.50.  
Net..... **\$7.35**

## Baby Console

Smaller in size than the Master Console. Takes less space to revolve, therefore it is an Ideal Loop for the home. Has good volume and is very directional. Built especially for Super-Heterodyne circuits. The same material used in its construction as the Master Type. Wound in single turns with 3 Taps. When set up measures 30 x 14 inches and folded 15x 4x5.

3B250—List, \$12.50.  
Net..... **\$7.35**



## The New VEE Coil Antenna

Especially Adapted to Victoreen Universal Circuit

Combines very attractive and ornamental appearance with all the requirements which provide the best in loop reception. Extremely directional, being quiet, on over 200 degrees. Wires widely spaced—low distributed capacity. Turns of equal length, thereby lessening interference. Low resistance which tends toward sharper tuning. One of the finest loops ever made.

Shipping wt., 5 lbs.  
3B64B0—List, \$15.00.  
Net..... **\$8.85**

## Bodine De Luxe Loops



Turning radius only 6 inches. Ideal for building into large consoles. Solid walnut, rubbed finish. Copper wires, stranded with large phosphor bronze wires. Low capacity 3 contact Jack in bakelite base. Base can be mounted on set if desired. Center tap. Loop height, 26 in. Shipping weight, 5 lbs.

3B3250—Standard for sets with .0005 condensers. List, \$12.00.  
Net..... **\$7.06**

3B3350—De Luxe for sets with .00035 condensers. List, \$12.00.  
Net..... **\$7.06**

## Qualitone Loop Collapsible

Woodwork is solid walnut, rubbed finish. All metal fittings heavily nickel-plated. Wire spacers are of best insulating material, eliminating losses. Finest grade silk braided stranded wire. Three long flexible leads with phone tips. Exclusive thumb adjustment always keeps wire taut and in line. Size erected, 34x16x3 3/4 inches. Packed, 4 1/2 x 7 1/4 inches. Shipping weight, 3 lbs.

3B2850—List, \$10.00.  
Net..... **\$5.88**

Qualitone De Luxe Model. Same size and characteristics, but more richly made and finished.  
3B6479—List, \$12.50.  
Net..... **\$7.35**



## Korach Loop

This loop has many exclusive features. Has 9 tap switch panel. Compass in base with dial for tuning. Collapsible. Size 3 1/2 feet wide, 4 1/2 feet long, 120 Mafect wire in loop. Mafectogany finish. Three hignaine most connections.

3B1750—List price, \$12.50.  
Net..... **\$7.35**

## JUNIOR MODEL

Same loop as above except without compass, and 2 1/2 feet wide, 3 1/2 high; 5 taps.

3B1650—List price, \$10.00.  
Net..... **\$5.88**



## Fiat Bank Wound Loop

New Model Fiat bank wound loop. Solid American walnut frame with natural lacquer finish; requires only small space; turns on a seven-inch radius. Has center tap. Extremely flexible stranded wire of highest efficiency. 13 1/2 inch wide, 30 inch high. Weight, 3 lbs.

## LABORATORY TEST

Self inductance, 0.00019 Henries; distributed capacity, 17.38 M.F.; natural wave length, 108 Meters; Resistance at 1,000,000 cycle, 8 Ohms; Wave band covered with .0005 M.F.; Condenser, 180 to 600 Meters. List price, \$12.50.  
3B750—Net..... **\$7.35**



## Frost Loop Plug and Jack

Easily mounted in cabinet or panel. Plug connected to loop leads. Supports loop when mounted in base. 3B254C—Per List, \$1.50.  
Net..... **95c**



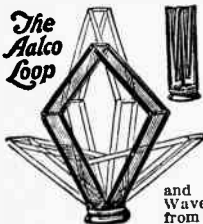
## Signal Cabinet Loop

Supported with bracket of cast aluminum which may be fastened to cabinet, console or other flat surface. Portable, folds like umbrella. Over 100 feet of silk-covered, non-kinkable wire on bakelite spreaders. Base and arms beautiful walnut finish. Special tap for superhets for tuning on shorter aerials.



3B1950—List, \$8.50.  
Net..... **\$4.99**

## The Alco Loop



List price, \$12.50.  
Net..... **\$7.35**

Order by article Number.

Alco loops are approved by the leading technical magazines and laboratories. Wave length range from 180 to 570 meters. Made of genuine walnut, all metal parts of nickel-plated brass. Height folded, 22 inches. Open, 30 inches. Weight, 4 1/2 lbs. Wound with 64 strands low resistance wire. Furnished in two types.

3B550—No. 5 for superheterodyne and circuits with .0005 condensers.  
3B859—Type No. 35 used with neutrodyne, tuned radio frequency, Brownling-Drake and other receivers using .00035 condensers.

## THE PHASATROL Balancing Device



A true balancing device for radio frequency amplifiers. Connects between tube plate and plate circuit of frequency coil or transformer. Very simple in installation and adjustment. Absolutely eliminates any tendency to r. f. oscillation or distortion. Adaptable to home made or factory built sets. Simplifies tuning and enables tubes to work at maximum efficiency. Constant over entire range.

3B4440—List, \$2.75.  
Net, each..... **\$1.65**

## McCall's Sure Tite Wire Connectors

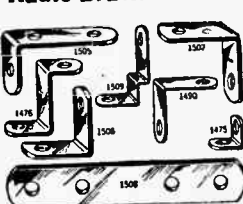
A style for every need. Locking screw or spring grip provides firm contact. Made of brass nicely nickelled.

- 1. 3B3953—No. 1 Wire Splice. List, each, 10c. Lots of 10..... \$0.65. Lots of 25..... 1.50
- 2. 3B3954—No. 2B Spade tip. List, each, 10c. Lots of 10..... \$0.65. Lots of 25..... 1.50
- 3. 3B3955—No. 3 Wire Splice. List, each, 10c. Lots of 10..... \$0.65. Lots of 25..... 1.50
- 4. 3B3956—No. 4 Spring connector takes cord tip or bus wire. List, each, 10c. Lots of 10..... \$0.65. Lots of 25..... 1.50
- 5. 3B3957—No. 5A Cord tip jack. Has screw and washer for mounting. List, each, 10c. Lots of 10..... \$0.65. Lots of 25..... 1.50

## Wire Connectors

Eliminates soldering. Make practically any kind of radio connections—two or three wires, straight or T connected. Positive, permanent contact. Nickel finish. 3B3940—Net per dozen..... **89c**

## Radio Brackets



Nickel finish. Brackets 3K5711, 3K5712, 3K5713, 3K5714, 3K5715, 3K5716, 3K5717, 3K5718 are light weight especially for mounting in g tubes and coils to panel or sub-base. 3K5718 is for mounting grid leaks. Other Brackets for mounting base board to panel. Ship. wt., 2 oz.

- 3B5711—(1475) 3/4x3/4x1/2..... Ten for 16c
- 3B5712—(1476) 3/4x3/4x1/2..... 20c
- 3B5713—(1480) 3/4x3/4x1/2..... 20c
- 3B5714—(1505) 3/4x3/4x1/2..... 16c
- 3B5715—(1508) 3/4x3/4x1/2..... 20c
- 3B5716—(1507) 1x1x3/4x1/2..... 16c
- 3B5717—(1508) 3/4x3/4x1/2..... 16c
- 3B5718—(1509) 3/4x3/4x1/2..... 20c

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

## Paragon Radio Ground

Reduces static and interference to a minimum—Increases volume and selectivity—eliminates aerial entirely if desired—Improves tone. Has copper welded solid wall cone—no solder—no mechanical connections—no destructive electrolysis possible. Interior filled with pure grain charcoal which absorbs and holds moisture. This insures good earth connection at all times, with lowest resistance. 20 ft. of heavy enameled wire is spot welded to the ground making a direct connection to set. 12 inches long. 4 inches wide at base. Shpg. wt., 15 lbs. Ship. wt., 7 lbs.

**3B2638—List, \$5.50. Net.....\$3.20**



## Spring Coil Antenna

**3B2607—List, \$1.25. Net..... 44c**  
Used as an indoor aerial gives excellent results. Consists of 100 feet of brass wire coiled into a spring about 2 feet long. Stretches out to nearly the full 100 feet. Shpg. wt., 2½ lbs.

## Stand-off Insulators

Made of porcelain, packed in cartons with 2 brass screws and leatherheads for use as a cushion under the screw heads. 4-in. size has additional brass holder, in 2 parts, put together as illustrated. Shpg. wt., 6 oz.

**3B2614—4-in. Net... 12c**

## Wall Mounting Insulators

**3B2603—With 3-in. long screw. Each... 4c**  
Dozen..... 42c

**3B2604—With 7-in. long screw. Each... 7c**  
Dozen..... 58c

For attaching lead-in or ground wire to posts or side of building. Shpg. wt., 4 oz.

## Porcelain Aerial Insulators

**3B2622—2½ in. long. Each..... 4c**  
Dozen..... 32c

**3B2623—4 in. long. Each..... 10c**  
Dozen..... 58c

**3B2624—5 in. long. Two for..... 17c**  
Shpg. wt., ½ lb.

## Glass Insulators

Special tempered glass unaffected by heat or cold or other atmospheric conditions. Approximately 4 in. long. Shpg. wt., 6 oz.

**3B2615—List, 20c. Net... 7c**  
10 for..... 60c

## Baby Insulators

**3B2602—Per box of 10..... 17c**  
For suspending wires inside of house. Rubber Insulator. Screw 1½ in. over all. Shpg. wt., 1 lb.

## Ekko Ground Clamp

**3B2605—List..... 25c**  
Net..... 15c

Makes positive contact even on rusty. For pipes up to 1½ inches. Shpg. wt., 6 oz.

## Nifty Ground Clamp

Made of tin, copper and brass. Adjustable from ½ to 1½ in. pipe diameters. The screws bore to a positive contact with pipe. Shpg. wt., 4 oz.

**3B2637—List..... 15c**  
Net. each..... 10c

## Bell Wire

**3B2613—50-ft. coll..... 25c**  
Size 18 copper wire insulated with paraffined cotton braid. Shpg. wt., ½ lb.



## Bare Copper Wire

Single Lots lots. ea. of 10 ca.

**3B2625—7 strands of No. 22...37c 36c**  
**3B2628—8 strands of No. 24...26c 25c**  
**3B2611—7 strands Light No. 24...24c 23c**  
**3B2629—No. 14 solid..... 34c 33c**

## Enameled Copper Wire

Highest quality enamel. Will not chip nor peel. 100 ft. coils.

**3B2610—7 strands of No. 24. Each Coll..... 35c**  
10 Lots. Each..... 33c

**3B3630—7 strands of No. 22. Each Coll..... 50c**  
10 Lots. Each..... 48c

## Lead-In Wire

Insulated copper wire. Used for lead-in and ground wire.

**3B2612—Black wire. Outer waterproof black cotton braid. Wire size No. 14. 50-ft. coils. Shpg. wt., 2 lbs. Each..... 48c**

## Flexible Insulated Wire Cord

Consists of flexible stranded size 18 copper wire with rubber sleeve insulation, over which is a heat tan colored cotton braid.

**3B2616—Single wire, 50 feet..... 42c**  
**3B2617—100 feet..... 74c**

## Lead-in Insulators

**3B2608—For 2½ in. or smaller walls. Less than ten..... 35c**  
**3B2609—For 8½ in. or smaller walls. Less than ten..... 56c**

Made of moulded hard rubber. Fits ½-1 inch hole. Securely locked by two adjustable nuts. Shpg. wt., 10 oz.

## Porcelain Strain Insulator

**3B2627—Dozen..... 65c**  
100..... \$4.80

Designed especially for insulating extra long aerials or guy wires. Shpg. wt., dozen, 4 lbs.

## Popular Panels

Panels are black Bakelite with gold decoration, white and gold engraving. Av. shpg. wt., 3 lbs.

**Browning-Drake 5 Tube List Net**

**3B6671—Front Panel, 7x21 in... \$5.50 \$3.19**  
Camfield Super-Selective Wine

**3B5696—Front 7x30 in..... \$7.50 \$4.36**  
**3B5697—Sub Panel, 10x29 in... 7.50 4.36**  
**Hammarlund Roberts Hi-Q 3B5672—Front 7x21 in... \$5.50 \$3.19**  
**3B5671—Front 7x26 in..... 7.25 4.22**  
**3B5672—Sub panel 10x25 in... 8.50 4.95**  
**Improved Nine-In-Line 3B5692—Front 7x26 in..... 6.50 3.78**  
**3B5693—Sub panel 8x24 in... 8.00 4.66**  
**Karas Two-Dial Equamatic 3B5785—Front 7x24 in... 6.00 3.49**  
**3B5786—Sub panel 8x23 in... 6.00 3.49**  
**Silver-Marshall Super Het 3B6673—Front 7x24 in..... 6.75 3.93**  
**3B6674—Sub Panel 10x23 in... 7.75 4.80**  
**Victoreen Universal, 8 Tube 3B6675—Front 7x26 in..... 6.50 3.78**  
**World's Record Super Eight 3B5789—Front 7x24 in... 6.00 3.49**  
**World's Record Super Ten 3B5690—Front 7x26 in..... 7.00 4.08**  
**3B5691—Sub panel 10x25 in... 8.00 4.58**

**Braided Ribbon Antenna**

A new flat braided ribbon antenna made of 25 strands of copper wire. 100 ft. coil of single wire strands—this gives maximum attractive and conductive surface for radio waves. For outdoor and indoor use. Shpg. wt. 3 lbs.

**3B2600—Per 100-ft. coll. List, \$1.50. Net..... 84c**



contains nearly ¼ mile of single wire strands—this gives maximum attractive and conductive surface for radio waves. For outdoor and indoor use. Shpg. wt. 3 lbs.

## Antenna Lead-in

**3B2601—Each, 7c**  
10 lots, 56c  
**3B2630—Muter lead-in R. M. A. standard. Impregnated tape. Each, 12c**  
10 lots, \$1.15  
**3B2635—Electrad lead-in. Highly impregnated tape, wide tinned copper strands. Soldered Fahnestock clips, 18 in. long. List, 40c. Net, each..... 24c**



## AERIAL KITS—BIGGEST VALUES

### Regular Kit

Contains—100 ft. coil special seven strand aerial wire; 25 ft. rubber covered lead-in wire; 1 standard approved lightning arrester; 2 porcelain insulators; 1 window lead-in strip; 1 quick adjusting ground clamp; 2 porcelain nail knobs; 2 galvanized screw eyes; 25 ft. cotton covered hook-up wire. No skimping in this kit. Shipping wt., 5½ lbs.

**3B2631—Complete Kit. List, \$1.75. Net..... 96c**

### Special Kit

Contains—100 ft. special 7 strand (about 7-22) copper aerial wire; 40 ft. rubber covered lead-in wire; 1 standard approved lightning arrester; 2 porcelain insulators; 1 window lead-in strip; 1 quick adjusting ground clamp; 3 porcelain nail knobs; 2 galvanized screw eyes; 25 ft. No. 18 flexible rubber covered hook-up wire. Shpg. wt., 6 lbs.

**3B2632—Complete Kit. List, \$2.75. Net..... \$1.58**

### De Luxe Kit

Contains 100 ft. 7-22 (seven strand) enamel aerial wire; 50 ft. rubber covered weather-proof lead-in wire; 1 in wire; 1 Brach Storm King lightning arrester; 2 glass insulators; 1 window lead-in strip; 1 Ekko ground clamp; 3 porcelain nail knobs; 3 galvanized screw eyes; 25 ft. No. 18 flexible rubber covered hook-up wire; 2 porcelain stand off screw eye insulators. Shpg. wt., 6½ lbs.

**3B2633—Complete Kit. List, \$4.50. Net..... \$2.28**





## Effarsee Antenna The Ideal Indoor Aerial

Looks like a magnificent tapestry, a 19-color lithograph presenting a reproduction of famous paintings. Takes the place of and eliminates outdoor antenna. Will give almost equal distance and volume. Claimed to eliminate 80 per cent of static. Greater selectivity and clearer tone reproduction. Less interference from neighboring electric wires. Has no lightning hazard. Waterproof. For an antenna. SIZE: 4 ft. wide, 7 ft. long. Shipping wt., 5 lbs.

**3B2776**—List price, \$9.50. Net, wholesale... **\$5.60**

**3B2775**—Small size, 6 ft. long, 3 ft. wide, plain (without picture). List, \$2.50. Net, wholesale... **\$1.47**

## The Cage OUTSIDE Antenna

Improves reception. Eliminates interference, makes tuning sharper and picks up weaker signals. May be mounted at any angle on roof top window ledge, against wall anywhere OUTSIDE. Consists of 100 feet enamel covered aerial wire in compact cage unit. 100% insulated with moulded bakelite frames. Comes complete including pole and bracket—nothing else to buy. Easy to install. Stands 6 ft. high when erected. Shipping wt., 5 lbs.

**3B2741**—List, \$10.00. Net... **\$5.85**



## Dubilier Light Socket Aerial

Eliminates outside aerial. Equipped with famous Dubilier condensers to insure quality. Approved by Underwriters. Shipping wt., 8 oz.

**3B2700**—List, \$1.50. Net... **89c**

## Echo Tape Indoor Aerial

Ideal for inside aerial installation. Extremely flexible and neat appearing.

**2B6363**—50-ft. roll. List, 60c. Net... **30c**

**2B6364**—100-ft. roll. List, 90c. Net... **54c**

## Aerial Booters



Sharpen selectivity. Increase volume and effect big saving on batteries.

and tubes. For any antenna. Shipping wt., 1 lb.

**3B2710**—Set of 6 booters. List, \$1.00. Net... **57c**



## Brach Arrester

For outdoor use. Attaches directly to antenna or lead-in wire. Binding post on bottom for ground wire. Enclosed vacuum cartridge insures maximum protection. \$100 insurance policy against lightning. Shipping wt., 1 lb.

**3B2720**—List, \$2.50. Net... **\$1.50**

## Muter Antenna Plug

Provides noiseless reception from any light socket. Replaces outdoor aerials. Ship. wt. 5 oz.

**3B2699**—List, 60c. Net, each... **36c**

## Jewel Lightning Arrester

Small and compact. Weather-proof porcelain case. Underwriters approved. Shipping wt., 1 lb.

**3B2718**—List, 45c. Net... **45c**

## Superior Arrester

Air gap type arrester. Porcelain case. Shipping wt., 10 oz. List, \$1.00. Net... **14c**

Made of genuine bakelite. For outdoor installation. Absolutely weatherproof and non grounding. \$100 insurance policy against lightning. Shipping wt., 1 lb.

**3B2722**—List, \$1.50. Net... **89c**

Made of genuine bakelite. Non air gap principle. For indoor installation. \$100.00 insurance policy against lightning. Shipping wt., 1 lb.

**3B2723**—List, \$1.00. Net... **59c**



## Brach Storm Guard

For indoor installation. \$100.00 insurance policy against lightning. Shipping wt., 1 lb.

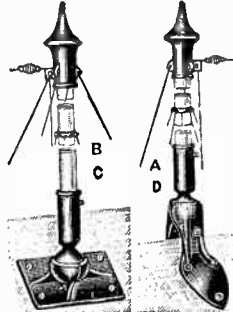
## Brach Storm King Arrester

## Morris Ball Aerial Kit



Improves reception. Ball 10 inches in diameter and has adjustable roof bracket. Aluminum surface. Shpg. wt., 5 lbs. **3B2743**—List, \$5.00. Net... **\$2.94**

## Antenna Mast Fittings



**3B2736**—Style A. }  
**3B2737**—Style B. }  
1-inch pipe size. Per set. Net... **\$1.76**

**3B2738**—Style D. }  
**3B2739**—Style C. }  
½-inch pipe size. Per set. Net... **\$1.03**

Price quoted is for one set of fittings. Two sets are required for each aerial.

Two styles: A—to fit any pitch of gable roof. B—to fit flat surface. Adjustable from any angle from vertical to horizontal. No pipe included. Shipping wt., 5 lbs.

## Collapsible Steel Aerial Mast

Made of tubular steel sections telescoping one within the other, for convenience in handling and erecting. Clamp locks mast at length desired. Fits any roof of any slope. **3B2733**—Extended length 7 ft. Collapsed length 4 ft. Ship. wt., 8 lbs. List, \$2.50. Net... **\$1.45**

**3B2734**—Extended length 10 ft. Collapsed length 4 ft. Ship. wt., 10 lbs. List, \$3.50. Net... **\$2.10**

## Porcelain Base Switches



Copper contacts and blades. Shpg. wt., 10 oz. **3B2714**—Single pole, single throw. Each... **13c**

**3B2715**—Single pole, double throw. Each... **21c**

**3B2716**—Double pole, double throw. Each... **30c**

**3B2717**—Double pole, single throw. Each... **23c**

## Fahnestock Antenna Connector

Makes secure connection on aerial wire without soldering. Shipping wt., 2 oz. **3B2713**—Each dozen... **95c**

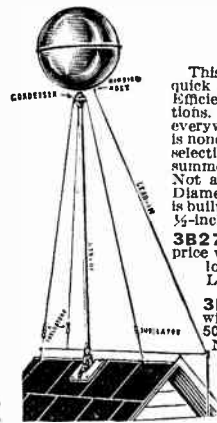
## Antenna Spring Tightener



Spring with 2 porcelain strain insulators on either end. Takes up slack in aerial. Shipping wt., 1 ½ lbs. **3B2702**—Each... **25c**

Ten for... **\$1.65**

## Super-Ball Antenna



This great new invention is making quick money for up-to-date dealers. Efficient with any set under all conditions. Makes friends and repeat sales everywhere. Receives all wave lengths, is nondirectional, clarifies tone, increases selectivity, minimizes static, improves summer reception. Sheds ice and snow. Not affected by heat. Easy to install. Diameter of ball 10 inches. Condenser is built into ball. No roof needed. Uses ½-inch iron pipe. Shipping wt., 4 lbs. **3B2725**—Retail price, \$10.00. Net price wholesale, single lots... **\$6.53**

Lots of 10... **\$5.88**

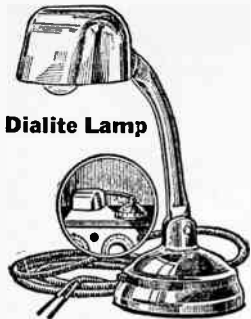
**3B2726**—Base to hold pipe used with antenna to roof. Retail, 50c. Net price... **34c**

## Super-Ball Accessory Kit

Consists of 50 ft. lead-in R. C. wire No. 14, 50 ft. Copper Guide wire, Ground Clamp Brach lead-in, nail knobs, screw eyes and eyes and 10 ft. of pipe. Shpg. wt., 15 lbs. **3B2727**—Each... **\$2.86**



0 lots... **\$2.65**



### Dialite Lamp

**3B2545**—  
Net, each..... **\$1.18**

Supplies just the right amount of illumination for easy dial adjustment and shields the eyes from direct rays. Very handy in darkened rooms. Connects to 6 volt battery on set. Price includes bulb and 3-foot silk connecting cord. Switch for turning on or off in bases. Weighted base. Can be placed on any set. Attractive gold finish. This is a real live item. Every set owner wants one. Being portable, with ample wire connection it makes an ideal trouble finder. Shpg. wt., 5 lbs.

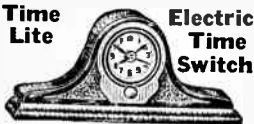
### Vimco Radio Light



This is a very beautiful light for use on the radio. It sets on top of the cabinet and throws a very carefully deflected light on the dials where it is needed most. Makes tuning easy and eliminates the strain of the eyes when the set is in a dark corner. The light is 2 1/2 in. high by 7/8 in. from front to back. Adjustable shade. Candelabra socket base of white metal heavily weighted to prevent tipping. 10 feet of silk cord and attachment plug for 110 volt lighting current. All bronze finish. Shipping wt., 3 lbs.

**3B2584**—List, \$3.85. Net..... **\$2.24**

### Time Lite



A splendid quality, beautiful clock fitted with an electric switch device which shuts off or turns on your radio set any moment you desire. No harm if you forget to shut off your set if Time Lite is on the job. Pretty bronze finish case with 30-hour reliable movement. Two radio regulator hands, one for turning on set, one for shutting off. Easily connected, only one wire affected. Uses no current.

**3B2548**—List price, \$8.50. Net price..... **\$5.95**



visible in the dark. The barrel is 1 1/2 inches deep.

**3B2546**—List price, \$12.00. Net..... **\$9.00**

### Set of Bearings for Tuning Coils

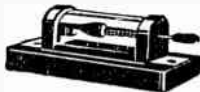
Self-aligning assure positive electrical contact. Set includes two telephone bearings with front and rear shafts. Adjustable to meet practically any size conditions.

**3B2208**—List price, set, 75c. Net..... **50c**

**Microphone Button**  
**3B3807**—Retail price, \$1.00. Net..... **71c**

Carbon granule type. Can be applied to any vibrating surface or diaphragm. Used for broadcast modulation; for telephone and repair work; for telephones; for stethoscopes, amplifiers, etc. Offers every Radio fan the means of building his own powerful speech amplifier. Instruction sheet included. Shpg. wt., 4 oz.

### Zincite and Tellurium Detector



**3B3811**—List, 50c. **33c**

An efficient detector. Rectification is obtained by contact of two super sensitive crystals. No cat whiskers used. Especially recommended with the use of tubes for reflex or other types of circuits. Shpg. wt., 6 oz.

### Brownie Vernier Detector

**3B3814**—List, \$2.00. Net... **\$1.40**

Provides perfect reflex or crystal reception. A combination permanent fixed and semi-adjustable detector. Provides maximum rectification and pure tone. Simple to adjust. Shpg. wt., 4 oz.

### Brownie Crystal

**3B3815**—List price, 75c. Net..... **52c**

For use with Brownie detector. Entire surface aligns with sensitive spots. Shpg. wt., 2 oz.

### Grewol Crystal Detector

**3B3808**—List, \$1.50. Net..... **90c**

Has permanent adjustments carefully set and tested. Very sensitive. Always ready for use. Ideal for reflex circuits. Mounts on panel in very little space. Dust-proof glass cover. Shpg. wt., 4 oz.

### Electric Panel Clock

Operates from Set's Batteries. An electrically operated clock that may be incorporated in a radio set and runs on either dry cell or storage batteries. The clock consists of two units which are assembled in a strong die cast case. The amount of current used is negligible and the clock face is 2 1/2 inches in diameter. The dial has a black background with white figures and hands. Luminous dial

### Crystal Detector

#### Build It Yourself

Here is the ideal set for the beginner with limited means who lives within a short radius of a broadcast station. It gives the builder good entertainment at small cost and gives him an insight into the fundamentals of radio for the growing boy who evinces some interest in radio. Kit consists of tuning coil, high grade crystal detector, high quality pair of headphones, instructions, etc. Reliable distance about 15 miles. Ship. wt., 4 lbs. **\$2.60**

**3B6425**—List, \$5.00. Net..... **\$1.30**

### Crystal Detector



**3B3806**—  
Each..... **28c**

Crystal enclosed in glass case. Cat whisker spring controlled by rod through composition top. Blinding post connections. No crystal included. Shpg. wt., 5 oz.

### Broadcast Tested Crystals

Mounted. Good commercial quality crystals give results satisfactory for the ordinary broadcast listener. Not recommended for reflex circuits. Shpg. wt., 2 oz.

**3B3818**—Silicon. **10c**

**3B3819**—Galena. **60c**

### Carborundum Detector

**3B3816**—List, \$1.50. Net..... **96c**

A detector using specially selected carborundum crystal sealed under pressure. This insures permanent solid contact and dependable operation, guaranteed not to burn out. Does not lose sensitivity. Gives more volume than other crystals. Best for reflex circuits. Shpg. wt., 3 oz.

### Carborundum Stabilizing Detector Unit

A highly efficient stabilizing device. By adjusting detector resistance the circuit, it absolutely controls self-oscillation in r.f. tubes. Permits operation at peak of resonance—gives greater sensitivity, increased selectivity, cleaner tones. A small flash-light battery is all it needs. Complete with Carborundum Detector. Shpg. wt., 2 oz.

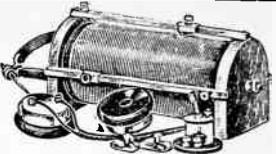
**3B3817**—List price, \$3.50. Net (without battery)..... **\$2.22**

### Pandora Crystal Set

Nationally known for years, the Pandora crystal set is efficient, compact and distinctive appearing. Simple adjustment. Covers entire broadcast band, 20 to 30-mile range, longer for super-power stations. Crystal reception has perfect tone quality, no distortion. Shpg. wt., 2 lbs.

**3B3833**—List price, \$3.50. Net..... **\$3.89**

**3B3834**—Crystal set complete with aerial and ground equipment, quality head phones. Shpg. wt., 5 lbs.



### Pyratek Fixed Detector



**3B3810**—List, \$1.25. **85c**

Permanent stability with great sensitivity. Especially recommended for reflex. Stands high plate voltage. Has mounting clips. Shpg. wt., 4 ounces.

### Meter Tested Crystals

Produce loud and clear signals. These are exceptionally fine quality crystals. Laboratory tested on sensitive meters. Shpg. wt., 2 oz.

**3B3820**—Silicon. **39c**

**3B3821**—Galena. **60c**

### Du-tec

**3B3822**—List price, 30c. Net price..... **18c**

A du-bufler chemically made radio rectifier. Replace crystals. Every point sensitive and remains so. No adjustments necessary. Mounted in cup ready for use. Shpg. wt., 2 oz.

**3B3823**—Genuine million point crystal. Sensitive all over. Mounted. **21c**

**3B3824**—Meteoric. A synthetic crystal mounted in metal cup. Very sensitive. Each..... **12c**

**3B3826**—Silver clay crystal, a fused crystal of great volume and clarity. Each..... **17c**

### Test Buzzer

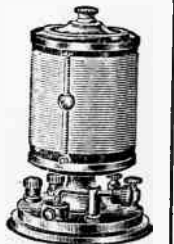
**3B3828**—  
Each..... **85c**

Each case made of radio finished nickel. Polished nickel finish. Diam., 2 1/2 in. Shpg. wt., 4 oz.

### Test Buzzer Push Button

**3B3829**—  
Each..... **21c**

A small compact button with pearl center. Field in 1/2 inch hole by small spring clips. Shpg. wt., 2 oz.





# Jewell Radio Meters

## Pattern 135



A compact instrument with 2 in. case and flange diam. 2 1/2 in. Finest coil type movement, fully jeweled. Black scale on silver background. Shp. wt., 2 lbs.

3B1900—0-5 volts.....	List \$7.00	Net \$4.46
3B1801—0-8 volts.....	List 7.00	Net 4.66
3B1902—0-100 volts.....	List 7.50	Net 4.79
3B1903—0-3 amps.....	List 7.00	Net 4.46
3B1904—0-50 milliamps.....	List 7.00	Net 4.46
3B1905—0-10-100 volts.....	List 8.00	Net 5.10
3B1906—0-7 1/2-150 volts.....	List 8.50	Net 5.42

## Pattern 135-B (with Push Button)

3B2008—0-5-100 volts.....	List \$9.00	Net \$5.74
3B2009—0-7 1/2-150 volts.....	List 9.00	Net 5.74

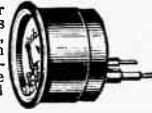
## Switch Type 140

Double range, 2 inch body, 2 1/2 inch flange. Shipping wt., 2 lbs.

3B1986—0-7 1/2-150 volts.....	List \$9.50	Net \$6.06
3B1987—0-4-160 volts.....	List 9.50	Net 6.06

## Pin-Jack Pattern 135-A

2-inch instrument for plugging into jacks on Radiola, Victor, Brunswick and Bosch sets for filament voltage only. Adjustable plus. Black enamel finish.



3B1912—0-5 volts.....	List \$7.50	Net \$4.78
3B2010—0-7 volts.....	List 7.50	Net 4.78

## Portable No. 135-C

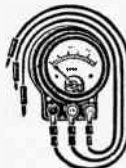
A beautiful portable for the home. Handsome bakelite case. Furnished with two phone tip leads. Shp. wt., 4 lbs.



3B2011—0-75-150 volts.....	List \$10.00	Net \$6.37
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## No. 98 Portable Voltmeter

Designed to make battery testing easy. Supplied with three 18 in. colored leads. Two scales, 0-10, 10-50. Shp. wt., 6 lbs. price \$13.50. Net, \$8.62



## No. 57

Similar to No. 98 except for higher range. Particularly useful for general testing. Two phone tip leads furnished. Shp. wt., 6 lbs.

3B2015—0-7 1/2-150 volts.....	List \$12.50	Net \$7.96
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## No. 116 Eliminator Voltmeter

For checking "B" eliminator voltages. Similar to No. 98 except that its internal resistance is 800 ohms per volt. Range 0-50-250.

3B2016—List, \$25.00. Net, \$19.35
------------------------------------

## No. 55 Combination Meters

Self contained switch to change scales. Checks A and B voltages. Black enameled finish. Nickered switch knob. For direct current only. Helps to prolong filament life of tube. The best insurance for tubes that can be obtained. Requires 2 1/2 inch mounting hole. Shp. wt., 2 lbs.



3B1931—3 Circuit 0-8 volts.....	List \$10.00	Net \$7.35
3B1932—0-10-100 volts.....	List 10.00	Net 7.35
3B1933—0-5-150 volts.....	List 10.00	Net 7.35
3B1934—0-8-80-160 volts.....	List \$12.50	Net \$9.15

## Sterling D. C. Panel Meters

High grade. Inexpensive meters for checking the voltage or current in any receiving circuit save their cost in the protection of valuable apparatus. Narrow flange panel type with flange etched dials.



Nickel-plated rim. Body 2 in. diam. Rim 2 1/2 in. Shp. wt., 1 1/2 lbs.

3B1941—0-3 amp.....	List \$3.00	Net \$1.79
3B1942—0-8 volts.....	List 3.00	Net 1.79
3B1943—0-150 volts.....	List 3.50	Net 1.79
3B1944—0-6 volts.....	List 3.00	Net 1.79
3B1945—0-13 milliamps.....	List 3.00	Net 1.79
3B1946—0-30 milliamps.....	List 3.00	Net 1.79
3B1930—0-7 1/2-150 with push button.....	List 5.00	Net 2.95

## Sterling Pin-Jack Voltmeter

High resistance voltmeter for plugging into Radiolas No. 25 and No. 28 and similar sets. Full nickel finish, silver dial, black figures. Shp. wt., 1 1/2 lbs.

3B1935—0-6 volts.....	List \$6.00	Net \$3.89
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## Readrite Panel Meters

Well made meters that check your circuits accurately. Case diam. 2 1/2 in. Rim 2 3/4 in. Finish is full nickel. Dials are metal silvered. Back clamps furnished. Shp. wt., 1 1/2 lbs.



3B1958—0-8 volts.....	List \$1.00	Net \$0.60
3B1959—0-6 volts.....	List 1.00	Net 0.60
3B1960—0-100 volts.....	List 1.25	Net 0.60
3B1961—0-10 amps.....	List 1.00	Net 0.60
3B1962—0-10 millamp.....	List 1.75	Net 1.05
3B1964—0-25 millamp.....	List 1.00	Net 0.60
3B1965—0-8-100 volts.....	List 1.75	Net 1.05

A. C. Types.....	List \$1.50	Net \$0.90
3B1938—0-8 volts.....	List 1.50	Net 0.90
3B1939—0-10 volts.....	List 1.50	Net 0.90

## Jewell Meters No. 53

For laboratory and general use. Flange type. 2 1/2 inch body. Finished in black enamel. Shp. wt., 3 lbs.



3B1946—0-5 volts.....	List \$7.50	Net \$4.66
3B1947—0-10 volts.....	List 7.50	Net 4.66
3B1948—0-150 volts.....	List 9.50	Net 5.89
3B1949—0-1 1/2 amps.....	List 7.50	Net 4.66
3B1950—0-3 amps.....	List 7.50	Net 4.66
3B1951—0-2-3-5 amps.....	List 7.50	Net 4.66
3B1952—0-10 milliamps.....	List 7.50	Net 4.66
3B1953—0-50 milliamps.....	List 7.50	Net 4.66
3B1954—0-100 milliamps.....	List 7.50	Net 4.66

## "B" Eliminator Voltage Tester

For testing voltage output of all "B" Eliminators. Range 0-300 volts. Portable type. Accurately hand calibrated and handsome finished with silver. Shipping wt., 6 oz.



2B7760—List, \$5.00. Net, each.....	\$3.00
Same as above but calibrated 0-500 volts.	
2B7761—List, \$6.00. Net, each.....	\$3.60
For testing A. C. current supply line 0-150 volts.	
2B7762—List, \$5.00. Net, each.....	\$3.00

## Hoyt Peep-Hole Meter

Designed for use in panels. Fits 1/2-inch hole. Nickel finished. Front 1 1/2 inches diameter.



3B1914—Ammeter 0 to 1.2 amperes.	
3B1915—Voltmeter. 0 to 6 volts.	
3B1916—Voltmeter. 0 to 10 volts.	List, \$3.00. Net, \$2.10

Transmitting Meters See Page 85

# Weston Radio Meters

## The Standard of the World

### Model 506

Designed especially for Radio Panel Service. 2 inches in diameter with narrow flange diameter 2 1/4 in. Finished in dull Japan. High internal resistance making battery drain negligible.



3B1979—0-5 volts.....	List \$7.00	Net \$4.46
3B1980—0-8 volts.....	List 7.00	Net 4.46
3B1981—0-150 volts.....	List 7.00	Net 4.46
3B1984—0-3 amperes.....	List 7.00	Net 4.46
3B1985—0-50 milliamps.....	List 7.00	Net 4.46
3B1982—0-7 1/2-150 volts.....	List \$9.00	Net \$5.88
3B1983—0-7 1/2-150 volts.....	List 9.00	Net 5.88

### Model 301

Direct current instruments of flange type. Flange diam. 3 1/4 in., body 2 1/2 in.

3B1972—0-5 volts.....	List \$8.00	Net \$5.00
3B1973—0-8 volts.....	List 8.00	Net 5.00
3B1974—0-100 volts.....	List 11.00	Net 6.09
3B1977—0-3 amps.....	List 8.00	Net 5.00
3B1978—0-50 milliamps.....	List 8.00	Net 5.00

### Model 506 Pin-Jack Voltmeter



Plugs into new Radiola, Victor, Brunswick and Bosch sets, shows filament voltage. Resistance 125 ohms per volt. Adjustable pin terminals. Shp. wt., 1 lb.

3B1988—0-5 volts.....	List \$7.50	Net \$4.88
3B1989—0-7 volts.....	List 7.50	Net 4.88

### Pin-Jack Voltmeter and High Resistance Stand

Consists of Pin-Jack Voltmeter and high resistance stand into which it plugs for reading "B" battery voltage.

3B1990—0-4-160 volts.....	List \$10.00	Net \$6.37
3B1991—0-8-160 volts.....	List 10.00	Net 6.37

### Eliminator Voltmeter



A double range meter with resistance of 1,000 ohms per volt for testing battery substitutes. Pair of 30 inch cables supplied.

3B2018—0-8-200 volts.....	List \$28.00	Net \$20.58
3B1992—0-50-250 volts.....	List 28.00	Net 20.58

### New A C Voltmeters

A new meter from Weston. No. 517 matches the Model No. 476 matches the 301 model. Exceptionally high resistance, low power consumption, excellent damping. For use on any commercial frequency. Shp. wt., 2 lbs.

Model 517 matches Model 506. For A. C. voltage only. 2 in. diam.

3B1993—0-1.5 volts.....	List \$8.00	Net \$5.00
3B1994—0-10 volts.....	List 8.00	Net 5.00
3B1995—0-150 volts.....	List 10.00	Net 6.09

Model 476—matches Model 301. 3 1/4 in. diam.

3B1996—0-1.5 volts.....	List \$8.00	Net \$5.00
3B1997—0-10 volts.....	List 8.00	Net 5.00
3B1998—0-150 volts.....	List 10.00	Net 6.09

## American Beauty Soldering Iron

A famous brand that has stood the test of time. Entirely free from hazards caused by flame, combustion, explosions, acid fumes and injury to the eyes. The first two sizes are for light and medium work, the third for heavier work. Thousands are in use on steady factory production work.



	Watts	Diam. of Tip	Length	Weight	List	Net
3B4002	—100	1/4 in.	12 1/4 in.	18 oz.	\$ 8.00	\$5-33
3B4003	—200	3/8 in.	13 in.	26 oz.	9.25	6-27
3B4004	—300	1/2 in.	13 3/4 in.	42 oz.	11.60	7-60
3B4005	—Extra Tips	3/4 in. size.	List.	\$0.60	Net	.45
3B4006	—Extra Tips	1/2 in. size.	List.	1.20	Net	.90
3B4007	—Extra Tips	3/8 in. size.	List.	1.90	Net	1.43

### Coil Winders



Winds any size or type uniform self-supporting coil. Turn ratio may be varied, placing primary between secondary windings or using two separate windings for grid and plate circuit, etc. Makes perfect 50 turn coil in less than minute. Shpg. wt., 3 lbs.

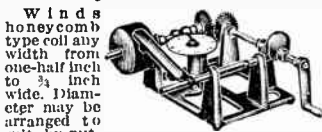
3B4050—Each.....\$7.50



### Coil Winder

3B4075—\$3.68  
Net, each.  
For winding coils on cylinders of bakelite or cardboard. Adjustable disks automatically center the cylinders. Spring on spindle prevents coil from unwinding or releasing tension. Fastens to any table. Overall length, 14 1/2 inches. Shpg. wt., 4 lbs.

### Honeycomb Coil Winder



Winds honeycomb type coil any width from one-half inch to 3/4 inch wide. Diameter may be arranged to suit, by putting various sizes of wooden spools on the winding spindle. Recorder equipped with an adjustable pointer for counting number of turns. Shpg. wt., 4 lbs.

3B3975—Net.....\$4.75

### Meter Hole Adjustable Boring Tool

Cuts large holes in bakelite or hard rubber panels for meters, tube sockets, bezels, etc. Adjustable from 3/8 in. to 3 in. diam. Fits any carpenter's brace. Shpg. wt., 8 oz.

3B3919—List.....44c  
65c. Net.....

### Stevens Panel Cutters

Clean cut, true bezel holes through rubber or bakelite panels. Made to fit standard carpenter's brace. Shpg. wt., 6 oz.

	List price	Net
3B3934—3/4 in.	\$0.75	\$0.50
3B3935—1 in.	.85	.56
3B3936—1 1/2 in.	1.00	.66

### Stevens Reamer

Produces true round hole in metal, bakelite, hard rubber, wood, etc., without digging in or chattering. Shpg. wt., 12 oz.

3B3931—Size 1/8 to 3/4-inch.  
List Price, \$2.00.  
Net.....\$1.33

### "Press-to-Feed" Solder Iron

Easy to solder with this new iron. Wire solder is held in magazine. Press of the trigger feeds as much solder as is wanted to point. Leaves other hand free to handle work—speeds soldering. Shpg. wt., 2 1/2 lbs.

3B3951—List, \$3.75.  
Net.....\$2.48

### Rosin Core Solder



Requires no flux because rosin has been moulded into the core of solder wire. Best for fine radio connections and electrical work. Shpg. wt., 6 oz.

3B4013—4 ounces. List 25c.  
Net.....17c

### Wire Solder

A composition of half tin and half lead. Diameter 1/16 inch. Very convenient for soldering in close quarters. Ideal for radio work. Shpg. wt., 11 oz.

3B4014—8 ounces.....28c

### Solderall

A combination solder and flux in handy paste form. A little Solderall on the connection and the heat of a match or iron will form a perfect connection.

3B4015—List, 25c. Net.....16c

### Solder Paste

A non-corrosive soldering flux. Makes possible a secure mechanical and perfect electrical connection.

3B4016—2 oz. Can. Net.....10c

### Stevens Adjustable Panel Cutter

An excellent tool for cutting holes in panels. Quickly adjustable from 1 1/4 to 6 inches. Diameter of shank is 3/8-inch for convenient brace or machine use. Shpg. wt., 10 oz.

3B3910—List Price, \$1.75.  
Net.....\$1.14

### Wizard Coil Winder

Winds any style coil with silk enamel or cotton wire of any thickness from 3/8 to 4 1/2 inch diameter up to 19 inches in length. Adjustable automatic feeder and spacer. Ratchet gear prevents wire loosening. Insures uniform coils of finest workmanship. Coils cannot come undone once they have been anchored. Gives that desirable factory touch to the coils. Shpg. wt., 3 lbs.

3B3950—List price, \$7.50.  
Net.....\$5.00

### Simplex Alcohol Torch

Dependable for real work. Operates its own pressure. Operates 2 hours on one filling of denatured alcohol. Heat over 2,000 deg. Fahn. Leak proof. Easily cleaned. Will not clog. 2 in. barrel. 7 in. high. Shpg. wt., 12 oz.

3B3959—List.....\$1.95  
\$3.03. Net.....

### Automatic Blow Torch

3B4000—List price, \$1.50. Net.....75c  
Burns denatured alcohol. Automatically generates pointed flame in few seconds. Easy to solder joints in hard places. Lights with match. Burns 20 minutes on one filling. 5 1/2 inches high. 1/4-inch diameter cylinder. Shpg. wt., 12 oz.

### Super Blow Torch

Burns denatured alcohol. Blowing on rubber tube produces a hot pointed flame. Lights with a match. Burns 10 minutes on one filling. Easy to solder joints in hard places. 3 in. high. 1/4-inch cylinder. Shpg. wt., 6 oz.

3B4001—List price, \$3c  
50c. Net.....35c

### Our Special Electric Solder Iron



Medium weight and perfectly balanced. Handle of black ebonized wood. Guaranteed 1,000 hours. Ventilated shank. Full nickel plated. 6-foot asbestos cord. 3/8-inch and 1/2-inch interchangeable tips. Separable plug. Nichrome heating element. For 110 to 120 volt current. Shpg. wt., 2 lbs.

3B4012—List price, \$2.50.  
Net.....\$1.15

### Radio-Electric Soldering Outfit

Widely used all day long in hundreds of industrial plants, proving their ruggedness and dependability. For use on 105 to 115 volt current. 6-foot cord and attaching plug. Shpg. wt., 2 lbs.

	List	Net
3B4010—3/8-inch point.	\$3.50	\$2.34
3B4011—1/2-inch heavy point.	5.00	3.35

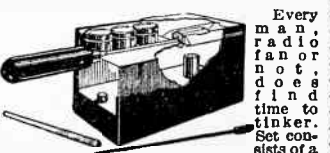
### Self Heating Soldering Outfit

Self-heating. One filling of 2 ounces of gasoline is enough to keep copper at correct soldering temperature for about 20 minutes. Extensively used for aerial soldering. Flux and small piece of solder included. Shpg. wt., 3 lbs.

3B4008—List, \$3.00. Net.....\$2.10

### Ready Hot Soldering Iron

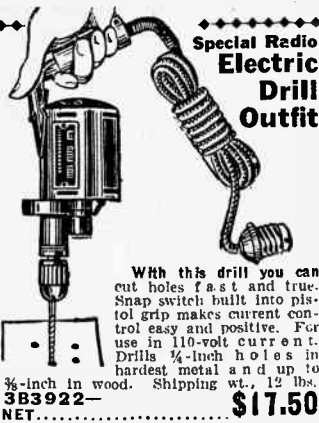
Safe, Non-Explosive and Portable



Every man, radio fan, not does find time to tinker. Set consists of metal stove, burning alcohol as fuel; two soldering irons, one for heavy duty work, the other for the finer radio soldering; a box of soldering flux and sea ammonia abrasive tape; two generous sticks of solder; and complete instructions. Shpg. wt., 2 1/2 lbs.

3B4025—Complete.....69c





**Special Radio Electric Drill Outfit**

With this drill you can cut holes fast and true. Snap switch built into pistol grip makes current control easy and positive. For use in 110-volt current. Drills  $\frac{1}{4}$ -inch holes in hardest metal and up to  $\frac{3}{8}$ -inch in wood. Shipping wt., 12 lbs.

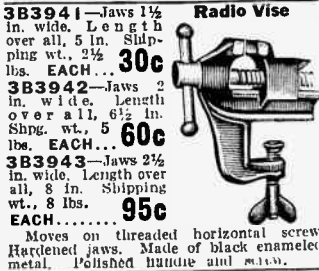
**3B3922—\$17.50**  
NET.....



**Stevens Radio Screw Clamp**

Holds screws for filing down to odd lengths required in radio. Jaws have 3 threaded depressions for holding Nos. 6, 8, 10 screws, 32 thread. Made of forged steel. The hardened jaws may be used as rethreading dies. Shpg. wt., 2 lbs.

**3B3920—98c**  
NET.....



**Radio Vise**

**3B3941**—Jaws  $1\frac{1}{2}$  in. wide. Length over all, 5 in. Shipping wt., 2 $\frac{1}{2}$  lbs. EACH..... **30c**

**3B3942**—Jaws 2 in. wide. Length over all, 6 $\frac{1}{2}$  in. Shpg. wt., 5 lbs. EACH..... **60c**

**3B3943**—Jaws 2 $\frac{1}{2}$  in. wide. Length over all, 8 in. Shipping wt., 8 lbs. EACH..... **95c**

Moves on threaded horizontal screw. Hardened jaws. Made of black enameled metal. Polished handle and pins.



**Scriber** **3B3933**—List, 25c. NET..... **17c**

Needle point on each end for marking hairline. Will go into smallest screw hole. Finest steel fully tempered. Shp. wt., 6 oz.



**Stevens Oversize Reamer**

**3B3911**—List Price, 75c. NET..... **50c**

For general utility purposes in radio wherever reaming is required.  $\frac{1}{4}$ -in. size.



**Scroll Saw with Blade**

Cuts bakelite, metal or wood. Blades 6 inches long. Top of frame, 4 $\frac{3}{4}$  inches from blade. Blade revolves to any position for sawing. Complete with six blades.

**3B3937**—List Price, \$1.00. NET. **70c**

**3B3938**—Extra Blades. **19c**  
6 FOR.....



**Tap and Die Set**

**3B3929**—List, \$3.50. NET, **\$5.60**

Contains taps and dies to cut 4-36, 6-32, 8-32, 10-24 and 14-20. Each set also includes 6 $\frac{1}{2}$ -in. long stock and adjustable tap wrench. Shpg. wt., 3 lbs.



**Hand Drill**

**3B3926**—List, \$1.50. NET..... **\$1.15**

Hold drills up to  $\frac{1}{4}$ -inch; will drill up to  $\frac{7}{16}$ -inch in bakelite with  $\frac{1}{4}$ -inch shanked drills. Handle of polished wood hollowed and with screw top, to hold drills. Shipping weight, 2 $\frac{1}{2}$  lbs.



**Radio Drills**

**3B3927**—Set of four..... **29c**

Four drills—4-36, 6-32, 8-32 and 10-32. Shipping weight, 6 oz.

**3B3928**—Set of seven..... **49c**

Seven drills, sizes  $\frac{1}{16}$ ,  $\frac{3}{32}$ ,  $\frac{1}{8}$ ,  $\frac{3}{16}$ ,  $\frac{1}{4}$ ,  $\frac{5}{16}$ ,  $\frac{3}{8}$ . Handy radio sizes. Shipping weight, 10 oz.



**Nut Forceps**

**3B3912**—List, 60c. NET..... **38c**

Gives a perfect grip on all sizes knurled hex. or square nuts. Drop forged steel. Nicely finished. Shpg. wt., 12 oz.



**Crow Bill Pliers**

**3B3914**—List, 50c. NET..... **32c**

Long, thin, semi-round nose for close jobs that other pliers could not reach. Perfect eyelets easily formed. Made of drop forged steel nicely finished. Length, 6 $\frac{1}{2}$  inches. Shpg. wt., 12 oz.



**Radio Electric Pliers**

**3B3913**—List, 50c. NET..... **35c**

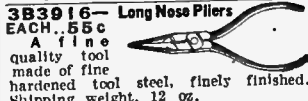
Long thin nose for work in limited space. Wire cutter between jaws. Made of drop forged steel nicely finished. Shipping weight, 12 oz.



**Diagonal Jaw Nippers**

**3B3915**—EACH..... **45c**

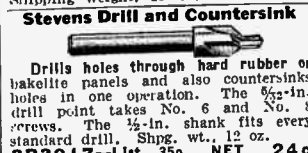
Made of hardened tool steel. Cuts wire clean in tight places. A very high grade tool. Fine polished finish. Shpg. wt., 12 oz.



**Long Nose Pliers**

**3B3916**—EACH..... **55c**

A fine quality tool made of fine hardened tool steel, finely finished. Shipping weight, 12 oz.



**Stevens Drill and Countersink**

Drills holes through hard rubber or bakelite panels and also countersinks holes in one operation. The  $\frac{5}{16}$ -in. drill point takes No. 6 and No. 8 screws. The  $\frac{1}{2}$ -in. shank fits every standard drill. Shpg. wt., 12 oz.

**3B3917**—List, 35c. NET..... **24c**



**Socket Wrench Set**

**3B3918**—List, 75c. NET..... **50c**

Five sockets in sizes  $\frac{1}{8}$ ,  $\frac{3}{16}$ ,  $\frac{1}{4}$ ,  $\frac{5}{16}$ ,  $\frac{3}{8}$  inch. Sockets snap on shank quickly. Shipping weight, 12 oz.



**Hexagon Nut Wrenches**

**3B3908**—Set of three..... **39c**

Fit  $\frac{1}{4}$ ,  $\frac{5}{16}$  and  $\frac{3}{8}$ -inch hexagon nuts. Hollow stems take projecting screws. Reach nuts in limited spaces. Wood handle. Strong metal stems. Shipping weight, 1 lb.



**Countersink**

**3B3907**—List, 25c. NET..... **15c**

For shaping holes in hard rubber, bakelite, fibre, wood, etc., to fit heads of flathead screws. Shpg. wt., 6 oz.



**Goodell-Pratt Electric Punch Drills**

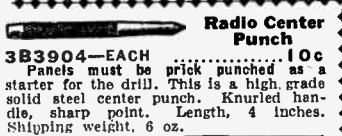
For Drilling in Soft and Hard Woods, Soft Metals, and Materials of similar character.

These drills work with lightning rapidity. A punch and instantly you have a hole. Unapproached for speed.

There are hundreds of drilling jobs too light for the ordinary electric drill. These involve the rapid boring of holes up to  $\frac{1}{8}$  in. in diameter which these drills will perform with amazing ease and rapidity. Cabinet-makers, furniture factories, pattern-makers, chair factories, picture-frame makers, electrical contractors, trunk and luggage makers, carpenters and craftsmen in a great many industries will adopt them. The motors are of the Universal Type for either alternating or direct current at 110 volts. Speed 15,000 R. P. M. at no load. Polished aluminum frame. Variable speed switch. Ball bearing spindle. Eight feet of cord. Length of drills about 9 $\frac{1}{2}$  inches. Shipping weight, 5 lbs.

**3B3945**— $\frac{1}{8}$ -in. size with 5 drills — $\frac{1}{16}$  H. P. Wt., 2 $\frac{1}{4}$  lbs. EACH..... **\$14.00**

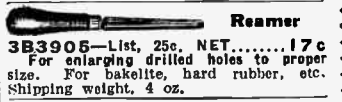
**3B3946**— $\frac{3}{16}$ -in. size with 8 drills — $\frac{1}{10}$  H. P. Wt., 3 $\frac{1}{4}$  lbs. EACH..... **\$17.00**



**Radio Center Punch**

**3B3904**—EACH..... **10c**

Panels must be prick punched as a starter for the drill. This is a high grade solid steel center punch. Knurled handle, sharp point. Length, 4 inches. Shipping weight, 6 oz.



**Reamer**

**3B3905**—List, 25c. NET..... **17c**

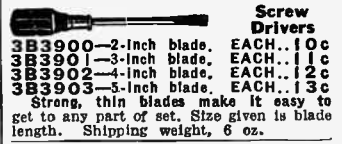
For enlarging drilled holes to proper size. For bakelite, hard rubber, etc. Shipping weight, 4 oz.



**Radio Wrench Set**

**3B3906**—List, 25c. NET..... **17c**

Set of three wrenches in leather case. For all hex. nuts measuring  $\frac{1}{4}$ ,  $\frac{5}{16}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$  and  $\frac{5}{8}$  inch with alligator jaw for odd sizes. Shipping weight, 6 oz.



**Screw Drivers**

**3B3900**—2-inch blade. EACH..... **10c**

**3B3901**—3-inch blade. EACH..... **11c**

**3B3902**—4-inch blade. EACH..... **12c**

**3B3903**—5-inch blade. EACH..... **13c**

Strong, thin blades make it easy to get to any part of set. Size given is blade length. Shipping weight, 6 oz.



**4 in 1 Screw Driver**

**3B3909**—SET..... **45c**

A handy kit of 4 screw drivers that fit every screw used in radio. All metal. Three small sizes, nest inside largest size. Shipping weight, 14 oz.



**Adjustable Template**

Indicates exact location for drilling in panel or base board. Arms adjusted to position and then locked in position. Can be moved without danger of changing adjustment. Shipping weight, 8 oz.

**3B3939**—List, 50c. NET..... **35c**

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

## An Amazing Value

Of the Hi-boy type in a beautifully adapted modern American design, this cabinet has become very popular. It is, unquestionably, one of the best values on the market today. Constructed of selected walnut plywood in a rich, soft, velvety finish. The large Pure Tone In-Built Wood Horn, with long Tone Travel, is placed above the set compartment and fronted with an attractive grille-worked panel. The middle section provides a space 21 in. wide, 18½ in. high and 13 in. deep. It will accommodate panel size 7x18 inches and a blank 3-ply panel is furnished on a sliding pull-out mounting board. Below the set compartment is an extra large sized section for all batteries and power units. Two swinging front doors completely enclose set compartments. Outside dimensions: 26 in. wide, 17 in. deep, 48 in. high. Shipping weight, 00 lbs.

16B11379—List, with Pure Tone Wood Horn, \$60.00. NET, EACH..... **\$3528**



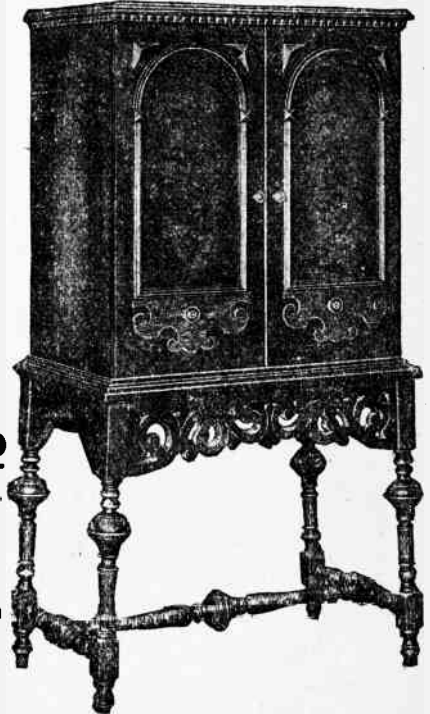
## Massive Spanish Design

This magnificent cabinet is a true reproduction of a fine old Eighteenth Century Spanish design. It

is the kind of furniture that will enrich the appearance of the most finely fitted home. It is unmatched in value in the markets

anywhere. Constructed of choice American walnut with selected veneered doors, rich bird's-eye maple overlay in antique high lighted finish. The horn is built into the top section. The middle section is for the receiver and in size is 24 in. wide, 8½ in. high and 13 in. deep. It accepts a panel size of 7x18 inches and a plain 3-ply mounting panel is furnished on a sliding pull-out mounting board. Below set is large compartment for power units. Outside dimensions, 28 in. wide, 17½ in. deep, 54½ in. high. Shipping weight, 110 lbs.

16B11380—List, with Pure Tone Wood Horn with Long Tone Travel, \$85.00. NET, EACH..... **\$4750**



**Demand Beauty as Well as Efficiency in Buying Radio Receivers**

## High Boy Type Console

Of a very pleasing design, this elegant cabinet has quickly established itself as a very popular number in this fine line of consoles. It is distinguished by the unusual antique, high lighted turnings on the legs, the overlay on the doors and the attractive inlay work. Made of selected American walnut in the rich, neutral, velvet-like lacquered finish. The long doors open onto beautiful grille work, behind which is housed a large Long Tone Travel Wood Horn. The center section is given over to the receiver and has an uncut 3-ply panel 7x18 inches on a sliding pull-out mounting board. This compartment measures 21 in. wide, 8½ in. high, 13 in. deep. Below the receiver section is a large compartment for batteries and necessary power units. The outside dimension of cabinet is 26 in. wide, 17 in. deep, 49 in. high. Shipping weight, 100 lbs.

16B11381—List, with Pure Tone Wood Horn with Long Tone Travel, \$70.00. NET, EACH..... **\$4115**

Freight charges allowed for most states east of Rocky Mountains on orders for over \$50.00. See our offer on page 3.



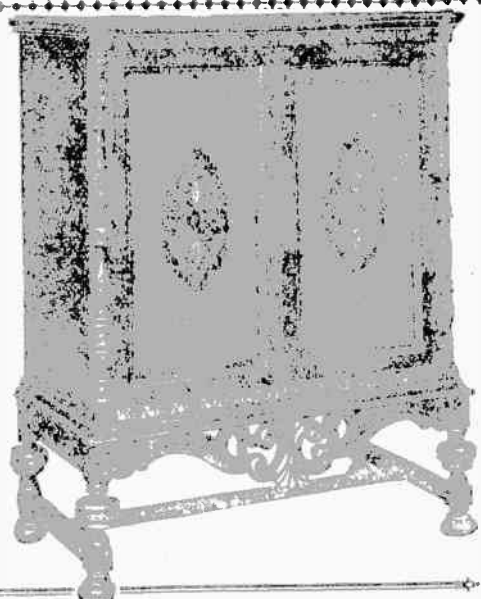


## Massive Orthophonic Type Console

This is one of the finest and richest looking radio cabinets of the Orthophonic type ever made. In its design an inspiration has been taken from the gorgeous creations of the Renaissance, massive, dignified, yet so deftly proportioned and decorated as to make it most graceful and appealing in its appearance. Panel doors of selected butt walnut overlaid with figured mahogany and inlay designs in beautifully shaded effects. Turned antique finish posts, heavy scroll rail, two-tone frieze top and bottom. Underneath the receiver compartment is an arm rest slide. Behind the two grille doors is an extra large long air column horn, beside which is provided ample space for batteries, power units and other accessories. Outside measurements: 35 in. wide, 19 in. deep, 44½ in. high. Accommodates any size panel up to 30 inches wide, 8½ inches high and 13½ inches deep. A blank uncut mounting panel is furnished to adapt to any smaller sized sets. The chassis compartment is made with a pull-out mounting board. Shipping weight, 175 lbs.

**16B1382**—List, with large sized Pure Tone Wood Horn with 60 inch Tone Travel, \$165.00. **\$89.50**  
NET, EACH .....

**16B1383**—Same with famous Fairfax Master Plate Horn with 72-inch Tone Travel. List, \$180.00. **\$98.50**  
NET, EACH .....

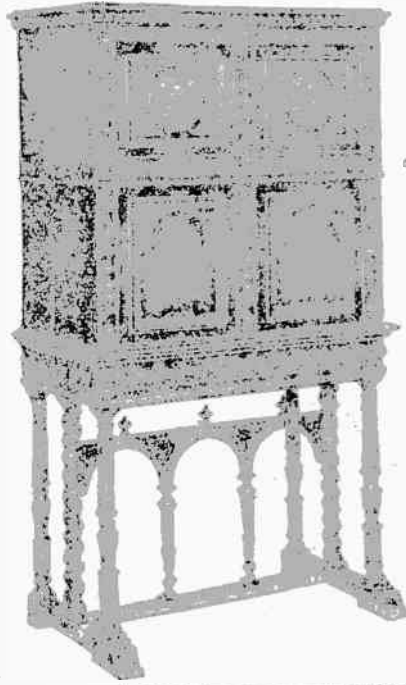


## Magnificent Spanish Design

One is struck with the thought that this magnificent cabinet, in its perfection of design and the harmonious co-ordination of finish and trim, has all the noble bearing, graciousness, cordiality and warmth of the true Spanish Grandee. Truly of the nobility of fine radio furniture! The four-door front is of select butt walnut, paneled and beautifully shaded. Two upper doors have rich wood inlay designs, shaded and high lighted. The grille is quite as beautiful as the rest, with a rich Spanish design grille in front of the horn or speaker compartment. The center section is given over to the set proper and is fitted with a blank uncut 3-ply mounting panel, which may be cut to fit smaller sized panels. Below the chassis compartment is a commodious space sufficient for all batteries, power units and other accessories. Outside measures 34½ in. wide, 18½ in. deep, 60 in. high. Shipping weight, 250 lbs.

**16B1384**—List, with large sized Pure Tone Wood Horn with 60 inch Tone Travel, \$195.00. **\$108.00**  
NET, EACH .....

**16B1385**—List, with famous Fairfax Master Horn, having 72 inch Tone Travel Chamber, \$210.00. **\$112.00**  
NET, EACH .....

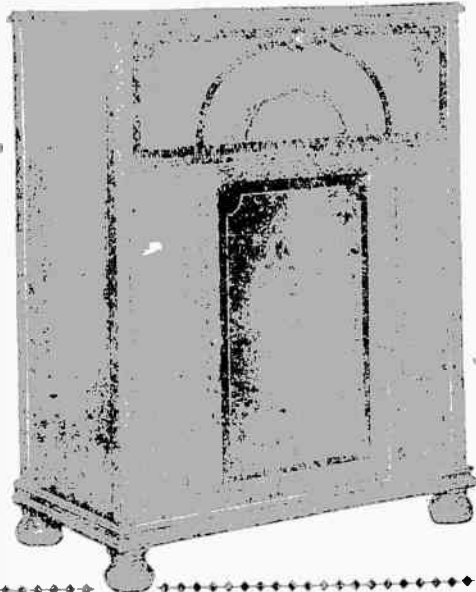


## Tasteful Orthophonic Model

Here we have the most popular type of radio cabinet—The Orthophonic—reproduced in a most unusual and pretty design. Rather plain and severe in its contours. This severity is relieved by rich shadings and lustrid effects. It is constructed of choice American walnut plywood with genuine butt walnut front doors. The upper full door is beautifully set off with a mahogany overlay and a two-tone ebonyized border. This ebonyized border is also carried out on the lower door around a field of perfectly matched butt walnut veneers. The two slender panels beside the front door are neatly embellished with overlay scroll and the legs carry a striking carved effect. Two-tone high lighted soft velvet-like natural finish. In the smaller view you may see how very pleasingly designed is the rich grille fronting the horn and power units compartment. This grille is also hinged, giving easy access from the front to the extra large space behind it. The set compartment measures 30 in. wide, 8½ in. high, 13½ in. deep. An uncut 3-ply mounted panel is furnished for adapting smaller panel sized sets. Outside dimensions: 34½ in. wide, 18½ in. deep, 41½ in. high. Shipping weight, 125 lbs.

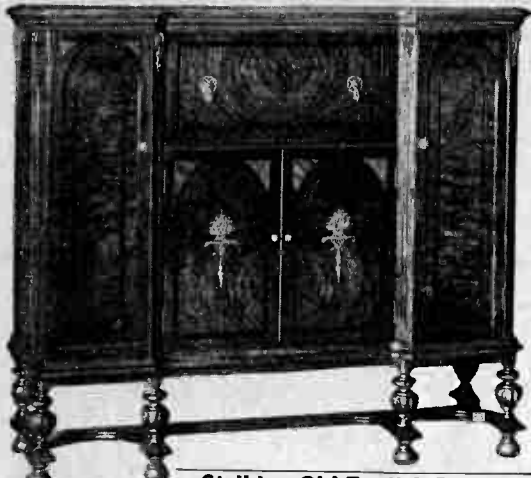
**16B1386**—List, with large sized Pure Tone Wood Horn with 60 inch Tone Travel, \$90.00. **\$49.50**  
NET, EACH .....

**16B1387**—List, with famous Fairfax Master Horn with 72 inch Tone Travel Chamber, \$105.00. **\$58.50**  
NET, EACH .....



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# MAGNIFICENT PIERSON CONSOLES



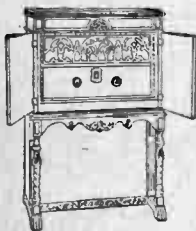
## America's Finest Console

For those who want the very finest. A true classic in Period Design, bearing the motives most popular during England's Golden Era—the age of Shakespeare and Queen Elizabeth. The sturdiness of the old English craftsmanship is combined with the delicate influence and splendor of Medieval cathedrals, arched Satinwood panels and bold overlays in relief with hand painted polychromed carvings as the center motives. Constructed throughout of genuine American walnut, with beautifully figured and matched butt walnut ply woods. This cabinet cleverly houses the radio complete, including space for power units, the large Orthotype speaker horn, the set, and a loop. It is equipped with the large Newcombe-Hawley 96-inch Air Column Concert Grand Orthotype Loud Speaker, including the world's finest unit—the Baldwin Concert Grand. Outside dimensions: Width, 53 in.; depth, 18 in.; height, 45 in. End Compartments, 11 in. wide, 31 in. high, 15½ in. deep. Set Compartment, 24 in. wide, 9 in. high, 18½ in. deep. Horn Compartment, 26 in. wide, 20 in. high, 14½ in. deep. Mounting panel for *extra* size sets included. Shipping weight, 215 lbs.

**16B11353—List, \$250.00. NET, EACH..... \$147.00**  
**16B11354—Same, except for sets having 26 in. panel. List, \$250.00. NET, EACH..... 147.00**

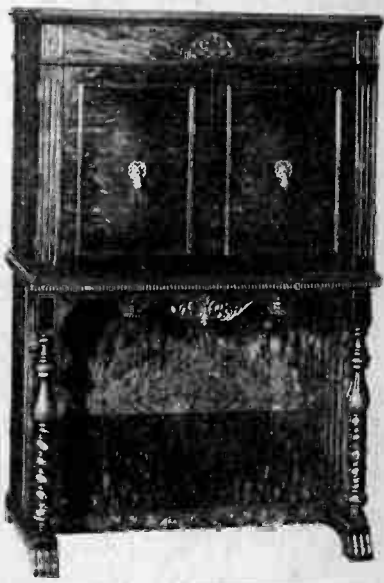
### Striking Old English Design

The magnificent design of this beautiful cabinet brings you back to the days of Old England—a period of sturdy Yeomen and Grand Knights—a period of Romanticism. The balcony effect of the cabinet itself, the heavily carved and turned pilasters, the sturdy toe rails supporting the lower cabinet all blend themselves into a harmonious whole that is very appealing. The front of the cabinet is beautifully figured and matched butt walnut with a Satinwood overlay on the frieze. The mitered mouldings on the doors finished off with substantial antique English pulls and the heavy apron carvings make the Canterbury one of the finest radio cabinets ever built. The small illustration shows how pleasingly the beautifully scrolled grille hides from view the great Newcombe-Hawley Orthotype Loud Speaker with the marvelous Baldwin Concert Grand unit. Accommodates radio sets up to 28 inches in length and 14 inches deep, and also



provides ample space for power units and batteries in the lower compartment. Dimensions: Set Compartment, 8 in. high, 14 ½ in. deep and 27 in. wide; Battery Compartment in base, 21 in. high, 31 in. deep, 10 in. wide; Height of Cabinet over all, 50 in.; width, 33 in.; depth, 21 ½ in. Shipping weight, 175 pounds.

**16B11355—List complete with Horn and Unit, \$175.00. NET, EACH..... \$102.00**  
 Freight charges allowed to any state east of Rocky Mountains.



### Italian Renaissance Model

The noiseless gliding of the gondola through a Venetian canal, with the soothing influence on harassed nerves, is the best way to express the effect when one stops to study this Umbrian model of Medieval Italy's cabinet artistry. You must give more than a casual glance at its illustrious showing—the rich carvings, the Ebony Inlays and Satinwood Overlays, the deep, rich lustrous finish. It is fashioned from selected American walnut, beautifully lacquered and hand-rubbed, with the handles in Old English silver. It is equipped with a special tray drawer which pulls out with no effort for instant installation and adjustment of the set at any time. **WIR** house a radio receiving set up to 24 inches in length and comes with a 3-ply mounting panel which can be cut to fit smaller sized sets. Behind the magnificent scrolled grille is installed a wonderful Orthotype horn, equipped with the marvelous Baldwin Concert Grand Unit. This Speaker rests on a level with the ear when operating. Batteries and power units may be placed in the end compartments, which are equipped with round hinged doors, and also behind the set in the center compartment, if desired. Dimensions: over all width, 48 in.; height, 48 in.; depth, 18 in. Shipping weight, 195 lbs.

**16K11356—List, Complete with Horn and Unit, \$250.00. NET, EACH..... \$150.00**



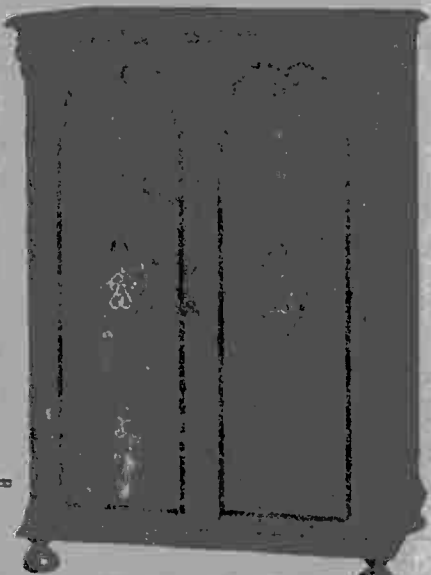


# NO FINER CONSOLES ARE MADE

## True Orthophonic Type Model

This beautiful model is, unquestionably, the most popular radio cabinet ever developed. The two doors in front are of select matched butt walnut and made in perfect pairs. The arched design carved into the face of the doors has a most pleasing effect. The center carved Medallion sets off the beautiful antique Spanish brass pull in a most striking manner. The corners of the cabinet are cut out at angles and carry a heavy carving of Acanthus leaves, below which is a heavy flute in the plaster, which ends in the delicate sweep taken just above the base frame. The interior of the Inter-Mezzo is just as elegant as the exterior. The scroll, with its turned columns forming a beautiful colonnade effect, sets off a neutral-colored silk which fills this grille. Constructed into the cabinet is the genuine Newcombe-Hawley Orthotype Speaker, fitted with the marvelous Baldwin Concert Grand Unit. The set compartment accommodates receivers up to 24 inches wide and comes with a mounting panel which may be cut to receive sets of smaller panel size. Dimensions: Overall height, 42 in.; width, 30 in.; depth, 20 in. Set Compartment, 24 in. wide, 9 in. high, 15 1/2 in. deep; Battery Compartment, 16 1/2 in. deep, 25 in. high, 26 1/2 in. wide. It will be seen that there is generous space for all necessary batteries and light socket power units. Shipping weight, 130 pounds.

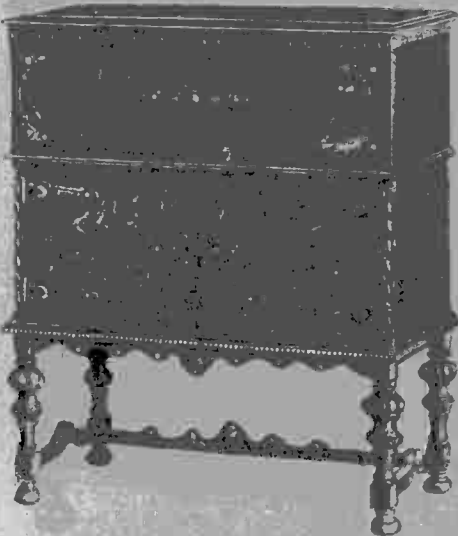
16B11362—List. Complete with Horn and Unit, \$125.00. NET, EACH..... **\$73.50**



### The "Spanish Treasure Chest"

The Spanish Treasure Chest, as the trade knows it, has been widely imitated but most imitators have fallen far short of equaling this original. None equal the little niceties, the careful, painstaking craftsmanship and the magnificent materials which characterize The Seville as made by Pierson. In this new size the Seville houses the large Orthotype horn, in front of which is installed a beautiful scroll representing a Spanish arcade. The exterior is made from choice 100% figured and matched butt walnut. The finish is left natural, doing full justice to the antique brass finish of the special Spanish design hardware. The cabinet is richly ornamented by a series of mitered return mouldings and generous spindle carvings. Dimensions: Overall width, 36 in.; height, 42 in.; depth, 18 in.; Set Compartment, 24 in. wide, 9 in. high, 15 1/2 in. deep; Battery Compartment, 16 1/2 in. deep, 25 in. high, 26 1/2 in. wide. Has 3-ply mounting panel which can be cut to fit smaller sized sets. Shipping weight, 135 lbs.

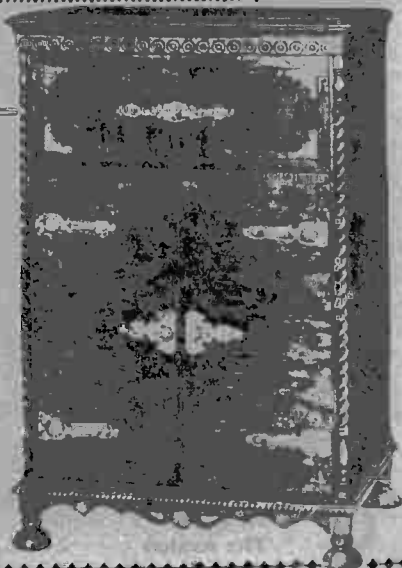
16B11363—List, \$140.00. NET, EACH..... **\$82.32**  
 16B11364—Without Horn and Unit, List, \$110.00. NET, EACH..... **\$64.68**



### A Novel Spanish Period Design

In this charming creation, Pierson has combined two very popular features. First, from the point of beauty, the Spanish design with its antique wrought brass hinges and hardware, its carved twists and the beautiful Spanish finish; secondly, the Orthotype construction embodying the long Air Column Horn, which brings forth the entire tonal register. Utmost care has been exercised in the selection of the beautifully figured walnut used in its construction and the soft, hand-rubbed finish bringing out the unusual beauty of the grain of this wood. The lines of the cabinet are carried through in well carved, twisted pilasters mounted top and bottom by carved members that set it off in a most effective way. Its interior rivals the exterior in beauty. The large scroll carries a design that has always been popular, backed by a rich neutral-colored silk. While distinctly Spanish, this beautiful cabinet is not freakishly so. It is the kind of design that grows on one and of which one is just as proud after years of use as on its day of purchase. Dimensions: Overall height, 42 in.; width, 30 in.; depth, 20 in. Set Compartment, width, 24 in.; height, 9 in.; depth, 15 in. Battery Compartment, width, 22 in.; height, 24 in.; depth, 15 1/2 in. Fitted with genuine Newcombe-Hawley 84 inch Air Column Loud Speaker with the marvelous Baldwin Concert Grand Unit. Shipping weight, 130 lbs.

16B11365—List. Complete with Horn and Unit, \$150.00. NET, EACH..... **\$88.20**

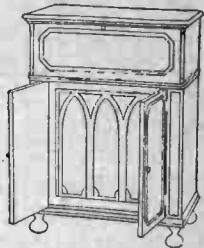


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# Excello Radio Consoles

## Tasteful Modern Design

With a chastity of line and an effect of massiveness and strength, this beautiful design reflects a tendency which is now generally marked in the fitting of many fine American homes. Unusually heavy construction of choice selected American walnut with 5-ply walnut veneer top and panels. The doors are beautifully set off with elegant matched butt walnut veneers. Magnificent hand-rubbed and polished finish. The set compartment is protected by a hinged fall which forms a convenient arm rest when tuning the set. The receiver doors open on to a beautiful grille in colonnade effect, behind which is a soft neutral color silk filling. This cabinet comes with or without a Long Air Column Horn, to which is fitted a metal throat threaded to accept the standard speaker unit. Ample room to house behind the grille a 22 in. cone type speaker if desired. Dimensions: overall height, 42 in.; width, 32½ in.; depth, 18½ in. Speaker Compartment, 29 in. high, 24 in. wide, 14½ in. deep. Maximum panel space, 10x29 in. The top is hinged and the grille is removable. Shipping weight, 150 lbs.



**16B11366—Complete with Long Air Column Horn but without Unit. List, \$100.00. NET, EACH..... \$58<sup>80</sup>**  
**16B11367—List, without Horn, \$90.00. NET, EACH..... \$52<sup>90</sup>**



**The Wyndemere**

### Rarely Beautiful Spanish Model

From old immortal Spain—the land of Romance—comes the inspiration for this magnificent design. In its adaptation to radio use it loses none of the inherent charm and the pleasing proportion of the great old Spanish designers. And in the development of this exquisite artistry we find in delightful co-ordination the rich, soft high lighted finish and the antique brass strap hinges and wrought hardware. Made from choice American walnut with 5-ply walnut veneer top and panels. Front doors of selected matched butt walnut in rich polished, hand-rubbed finish. The lower doors house a large speaker and accessory compartment fronted with a removable grille filled with neutral colored silk. Dimensions: overall height, 42 in.; width, 23 in.; depth, 20 in. Will accommodate set with panel size up to 8x24 in.; adjustable filler pieces provided for use with smaller set panels. Top is hinged. Furnished with or without Long Air Column Horn, having metal-throat and unit adapter as listed. Will also house a 22 in. cone type speaker, leaving ample room for batteries, chargers or eliminators. Size, Speaker Compartment, 24x24 in. and 16 in. deep with removable grille. Shipping weight, 140 lbs.

**16B11368—List, with Horn but no Unit. \$55<sup>85</sup> NET, EACH..... \$50<sup>00</sup>**

**16B11369—List, without Horn, \$85.00. NET, EACH.....**



**The Coronado**

### Dignity and Grace Distinguish This Model

In this charming design we find the influence of the modern American designer who strives to inculcate a touch of beauty after having first based the general design upon utility values. Although simple and massive in its first impression, the twists on the corner pilasters and the contrasting inlay on the drop pull form a pleasing relief from the severity of line of the console itself. The effect withal is one of rare and charming grace. Made from the finest American walnut with 5-ply walnut veneer top and panels. The front door is made with matched butt walnut veneers. Furnished with or without Long Air Column Horn which has metal throat threaded for unit. This compartment will also house a 22-inch cone type speaker, together with all necessary power equipment, if so desired. Dimensions: overall height, 41 inches; width, 27 inches; depth, 16 inches. Speaker Compartment is 24x24x14 in. and has removable grille filled with a neutral shade silk. This console accommodates sets up to 9x24 in. and has adjustable filler pieces which fits it to accept smaller sized panels. The top is hinged. Beautifully hand-rubbed and polished finish. Shipping weight, 120 lbs.

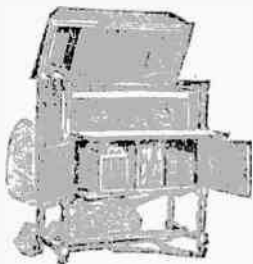
**16B11370—Complete with Long Air Column Horn \$41<sup>15</sup> but without Unit. List, \$70.00. NET, EACH....**

**16B11371—Without Horn. List, \$60.00. NET, EACH..... \$35<sup>25</sup>**



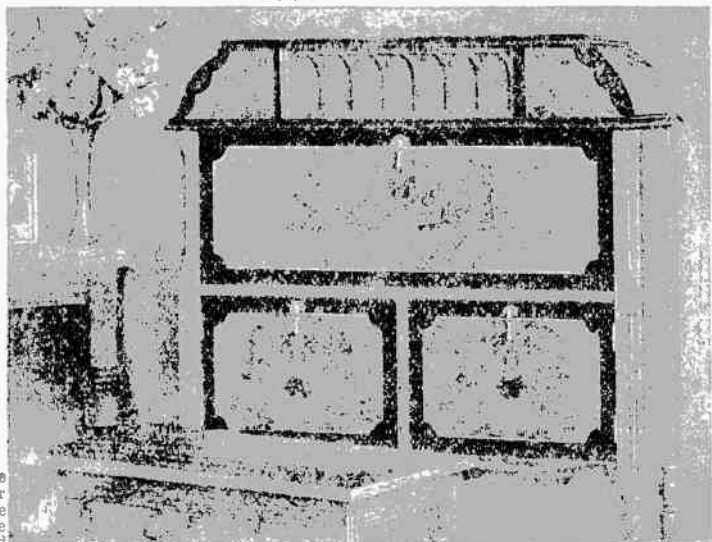
**The Avalon**





## EXCELLO RADIO CONSOLES

### Gorgeous Duo-Tone Console



The Carolan is one of the finest examples of the proper adaptation of beautiful furniture to the uses of radio. Not alone is it distinguished by the hand of a master designer and craftsman but in its perfect arrangement of set, accessories and speaker. It has gained a popularity very widespread and intense. It is constructed of the finest American walnut with 5-ply walnut veneer top and panels. The doors are elegantly set off with matched butt walnut and set in a contrasting inlay effect. The pilasters and legs are tastefully turned and fluted, reflecting a point of refinement always expressed by the most accomplished old English designers. The tone chamber, which is above the receiver space, is constructed of a specially seasoned wood with a metal throat, to which may be adapted any standard unit. The receiver compartment is equipped with adjustable panels so as to accommodate any set, the panels of which do not exceed 10x32 in. in size. The large compartment below the set section, easily acces-

sible through the front doors, has a sliding shelf which pulls forward for easy testing, adjustment or filling of power units or batteries. The entire cabinet is finished in a two-tone effect with a hand-rubbed and polished piano finish. Dimensions: Overall height, 45 in.; width, 37 in.; depth, 16 in. Shipping weight, 125 lbs.

16B11357—Console Complete with Horn but no Unit. **\$52<sup>92</sup>**  
List, \$90.00. NET, EACH.....

16B11358—Bench to match, as illustrated, made of solid walnut and finished to match all the three Exoello Consoles shown on this page. Size top, 14x28 in.; height, 18 in. Shipping weight, 30 lbs.

**\$9<sup>55</sup>**  
List, \$15.00. NET, EACH.....



### The Monterey

In this imposing design we find the popular Spanish effect as exemplified in the antique brass finished trimmings and the spindles, carved legs and cross stretcher. It is made of selected American walnut with 5-ply walnut top and panels. The front doors have beautifully matched butt walnut veneers, as shown. The tone chamber, made with a long air column and with metal throat to accept a standard unit, is placed above the receiver space and is hinged as a part of the cover top. Maximum panel space, 8x32 in. The battery compartment has a sliding shelf which pulls forward for testing or adjusting any of the power units used in connection with the receiver. Rich piano hand-polished finish. Dimensions: Overall height, 40 in.; width, 37 in.; depth, 16 in. Shipping weight, 125 lbs.

16B11360—Complete with Horn but no Unit. List, \$75.00. NET, EACH..... **\$44<sup>10</sup>**

16B11361—Without Horn. List, \$70.00. NET, EACH..... **\$41<sup>15</sup>**



### The Chelsea

This beautiful model is distinguished by the unusual design and placement of the horn at the top of the receiver and made so that the amplifying chamber and the top are both hinged, permitting ready access to receiver parts when top is raised. The design itself is a very pleasing one, with charmingly fluted pilasters and turned legs. Constructed of finest American walnut in a two-tone finish, as shown in the illustration. The top front doors and end panels of 5-ply stock. Hand-rubbed and polished finish. The panel space is 8x32 inches. The lower chamber provides ample space for batteries, chargers or socket power units. Dimensions: Overall height, 40 in.; width, 37 in.; depth, 16 in. Shipping weight, 120 lbs.

16B11359—List, Complete with Horn but no Unit, \$57.00. NET, EACH..... **\$33<sup>50</sup>**

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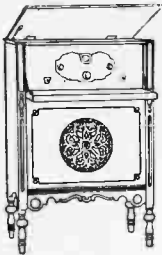
119

# Superior Radio Cabinets

## Orthophonic Type Console

There is a feeling of the beauty in richness of the early American in this most pleasing and artistic model. It is distinguished by tasteful decorations and cutouts and the splendor of its veneers. It is constructed of selected American walnut with beautifully matched butt wainut front panels. The richly carved scroll grille fronting the lower compartment lends a most pleasingly striking effect. Top is hinged, giving easy access to the radio set. The large lower compartment provides generous space both for the long air column built-in horn, as well as all batteries, chargers or power units necessary. It is finished in the new lacquer, hand-rubbed to a fine semi-dull finish of velvet smoothness. Overall size: Height, 43 in.; width, 28 in.; depth, 18 in. Adaptable to all sets with panel size up to 24 inches and is fitted with 3-ply panel which may be cut to accommodate sets of smaller panel size. The set compartment measures 25x9 $\frac{1}{2}$ x12 $\frac{1}{2}$  inches. Shipping weight, 115 lbs. With in-built Horn but without Unit.

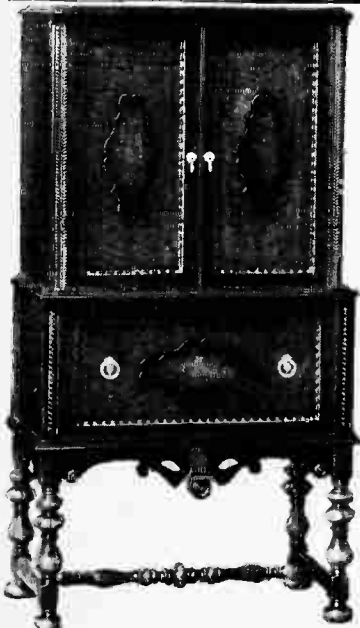
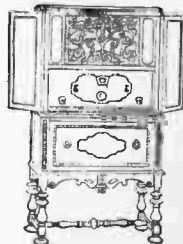
16B11300—List, \$70.00. **\$39<sup>50</sup>**  
NET, EACH.....



## Massive Period Design

The impression of this magnificent cabinet is one of rare grace and symmetry of line, together with a striking massiveness. It is constructed of American walnut, richly veneered with perfect matched butt wainut front and striking Burl walnut overlays. The Speaker Compartment Grille, as seen in the smaller illustration, is made in a richly carved effect, reminiscent of the days of the old artist carvers. A sliding tray is provided for the radio set and the lower front panel is also removable for easy access to the battery compartment. The finish is the new hand-rubbed lacquer, soft and velvety. Has a long air column horn with a metal throat, to which may be fitted any of the standard speaker units. It will accommodate sets up to panel sizes 10x24 inches and is fitted with a walnut 8-ply panel, which can be cut to adapt sets of smaller panel size. The dimensions overall are: Height, 51 in.; width, 27 in.; depth, 16 in. The large battery compartment measures 22 $\frac{1}{2}$ x10 $\frac{1}{4}$ x14 inches. Shipping weight, about 125 lbs.

16B1130—Complete with Horn but without Unit, List, \$85. **\$49<sup>20</sup>**  
NET, EACH.....

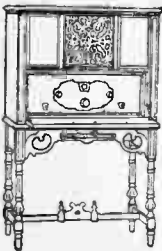


## Beautiful Spanish Model Console

Reflecting the influence of the Spanish on present day designing, this beautiful cabinet is an outstanding example of how easily the these old designs may be retained in fitting them to modern uses. It takes its general contour from the old Spanish Treasure Chest and retains many of the motives which distinguish those great old heirlooms handed down from that romantic period. In its construction has come the skilled craftsmanship of superior artisans, who have fashioned it from fine American walnut. The front is of built walnut, selected and matched with the greatest care and embellished with the moulded grille, carved wood mouldings, overlays and turnings. Finished in lacquer, hand-rubbed to a smooth semi-dull surface.

As shown in the smaller illustration, the front panel drops, exposing the set and forming a convenient arm rest when tuning. This set compartment measures 25x8 $\frac{3}{4}$ x14 $\frac{1}{2}$  inches and accommodates receiving set panels up to 24 inches in length. It is furnished with a 3-ply walnut panel for adapting to smaller sized panels. Above the set is a roomy compartment 15 $\frac{1}{2}$ x18 $\frac{3}{4}$ x24 inches, which provides space for the long air column horn fitted with a metal throat, into which any standard speaker unit may be adapted. On each side of horn is ample space for batteries and power units. Dimensions overall: Height, 50 $\frac{1}{2}$  in.; width, 30 $\frac{1}{2}$  in.; depth, 18 $\frac{1}{2}$  in. Shipping weight, about 150 lbs. Price includes Horn but no Unit.

16B11302—List, \$95.00. NET..... **\$53<sup>75</sup>**



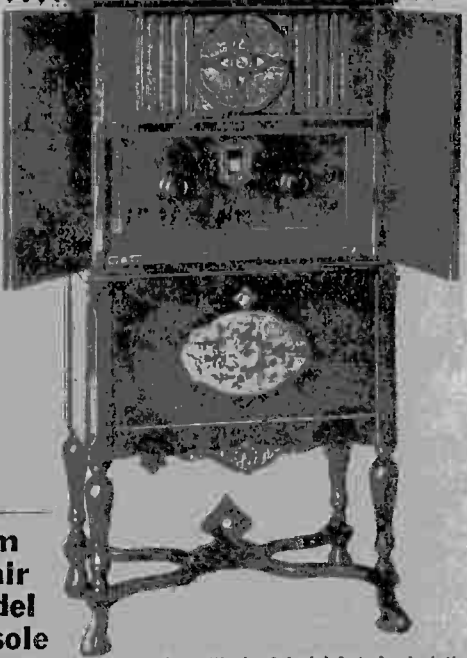


## An Amazing Value in a Beautiful Spanish Console

Here again we have the alluring charm and romantic suggestion of the dashing rich old Spanish design. More than fine wood and craftsmanship has gone into the making of this fine console—the inspiration to make the romanticism of the period it represents to live again in the actuality of this gem of radio furniture. It is made of finest American walnut veneers with choice matched grain burl walnut front. The doors and battery compartment of all have polychrome overlays. Decorative antique hardware adds to the tasteful appearance. The base is distinguished by perfectly turned legs and a graceful brace construction. Behind the charming grille at top is a long tone travel horn of scientific design and perfect reproductive characteristics. The set compartment accommodates sets with chassis up to 8x21x10 inches. A blank panel for smaller size sets is furnished. The battery compartment is 11 inches high, 21 inches wide and 12 inches deep. The console measures over all 48 inches high, 25 inches wide and 15 inches deep. Shipping weight, 150 lbs. No unit included.

16B11392—List, \$97.50.  
NET, EACH.....

**\$48<sup>50</sup>**

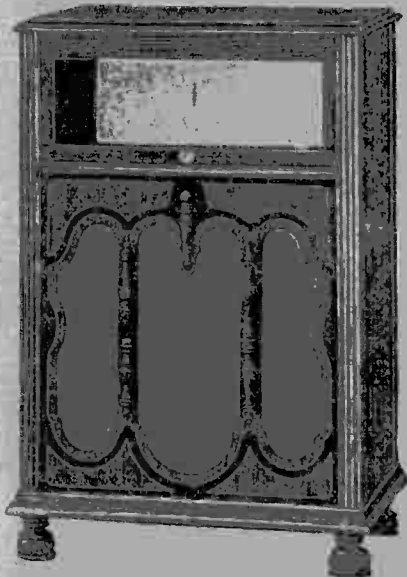


### Arm Chair Model Console

The plain, chaste lines, together with the Colonial feet, inspired the name of this beautiful little cabinet, bringing us back to the good old Colonial days. This cabinet splendidly combines the popular Arm Chair Model design and the Orthophonic Horn arrangement. It is made of the finest American walnut plywood, beautifully finished in the new velvety, smooth lacquer with charming touches of antique high lighting on the wood turnings. The unusual design of the grille gives it a very striking appearance. It will house any radio set fitting into space 21 in. wide, 8 1/2 in. high, 13 in. deep. It is fitted with a 3-ply mounting panel 7x18 inches on sliding pull-out mounting board. The outside dimensions are: 25 in. wide, 15 1/2 in. deep and 43 in. high. Behind the grille is housed a very efficient built-in wood horn, to which may be fitted any standard speaker unit. The entire front is hinged, allowing easy access to the large compartment around the horn, which provides ample space for all batteries and power units. This compartment is 22 in. wide, 13 in. high and 13 1/2 in. deep. This is, unquestionably, one of the very best values in fine radio cabinets ever offered. It is characterized by the finest workmanship in every detail. Shipping weight, 115 pounds.

16B11391—List, with BuMt in Wood Horn, \$39.00. NET, EACH.....

**\$22<sup>95</sup>**



### Marvelo Radio Chassis Fit These Fine Consoles

## The Choice of Those Who Want Tasteful Modern Design

This beautiful cabinet is highly favored because of its instant acceptability and the very refined and pleasing appearance it presents. A striking feature is the round grille filling the entire lower compartment, placed in an offset effect. Cutaway posts with flutes ending in a charming carved pilaster effect. An air of solidity and strength is given by the specially arched design of the lower cross stretcher across the front. Cabinet is substantially made by cabinet-makers of national renown and beautifully finished in the soft natural walnut color, rubbed to a velvety smoothness.

All panels are veneered with choice select walnut stock. The outside dimensions are: Height, 44 inches; width, 30 inches; depth, 15 inches. It accommodates sets up to panel size of 8x28 inches and depth up to 12 inches, and comes with a blank panel for accommodating smaller sized sets. The large compartment at the bottom measures 22 inches high, 25 inches wide, 12 1/2 inches deep, providing ample space for either cone or horn speaker, as well as all necessary batteries and power units. Shipping weight, 65 pounds.

16B11388—List, without Horn, \$50.00.

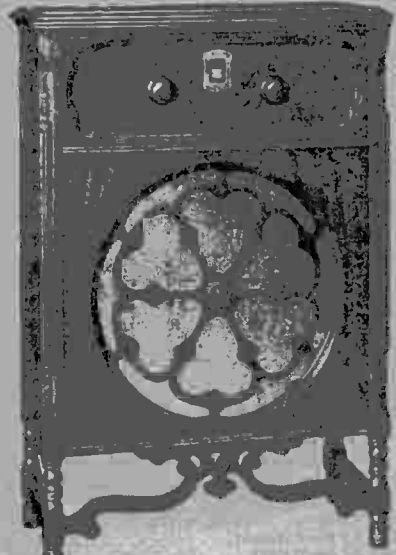
NET, EACH.....

16B11390—List, with 20-inch Utah Cone Speaker,

\$72.50. NET, EACH.....

**\$28<sup>90</sup>**

**\$32.70**





## Beautiful Speaker Table

An attractive rich appearing table, fine enough for the most expensive set yet very moderately priced. Genuine five ply walnut veneer top and front in elegant hand rubbed finish. Top size 36 inches wide, 16 inches deep. Height, 33 inches. Fine toned built-in speaker in center. Roomy side compartments provide ample space for batteries, power units, etc. Sturdy, strong construction insures years of satisfactory service. Shipping weight, 70 pounds.

16B11376—List Price, \$33.50. **\$19<sup>10</sup>**  
NET .....

## We Pay the Freight See Offer Page 3

### Colonial Style Radio Table

A neat attractive table. Has shelf below for wet or dry, A and B batteries or power units. Radio set and horn are placed on top. Very reasonably priced. Fine dull walnut finish.

Length, 38 in.; width, 18 in.; height, 33 in. Shipping weight, 20 lbs.

16B11375—List Price, \$15.00.  
NET .....



**\$7<sup>80</sup>**



Height  
18 Inches

### Radio Bench for use with all Consoles

Attractive appearance. Just the right size to place beside console for convenient and comfortable tuning. High quality material and workmanship. Fine enough to match up with the finest console or cabinet.

Mr. Dealer, here is a big seller. One should go with every console. In lacquer finish Mahogany or Walnut. 18 inches high. Top, 12x20 inches. Shipping weight, 35 lbs.

16B11377—Mahogany, List, \$7.50. NET .....

**\$4<sup>40</sup>**

## Hepplewhite Period Style Consoles

The five beautiful period style cabinets listed below and in first column on next page are specially built for radio convenience and to completely and compactly house the set, batteries, charger and miscellaneous equipment. Nothing need be outside the console. These practical features added to beauty make this furniture most popular.

Adam Brown mahogany finish lacquered and hand-rubbed with antique trim, markings and hardware to match. Five-ply genuine brown Mahogany Top. Three-ply mahogany mounting panel supplied with consoles on which dials may be mounted or panel may be cut to take bakelite panel of receiving set. Guaranteed workmanship and materials.



### Highboy

16B11393 — Retail Price, \$48.00.  
NET PRICE .....

**\$28<sup>20</sup>**

Artistic brown mahogany finish with lacquered and hand-rubbed gold striping with hardware to match. Will accommodate any set up to 24 inches long by 9 inches high and 11 inches deep. Top lifts up. Battery compartment with knobbed doors below with sufficient room to house all batteries, eliminator, Current Supply Units, etc. Has built-in speaker with silk-lined grille. No unit included. Mounting panel supplied on which dials may be mounted, or panel may be cut to take bakelite panel of receiving set. Cabinet measures 30 inches wide, 42 inches high, 16 inches deep. Shipping weight, 90 lbs.



### Standard Console

16B11395 — Retail Price, \$42.00.  
NET PRICE .....

**\$24<sup>70</sup>**

Add \$3.95 extra for loud speaker horn. With outside speaker, it will take a 32-inch wide panel. If ear-level speaker is desired, will take set to 24 inches. Lift top. Mounting panel supplied. Width, 36 inches; depth, 16 inches; height, 39 inches. Beautiful mahogany lacquered and hand-rubbed Polychrome finish with antique trim. Shipping weight, 90 lbs.





**Low Boy**

16B11394 — Re-tall, \$35.00. NET PRICE..... **\$20<sup>55</sup>**

Provides space for set up to 26 inches wide; height, 39 inches; depth, 16 inches; width, 30 inches. Intended for use where horn or cone speaker is used on outside. No speaker included. Shipping weight, 80 lbs.



**Battery Cabinet**

16B11397 — Re-tall Price, \$23.00. NET PRICE..... **\$13<sup>50</sup>**

A convenient period design table. Set and speaker go on top, batteries into the two lower compartments, out of the way. Solid back! Opens from front. Mahogany finish, gold striping. Length, 30 inches; depth, 16 inches; height, 29 inches. A real buy at our low price. Shipping weight, 50 lbs.



**Speaker Console**

16B11396 — Re-tall Price, \$28.00. NET PRICE..... **\$16<sup>45</sup>**

**Battery Table With Speaker Grille and Compartment**  
Has silk backed grille compartment for built-in speaker. No horn nor unit included. Batteries go into the two compartments at the side. Set goes on top. Mahogany finish, antique trim. Length, 30 in.; height, 29 in.; depth, 16 in. You can't beat this quality for the money. Shipping weight, 55 lbs.



**Sheraton Period Style Two-Tone Console Type Table**

An attractive radio table at a very low price, finished in Walnut two-tone, with gold veining stripe separating finishes. Front is one piece, veined and grooved in two-tone to give it the appearance of two separate doors. The back is entirely open, giving free access for battery adjustments, etc. While this table is priced very low, the finish is given the same care as our higher priced line. Top is hand rubbed, selected gum, and in so far as finish is concerned has the exact finish of solid Walnut. DIMENSIONS—Height, 30 inches; top, 16x30 inches; inside compartment, 13½ inches deep, 14½ inches high, 25½ inches wide.

Place the set and speaker on top. Lots of room in compartment below for batteries, charger, eliminator, power units, etc. Strong, sturdy construction. Will last a lifetime. Shipping weight, 50 lbs.

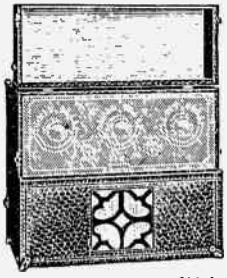
16B11374—Sheraton Radio Table. List Price, \$18.00. NET..... **\$9.25**



**Sturdy Radio Table**

A well made practical radio table which adapts itself to small space and at the same time is capable of accommodating set and all accessories. Set goes on top, batteries on middle shelf conveniently out of the way. Top and shelf are constructed of heavy trunk fibre board with hardwood side rails. All parts are well braced, strong and sturdy. Wood parts all finished in dark mahogany varnish, top and shelf covered with protective iron caps. Height, 26 inches; width, 29 inches; depth, 16½ inches. Shipping weight, 11 pounds. This table cannot be shipped by parcel post.

16B11372—NET..... **\$3.25**



**Monroe Portable Radio Case**

Here is a strong, sturdy portable radio case large enough to take a panel size of 7x18 inches, room enough for all necessary batteries, yet light in weight. Built like a trunk or carrying case, with rigid frame over which is a long wearing, fine quality leatherette covering in black color. Corners reinforced with nickel-plated metal corner pieces. Overall size is 25 inches long, 15½ inches wide and 10½ inches deep. Both front and back

are hinged. The rear lid has brackets for winding in a generous size loop antenna.

In-built is a splendid complete cone speaker of excellent design. Gives unusual volume and true tones. In front of speaker is attractive grille filled with cloth mesh. Case weighs only 10 pounds and has a strong grip handle. It is most convenient in size and easy to carry about. Shipping weight, 12 lbs.

16B11373—List price, \$22.50. NET..... **\$13.25**



See page 103 for loop wire.

# Magnificent Overlay Distinguishes This Strik- ingly Beautiful Console

The design is taken from the rich old period style cabinets which graced the mansions of the old world decades ago. It adapts itself ideally to radio use. Made of genuine walnut plywood with stripe mahogany overlays on the front as shown. Ebony finished moldings add further to this striking effect. The set compartment accommodates panel sizes to 7x21 inches with blank panel for smaller sizes. Swinging doors completely close in set and grille. On page 9 you may see picture of the richly designed grille which is removable, giving access to batteries and power units without moving console. Rich, rubbed finish. Inbuilt is a long air column speaker with genuine Utah speaker unit. Outside dimensions: 24 1/4 inches wide, 18 inches deep, 41 3/4 inches high. Battery section measures 21 inches wide, 14 1/2 inches deep, 10 3/4 inches high. Shipping weight, 100 pounds.

16B13066—List complete with Horn and Unit, \$59.00. NET..... **\$33.75**



**Semi-High Boy Console**

One of the newest designs. Made of genuine walnut plywood in rich rubbed finish. HAS large inbuilt air column speaker with genuine Utah loudspeaker unit. Ample space for batteries and power units. Accommodates sets up to 7x21 inch panel size. Top raises. Stands 38 1/4 inches high, 22 inches wide, 14 3/4 inches deep. Lower compartment inside, 10 1/2 inches high, 20 1/2 inches wide, 13 3/4 inches deep. Shipping weight, 70 pounds.

16B13067—List, with Horn and Unit, \$35.00. NET..... **\$20.60**



**Symphonic Type Console  
A Beauty!**

An ideal design and widely favored as the perfect style of radio console. The richly designed grille front and the striking inlay effect on the fall leaf give this model a most distinguished and aristocratic appearance. Made from choice American walnut plywood, beautifully finished, with high light and two-tone effect. Lower compartment houses a long air column, deep-toned horn. Ample space for batteries and power unit. Takes sets up to 7x18 inch panel size. Top raises. Outside dimensions: Height, 38 inches; width, 23 1/2 inches; depth, 18 inches. Lower section inside is 21 inches wide, 15 inches deep, 10 3/4 inches high. Shipping weight, 80 lbs.

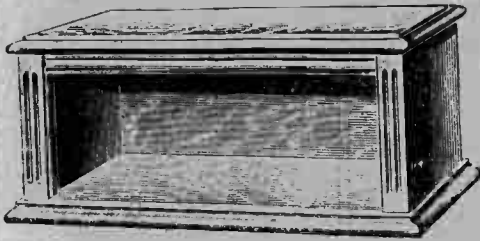
16B13068—List, with Horn, but without Unit, \$49.50. NET..... **\$29.10**





# De Luxe Cabinets

# Genuine Walnut Cabinets

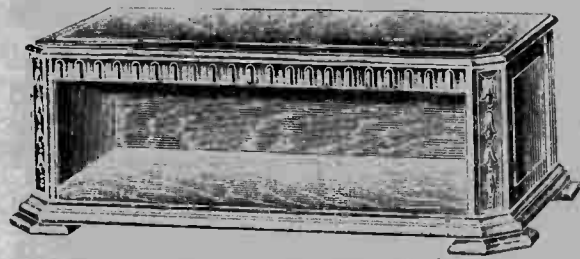


Fine looking cabinets at very attractive prices. They are made of heavy cabinets of hard and better prices. Elegant and finished in the finest quality. Great in top. Carved for the high panels. Full 10 inches deep back of panel.

Article Number	Panel Size, In.	Shipping Weight	List Price	Net Price, Each
16B11601	7x18	14 lbs.	\$7.25	\$4.25
16B11602	7x21	16 lbs.	7.50	4.40
16B11603	7x24	17 lbs.	8.00	4.70
16B11604	7x26	18 lbs.	8.50	4.95
16B11605	7x28	21 lbs.	9.00	5.25
16B11606	7x30	23 lbs.	10.00	5.85

A beautiful piece of furniture with genuine walnut top and sides. In the center of the top, the best grade of Genu. Dark American Walnut, finished and mounted with a smooth satin finish. List is equipped with a rich setting in the finest set. Nickel plated piano hinges and stays. 10 in. deep.

Article Number	Panel Size, In.	Shipping Weight	List Price	Net Price, Each
16B11621	7x18	14 lbs.	\$11.00	\$6.46
16B11622	7x21	16 lbs.	12.00	7.06
16B11623	7x24	18 lbs.	13.00	7.62
16B11624	7x26	21 lbs.	14.00	8.23
16B11625	7x28	22 lbs.	15.00	8.30



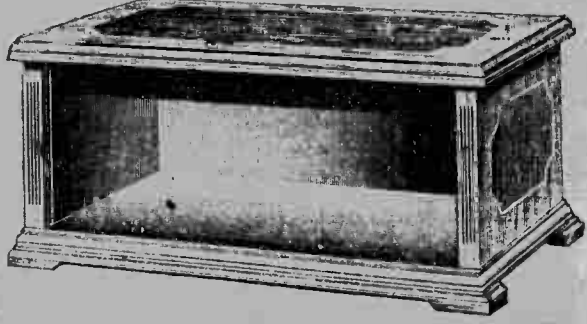
## Fritts Super-Highland Carved Cabinets

The highest grade cabinet obtainable. No better made. The wood is genuine walnut, finished in natural color, with highly polished piano finish on all sides, front, top, top and back. Have raised panel effect. Heavy piano top and drawers. The top is the finest grade of wood. All panels are tastefully decorated. All drawers are made by genuine carved wood at top of drawers. There are many other variations of this cabinet being offered at lower prices. Price 12 in. deep.

Article Number	Panel Size, In.	Shipping Weight	List Price	Net Price, Each
16B11633	7x18	24 lbs.	\$21.00	\$11.35
16B11634	7x21	26 lbs.	22.00	11.65
16B11635	7x24	28 lbs.	22.50	11.90
16B11636	7x26	30 lbs.	\$23.50	\$12.15
16B11637	7x28	32 lbs.	24.50	12.70
16B11638	7x30	34 lbs.	26.50	13.45

## Sheraton Two-Tone Walnut Cabinets

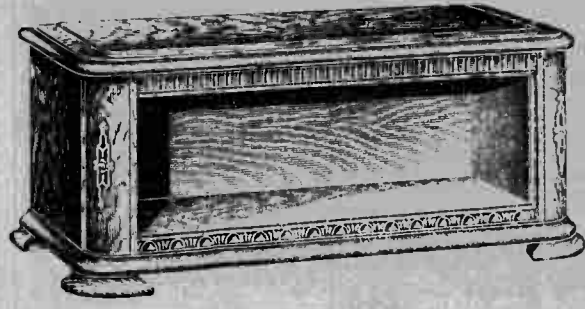
Elegantly finished solid walnut top and sides in two-tone effect. Body of cabinet is beautiful brown walnut with darker brown panels around which are inlaid gold lines. Fine hand-painted finish. Panel with full-height nickel plated piano hinges and stays. Empis proved for smooth panel. Full ten inches deep back of panel. Finest grade walnut, guaranteed perfect construction.



Article Number	Panel Size, In.	Shipping Weight	List Price	Net Price, Each
16B11601	7x18	16 lbs.	\$11.50	\$6.70
16B11602	7x21	18 lbs.	12.30	6.25
16B11603	7x24	20 lbs.	13.50	6.95
16B11604	7x26	21 lbs.	14.00	7.05
16B11605	7x28	22 lbs.	15.00	7.35
16B11606	7x30	23 lbs.	16.50	8.12

## Wainrite Quality Cabinets

The body is Solid Walnut (not veneer). Back and inside center of base, the best grade of Genu. Dark American Walnut, finished and mounted with a smooth satin finish. List is equipped with a rich setting in the finest set. Nickel plated piano hinges and stays. 10 in. deep. Full height of the cabinet are hand-carved in the finest style. A defined character in motif, one which will satisfy the most fastidious taste and fit into the most refined setting. Fully GUARANTEED. Depth, panel to back 12 inches.



Article No.	Panel Size, In.	Shipping Weight	List Price	Net Price, Each
16B11641	7x18	22 lbs.	\$15.00	\$ 9.00
16B11642	7x21	24 lbs.	17.00	10.20
16B11643	7x24	26 lbs.	18.00	10.50
16B11644	7x26	27 lbs.	19.00	11.40
16B11645	7x28	30 lbs.	19.00	10.95
16B11646	7x28	32 lbs.	20.00	12.00
16B11647	7x30	34 lbs.	21.00	12.60

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

## Weston Model 519 Radio Set Tester



A compact portable "trouble shooter" for complete and rapid servicing of both battery and battery eliminator operated sets. Designed for measuring all voltages used in a radio set both at the battery terminals and at the tube sockets; for quickly checking tubes and for testing continuity and condition of circuits. It's a big time and money saver for the radio service man. A complete check up can be made in a very few minutes.

Full scale deflection is produced on the instrument with a current of only one milliamper. Testing can be done while set is in operation without change in connections or the use of auxiliary batteries.

The instrument has three voltage ranges—200/80/8 volts—and a 20 milliamper range. Voltage ranges have a resistance 1000 ohms per volt. Extremely accurate. Each set is provided with a plug and socket of the UX type together with adapters for use on other types of connections. Shipping wt., 6 lbs.

**3B2651—1st. \$76.00. Net. \$56.25**

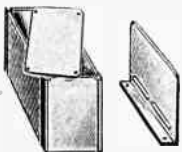
## Master Craft Tube Renewer

A universal tube rejuvenator that operates direct from the "B" batteries. Brings back paralyzed 100, 201A, 200A, 112, 171, or any tube with thoriated filament. Simple to use. No AC current necessary. Get one and keep your tubes at full efficiency. Shpg. wt., 6 oz.

**3B6551—List price, \$1.00. Net. 64c**



## Aluminum Shields



The famous Alcoa shields so popular with set builders. Specified in many kits. Highest grade aluminum.

**3B6553—Wing Shields 4x6 in. Sets of 4. Shpg. wt., 1 1/2 lbs. List, \$1.14**

Net.

**3B6554—Box Shields 6x8x6 inches. Shpg. wt., 3 1/2 lbs. List, each \$2.28**

**3B6555—Junior Box Shields, 4 1/2 x 4 1/2 x 5 in. Sets of 4. Shpg. wt., 6 lbs. List, \$5.00**

**3B6556—Junior Box Shields in single lots. Shpg. wt., 2 lbs. List, \$2.00. Net. \$1.40**

## Our Special Aluminum Shields

A high grade wing type shield. This type is used in many well known circuits. Size 3 1/2 x 3 1/2 in. Shpg. wt., 1 lb.

**3B6557—List, per pair, 30c. Net. 18c**

## 1928 Model Marco Dial



**Beautiful Finer Smarter**

This is undoubtedly the most beautiful dial ever designed. It is

truly a 1928 model of greatly advanced design. The double tuning scale tells at a glance exactly where the dial is set. Upper scale is marked every 10 divisions while lower scale reads each division. Uses the celebrated Marco friction drive that banishes lost motion and makes tuning easier. It is the true vernier dial—far more precise, far speedier and far more beautiful than the dials of the past. Either illuminated or not as preferred. Shipping wt., 1 1/2 lbs.

**3B6561—Marco Dial. List, \$2.50. Net. \$1.50**

**3B6562—Illuminated Type. List, \$3.00. Net. 1.80**

## X-L Vario-Denser—Model G



Has variable capacity range. Easily gets value of grid capacity best suited for a particular tube or circuit. With grid leak clips. Shpg. wt., 4 oz.

**3B3102—.00002 to .0001 M. F. List price, \$1.50. Net. 89c**

**3B3103—.0001 to .0005 M. F. List price, \$1.50. Net. 89c**

**3B3104—.0003 to .001 M. F. List price, \$1.50. Net. 89c**

Neutralizes grid and plate capacity in tuned radio frequency sets. Micrometer adjustment.

**3B3105—Model N. List, \$1.00. Net. 59c**

## Muter Variable Condensers

Condensers with adjustable capacities. Black moulded bakelite shell 2 1/2 inches long, 2 1/2 inches wide. Holes for mounting 3/8 inch, 2 1/2 inches from center to center. Shpg. wt., 4 oz.

**3B3100—Variable balancing condenser, .000003 to .00005 M. F. List price, \$1.00. Net. 60c**

**3B3101—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3102—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3103—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3104—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3105—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3106—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3107—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3108—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3109—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3110—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3111—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3112—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3113—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3114—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3115—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3116—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3117—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3118—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3119—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3120—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3121—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3122—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3123—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3124—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3125—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3126—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3127—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3128—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3129—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3130—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3131—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3132—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3133—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3134—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3135—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3136—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3137—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3138—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3139—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3140—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3141—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3142—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3143—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

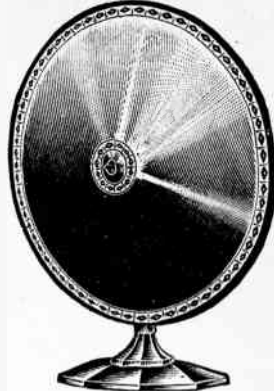
**3B3144—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3145—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3146—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3147—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**

**3B3148—Variable grid condenser, .00015 to .0005 M. F. List price, \$1.00. Net. 60c**



## W. E. Cone Type 540-AW

Diameter, 18 inches; height, 21 inches. The world's most popular speaker. Beautiful bronze base with bronze colored cone. True mellow reproduction. Shpg. wt., 15 lbs.

**2B5110—List \$32.00**

## W. E. Speaker 548-AW

A 36-inch cone, mounted on a pedestal. Stands 48 inches high.

**2B5109—Pedestal Type. Shpg. wt., 60 lbs. List, \$87.00**

**2B5111—Wall Type. Shpg. wt., 60 lbs. List, 60.00**

**3B5113—Unit for above Speakers. List, 17.00**

## Subpanel Brackets

Strong light weight aluminum brackets designed to accommodate sub-panel transformers. Two sizes. Shpg. wt., 6 oz.

**3B6565—2 1/2 in. high x 6 1/2 in. long. List, each 25c. Net. 15c**

**3B6566—2 1/2 in. high x 11 in. long. List, each 50c. Net. 28c**

## B. M. S. Short Jacks

Designed for limited space requirements. Single open circuit type only. Shpg. wt., 5 oz.

**3B2418—List, 13c**

price, 20c. Net.

## Bezels

Finish off holes in panel of any thickness. Best quality. Fine high quality finish.

Each

**3B8702—3/4-inch. Nickel. 12c**

**3B8703—1-inch. Nickel. 12c**

**3B8705—3/4-inch. Black. 12c**

**3B8706—1-inch. Black. 12c**

**3B8707—1 1/2-inch. Black. 12c**

**3B8708—3/4-inch. Gold. 20c**

**3B8709—1-inch. Gold. 20c**

## Switch and Pilot

A gentle reminder to turn off the radio. Brilliant jewel. Small 6 v. lamp. Complete with switch, lamp and jewel. Shpg. wt., 4 oz.

**3B2541—List, \$1.06. Net. 68c**

**3B2542—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2543—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2544—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2545—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2546—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2547—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2548—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2549—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2550—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2551—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2552—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2553—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2554—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2555—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2556—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2557—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2558—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2559—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2560—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2561—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2562—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2563—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2564—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2565—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2566—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2567—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2568—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2569—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2570—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2571—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2572—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2573—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2574—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2575—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

**3B2576—No. 310 Pilot Light only without switch. List, 80c. Net. 51c**

## Panel Light

Illuminates dials, making tuning easy. Mounts in 1/2 in. hole. Shipping wt., 4 oz.

**3B2543—No. 330. List, 80c. Net. 52c**

**3B2564—Panel Light Bulb. List, 30c. Net. 18c**

**3B2565—Pilot Light Bulb. Each, 20c. Ten for \$1.40**

## Lamp Bracket

Ideal for illuminating dials or as trouble lamp inside cabinet. Bulb runs from A battery. Complete with bulb.

**3B3881—List 40c. Net. 24c**

## Jeweled Pilot Light

This pilot light is mounted by nut behind the red jewel at back of panel. Shows when batteries are turned on. No bulb furnished—see page 94 for bulbs.

**3B3882—List, 40c. Net. 24c**



**Sub Antenna Underground Antenna System**

**Reduces Static**

A new underground antenna system. It completely replaces and does away with the up in the air type of aerial. Greatly improves radio reception of electrical energy. It is not just a wire. A scientifically designed radio wave builder—sorts the radio impulses from the static and other unwanted noises and then delivers the purified radio waves to the set. Does not deteriorate with age, the longer it remains in the ground the better it works. Shpg. wt., 20 lbs.

**3B2636—List, \$12.50. Net. \$7.35**





## CONSRAD PATTERNS

Consrad patterns contain complete instructions on how to build sets. Each packet treats one of the popular circuits, giving necessary instructions on how to put the apparatus together. Wiring diagrams and panel layouts included. Everything is so plain and clearly put that you can easily build even the most complicated set.

### 21 Radiophone Diagrams 29c

Consists of 24 Blueprint diagrams 8 1/2 by 11 1/2 inches and a 4-page instruction sheet giving directions on how to read diagrams together with illustrated symbol chart.

### All About Aerials 32c

3B1616—List, 50c. NET.... 32c  
Tells how to build the most practical and efficient types of antennae. Twelve complete diagrams.

### How to Make a Cockaday Set 32c

3B1618—List, 50c. NET.... 32c  
A four-circuit one-tube receiving set that can be built at low cost. Tunes very sharply and brings in distant stations with great volume.

### How to Make a Neurodyne 32c

3B1619—List, 50c. NET.... 32c  
Explains the construction of a 5-tube Neurodyne set and tells how to build it. The set is extremely selective and brings in distant stations clearly and distinctly.

### How to Make Wave Trap and Clarifier 17c

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Complete working diagrams and list of materials. With these instructions, it is very easy to build this equipment.

### Other Consrad "How to Make" Patterns 30c

- List price, each, 50c. NET....  
 3B1627—Two-Step Amplifier.  
 3B1628—Reinartz Receiver.  
 3B1631—Portable Receiver.  
 3B1632—Harkness Receiver.  
 3B1633—Low Loss Receiver.

### Blueprints of Popular Radio Circuit

- 3B5335—3-tube Reinartz.  
 3B5336—3-tube Cockaday.  
 3B5337—1-tube Reflex.  
 3B5338—5-tube Neurodyne, blueprint and layout.  
 3B5339—1-tube Reinartz, blueprint.  
 3B5334—2-stage Amplifier diagram.  
 3B5341—5-tube tuned radio frequency.  
 3B5342—1-tube Cockaday.  
 3B5343—Harkness 2-tube Reflex.  
 3B5344—1-tube Reflex.  
 3B5345—Push-pull Amplifier.  
 3B5346—Resistance Coupled Amplifier.  
 3B5347—1-tube 3-circuit tuner.  
 3B5348—1-tube Honeycomb coil receiver.  
 3B5349—1-tube 3-circuit regenerative.  
 3B5351—5-tube Cockaday resistance coupled set.  
 3B5352—Super-Heterodyne, Blueprint and layout.  
 3B5353—Karas Equamatic, blueprint and layout.  
 3B5354—1927 Popular Mechanics Super-Heterodyne.  
 3B5355—5-tube Diamond of the Air.  
 3B5356—3-tube short wave.  
 3B5357—Hammurudi-Roberts.  
 3B5358—Samson DeLuxe 5-tube T. C.  
 3B5359—5-tube Browning-Drake.  
 3B5360—Remler Best's Super-Net. Price, EACH PRINT..... 25c

# THE POPULAR RADIO BOOKS

## S. GEANSBACK'S Radio Encyclopedia

A thousand books in one! 168 pages of technical information, circuits, mechanical helps, history of radio, etc.; 1930 definitions, 549 photographs, drawings and diagrams. The most comprehensive and authentic book on radio ever published.  
**3B5377—List, \$2.00. .... \$1.45 NET**



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3B1603—List, 25c. NET..... 17c

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The Vacuum Tube is a marvelous piece of apparatus. A short study of it as given in this book gives you the principles on which every Vacuum Tube Radio Receiver operates.

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The man who wants to build only the most PRACTICAL Radio Sets that are guaranteed to give good results when properly constructed will need this book. Gives the principal successful hook-ups of practical Radio construction.

## Tips for the Radio Amateur Constructor

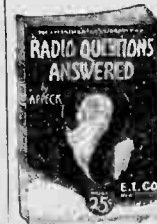
3B1601—List, 25c. NET..... 17c

Many men fail in building their Radio sets because of some trivial error that could easily have been corrected before it was too late. This book will help you avoid all the common pitfalls while building your Radio sets.

## Radio Questions Answered

3B1600—List, 25c. NET..... 17c

Question No. 1—What is Radio? This is the nature of the questions that this book answers. Then it answers questions on all the principal parts of a Radio Receiver. It is a handy book to keep in your Radio File.



## Reflex Radio Receivers 17c

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Hook-ups galore on the finest and most up-to-date reflex circuits in use today. Diagrams and descriptions on every modern reflex.

## How to Electrify Your Radio Set 17c

3B1671—List, 25c. NET..... 17c  
Gives complete information on changing over battery operated sets to straight A. C. operation.

## All About the Neurodyne 17c

3B1608—List, 25c. NET..... 17c  
Everybody knows the famous Neurodyne hook-up. One of the finest Radio Receivers in use today. This 51-page book gives an explanation of every detail of the Neurodyne and how it all works.

## How to Locate Troubles in Your Radio Set 17c

3B1610—List, 25c. NET..... 17c  
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## How to Tune Your Radio Set 17c

3B1606—List, 25c. NET..... 17c  
Don't struggle in the dark looking for stations—here is an inexpensive book that gives you detailed instructions on just how to handle your Radio set. You will be surprised at the increased results that can be obtained through proper tuning.



## RADIO IN DIX

A complete index of each broadcasting station in America. Shows where to set the dial for each station. Three complete indexes.  
 3B1639—Retail, 25c. NET..... 18c

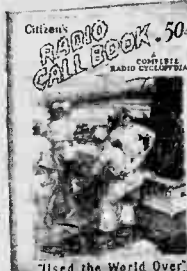
## The Radial Book 10c

3B1637—NET..... 10c  
Contains actual diagrams of the newest and best hook-ups, with full details of parts and construction. Also has sections on tubes, batteries and care of set, with tips on trouble shooting.



## Citizen's Radio Call Book

A complete radio encyclopedia. Newest radio information, including complete instruction on how to build all the newest circuits. Also contains list of world's broadcasting stations, radio announcers' directory, maps, log sheets, etc.  
 3B1642—Spring, 1927, Edition.  
 3B1666—Sept., 1927, Edition.  
 3B1667—Nov., 1927, Ed. (Ready Nov. list).  
 3B1668—Jan., 1928, Ed. (Ready Jan. list).  
 List, 50c. NET..... 32c



Popular Radio Books  
 3B1620—150 Radio Hook-Ups, List, 25c. NET. 17c  
 3B1622—Radio News Amateurs' Hand Book, List, 50c. NET. 33c  
 3B1623—Wireless Course in 20 Lessons, List, \$2.00. NET \$1.40  
 3B1625—1001 Radio Questions and Answers, List, 50c. NET. 33c  
 3B1672—Radio News Super-Heterodyne Book, List, 50c. NET..... 33c  
 3B1673—Television, List, 50c. NET..... 33c  
 3B1675—Radio Constructor (5 volumes), List, 2.00. NET..... \$1.40

## Radio Listeners' Guide and Call Book 35c

List, 50c. NET..... 35c  
NET..... 35c  
Contains complete information on theory and operation of radio, list of stations, hook-ups, radio maps, logs for each station, information on set building, etc.  
 3B1643—June, 1927, Edition.  
 3B1612—Sept., 1927, Edition.  
 3B1613—Dec., 1927, Ed. (Ready Dec. list).



# HOW TO ORDER PARCEL POST, FREIGHT AND EXPRESS CHARGES

## Our Prices Are Net

Net Prices quoted have all discounts deducted; no further discounts are allowed.

Our terms are Cash with order and we ship C. O. D. if you so desire. New customers wishing C. O. D. shipments, should remit a reasonable part payment with the order. All prices are F. O. B. Chicago or Factory and you must pay transportation charges except on orders for over \$50.00 as explained on Page 3, on which we allow freight charges. For orders totalling less than \$50.00 to be shipped by parcel post allow postage as shown in table below.

Special attention is given to all telephone and telegraph orders and we endeavor to ship all such orders within 2 hours after receipt.

We ask you to please not return goods for credit or exchange without our written authority. Merchandise shipped back must be in original containers. All returned goods must be prepaid.

### Table of Approximate Rates

Per 100 lbs. for Express and Freight

From Chicago to	Express per 100 Pounds		Freight per 100 Lbs.		From Chicago to	Express per 100 Pounds		Freight per 100 Lbs.	
	1st Class	2d Class	1st Class	2d Class		1st Class	2d Class	1st Class	2d Class
Alabama.....	\$3.75	\$2.40	Nebraska.....	\$3.90	\$2.25				
Arizona.....	7.30	3.77	Nevada.....	9.10	4.75				
Arkansas.....	3.59	1.60	N. Hampshire.....	4.00	1.49				
California.....	10.05	4.43	New Jersey.....	3.75	1.43				
Colorado.....	6.15	3.65	New Mexico.....	5.60	3.35				
Connecticut.....	3.85	1.49	New York.....	3.35	1.18				
Dalaware.....	3.70	1.42	No. Carolina.....	3.75	2.14				
Florida.....	5.05	2.20	Do. Dakota.....	4.50	2.60				
Georgia.....	3.50	2.32	Ohio.....	2.15	.80				
Illinois.....	7.90	3.14	Oklahoma.....	3.85	2.10				
Indiana.....	1.85	.75	Oregon.....	9.75	5.10				
Iowa.....	1.65	.70	Pennsylvania.....	3.75	1.40				
Kansas.....	2.57	.98	Rhode Island.....	4.00	1.49				
Kentucky.....	3.80	2.04	So. Carolina.....	4.10	2.29				
Lahoe.....	2.20	.98	So. Dakota.....	4.35	2.65				
Louisiana.....	4.20	2.06	Tennessee.....	3.30	1.75				
Maine.....	4.50	1.49	Texas.....	7.15	2.37				
Maryland.....	3.45	1.25	Utah.....	6.90	4.13				
Massachusetts.....	4.00	1.49	Vermont.....	3.95	1.31				
Michigan.....	3.95	1.09	Virginia.....	3.60	1.39				
Minnesota.....	3.60	1.49	Washington.....	9.45	5.10				
Mississippi.....	2.75	1.80	W. Virginia.....	2.95	1.03				
Missouri.....	2.62	1.22	Wisconsin.....	2.65	.98				
Montana.....	6.35	3.75	Wyoming.....	5.50	4.22				



## Parcel Post Rates

Packages Weighing from 8 ozs. to 20 lbs.

Packages Under 8 ounces, allow 4c to any Zone

WEIGHT In POUNDS	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	ZONE 6	ZONE 7	ZONE 8
	1 & 2 Up to 159 MILES From Chicago	3 150 to 300 MILES From Chicago	4 300 to 600 MILES From Chicago	5 600 to 1000 MILES From Chicago	6 1000 to 1400 MILES From Chicago	7 1400 to 1800 MILES From Chicago	8 1800 to 2400 MILES From Chicago	OVER 2400 MILES From Chicago
1	7c	8c	9c	10c	11c	12c	13c	14c
2	8c	10c	13c	16c	19c	22c	25c	26c
3	9c	11c	14c	17c	20c	23c	26c	28c
4	10c	12c	15c	18c	21c	24c	27c	29c
5	11c	13c	16c	19c	22c	25c	28c	30c
6	12c	14c	17c	20c	23c	26c	29c	31c
7	13c	15c	18c	21c	24c	27c	30c	32c
8	14c	16c	19c	22c	25c	28c	31c	33c
9	15c	17c	20c	23c	26c	29c	32c	34c
10	16c	18c	21c	24c	27c	30c	33c	35c
11	17c	19c	22c	25c	28c	31c	34c	36c
12	18c	20c	23c	26c	29c	32c	35c	37c
13	19c	21c	24c	27c	30c	33c	36c	38c
14	20c	22c	25c	28c	31c	34c	37c	39c
15	21c	23c	26c	29c	32c	35c	38c	40c
16	22c	24c	27c	30c	33c	36c	39c	41c
17	23c	25c	28c	31c	34c	37c	40c	42c
18	24c	26c	29c	32c	35c	38c	41c	43c
19	25c	27c	30c	33c	36c	39c	42c	44c
20	26c	28c	31c	34c	37c	40c	43c	45c
21	27c	29c	32c	35c	38c	41c	44c	46c
22	28c	30c	33c	36c	39c	42c	45c	47c
23	29c	31c	34c	37c	40c	43c	46c	48c
24	30c	32c	35c	38c	41c	44c	47c	49c
25	31c	33c	36c	39c	42c	45c	48c	50c
26	32c	34c	37c	40c	43c	46c	49c	51c
27	33c	35c	38c	41c	44c	47c	50c	52c
28	34c	36c	39c	42c	45c	48c	51c	53c
29	35c	37c	40c	43c	46c	49c	52c	54c
30	36c	38c	41c	44c	47c	50c	53c	55c
31	37c	39c	42c	45c	48c	51c	54c	56c
32	38c	40c	43c	46c	49c	52c	55c	57c
33	39c	41c	44c	47c	50c	53c	56c	58c
34	40c	42c	45c	48c	51c	54c	57c	59c
35	41c	43c	46c	49c	52c	55c	58c	60c
36	42c	44c	47c	50c	53c	56c	59c	61c
37	43c	45c	48c	51c	54c	57c	60c	62c
38	44c	46c	49c	52c	55c	58c	61c	63c
39	45c	47c	50c	53c	56c	59c	62c	64c
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41	47c	49c	52c	55c	58c	61c	64c	66c
42	48c	50c	53c	56c	59c	62c	65c	67c
43	49c	51c	54c	57c	60c	63c	66c	68c
44	50c	52c	55c	58c	61c	64c	67c	69c
45	51c	53c	56c	59c	62c	65c	68c	70c
46	52c	54c	57c	60c	63c	66c	69c	71c
47	53c	55c	58c	61c	64c	67c	70c	72c
48	54c	56c	59c	62c	65c	68c	71c	73c
49	55c	57c	60c	63c	66c	69c	72c	74c
50	56c	58c	61c	64c	67c	70c	73c	75c
51	57c	59c	62c	65c	68c	71c	74c	76c
52	58c	60c	63c	66c	69c	72c	75c	77c
53	59c	61c	64c	67c	70c	73c	76c	78c
54	60c	62c	65c	68c	71c	74c	77c	79c
55	61c	63c	66c	69c	72c	75c	78c	80c
56	62c	64c	67c	70c	73c	76c	79c	81c
57	63c	65c	68c	71c	74c	77c	80c	82c
58	64c	66c	69c	72c	75c	78c	81c	83c
59	65c	67c	70c	73c	76c	79c	82c	84c
60	66c	68c	71c	74c	77c	80c	83c	85c
61	67c	69c	72c	75c	78c	81c	84c	86c
62	68c	70c	73c	76c	79c	82c	85c	87c
63	69c	71c	74c	77c	80c	83c	86c	88c
64	70c	72c	75c	78c	81c	84c	87c	89c
65	71c	73c	76c	79c	82c	85c	88c	90c
66	72c	74c	77c	80c	83c	86c	89c	91c
67	73c	75c	78c	81c	84c	87c	90c	92c
68	74c	76c	79c	82c	85c	88c	91c	93c
69	75c	77c	80c	83c	86c	89c	92c	94c
70	76c	78c	81c	84c	87c	90c	93c	95c
71	77c	79c	82c	85c	88c	91c	94c	96c
72	78c	80c	83c	86c	89c	92c	95c	97c
73	79c	81c	84c	87c	90c	93c	96c	98c
74	80c	82c	85c	88c	91c	94c	97c	99c
75	81c	83c	86c	89c	92c	95c	98c	1.00
76	82c	84c	87c	90c	93c	96c	99c	1.01
77	83c	85c	88c	91c	94c	97c	1.00	1.02
78	84c	86c	89c	92c	95c	98c	1.01	1.03
79	85c	87c	90c	93c	96c	99c	1.02	1.04
80	86c	88c	91c	94c	97c	1.00	1.03	1.05
81	87c	89c	92c	95c	98c	1.01	1.04	1.06
82	88c	90c	93c	96c	99c	1.02	1.05	1.07
83	89c	91c	94c	97c	1.00	1.03	1.06	1.08
84	90c	92c	95c	98c	1.01	1.04	1.07	1.09
85	91c	93c	96c	99c	1.02	1.05	1.08	1.10
86	92c	94c	97c	1.00	1.03	1.06	1.09	1.11
87	93c	95c	98c	1.01	1.04	1.07	1.10	1.12
88	94c	96c	99c	1.02	1.05	1.08	1.11	1.13
89	95c	97c	1.00	1.03	1.06	1.09	1.12	1.14
90	96c	98c	1.01	1.04	1.07	1.10	1.13	1.15
91	97c	99c	1.02	1.05	1.08	1.11	1.14	1.16
92	98c	1.00	1.03	1.06	1.09	1.12	1.15	1.17
93	99c	1.01	1.04	1.07	1.10	1.13	1.16	1.18
94	1.00	1.02	1.05	1.08	1.11	1.14	1.17	1.19
95	1.01	1.03	1.06	1.09	1.12	1.15	1.18	1.20
96	1.02	1.04	1.07	1.10	1.13	1.16	1.19	1.21
97	1.03	1.05	1.08	1.11	1.14	1.17	1.20	1.22
98	1.04	1.06	1.09	1.12	1.15	1.18	1.21	1.23
99	1.05	1.07	1.10	1.13	1.16	1.19	1.22	1.24
100	1.06	1.08	1.11	1.14	1.17	1.20	1.23	1.25

If the weight of package exceeds 20 lbs., add 1c for each additional pound or fraction of pound if you live in the 1st and 2nd zones, 2c extra if you live in the 3rd zone, 4c extra if you live in the 4th zone, 6c extra if you live in the 5th zone, 8c extra if you live in the 6th zone, 10c extra if you live in the 7th zone, and 12c extra if you live in the 8th zone. NOTE:—Packages weighing over ½ lb. (8 ozs.) and not more than 1 lb. take 1 lb. rate. Packages weighing over 1 lb. and less than 2 lbs. take the 2 lb. rate. Always use the next higher pound rate for pounds and fractional pounds.

## How to Figure Express Charges

(1) Total up weights of items ordered, as shown on Order Blank. (2) Refer to table above for approximate Express Rates per hundred pounds to your state. (3) Then refer to left hand column of table below and find weight which corresponds with weight of goods you are ordering. (4) Follow to the right, line opposite the weight of goods on your order, through the columns to the column headed by the rate per 100 lbs. to your state. The amount in this Column will be the express charges on your goods.

## Table of Express Charges Based upon Rate per 100 pounds

If Rate per 100 Pounds is	\$1.25	\$1.45	\$2.15	\$2.65	\$2.95	\$3.45	\$3.75	\$4.00	\$4.25	\$4.50	\$5.50	\$6.90
Package not over												
1 Pound.....	\$ .36	\$ .36	\$ .37	\$ .37	\$ .38	\$ .38	\$ .38	\$ .39	\$ .39	\$ .39	\$ .40	\$ .42
2 Pounds.....	.37	.37	.39	.40	.40	.41	.42	.42	.43	.43	.45	.48
3 Pounds.....	.38	.38	.40	.42	.43	.43	.45	.46	.47	.47	.50	.55
4 Pounds.....	.39	.39	.42	.44	.45	.47	.49	.50	.51	.52	.56	.61
5 Pounds.....	.40	.40	.44	.46	.48	.50	.52	.53	.54	.56	.61	.68
10 Pounds.....	.43	.44	.53	.58	.61	.66	.69	.71	.74	.76	.86	1.00
15 Pounds.....	.48	.49	.62	.69	.74	.81	.86	.90	.93	.97	1.12	1.33
20 Pounds.....	.52	.54	.71	.81	.87	.97	1.03	1.08	1.13	1.18	1.38	1.66
25 Pounds.....	.56	.59	.80	.92	1.00	1.12	1.20	1.26	1.32	1.39	1.64	1.99
30 Pounds.....	.60	.63	.89	1.04	1.13	1.28	1.37	1.44	1.52	1.59	1.89	2.31
35 Pounds.....	.65	.68	.98	1.15	1.26	1.43</						



# This INDEX LOCATES YOUR WANTS QUICKLY

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WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

# The Great Barawik Symphonic Cone

**Free Edge**

**Supreme Tone Quality, Volume and Beauty**



The most amazing value in a fine cone speaker ever offered. Thousands of them in satisfactory use all over the world. Not a cheap cone at a price, but a real Barawik super value!

Perfect reproduction is obtained with this new Cone speaker. The full resounding basses of the organ, the high trebles of the flute and violin are faithfully and distinctly reproduced. No sacrifice of either end of the musical scale is made. Used with any receiver it will improve the set's tone quality.

**Tremendous Volume**

To obtain volume from a cone speaker a large unit with heavy magnets is absolutely necessary, and in this respect the adjustable driving Unit used in this speaker has few equals. The full timbre of the symphony with the shading overtones that distinguish good music is reproduced with amazing volume by this wonderful cone speaker.

**Large Diaphragm Cone**

A splendid, large, adjustable unit actuates the diaphragm. The method of coupling the unit and diaphragm is distinctive and is a feature not found in any other cone speaker. The base is metal finely finished. Diameter of cone 1 1/2 inches.

Retail  
**\$9.50**

Your Special Price  
**\$3.85**  
**NET**

The price at which we offer this free edge cone cannot indicate its value. It must be heard to be fully appreciated.

2B5103—List. \$9.50. Your Price.....  
Same style speaker having a 20 inch cone instead of 14 1/2 inch as above.  
2B5153—List. \$13.50. Your Price.....\$5.95

## Barawik Mogul "B" Power Unit

**Greatest Value Ever Offered**

**Fixed Resistor Type**

The Barawik Mogul "B" Power Unit supplies the long felt demand for a "B" eliminator that is really good and that will perform its part in a highly efficient way. After a long search through the radio market we finally found an eliminator deserving of the Barawik name. We offer it as the best that can be obtained. One evening's test will thoroughly convince you of its superiority.

It has long been known that the most vital part of a "B" Eliminator is the filter and that the most important unit of the filter is the condenser block. Therefore we obtained a condenser of the finest quality—one that will handle any "B" Unit and still have a very wide margin of safety. This block is made by the most advanced methods and made to last.

Thus, we have developed an eliminator that is as nearly perfect as can be made by skilled radio-electrical engineers. It is undoubtedly the best value on the market today.

To make certain that no trouble would be experienced in voltage control we selected one of the most modern methods of obtaining voltage taps. Fixed resistors replace the old variable type because they have been found to be best. The special high grade fixed resistors are accurate and permanent, assuring constant voltage at all times. Sufficient taps are provided for all conditions and all sets. This combined with the wonderful filter gives a current flow that is constant, noiseless, humless, steady and powerful. The filter smooths out every ripple and hum. Every part in the device is manufactured by skilled workmen and from the very finest materials. After manufacture all parts must pass very severe tests to gain admission to this product. We offer it to anyone on a strictly quality-performance basis.

It employs either a half wave or full wave rectifier tube insuring long life and stability. The rating is 40 mls at 150 volts and it delivers 180 volts to the power tube. Easily handles up to ten ordinary tubes, including power tubes. We invite you to compare it to any other eliminator on the market regardless of cost or make.

Very attractive in appearance, the case of metal with brown lacquer finish and black Bakelite front panel. Size 6 1/2 in. wide, 7 in. high, 8 1/2 in. long. Shipping weight, 20 lbs.

2B5288—For Raytheon Tube. List with tube, \$39.50. NET.....

2B5298—For UX280 Tube. List with tube, \$41.00.

NET .....**\$19.95**



**No Adjustments to Make**

**\$18.95**



# Barawik Supreme "B" Power Unit

Uniform, Constant, Unfailing—The Greatest  
Advancement in "B" Eliminator Construction

Variable  
Resistor  
Type

Adjustable  
to Any  
Conditions  
at Any  
Time

No Hum  
No  
Motor  
Boating

No  
"Sizzling"  
Noises



Extremely  
Compact  
Fits All  
Consoles

Always Quiet  
in Operation

Super Power  
for Sets Up to  
and Including  
10 Tubes

Compact - Fits  
Most  
Consoles

Costs Less to  
Operate

An Amazing  
Value at the  
Special  
Barawik  
Price

We believe this to be the lowest priced, high-quality, successful, B socket power unit on the market. After perfecting the design, establishing its unfailing power and operation we collaborated with the factory in its mass production, in supplying our thousands of dealers, to the end that its cost might be brought to the minimum.

While it takes but minimum space, this compact unit has been accomplished simply through the ingenious arrangement of parts. The units of construction are in themselves actually oversize. Here is another example that merchandising and manufacturing genius may be combined to produce products of astounding merit.

Made especially for us with the very latest exclusive hook-up. It brings to the set that smooth, even, powerful flow of current needed in amplification, that brings out clearly and strongly every tone. It handles all sets up to 10 regular tubes or their equivalent in regular and power tubes. Variable resistances control the current input to Detector, Intermediate, and Amplifier tubes.

The filter system is of extra capacity, smoothing out every ripple and hum from the alternating light socket current. There is nothing to deteriorate, wear out, or replace—it will last a lifetime. Extraordinary large capacity, rating 60 mils. at 180 volts—

sufficient reserve for all conditions and ranking with the largest, finest units made.

The case is of a shape to fit easily into the new compact consoles so much in vogue. Only 4½ inches wide, it may be set in beside horns or other units. Only 13 inches long including the knobs and 6 inches high. Beautiful dark crystalline finish. Taps plainly marked—Neg., Det., Int., Power, the variable resistances, Det., Int. and Power, making the installation and operation easy for even the most inexperienced operator.

We can freely recommend and guarantee this splendid, perfected, advanced "B" power unit. Due to the precision and care with which the filter circuit has been devised and constructed, enormous power is provided without the slightest hum or noise of any kind. Even with the most sensitive receivers and speakers, under heavy load, its operation is absolutely quiet. When properly adjusted, it will not "motor boat"—its current delivery is even and constant! Shipping weight, 15 lbs.

2B5289—Complete  
with Raytheon or Q.  
R. S. 85 Mil. Recti-  
fying tube.  
List, \$32.50.  
Net, each.....

**\$16<sup>95</sup>**

# Barawik Sets the Pace in Radio Set Values With This New Line of Receivers

Beverly  
Model  
Console

Inbuilt  
Air-Column  
Speaker

**Marvelo**  
6-Tube  
Illuminated  
Single Dial  
Shielded  
Receiver



Net Wholesale

**\$53.95**

Retail Price

**\$110.00**

A Beautiful Piece of Richly Finished Furniture is this Fine Console.

Never before a Value Like this—Challenges All Competition.

43 1/4 inches high, 26 1/2 inches wide, 14 inches deep. The battery compartment at bottom is 22 inches wide, 10 1/2 inches high, 12 inches deep, providing all space necessary for power units.

Manufactured under patents of Radio Corporation of America, Westinghouse Electric and Manufacturing Company, and American Electric Company, and American Telephone and Telegraph Company—Licensed

No longer need the family of modest means be denied the privilege and delight of ownership of a fine, efficient and beautiful console receiver! In this Beverly Model of the great Marvelo Single Control completely shielded six tube receiver, we find the very utmost in value and efficiency in radio reception

marks the success of the Barawik idea of placing within the reach of all the best that radio has to offer.

### A Truly Beautiful Console

This Console is made of American walnut, with the front panel of selected Burl grain with a cut-in chasing effect that sets the fine wood off to the very best advantage. The legs are beautifully turned and the pilasters have deep fluting. Speakers grille is made in the popular colonnade effect. Console measures overall



### WHOLESALE PRICE LIST

**1B13050**—Set Complete, without accessories, but with inbuilt loudspeaker. List, \$125.00. Net Wholesale, **\$53.95**

### For Battery Operation

**1B13051**—Set Complete, with A.I. Accessories for Battery Operation, including four 201A type, one 200A type and one 112A type power tubes, one Barawik 120-amp. "A" Storage Battery, two 4 1/2 v. "C" batteries, three large 4 1/2 v. "B" batteries and complete Antenna and Ground Outfits. List, \$175.00. Net Wholesale, **\$79.85**

### For Socket Power Operation

**1B13052**—Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112A type power tubes, Abox "A" Eliminator, Barawik Supreme "B" Eliminator, two 4 1/2 v. "C" batteries and necessary Antenna and Ground Outfits. List, \$210.00. Net Wholesale, **\$99.85**

**1B13053**—Set Complete for Straight Electric Operation, including four 226 type, one 227 type and one 112 type A. C. Tubes, necessary ground and antenna outfits; complete with all equipment ready to plug into light socket. List, \$190.00. Net Wholesale, **\$99.85**

**1B13054**—Marvelo Single Control Shielded Six CHASSIS Only, for battery or socket power operation. List, \$60.00. Net Wholesale, **\$29.40**