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

The Consolette 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

For Battery Operation

1B13136—Set Complete, with all accessories for battery operation, including four 20A 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. List, $145.00. Net Wholesale, $72.25

For Socket Power Operation

1B13137—Set Complete, for Socket Power Operation, including four 20A 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. Net Wholesale, $89.95
Lowest Wholesale Prices

Prices quoted in this catalog are confidential Lowest Wholesale Prices. Please do not divulge these prices to anyone outside your 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 Merchandis 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.

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.

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.

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 $500

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 shipping box 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, "A" 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.

World Radio History
Radio's Most Powerful, Easiest Operated, Purest Toned, Most Dependable Receiver is Here

At Last!

The MARVELO

Single Control—Illuminated Dial

Completely Shielded

The 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 6-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 trueness 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 6-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 spent 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

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

Completely Shielded
All metal chassis, completely enclosing all parts, prevents interference, and protecting the instruments from dust and humidity. Keeps out most microphonics noises, suppresses outside interference, possesses resonance selectivity. Each part securely anchored, ensuring permanent alignment and perfect operation even after long shipping hauls.

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

Perfected Balanced Circuit
The result of years of development, test and experience by our radio engineers. One untuned, two tuned radio frequency stages, one Detector, and two stages of oscillator Audio Amplification. Free from hum, no false sounds, places finely into station after station. Ease of control is a wonder to all who use 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 direct distance to "broadcast" for tuning in distant stations with volume. Actually makes two sets in one, the one for constant 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 the utmost reproduction, registering all the frequencies within reach of the human ear. As illustration shows, these transformers are encased in a special separate shielded case.

Don't Be Fooled by "Low" Prices
There are many sets now on the market of the same general design as the MARVELO Shielded 6 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 at a minimum price, 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

<table>
<thead>
<tr>
<th>Set</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1B13185 - Set with fine walnut finished Cabinet, but without accessories. List, $75.00. NET.</td>
<td>$35.80</td>
</tr>
<tr>
<td>1B13186 - Set Complete with all accessories for Battery Operation including four 20A type, one 260A type and one 112 type power tubes, one Barawik 120-min. &quot;A&quot; Storage Battery, two 45 volt &quot;C&quot; batteries, three large 45 volt &quot;B&quot; batteries and complete Antennas and Ground outfits. List, $120.00. NET.</td>
<td>$62.50</td>
</tr>
<tr>
<td>1B13187 - Set Complete for Socket Power Operation, including four 20A type, one 260A type and one 112 type power tubes, Barawik Special &quot;Y&quot; Eliminator, Barawik Special &quot;R&quot; Eliminator, two 41 volt &quot;U&quot; batteries and complete Antennas and Ground outfits. List, $152.00. NET.</td>
<td>$81.25</td>
</tr>
<tr>
<td>1B13188 - Set Complete for Straight Electric Operation with four CX226, CX227 and one TV112 A. C. Tubes, Plate and filament current supplies, necessary Ground and Antenna outs, all equipped to plug into light socket. List, $151.00. NET.</td>
<td>$81.25</td>
</tr>
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</table>

If You Desire a Special Cabinet or Console
For those who have a cabinet or console, or desire to select a special one from those shown on pages 114 to 125 of this book, we offer the Chassis of this fine receiver separately:

<table>
<thead>
<tr>
<th>Set</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1B13189 - MARVELO 6 Single Control Illuminated Dial Shielded Chassis only (see size in panel above). List, $50.00. NET.</td>
<td>$29.40</td>
</tr>
</tbody>
</table>

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, flowing and inlay effect give it a most striking appearance. Sliding shelf for cone or horn speaker. Outside dimensions: Width, 18 inches; depth, 15 inches; height, 30 inches. Battery compartment provides sufficient space for all batteries, chargers or power units. Shipping wt., 40 lbs.

List, $23.50. NET. EACH

$13.95

1B68676 - Table Only

 Speakers Shelf at Left End
See Barawik Special Cone Offer on Page 130

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3
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. Rich, 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, 23 1/2 in. wide, 18 in. deep.

WHOLESALE PRICE LIST

IB1307—Set Complete, without accessories, but with inbuilt loudspeaker. List $120.00. YOUR NET COST $65.50

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 4 1/2 v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground Outfits. List $170.00. YOUR NET COST $91.75

IB13073—Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, one Barawik Supreme "B" Eliminator, two 4 1/2 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 $80.00. 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. Beautiful rich warm finish. Outside dimensions: 44 in. high, 26 in. wide, 16 in. deep.

MARVEL6
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

I B 1 3 0 7 7—Set Complete, without accessories, but with inbuilt loudspeaker.
List, $145.00. YOUR NET COST........ $72.50

For Battery Operation

I B 1 3 0 7 8—Set Complete with All Accessories for Battery Operation, including four 201 A type, one 29A type and one 112 type power tubes, one Barawik 123-amp. "A" Storage Battery, 202A type batteries, three large 45 v. "C" batteries and complete Antenna and Ground Outfits.
List, $155.00. YOUR NET COST........ $98.75

For Socket Power Operation

I B 1 3 0 7 9—Set Complete for Socket Power Operation, including four 201 A type, one 29A type and one 112 type power tubes, four 29A type, two 202A type and one 112 type A, G. Tubes, necessary ground and antenna outfits; complete with all equipment ready to plug into light socket.
List, $225.00. YOUR NET COST........ $116.50

For Battery or Socket Power Operation

I B 1 3 0 8 0—Marvelo Single Control Shielded Six CHASSIS Only for Battery or socket power operation.
List, $50.00. 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
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 raises 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: 46 in. high, 25 in. wide, 19 in. deep.

WHOLESALE PRICE LIST

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>IB1300</td>
<td>Set, Complete, without accessories, but with built-in loudspeaker</td>
<td>$150.00</td>
</tr>
<tr>
<td>NET WHOLESALE</td>
<td></td>
<td>$79.50</td>
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For Battery Operation

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>IB1301</td>
<td>Set, Complete with All Accessories for Battery Operation including four 261 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</td>
<td>$105.75</td>
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For Socket Power Operation

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>IB1302</td>
<td>Set, Complete for Socket Power Operation including four 261 type, one 200A type and one 112 type A. C. Tubes, necessary ground and antenna outlets, complete with all equipment ready to plug into light socket</td>
<td>$123.50</td>
</tr>
</tbody>
</table>

Marvelo Single Control Shielded Six CHASSIS Only, for battery or socket power operation | $29.40
MARVELO
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 utmost in its rich, full rounded, powerful reproduction. Together with the splendid audio system of the set itself it brings the utmost 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 4½ in. high, 24½ in. wide, 18 in. deep.

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

1Bi 3106—Set Complete, without accessories, but with inbuilt loudspeaker. List: $129.00. NET WHOLESALE $65.95
For Battery Operation

1Bi 3107—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 Antennas and Ground Outfits. List: $210.00. NET WHOLESALE $92.20

For Socket Power Operation

1Bi 3108—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 4½ v. "C" batteries and necessary Antenna and Ground Outfits. List: $170.00. NET WHOLESALE $109.95

1Bi 3109—Marvelo Single Control Shielded Six CHASSIS Only for battery or socket power operation. List: $86.00. NET WHOLESALE $29.40

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 Adams 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, 18 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 AS PER OFFER GIVEN ON PAGE 3

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 Adams 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, 18 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 AS PER OFFER GIVEN ON PAGE 3
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 metal 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 outside interference and absorbing the natural internal operating noises of the set. Richly finished in a neutral shade lacquer—a very beautiful and finished appearance.

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, selectivity and sensitivity is each thoroughly tested on the air and no receiver is passed unless it reaches the high standards of Marvelous 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 Marvel 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.
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, 23 inches wide, 12½ 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 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. NET $63.00 |
| 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. | List $172.00. NET $89.50 |
| 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 "G" Batteries and necessary Ground and Antenna outfits. Shipping weight, 100 lbs. | List $212.00. NET $109.25 |
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
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

IB13161—Complete with built-in speaker, but without accessories. Shipping weight, 105 lbs.
List $155.00. NET $78.50

For Battery Operation

IB13162—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 145 v. “B” Batteries, 9 v. “C” Batteries and necessary Antenna and Ground outfits.
Shipping weight, 205 lbs.
List $187.00. NET $105.00

For Socket Power Operation

IB13163—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 Eliminator, 9 volts “C” Batteries, necessary Antenna and Ground outfits. Shipping weight, 195 lbs.
List $237.00. NET $124.75

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 7/8 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 selectivity, 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

For Battery Operation

<table>
<thead>
<tr>
<th>Model</th>
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<td>B13166</td>
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For Socket Power Operation

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<tbody>
<tr>
<td>B13167</td>
<td>$69.00</td>
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</table>

Magnificent Tudor Console Model

MARVELO 7
Drum Control

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, 18 3/4 in. deep.

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

For Battery Operation

<table>
<thead>
<tr>
<th>Model</th>
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For Socket Power Operation

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<tr>
<td>B13172</td>
<td>$69.00</td>
<td>$95.50</td>
</tr>
</tbody>
</table>
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.

Marvelous Performance

Piercing the air from coast to coast, the Marcelo 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

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<td>1B13176</td>
<td>Complete, without accessories, but with built-in loud-speaker. List, $150.00</td>
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For Battery Operation

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<tr>
<td>1B13176</td>
<td>Complete, with all accessories for Battery Operation, including five 201A type, one 200A type and one 112 type power tubes, one Harwick 120-cap. &quot;A&quot; Storage Battery, two 4 1/2 v. &quot;C&quot; batteries, three large 45 v. &quot;B&quot; batteries and complete Antenna and Ground Outfit.</td>
<td>$111.50</td>
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For Socket Power Operation

<table>
<thead>
<tr>
<th>Model</th>
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<th>Net Wholesale</th>
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</thead>
<tbody>
<tr>
<td>1B13177</td>
<td>Complete, for Socket Power Operation, including five 201A type, one 200A type and one 112 type power tubes, Aloka &quot;A&quot; Kinetuator, Harwick Master &quot;B&quot; Kinetuator, two 4 1/2 v. &quot;C&quot; batteries and necessary Antenna and Ground outfits.</td>
<td>$131.26</td>
<td></td>
</tr>
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</table>

MARVELO 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 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 circuit 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 on a 10 day free trial basis, as explained on Page 3.

Wholesale Price List

IB13056—Set Complete, without accessories. List. $60.00. NET WHOLESALE $26.95

For Battery Operation

IB13057—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. $110.00. NET WHOLESALE $53.75

For Socket Power Operation

IB13058—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. $140.00. NET WHOLESALE $72.70

IB13059—Marvelo Twin Dial Six Chassis only. List. $45.00. NET WHOLESALE $19.95
Note These Special Features of the MARVELO TWIN DIAL 6

The Panel
All metal, rich walnut grain finish with gold striping. Size, 7x1.8 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 receives the 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 bedroom pieces! It is 40 inches long, 16 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
IB13061—Set Complete, without accessories.
Shipping wt., 100 lbs.
List. $110.00. NET WHOLESALE..........
$52.75

For Battery Operation
IB13062—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., 146 lbs. List. $190.00. NET WHOLESALE..........
$78.95

For Socket Power Operation
IB13063—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. $180.00. NET.............
$98.75

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

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

Wholesale Price List

IB13-115—Set Complete, without accessories. Shipping wt., 120 lbs.
List. $125.00. NET WHOLESALE...
$63.00

For Battery Operation

IB13-116—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 ½ v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground outfits. Shipping wt., 210 pounds.
List. $175.00. NET WHOLESALE...
$89.25

For Socket Power Operation

IB13-117—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 ½ v. "C" batteries and necessary Antenna and Ground outfits. Shipping wt., 180 lbs.
List. $205.00. NET...
$107.00

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 30 in. high, 28 ½ in. wide, 18 in. deep.
The receiver is the Marvel TWIN Dial 6 described in detail on pages 16 and 17.

IB13-120—Set Complete, without accessories. Shipping wt., 110 lbs.
List. $105.00. NET WHOLESALE...
$55.75

For Battery Operation

IB13-121—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 ½ v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground outfits. Shipping wt., 215 pounds.
List. $155.00. NET WHOLESALE...
$81.95

For Socket Power Operation

IB13-122—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 ½ v. "C" batteries and necessary Antenna and Ground outfits. Shipping wt., 195 lbs.
List. $185.00. NET...
$99.75

THE BARAWIK CO., CHICAGO, U. S. A.
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 efforts 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 1/4 in. high, 23 1/2 in. wide, 17 1/8 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

**MARVELO TWIN DIAL 6**

**Easy Chair Model**

$49.95

For Battery Operation

$76.20

For Socket Power Operation

$93.95

**MARVELO TWIN DIAL 6**

**Consolette 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 Consolette 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.
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 any 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<td>Set complete, without accessories</td>
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<tr>
<td>IB 13092</td>
<td>Set complete with All Accessories for Battery Operation, including two matched 264 type tubes, one 12A Am. A , A Storage Battery, two large 45 v. A batteries and complete Antenna and Ground outfits</td>
<td>$79.50</td>
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<td>IB 13093</td>
<td>Set complete for Socket Power Operation, including four matched 264 type tubes, one 12A type power tubes, 11A Eliminator, 11A Eliminator, 11A battery and necessary Antenna and Ground outfits</td>
<td>$117.50</td>
<td>$63.95</td>
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<td>IB 13094</td>
<td>Chassis Only—without cabinet, without accessories</td>
<td>$35.00</td>
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Console Table

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

<table>
<thead>
<tr>
<th>Code</th>
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</tbody>
</table>
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 gen-
ue Utah unit. Top raises. Ample space for bat-
teries and power units is found in the roomy lower
compartment around the speaker. Outside dimensions:
Height, 35½ inches; width, 23½ inches; depth,
7¾ 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 prominent 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 more detailed description of the chassis.

Wholesale Price List
IBI3083—Set Complete, without ac-
cessories. List, $80.00.
NET $47.50

For Battery Operation
IBI3084—Set Complete with All Accessories for Battery
Operation including five matched 201A type tubes, one Bar-
wik 120-Amp. "A" Storage Battery, "C" battery, two large 45
v. "B" batteries and complete Antenna
and Ground outfits. List, $128.50.
NET WHOLESALE $67.95

For Socket Power Operation
IBI3085—Set Complete for Socket Power Operation in-
cluding four matched 201A type, one 112A type power tubes,
Avox "A" Eliminator, Barawik "B" Eliminator, "C" bat-
tery and necessary Antenna and Ground outfits. List, $167.50.
NET $91.95

Unmatched for Value
Here we have proof of Barawik's leadership in bring-
ing 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
IBI3087—Set Complete, without ac-
cessories. List, $80.00.
NET $42.50

For Battery Operation
IBI3088—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.
NET $62.95

For Socket Power Operation
IBI3089—Set Complete for Socket Power Operation in-
cluding four matched 201A type, one 112A type power tubes,
Avox "A" Eliminator, Barawik "B" Eliminator, "C" bat-
tery and necessary Antenna and Ground outfits. List, $187.50.
NET $86.50

WE PAY FREIGHT AS PER OFFER ON PAGE 3
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 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 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, 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 smooth, 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 exceeded 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 (padded detector), dial, controls, are all precision built. Assembly is by highly skilled radio technicians 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.
Shipping weight, 70 lbs. List, $85.00. NET... $52.35

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 120-amp. "A" Storage Battery, four large 45 v. "B" Batteries, 13½ volts "C" Batteries and complete Antenna and Ground Outfits. Shipping weight, 165 lbs. List, $158.00. NET... $92.95

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. List, $188.00. NET... $105.50

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
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

<table>
<thead>
<tr>
<th>List Value</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>201A Type Tubes @ $1.75</td>
<td>$7.00</td>
</tr>
<tr>
<td>200A Type Power Detector Tube</td>
<td>4.00</td>
</tr>
<tr>
<td>112 Type Power Amplifier Tube</td>
<td>4.50</td>
</tr>
<tr>
<td>2 4½ Volt Bright Star “H” Batteries @ 60c</td>
<td>1.25</td>
</tr>
<tr>
<td>1 Pioneer Alox “A” Power Unit</td>
<td>32.50</td>
</tr>
<tr>
<td>1 Complete Ground and Antenna Outfits</td>
<td>3.50</td>
</tr>
<tr>
<td><strong>Total Retail Value</strong></td>
<td><strong>$92.45</strong></td>
</tr>
<tr>
<td><strong>28308—Your Net</strong></td>
<td><strong>$44.85</strong></td>
</tr>
</tbody>
</table>

For 5 Tube Sets

Same as above except with four 201A type and one 112 type power amplifier tubes. **Total Retail Value, $94.20. 286368—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, $96.00. 286369—Your Net Cost, $46.55.**

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

<table>
<thead>
<tr>
<th>List Value</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>201A Type Tubes @ $1.75</td>
<td>$7.00</td>
</tr>
<tr>
<td>200A Type Power Detector Tube</td>
<td>4.00</td>
</tr>
<tr>
<td>112 Type Power Amplifier Tube</td>
<td>4.50</td>
</tr>
<tr>
<td>1 Pioneer Alox “H” Power Unit</td>
<td>37.75</td>
</tr>
<tr>
<td>1 Pioneer Alox “A” Power Unit</td>
<td>32.50</td>
</tr>
<tr>
<td>2 4½ Volt Bright Star “C” Batteries @ 60c</td>
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</tr>
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<td><strong>$92.45</strong></td>
</tr>
<tr>
<td><strong>28308—Your Net</strong></td>
<td><strong>$44.85</strong></td>
</tr>
</tbody>
</table>

For 5 Tube Sets

Same as above except with four 201A type and one 112 type power amplifier tubes. **Total Retail Value, $94.20. 286368—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, $96.00. 286369—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 are separate and distinct from the receiver and operate strictly independently, except that each employs the same loudspeaker. 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 pages 6 and 7. 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 music from the record as it has come from the special electrical reproducer. This arrangement enables the phonograph to reproduce the musical qualities of radio. The audio frequencies are picked up from the record pass through this special amplification system, which employs special 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 an enlargement of the bass and crossfrequencies of the higher tones, as in the case with some systems. Reproduction is pure, full and vibrant—an effect that cannot be imagined, but is the marvel and delight of all who hear it. There is practically 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 routing and a two-tone overlay effect as shown. It stands 40 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, 359 lbs.

IB12105—Complete with all tubes and equipment, including Ground and Antenna outfits for Radio Receiver. Retail List Value, $350.00.

Net Wholesale $195.00

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 arc, 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.

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 2911 type tubes; three 1 ½ volt "A" Batteries; two 45-volt "B" batteries; and one 1 ½ volt "C" battery.

IB6357—Set only, no Equipment. Retail Price, $95.00. NET
WHOLESALE.................. $55.86

IB6358—Set Complete with all accessories as specified above. Retail Price, $115.00. NET.
WHOLESALE.................. $69.00

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 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 ½ inches deep, 10 inches high, 12 ½ inches wide—no larger than an ordinary small hand-case. 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.

IB5515—Set only. List Price, $65.00. NET. EACH.............. $38.20

IB5517—Set complete with all accessories (tubes and batteries) ready to operate. List price, $85.00. NET........ $50.00

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.

Single Control—Illuminated Dial

The set is completely controlled from the panel, the margin being turned on and off by a special switch. Tuning is done by a single control. Precision made at every stage, each R.F. Stage separately and accurately shielded, selectivity is surprisingly 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 serves 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 "grand 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 microphone noises of any kind to mar the sweet, even flow of reception. Great volume is possible without the slightest suggestion of distortion or "squeezing." In total volume, 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, and inlaid with inlaid walnut 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 odd equipment slides from serial 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 any expert—no expert knowledge is required. Years of test have shown that they will outlast the ordinary D.C. style of tube.

Barawik 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 take 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.

$165.00—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

THE BARAWIK CO., CHICAGO, U. S. A.
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 on raw A.C. and no complicated apparatus is needed. You need only wire these tubes as we show in our simple instructions and you have a set which obtains its complete A.C. set. 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.

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.

366533—List price, $7.50. NET
366534—List price, $15.00. NET

6 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, bass drum wire.

366535—List price, $18.00. NET

Voltron A.C. Tubes

386523—Voltron A.C. Amplifier Tubes.
List, $3.00. NET

386524—Voltron A.C. Detector Tubes.
List, $6.00. NET

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

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.

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 muss, fuss and expense. 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 power at all times. Now you can really enjoy radio.

For Van Horne Tubes

The Van Horne Tube operates on raw A.C. and is similar to the UX-226 except that it consumes only 2 amps. at 1 volt. This transformer will handle 5 tubes: 2% volts to supply two UX-226 or CY-327 detector tubes; and 5 volt= supply two 5 volt power tubes. Also equipped with receptacle for B supply input plug. Shipping wt., 6 lbs.

386537—List price, $7.50. NET

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. Secondaries 3 volts with center tap. Current capacity 10 amperes. 6 foot cord and attaching plug. Shipping wt., 5 lbs.

386538—List price, $4.41. NET

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

27

World Radio History
BALKITE Radio Power Units

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

Balkite "A" replaces "A" batteries entirely and supplies a noiseless, uniform current, independent of the voltage applied. It uses no battery in any form. It is designed to replace storage or dry "A" batteries. It will operate on 110 volt A. C. 60 cycle current. Dimensions: 5½ x 12 x 13 inches. Weight: 56 lbs. List, $28.50. NET, EACH.

Model "J" Full Rate and Trickle Charger

For 4 or 6 volt batteries. Has two charging rates; 1000 and 2000 rpm. When used on continuous or trickle charge, is sufficient to keep the battery at full power. A high rate for heavy duty use. Noiseless, reliable, and has no hum. No tubes to burn out, or replace. List, $74.50. NET, EACH. 28825—Balkite "AB" for 25 cycle current, List, $20.58. NET, EACH. 28828—Special for 25 cycle current, List, $20.58. NET, EACH. 28833—Model "J 110 volt current, List, $19.50. NET, EACH.

Model "N" Large Trickle Charger


Model "K" Trickle Charger


Kingston "B" Eliminator

The Kingston "B" Eliminator, 5 to 150 cycle, is sufficient to keep the battery at full charge. It may be left on any set. The battery, kept charged, is sufficient to keep the battery fully charged at all times, and converting it into an "A" power unit. List, $28.50. NET, EACH. 28855—Model "K" Trickle Charger, List, $24.99. NET, EACH. 28856—Model "N" Special for 25 cycle current, List, $11.80. NET, EACH.

Burns B-Power

5 to 150 cycle can be secured. User can select just to best reception for his particular set. Once adjusted no further attention is required. For any set up to 100 A. C. or equivalent. Absolutely quiet, no hum. Distortion or vibration. Won't heat up. Raytheon full wave tube used as rectifier. Reversed switch. List, $5.59. NET, EACH. 28855—Model "K" Trickle Charger, List, $24.99. NET, EACH. 28856—Model "N" Special for 25 cycle current, List, $11.80. NET, EACH.

THE BARAKIK CO., CHICAGO, U. S. A.
**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 is finished in rich black crystal enamel. Genuine bakelite panel. Dimensions: 10 1/2 in. deep x 5 1/2 in. high. Tube is of large size, with extended cord and plugs with control switch. Shipping wt., 22 lbs.

Majestic “B” rectifier-eliminators at 180 volts. Sufficient power for sets up to 12, 20 tubes or equivalent. Delivers 100 milliamperes for the variable output voltage controls insure perfect operation.

28778—Complete with Majestic “B” Rectifying Tube. List, $17.35. Your net wholesale cost, EACH.

Majestic Master “B”--rating, 60 milliamperes at 200 volts. The precision “B” Power Unit for the owner who wants the very best. The ideal “B” for extra large sets. With complete control of all output voltage taps. Complete with Majestic 100 milliamperes tube. NET, EACH.

287780—List, $32.50, NET, EACH. 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. Complete with 80 milliamperes tube. NET, EACH.

287781—List, $9.50, NET, EACH. Similar in appearance and design to Master “B”, but equipped with two variable output taps, for 22 volts, 67 volts, and 90 volts, as required on many tube sets. Complete with Majestic 100 milliamperes tube. NET, EACH.

287782—List, $39.50, NET, EACH. Special Master “B”--rating 60 milliamperes at 200 volts. Two variable output voltage taps, for 22 volts, 67 volts, and 90 volts, as required on many tube sets. Complete with Majestic 100 milliamperes tube. NET, EACH.


287784—List, $29.50. NET, EACH. Sufficient power for sets of eight tubes or less. Operates on 110 volts. 50-60 cycle A. C. Shipping wt., 25 lbs.

287785—List, $17.35 each.net. EACH. Complete with Majestic 100 milliamperes tube. Dimensions: 10 1/2 in. deep X 5 1/2 in. high. Anti “P” high voltage tubes. This type charger wills complete automatic control. The “B C” Power unit is a tremendous reserve over and above actual amount used by even the largest radio set now in use. Absolutely quiet and noiseless. Furnishing 110 volts rectified voltage for radio frequency tubes. Also detector voltage, 10 to 75; output voltage for last stage is variable, 200 volts. Provides two sets of negative “B” plus voltage, the negative “B”, at 45 volts, and the positive “B”, at 180 volts, from 45 volts to 180 volts. Two Sentinel Powercore rectifying tubes furnished. Operates on 110 volt, 60 cycle alternating current. Shipping weight, 26 lbs. Complete “B” Eliminator. Refer to Sentinel “ABC” Power Unit in Catalog for complete description and prices.


WE PAY FREIGHT AS PER OUR 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 easy to install. KUPROX unit is placed in place of jar. Gives full wave rectification. Contains double former charging rate (8 to 1 amps.) Shipping wt., 3 lbs.

KUPROX Rectifier Replacement Unit

Replaces all electrolytic jars in trickle charger. Requires no attention—lasts indefinitely. Develops 2-2% more than any trickle charger, eliminates noise, heat, adjustments, replacements. Requires no attention. Shipping wt., 3 lbs.

It's charging rate (.8 to .1 amps.) Shipping wt., 3 lbs.

List—lasts indefinitely. Develops 2-2% more than any trickle charger, eliminates noise, heat, adjustments, replacements. Requires no attention. Shipping wt., 3 lbs.

$4.50. Net, each

$2.65

KODEL "A" Transifiers

Models 102 and 103

Absolutely no hum, increased volume, sustained tone—no attention—lasts indefinitely. Guaranteed a minimum life of 1,000 operating hours.

2B7752—List, complete. $4.60. Net, each...

$2.65

KODEL "B" Transifiers

Models 101 and 110

Model 101 is for all receivers and smaller receivers on 115 volt, 50 cycle A. C. shipping wt., 14 lbs. For 115 volt, 50 cycle A. C. current. 101 Model Recharger. List, without "B" eliminators, $3.60. Net, each... $3.60

2B7764—List, without Tubes. 197.50. Net, each...

$3.00

KODER "C" Transifiers

Models 106 and 116

Separate taps for 45, 90 and 180 volts for power amplifiers. C.C. current. $21.00. Net, each...

2B7768—List, without bulb. 3B73.00. Net, each...

$15.58

KODEL No. 120 Combination Power Amplifier and "B" Transmitter


2B7766—List, without tube. $4.60. Net, each...

$26.45

2B7769—Rectifying Tube. list. $2.60. Net, each...

$1.50

KUPROX Trickle "B" Recharger

Replaces dry cells or battery to a certain degree, allows better life to ordinary dry cells. Economical to operate. Operation is entirely automatic and plate current is practically constant as direct current from light socket. Supplies 45, 90, 180 and 180 volts "B" from 115 volt, 50 cycle A. C. circuit. Shipping wt., 8 lbs.

2B7755—Complete with Tube. List...

$5.88

KUPROX Trickle Charger

For charging 6 volt batteries from 115 volt, 50 cycle A. C. Absolutely dry, employing the efficient Kuprox rectifying unit. An amazing value. Compact. 3-3/4x3-1/4 x3/4 inches. Shipping wt., 6 lbs.

2B7769—Complete. List, $10.60. Net, each...

$6.18

Triple Duty Gold Seal Hom-Charger

Fasts 5 amperes charging rate—charges all auto and radio batteries overnight. Rejuvenates paralyzed and lifeless tubes. Supplies A. C. filament current for power amplifying tubes. And, it does these three jobs at full efficiency. Uses no bulbs or liquids. Back-proof, fire-proof, approved by the Underwriter. Size, 6x8x73/4 inches. Shipping weight, 15 lbs.

2B7767—For 115 volt, 5 cycle A. C. List...

$11.47

Net, each...

$12.35

MODERN "B" Compact

No unpleasant bulk. No humming. The condensers which are the heart of the Eliminator are made by the manufacturers of the finest radio condensers in the world. Furnishes a strong, even flow of voltage. Quiet, smooth-sounding operation. Uses no filament current. The Eliminator of the Sphinx. Neat metal case finished in black. Size, 3x3/4x3/4 inches. Shipping wt., 2 lbs.

2B7768—List, without bulb. 3B73.00. Net, each...

$15.58

THE BARAWIK CO., CHICAGO, U. S. A.
New Improved Unipower

Unipower

A Gould Product

Type AC-6-K

Furnishes 6 volt "A" power from 110-125 volt, 60 cycle alternating current. Operates any 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 entire set. When switch is "On" the set is operating and charging current is off. When switch is on "Off" the charging current is on and the set is disconnected. Dimensions: 11% in. long, 3% in. wide and 8% in. high. Shipping weight, 50 lbs.

285266--8-Volt from 110 Volt, 60 Cycle Current. List, $39.50.

$23.23

Unipower Type AC-4-R

Designed specially to supply a continuous, unfailing "A" power for radio sets using TV-999 tubes or their equivalent. Very compact, only 8% in. long, 5 in. wide and 8% in. high. Consists of a special Gould storage battery in combination with a noiseless rectifying or charging unit all enclosed in a handsome black rubber case, with nickel plated fittings. Has gas type exhaust design with vent tube. Equipped with the special Master control switch, which turns on the house current to charger automatically when set is laying off. Operates on 110-125 volt, 60 cycle alternating current. Shipping weight, 40 pounds.

285269--List, $20.50.

$17.35

WESTINGHOUSE "A" Socket Power

Consists of a 4 or 6 volt D. C.-7 Battery and 1% ampere Rectox t r i c k l e charger housed in hard rubber case. Battery is being charged at all times except when set is in operation. Will operate a 3 tube set, containing one power tube, shipped, wet, fully charged, ready for service. Dimensions: 13% in. long, 4% in. wide, 6% in. high. Shipping weight, 40 lbs.

285266--Same, except 4 Volt Output. List, $20.00.

$11.76

"A" Auto Power

Combination of high capacity storage battery (40 ampere-hour rating), with trickle charge rectifier permanently attached. Very efficient, discharges 100 volts at 60 less current than a 15 watt lamp. Will outfit several storage batteries. Rectifier operates by means of an electron discharge between a copper plate and a nickel plate in the form of the surface of the plate. No tube, no light, no vibrations or rotating parts. Double throw toggle switch turns the Autopower Switch automatically cuts off and on charger. Absolutely noiseless—not the slightest hum. All-rubber case.

285267--For 6 volt from 110 volt 60 cycle current. List, $25.00.

$15.00

285268--Deluxe Model with Automatic Relay Device to turn "A" and "B" Eliminator current. List, $35.00.

$20.58

PHILCO Socket "A" & "B" Power

Dispenses with battery entirely. Combines sets with six or more tubes, including power tubes. Operates any of a special Gould storage battery in combination with a noiseless rectifying or charging unit. Furnishes a rich, full, quiet power with neither hum nor noise, and we are positive that no such value has ever been offered in this field. Shipping weight, 50 lbs.

285263--Type A-B366—With Philocon rectifier. List, $31.60.

$45.15

285264--Type A-B366 with Dry rectifier. List, $23.00

$53.00

285286--For sets of six or less tubes with Philocon rectifier. List, $19.98

$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 high socket, converting the 110 volt alternating current into a 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 disturbing 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 always ready. 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. Designed for 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, 15 lbs.

285262--List, $23.00.

$19.11

NATIONAL "A" Socket Power Unit

It consists of an 120 volt, 60 cycle current. The charging rate is one ampere, tapering to % ampere as the battery becomes fully charged. Shipped from Chicago, New York, Baltimore, Detroit, Atlanta, Dallas, Kansas City, at prices from $17 to $25. Also available at lower prices from Los Angeles, Oakland, Cal., Portland, Ore., and St. Louis. Shipping weight, 50, 60, and 70 lbs.

285260--6 volt, 50 ampere. List, $31.60

$17.40

285261--6 volt, 75 ampere. List, $35.00

$18.96

285262--6 volt, 100 ampere. List, $33.00

$19.98

We pay freight as per offer given on page 3
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 E bonite case with a strong ball handle.

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

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 service without any ordinary conditions.

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

HANDY Fully Automatic Charger
Operates entirely automatic. Consists of Tungar bulb rectifier COMBINED WITH TWO RELAYS. When a set is turned on the charger turns on automatically and charging begins at rate of 2 to 2 1/2 ampere. This continues until battery reaches full charge...then potential relay operates to cut out charger. The series automatic relay, which is 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 Raytheon "A" unit.
List, $11.88. 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 flow of noiseless current (1/4 ampere). If battery shows signs of weakening, merely push switch to "fast" side and the battery will receive a full, quick charge (2 to 21/2 ampere) and is brought back to full strength. Long-life, 3-square bulb. Dark matte finish, all metal can be completely eliminated. With switch to low side, battery receives constant easy charge over night. No liquids or battery parts—entirely noiseless. Wt. 7 lbs. Shipping wt., 6 lbs.

2B6308—Retail price, with Raytheon cartridge complete...
$7.35

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 any type of set. Requires no attention and lasts indefinitely even when used by the most efficient chargers ever made and offered at an amazingly low price considering its high quality of material and a fine finish. You will make no mistake in choosing this splendid charger.

Shipping wt., 4 lbs.
2B6311—List, $12.00. NET. WHOLESALE...
$6.35

THE BARAWIK CO., CHICAGO, U. S. A.
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 charge, 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 matches peak. Neatly packaged in metal containers, supplied with toggle switch, Guaranteed. Shipping wt., 6 and 15 lbs. Operates on 110 to 120 volts.

2B209—0.7 amp. 60 cycle.
List, each, $13.50. NET...
9.31
2B213—0.7 amp. 25 cycle.
List, each, $15.00. NET...
10.29

Elkon Rectifying Units

Replacement dry rectifying units for Elkon Chargers.

2B6375—Trickle Rectifying Unit.
List, $6.00. NET...
74c
2B6376—Three-Amp. Rectifying Unit.
List, $6.00. NET...
3.50

Elkon Choke Coil

250 amp. 110 volt D. C. Rectifier.
List, $1.25. NET...
28c

Tritox Automatic Trickle Charger

with Westinghouse Rectifier

2B305—One amp. 60 cycle.
List, $3.60. NET...
3.60

New Dry Rectifying unit. Superior to all others.

Genuine Tunargar Charger

Practically noiseless in operation. Changes your battery over night, at a cost of only a few cents. Light weight, easy to handle. Cord for easy connections. Battery is protected in all cases. Simply plug in according to voltage cycle 60 cycle A. C. socket. No adjustment required. Includes built-in Charges 2, 4, 6 and 12 volt "B." batteries. Shipping wt., 10 to 15 lbs.

2B214—List, $6.00. NET...
3.60

Tungargar Trickle Charger

By the General Electric Co. Charges 6 or 4 volt batteries at 1/2 amp. rate. Efficient in operation. Requires no acid or water. Will not overcharge. Low trickle charging rate. Suitable for all battery types. Recommended for use with low amperage battery. Operates up to 60 amperes. May be used with 4 or 6 volt storage battery. Has adjustable charging rate. Shipping wt., 3 lbs.

2B877—List price, $10.00. NET...
$6.50

Genuine Tunargar Rectifying Tubes

2RR4—(1) amp. NET...
2B665—(2) amp. NET...
2RR3—(5) amp. NET...
9.10
15.60
5.50

True Valley Battery Charger

Equipped with built-in circuit control for charging 6 and 12 volt batteries. Operates on 110 volts, 60 cycle A. C. Current, 1500 volts. Built-in rectifier.

2B217—List, $16.00. NET...
9.60

Junior Bulb Type Charger

Silent in operation. Gives very satisfactory results. The low price is possible because of simplicity and 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 6 battery up to 30 volts. For a few cents. Fitted with five foot connecting cord and plug and five foot battery leads with clips. Bulbs included. Shipping wt., 10 and 15 lbs.

2B304—(2) amp. NET...
7.95
2B305—(5) amp. NET...
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 cables and universal leads. Strong battery leads are included. Dimensions, 5x7x9 inches. Shpg. wt., lb.

2B210—110 Volt D. C...
List, $12.00. NET...
7.80
2B211—32 Volt D. C...
List, $12.00. NET...
7.80

Yaxel Automatic Power Control

Does all the extra switching for you. It takes care of your 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 "J" eliminator and turn on the trickle charger. Shpg. wt., 2 lbs.

2B314—Single Type for use with any set, but especially recommended for sets having current draw of less than 6 UV. 1999 type tubes.
List, $5.60. NET...
$2.94

2B315—Multiple type for use with any set, but especially recommended for sets having current draw of less than 6 UV. 1999 type tubes.
List, $6.00. NET...
3.53

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 last. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever installed. Charges all makes of cars or trucks ready to go. Paves underwriters specifications wherever inst
Jewell A-B Relay
An automatic switch which controls eliminator and trickle charger. Makes any set fully automatic. Simply switching on or off switches the eliminator and charger off. Makes possible remote full automatic control of battery, charger and eliminator.

<table>
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<th>Type</th>
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<th>Net Price</th>
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<tbody>
<tr>
<td>286354</td>
<td>Type 505, for sets using 5 or more 3-volt tubes</td>
<td>$3.19</td>
<td></td>
</tr>
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</table>

2-Phase Plug
Well built composition plug. It is a good domestic make.

<table>
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<th>Type</th>
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<th>List Price</th>
<th>Net Price</th>
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<tbody>
<tr>
<td>487284</td>
<td>Each.</td>
<td>$0.20</td>
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</table>

Extra Tap
Designed to double the capacity of a single pin. A.C. receptacle made of fine polished composition.

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<th>Type</th>
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<tbody>
<tr>
<td>487287</td>
<td>Each.</td>
<td>$0.14</td>
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</table>

Trio Tap
A three way pintype switch with standard parallel prongs to fit into any flush receptacle.

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<tr>
<td>487354</td>
<td>Each.</td>
<td>$0.11</td>
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**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 without volume from a whisper to a roar. With it you can enjoy the best music with the shading and expression of the original rendition. It is an automatic relay for "A" power supply and "B" eliminator. Automatic and "C" eliminator is instantly started when the set is switched on or off. Entirely automatic. Recommended by Broadcasters.

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<th>Type</th>
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<tr>
<td>28311</td>
<td>List. $4.50. Net..</td>
<td>$2.65</td>
<td></td>
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</table>

**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 current for their power tube but also for the complete receiver.

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<tr>
<td>28364</td>
<td>Type 593, for sets using 5 or more 3-volt tubes</td>
<td>$4.00</td>
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**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.

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<tr>
<td>487438</td>
<td>Each.</td>
<td>$0.59</td>
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**2-Piece Plug**
A sturdy well designed plug. Brass blades with beveled ends. Ample space for wiring.

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<tr>
<td>487283</td>
<td>Each.</td>
<td>$0.76</td>
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**Automatic Radio Control Switch**
Connects Battery charger and "B" eliminator to set and makes and breaks all connections when filament panel switch is thrown. Automatically turns off on light socket current to charger when set is on and when set is off. 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.

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<tr>
<td>28328</td>
<td>List. $8.00. Net.</td>
<td>$4.70</td>
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**Improved Automatic Relay Switch**
Helps electrify any radio set. When set is switched on, it automatically shuts off the charger and charger when set is turned off. Entirely automatic. Used for coupling two lengths of lamp cord.

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<tr>
<td>28327</td>
<td>List. $3.60. Net.</td>
<td>$1.77</td>
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**Brach Controlit Switch**
An automatic relay for "A" power supply and "B" eliminator. Automatic switches eliminate "B" eliminator and "A" power supply on or off as the set is switched on or off. Entirely automatic. Recommended by Broadcasters.

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<td>487287</td>
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**Lamp Cord Connector**
For lamp cord extensions. Quickly makes or breaks contact. Uses for coupling two lengths of lamp cord.

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**Trio Tap**
A three way pintype switch with standard parallel prongs to fit into any flush receptacle.

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**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 the indispensable "B" supply for the entire receiver. Simplest to use with any set. In addition to supplying 50 volts to the d-c power amplifier tube, it also furnishes the rich "C" voltage to prevent distortion. Uses one UX-216B or CX316B rectifier tube and one super-power tube for 100 volt series. For use on 100-120 volts, 50 volts, 50-60 cycles right from your light socket. Handsome metal case 11 1/2 in. long, 3 1/2 in. wide, 3 1/2 in. high. Power amplifier only is same style but does not supply "B" current.

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<td>285674</td>
<td>List. Less Tubes. Shp. wt., 40 lbs.</td>
<td>$53.65</td>
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**Combination "B" Supply and Power Amplifiers**

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**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.

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**2-Piece Plug**
A sturdy well designed plug. Brass blades with beveled ends. Ample space for wiring.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>List Price</th>
<th>Net Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>487283</td>
<td>Each.</td>
<td>$0.76</td>
<td></td>
</tr>
</tbody>
</table>

**Trio Tap**
A three way pintype switch with standard parallel prongs to fit into any flush receptacle.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>487354</td>
<td>Each.</td>
<td>$0.11</td>
<td></td>
</tr>
</tbody>
</table>

**Combination "B" Supply and Power Amplifiers**

**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 without volume from a whisper to a roar. With it you can enjoy the best music with the shading and expression of the original rendition. It is an automatic relay for "A" power supply and "B" eliminator. Automatic switches eliminate "B" eliminator and "A" power supply on or off as the set is switched on or off. Entirely automatic. Recommended by Broadcasters.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>List Price</th>
<th>Net Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>28311</td>
<td>List. $4.50. Net..</td>
<td>$2.65</td>
<td></td>
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</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Type</th>
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<th>List Price</th>
<th>Net Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>487438</td>
<td>Each.</td>
<td>$0.59</td>
<td></td>
</tr>
</tbody>
</table>

**2-Piece Plug**
A sturdy well designed plug. Brass blades with beveled ends. Ample space for wiring.

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<td>Each.</td>
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</tr>
</tbody>
</table>
## 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 superhet 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 supplied. Therefore, batteries are not economical when a type tube is used. This power pack has been designed for a dual purpose. It is easily constructed from the parts supplied and will quickly repay its cost to the most inexperienced in all evening's time. The following parts are supplied:

- 1 Thordarson 171 compact, 1 171 filter condenser, 1 171 tapped transformer, 1 171 socket, 2 1 mfd, by-pass condensers, 1 Bakelite strip, 2 tip jacks, 1 9x11 inch baseboard, 4 binding posts, screws, wire.  

**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 transformer, 1 171 socket, 2 1 mfd, by-pass condensers, 1 4 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 Bil tube and 1 171 power tube.

### Dongan Power Supply Transformers

**Power and Filament Transformers**  

For Raytheon RA 350 mil. tube, ABC power pack. For supplying A, B and C voltages to the 210 tubes. 700 volts center tap 300-400 mils.  

**Filament Heater Transformers**  

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

**Filament Heater Transformers**  

For UX-112 or UX-171 power tube, 5 volts, 1/4 amp. center tap.

### National "B" Eliminator

Is shown on Page 36 of this catalog.
Samson 210 Power Amplifier and B C Eliminator

Unsurpassed Volume and Tone

Samson's helically wound transformers further prove the superiority of Samson's production. Their resistance ratings are accurate and their tolerances small. The uniformity of all units in a given size is a Samson production standard. The transformer's class rating assures full current capacity and long hours of continuous service without overheating. The new 210 power kit when built up supplies constant B voltage and C voltage for the entire range of push-pull power ampltification. Constant voltage is a feature of the use of the 874 regulatot tube; high quality reproduction is a result of the Samson Symphonic Transformers. They give voltage and reproduction never before attained. The B voltages supplied to the set are: 45 volts, 80 volts, and 130 volts. List, $1.95. In the addition the power amplifier stage used 10 tubes, the ABC for them being supplied from the power block. This unit delivers 500 volts at 95 MA.

This kit when built up supplies the following: 1-226 A. C. tubes; 1-210 type tubes. Their resistance ratings are accurate and their tolerances small. These resistors were designed especially to meet the requirements of the power pack for which they are specified. Their resistance ratings are accurate and their tolerances small. The quality of reproduction is unsurpassed, bringing out every note with a fidelity seldom approached.

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 their tolerances small. The quality of reproduction is unsurpassed, bringing out every note with a fidelity seldom approached.

Ward-Leonard Adjutsats

The Adjustat Is a wire wound, precision, enameled rhenium having 13 stage of resistance. They are used in circuits carrying high current and requiring high adjustment to be made and kept. Those familiar with Ward Leonard resistors know that there are none so fine. Shpg. wt., 8 oz. List, $1.95.

Electrad Truvolt

The Electrad Truvoit is one of the best volume controls that you can buy for your power set. It is the special mechanical construction (in very large radius area preventing deterioration) giving permanent accuracy. It is a wire wound tube and 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, 6 oz.

Other Ward-Leonard Resistors Page 97

Parts supplied as follows: 1 Samson 210 Power Block; 1 Pair Samson Symphonic Pull-Pull Transformers; 1 Samson "B" and C Condenser Block; 1 Electrad Truvolt Variable Resistor; 4 Benjamin UX Sockets; 12 EY Binding Posts; 2 2-210 type tubes; 12 Hole Binding Post Strip; Wire; Screws, baseboard.

The transformers required to operate this kit are: 1-type 250; 1-type 874; and 2-type 111 tubes. No tubes included. Ship. wt., 45 lbs. List, $10.90.
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, nor resistance coupling. 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. Inures 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.

This unit, an electric pickup and a spring motor provide the essential units for an electric phonograph that you can make yourself. 12 1/2 inches long, 2 1/2 inches high. Ship. wt. 6 1/2 lbs.

385774—List $25.00, NET

$14.69

National Power Amplifier and "B" Supply

Furnishes complete its own A, B and C supply as well as B supply for the balance of 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. A variable voltage ranging from 30 to 190 volts. Easily Installed without rewiring. Brings in any set up to date. Eliminates all "B" battery troubles. Furnishes high quality power amplification.

2B6322—Type E1 in kit form without tubes. List $8.00, NET

$40.00

Power Amplifier L-3

Complete three stage power amplifier and "B" eliminator. For Hi-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 $85.00, NET

$51.88

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

$6.50

Centralab Tone Amplifier

Adds a power stage of amplification to any receiving set. Uses new "Pentrola" style tube for improved tone quality and increased volume. Does not include an "A" eliminator. Can be used with any set. Any eliminator can be included with or without batteries. Tone control insures any volume desired. Wire for connecting to detector output and batteries included.

3B6325—List Price, $16.00, NET

$9.50

Walbert Penetrola

188 Times the Energy!

W.O.AI signal intensity of 11, on the audibility meter, dropped store 2000 with Penetrola—188 times as strong! Selectivity with a vengeance! Any Penetrola demonstration will show you things like that on any set with no number or arrangement of stages. The wanted station is immeasurably intensified; interference is overridden. So much volume is available for distance that a shorter aerial may be used. Your set is isolated from radiation, and is stabilized. It is needless to approach oscillation. And dial readings stay essentially the same. Principles hitherto elusive are now successfully applied. The widely heralded Isofarad Circuit, latest Walbert development, is the foundation of Penetrola. Pentrola 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 crude, can be transformed with Penetrola.

356—Penetrola in Black Crystallite Cabinet, for Instant Attachment. List $35.00, NET

$22.35

3B1650—Penetrola Kit with Complete, Simple Instructions, without Cabinet. List $10.00, NET

$8.89

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

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

3B6325—List Price, $1.00, NET

$6.00

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3
Celatsite Silk Battery Cables

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

Non-Drip Hydrometer

The "non-drip" feature makes this the ideal radio or service station hydrometer. No more spoiled readings and small barrel will not drip out. The "Can't Stick" float and small barrel insure easy accurate reading always. Rubber parts are of good quality. 282815—List, $1.00.

Bargain Hydrometer

282816—List, 50c.

S. O. S. Hydrometer

282817—List, 75c.

Three balls show exact condition of charge. If all three float battery is full. If one ball is nearly charged, two silk, three sink completely discharged.

Leader Hydrometers

Have accurate readings, headed floats which are practically unbreakable, well made, dependable, accurate, large size is suitable for battery watching and for dealers' testing purposes. Being of special, almost unbreakable construction, with rubber shock absorber and practical, unbreakable bezel. 282818—Large size. List, 75c. Net, .50c.

Hydrometer Floats


No need to throw away the old hydrometers because 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

282822—Large size. List, 75c. Net, .50c.

Set your battery on this mat and avoid any possible chance of injury to rugs or furniture. Takes largest size battery and acid proof.

Battery and Radio Clips

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

Net

B 10 amp. 1/4 in. 3/4 in. 5e .37c
B 25 amp. 1/2 in. 1 in. 10c .67c
B 50 amp. 3/4 in. 1 1/4 in. 25c 1.30c
B 100 amp. 1 1/4 in. 1 3/4 in. 35c 2.40c

Connecting Clips

For connecting lead wires to "B" batteries, insulating holes, sets on posts, etc. 282840—Nickel finish, Dz $3.75
282842—Pewter, copper finish. Very small, compact size. Dz $3.75

CHARGE TESTER for Radio "A" Storage Battery

Tells instantly when battery is suitable for service; when to charge and when to charge the life of the battery. No more guess work. Every battery user needs one. 282835—List price, $1.25.

Test-A-Bat Storage Battery Tester

A meter designed to attach permanently to any battery, giving instant, one glance. No need to throw away the old hydrometers because 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.

Jewel Battery Tester

282836—List, $2.75.

Lead coating protects against corrosion. Net

Battery Meters

282837—List, $1.00. Net, .55c.
282838—List, $1.50. Net, .72c.
282839—List, $2.50. Net, 1.45c.

Jewel Battery Tester

282841—List, per set, 15c. Net, 9c.

Bail with glass crystal. Tests 221/4 and 45 volt batteries. 282842—List price. $1.26.

Battery Meters

282843—List, 80-400 volt. Net, .37c.
282844—List, 80-200 volt. Net, .25c.

Meters

282845—List, 100-500 volt. Net, .75c.
282846—List, 100-200 volt. Net, .50c.

Battery Meters

282847—List, 100-100 volt. Net, .45c.
282848—List, 100-50 volt. Net, .25c.

Jewel Battery Tester

282849—List, per set, 15c. Net, 9c.

Bail with glass crystal. Tests 221/4 and 45 volt batteries. 282850—List price. $1.26.

Battery Meters


Jewel Battery Tester

282853—List, per set, 15c. Net, 9c.

Bail with glass crystal. Tests 221/4 and 45 volt batteries. 282854—List price. $1.26.

Battery Meters

282855—List, 5-25 volt. Net, .15c.
282856—List, 5-10 volt. Net, .10c.

Jewel Battery Tester

282857—List, per set, 15c. Net, 9c.

Bail with glass crystal. Tests 221/4 and 45 volt batteries. 282858—List price. $1.26.

Battery Meters

282859—List, per set, 15c. Net, 9c.


Battery Leads

3B2813—_Lst price, 25c. Net, 15c.

Bail with glass crystal. Easy to read and convenient to attach. 282835—List price, 25c. Net, 15c.

Battery Meters


Bail with glass crystal. Easy to read and convenient to attach. 282835—List price, 25c. Net, 15c.

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Battery Meters

3B2847—List price. $1.26.

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Bail with glass crystal. Easy to read and convenient to attach. 282835—List price, 25c. Net, 15c.
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 batteries, Plain and varied sizes and styles to meet every radio need. Never in the history of Radio has there been such value in “B” Batteries. Pow-R-Ful “B” and “C” batteries are guaranteed against defective materials, faulty workmanship, and against ordinary methods, giving longer life and greater recuperative power. In proof of this we offer our new, fresh stock of this well-known make battery ready for immediate shipment. A long life, hum-free battery if all Radio Batteries are made from the best materials obtainable and are subjected to numerous tests at every stage of their manufacture.

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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.

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 Barawk helps the dealer to bigger profits. Pow-R-Ful "B" and "C" batteries are guaranteed against defective materials, faulty workmanship, and against ordinary methods, giving longer life and greater recuperative power. In proof of this we offer our new, fresh stock of this well-known make battery ready for immediate shipment. A long life, hum-free battery if all Radio 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 encased in a solid block of insulating material which thoroughly insulates each cell, thereby preventing internal short circuits.

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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 reproduces with amazing fidelity from the soft numbers of the bass through the melodic 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% inches; height over all, 22% inches. Its 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.

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.

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 reproduces the original speech or music till it seems 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
Hangers from wall suspended by handsome cord. Cone diameter 19 inches. Decorated in blue and silver. An especially beautiful and popular cone speaker. Shipping wt. 12 lbs.

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.

Symphonic Globe Speaker

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.

The Burns Horn
An “Old Reliable”

Of generous proportions, gracefully shaped and designed along scientific lines. The flowers of handsomely polished black pyramid; practically unbreakable. Adjustable. Shipment wt. 15 lbs.

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 bass viola, tuba, tympani and the pedal notes of the pipe organ.

Cabinets 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, 101/2 inches.

The Burns Cabinet Speaker

Reproduces the entire musical scale with 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.

Cone Type
Equally pleasing is its appearance, as the dark grained wood composition diaphragm is set off by an artistically designed frame and base finished in rubbed ebony. Height, 19 1/4 inches; diameter, 13 1/2 inches. Shipping wt., 15 lbs.

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, 10 1/2 inches.

THE BARAWIK CO., CHICAGO, U. S. A.
Famous UTAH Speakers

Cone
Contains the famous Utah unit, universally accepted as one of the best. Fine cone paper, with protected edge and finished in a tasteful design. A quality cone at a remarkably reasonable price. Height, 15¾ inches. Shipping wt., 8 lbs.

285125—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.
285184—Size 36 inches high, 27¾ inches wide, 17 inches deep. Weight, 100 lbs. List, $70.00. Wholesale.

$41.16

Utah No. 101.
285185—Size 36 inches high, 27¾ inches deep. Made to take Philex and other similar power units. Weight, 100 lbs. List, $70.00.

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.

Utah No. 102.
285182—List, $10.00. Net, $5.88

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, 16¾ in., width 14 in., depth 4¾ in. Shipping wt., 13 lbs.

285183—Retail, $16.00. Net.

$9.40

Utah Screen Speaker

285157—Retail, $100.00. Net, $58.80

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—perfect balance. Renaissance design in statuary bronze finish, 20 in. wide, 20 in. high. Shpg. wt., 10 lbs.

285158—Retail Price, $25.00. Net, $15.00

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 sturdy construction and will take 350 volts头顶. Shipping wt., 12 lbs.

285191—Retail Price, $7.60

All American Lore 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.

285150—Retail Price, $25.00. Net, $14.70

We pay freight as per offer given on page 3
BARAWIK Trutone Drum Speaker

The 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 unit. Front is covered with gold cloth mesh. Height, 3% inches; width, 15 inches; depth, 5% inches. A sure sale with every demonstration. Shipping wt., 18 lbs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>2B5161</td>
<td>$25.00</td>
</tr>
</tbody>
</table>

$15.00

The QUAM Loud Speaker

Emphasizes 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 breathing, matchless in its beautiful recreation of the highest violin tones to the deepest tones of the pipe organ. Height, 14 in.; width, 13 in.; depth, 5% in.; a sure sale with every demonstration. Shipping wt., 13 lbs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>2B6331</td>
<td>$17.50</td>
</tr>
</tbody>
</table>

$10.29

Pacent Cone

The Pacent Cone Speaker is correct from every engineering standpoint with a balanced armature 17-in. double Cone and specially selected brown grained paper. Rigidly constructed and so designed as to take extreme power amplified signals and yet be sensitive enough to respond to weak signals. The Pacent Cone is beautifully proportioned, presenting a harmonious, blending appearance wherever placed. Plug included. Shipping wt., 15 lbs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>2B5151</td>
<td>$22.50</td>
</tr>
</tbody>
</table>

$13.39

The Cantata Console

Large enough 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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>2B6172</td>
<td>$75.00</td>
</tr>
</tbody>
</table>

$44.10

Piersen-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 Ortho-type Speaker and powered by Nathaniel Baldwin unit. This wonderful speaker stands in service in our store and amazes all who hear its lifelike, powerful reproduction. Width, 30 inches; height, 30 inches; depth, 18 inches. Space beside horn (16 inches deep) provides space for batteries, etc. Shipping wt., 55 lbs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
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<tbody>
<tr>
<td>2B6173</td>
<td>$65.00</td>
</tr>
</tbody>
</table>

$38.22

CONSOLE REPRODUCERS

Equipped with Genuine Newcombe-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 available. 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. G. unit. Made of finest walnut in rich antique lacquer finish. This console provides space for small console type radio set with all batteries, etc. Height, 44 1/4 in.; width, 36 1/2 in.; depth, 16 1/2 in. Shipping wt., 100 lbs.

<table>
<thead>
<tr>
<th>Model</th>
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</thead>
<tbody>
<tr>
<td>2B6171</td>
<td>$125.00</td>
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</tbody>
</table>

$73.50

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 Ortho-type Speaker and powered by Nathaniel Baldwin unit. This wonderful speaker stands in service in our store and amazes all who hear its lifelike, powerful reproduction. Width, 30 inches; height, 30 inches; depth, 18 inches. Space beside horn (16 inches deep) provides space for batteries, etc. Shipping wt., 55 lbs.

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</thead>
<tbody>
<tr>
<td>2B6173</td>
<td>$65.00</td>
</tr>
</tbody>
</table>

$38.22

THE BARAWIK CO. CHICAGO, ILL. U.S.A.
Acme Speakers

Barawik 36-Inch Cones

The Ideal Speaker
For Use With
Power Tubes

Made especially for use in high-fidelity systems. All parts are carefully selected. Sturdy, lightweight, compact, and very efficient. A complete set of speakers, including all accessories, is available for a very reasonable price. The ideal speaker is a combination of high performance and low cost. The Barawik 36-Inch Cone is a great example of this. It features a large-diameter cone, powerful magnet, and a sturdy, lightweight cabinet. The result is a speaker that produces clear, natural sound even at high volumes. Available in a variety of finishes, the Barawik 36-Inch Cone is sure to add a touch of class to any home entertainment system.

Double Free Edge

Cabinet Style

K-1

N/A. tone and lid tone are brought out never before. Comes at last in a way that is completely different from any other cabinet. Made of the finest materials and designed for maximum sound quality. Features a sealed design to prevent feedback and distortion. The cabinet is available in black, white, and red.

K-2

Cabinet Style

Single Free Edge Cone

Pedestal Type

Height: 4 lb. with the box of the cabinet. Comes in brown territory, completely built and ready to be used. Long, elegant cord. Shipping wt. 100 lbs.

Windsor Fasel Cone

In an period, quality, price, performance and extreme low price, the new Novo-Fasel cone proved to be the one that met all these criteria. The Novo-Fasel cone is completely built and ready to be used. Long, elegant cord. Shipping wt. 100 lbs.

Windsor ORTHO-TYPE CONSOLE

An ortho-type reproducer with a 10-inch long-range and a 10-inch long-range, with built-in subwoofer. Provides an extremely low price and excellent performance. The Windsor ORTHO-TYPE CONSOLE is available in black, white, and red.

Na-Ald Midget Cone Speaker

A Great Novelty

Tens of thousands have been sold in a few months. A novelty that has been around for a while. Works very well, with a lot of volume and a lot of volume. Adjustable tone control makes it a very desirable addition to the regular setup.

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

World Radio History
AMPLION—World's Foremost Speaker Line

Here is perhaps the most distinctive and beautiful speaker ever made. New process enameled 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.

285179—List, $67.60
Net, each

$39.69

Case in two-tone mahogany: 14 in. x 14 in. x 9 in. Shipping wt., 18 lbs.

28556—Amplion Cone.
List, $35.00.
Net, each

$20.58

AMPLION Dragon Speaker

An old-time favorite! One of the most efficient horns ever made. Beautiful mahogany paneling bell, 20½ in. high, 14½ inch diameter. Crystaline enameled. Bi-polar type unit adjustable. Shipping wt., 18 lbs.

285180—List, $42.00.
Net, each

$24.99

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

Case in two-tone mahogany: 14 in. x 14 in. x 9 in. Shipping wt., 18 lbs.

285182—Amplion Cone.
List, $35.00.
Net, each

$20.58

AMPLION Lion Model

A marvelous new none, 14 inches in diameter mounted on an 18 inch sound board. Height, including handsome bronze base, 20½ inches. New balanced armature unit, straight bar magnets of finest grade English Tungsten steel. Shipping wt., 20 lbs.

285181—List, $25.00.
Net, each

$14.70

The CELLO Talker

$27.50 Value
Amazing Bargain!

Gives the true orthophonic 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 base as well as the highest soprano vocal notes are faithfully reproduced. Extra may be recognized.

Case in two-tone mahogany: 14 in. x 14 in. x 9 in. Shipping wt., 18 lbs.

285170—List, $27.50.
Net, each

$4.65

Net

$10.29

Model 125

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

Shipping wt., 5 lbs.

285125—List, $10.00.
Net

$5.88

Model 90

Extra large diaphragm, full range of tone with fidelity and beauty. Stands 19 inches high, has 12 inch bell and Trimmy adjustment feature for tone and volume. Shipping wt., 10 lbs.

285107—List, $17.50.
Your Net cost

$10.29

Model 80

For clearness, distinctiveness and perfect harmonious blending of tone values, Trimmy Concerto has never been surpassed. Adjustment controls tone and volume. Horn, No. 30 Giant Unit. Finished In Black. Shipping wt., 12 lbs.

285107—List, $25.00.
Net

$14.70

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 grille is fully protected.

285104—Model 38 Concerto. Diameter Cone, 17 inches. Shipping wt., 14 lbs.
List, $16.00.
Net

$9.41

285119—Model 28 Concerto. Diameter Cone, 14 inches. Shipping wt., 11 lbs.
List, $10.00
Net

$5.88

Concert Model 80

For clearness, distinctiveness and perfect harmonious blending of tone values, Trimmy Concerto has never been surpassed. Adjustment controls tone and volume. Horn, No. 30 Giant Unit. Finished In Black. Shipping wt., 12 lbs.

285107—List, $25.00.
Net

$14.70

The Barawik Co., Chicago, U. S. A.
Balsa Wood Reproducer

Make It Yourself

Nature's Sounding Board. The most ideal development in loud speakers—one of the finest reproducers of voice and music—since the birth of radio. Soundina medium is made of a thin board of Lama Balsa Wood— a product perfectly 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 by yourself. Endorsed by such distinguished technical editors as Cock- day, Gurney, Ilurd, Casey and others. Shipping wt., 6 lbs.

Build It Yourself

ENSCO 3-ft. Cone Kit

Complete parts for constructing a marvelous giant cone speaker that perfectly reproduces all broadcast reception with tremendous volume, yet clear and undistorted. Each Kit contains: 1 fine speaker unit; 1 sheet heavy paper, 205144; 1 tube cement; 1 eheet 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. Any size can make it in a short time! Carefully packed. Shipping wt., 5 lbs.

3-Foot Cone

Beautiful Grecian

Made by Pathe Reproduces full range of tone with wonderful quality and excellent volume. Cone diameter, 15 inches. Height, 17 in. Shipping wt., 15 lbs.

Thorola New Model Cone

Protected Dual Diaphragm

The low tones resonate clearly from the flat surface of the diaphragm: the center cone reproduces the rich and middle tones with marvelous purity and distinction. Here is a dual diaphragm that exactly reproduces every sound wave. Gives the finest radio ever known with cone speakers. The patented spiral with Florentine surface, and the gold finish enhances the result. Rich walnut and old gold finish. Shipping wt., 15 lbs.

We Pay Freight as Per Offer Given on Page 3
**Victor Horn**


2B5146—Retail price, $20.00.

NET, EACH $6.95

2B5152—Smaller size, retail price, $12.50.

NET, EACH $5.65

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**Genuine BALDWIN Speakers**

3B5129—Concert Standard model, List $20.00.

NET $14.70

3B5130—Concert Grand, List $25.00.

NET $14.70

Shipping weight, 10 lbs. will handle 200 watts plate voltage without distortion. It is all metal in rich brown cracked lacquer finish—matches most sets. Stands 4 inches high. 9-inch heavy base—won’t tip. Wire mesh grille—full facing. Twenty feet silk insulated. No chattering. Extra large speaker in the new cracked finish. Extra large size, adjustable unit. Matching plate arrangement gives the true reproduction of the entire range of tones. It will handle the maximum volume and tone equal to many speakers sold at double the price. Bell diameter 13 1/2 inches. Height 33.

2B5156—List, $12.50.

NET $6.95

---

**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 constant research and industrial development have been successfully corralled into the design of these cone speakers. The reproduction is true and exact, as far as it is possible to carve about. Not all of the fine qualities have been concentrated in the unit. The unit itself is beautifully designed and will match the finest surrounding. 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 vibration arising in the unit. All notes are reproduced with the same fidelity giving rich, warm and lifelike tones. In 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.

The 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. Speaker which you may truly be proud of.

2B548—20 Inch R. F. I. Cone Speaker, List, $18.50.

NET, EACH $10.95

2B547—11 inch R. F. I. Cone Speaker, List, $12.50.

NET, EACH $7.38

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**Claravox Speaker**

One of the finest ones made. Clear, rich, full reproduction as you have never heard before. Accepts extra voltage of power tube operation without distortion of muffling of blasting. Overall height 13 1/2 in., diameter 10 1/2 in. Silk grill, Black and gold crackle finish. Shipping weight, 19 lbs.

2B5096—List, $35.00.

NET $20.75

---

**Temple Console Drum**

This is the Temple Drum Speaker without base. Slide front and back—"striped"—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 horn which concentrated environmental air column type speaker that brings a fidelity of reproduction not heretofore known. No harsh notes—no distortion—no shrilling at the bottom of the scale. It has become the sensation of the radio world. The air column is 4 1/2 feet long. Diameter of drum 11 1/2 inches, depth 7 1/2 inches. Pitman to take any standard unit. (No unit furnished.) Shipping weight, 18 lbs.

2B5485—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 in 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 shaped cone handles all the power given it. The reproduction is delightfully smooth, being so balanced as to give fullest value to the low frequencies as well as the higher. This 10-Inch Burtor Cone with wind free valve thoroughly protected by the mounting board. Both cone and unit are securely anchored to this board, making a perfect installation. Dimensions: overall, 12x13 in.; depth, 7 in. Adjustment wing nut on back. This wonderful cone will be a revelation to those who have no idea of what speakers in consoles sound like. Each individual note is clearly and distinctly reproduced. Tone is smooth, long air column in compact design, all ordinary abuse without damage, pleasing in appearance, easily mounted, interior finish is a special "background" for a right console speaker and this model will operate perfectly in consoles. Complete with mounting brackets. Shipping wt. 25 lbs. 1955—Net $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. Curve advocated by acoustic experts. Are built not only to take low notes but also the entire audible sound range. Horns will operate perfectly in consoles. Complete with mounting bracket. Shipping wt. 25 lbs. 266195—List $12.00. NET, EACH

Superphonic Horn Type A. S.

This horn is designed to give the finest in acoustical performance for the money. A true orthophone type. It can be used either with a radio set or phonograph and will give faithfully the entire audible scale of tones, and as such is a sweet and natural quality. A 1 Inches deep. For orchestras, music and singing will do excellently for all other types. 3B2150—8-inch air column. Overall depth, 7 inches. 7% inches. EACH $6.95

Giant Ortho-Type O. B.

A very popular horn for this season. Exactly same as used in phonographs and consoles selling between $20.00 to $30.00. The highest deferent operation yet attained in musical reproduction. 3B6193—Air column, 36 inches. Bell, 18x24 inches. Depth, 13% inches. EACH $10.58

Compact Ortho-Type

While very compact it has long air column. Overall depth, 8 inches. A 1 Inches. EACH $3.95

Consecutive Horn Type

Designed especially for consoles and cabinets. A true orthophone type. Practically superior to ordinary reproducing wooden horns. 2B6195—Air column, 80 inches. Bell, 6x16 inches. Depth, 10% inches. EACH $9.60

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. Helical pitch overall. Bells made of long grain wood fiber. Practically indestructible. This model will operate perfectly in consoles. Complete with mounting brackets. Shipping wt. 25 lbs. 2852250—Net $3.00

Low Boy Model Horn

A very compact horn requiring space only 13 inches wide, 8 inches high and 6 inches deep. Very strong and durable. Made of molded fiber. Has excellent tonal quality. Fitting takes most standard makes of units. Can be used in cabinets or consoles. 2852550—Net $2.55

Concentrated Cone

$14.75

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 driving 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.

38778—List, $5.00. Net. $2.94

Amsco Orphone

P l a c e d between any loud speaker and set, will greatly improve tone. It eliminates direct plate current from radio loud speaker, thereby increasing volume, preventing distortion. Also increases frequency range of speaker, and helps break up the noise in radio loud speaker coils, thereby increasing volume and eliminating noise and tube volume. Absorbs static and tube noises. Makes speaker and greater volumes possible. Complete with cord and connector. Loud speaker can be moved any distance without moving set.

38781—20 ft. $1.00 $0.54
38782—30 ft. 1.40 0.74
38783—50 ft. 2.20 1.12

Extension Cord Sets

Complete with cord and connector. Loud speaker can be moved any distance away without moving set.

List, each Net
38781—20 ft. $1.00 $0.54
38782—30 ft. 1.40 0.74
38783—50 ft. 2.20 1.12

Extension Cords

Extension cords only. Without plug or extension jack. Allows extension of head set or loud speaker.

381533—10 ft. Each $0.27
381534—20 ft. Each 0.54
381535—30 ft. Each 0.80
381536—40 ft. Each 1.10

Extension Connector

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

381521—21c

Carter Flat Plug

Provides quick means for inserting and removing cord tips. Tips completely concealed.

381513—List, 75c. Net. $0.45

De Jur Plug

The cord tips are firmly clutched to the smooth nickelized stem assures a good contact with the jack. Almost all the features of a serviceable plug is a real value.

381508—Net, each 1.50
10 for $1.30

Phone and Speaker Cord

Fine quality cords designed for long service. Covered with firm glossy black braid.

38737—5-foot double cord. Spade tips on both ends. List, $0.30
38738—5-foot double cord. Straight tips on both ends. List, $0.30
38739—5-foot single cord. Straight tips on both ends. List, $0.21

Cord Tips

38726—List, $1.00
38727—List, $0.50

Multiple Plug

Fits any standard jack. Takes number of phones and speakers to four. Cords attached by inserting tips into slots.

381514—List, 75c. Net. 45c

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 voltages and preventing paralyzation of speaker unit. Enclosed in highly finished enameled container with nickel binding posts and suitable nuts. In wide.

38779—List, $5.00. Net. $2.94

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.

381512—List, 36c. Net... 21c

Pacent Auto Plug

A press on the button at sides instantly releases cord unless but- tons are pressed. Attractive bakelite shell with nickelized stem. No chance for shock. Takes two sets of cords.

381507—List, 60c. Net...

Frost Plug

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 cord instantly.

381514—List, 75c. Net. 45c

Duplex Two-Cord Plug

Unbreakable fiber barrel; black satin finish. Takes two sets of cords.

381509—List, 60c. Net...

Phone Cushions

28736—List, 50c. Net... 33c

Great Head Set Offer

Unusual Value

Here is a headset known to reproduce radio broadcast absolutely true and eliminating noises. 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.

38177—List price, $6.00. Net price...

THE BARAWIK CO., CHICAGO, I. I. A.
New R. F. I. Super Power Loudspeaker Unit

The R. F. I. people were pioneers in the field of mass production of loudspeakers, and thousands of dollars were spent to perfect this wonderful unit which will 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 adaptable to any type of speaker or reproducing device and its performance is a marvel in uniformity. There is positively no distortion at any point, in the audible range, and the natural flow of the radio broadcast is so perfect that even the most critical listener is perfectly satisfied. For use with power tubes and special amplifiers, this unit will carry the full current of a normal load, without any hint of distortion, than any of the 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 unit is rustproof and tightly sealed. Will give lifelong service in any atmosphere—even in salt air.

**List price, $2.50. Your Net Price: $2.00. Net, EACH: $1.68.**

---

**Phonograph Units**

**Amplion Units**

The unit that has made the Amplion Speaker famous is offered for phonograph and concert use. Unsurpassed for fine tonal rendition, covering the entire musical scale with faithful and full rounded reproduction. The bases and undertones, as well as the trebles are perfectly reproduced.

**2B2562—List, $12.00. Your Net Price: $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.

**28807—List price, $10.00. Your Net Price: $5.88.**

---

**R.F.I. Unit**

Attached to any phonograph this unit gives excellent volume and tone quality. **Victor** phonographs, adapters for other makes shown below. Shipping weight, 2 lbs.

**28809—List price, $7.50.**

---

**Baldwin Phono**

Make a loud speaker of your phonograph. Attach to this arm of phonograph, in place of reproducer. Nu-Vit, Victor, Sonora, Silvertone and other phonographs having a grooved needle in unit, the same as used in Dulce-Tone. 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. See Page 26 for Western Electric Unit.

**28806—Baldwin Phono, List price, $9.00.**

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**Dulce-Tone**

Radio Phonograph Speaker

Place phonograph needle in Dulce-Tone's grooved needle and slip into radio set. No special connections needed, only the diaphragm is changed from "B" battery circuit to this unit and plug into radio set. Shipping weight, 2 lbs.

**28810—List, $10.00. Your Net Price: $6.00.**

---

**Adjustable Unit**

Floating armature type. Extra large permanent magnet of fine grade steel. Extra large magnet steel. The magnets are of tungsten steel. The unit is rustproof and tightly sealed. Will give lifelong service in any atmosphere—even in salt air.

**2B2560—List, $3.50. Your Net Price: $2.50.**

---

**Ekko Phonograph Adapters**

Four styles to fit 98% of all phonographs. Shipping weight, 4 oz. Connect for Edison phonographs.

**2B730—No. 1, List, $2.00.**

**2B731—No. 2, List, $2.00.**

**2B732—No. 3, List, $2.00.**

---

**Ekko Phonograph Adapters**

Four styles to fit 98% of all phonographs. Shipping weight, 4 oz. Connect for Edison phonographs.

**2B730—No. 1, List, $2.00.**

**2B731—No. 2, List, $2.00.**

**2B732—No. 3, List, $2.00.**
Type 199 Amplifier and 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 (min.) 22.5; Plate volts (max.) 30; Grid volts 150; N.G. grid volts 90; Plate voltage 22.5 to 180; "C" battery voltage 1.5 to 13.

Standard for All Sets

Type 201-A

Detector and Amplifier

An all-purpose tube, universally used in storage battery and socket power sets for radiofrequency detector and audio frequency amplifier. Fil. volts 5; Fil. amps .25; Plate volts 22.5 to 180; "C" battery volts 1.5 to 13.

Type 210 Oscillator and Amplifier

Recommended for heavy duty loud speakers, with plate voltages 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 5. As Oscillator: Fil. volts 7.5; Fil.amps.1.25; Plate amps.06; Plate volts 350; Plate volts 22.5 to 157; "C" battery voltage 6 to 10.5.

DRY CELL TUBES

Type 199 Amplifier and Detector

Fil. volts 3; Fil. amps .06; Plate voltage 22.5 to 80; "C" Battery volts 1.5 to 4.5. Short prongs.

Type 199-A Power Amplifier

This type of tube has the same specifications as Type 199, but it has the new X base. (2B1004 - List, $2.25; Net. each $1.10)

Type X-120 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.1.25; Plate volts 135; "C" battery volts 350; Plate volts 22.5 to 157; "C" battery voltage 6 to 10.5.

The New A-C Tubes

Type 225 A-C

Acts as a R. F. amplifier, detector, A. F. amplifier and oscillator. Fil. voltage 3 to 9; Fil. volts 1.05; Plate voltage 12 to 135; Plate volts 7.5; "C" battery volts 4.5 to 5. (2B1026 - List, $5.00; Net. each $2.94)

Type X-226 A-C Amplifier

For use in radio or trans. coupled A. F. amplification. Should not be used in detector or sound audio. Fil. volts 1.5 A-C; Fil. volts 1.05; Plate voltage 90 to 180 D. C. (2B1029 - List, $3.00; Net. each $1.79)

Type 227 A-C Detector and Amplifier

(Plugs in new 5 prong socket only.) May be used as detector or audio and R. F. heater voltage 2.5; heater amperes 1.75; plate voltage 50 to 100. D. C. (2B1030 - List, $6.00; Net. $3.45)
Buy SONATRON Tubes in Matched Sets

The Right Way to Purchase Tubes

Every tube matched on meter board, according to actual conductance. This is a guarantee that a set will give better results and show better tone quality.

Neutrodyne, tuned radio frequency and superhet sets need matched tubes for perfect operation and for volume on distance.

SONATRON Matched Tubes for demonstrating sets because of tone quality and volume. Unmatched tubes cause many sets to tune very broad.

<table>
<thead>
<tr>
<th>TUBE COMBINATIONS</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combination S-1</td>
<td>For New Sets</td>
<td>$7.75</td>
</tr>
<tr>
<td>Combination S-2</td>
<td>For Old Sets</td>
<td>$8.88</td>
</tr>
<tr>
<td>Combination S-3</td>
<td>For New Sets</td>
<td>$8.63</td>
</tr>
<tr>
<td>Combination S-4</td>
<td>For Old Sets</td>
<td>$8.00</td>
</tr>
<tr>
<td>Combination S-5</td>
<td>For New Sets</td>
<td>$6.88</td>
</tr>
<tr>
<td>Combination S-6</td>
<td>For Old Sets</td>
<td>$9.75</td>
</tr>
</tbody>
</table>

SONATRON Tubes for “B” Eliminators

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE 213</td>
<td>Full Wave Rectifier for “B” Eliminator</td>
<td>$2.25</td>
</tr>
<tr>
<td>TYPE 216</td>
<td>Half Wave Rectifier for “B” Eliminator</td>
<td>$3.75</td>
</tr>
<tr>
<td>TYPE 280</td>
<td>Full Wave Rectifier for “B” Eliminator</td>
<td>$2.75</td>
</tr>
</tbody>
</table>

Hi-Mu Tubes

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 10 days from the day of shipment, and if you are not completely satisfied, the tubes are not returned 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 couplings used.

<table>
<thead>
<tr>
<th>TUBE COMBINATIONS</th>
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<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combination S-1</td>
<td>For New Sets</td>
<td>$10.50</td>
</tr>
<tr>
<td>Combination S-2</td>
<td>For Old Sets</td>
<td>$12.00</td>
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<tr>
<td>Combination S-3</td>
<td>For New Sets</td>
<td>$11.00</td>
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<td>Combination S-4</td>
<td>For Old Sets</td>
<td>$10.00</td>
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<tr>
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<td>$8.00</td>
</tr>
</tbody>
</table>

We pay freight as per offer given on page 3
Standard Radio Tubes

The Continental Tube offers the same quality and standard exter- test and fully guaranteed—volume production makes this price possible. The greatest and most sensational price reduction ever offered in a high quality standard meter test guaranteed radio tubes. No job lot or old style base tubes but genuine Continental tubes. "Firsts" of their kind! The most test and standard production and large volume business enables us to offer Continental quality tubes at the lowest rate of $1.00 for the 201A type.

Every tube 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 a performance reading of 50-60 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 knowhow gained from years of specialization are incorporated in their manufacture.

Continental Tube is absolutely guaranteed against all defects—no returns—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

<table>
<thead>
<tr>
<th>Article Number</th>
<th>Type</th>
<th>Retail Price</th>
<th>NET EACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2B650</td>
<td>201A</td>
<td>$1.00</td>
<td>$0.59</td>
</tr>
<tr>
<td>2B651</td>
<td>100</td>
<td>$1.75</td>
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<tr>
<td>2B652</td>
<td>200A</td>
<td>$2.50</td>
<td>$1.39</td>
</tr>
<tr>
<td>2B653</td>
<td>171</td>
<td>$2.50</td>
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<tr>
<td>2B654</td>
<td>112</td>
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</tbody>
</table>

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 


delayed protection against handling and breakage. The shield being mounted to the negative "A" terminal gives complete elimination of stray capacities, 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 withstands round and round any time loss of efficiency is slighted.

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 in the 199 type a reading of 20-25. That's real quality! Other types are of correspondingly good performance.

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<tr>
<td>2B654</td>
<td>112</td>
<td>$2.50</td>
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</table>
G E N U I N E

Raytheon Rectifier Tubes

The Raytheon tube has revolutionized the B-eliminator.

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.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Output</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>326607</td>
<td>B</td>
<td>60 Mils.</td>
<td>$4.50</td>
<td>$2.65</td>
</tr>
<tr>
<td>2BB51</td>
<td>BH</td>
<td>125 Mils.</td>
<td>4.50</td>
<td>2.65</td>
</tr>
<tr>
<td>2BB608</td>
<td>BA</td>
<td>350 Mils.</td>
<td>7.36</td>
<td>4.41</td>
</tr>
</tbody>
</table>

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 2½ amps.

2BB609—List. $4.50. NET. $2.65

Q. R. S. Rectifying Tubes

Full wave gaseous rectifier tubes that serve efficiently for all “B” Eliminators.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Output</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>366511</td>
<td>B</td>
<td>85 Milliamp.</td>
<td>$2.65</td>
<td></td>
</tr>
<tr>
<td>366512</td>
<td>D</td>
<td>400 Milliamp.</td>
<td>$4.50</td>
<td></td>
</tr>
</tbody>
</table>

Na-Ald Power Tube Adapters "Connectoids"

Perm 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. Those adapters are in general use and provide a simple means for using the new tubes in many of your old sets. Each, 75c.

3BB28—Na-Ald No. 120—Adapts UX120 and similar tubes to standard base sockets. List. $1.25. NET. 81c

3BB29—Na-Ald No. 112. Perm use of UX112, UX117 and similar power tubes in standard sets. List. $1.50. NET. 98c

Quietron Tube Cap

The Quietron is a dome of nickedled brass, slotted and fitted with felt washers to give it a firm grip of the tube. Simply place a Quietron on any ringling, howling detector or amplifier and the noise stops at once. Why? By the weight of the Quietron. Microphonic noises are started by mechanical vibrations which shake the tube. The Quietron balances the tube in such a way that it 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 jars and shocks 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. Put them in new sets and...
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.

CX301A, UX201A Amplifier

A four-tube amplifier designed to operate with dry batteries. Plate voltage 135 v., grid bias 10 v., with plate current 50 ma, output 0.5 ampere. Has standard universal type socket.

CX111, UX1021, UX1022 Amplifiers

A full-wave rectifier. Has output of 0.5 ampere. Has new X type universal base.

UX1023—UX1110, UX1033 Amplifiers

New high current consumption, which is essential for efficient operation. Interchangeable with UX2116A-UX2117, UX2118A-UX2119A and UX2120A in any standard socket. One output 0.5 ampere at 1.1 volts, D. C. output voltage 100 volts. Plate voltage 500 volts. Heater current 1.75 amperes; D. C. plate voltage 500 volts. Has special double contact, type socket.

UX2150A—UX2159A A half-wave rectifier used to supply unidirectional current from alternating current. Has 25 milliamperes at 22 volts of "ht" battery. Should be used in all circuits. Plate voltage 100 volts. Heater current 1.75 amperes; D. C. plate voltage 100 volts. Has double contact, type socket.

UX2160A—UX2161A A detector tube containing a heater element designed to operate on 400 volt "ht" battery. Should be used in all circuits. One output 1 ampere at 22 volts of "ht" battery. Should be used in all circuits.
<table>
<thead>
<tr>
<th>Product Name</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jefferson Tube Rejuvenator</td>
<td>Doubles and Trebles 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. 3B170 - For all types of tubes in set. Rejuvenates and pays for itself many times. A. C. List, $6.00. NET PRICE $3.75.</td>
<td>$2.65</td>
</tr>
<tr>
<td>Sterling B-Eliminator Voltage Tester</td>
<td>An accurate high resistance voltmeter. Will test any battery or circuit up to 300 volts. Any service man or set owner can get the actual out--put of any &quot;B&quot; eliminator in a quick and specific manner. Set contains a H. T. battery, right socket, power voltage for set operation. Nevis before has such a high resistance tester been available at this remarkably low price. Size: 3x5x14 in. Shipping weight, 1/4 lb.</td>
<td>$4.99</td>
</tr>
<tr>
<td>Hoyt Radio Rotary Meter</td>
<td>A precision volt-amperemeter D'Arsonval Type. Mounted on a beautifully polished mahogany base; size, 7x5x2 in. shipping wt., 8 lbs.</td>
<td>$15.48</td>
</tr>
<tr>
<td>Jewell Radio Service Set</td>
<td>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, 10, 140 and 280 volts for testing A batteries, B batteries and C battery or D eliminator; a combination meter with range for filament and plate voltages from 0 to 150 volts; 0 to 7 amperes, zero to 15 milliamperes and zero to 10 milliamperes for tube testing and plate voltage. Also a 0-140 scale for total filament current or charging, 0-200 scale. Dimensions overall 4x5x3 1/2 in. Shipping wt., 3 lbs.</td>
<td>$15.48</td>
</tr>
<tr>
<td>Sterling Tube Charger</td>
<td>Will charge all types of tubes while in set. Maintenance and restores efficiency. Operates from 110-v., 60 cycle A.C.</td>
<td>$6.00</td>
</tr>
<tr>
<td>Sterling Tube Checker</td>
<td>Checks all tubes including the 1211, 1212 types and 200-A detector. Equipped with a rheostat and internal lamp to show if tube needs resotration and to what degree the filament emission has been retarded by the process. Includes tube socket and tester plug, adapter for small tubes included. Size, 6x2 1/4 x 3 3/8 inches high. Shipping weight, 1/2 lb.</td>
<td>$7.35</td>
</tr>
<tr>
<td>Readrite No. 210 - Tube Checker</td>
<td>Has 0-6 millimeters, 0-40 milliamperes, and bias switch, rheostat, standard socket and binding post for making connections—all assembled on nearly finished metal case. Instructions for using included. Shipping wt., 2 lbs.</td>
<td>$66c</td>
</tr>
<tr>
<td>Sterling &quot;Home&quot; Tube Tester R-411</td>
<td>For testing all large tubes, including 300-A, 112 and 111 types. Simple to operate—exchange positions of tube and tester plug, adjust indicator hand to arrow through rheostat on meter and press tester button. Indicator hand shows whether tube is &quot;good,&quot; &quot;fair&quot; or &quot;poor.&quot; No computations. Size, 13x2 1/4 in. high. Shipping wt., 3 lbs.</td>
<td>$4.40</td>
</tr>
<tr>
<td>Sterling &quot;Metered&quot; Tube Rejuvenator R-403</td>
<td>For large and small tubes, including 300-A, 112 and all tubes having thoriated filaments. Emission meter enables the user to determine whether the tube needs restoration and to what degree the filament emission has been retarded by the process, on basis of test. Shipping weight, 1 lb.</td>
<td>$15.15</td>
</tr>
<tr>
<td>Readrite Home Tube Tester</td>
<td>Equipped with an accurate milliammeter. Meter detachable for counter testing. Is provided with a switch which places a bias on the grid according to 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 A, B, C types and 5 volt tubes. Shipping wt., 1/2 lb.</td>
<td>$1.95</td>
</tr>
<tr>
<td>Sterling &quot;Universal Service&quot; Tester</td>
<td>Used either with &quot;A&quot; and &quot;B&quot; batteries or &quot;A&quot; and &quot;B&quot; socket power units. Tests large and small tubes up to 1121 type, including 111 type. Milliammeter shows amplifying strength of amplifier tube. Combination voltmeter tests both &quot;A&quot; and &quot;B&quot; battery voltages. Locates defective circuit wiring, open or shorted transformers, poor contacts in tubes, sockets, etc. Voltmeter 0-10, 0-200 scale. Milliammeter 0-100 scale. Wiring diagram of battery hook-up for counter testing furnished. Size. 6x21/4 x 3 3/8 inches high. Shipping weight, 1 lb.</td>
<td>$14.70</td>
</tr>
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WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3
DISTANCE—Here is the receiver for the man who wants the most powerful and sensitive set it is possible to build. A claim to have received certain stations once or twice, but the World's Record Super proved its claim to consistent range by bringing in stations distant 6,000 miles or more, night after night. Below are a few of the principal records made by this remarkable receiver:

(1) World's Record for the greatest distance voice has been heard with a receiver using LOOP aerial only. WCRD was heard at New Zealand—on air line distance of 3,735 miles on March 17th.

(2) World's Record for the greatest number of stations heard which are less than 6,000 miles from antenna. A total of 12 stations were brought in.

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

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

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

KEEN, NON-CRITICAL SELECTIVITY — Consistent long distance reception is only one of the attributes of the World's Record Super 10. The amazing sensitivity of this remarkable radio, making possible these astounding feats of long distance reception is further enhanced by keen, non-critical selectivity. The World's Record Super 10 tunes through the local stations with ease and unloading 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. This receiver uses 201-A type tubes in all except the final 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.

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. Those 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 conneced in a circuit that has as its baste 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.

Front View of World's Record Super 10

As Specified by Citizens Radio Call Book

Holds All Principal World's Long Distance Records

The World's Record Super proved its claim to consistent range by bringing in stations distant 6,000 miles or more, night after night. Below are a few of the principal records made by this remarkable receiver:

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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 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.
The World’s Record Super 8

**A World-Wide Favorite**

**$51.95 Net**

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 World’s Record Super for long distance reception, and is one of the most efficient ever developed.

The Selectone Transformers used in the I. F. stages are supplied in perfectly matched sets consisting of two interlaced frequency transformers and two sharply tuned filter transformers, and gives the set high-fidelity selectivity, as that used in the famous set that established the world’s records for long distance reception, and is one of the most efficient receivers used in the I. F. stages for long distance reception, and has provided the set a selectivity to the two stages of tuned IF. AHEAD of the lot detector which picks up the signal. This new amplifier adds considerably and reduces the number of barreled up by the I. F. detector alone.

This unit may also be used with a detector and audio unit to make a very efficient tuned radio frequency receiver. It is specially designed for increasing the range of any Super amplifier.

**Scott Selectone Transformers for Baseboard Mounting**

These transformers made the World’s Record Super Nine so good. Type R400 is an intermediate transformer with closed iron core. Peak frequency of 43 K. C. 2 type R400 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. Shipment, 1 lb.

**New Selectone Two Stage RF Super Amplifier**

This unit uses the new Selectone R. F. transformers and is specially designed for addition to existing super sets, enabling them to obtain loud speaker volume from distant stations that were previously heard only on earphones. The reason for this is simply explained. The ordinary super can only amplify the signal detected by the first detector. This new amplifier, the Selectone R. F. AHEAD of the I. F. 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 selectivity considerably and reduce the number of barreled up by the I. F. detector alone.

**LIST OF PARTS**

- 2 Remler Condensers No. 619,.0005 mfd. @ $5.00, $10.00
- 1 Hammarlund Midget cond., @ $15.00, $25.00, 1 Selectone Oscillator Coupler No. 310, $3.50
- 2 S. M. Audio Transformers @ $5.00, $10.00
- 1 Selectone Transformer @ $5.00, $10.00
- 10 Benjamins sockets, $1.50, 8 henriksen sockets @ 75c, $5.00, 3 type I. F. Iy-Pass Condensers @ $5.00, $10.00
- 1 Carver .050 mf. Flx. Cond., 56c, 1 Carve .050 mf. & .010 mf. Cond. @ $1.50, $2.50
- 1 Carter 1/15 ohm Fixed Res., 35c, 1 Carter Imp. Rheo. with aw. 6, $1.50, 2 Carter J. Jacks No. 10 @ $1.00, 30c, 1 Carter 10 ohm Fixed Res., 25c, 3 XL Blinding Posts, 45c, 2 Kurr-er Kneb Dials 360 degrees @ $2.00, $4.00, 1 Bakelite Panel 6x12 in., $1.00, Miscellaneous Lugs, Screws, etc., 50c, 20 ft. bus bar No. 14, 25c, Blue Print, 50c, Jones Multiplex D1, $2.50

**LIST OF PARTS**

- 1 Remler two gang cond., .0005 mfd., $12.00
- 1 Kurr-Kneb Weinser 1141, @ $10.00
- 2 Selectone R. F. Transformers, B500 @ $5.00, $10.00
- 1 Neatco Transformer B500, $5.00
- 1 Carter Rheo IR-15 ohm, $1.50
- 12 Benjamins sockets, $1.50
- 12 XL Blinding plugs, 45c
- 3 binding screws, 45c
- 1 Bakelite Panel 6x12 in.

**LIST OF PARTS**

- 1 Remler two gang cond., .0005 mfd., $12.00
- 1 Kurr-Kneb Weinser 1141, @ $10.00
- 2 Selectone R. F. Transformers, B500 @ $5.00, $10.00
- 1 Neatco Transformer B500, $5.00
- 1 Carter Rheo IR-15 ohm, $1.50
- 12 Benjamins sockets, $1.50
- 12 XL Blinding plugs, 45c
- 3 binding screws, 45c
- 1 Bakelite Panel 6x12 in.

**8 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. The following parts were designed to operate a 170 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 today’s new Super Ten 10. The maximum undistorted output of the 210 power tube at 450 volts is 1,510 milliwatts. This simply means that the 210 power tube will deliver more than TWICE the output of a 170 power tube.

The 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 Thorndarson Power Transformer No. 2058
- 1 Thorndarson Coke Coil No. 2009
- 1 Sangamo or Tohe R 210 Condenser Block
- 1 Carter SI-29M Resistor: 2 SM 511 sockets; 7 Binding Posts; 7 hole Binding Post Strip; 1 Wood Baseboard, $1.50

**$30.97 Complete set of parts.**
The New Improved 9-in-Line Makes Greater DX Records

As Specified by Citizens' Radio Call Book

Easiest to Build

List Price: $130.85

$74.95

Wonderful Tonal Quality

The fully balanced system assures an extremely quiet operation. There are no regenerative howls or oscillations. It yields into station after station with unvarying smoothness. The sweet-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 quietly 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 homes.

List of Parts

- 3 H.F. Transformers No. H120 @ $8.00, 2 H.F. Transformers No. H125 @ $8.00, $16.00; 2 H.F. Transformers No. C16, $16.00; 1 H.F. F. Choke No. L425, $5.50; 1 H.F. F. Transformer No. L430, $5.50; 1 H.F. Output Transformer, $8.00; 8 Benlamin Pockets No. 9041 @ 50c; $1.60; 2 Benlamin Bracket No. 8629, 70c; 1 Remler Drum Dial, $4.50; 1 Remler Drum Dial, 110L, $4.50; 2 Remler .0005 MF Yartvile Condensers No. 640, $10.00; 1 Silver-Marshal No. 340, $6.00; 1 Muller Condenser, $1.50; 3 Carter I M. R.F. By-Pass Condensers @ 11-25, $5.00; 1 Tuboe .000005 MF Fixed Condenser, 50c; 2 Tuboe .000002 MF Fixed Condenser, 40c; 1 Carter 6 ohm Rheostat with switch, $1.00; 3 Carter Cord Tip Jacks, 70c; 1 Carter 200,000 ohm variable resistance, $2.25; 1 Poten % amp. ballast resistor with mounting, $1.00; 1 Jones Multi-plug II M., $1.50; 1 Formica .0005 MF Crystalline, $1.50; 2 Jones Multi-plug II M., $1.50; 1 Formica 7x24x% drilled and engraved front panel, $4.50; 1 Celeron 7x24x% Drilled and engraved front panel, $4.50; 1 Various Arne Celestial Wire, 80c; 1 Flame-pot solder, .006; 1 Set Blueprints, $1.25; Miscellaneous Lug Screws, Nuca, etc., 8c.

Total cost of Parts, List Price $130.85, NET $74.95

Shipping weight, 25 lbs.

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.

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 efficiency. A notable feature of the H. F. L. layout is that there are no plate and grid leads, the lugs 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 to turn about it even the inexperienced builder can assemble it.

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 inexperience builder can assemble it.

New H. F. L. Output Transformer

C-25 Output Transformer—same general design as audio transformer. Process involves precision, and blasting, voice reproduction is somewhat near perfection. Amplification of frequencies will operate with all power and standard type triodes. A notable feature of the H. F. L. layout is that there are no plate and grid leads, the lugs 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 to turn about it even the inexperienced builder can assemble it.

Famous H. F. L. Units

Designed for base board or invisible panel mounting. Enclosed and sealed in uniform size genuine bakelite mounting. Isolated against electrical interference. The speaker transformer with high amplification factor. Range 32 to 42 kilocycles.

New H. F. L. Push-Pull Transformers

Push-Pull Transformer C-167, C-168—The ultimate in quality. Covers even harmonics, matched primary and secondary. A notable feature of the H. F. L. layout is that there are no plate and grid leads, the lugs 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 to turn about it even the inexperienced builder can assemble it.

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 efficiency. A notable feature of the H. F. L. layout is that there are no plate and grid leads, the lugs 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 to turn about it even the inexperienced builder can assemble it.
The Camfield Super-Selective Nine

Sensitive, Selective!
The circuit used has many features.

As Specified by Citizens' Radio Call Book

LIST OF PARTS

3B349—Complete Set of Parts, Ltd. $71.95
Shipping weight 1 lb.

The Camfield Duoformer Seven Receiver

As Specified in Citizens' Radio Call Book $62.95
The duo formers are wound

LIST OF PARTS

3B351—Camfield, List Price, $5.45, NET Shipping 4 lbs.

Camfield Duoformers
The Duoformers are wound

Camfield Type 620 Coupling Unit
The Camfield coupling unit is

3B3741—Type 22 Duoformer, Each, List, $3.30, NET $2.10

3B3740—Type 22K Camfield Duoformer, 5 sets of 3, Matched, List, $17.80, NET $5.88

3B3742—Camfield, No. 620 Camfield Unit, Ltd., 60 NET, EACH $2.06

3B3744—Brown 10kc Matched Pair, List, $5.00, NET $3.02

3B3745—Brown No. 17, NET 3.53

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3
The Improved REMLER 45 K. C. Super
As Specified In Citizens Radio Call Book $63.75

LIST OF PARTS

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Price</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Camfield .005 m. f. Var. Cond.</td>
<td>$5.00</td>
<td>5.00</td>
</tr>
<tr>
<td>2 Remler Transforms No. 600 @ $6.00</td>
<td>$12.00</td>
<td>2 Dubilier .0005 m. f. Fix. Cond.</td>
</tr>
<tr>
<td>2 Dubilier .0005 m. f. Fix. Cond. @ $6.00</td>
<td>$12.00</td>
<td>2 Dubilier .0005 m. f. Fix. Cond. @ $6.00</td>
</tr>
<tr>
<td>75c; 2 Dubilier .0025 m. f. Fix. Cond. @ $6.00</td>
<td>$12.00</td>
<td>1 Dubilier 1 m. f. By-Pass Cond. 96c; 1 Dubilier 3 m. f. By-Pass Cond. 75c; 1 Davies 2 meg. Grid Leak, 50c; 1 Davies Grid Leak Mic. 35c; 1 Silver-Marshall .00005 Midget Var. Cond.</td>
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<tr>
<td>360-Complete set of parts. List Price, $10.45</td>
<td>$10.45</td>
<td>360-Complete set of parts. List Price, $10.45</td>
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</tbody>
</table>

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 gear; no body capacity. Shipping weight, 2 to 5 lbs.

<table>
<thead>
<tr>
<th>Part Description</th>
<th>List</th>
<th>Net</th>
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</thead>
<tbody>
<tr>
<td>3B41462-Double SLW. .0005 MF</td>
<td>12.00</td>
<td>8.00</td>
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<tr>
<td>3B41463-3-gang SLW. .0005 MF</td>
<td>15.00</td>
<td>8.82</td>
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<td>3B41464-3-gang SLW. .0005 MF</td>
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<td>8.82</td>
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<tr>
<td>3B41562-Single SLW. .0005 MF</td>
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<tr>
<td>3B41563-Single SLW. .0005 MF</td>
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<td>3B41566-Single SLW. .0005 MF</td>
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<tr>
<td>3B41567-Single SLW. .0005 MF</td>
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<tr>
<td>3B41568-Single SLW. .0005 MF</td>
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<td>4.94</td>
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</table>

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.

<table>
<thead>
<tr>
<th>Part Description</th>
<th>List</th>
<th>Net</th>
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</thead>
<tbody>
<tr>
<td>3B41239-Lst. 50c</td>
<td>50c</td>
<td>50c</td>
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</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Description</th>
<th>List</th>
<th>Net</th>
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<tbody>
<tr>
<td>3B41469-35 Choke Coil, Lst.</td>
<td>53c</td>
<td>53c</td>
</tr>
</tbody>
</table>

Remler Drum Dial

Unquestionably the finest dial on the market. Smoothest running dial we have seen. Spiral gear drive quiet operation. No hack lash, vernier tuning to a half hair's breadth. 6 inch dial space 6 volts held into 200 divisions. Embossed dial, indicator. 360 degree condenser. 6 volt lamp and socket for vernier illumination. Easily mounted. Will drive any standard condenser, single or in gangs. Template furnished. Shipping weight, 2 lbs.

<table>
<thead>
<tr>
<th>Part Description</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B41667-Condenser Mounts on Right Side</td>
<td>$2.65</td>
<td>2.65</td>
</tr>
</tbody>
</table>

Remler Standard Dial

The well-known dial made of aluminum. Bakelite knob, fits any 1/2 inch shaft. For 360 degree condenser, Cardboard dials for logging. Shipping weight, 2 oz.

<table>
<thead>
<tr>
<th>Part Description</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B41686-No. 636 Remler Dial</td>
<td>$1.00</td>
<td>1.00</td>
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</tbody>
</table>

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 special rings. Pkg. Rester Solder, 25¢; Miscellaneous Lugs, Screws, Nuts, etc. $1.65; Pkg. Acme Celatisite Wire, $1.60; Blueprints, $1.00.

<table>
<thead>
<tr>
<th>Part Description</th>
<th>List</th>
<th>Net</th>
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</thead>
<tbody>
<tr>
<td>3B41291-List</td>
<td>$2.94</td>
<td>2.94</td>
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</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Description</th>
<th>List</th>
<th>Net</th>
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</thead>
<tbody>
<tr>
<td>3B42643-List, 50c</td>
<td>30c</td>
<td>30c</td>
</tr>
</tbody>
</table>
The New 1928 Remler DX Infradyne

The cabinet problem is solved by a beautifully
embossed copper cabinet (finished in a
baked crystaline of a
neutral shade), 10 inch
tall and 20 inches
long. You will agree with us that it is the finest kit
you have ever seen.

Times have changed.

Home built radio is now
ahead of the factory built set. In this set, all metal construction
illuminated drum control, complete shielding, automatic
ahead of the factory built set. In this set, all metal construction
and selectivity and the highest tone quality obtainable, make it the best set on the
American market.

REMLER Radio Frequency Amplifier

No. 710 R. F. Amplifier incorporates
a detector. Entirely enclosed in a solid copper case which
provides complete electromagnetic
shielding. Designed for use with
Remler Drum Dial or ordinary 360
degrees dial. An antenna compensator is also included, which
nullifies the detuning effect of the antenna on the first or
second stage of the amplifier. It is in true
single control amplifier. A switch is
provided for increasing the selectivity of the
radio receiver. It includes solenoid coil, Remler sockets and special re-
 sistances. Put it on any set to increase the range
and selectivity. Shipping wt., 15 lbs.

REMLER Infradyne Cabinet and Base

Cabinet is pure sheer copper embossed in two tone bronze
crystal lacquer with
shield for the
Shipping wt., 10 lbs.

REMLER Infradyne Amplifier

The famous 80 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
radio frequency or intermediate frequency sets. Makes a marked
improvement in selectivity and sensitivity of any set. Instrument
control of hoketile and nickel-plated brass on polished
Bakelite panel. Shielded in a lacquered copper cabinet.
Shipping wt., 2 lbs.

REMLER Infradyne Amplifier

As Specified in Citizens Call Book and Radio

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Remler Infradyne Cabinet and base</td>
<td>$15.00</td>
</tr>
<tr>
<td>1 Jewell 0-3 volt meter No. 138.</td>
<td>7.00</td>
</tr>
<tr>
<td>1 Remler Infradyne Amplifier</td>
<td>16.00</td>
</tr>
<tr>
<td>1 Silver-Marshal 220 Audio</td>
<td>16.00</td>
</tr>
<tr>
<td>1 Silver-Marshal 221 Output Trans.</td>
<td>7.50</td>
</tr>
</tbody>
</table>

$105.75

REMLER Infradyne Amplifier

Infradyne Foundation Unit

Kit containing all parts needed for the construction of the
model DX Infradyne receiver except the radio frequency ampli-
cifer, cabinet, Infradyne amplifier, voltmeter, and audio trans-
formers. Included panels, rheostats, dials, diagram, jacks,
special coil, resistances, cables, nuts, screws, etc. Shipping wt., 30 lbs.

$30.58

LIST OF PARTS

1 Remler Infradyne Foundation Kit Includes panels, rheostats, dials, diagram, jacks, etc. $62.00
1 Remler R. F. Amplifier, shielded with Antenna Com-

$65.00

$32.34

$8.82

The Remler Improved Infradyne Receiver

Ten tubes with Simplified
Control. Two Stage R. F. Amplification, Oscillator, Fine
Detector. 3 Stages of Gain in a Sheet copper
Cabinet is pure sheer copper embossed in two tone bronze
crystal lacquer with decorated wood base. Size 11x26 inches

$8.82

$38.779 - List, $15.00, Net.

$84.43

$38.54 - Complete Kit of Parts, $133.61

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3
The Improved Aero-Six Receiver

The Aerodyne Six is a set with a national reputation for performance. Commercial use of 5 stages tuned radio frequency amplification, together with the use of the new and 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 peer 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 Size 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 Discs $6.00; 2 Silver-Marshall Transformer $15.00; 4 Elmore .0005 Condensers $25.00; 1 Benjamin Socket, No. 9040 75c; 5 Silver-Marshall 100 Megohm Potentiometer 35c; 1 Carter Grid Cond.; with clips 50c; 1 Tubo 2 Meg. Grid Leak, Tipon 50c; 1 Carter .001 MF. Grid Cont. with clips 50c; 1 Carter .00025 Condenser with ellins 50c; 1 tuning busbar 25c.

Shipping weight, 20 lbs.

The Aerodyne Seven Receiver

The Chicago Daily News Four Tube Receiver

A four tube receiver using the famous acre 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 listeners. The tickler employed gives a new kind of tone-quality that is smooth and even over the entire dial. Selectivity a patient 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 radio builder. Instructions included.

List of Parts

1 Aero Foundation Unit $5.75; 1 U-05 Aero Kit (2 coils) $8.90; 2 .0005 Mfd. Amoco cond. 75c; 1 Amoco .0005 mfd. cond. 35c; 2 S-M Drum Discs @ $3.00; 6 Silver-Marshall Transformer 55c; 1 Benj. X Socket 75c; 2 S-M 511 Socket 50c; 1 Carter Binding Post 1.65; 2 Carter .0005 Mfd. Condensers 1.50; 1 Carter .0035 Mfd. Condenser with clips 50c; 1 Tubo 2 Meg. Grid Leak, Tipon 50c; 1 Carter 6 ohm Rheostat. Midget 75c; 1 Carter 200 ohm Potentiometer, Midget 75c; 1 Carter 6 ohm Potentiometer, Midget 75c; 1 Carter .001 MF. Condenser 40c; 10 XL Leaks, Tipton 50c; 1 Carter Filament Switch 65c; 2 Carter .5 MFD. Condensers 25c; 3 A. C. tubes. Range 200-550 meters. Used in Aero-Seven circuit. Shipping weight, 20 lbs.

R. F. Kit for Aero-Six

Kit consists of 4 twice matched coils—such as are used in the 14000 series. 2 A. C. tubes. Range 200-550 meters. Used in the Aero-Six circuit. Shipping weight, 1 lb.

List of Parts

3B1040—U-16 for .0005 Condenser
3B1044—U-163 for .0009 Condenser.

List, Set: $15.00.

R. F. Kit for Aero-Seven

Kit consists of 3 twice matched Coils—such as are used in the 14000 series. 2 A. C. tubes. Range 200-550 meters. Used in the Aero-Seven circuit. Shipping weight, 1 lb.

List of Parts

3B1042—U-12 for .0003 Condenser
3B1044—U-123 for .0009 Condenser.

List, set: $12.00.
Super-Sensitive Aeroc Universal Coils are extremely small in size and exceptionally practical for all set and circuit building purposes. They are especially low in vertical mounting and have a tendency to stay on all the new coils. They are made for use with either .0003 or .0005 condensers.

Aero Universal Coils are twice matched—i.e., on both the high and low frequencies. This permits their use with .0003 or .0005 condensers, where exceptional care in matching is necessary. Sharp selectivity, true tone qualities, long range, and volume are all possible with AERO UNIVERSAL COILS.

Aero Universal 3 Circuit Tuner Fixed tickler using .0005 variable condenser for regeneration. Very low, low-cost antenna incorporates the famous AERO Universal Coils. For a 200, 199, 112, or new A. C. tubes. Range 200-550 meters. Shipping weight, 8 oz. List each, $4.00. NET $2.35

Aero Universal Antenna Complier Same construction as 3 Circuit Tuner. A simple, low-cost antenna complier incorporates the famous AERO Universal Coils principle. For a 200, 101, 129, or new A. C. tubes. Range 200-550 meters. Shipping weight, 5 oz. List each, $4.00. NET $2.35

Aero Universal Wave Trap Unit Makes very efficient wave trap or may be used to make crystal set more efficient. Low distributed capacity a n d resistance. Eliminates interference. Used in Radio News wave trap. Range 200-530 meters. Shipping weight, 8 oz. List each, $4.00. NET $2.35

Aero Universal 3 Circuit Tuner Built in the famous low loss fashion, it is the most efficient three-circuit tuner ever offered. All variable tickler, adjustable primary. Range 200-575 meters with .0003 condenser. Shipping weight, 1 lb. List, $5.00. NET $3.23

Aero Choke Coils Designed for uniform choking over a wide range of operating frequencies. Includes Broadcast and Amateur bands. Eliminates appearance of so-called "holes" in the tuning range. Shipping weight, 8 oz. List each, $5.00. NET $3.23

Aero Subpanel Brackets Heavy gauge metal brackets for mounting sub-panel, R. F. and A. C. tubes. Range 200-550 meters. Shipping weight, 1 lb. List each, $4.00. NET $2.35

Aero Transmitter Kits Aeroc Transmitters are shown In the Amateur Section on page 83-85.

Aero Universal Wave Trap Unit List Price, per set, $8.00, NET $7.05


Famous Melo-Heald Hot-Spot Fourteen True One Spot Tuning As Specified by Citizens Radio Call Book.
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 400 (112KC) 2 stage long wave amplifier—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 25 or 40 foot antenna, in preference to a popular hack短期 500 to 1,500 meters; or one 116E and two 115D for 3,000 meters. May be used with all tubes and power units.

List of Parts

Silver-Cockadaday S-CII Receiver

4 Tubes with the Power of Five

400 to 1,500 meters; or one 116E and two 115D for 3,000 meters. May be used with all tubes and power units.

List of Parts

Silver-Cockadaday S-CII Receiver

4 Tubes with the Power of Five

500 to 1,500 meters; or one 116E and two 115D for 3,000 meters. May be used with all tubes and power units.

List of Parts

Silver-Cockadaday S-CII Receiver

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500 to 1,500 meters; or one 116E and two 115D for 3,000 meters. May be used with all tubes and power units.

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Silver-Cockadaday S-CII Receiver

4 Tubes with the Power of Five

500 to 1,500 meters; or one 116E and two 115D for 3,000 meters. May be used with all tubes and power units.
220 Audio Transformer

The finest produced regardless of price. Provides substantially identical amplification from 30-5000 cycles. Falls off at 5000 cycles, compensating against static, squeaks and noises above the speech 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, $8.00, NET

$4.70

220 Output Transformer

For use between last power tube and loud speaker. Prevents blasting or damage to speaker from direct current. Will improve 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

Type 222—Same as No. 221 except equipped with four phone tip jacks and a 5 foot heavy duty extension cord. Instantly attached to any radio receiver. Weight, 4 lbs., 3 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 or 3-1. Weight, 6 lbs., 1 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 its center tap, either 6 or 3-1. Designed to supply 1% and 2% volts at 10 MA. Will open 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 1% and 2% volts filament current required for operation of all A.C. tubes as well as 5 and 7.5 volts for the filaments of 112, 171, or 210 power tubes. Has two 250 volt, 125 MA secondaries; one 5 volt, 1 amp.; one 1.5 volt 6 amp.; and one 2.5 volt, 6 amp. secondary. For 105-120 volt 60 cycle operation. Complete with cord and plug. Weight, 4 lbs., 15 oz.

3B4835—List, $8.00, NET

$4.70

329-A Super Power 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 or 3-1. Weight, 12 amperes. Provided with electrostatic shield and equipped with cord and plug. Weight, 4 lbs., 10 oz.

3B4829—List, $11.00, NET

$6.47

328 Super Power Transformer

A full wave power transformer, for use with 216-B or 281 power tubes. Contains 2—550 volt, 125 MA secondaries, 5 volt, 1 amp.; one 1.5 volt, 6 amp.; and one 2.5 volt, 6 amp. secondary. A two winding high inductance choke licensed under the Clough Patent Application, its tuned section eliminates the 120 cycle ripple. With only 7 MA condenser capacity, it will satisfy for use in impedence coupled amplifiers. Weight, 8 lbs.

3B4837—List, $18.00, NET

$10.80

331 Uni-Choke

A two winding high inductance choke licensed under the Clough Patent Application. It tuned section eliminates the 120 cycle ripple. With only 7 MA condenser capacity, it will satisfy for use in impedence coupled amplifiers. Weight, 8 lbs.

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 thoriated type full wave rectifier tube. Contains 2-162 mf, and 1-16 mf 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 motor heating or other troubles when operating with a 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 at 311 or other type power tube. Guaranteed to operate up to ten tubes. Has 329A power transformer which also supplies A and C power for the new A.C. tubes. Weight, 13 lbs. 16 oz.

3B5663—62A complete (tubes included). List, $36.50, NET

$21.46

656A Wired Reservoir "B" Supply

3B5664—656A Reservoir B Assembled and wired by the Silver-Marshall factory. No tubes included. List price, $40.50, NET

$23.80

Unipacs

Universal Push-Pull Power Packs

T he 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 CX319 tubes in a push-pull amplifier. Also supplies A and C power for A.C. tubes. Weight, 4 lbs., 10 oz. Shipping weight, 40 lbs.

3B5659—Complete (no tubes included), List price, $93.25, NET

$48.93

666A Wired Unipac

3B5660—666A. The 660-210 Unipac completely assembled and wired (tubes not included) by the S. M. factory. List price, $93.25, NET

$54.83

660-210A Unipac

The S-M 660-210A Unipac is the finest power pack available. The CX316 rectifier, a CX374 glow tube for "B" voltage regulation and two CX319 tubes in a push-pull amplifier. Also supplies A and C power for A.C. tubes. Weight, 4 lbs., 10 oz. Shipping weight, 40 lbs.

3B5661—Complete (no tubes included), List price, $86.00, NET

$38.85

667 Wired Unipac

3B5662—667—The 669-171A Unipac completely assembled and wired (tubes not included) by the Silver-Marshall factory. No tubes included. List price, $76.00, NET

$44.65

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

S-11

656A Wired Reservoir "B" Supply

3B5664—656A Reservoir B Assembled and wired by the Silver-Marshall factory. No tubes included. List price, $40.50, NET

$23.80

Unipacs

Universal Push-Pull Power Packs

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 CX319 tubes in a push-pull amplifier. Also supplies A and C power for A.C. tubes. Weight, 4 lbs., 10 oz. Shipping weight, 40 lbs.

3B5659—Complete (no tubes included), List price, $93.25, NET

$48.93

666A Wired Unipac

3B5660—666A. The 660-210 Unipac completely assembled and wired (tubes not included) by the S. M. factory. List price, $93.25, NET

$54.83

660-171A Unipac

The S-M No. 660-171A Push-Pull Unipac provides a power pack vastly superior to any other 171 power pack on the market. Although 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.

3B5658—Complete (no tubes included), List price, $76.00, NET

$44.65
**S-M Interchangeable Plug-In Coils**

These coils have attained a justly deserved position of leadership. Their unique magnetic field, extreme uniformity, non-efficiency-low-loss design, are suitable for all circuits. Made for all ranges from 1 to 500 meters. Spring loaded all Bakelite coil springs having six threaded ridges providing practically air support. Rotors are of green silk wire on small Bakelite forms. Concentrated primary windings on some coils are also wound at the bottom of the grid winding. Very good for single control work because the coils of one brand are exactly alike. All coils are for use with 0.0005 mfd. variable condensers.

**Type 110-Stator** consists of 2 equal windings and an adjustable rotor.

<table>
<thead>
<tr>
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<th>Range</th>
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<tr>
<td>3B4815</td>
<td>Type B, 70-210 meters</td>
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<tr>
<td>3B4816</td>
<td>Type C, 30-75 meters</td>
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<td>Type E, 1100-3000 meters</td>
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<td>Type G, 30-75 meters</td>
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<tr>
<td></td>
<td>Type H, 1100-3000 meters</td>
<td>$2.94</td>
<td>$2.94</td>
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</tbody>
</table>

**Shipping weight, 110 and 111 coils, average 5 oz.**

3B4817—Front Wind Bakelite form with hardware included and rotor. Weight, 3 oz. List, $1.25. NET...

$0.74

**315 Coil Socket**

Moulded Bakelite rings with 6 contacts to take all S-M plug in coils. 2½ inches diameter, ½ inch thick. Shipping weight, 3 oz. 3B4818—List, $1.00. NET...

$0.59

**Type 316A Variable Condenser**

Designed to provide the electrical uniformity and mechanical rigidity necessary for control circuits. Modified straight-line frequency type providing equal spacing of stations over entire dial. Plates of soldered brass plate assemblies swinging 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 bushing clamps. Held together by steel tie rods. Capacity, .00007 to .00035 mfd. Weight, 1 lb. 3B4900—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 .00005 to .00014 mfd. Shipping weight, 1 lb. 3B4907—List Price, $4.50. NET...

$2.65

**Type 340 Condenser**

A small .000025 mfd. adjustable condenser, designed for complete shielding and antenna coupling. Brass plate mounted on bakelite end plate. Rotor and stator plates are 5 inches deep. Shipping weight, 1 oz. 3B4852—List, $1.50. NET...

$1.95

**Type 342 Condenser**

Same as 340, except capacity is .000075 mfd. Shipping weight, 1 oz. 3B4800—List, $1.50. NET...

$0.88
8 Tube Strobodyne
A Great New Circuit
by Radio News Laboratories

A new circuit—not an adaptation of an old type.

Designed by 1,1wlen five1, sponsored in America by R. E. Larcult and RADIO NEWS. Super-heterodyne type with entirely new frequency changer, operating on a new principle. Unexcelled for distance, with great selectivity. Outperforms best superhetetyes of today. Remarkable similarity. Station comes in at but one point of the dials. Tremendous volume, with no distortion.

With this set, WGY heard in France on loop and a direct signal on one foot square. DX of 1,300 to 2,000 miles set.

$15.75; 1 Set Hammarlund Strobodyne Colts @ $3.50. $10.00; and the home-builder can easily duplicate the results cited here.

Shields @ $2.00. $4.00; 2 Hammarlund Equalizing Condensers $18.00; 5 Lacault Fixed Matched Condensers @ 50c. $1.55; 1 Micelle 8 in. x 24 in. x 1/4 in. Drilled and Engraved Panel. $5.50; 1 Micarta 123x24x1/4 in. Drilled Sub-Panel, $13.50;

New Silver-Marshall 240 Transformer

A new small transformer for replacement in present sets. Second only to S-M 220, Standard line amplification 30 to 5000 cycles then falls off to zero for static and regenerative squelch. Turns ratio 2/1. Size: 3x3x2.2 x. Weight, 2 lbs. 4 ounces.

381342—List, $6.00. NET. $3.53

805 Vernier Drum Dial

Attractive oxidized brass panel window. Simple to mount. Suitable for any type of control. Standard for right or left hand mount. Dial controlled by panel knob, and may be illuminated by small panel light. Set to get 1 x 4-1/2 inches. Shipping weight, 12 oz.

384802—List, $3.00. NET. $1.76

The New Shielded Ultradyne
A Perfected 9 Tube Super as Specified in Radio News

The ultradyne circuit was one of the earliest and most successful superhet systems. 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-coupled coupling system which provides equal transfer of energy on all wave lengths. The "tail-thought" employed as the intermediate-frequency transformers are very efficient and have 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 output filter an undistorted output of great volume. All important circuits are by-passed by large fixed condensers.

The complete circuit 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 tail and oscillator circuits are completely shielded.

Easy to wire and operate. Will give long distance reception with the clearest tones.

383445—Complete set of parts. List, $130.55. NET. $77.95

S-M Link Motions

180° mechanical link designed for coupling two or three condensers (4 inches between centers) for single dial operation. Shipping weight, 6 ounces.

384906—637 Trivium for 2 condensers. List, $7.50. NET. $1.47

384906—667 Double for 2 condensers. List, $2.00. NET. 1.18

631 Stage Shield

An aluminum can with removable top and bottom. 1.5x3x5/8 inches. Perfectly suited for S-M condenser. $15 coil socket, 24 volt pass, choke by-pass condenser and all leads. Weight, 12 ounces.

384850—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

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 uncertain engineering progress.

Superior Selectivity and Tone

The Tyrman Ten is a receiver of great selectivity and unrivalled tone. The radio frequency transformers are matched in a fraction of one per cent. They are designed for more amplification—better selectivity—stable operation. True 5 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 and 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 and the fidelity is so high that the casual listener is led to feel that it is the source of sound rather than the receiver that is performing. This is one of the outstanding ten-tube receivers of the 1928 season.

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 dial. No bothersome harmonics and interference. The set is therefore more sensitive and is easier to operate. One stage of radio frequency amplification is used before the first detector. In order to better select and make the set suitable for use on an outside antenna, it is necessary to use 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 process of radio engineering. The Kurz-Kasch® Capacity Connector. This device eliminates approximately 90% of the interconnection. This device eliminates approximately 90% of the interconnection.

Tyramen Vernier Drum Dial

An answer to the demand for better appearance plus superior performance. Gives both direct and vernier tunning. Can be used with any standard condensers. Beautiful essosy panel plate furnished. Distinct silver etched graduations. Perfect concentricity of drums and vernier tuning. Can be used for second audio stage. This is assured by use of ready drilled and engraved panel and subpanel and by use of a marvelous new process of radio engineering. The Kurz-Kasch® Capacity Connector. This device eliminates approximately 90% of the interconnection.

Tyramen Shielded Socket


Tyrman Audio Transformers

Unique in design. Large, heavy core and amplify uniformly on the lowest audible frequencies. Perfect tones beyond the limits heretofore expected. Types 3-50 and 3-51 especially for use with UX-112 and UX-117. Ship. wt., 3 lbs. The amateur builder will find this transformer set invaluable.

Tyrman Radio Frequency Transformer

A unit of a high standard of excellence and quality. Guaranteed to function to within a fraction of a kilocycle. Terminals accommodate Kurz-Kasch® Capacity Connector. Encased in molded bakelite. Shipping wt., 1 lb.
The new Hammarlund-Roberts Hi-Q 6 tube receiver is the result of many new refinements in six tube receivers. It incorporates many of the new refinements which have not been introduced herefore.

Three stages of radio frequency amplification are used giving a very highly amplified signal to the detector coils. The low input design of the Auto-Couple coils increases the efficiency of the set to a remarkable degree. The separate stages are individually shielded with Hammarlund Aluminum Shields, preventing pick up of the coils and wiring, and completely eliminating inter-stage coupling with its attendant oscillations. Thus the greatest cause of hum in tuning is over eliminated. However, selectivity is not so great as to cause distortion. The circuit was designed so that the useful odd harmonics are amplified so that constant coupling is maintained at all times in the r.f. amplifiers. Thus, being neutralized efficiently at one point, the volume is therefore proportional to the strength of the signal, not to its wavelength.

A Superior Audio System

To insure the most perfect reproduction attainable, Samson Symphonic transformers are used in the audio stages. Proton 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 life-like 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 stage coupling with its attendant oscillations 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 at the factory and it is only necessary for the builder to assemble and wire the set.

The Super-Hilco Dyne Kit

Essential Kit

Net $11.40

The Super-Hilco Dyne Receiver—a 7 tube set superior to any different from the usual Super Hlohne type can be constructed from this kit. This receiver appears in the November Citizen's Radio Call Books. A very selective, coast to coast reception, no distortion volume—no squeaks or howls. Uses loop or outside antenna, dry or storage battery tubes. Complete transformers, filter coupler, oscillator coupler, antenna coupler and 9 fixed condensers necessary in the circuit. Shipping weight, 1.20 lbs.

383635—List, $20.00. Net $11.40

383636—FLYW Kit, same as above but includes short wave coupler and switch for tuning from 15 to 600 meters. List, $25.00. Net $14.25

Hammarlund-Roberts Hi-Q 6 Tube Shielded $58.25 Net

The only tools needed are a screw driver, pliers and a soldering iron. No difficulties will be encountered by the amateur set builder in duplication; the results obtained in the laboratory.

The set is very neat looking with its well balanced Miatura Panel and the Hammarlund Drum Dial. The insides 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 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. @ $0.00, $15.00; 4 Hammarlund-—No.005 Midline Condensers @ $5.50, $22.00; 4 Hammarlund Hi-Q Six Auto Coupler coils (H6A1) $12.00; 4 Hammerlund Hi-Q6 B.F. Choke coils @ $2.00, $8.00; 1 Hammarlund Hi-Q6 Drum Dial. $4.00; 1 Sangaamo .051 mf. Fix. cond., $1.00; 1 Sangaamo-Q9025 mf. fix. cond. with clips, 50e; 1 Carter IR-6 imx. 6 gum. 6 ohm. $1.00; 1 Carter Imp. Best. 5w. with knob, 75e; 1 Durham metalized Res. 2 mm. 50e; 3 Hammarlund 0.0005 mf. var. cond., each $1.25; 2 Amplifiers No. 1-A @ $1.10, $2.20; 1 Amplifier No. 112, $1.10; 6 dry Universal Sockets @ 50e; 2.40; 3 Enamel covered Binding posts @ 15c, 45e; 1 Van Doorn steel chasis, shield, shafts, wires, screws, nuts, etc. $15.50

38342—Complete set of parts. List Price, $99.40. NET $58.25

Shipping weight, 20 lbs.

Helio Transformers

M. F. Transformer Replacement Kit

A set of four air core transformers accurately matched for a frequency of 45 K. C. — 5,000 meters. All transformers have the same peak frequency. They will materially improve the tone quality of any superheterodyne receiver. Kit contains 4-100000 micro farads and 4-000005 mf. fixed condensers.

383537—List, $15.00. NET $8.55

Helio Oscillator Coupler

Designed as a replacement unit for all Superheterodyne type receivers. Will operate efficiently from 120 to 755 meters. Fitted with ".0005 mf. variable condenser.

383638—List Price, $3.00. Net $1.71

Short Wave Oscillator Coupler

An extremely high efficient short wave set. Will operate efficiently from 15 to 575 meters ranges.

383639—List, $3.00. Net $1.71
New Karas Two-Dial Equamatic

**$56.99 Net**

As Specified in Citizens Radio Call Book

Completely balanced and perfectly neutralized, insuring ease of tuning and simplified control. Equal efficiency over entire broadcast wave band. All of the superb tone quality and great volume of the 3-tube, 5-tube Equamatic. Complete neutralization makes tuning easy and gives a power and richness tone.

The variable primaries are set so that energy transfer to secondary is constant at maximum power above the oscillation point. Two condensers tune with one dial with no back-lash. Micrometric dials allow tuning to maximum just below the oscillation point. The new Karas condensers and tone filter production perfect. No distortion is possible unless used with poor low-frequency.

Can be readily built and operated by the most inexperienced fan by following the simple instructions included with kit.

**New Karas Transformer**

Marvelous reception secured with the new Karas Type 28 Audio Frequency Transformer. Undistorted amplification of the low notes as well as the great vital harmonics and rich overtones that constitute perfect musical sounds. Complete shielding 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.

**New Output Filter**

A fitting companion to the new audio transformer. Not only neutralizing the 0-to-1 volt difference from entering the loudspeaker but greatly improves the quality of reproduction. Superb tone quality and great volume of the new Karas Type 28 Audio Frequency Transformer. To be used with the new Karas Output Filter, $8.00. NET

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<thead>
<tr>
<th>Part Description</th>
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<tr>
<td>New Karas Transformer</td>
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<td>$56.99</td>
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<tr>
<td>Karas Sub-Panel Brackets</td>
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<tr>
<td>Karas Retard Cells for old style Equamatic set</td>
<td>$5.96</td>
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<tr>
<td>Karas Orthometric Condensers</td>
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<tr>
<td>Karas Micrometric Dial</td>
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<tr>
<td>Karas Harmonic Audio Frequency Transformers</td>
<td>$5.00</td>
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</table>

**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 uniform proportional to strength of station—net wave energy. 3B1831—Per set of 3 matched units, Shipping weight 1 lb. 7.06 NET

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**New Output Filter**

A fitting companion to the new audio transformer. Not only neutralizing the 0-to-1 volt difference from entering the loudspeaker but greatly improves the quality of reproduction. Superb tone quality and great volume of the new Karas Type 28 Audio Frequency Transformer. To be used with the new Karas Output Filter, $8.00. NET

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<tr>
<td>Karas Harmonic Audio Frequency Transformers</td>
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**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 uniform proportional to strength of station—net wave energy. 3B1831—Per set of 3 matched units, Shipping weight 1 lb. 7.06 NET

**List of Parts**

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</tbody>
</table>

**New Karas Transformer**

Marvelous reception secured with the new Karas Type 28 Audio Frequency Transformer. Undistorted amplification of the low notes as well as the great vital harmonics and rich overtones that constitute perfect musical sounds. Complete shielding 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.

**New Output Filter**

A fitting companion to the new audio transformer. Not only neutralizing the 0-to-1 volt difference from entering the loudspeaker but greatly improves the quality of reproduction. Superb tone quality and great volume of the new Karas Type 28 Audio Frequency Transformer. To be used with the new Karas Output Filter, $8.00. NET

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**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 uniform proportional to strength of station—net wave energy. 3B1831—Per set of 3 matched units, Shipping weight 1 lb. 7.06 NET

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</tbody>
</table>
The Bremer-Tully Power-Six offers all of the latest improvements in radio. It includes the additional features now possible through improvements in tube, resistance, and other parts.

3 stages of radio frequency amplification are used which greatly increase the range and selectivity of the set. Due to the use of the Torostyle coils and new style balancing condensers, the set is much easier to balance and to operate.

All resistors 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 trimmer is used to facilitate balancing. Long distant operation may be obtained with only a short indoor aerial, and 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 Lc-I7 Condensers @ $5.50,
- 19.50; 3 BT inc. condensers @ $1.50, $4.50; 5 BT inc. condensers @ $2.75; 1 B-T 500.000 ohm resis., $2.00;
- 3 1500 ohm resisters @ $5.00; $1.50; 1 set coil charts and diagrams, $1.25; 1 B-T Euphonic Trans., 7-1/4, 1-1/5; $3.90.

B-T Counterphase Power-Six

This kit is made up at the B-T factory and consists of the B-T essentials used in the kit. All parts are furnished:
- 1 TA Torostyle Transformer, $1.00; 3 TC Torostyle Transformers @ $4.00, $12.00; 2 Lc-I7 Condensers @ $5.50,
- 19.50; 3 BT inc. condensers @ $1.50, $4.50; 5 BT inc. condensers @ $2.75; 1 B-T 500.000 ohm Variable Resistor, $2.00;
- 3 1500 ohm Resistor @ $5.00; $1.50; 1 B-T Multif. Panel. Test Panel, and Eng. Formulas, $6.00; 1 Wood Baseboard 5/4x231/2 inches, $1.25; 1 B-T Euphonic Trans. 7-1/4, 1-1/5; $3.90.

B-T Laboratory Type Condensers

- Low loss style of superior mechanical strength. Will stand all the rigors of radio wave frequency currents from entering the audio circuits. Bank winning for better results.
- Fast tuning under all conditions for balanced tone.
- Critical angles, lessen interstate coupling and by the use of electronic style field Pigtail rotor condenser, makes a very sensitive and selective r.f. amplifier. Frame moulded bakelite, 7 binding posts arranged for simplified wiring. For use with 364236-Type 410, ratio 4.7-1.
- Price, $5.75. NET

B-T Straightline Frequency Condensers

A B-T achievement. Eliminates crowding of stations and improves the tone quality. For use in all electronic circuits.
- Fast tuning under all conditions for balanced tone.
- Critical angles, lessen interstate coupling and by the use of electronic style field Pigtail rotor condenser, makes a very sensitive and selective r.f. amplifier. Frame moulded bakelite, 7 binding posts arranged for simplified wiring. For use with 364236-Type 410, ratio 4.7-1.
- Price, $5.75. NET

B-T Lifetime Multiple Condensers

For use in all electronic circuits. Combines attractive appearance with the highest degree of efficiency. Eliminates body vibration. These condensers provide positive control with smooth, easy flowing action. Works with either r.f. or grid leak type. Eliminates body vibration. These condensers provide positive control with smooth, easy flowing action. Works with either r.f. or grid leak type. Eliminates body vibration. These condensers provide positive control with smooth, easy flowing action. Works with either r.f. or grid leak type. Eliminates body vibration. These condensers provide positive control with smooth, easy flowing action. Works with either r.f. or grid leak type.
- Price, $5.75. NET

B-T Choke Coil

B-B R. F. Choke Coil

Increases efficiency of circuits by preventing radio frequency currents from entering the audio circuits. Bank winning for better results.
- Price, $5.75. NET

Euphonie Transformer

B-T Transformer

Straight line capacity gives highly accurate and permanent adjustment from 1.5 cm. to 5 cm. Indicator shows relative adjustment.
- Price, $5.75. NET

B-T Micro-Mike Condenser

- Price, $5.50. NET
The New Victoreen Super 8

Great Volume
Hair-Sharp
Selectivity

$68.96
Net

As Specified in
Citizens Radio
Call Book

LIST OF PARTS

1 Victoreen Master Control with 2 .0005 mf. Var. Cond., $15.50; 1 Victoreen Inter. Trains. No. 170, $25.80; 1 Victoreen Audio Control Unit. $4.50; 1 Victoreen 6 ohm Rheo., $1.20; 2 Victoreen 400 ohm Pot., $1.50; 1 Victoreen No. 150 Antenna Coupler, $3.50; 2 Victoreen Audio Unit type 112, $22.00; 1 Frost No. 500 Sockets @ 48c, $3.20; 2 12x25x34 inch Lipline Panel, dec., and dr., $16.00; 1 Jwessel 0.6 Ohm, $7.00; 1 Wooden Huskboard, 95x25.5 in., $1.25; 1 Formica Strip, 5x5.5x1 in., 25c; 1 Formica Strip, 5x5.5x1 in., 24c; 1 Carter Filament Switch, 30c; 1 Carter No. 6 Jack Switch, $1.25; 10 Ely ENG. BIND. Posts, $1.50; 1 Jones Type B MF Multiplex, $11.25; 1 National Type B Dial, $2.60; 50 ft. tinned copper wire, 67c; 1 Rexer Slide, 25c; 1 Miscellaneous Nuts, Lug, Screws, etc., 50c; 1 Blueprints, $1.00; 1 Victoreen Audio Unit type 112, $22.00; 2 Frost No. 500 Sockets, $1.50.

Victoreen Transformers

Very sharp resonance p.p.m. 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 booster. Each transformer tuned to 1/2 of 1 per cent. No matching or adjustment is necessary. Works with any tube. The New Victoreen Super 8 uses the new Improved Victoreen 112 transformer, 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, or to use the antenna and grid oscillator. Very sharp resonance point--no matching of tubes, no adjustment. Works with any tube.

Victoreen Manganese Rheostats and Potentiometers

Wound with genuine Manganese Resistance wire. Many more turns used than usual, giving finer adjustment. Smooth running and noiseless. Resistance remains constant, regardless of temperature.

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 final feature. A laboratory achievement of precision, without a peer.

New National Charger

An exceedingly compact and extremely efficient charger for 3 volt batteries. Two types: One using two Raytheon Cartridges and having a capacity of both 2½ and 5 amperes; the other using one Raytheon Cartridge and delivering 2½ amperes. Absolutely silent in operation. Gives tapering charge. Supplied without Raytheon Cartridges.

THE BARAWIK CO., CHICAGO, U. S. A.
Official Browning-Drake Receiver

As Specified by Glenn H. Browning and Dr. F. H. Drake

Featured by Popular Radio

$37.35
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 in the basis of this kit. It is noted for its sensitiveness, selectivity, and resistances for coupling. The first and third stages are using a combination of the famous National Impedance Transformers which have the advantage of amplifying all frequencies 8 to 14 low impedance coupled, the second resistance coupled. This amplifier has the advantage of reproducing every note in the musical scale with extreme fidelity. The amplification per stage 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 which has the advantage of reproducing every note in the musical scale with extreme fidelity. The amplification per stage is due to the design of the transformers, the bunched primary tertiary coil being very closely coupled to the tuned coil or secondary.

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 are included.

LIST OF PARTS

1 Browning-Drake Kit (coils, condensers, dials, and instructions). $25.00; 1 Browning-Drake Foundation Unit consists of: 7x2½ in. Mica Panels drilled and engraved, with sockets, resistor clips, soldering lugs, machine screws, nuts, bolts and wire, $15.00; 1 National Impedacformer (1st stage). $5.50; 1 National Impedacformer (3rd stage only). $5.50; 1 Tone Condenser, special B-D type, 60c; 3 Tobe .001 Tinklebox, fixing cond. @ 40c, $1.20; 1 .00007 Tinklebox fixing cond., 40c; 1 Yaxley Filament Switch No. 1691 (gold), 50c; 1 Yaxley .03 ohm Rheo. No. 130 K-BD (gold). $1.10; 8 Eby Binding posts, $1.20; 1 Precise Uidgem. .0001 var. cond. $1.75; 1 Browning-Drake 15 ohm Resists., 50c; 1 Durham .25 meg resistances, 50c; 1 Durham 8 meg resistances, 50c; 1 Browning-Drake balancing device, $1.00; 1 Ameritc No. 5A, $1.10; 1 Constructional booklet, 25c; 2 Yaxley Pup Jacks @ 15c, 30c.

B3371—As specified above. List price, $65.05, NET. $37.35
B3372—Same as above with National Tone Filter, No Jacks, List, $70.75. NET. $42.25
Shipping weight, 20 lbs.

National Impedacformers

For perfect reproduction, the method of coupling by Impedance transformers 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 due to the design of the transformers, the bunched primary tertiary coil being very closely coupled to the tuned coil or secondary.

Type "B"

This type Impedacformer embodies a 100 henry choke coil, a .1 m. f. condenser in a metal case, and a .1 m. f. condenser in a metal case. This unit is all mocked out in the laboratory so that the constructor can use it with confidence.

B34169—1st Stage with Choke.
B34170—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. A .1 m. f. condenser is used in the circuit. This unit is all mocked out in the laboratory so that the constructor can use it with confidence.

B34171—1st stage with R. F. choke.
B34172—2nd or 3rd stage without choke.
List, $4.00, NET, EACH. $2.40

National Tone Filter

Designed for use with power tubes to prevent a high plate voltage from damping the loud speaker. Contains an Impedance of the correct value and a Tone Filter condenser. No D. C. can reach the speaker. Chattering, distortion and harmonics are therefore prevented. Attractive metal case with tip jack connections. 5 foot phone cord included. Shipping weight, 2½ lbs.

B34173—List price, $8.00, NET. $4.00

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., 8 lbs.

B34174—List, $13.00. NET. $8.89

Browning-Drake Kit of Coils and Condensers

Kit consists of: one Antenna System Unit; one Browning-Drake Space-wound Primary Antenna Coil mounted on a .0055 var. Condenser with a National Velvet Vernier Illuminated dial; one Regenerator System; one Browning-Drake Transformer with slot wound primary; one Space-wound secondary; mounted on a .00055 var. Variable Condenser with the National Velvet Vernier Illuminated dial. Specified for the Official Browning-Drake Circuit.

B34183—List, $15.00. NET. $15.00

Browning-Drake Foundation Unit

List price, $63.05, NET. $42.25
Shipping weight, 20 lbs.

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 velvet touch. 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 nickeled. Fits any ¼ inch shaft. Shipping wt., 8 ounces.

B34146—Clockwise. List, $2.50, NET, EACH. $1.50
B34147—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 illuminates the scale from the rear. Shipping weight, 8 ozs.

B34177—Clockwise. List, $3.00, NET, EACH. $1.80
B34178—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, B. F. circuit, well-known T. C., where once stage tuned and neutralized R. F. provides a regenerative detector. Variable coupling is provided between the R. F. and detector 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 re- peatability of the pitch is 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 11/2 x 24 inches; depth 10 inches.

1 Samson T. C. Panel Kit (cont. hdwre.), $13.50; 6 Benjamins CX Cushion Sockets @ $5.00; 1 Samson Type 41 Antenna Coupler, $2.90; 1 Samson Type 31 Double Rotor Coupler, $5.00; 2 Samson Type 67, $50 mnf Variable Condensers @ $5.50, $11.00; 2 Samson Type 85 Frequency Chokes @ $2.00, $4.00; 3 Samson Type 3 Audio Frequency Chokes @ $3.25, $9.75; 1 Samson Type 61 Neutralizing Condenser, $5.50, $11.00; 3 Samson Type B Flat Impedances @ $4.25, $13.50; 1 Samson Type G Grid Impedance, $4.50; 1 Samson Type O Output Impedance, $5.00; 1 Samson Type "Universal" Vernier Dials @ $3.50, $7.00; 1 Sangamo .0005 mf Fixed Condenser, 25c; 1 pair Taxley Pup Sacks, 50c; 1 pair Taxley Filament Switch, 50c; 1 pair Taxley Engraved Binding Posts, $1.65; 1 COIL-500.000 ohm Variable Resistance, $2.00; 3 Type 3 Elky Equalizers with Mounting @ $5.00; 30 feet Silver Engraved Binding Posts, $6.45; 100-500 meters with .0005 mf. condenser. Shipping weight, 1 lb.

Samson Impedances and Transformers

Helically wound, gives superior results in all circuits. Especially recommended for their wonderful tone quality by all leading engineers. Shipping weight, 1/4 lb.

- 384364—Standard Transformer (Type HW-2A), Ratio 3-1, List, $4.50, NET $3.19
- 384322—Standard Transformer (Type HW-3A), Ratio 3-1, List, $5.50, NET $4.45
- 384271—Standard Transformer (Type HW-3A-J), Ratio 3-1, List, $5.50, NET $4.45

Samson Audio Frequency Chokes

Helically wound radio frequency choke coils, Very efficient in keeping R. F. current from going astray. Shipping weight, 3 oz.

- 384369—10 Henriety, List, $2.25, NET $1.79
- 384360—250 Millihenry, List, $2.25, NET $1.79
- 384331—85 Millihenry, List, $2.00, NET $1.46

Samson R. F. Choke Coils

Helically wound radio frequency choke coils, Very efficient in keeping R. F. current from going astray. Shipping weight, 3 oz.

- 384360—250 Millihenry, List, $2.25, NET $1.79
- 384331—85 Millihenry, List, $2.00, NET $1.46

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.

- 384333—List, 25c, NET $1.30
- 384362—50 Henriety (for power supply use), List, $2.25, NET $1.79

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 mf. condenser. Shipping weight, 1/2 lb.

- 384330—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 backlash. Will wear indefinitely. For 3/4 inch shaft. For years past one of the most popular vernier dials in the market. Always fitted and ready for service, it insures the utmost in fine tuning and control.

- 384366—List, $2.50, NET $1.63

Samson Neutralizing Condenser

For neutralization of radio frequency amplifiers. Minimum capacity .00005 mf. Maximum capacity .00005 mf. For use with 1/8 inch spacing. Shipping weight, 1/4 lb.

- 384332—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-centered,
fixed and sealed condensers. Distinctly modern; new
in design; simple to control. So few controls that anyone can
Dunes its famous Reñler 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 gives full
signal with all harmonic extraneous
noise bared. Incoming signal
receives widespread uniform
amplitude over the usual amount of
range. Built to advertise simple and easy to control. Without
shiftting

The Thompson Super Seven is a highly efficient
Super Heterodyne receiver that will satisfy the
most critical for both distance and sound quality.
It was designed by the well-known manufacturers 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 a power of 0.10 or
0.20
The famous Henderson transformers, noted  fer
their robust qualities are used throughout.

Due to the uniform design all leads are short and
the set is as simple and easy to build. This is
one of best medium priced, high quality, easy to
build, supers on the market.

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<td>1 Formica 22x5x1 In Dr. and Eng Panel</td>
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<td>1 Formica 22x3x1 ln Dr. and Eng Panel</td>
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<tr>
<td>1 Magnaformer Intermediate Trans.</td>
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<tr>
<td>1 Magnaformer Intermediate Trans.</td>
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<tr>
<td>1 Oscilator Coupler</td>
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<td>1 Silver-30 Transformer</td>
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<td>1 Silver-Marshall 30 Dial M. Condenser</td>
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<td>1 Silver-Marshall 30 Midget Condenser</td>
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<td>1 Amperite No. 112 5 megehm Grid leak</td>
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<tr>
<td>1 Lynch 3 megehm Grid leak</td>
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<tr>
<td>1 Lynch Mounting</td>
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<td>1 Tobe .0025 Condenser</td>
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<tr>
<td>1 Tobe .0005 Condenser</td>
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<tr>
<td>1 Micarta 9x20 Subpanel Dr. and Eng.</td>
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<td>1 Peachey 21 Wires Con. 60.30</td>
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<td>1 Main Circuit and Eng. Circuit</td>
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<td>1 Refrigerator Transformer</td>
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<td>1 Package Silver Radio Solder, 25c</td>
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<tr>
<td>1 Miscellaneous Lugs, Screws, Nuts, etc.</td>
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Shiping weight, 20 lbs. $47.25

Ellis "D" Coils
Air insulation and spaced winding.
Air supereior because they have:

- Interstage coupling:
- Matteless tone; freedom from pick-up:
- Unexcelled selectivity;

Low automatic frequency response.

Supports all frequency bands.

Packed in kits of 3. 4 or 5 coils, as
ordered, at a list price of $2.50 per

<table>
<thead>
<tr>
<th>Part Description</th>
<th>List Price</th>
<th>EACH</th>
<th>NET</th>
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</thead>
<tbody>
<tr>
<td>1 Tobe .0025 Condenser</td>
<td>$0.50</td>
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<tr>
<td>1 Tobe .0005 Condenser</td>
<td>$0.50</td>
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Shipping weight, 20 lbs. $47.25
The Best—Lincoln Super Receiver

As Specified in 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. It is all wired, ready to put on the panel only. Only a few additional parts are necessary to be connected in it. Very easy to build by following instructions in kit. No special tools needed. Very easy to build, simple to tune, cost is not prohibitive.

List of Parts
1 Eight-in-Line Unit. $19.00; 1 Ligeole Trifled and Engraved Front Panel. $3.50; 2 DeJur .0005 mf. Condensers @ $3.00; 2 Carter Filament Switch, 65c; 1 Hammersund Midget Condenser. $1.80; 2 Thordarson R-200 Audio Transformers, $16.50; 1 Thordarson R-76 Output Transformer, $6.90; 1 Hammond Midget Condenser. $1.80; 1 McArt 2214, Inch Dr and Easr. Panel, $3.00; 1 2x1x2.4 Panel Wood Baseboard, 85c; 1 pkg. Kester, Radio Solder, 5c: 1 pkg. Jernex, Radio Wire, $1.80; 1 2x9x9.5 Terminal Strip (3 hole), 25c; 1 2x3x3.9x4 Terminal Strip (4 hole), 25c: 1 3 metalcon Grid leak—Tote, 50c; 2 1.12 Amperes @ $3.16. $5.32: 1 Set Blueprints and Instructions, $1.40; 1 Miscellaneous, lugs, nuts, screws, etc., 50c.

Price, $73.50-

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 squeals or howls. High 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 squeals or howls.

3B123—Nine Ensemble-5 Transformers and Coupler, List, $42.00. NET 3B123—Eight Ensemble-4 Transformers and Coupler, List, $30.00. NET

Bodine Twin-Eight

Six Tube Receiver.

$44.95 Net

Using Bodine Twin-Eight Cells, a gang condenser and phasatrols, combines the desirable features of superheterodyne and tuned f. a. s. Knife-edge selectivity. Phenomenal distance getting ability.

Operates on either loop or outside antenna, cutting through "Noise" 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.

36c; 1 Coll Belden Colorubber Wire (Natural), 50c; 2 4 inch Black Dials (Kurt-Rasch) @ 80c. $1.70; 1 Belden 5-Wire Cable, 75c; 6 Binding Posts, Rhy, 90c; 1 Miscellaneous Screws, Nuts, Lugs or Washers, 60c. 1 Blueprints and Instructions, $1.25.

3836—Complete set of parts, List, $74.40. NET

Price, $44.95

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 vogue for portable sets now and the dealer will find a ready market for all he constructs.

LIST OF PARTS
1 Panel drilled, and wired, $6.00.
2 Panel, drilled, $1.00; 2 Selectone Tr. R400, $1.80; 1 Selectone Tr. in a, $1.10; 1 Thor Coupler 3D-1, $4.00; 1 Thorlaron A. P., $2.50; 2 Remler Cond. .0005, $16.00; 1 Hammarlund MC-S, $1.80; 1 Jewell Valometer 0-5 V, $7.00; 1 Carter Rheo, M-30, $0.90; 1 Sangamo Cond. .0025, $0.90; 1 Sangamo Cond. .0005, 40¢; 1 Sangamo Cond. .0006, 50¢; 2 Tobe Cond. .005, $1.50; 1 Grid Leak, $1.05; 1 Blueprint, $2.00.

Shipping wt., 20 lbs.

$52.06

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 dial. The eight tube circuit, using St. James transformers in the radio frequency stages and Silver Mar- shall in the audio end, is very efficient and will give extreme selectivity combined.

St. James Transformers

The St. James transformers are sealed 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. Their true form inductances are loss free, and of very small size, preventing interference coupling and outside pick-up. They operate on 240 kilocycles, giving pure r.f. amplification and a minimum of repeats. Matched interstage coupling and outside pick-up. They operate on 240 kilocycles, giving pure r.f. amplification and a minimum of repeats. Matched interstage coupling and outside pick-up.

LIST OF PARTS
1 Panel of 5 Madison-Moore Units, $55.00; 1 Karas .0005 mf. var. cond., $7.00; 1 Karas .0005 mf var. cond., $6.50; 2 Marco Illuminated Dials at $3.50, $7.00; 2 Karas Harmonic Trasn. @ $3.00, $14.00; 1 Frost 10 ohm Rheo, 75¢; 1 Frost 20 ohm Rheo, 75¢; 1 Frost Filament switch, 30¢; 4 type 4 Ellay Equalizers with mgt. $1.00, 1 Ellay Equalizer with mgt. $1.00, 1 Ellay Equalizer with mgt. $1.00, 1 Formica Terminal strip, 3 hole, 25¢; 2 Formica Terminal strip, 2 hole, 40¢; 1 100 x 35 x 31 woolen base board, $1.00; 1 Set Blueprints and Instruction book, $1.50; 1 Miscellaneous Lugs, Screws, etc., 50¢; 60 ft. Tinned Copper Wire, 80¢.

Shipping wt., 25 lbs.

New Madison-Moore A.C. Transformers

When announced in the radio magazines we will have in stock the new Madison-Moore A.C. Transformers of the 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 Formica Drilled and Engraved Panel, List, $11.50.
1 Formica Terminal strip, 3 hole, 25¢; 2 Formica Terminal strip, 2 hole, 40¢; 1 100 x 35 x 31 woolen base board, $1.00; 1 Set Blueprints and Instructions, $1.50; 1 Miscellaneous Lugs, Screws, etc., 50¢; 60 ft. Tinned Copper Wire, 80¢.

Shipping wt., 25 lbs.

$68.63

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 its 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 transformers assures a quality of reproduction seldom attained. The balancing is complete. No squeaks or squeals. The best you have ever used.

$69.90

List of Parts

4 Hammarlund Midline .00275 mf var. cond. @ $5.10, $20.40; 1 Hammarlund Double Drum Dial, $6.00; 1 Set Acme-Precision double solenoid coil, 4 coils type 4-L, $12.50; 3 Samson 250 mH R. F. chokes @ $2.25, $6.75; 1 Samson 55 mH R. F. choke, $2.00; 3 Polycomb Condensers .02 mf, $1.50, $4.50; 1 Polycomb Condenser .00047 mf, 35c; 3 Polycomb Condensers .00075 mf, 40c; 1 Yaxley comb, switch and Rheo, 6 ohm, $1.75; 4 Carter 4 ohm fix, resistance type 450, $1.00; 2 Carter Imp. plugs @ 15c, 30c; 1 Carter Tip Jack No. 19, 16c; 1 Carter Tip Jack No. 10 with insulating bushings, 15c; 1 Carter Imp. Nameplate, 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 Metal-Perite Resistor, No. 510, 510 ohms, $1.50; 1 Vishay I.E.C. 1% B.G.S. 25 ohm, $1.80; 1 Belden Colorhubber wire, 40c; 1 Aluminum chassis, $16.00; 1 Miscellaneous Lux, screws, nuts, etc., 65c; 1 Set Blueprints and instructions, $1.00.

3B346—Complete set of parts. List price, $100.70, NET. Shipping weight, 30 lbs.

$37.90

The Quadraphase Five

As Specified by G. M. Best in Radio with Phasatrols and Remier Drum Dial

Another excellent circuit by Mr. G. M. Best using the familiar Phasatrols for complete neutralization. The set absolutely will not oscillate when properly adjusted. The efficient Quadraformer 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 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.

$53.95

The Model B

$27.60

PIERCE
6-Tube Receiver

AIRO

Embraces the latest principles of design to fulfill the most exacting requirements of the set builder. The audio section is a combination of resistance coupling designed for power and music quality. Single control tuning by drum dial, with brass compensated condenser ganged in line and permanently calibrated. The chassis is all aluminum, the panel is bronze with new process wood finish.

Supplied either in a cabinet as shown or as a chassis without cabinet. Fits any standard 7x18 inch console or cabinet.
Many who build their own sets will welcome this inexpensive T.R.F. Set. All parts are of good quality and they will combine to make a very high grade receiver. The condensers have an unusually wide tuning range so that selectivity and high grade reproduction can be built by anyone in a few hours' time. Full instructions included with kit.

List of Parts
1 Panel 7x2.5x1 Drilled and Engraved. $5.50; 1 Neutrodyne Kit, $17.50; 1 A. F. 3¾ to 1 Transformer, $3.50; 1 A.F. 6 to 1 Transformer, $4.00; 1 Box Screw Assortment, $.50. 1 Round Plate. 2 Hole, 25c; 1 Battery Switch. $1.00; 1 Battery Switch Parts. List, $2.75. Net 1 Audio Transformer. $3.00; 1 No. 112 Amperite. $1.10; 2 Neutrodons. Panel Drilled, $1.50; 1 No. 143 Amperite. $2.20; 1 No. 143 Amperite. $2.20; 3 Round Plate, 50c; 1 30 ohm Rheostat. 45c; 1 6 ohm Rheostat. 45c. 5 DeJur Capacitors. $1.25; 1 Carter Midget 10 ohm Resistor. $1.00; 1 Battery Switch, Parts. List, $2.75. Net 1 Audio Transformer. $3.00; 1 No. 112 Amperite. $1.10; 2 Neutrodons. Panel Drilled, $1.50; 1 No. 143 Amperite. $2.20; 1 No. 143 Amperite. $2.20; 1 Carter Midget 10 ohm Resistor. $1.00; 1 Battery Switch, Parts. List, $2.75. Net 1 Audio Transformer. $3.00; 1 No. 112 Amperite. $1.10; 2 Neutrodons. Panel Drilled, $1.50; 1 No. 143 Amperite. $2.20; 1 No. 143 Amperite. $2.20; 1 Carter Midget 10 ohm Resistor. $1.00; 1 Battery Switch, Parts. List, $2.75. Net 1 Audio Transformer. $3.00; 1 No. 112 Amperite. $1.10; 2 Neutrodons. Panel Drilled, $1.50; 1 No. 143 Amperite. $2.20; 1 No. 143 Amperite. $2.20; 1 Carter Midget 10 ohm Resistor. $1.00; 1 Battery Switch, Parts. List, $2.75. Net 1 Audio Transformer. $3.00; 1 No. 112 Amperite. $1.10; 2 Neutrodons. Panel Drilled, $1.50; 1 No. 143 Amperite. $2.20; 1 No. 143 Amperite. $2.20; 1 Carter Midget 10 ohm Resistor. $1.00; 1 Battery Switch, Parts. List, $2.75. Net 1 Audio Transformer. $3.00; 1 No. 112 Amperite. $1.10; 2 Neutrodons. Panel Drilled, $1.50; 1 No. 143 Amperite. $2.20; 1 No. 143 Amperite. $2.20; 1 Carter Midget 10 ohm Resistor. $1.00; 1 Battery Switch, Parts. List, $2.75. Net 1 Audio Transformer. $3.00; 1 No. 112 Amperite. $1.10; 2 Neutrodons. Panel Drilled, $1.50; 1 No. 143 Amperite. $2.20; 1 No. 143 Amperite. $2.20; 1 Carter Midget 10 ohm Resistor. $1.00; 1 Battery Switch, Parts. List, $2.75. Net 1 Audio Transformer. $3.00; 1 No. 112 Amperite. $1.10; 2 Neutrodons. Panel Drilled, $1.50; 1 No. 143 Amperite. $2.20; 1 No. 143 Amperite. $2.20; 1 Carter Midget 10 ohm Resistor. $1.00; 1 Battery Switch, Parts. List, $2.75. Net 1 Audio Transformer. $3.00; 1 No. 112 Amperite. $1.10; 2 Neutrodons. Panel Drilled, $1.50; 1 No. 143 Amperite. $2.20; 1 No. 143 Amperite. $2.20; 1 Carter Midget 10 ohm Resistor. $1.00; 1 Battery Switch, Parts. List, $2.75. Net 1 Audio Transformer. $3.00; 1 No. 112 Amperite. $1.10; 2 Neutrodons. Panel Drilled, $1.50; 1 No. 143 Amperite. $2.20; 1 No. 143 Amperite. $2.20; 1 Carter Midget 10 ohm Resistor. $1.00; 1 Battery Switch, Parts. List, $2.75. Net 1 Audio Transformer. $3.00; 1 No. 112 Amperite. $1.10; 2 Neutrodons. Panel Drilled, $1.50; 1 No. 143 Amperite. $2.20; 1 No. 143 Amperite. $2.20; 1 Carter Midget 10 ohm Resistor. $1.00; 1 Battery Switch, Parts. List, $2.75. Net 1 Audio Transformer. $3.00; 1 No. 112 Amperite. $1.10; 2 Neutrodons. Panel Drilled, $1.50; 1 No. 143 Amperite. $2.20; 1 No. 143 Amperite. $2.20; 1 Carter Midget 10 ohm Resistor. $1.00; 1 Battery Switch, Parts. List, $2.75. Net 1 Audio Transformer. $3.00; 1 No. 112 Amperite. $1.10; 2 Neutrodons. Panel Drilled, $1.50; 1 No. 143 Amper.
6 Tube Single Control Kit

Here is the ideal kit for the man 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 simple 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 radio transformer coupling amplification that builds 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 gang condenser of modified line type. Accurate space wound coils, adequate to one-half of one per cent. Dual midget 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.

The 7 tube sets are now the most popular development on the market. This kit is designed 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 ELR triple, .00033 condenser, 1 Illuminated dial, 3 Space wound R. F. coils, 1 grid leak 2 meg., 1 Single mounting, 1 .1 resistor, 1 Variable resistance 200,000 ohm, 1200,000 ohm resistance with switch, 1 Cardwell dual midget condenser, 7 Bakelite UX sockets, 3. A 3 Binding post strip with two posts, 1 Binding post strip with eight posts, 1 K200 transformer, 1 Pair Knight push pull transformers, 2 milk bottles, 14 cells, 14% volt "C" battery, two brackets, screws, wire, lugs, miscellaneous. Nothing else to buy except condenser .00025, 1 grid leak 2 meg., 1 Single mounting, 1 .1 resistor, 1 Variable resistance 200,000 ohm K200 transformer, 1 Pair Knight push pull transformers. Shipping weight, 22 lbs.

LIST OF QUALITY PARTS FURNISHED

1 Bakelite 7x24 drilled panel, 1 9x23 baseboard, 1 modified ELR triple, .00033 condenser, 1 Illuminated dial, 3 Space wound R. F. coils, 1 grid leak 2 meg., 1 Single mounting, 1 .1 resistor, 1 Variable resistance 200,000 ohm, 1 Bakelite UX sockets, 3. A 3 Binding post strip with two posts, 1 Binding post strip with eight posts, 1 Knight push pull transformer, 1 pair Knight push pull transformers, 2 milk bottles, 14 cells, 14% volt "C" battery, two brackets, screws, wire, lugs, miscellaneous. Nothing else to buy except condenser .00025, 1 grid leak 2 meg., 1 Single mounting, 1 .1 resistor, 1 Variable resistance 200,000 ohm, 1 Bakelite UX sockets, 3. A 3 Binding post strip with two posts, 1 Binding post strip with eight posts, 1 Knight push pull transformer, 1 pair Knight push pull transformers. Shipping weight, 22 lbs.

7-Tube Single Illuminated Control Kit

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 to fill a room of any reasonable size.

Only high grade parts are supplied for this kit and the builder is set free from boredom of repetition at a moderate price.

BUILD AND OPERATE

LIST OF PARTS

1 7x24 drilled, bakelite panel, 1 9x23 baseboard, 1 single .00035 condenser, 1 double .00035 condenser, 2 illuminated dials, 1 midget condenser, 1 7x18 cabinet. Shipping weight, 20 lbs.

New 8-Tube Two-Dial Illuminated Control Kit

Very Powerful. Easy to Build and Operate

This basic instrument consists of two BRUNO .0005 mfd. condensers mounted on an aluminum frame, a bronze panel plate and two drums, with scale. BRUNO Unitine 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. BRUNO Unitine RF

Consists of the basic condenser frame, Model 2C, and two Bruno LOW LOSS R F transformers. This combination provides two radio frequency stages and covers a wavelength of 290 to 330 meters. BRUNO Unitine T K

Similar to Model RF except that right hand condenser buds BRUNO Triode-Circuit Tuner. BRUNO Unitine Units

These instruments are very convenient and permit the building of a set very sharply and attractive 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. An iron bracket 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. The elementary "vernier" condensers are necessary. Handsome bronze escutcheon plates included.

THE BARAWIK CO., CHICAGO, U. S. A.
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 duplication of original sound reproduction together with the 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 a 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 the 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 maintains it 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 grooves of record.

The energy thus developed is transferred, through the Pick-Up, to the radio set in the form of electrical impulses. These are amplified many times in the radio frequency amplifier. Here the small initial energy is built up and 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 the full blast of a Jazz concert. A new type of electric phonograph is now on the market which eliminates the annoying hissing sound of the needle over the record. The new type of phonograph set has an auxiliary arm, so that the regular phonograph equipment need not be disturbed. Consists of special reproducer, a volume control, plug for detector socket and connecting wires. Shipping wt., 8 lbs.

386492—List, $10.00. NET $6.00
386496—Arm for above Pick-Ups, NET 75c

The Sensitone Electric Pick-Up

One of the most sensitive and yet most rugged of this class of devices. Incorporated is a specially designed coil; a control unit to vary the amplification to suit your taste. Complete with volume control and adapter. Shipping wt., 3 lbs.

392654—With Tones Arm. Reproduces the standard phonograph tone arm. List, $10.00. NET $8.00
386564—Without Tones Arm. Reproduces the standard phonograph tone arm. List, $16.00. NET $9.60

The GRADEON

List, $17.50

$8.75

National Scratch Filter

For use with electrical phonograph pick-ups to subdue the amplification of record noise. Shipping wt., 5 lbs.

386493—List, $5.50. NET $3.30

Daven Electric Phonograph Pick-Up


38923—List, $17.50. NET $10.29

386494—List, $20.00. NET $11.76

Na-Ald Electric Pick-Up

A masterpiece of acoustical engineering. Provides an auxiliary arm, so that the regular phonograph equipment need not be disturbed. Complete with volume control and an auxiliary arm. Shipping wt., 2% lbs.

386495—List, $5.50. NET $3.30

Pacent Phonovox Electric Phonograph Reproducer

This unit, developed by Patcent Engineers, though very low in price has proven to be one of the best. It provides true tone values together with volume which will equal the expensive electric phonographs selling at several hundred dollars. Equipment consists of Reproducer, volume control, plug for detector socket and connecting wires. Shipping wt., 5 lbs.

386492—List, $5.50. NET $3.15

Bosch Recreator

Provides an auxiliary arm, so that the regular phonograph equipment need not be disturbed. Consists of special reproducer, a volume control, plug for detector socket and connecting wires. Simple instructions furnished. Anyone can install and operate it.

386494—List, $20.00. NET $11.76

For information. Shipping wt., 3 lbs.

386493—List, $10.00. NET $5.88

386495—List, $5.50. NET $3.30

386496—List, $10.00. NET $5.88

386497—List, $18.00. NET $10.29

Pacent Phonovox Reproducer

One of the most sensitive and yet most rugged of this class of devices. Incorporated is a specially designed coil; a control unit to vary the amplification to suit your taste. Complete with volume control and adapter. Shipping wt., 3 lbs.

386494—List, $17.50. NET $10.29

INSPECTION AS PER OFFER GIVEN ON PAGE 3

Foot Notes

386492—List, $10.00. NET $6.00
386496—Arm for above Pick-Ups, NET 75c
Aero-Coil Short Wave Kit

$26.65 Complete

As Specified In Citizens' Radio Call Book

The Aero Short wave kit makes the ideal receiver for the amateur. Its distance getting ability, selectivity, volume and easy control make it the leading short wave set. Used by the U. S. Government, Broadcasting Stations, University laboratories, the MacMillan Expedition, University of Michigan, Greenland Expedition, and by hundreds of leading experts and amateurs throughout the country. The coils are completely interchangeable, making possible the reception of either code or broadcast stations on any of the short wave bands. Three UX 291A Tubes are used in a feed back circuit. Sustained for tuning from 15-130 meters, but will tune up to 550 meters by adding coils INT-1 and INT-5.

LIST OF PARTS

3131059—Complete set of parts.
List Price, $46.85. NET.

$26.65

Shipping weight, 15 lbs.

Aero Short Wave Coils

This kit consists of three interchangeable coils, 15 to 130 meters each, making one 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 used, and is improved by using AERO short wave coils. Used by leading engineers and amateurs throughout the world. Uses .00014 tuning condenser, .00025 feedback condenser. Includes 3 coils and mounting base. Shipping weight, 14 lbs.

383622—No. LWT-125.
List Price, $12.50. NET.
Broader Kites.
381066—No. LWT-125, R-INT-2, Range 15-35 meters.
List, each, $4.00. NET.
381065—No. LWT-125, R-INT-3, Range 35-130 meters.
List, $3.00. NET.

$7.34

Aero Interchangeable Coils

Optional for Greater Range with Short Wave Kit.
383824—INT-4 Coils, 125-850 Meters.
386404—INT-0 Coils, 13-20.4 Meters.

List Price, each.
$4.00. NET, EACH $2.35

B-1 Short Wave Tuner

384241—Short Wave Outfit.
List Price, $5.10. NET.

$2.48

List Price, $4.00. NET.

B-T Short Wave Tuner

384241—Short Wave Outfit.
List Price, $5.10. NET.

$2.48

List Price, $4.00. NET.

Our Special Amateur Section
Everything For the Ham Station
Our Special Amateur Section

Silver-Marshall Short Wave Kit

The B-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. It has been given great prominence through its use by experimenters such as Commander Tyroff's in Brazil. Using the four coils supplied, the amateur transmitting bands fall well to the center of the tuning. Non-linear parts 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 three tube set, they will give excellent reception of distant short wave amateur and broadcast stations with .00014 mfd. condenser. Weight, 1 lit. Complete instructions furnished. Unlisted wt., 15 lbs.

386400—Complete Kit, no tubes included. List. $36.00. NET...$25.20

R. E. L. Short Wave Coil Kit

This kit of coils has been designed to meet the demand for special short wave equipment requiring separate primary, secondary, and tickler windings.

Type 17 Kit of Coils Only

Consists of one each No. 117 M. N. O. and P coils licensed under Armstrong Patent No. 1,113,119. Ratisse Is-150 meter: another size is available—1

3134875—I-Ist price. $23.00. NET

3134131 9—List price, $11.00. NET PRICE

31359 1 —Size 36 wire.

31359 1 0—Size 16 wire.

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 half 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.

388903—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 ¾ amp. 381031—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 in relation to the signal but not amplifying static and similar noises. Amplification constant of tube is 30. Filament 5 volts; ¾ amp. 28939—Cunningham CX340. List. $1.54

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3
Our Special Amateur Section

Karas Orthometric Short Wave Condensers

Karas Condensers are an example of beautiful workmanship and efficiency. Each condenser is combined in one case. The plates are shaped of heavy lacquered brass, securely welded, and give a straight-line wave length plate and securely rivetted. Clear bakelite insulation, adjustable rotor tension, straight-line wave length plates, and unique design are some of its features. Two sizes are available.

Available in lots of 100. Prices are prepaid.

<table>
<thead>
<tr>
<th>Plates mmf.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B1283</td>
<td>$3.90</td>
</tr>
<tr>
<td>3B1284</td>
<td>$3.90</td>
</tr>
</tbody>
</table>

Cardwell Variable Condensers

No better condenser can be used in a short-wave radio set than a Cardwell. Standard equipment with the amateur radio set, insure noiseless action. The insulation is efficient and the condenser resistance is negligible. Available in lots of 10. Prices are prepaid.

<table>
<thead>
<tr>
<th>Plates mmf.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B3400-191E</td>
<td>$2.66</td>
</tr>
<tr>
<td>3B3401-187E</td>
<td>$2.66</td>
</tr>
<tr>
<td>3B3402-188E</td>
<td>$2.76</td>
</tr>
</tbody>
</table>

Chelton Midget Condensers

Best trade construction. Fine-looking. Can be used on any condenser or separately as a balancing condenser. Especially adapted to capacity coupled antennas circuits. High conductivity brass plates. Hard rubber insulation, not in electrostatic field. One-hole mounting. Postage, 3c extra.

<table>
<thead>
<tr>
<th>Type C</th>
<th>M. Cap.</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B3444-167C</td>
<td>.000075</td>
<td>$4.00</td>
<td>$2.70</td>
</tr>
<tr>
<td>3B3454-167C</td>
<td>.000125</td>
<td>$4.00</td>
<td>$2.70</td>
</tr>
<tr>
<td>3B3466-170C</td>
<td>.00025</td>
<td>$4.00</td>
<td>$2.76</td>
</tr>
</tbody>
</table>

B-T R. F. Choke Coil

This is a small choke, mounted in a molded bakelite case with two binding posts for connection. It consists of several parallel windings of fine wire on a wooden spool and has a high frequency range. The rotor is plated gold-plated set only.

| 3B3408-Each | $5.30 |

Hammarlund Short Wave Condensers

A baby precision condenser built for short wave work. Soldered brass plates, cone-bearing iris, variable air condensers for any position. Single hole mounting and securely soldered and give a straight-line wave length and is intended for either regeneration control or tuning.

<table>
<thead>
<tr>
<th>M. Cap.</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>.00025</td>
<td>$2.99</td>
<td>$2.69</td>
</tr>
<tr>
<td>.00035</td>
<td>$2.75</td>
<td>$2.50</td>
</tr>
<tr>
<td>.00045</td>
<td>$2.50</td>
<td>$2.25</td>
</tr>
</tbody>
</table>

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 plates and securely rivetted. Clear bakelite insulation, adjustable rotor tension, straight-line wave length plates, and unique design are some of its features. Two sizes are available.

Available in lots of 10. Prices are prepaid.

<table>
<thead>
<tr>
<th>Type mfd.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B4243</td>
<td>$1.15</td>
</tr>
<tr>
<td>L-17</td>
<td>$2.50</td>
</tr>
</tbody>
</table>

Hammarlund Midline Condensers

A new shape of plate lying between S.L.F. and S.L.W. Hammarlund's latest and embodies several new principles. Full floating, or separately as a balancer. Two types are available. The stator is a single spaced model in three capacities and a special double-spaced model, especially intended for short-wave receiver construction. Postage, 6c extra.

<table>
<thead>
<tr>
<th>Plates mmf.</th>
<th>List</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B3323</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>3B3331</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

Hammarlund S. L. F.

A light, strong and efficient straight-line-frequency condenser assembled from polished brass plates, securely soldered and rivetted 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 stator is a single spaced model in three capacities and a special double-spaced model, especially intended for short-wave receiver construction.

Postage, 6c extra.

<table>
<thead>
<tr>
<th>Plates mmf.</th>
<th>List</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B3838</td>
<td>$0.00</td>
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</tr>
<tr>
<td>3B3838</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

Cardwell Transmitting Condensers

A very popular condenser for amateur stations. Built with the greatest care—heavy low loss construction, wider spacing. High insulation, lower loss are their main features. Shipping weight 5 lbs.

<table>
<thead>
<tr>
<th>M. Cap.</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>.00015</td>
<td>$6.00</td>
<td>$3.90</td>
</tr>
<tr>
<td>.00025</td>
<td>$7.00</td>
<td>$4.60</td>
</tr>
<tr>
<td>.00045</td>
<td>$9.00</td>
<td>$5.90</td>
</tr>
</tbody>
</table>

Code Practice Set

Set consists of a key and buzzer mounted on a polished wood base. The buzzer reproduces accurately the high pitched sounds of code stations. Con- nected to a dry battery to the binocular post on the set by means of a short piece of wire. Press the key and a buzzing sound will be heard. To a very short time you 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 4½, in- wide. | $2.89 |

Standard Radio Key

A heavy type of Radio Key includes a 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 ¼ in., which sustains materially in the dissipation of the heat produced. They are silver plated with nickel arcing.

| Each | $2.69 |

THE BARAWIK CO., CHICAGO, U. S. A.
Our Special Amateur Section

Aero Transmitter Kit

A universal transmitter designed by Mr. F. J. Marco, noted short wave exper-

ten. Owns amateur bands with interchangeable coils. Uses tuned-grid tuned-

de-plate circuit. Extremely flexible. Makes a very efficient low power, long dis-


tance. Has own Antenna and New York rectifier usually using only a 201-A tube. May be used with tubes not larger than 1/4 watt. Sup-

plied for two different ranges. If to be used with A. C. filament supply so A. C. volt-mer will be supplied.

List of Parts

Aero Transmitter Kit, 2040K, 4680K, or 9018K with 2 mounting bases and 2 No.

40000 coils. Caras; 2 Plates; 2 Carter Mica Condensers. 1 Silver-Brass UX Socket; 1 Binding Post Panel; 2 Mica 10x 18 Sub Panel; 10

lengths No. 14 Tinned Copper Wire; 1 Miscellaneous Screws, Lugs, Nuts, etc. with 2 Aero Subpanel Brackets. (This Kit does not include Meters.)

3B378—For 18.5 to 52 Meters, $25.00. Includes shipping weight, 15 lbs.

List Transmitter with Meters

These kits are exactly the same as the above ex-

cept they have in addition 18x18x4/3 panel; 1 0-100

D. C. Jewell Milliammeter: 1 0-10 Jewell Voltmeter and 1-0 Amplere Jewell Antenna Meter. Specify whether to be used on A. C. or D. C. Filament supply. Shipping weight, 22 lbs.

3B382—18.5 to 52 meters.


3B384—72 to 190 meters. List each, $57.00, NET $44.67

Jewell Transmitting Trice

These are the necessary instruments for amateur transmis-
sion. Uniform in size, 3 in. body, 3/4 in. Flange. Shipping weight, 3 lbs.

No. 54 D. C. List, $7.50, NET, $6.63

3B191—0-500 volts.

3B192—0-1000 volts.

3B193—0-2000 volts.

3B194—0-5000 volts.

3B195—0-10,000 volts.

List, $7.50, NET $5.63

No. 64 Radiation Ammeter

Thermo couple type with D’Arsonval movement. Same size as No. 54.

3B196—0-500 volts.

3B197—0-1000 volts.

3B198—0-2000 volts.

3B199—0-5000 volts.

3B200—0-10,000 volts.

List, $7.50, NET $3.80

No. 74 A. C. Voltmeters

For reading transmitter filament volt-

age A. C. only. Used only on 60 cycle A. C. current. Same size as No. 54.

Shipping weight, 2 oz.

List, $7.50, NET $6.63

3B190—0-50 volts.

3B191—0-100 volts.

3B192—0-200 volts.

3B193—0-500 volts.

3B194—0-1000 volts.

3B195—0-2000 volts.

3B196—0-5000 volts.

3B197—0-10,000 volts.

List, $7.50, NET $5.63

Aero Short wave Chokes

Designed for uniform choking over the amateur bands. Eliminates the appear-

ance of so called "holes" in the tuning range where the receiver will cut out. Short wave special is included for any type short wave re-

ception.

For transmitters use No. C-248 espe-
cially 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 of a completely selected

parts specified by the short wave au-

thorities in Q S T. Great distances can be covered with low power with this efficient transmitter. Any type tube may be used—189, 201A, 1211, or 450-A for A. C. filament, 6B4, 6P6, for D. C. filament with B batteries, B Eliminator, Motor generator or AC from a transformer or long A. C. supply. For any type, for any position, the tube. May be used on any wave length from 15 to 100 meters. Panel size 3 inches. Grip 8 inches. Perfectly matches the R. E. L. rece-

iver. Shipping wt., 15 lbs.

3B6407—No. 175 Transmitter, List, $30.00,

3B6408—$22.50, NET

Weston Meters

These meters are a real known the world over for their extreme ac-

curacy and high quality. Unquestionably the leader of the ir-


Model 301 D. C. Meters

3B1973—0-5 volts. Shipping weight, 1 oz.

3B1977—0-5 amps. Shipping weight, 1 oz.

3B4000—0-200 ma. Shipping weight, 1 oz.

Net

$6.00

$6.00

$6.00

$6.00

A.C. Meters Model 478

For reading transmitter filament voltage. These meters are for use on A.C. only.

3B198—0-5 volts... (For watt tubes)

3B4011—0-15 volts... (For 5 watt tubes)

3B4012—0-10 amps... (1 watt tubes)

Net

$5.00

$5.00

$10.12

Thermo-Ammeters Model 425

For reading transmitter filament current in antenna

3B6413—0-1 amp., NET $2.50

3B6416—0-5 amp., List each, $13.50,

NET $10.12

Karas Micrometric Dial

An excellent dial for amateur work. Gives at a glance the intensity of the current selected. By No. 1 or 2 vernier action or 0.12/ vernier ac-

tion permitting the reading of 1/1000 of an inch. Now you can tune into those distant and elu-


3B1828—180° Counter-clockwise.

3B1829—360° Clockwise only.

3B1833—$2.06, NET

National Variable Vernier Dial

The type "B" dial is especially suited to the varying con-
ditions of the amateur. Any Vernier ratio from 6/1 to 20/1 is instantly available. No slippage or back lash—turns very easily. Hair line indicator for accurate tuning. Beauti-

fully made of moulded bakelite. Made in parts nickel plated graduated full 360°. Fits any 1/4" in. shaft. Shipping wt., 1 oz.

3B4146—Clockwise.

3B4147—Counter-clockwise.

3B4148—$1.50, NET

$1.50

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 is 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 install in operation. An excellent crystal amplifier stage is obtained by using the series feed transmitter with this circuit. Power supply can be had either through motor generator, rectified A. C. or "J" batteries.

All parts are supplied to make a complete transmitter. Supplies in the two sizes most commonly used by amateurs. No tubes, batteries or other accessories included are double units.

- **386430**—Type TH-5, Type UX210 Tube, 7½ watts. List, $56.00. NET...
- **386431**—Type TH-75. Uses UX852 Tube, 75 watts. List, $63.00. NET...

**Seif Rectified Coupled Hartley**

Looks similar to Coupled Hartley above. By using two tubes as oscillators in the seif 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 satisfaction. Matches Unis-...
Our Special Amateur Section

Acme Transformers and Chokes

Acme Apparatus has long been preferred by the American amateur. Recognition of this fact has led to the development of transformer types which have practically all C. W. requirements.

Type TR 5—500 watts cap, supplies 1000 volts each side of center tap, at 250 mils.

Type TR 6—200 watts cap, supplies 750-750 volts each side of center tap, at 2000, 1500, and 1000 volts each side of center tap, at 250 mils.

Type TR 4 has two 10 volt amp. filament windings only.

Choke Coils

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>386444</td>
<td>TR 5</td>
<td>$30.00</td>
<td>$25.50</td>
</tr>
<tr>
<td>386445</td>
<td>TR 6</td>
<td>$18.00</td>
<td>$13.51</td>
</tr>
</tbody>
</table>

Plate Supply

For the use of the shell type transformers, we supply plate supplies designed to supply the necessary voltage and plate power at the lowest effective cost. These supplies are guaranteed for high efficiency and good regulation.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>385880</td>
<td>80 8½</td>
<td>$7.00</td>
<td>$4.30</td>
</tr>
<tr>
<td>385882</td>
<td>120 13½</td>
<td>$16.00</td>
<td>$10.50</td>
</tr>
</tbody>
</table>

Thordarson Power Transformers

Filament (Shell Type)


<table>
<thead>
<tr>
<th>Cap. Sec.</th>
<th>Wattage</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>385893</td>
<td>100 250</td>
<td>$10.00</td>
<td>$6.10</td>
</tr>
<tr>
<td>385894</td>
<td>250 500</td>
<td>$18.00</td>
<td>$12.00</td>
</tr>
<tr>
<td>385895</td>
<td>500 1000</td>
<td>$30.00</td>
<td>$20.00</td>
</tr>
</tbody>
</table>

Thordarson Special 7½ Watt Transformer

This has a filament voltage of 500 volts and plate supply voltage of 650 volts designed for use with one 7½-watt tube. Built unmounted only.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>385824</td>
<td>1-3½</td>
<td>$7.50</td>
<td>$5.25</td>
</tr>
</tbody>
</table>

Ward-Leonard Transmitting Grid Leaks

These resistances are standard throughout. Shell type cap. units especially recommended for amateur work. They are wired through a terminal board. Each unit is carefully tested and then coated entirely with fused vitreous enamel. Heating and cooling permanent. All models listed except 385868-100 are individually tested for voltage poses and have a high factor of safety. They are individually tested for voltage and so constructed to hold their operating capacities without variation.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>386444</td>
<td>TR 5</td>
<td>$30.00</td>
<td>$25.50</td>
</tr>
<tr>
<td>386445</td>
<td>TR 6</td>
<td>$18.00</td>
<td>$13.51</td>
</tr>
</tbody>
</table>

Filament (Shell Type)

Watts Volts List Net

<table>
<thead>
<tr>
<th>Watts Volts</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 2000</td>
<td>$13.00</td>
<td>$9.10</td>
</tr>
<tr>
<td>600 1250</td>
<td>$5.20</td>
<td>$3.60</td>
</tr>
</tbody>
</table>

Porcelain Standoff Insulators

This insulator is larger in size than the General Radio and is suitable for higher voltage work. Leads must be kept at considerable distances from other material; highly glazed, 4 inches high. Postage, 3c extra.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>385976</td>
<td>1.62</td>
<td>$1.15</td>
<td></td>
</tr>
<tr>
<td>385977</td>
<td>2.60</td>
<td>$1.85</td>
<td></td>
</tr>
<tr>
<td>385978</td>
<td>3.25</td>
<td>$2.10</td>
<td></td>
</tr>
<tr>
<td>385979</td>
<td>4.90</td>
<td>$3.35</td>
<td></td>
</tr>
</tbody>
</table>

Small Standoff Insulators

Suitable for supporting wires and instruments in transmitters or lead-ins. Dark brown glazed porcelain, 1½ in. long, 1¼ in. high. Ship. wt., 8 oz.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>385980</td>
<td>1.62</td>
<td>$1.15</td>
<td></td>
</tr>
<tr>
<td>385981</td>
<td>2.60</td>
<td>$1.85</td>
<td></td>
</tr>
<tr>
<td>385982</td>
<td>3.25</td>
<td>$2.10</td>
<td></td>
</tr>
</tbody>
</table>

Lead-in Insulators

Made of moulded hard rubber, 1 inch hole. Secured locked by two adjustable nuts.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>382608</td>
<td>For ¼ in. or smaller wires. Each, with black rubber leads.</td>
<td>$0.92</td>
<td></td>
</tr>
<tr>
<td>382609</td>
<td>For ½ in. or smaller wires. Each, with black rubber leads.</td>
<td>$1.10</td>
<td></td>
</tr>
</tbody>
</table>

Send-in Insulators

For inserting into sets. Made of moulded hard rubber, 1 inch hole. Secured locked by two adjustable nuts.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>382610</td>
<td>For ¼ in. or smaller wires. Each, with black rubber leads.</td>
<td>$0.92</td>
<td></td>
</tr>
<tr>
<td>382611</td>
<td>For ½ in. or smaller wires. Each, with black rubber leads.</td>
<td>$1.10</td>
<td></td>
</tr>
</tbody>
</table>

Tubing Transmitting Filter Tubes

UX-852

A new Tube for amateur use. Normal output 75 watts on waves from 7 meter to 30 meter band. Plate 5000 volts. Plate 2500 volts. Plate current 1-½ A. Plate dissipation about 100 watts.UB base on filament end, plate at top. Leaks thru top and side wall. $3.00 $2.00 $1.50 $1.25 $1.00 $0.75 $0.50 $0.25 $0.10 $0.05 $0.00

UX-210—7½ Watts

For the low power transmitter, this tube combines a 2½ watt. Will deliver a power of 7½ watts. Plate 5000 volts. Plate current 1-½ A. Plate dissipation 45 volts but much higher can be used in an efficient circuit. Use this tube for SSB and get real DX on low power.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>381108</td>
<td>UX-210</td>
<td>$27.63</td>
<td></td>
</tr>
<tr>
<td>381109</td>
<td>UX-210</td>
<td>$27.63</td>
<td></td>
</tr>
</tbody>
</table>

Transmitter Microphone

Well made from standard telephone parts. Carbon or a hard rubber for radio telephone work. Microphone is nickel plated and polished. Has black knurled handle. Shipping weight about 2 pounds. Complete with handle and cord.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>List price</th>
<th>Net price</th>
</tr>
</thead>
<tbody>
<tr>
<td>386498</td>
<td>UX-852</td>
<td>$6.00</td>
<td>$3.60</td>
</tr>
</tbody>
</table>

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. It is supplied in taped form. This No. 12 wire, soft wire, is recommended for both transmitting and receiving aerials.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Type</th>
<th>List price</th>
<th>Net price</th>
</tr>
</thead>
<tbody>
<tr>
<td>285904</td>
<td>Per 100 foot coil</td>
<td>$89c</td>
<td>Postage, 10c extra</td>
</tr>
</tbody>
</table>
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 are built on removable shafts and are strongly built mechanically. Heavy brass plates hold in alignment with brass tie rods. Excellent insulation with minimum dielectric. Very low loss, and highly efficient. All units finished, and offered for selection. Perfect design. Losses reduced.

Condenser Shafts

<table>
<thead>
<tr>
<th>Material</th>
<th>Length Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass</td>
<td>8 in.</td>
</tr>
<tr>
<td>Brass</td>
<td>12 in.</td>
</tr>
<tr>
<td>Bakelite</td>
<td>12 in.</td>
</tr>
<tr>
<td>Bakelite</td>
<td>16 in.</td>
</tr>
</tbody>
</table>

PILOT Condensers

Centrally type, giving a calibration lying between S.L.F. and S.L.W. Parts are gold finished, end plates are highly polished aluminum. Automatic constant tension, pointer leads to rotor, extension shaft in rear, minimum capacity, extremely low losses, single condenser. Single or two-holed mounting. Shaft 1/4-in. diameter. Calibration and coil data furnished. Shipment weight, 1 1/4 lbs. each.

De Jur Condensers

Moulded Bakelite insulation outside electrostatic field suspends stator plates which bear only on rotor frame. Condenser frame grounded to rotor, eliminates all hand capacity. End tie bar of rotor plate keeps spacing uniform. End plates of brass, finished in nickel. Direct electrical connection made from rotor to frame by spring phosphor-bronze pin-tail connector. Single, phase adjustable difference: 1/4-in. 1 mm. capacity. Double and triple gang with compensating. Shipping weight, 1 lb. single, 2 lbs. double, 3 lbs. triple.

Amsco Allocating Condensers

(Straight-Line Frequency)

Grounded rotor, aluminum outer frame, stops at zero and full scale positions, flexible pivotal connections and rotor shaft of chromium nickel needle steel makes this a highly efficient and desirable instrument. Packed in standard frame. Some types in different frames. Shipping weight, 1 lb.

Set Builders Special Condensers

Gang with Link Motion

<table>
<thead>
<tr>
<th>Type</th>
<th>Shpg. wt.</th>
<th>List Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>12 oz.</td>
<td>$2.50</td>
</tr>
<tr>
<td>Two Gang</td>
<td>2 lbs.</td>
<td>$6.00</td>
</tr>
<tr>
<td>Three Gang</td>
<td>3 lbs.</td>
<td>$8.00</td>
</tr>
</tbody>
</table>

De Jur Condensers


PILOT Condensers

Duplex Low Loss Condenser

A low priced condenser of fine mechanical construction and perfect design. Losses reduced to a minimum. Heavy aluminum plates, brass tie rods, and brass plate controlled by lever, 14-in. shaft, 3 in. dial required on vernier type. No dial included. Shipment weight, 1 lb.

De Jur Condensers

Camfield Synchrotune 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.

Cardwell Variable Condensers

Pioneers in precision-made instruments, engineered to the highest standards, conforming to laboratory requirements. Superior in construction, ingenious in mechanical design, they will meet all that way.

**TYPE A**

Taper plate, clockwise rotation only. Tuning curve midway between straight wave length and frequency. Meniscus, wt., 1/2 lbs.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>384001</td>
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</tr>
<tr>
<td>384003</td>
<td>1067 .060050</td>
<td>$6.00</td>
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Cardwell Balancet

A micrometer condenser of supreme efficiency.

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>383346</td>
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</table>

Coto-Variable Air Condenser

Built upon a rigid aluminum case with non-warping and non-cracking features. Bearing makes operation smooth and easy. Positive electrical connections. Novel construction avoids air leakage and resistance losses. Mounted on ball bearings, the rotor is adjusted by a variable spring tension provided. Rotor mounted on ball-bearings, insulated long life. Designed for either panel or baseboard mounting. Plates finished in bright dipped brass. Other parts nickel plated. Made in single, double and three gang units. For all purposes.

<table>
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<tbody>
<tr>
<td>384001</td>
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<td>$6.00</td>
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</tbody>
</table>

Signal Condenser

Separates as completely as possible the entire 360 degrees of the dial and eliminates wave lengths from 150 to 600 meters. Low minimum capacity, 2 p.f., on the dial will stations be crowded. Carefully selected wave lengths are extremely small and preclude overlap. Three holes made. Shpg. wt., 1 1/2 lbs.

<table>
<thead>
<tr>
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<tbody>
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<tr>
<td>383347</td>
<td>1067 .060050</td>
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</tbody>
</table>

Chetlon Midget and Bakelite Condensers Are Listed on Page 58

We Pay Freight As Per Offer Given on Page 3

Midline Condensers

A scientific precision condenser, made of hard brass and stator plates of high conductivity plated in nickel. Sealed brass posts and end pieces, securing electrical effects of a solid piece. Especially shaped plates for easy tuning on both lower and upper wavelengths. Adjustable ball-bearing rotor shaft, ground and polished. Mounted on ball-bearings, molded, compact, can't warp.

New Hammarlund Equalizer

An excellent equalizer, having 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, 33 mfd. Minimum capacity, 3 mfd. Each...$1.31 Each...

Hammarlund, Jr.

Soldered brass plates, cone bearings. Has new locking device holding rotor plates in any position. Bakelite knob, mica dielectric and a heavy phosphor-bronze spring plate. Single hole panel mount. Shpg. wt., 5 oz. M. Cap.* Net...

Compensator

Provides an easy method of rapidly balancing two circuits as capacity is taken from one while being added to the other.

<table>
<thead>
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TWO GANG

<table>
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</tr>
<tr>
<td>38364</td>
<td>1067 .060025</td>
<td>$6.00</td>
</tr>
</tbody>
</table>

Hammarlund, Jr.

SA-ALD Localized Control Unit

Multiple Condenser units on a single shaft. Speedometer type controls for separate condensers placed side by side for convenient manipulation. Control placed on the other side. Handsome embossed bronze face plate included. Corrected from the condensers used. Condenser units capacity .00035. Shpg. wt., 2 to 4 lbs.

<table>
<thead>
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</thead>
<tbody>
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<tr>
<td>38338</td>
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<td>$6.00</td>
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</table>

Midline Condensers

A scientific precision condenser, made of hard brass and stator plates of high conductivity plated in nickel. Sealed brass posts and end pieces, securing electrical effects of a solid piece. Especially shaped plates for easy tuning on both lower and upper wavelengths. Adjustable ball-bearing rotor shaft, ground and polished. Mounted on ball-bearings, molded, compact, can't warp.

Full floating rotor shaft which supports no weight and is instantly adjustable for length. Any number of segments on a tandem shaft can be built up from the single units. Template, hand-capacity shield and anchoring screw included. A unit may be made in a single capacity. Tested on 1,000 volts a.c. Ideal for drum dial. Shpg. wt., 1 1/2 lbs.

TWO GANG

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>38363</td>
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THREE GANG

<table>
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</tr>
<tr>
<td>38366</td>
<td>1067 .060025</td>
<td>$6.00</td>
</tr>
</tbody>
</table>

*Capacities given are for each unit
Superior Low-Loss Tuners  
$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 astatic aerial. Inductance and secondary, wound on a coil within which is a tickler coil. Windings are of red, white and green silk covered wire on low loss cotton form. With these units first class sets can be built at a low cost as with them three tubes will equal five tubes in most other circuits. Distant stations can be obtained by tuning in with an exceptional volume and quality of tone. Shipping weight 12 oz.

383616—Large size, 3 inches diameter; 3/4 inches high. Covers 190 to 370 meters with .0005 condenser. Each...

$1.17

383617—Small size, 2 1/2 inches diameter; 2 1/4 inches high. Covers 190 to 570 meters with .0005 condenser. Each...

$0.97

Duo-Control 3-Circuit Tuner  
$1.75

Primary and secondary are wound on glass rod. Tickler coil permits regeneration without sparking. Single hole mounting. Plated leads. 2 1/2 in. high; 2 1/2 in. diam. Shipping wt., 8 oz.

383621—200 to 570 meters for .0005 condenser. List.

$3.22

383622—200 to 110 meters for .0001 condenser. List.

$3.22

R. E. L. Basket Weave Coils  
$3.15

5 coils covering 10 to 110 meters when used with .00005 condenser. Flexible leads and clips, and adjustable mounting. Each set includes 3 coils.

383527—Five coils with mounting. List.

$4.50

Benjamin Tuned Radio Frequency Transformers  
$3.53

384113—3-inch diameter. Set of 3 with mounts. List.

$5.65

384114—2 1/2-inch diameter. Set of 3. List.

$5.76

Benjamin "Lekeless" Transformers  
$3.39

Closed field prevents leakage and feed back. Min. in satu low is 100,000. List.

384115—Set of 3 matched coils. List price.

$7.60

Net...

$4.41

Improved Low Loss Coils

383710—Set of three with condenser mounts. List...

$30.00

383709—Set of three with condenser mounts. List...

$1.16

Space Wound 3-Circuit Tuner  
$1.10


383700—Net...

$1.10

383699—Antenna Coll. 5—Net...

$6.50

180° Variometer and Variocoupler  
$1.10

Properly designed and of good mechanical construction. Green silk windings. Firm contact, 1/2 in. high. Suitable for all broadcast wave lengths. Variocoupler primary is tapped for fine tuning. Use with 0005 condenser. Shipping wt., 18 oz.

383701—Varioimeter—List...

$2.00

383702—Variocoupler. List...

$1.10

Improve Low Loss Coils

383701—Varioimeter—List...

$2.00

383702—Variocoupler. List...

$1.10

Du-Cut Control 3-Circuit Tuner  
$1.75

All parts are wound with green silk insulation. Primary and tickler are variable. An especially desirable type of tuner. Permits very close tuning. Three circuit, tuned on skeleton form. Measures only 2 1/4 in. long by 1 3/4 in. by 1 3/4 in. diameter. May be used in the popular circuits with the tuner where single stage of T.R.F. and regenerative detector is specified. Tuned with .0005 condenser.

383618—List...

$2.59

Three Circuit Tuner  
Low Loss Type

99c

Tuned with .0005 condenser.

383616—Net...

$97.00

383703—List...

$97.00

383617—List...

$97.00
Sickles Coils for Roberts
Reflex

For any Roberts circuit. Rate 25 to 50 meters. Used in two, three, or four tube circuits. The R. F. regenerative reflex circuit will prevent the creation of a large eddy current. This tube set will operate loudspeaker, different 15 k. Type, with 2 small condensers. Shipped wt. 1 lb. 5 oz. 385767. List. $5.20

Sickles Coils for Bovill Drake

Attatched coil and R. F. coil with low-inductance R. F. chokes. 1930 and 1931 type used. Excellent. Shipped wt. 1 lb. 5 oz. 385768. List. $4.90

Coils for Bovill Drake

Attatched coil and R. F. coil with low-inductance R. F. chokes. 1930 and 1929 type used. Excellent. Shipped wt. 1 lb. 5 oz. 384143. List. $3.35

Tuned Radio Frequency Unit

Consist of radio frequency transformers wound on bakelite frame and mounted in 1 lb. woven unit. Shipped wt. 1 lb. 5 oz. 383617. Each. $2.85 383612. Set of 3. $7.65

Shielded R. F. Transformer Coils

Consist of shielded wound coils mounted in 1 lb. woven unit. 1 lb. 5 oz. Wound with fine wire to obtain high inductance. Shipped wt. 1 lb. 5 oz. 383620. Set of 3. $3.75

Space Wound Plug-in Coils

Space wound plug-in coils for the most improved and sensitive 25 to 50 meters. Excellent. Includes 3 different coils with standard lead-in wires. One eature is a cut-out and built-in lead-in wire. Improves output of receiver. Shipped wt. 1 lb. 5 oz. 383620. List. $4.38

Shielded T. R. F. Transformers

Shielded for tuned R. F. circuit. 1 lb. woven unit with 1 lb. 5 oz. 383017. Price: Each. $2.55. Set of 3. $7.65

Space Wound Transformer Coils

Space wound transformer coils with 1 lb. 5 oz. 383017. Price: Each. $2.55. Set of 3. $7.65

Radio Frequency Coils

Radio frequency coils for use in radio frequency transformers. 1 lb. 5 oz. 383017. Price: Each. $2.55. Set of 3. $7.65

Little Giant Doughnut R. F. Transformer

Little Giant Doughnut R. F. Transformer. Designed to be used with radio frequency transformers. 1 lb. 5 oz. 383017. Price: Each. $2.55. Set of 3. $7.65

We Pay Freight As Per Offer Given On Page 3
Audio Frequency Transformer
Type AF-3

Tone quality depends almost entirely on the audio frequency and on 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 to be overloaded in the last tube. Many dissatisfied set owners will purchase more efficient audio frequency and substitute them for the original transformers in their sets. Ferranti will do the job as the finest engineering skill is in each Ferranti Transformer. Known for tone qualities throughout the radio field. Ratio, 3:1 to 1. Dimensions, 2.5x3.5x.5 inches. Shipping wt., 2.5 lbs.

2B134—Type AF-3. List, $12.00. NET $7.06

---

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 positions of any type speaker. Binding posts for easy connection. 2½ in. square, 1½ in. thick. 3B134-2 for 1st stage, 3B134-3 for 2nd stage, 3B134-300 Output. Protects speaker.

List, each, $5.00. NET, EACH $2.94

See page 37 for Truphonic Amplifier.

Acme Audio Amplifier

A-2 is unquestionably the most advanced high frequency amplifier for the money. Made with the highest quality in radio sets equipped with a power tube in the last stage. Improves reception of weak programs. Built on the same principle as line power amplifiers and gives excellent performance in the evenness of amplification so characteristic of this transformer. Designed for use with any type tube where the result in the evenness of amplification so characteristic of this transformer. De-

2B120—List, $5.00. NET $2.94
2B121—$7.35. List, $4.00. NET $2.75
2B1211—$6.50. List, $4.00. NET $2.65
2B6477—Thordarson Power Push-Pull Transformer. List, $16.00. NET $9.60

---

Amerian DeLuxe Transformer

Long recognized for their superior quality in the radio field. The MAN Y Laboratories use these transformers in new products. Long identity with the radio field has preserved the quality of the product. Its faithful amplification when combined with the best of reception equipment produces a natural, clear and greater efficiency.

2B132—List, $5.00. NET $3.94
2B1312—List, $5.00. NET $3.29
2B1319—List, $3.53. NET $2.65
2B133—3.5 lbs. List, $2.94. NET $2.94
2B1333—3.5 lbs. List, $3.25. NET $2.65
2B1331—3.5 lbs. List, $2.65

---

2B1316—List price, $8.00. NET $4.72

...
National Transformer

Tone quality is of first importance. The transformer must have a critical tone quality. The neutral position is a vital importance. National has frequency transformers. A pronoun of characteristic is the successful amplification of a bass characteristic. To operate equally well in the third stage as in the first two stages of amplification. Completely shielded. Attractive nicked case. Transformer


Pacent Super Audioformer

Designed for finer musical values in broadcast reception. Not quite so easy to handle this transformer pow. The ratio of 3 to 1 is capable of handling energy amplification of 500 to 1 per audio step and yet low frequency tubes have a tap in the center giving 275 volts on a 20 microfarad condenser to prevent high D. C. Current from getting into the high D. C. Current from getting into the output tubes of the set without injurin the coil of the loud speaker. The transformers are equipped with cord and tip so that they can be readily attached to the plus of the set and the minus of the loud speaker cord may in any way be attached to the secondary binding posts of the transformer.

Manufacturer's Model for Sub-panel or Sub-base Mounting

3B1206—2 to 1 ratio. List, $2.10. Shipping wt., 1 lb. Net, $1.45.


BARAWIK Special Units

Guaranteed Finest Quality

Our Special Units

The type RR Step-Up Transformer is designed for protection of the loud speaker. It is wound on a 1 to 1 ratio and has sufficiently high impedance to take care of the high voltages 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. In order to prevent injurin the coil of the loud speaker. The transformers are equipped with cord and tip so that they can be readily attached to the plus of the set and the minus of the loud speaker cord may in any way be attached to the secondary binding posts of the transformer.

3B1222—Karas Harmonik. List, $5.50. Net, $2.94.

Marvelo Transformers

A decided superior type of audio frequency transformer. The high fidelity audio transformer and volume. Laboratory tests show the wonderful response to frequency variations over the entire musical scale. Have high impedances to match UV, UV, UV 199 or C 260 WD or C 11 and 12 and other type tubes having similar characteristics. The bakelite terminals prevent leakage and losses. No electrostatic coupling.

Completely Shielded

SBY 200—2 to 1. List, $7.50. Net, $2.10.

SBY 201—3 to 1. List, $3.30. Net, $1.60.

Karas Harmonik Audio Transformers

Suitable for regeneration circuits, audio frequency sets, superhet and reflex circuits. High amplification without distortion. A high ratio. Shipping wt., 1 lb. 12 oz.

3B1222—Karas Harmonik. List, $5.50. Net, $2.94.

Muter Tuned Double Impedance Units

SPECIFICATIONS—Eliot coils with Muter condensers assembled under Muter standard of precision, giving the desired audio frequency unit in present day amplifiers. Doubly sealed in highly enameled metal case against atmospheric conditions. 34 in. high, 34 in. wide. Packaged in individual cartons with complete diagrams for assembly. Weight, 1½ lbs. each.

3B1349—First Stage. List, $6.00. Net, $5.50.


### Tobe Fixed Condensers

**Tobe Filter and By-Pass Condenser**

- Works on voltage up to 300 volts D. C., 200 volts A.C. and 250 volts altern. Perfectly and rigidly insulated, allowing little or no grid leak in appearance. Case of matte-finished aluminum for compactness and lightness.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mf.</th>
<th>List</th>
<th>Net</th>
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<tr>
<td>31344</td>
<td>0.001</td>
<td>.15</td>
<td>.1</td>
</tr>
</tbody>
</table>

**Tobe 600 Line**

- Operate continuously up to 1,000 volts D. C. and 500 volts A.C. Stand completely arranged for compactness with leak clips. Two larger sizes are 7 1/4 inches high, 3 1/2 inches wide, 1 1/2 inches deep. Shpg. wt., 1/4 to 2 lb.

<table>
<thead>
<tr>
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<tbody>
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<tr>
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<td>2.50</td>
<td>1.50</td>
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<td>2.10</td>
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<tr>
<td>3B444</td>
<td>4.0</td>
<td>6.00</td>
<td>3.60</td>
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</table>

**Tobe 760 “B” Block**

- Designed for use with Raytheon or other condensers. Contains two 0.044 condensers, 750 v. D. C. Condensers for filter circuits. Also excellent for transmitters and accumulators. Shpg. wt., 6 oz.

<table>
<thead>
<tr>
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<td>2.76</td>
<td>1.62</td>
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<tr>
<td>3B439</td>
<td>4</td>
<td>4.60</td>
<td>2.65</td>
</tr>
</tbody>
</table>

**Tobe 400 Line**

- Designed for use with Raytheon or other condensers. Contains two 0.1 high test condensers, 400 v. D. C. Condensers for filter circuits. Also excellent for transmitters and accumulators. Shpg. wt., 1/4 lb.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mf.</th>
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<tbody>
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<td>0.05</td>
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<td>$0.75</td>
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</tbody>
</table>

**Tobe Buffer Condenser Unit**

- Contains two 0.1 high test condensers for eliminator transformer secondary. For use with above unit. Shpg. wt., 12 oz.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mf.</th>
<th>List</th>
<th>Net</th>
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<tbody>
<tr>
<td>3B477</td>
<td>1</td>
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<td>$1.20</td>
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</tbody>
</table>

**Tobe Interference Filter**

- Motors, motors, home such as vacuum, used on washing machines, oil burners, machinery, sewing machines, etc., cause unpleasant interference with radio reception. Easily installed and a sure remedy. Shpg. wt., 4 lb.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mf.</th>
<th>List</th>
<th>Net</th>
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<tbody>
<tr>
<td>3B467</td>
<td>0.05</td>
<td>$1.20</td>
<td>$0.75</td>
</tr>
</tbody>
</table>

### Polymet Hi-Volt Condensers

- For by-pass and filter circuits. Non-inductive type, free from leakage. Guaranteed with highest grade foil, vacuum impregnated with most stable insulating material and tested to withstand voltages specified with wide margin of safety. Accuracy guaranteed within 5%.

<table>
<thead>
<tr>
<th>Type A</th>
<th>300 volts D. C.</th>
<th>Mf.</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B588</td>
<td>0.010</td>
<td>$0.60</td>
<td>$0.34</td>
<td></td>
</tr>
<tr>
<td>3B590</td>
<td>0.005</td>
<td>.40</td>
<td>.24</td>
<td></td>
</tr>
<tr>
<td>3B591</td>
<td>0.001</td>
<td>.10</td>
<td>.06</td>
<td></td>
</tr>
<tr>
<td>3B593</td>
<td>0.0025</td>
<td>.15</td>
<td>.09</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type B</th>
<th>1,000 volts D. C.</th>
<th>Mf.</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B604</td>
<td>0.005</td>
<td>$1.00</td>
<td>$0.60</td>
<td></td>
</tr>
<tr>
<td>3B606</td>
<td>0.0025</td>
<td>.50</td>
<td>.30</td>
<td></td>
</tr>
<tr>
<td>3B607</td>
<td>0.001</td>
<td>.20</td>
<td>.13</td>
<td></td>
</tr>
</tbody>
</table>

**Dubilier Condenser**

- Within 5% of rated capacity. Aluminium case makes it impervious to moisture. Provision is made for either machine screw or solder connections. Shpg. wt., 2 oz.

<table>
<thead>
<tr>
<th>Type 601</th>
<th>list, $15.00</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B412</td>
<td>.0025</td>
<td>$0.40</td>
</tr>
<tr>
<td>3B413</td>
<td>.0005</td>
<td>.40</td>
</tr>
<tr>
<td>3B414</td>
<td>.00025</td>
<td>.25</td>
</tr>
<tr>
<td>3B416</td>
<td>.001</td>
<td>.50</td>
</tr>
<tr>
<td>3B418</td>
<td>.0005</td>
<td>.25</td>
</tr>
</tbody>
</table>

**Dubilier Micadon**

- Type 601

<table>
<thead>
<tr>
<th>Type 601</th>
<th>list, $15.00</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B420</td>
<td>0.0005</td>
<td>$0.30</td>
</tr>
<tr>
<td>3B421</td>
<td>0.001</td>
<td>.30</td>
</tr>
<tr>
<td>3B422</td>
<td>0.00025</td>
<td>.15</td>
</tr>
</tbody>
</table>

**Dubilier Micadon**

- Type 604

<table>
<thead>
<tr>
<th>Type 604</th>
<th>list, $15.00</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B423</td>
<td>.0025</td>
<td>$0.50</td>
</tr>
<tr>
<td>3B424</td>
<td>.001</td>
<td>.20</td>
</tr>
<tr>
<td>3B425</td>
<td>.00025</td>
<td>.10</td>
</tr>
</tbody>
</table>

**Dubilier Micadon**

- 640G

<table>
<thead>
<tr>
<th>Type 604</th>
<th>list, $15.00</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B435</td>
<td>1</td>
<td>$2.00</td>
</tr>
<tr>
<td>3B436</td>
<td>2</td>
<td>2.76</td>
</tr>
<tr>
<td>3B437</td>
<td>4</td>
<td>4.60</td>
</tr>
</tbody>
</table>

### Tinytobe Condensers

- The smallest condensers made. So light that no other support than the bus wire to which they are attached is required. Case is 1/4 in. wide, 1-1/4 in. high, 2-1/2 in. thick. For use with vacuum tubes. Case makes negligible grid leak. Shpg. wt., 2 oz.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mf.</th>
<th>List</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B551</td>
<td>0.001</td>
<td>.35</td>
<td>.20</td>
</tr>
<tr>
<td>3B552</td>
<td>0.005</td>
<td>.35</td>
<td>.20</td>
</tr>
<tr>
<td>3B553</td>
<td>0.001</td>
<td>.10</td>
<td>.06</td>
</tr>
<tr>
<td>3B555</td>
<td>0.002</td>
<td>.20</td>
<td>.12</td>
</tr>
<tr>
<td>3B556</td>
<td>0.003</td>
<td>.20</td>
<td>.12</td>
</tr>
<tr>
<td>3B557</td>
<td>0.004</td>
<td>.20</td>
<td>.12</td>
</tr>
</tbody>
</table>

**Polymet Mica Condensers**

- Guaranteed within 5% of rated capacity. Aluminium case makes it impervious to moisture. Provision is made for either machine screw or solder connection. Shpg. wt., 2 oz.

<table>
<thead>
<tr>
<th>Type 601</th>
<th>list, $15.00</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B412</td>
<td>.0025</td>
<td>$0.40</td>
</tr>
<tr>
<td>3B413</td>
<td>.0005</td>
<td>.40</td>
</tr>
<tr>
<td>3B414</td>
<td>.00025</td>
<td>.25</td>
</tr>
<tr>
<td>3B416</td>
<td>.001</td>
<td>.50</td>
</tr>
<tr>
<td>3B418</td>
<td>.0005</td>
<td>.25</td>
</tr>
</tbody>
</table>

**Dubilier Condenser**

- 640G

<table>
<thead>
<tr>
<th>Type 604</th>
<th>list, $15.00</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B420</td>
<td>0.0005</td>
<td>$0.30</td>
</tr>
<tr>
<td>3B421</td>
<td>0.001</td>
<td>.30</td>
</tr>
<tr>
<td>3B422</td>
<td>0.00025</td>
<td>.15</td>
</tr>
</tbody>
</table>

**Dubilier Micadon**

- Type 601

<table>
<thead>
<tr>
<th>Type 601</th>
<th>list, $15.00</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B423</td>
<td>.0025</td>
<td>$0.50</td>
</tr>
<tr>
<td>3B424</td>
<td>.001</td>
<td>.20</td>
</tr>
<tr>
<td>3B425</td>
<td>.00025</td>
<td>.10</td>
</tr>
</tbody>
</table>

**Dubilier Micadon**

- Type 604

<table>
<thead>
<tr>
<th>Type 604</th>
<th>list, $15.00</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B435</td>
<td>1</td>
<td>$2.00</td>
</tr>
<tr>
<td>3B436</td>
<td>2</td>
<td>2.76</td>
</tr>
<tr>
<td>3B437</td>
<td>4</td>
<td>4.60</td>
</tr>
</tbody>
</table>

---

**We Pay Freight as Per Offer on Page 3**
Polymet Three Stage Resistance Amplifier

All parts of this kit are of highest quality. Resistors and condenser bases are of genuine molded bakelite, and all resistors and condensers are made and accurate. The kit includes the following: 3 resistor couplers, 1 condenser mount, 30 0.002 condensers, 1 meg. resistor, 1 grid leak, 1 grid leak mount, 3 incandescent bulbs, 30 pieces of instructions and diagrams. Shpg., wt., 6 oz.

383121—Without condenser. List, $1.85

Net $1.20

383122—With .00025 condenser. List, $1.20

Net $1.44

Eagle Variable Grid Leak

Type 383110—List price, $1.00

Net $ .88

A microammeter adjustable grid leak with a range from 0 to 50 megohms. Once set the instrument remains constant until rebuild. Shpg., wt., 2 oz.

Polymet Wire Wound Resistances

Nichrome resistance wire wound on a refractory tube coated with baked-on enamel. This construction gives a conductive non-arcing electrical conductor. Lynch resistors have a concentrated metal deposit on a glass core sealed within a glass tube. This construction gives a conductive non-arcing resistance absolutely noiseless and permanently accurate. Guaranteed not to develop noises or open circuit. Shpg., wt., 2 oz.

323148-25. .60 .45

323148-35. .76 .50

323148-45. .98 .65

323148-55. 1.20 .80

323148-65. 1.50 1.00

323148-75. 1.85 1.25

323148-85. 2.20 1.50

323148-95. 2.50 1.75

Allan Bradley Fixed Resistor

A fixed resistor, accurately calibrated, for resistance coupled amplifiers. "Dry" Eliminators, etc. Terminals, silver-plated metal parts. Shpg., wt., 2 oz.

323146-10. .50 .31

323146-20. .60 .35

323146-30. .76 .40

323146-40. 1.00 0.65

323146-50. 1.20 0.75

323146-60. 1.45 0.85

323146-70. 1.75 1.00

323146-80. 2.00 1.25

Polymet Grid Leaks

Tubular style. Resistant unit is metal, therefore permanent. Guaranteed within 5% of ratings. Shpg., wt., 2 oz.

323167-3 meg. List, $1.00

323167-7 meg. List, $1.75

323167-10 meg. List, $2.50

De Jur Wired Resistance Amplifier

A completely built resistance amplifier at a remarkably low price. Ensures perfect tone quality. All of the advantages of the new cone speakers are obtained. This assembled molded bakelite 3-stage amplifier includes all resistors and condensers. Shpg., wt., 2 lbs.

38946—Retail price $8.00. Your price, special...$4.59
The Latest, Most Popular Drum Dials

Silver Marshall

The New REMLER Beautiful—Efficient

Hammarlund

Unquestionably the finest dials on the market. Smoothest running dial we have seen. Spiral gear drive and efficient. No back lash, unlike many similar dials. 15 inch dial space divided into 320 divisions. Embossed dial indicator. Calibration strips on dial for logging. 6-volt lamp and sensitive control. Easily mounted. Will drive any standard condenser, single or in parallel, as required. Weight 2 lbs.

$1.76

Carol Fixed Condensers

Molded in bakelite to protect them from moisture. Not affected by climate or temperature Extensive experience the accuracy. Guaranteed within 10% of rated capacity. Tinned terminals for soldering. Shipping wt. 2 oz.

$2.65

Sprague Midget Condensers

High voltage midget condensers. All new types, or tapped at the necessary resistance specified for continuous operation at 1000 volts. For standard condenser, single or in parallel. Waterproof. 2 lbs.

$7.06

Mountings for Grid Leaks

13c

$12.98

Aerovox Tapped Resistances

The aerovox Tapped Pyrocone 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.

$90c

M. S. Fantail Jacks

Have solid brass frames heavily nickel plated. Tempered and capacity. 2 lbs. Listed. $12.98

$1.52

Veritas Resistors

Especially designed for B Eliminators, transmitting grid leaks and resistance and capacity. Capable of radiating 4 to 5 watts continuously without chance or deterioration. May be soldered directly into circuit or fits standard grid leak mounts.

$3.53

Tobe Tipon Grid Leak

A new resistor free from induction and capacity. 2 lbs. 2 oz. 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. Shipping wt. 2 oz.

$1.62

Other Diaps Appear On Page

THE BARRAWIX CO., CHICAGO, U. S. A.
Yaxley Phone Plugs

Next appearing plugs. Highly polished bakelite handles. Perfect contact and bakelite insulation prevents leak. Plugs are 7/16" in diameter. Shipping weight, 6 oz.

- 381510—No. 50. For one phone or speaker. List, 50c. Net,............. 30c
- 381511—No. 70. Duplex for two phones or speakers. List, 65c. Net,............. 36c

Cord Extension Jack

Connects extensions and cord or wire so that Speaker or Phone may be plugged at a remote point distant from the set. Shipping weight, 6 oz.

- 381522—No. 100. List, 75c. Net 381510-No. 70. Duplex for two
phones or speakers. List, 65c. Net,............. 36c

Pup Jack and Plug

Very small, easy to mount, phone tip is removable. Sold in boxes of 10. Shipping weight, 6 oz.

- 384451-416 Pup Jack, 1st. per 15c. Net 381522-No. 100. List, 75c.
Net 45c
- 384452-415 Pup Plug, 1st. per 10c. Net

Midget Jack and Plug

Serves same purposes as Pup Jacks and Plugs, except smaller. Mounts in 1/4" hole mounting. List, 60c. Net 381522-No. 100. List, 75c.
Net 45c
- 384453—No. 16 Midget Jack. 1st. list, 15c. Net 384454-15 Midget Plugs, each, 10c. Net

Yaxley Radio Jacks

These jacks are superior in design and quality—genuine bakelite used for insulation. Springs extra heavy phosphor bronze. Sliver contact points. Widely spaced terminals. Mounts on up to 113/32" panels. Shipping wt., 6 oz.

- 381249—No. 120. Double Circuit No. 1. List, 50c. Net 381216-Double Circuit No. 1. List 30c.
Net 15c
- 381248—No. 120. Double Circuit No. 2. List, 60c. Net 381249-No. 120. Double Circuit No. 1.
List, 50c. Net 36c
- 381243—Single Circuit No. 1. List, 40c. Net 381248-No. 120. Double Circuit No. 2. List, 60c.
Net 45c
- 381244—Single Circuit No. 2. List, 50c. Net 381243-No. 120. Single Circuit No. 1. List, 40c.
Net 42c

Yaxley Junior Jacks

For use where space is at a premium. Exceedingly fine finish. Nickel finish. Plug designed to use as phone tip plug on any printed circuit for battery connection. No. 110 is a complete with dial plate and knob. Shpg. wt., 10 oz.

- 382409—Open Circuit No. 1. List, 60c. Net 381249-No. 120. Double Circuit No. 1. List, 50c.
Net 30c
- 382447—Closed Circuit No. 2A. List, 60c. Net 382410—Closed Circuit No. 1. List, 50c. Net 36c
- 382412—Single Open Circuit Filament Control for the Kit Builder. List, $1.00. Net,............. 1.17

Yaxley Junior Jack Switch

For use in small space. Extends 113/4 inches behind panel. Mounts on up to 113/32" panel. Shipping wt., 6 oz.


Yaxley Midget Battery Switch

With these devices, unslightly battery wires are brought to set in one neat, compact cable, set is disengaged for cleaning. Cannot be inserted improperly. There you always have the correct connections. All have bakelite insulators or plugs. Easily soldered. Standard RCA colors. Equipped with tapped cable. Shipping weight, 6 oz.

- 384444—No. 12 Aerial Switch. List, 15c. Net 384447—No. 10 Aerial Switch. List,............. 20c

Yaxley Cable Connector

With these devices, unsightly battery wires are brought to set in one neat, compact cable, set is disengaged for cleaning. Cannot be inserted improperly. There you always have the correct connections. All have bakelite insulators or plugs. Easily soldered. Standard RCA colors. Equipped with tapped cable. Shipping weight, 6 oz.

- 382575—No. 670 for sets equipped with binding posts. Pin plug has 15 in. pigtail. List, $1.00. Net,............. $0.90
- 382576—No. 660 Subpanel mounting type for the Kit Builder. List, $3.00. Net,............. $1.77

Antenna and Ground Plate

Two tip jack mounted on plate with markers.

- 382567—List, $1.00. Net,............. 60c

Gang Plates

The above may be obtained on one plate as

- 382569—No. 205 Two-Way Two Pole. List, $1.18

Jack Nameplates

For the Kit Builder. Complete with dial plate and knob. Shpg. wt., 11/2 oz.

- 382572—No. 44 Single Pole, Single Throw. List, $0.44
- 382573—No. 70 Two-Way Two Pole, 60c. Net

Inductance Switches

13/4 inches diameter. Perforct contact. Complete with dial plate and knob. Shpg. wt., 1 oz.

- 383213—1 Stage. List,............. 25c
- 383212—2 Stage. List,............. 35c
- 383211—3 Stage. List,............. 45c

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3
CARTER QUALITY PRODUCTS

Carter Imp Rheostats

Small rheostat made. Diameter % inch. Connects to panel, one side to the Plus line and the other to the speaker, the third side to a separate control. Also for rheostats in the center of a loud speaker. Net price, 80c. List price, $1.00. 

Carter Hi-Ohm—Hi-Pot

A non-inductive, wire-protected, high resistance volume control. It is a solid construction to Hi-OHM except for a third terminal. List price, $1.00. 

Midget Potentiometer

List price, 75c. Net price, 44c. 

Carter Midget Rheostat Heavy Duty Type

Rheostat of the same general construction as MIDGET, only it is provided with % inch resistance strip. It is of rugged construction, small, compact and will dissipate 6 watts. Contact arm is of self-bearing construction. Shpg. wt., 0 oz. List price, 75c. Net price, 44c. 

Carter Battery Panel Switch

List price, 75c. Net price, 44c. 

Carter Lock Switch

Used in place of plug jacks where phone to speaker is desired. Net price, 6e. 

Carter Wall Receptacle Jacks

Wall plates for loud speaker, antenna, and telephone connections. Mounts on any standard outlet box or directly to wall. Shpg. wt., 0 oz. List price, 75c. Net price, 44c. 

Carter Imp "Short" Jack Switch

Has positive snap action. Externally % inch back of panel. Net price, 80c. List price, $1.00. 

Special Tip Jacks

List price, per pair . . . . . . 10c

Cutler-Hammer Toggle Switch

A flip of the finger puts it ON or OFF. Simple, quiet operating switch. Made in a mold. Neatly enclosed plate for panel provides definite indication. 

Heavy Duty Switch

List price, 60c. Net price, 36c. 

C-H. Radio-Lock Switch


Miniature Switches


Cord Tip Jack

Used in place of plug jacks when rapid changes from phone to speaker is desired. Shpg. wt., 0 oz. List price, 60c. Net price, 36c. 

Carter Hold-Tite

Net price, 6e. 

THE BARAWIK CO., CHICAGO, U.S.A.
**Bakelite Sockets**

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>384703</td>
<td>21c</td>
<td>20A Base...</td>
</tr>
<tr>
<td>384704</td>
<td>23c</td>
<td>100 Base...</td>
</tr>
<tr>
<td>384705</td>
<td>30c</td>
<td>C11 Base...</td>
</tr>
<tr>
<td>384619</td>
<td>18c</td>
<td>...</td>
</tr>
</tbody>
</table>


**Silver-Marshall Sockets**

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>384680</td>
<td>50c</td>
<td>List, No. 30c</td>
</tr>
<tr>
<td>384682</td>
<td>24c</td>
<td>For 3 sets...</td>
</tr>
</tbody>
</table>

312 TUBE SOCKET—Similar in all respects to 311 except designed for 5 prong UX and CY base A. C. tubes. Shpg. wt., 4 oz.

**Socket Spring Contacts**


**New Eby Socket**

384623—List price, 48c. Each.

Bakelite base. Three-point wiping contact. Shpg. wt., 4 oz.

**Metal Sub-Panel Sockets**

Make perfect job on metal mounting. Double wiping contacts mounted on bakelite spring insures perfect contact. Shpg. wt., 2 oz.

**Pilot Resistograd**

A non-inductive microphonic. Specially designed for panel mounting. Resistor with four radio uses. Allows for perfect graduation. Can be used for a 300,000-ohm (3 Megohms) one 34-inch hole mount. 384445—List price, 25c. Each.

**Clarostat**

A variable high resistance that provides a gradual, adjustable, reliable resistance over a range of from practically zero to five megohms or five ohms and carries a capacity of 20 watts. 384442—List price, 25c. Each. Requires a 34-inch hole for mounting.

**Power Type Clarostat**

Capacity 40 Watts. Power Type Clarostat—Filament control, 0-40 watts. 384446-List price, $1.50. Net...

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>384466</td>
<td>120c</td>
<td>Low—25—500 ohms.</td>
</tr>
<tr>
<td>384467</td>
<td>110c</td>
<td>Universal range.</td>
</tr>
</tbody>
</table>

**Benjamin**

Shock absorbing, non-microphonic. Tubing elements floats independently on base of four perfectly centered, polished, non-melting phosphor-bronze springs. Polished bakelite and stitch molded metal parts. Perfect connections. (Shipping wt., each 4 oz.)

**Buffalo Bakelite Socket**

384731—Each...14c for $1.00.

384738—Each...10 for $0.20.


**Amco Floating Socket**

381177—List, 1.00. Net, 58c.


**Amco Universal Socket**

381176—List, 50c. Net, 30c.


**Air-Gap Universal Sockets**

384626—List price, 60c. Net, 35c.

Air gap in sockets prevents socket capacity from being exceeded. Clear side wipe springs assure perfect contact. Makes my circuit more stable and sharpens the tuning. Shpg. wt., 4 oz.

**JOE MULTI-PLUG**

The standard connector

Instantly connects or disconnects all wires of a set. No chance for errors when turned out tubes. Can't be plugged in wrong. Has connections for ground, serial, A battery and B battery. Eight-foot cables permit wiring arrangement and permits batteries to be placed in any convenient location—in basement, closet, etc. Three types of sockets make possible a fine workmanship connecting job on any set.

**Multi-plug Complete for Sub-Pannel Mounting**

**Type FM**

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>381546</td>
<td>7 Contact: $2.25</td>
<td>...</td>
</tr>
<tr>
<td>381547</td>
<td>10 Contact: $2.50</td>
<td>...</td>
</tr>
<tr>
<td>381548</td>
<td>12 Contact: $2.85</td>
<td>...</td>
</tr>
</tbody>
</table>

**Multi-plug Complete for Binding Post Socket**

**Type BP**

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>381556</td>
<td>3 Contact: $2.00</td>
<td>...</td>
</tr>
<tr>
<td>381557</td>
<td>10 Contact: $2.50</td>
<td>...</td>
</tr>
<tr>
<td>381558</td>
<td>12 Contact: $2.75</td>
<td>...</td>
</tr>
</tbody>
</table>

**Multi-plug Complete for Type BM**

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>381559</td>
<td>7 Contact: $2.50</td>
<td>...</td>
</tr>
<tr>
<td>381560</td>
<td>10 Contact: $2.75</td>
<td>...</td>
</tr>
<tr>
<td>381561</td>
<td>12 Contact: $3.00</td>
<td>...</td>
</tr>
</tbody>
</table>

**Frost UX Socket**


<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>384700</td>
<td>12 Contact: $2.60</td>
<td>...</td>
</tr>
<tr>
<td>381562</td>
<td>12 Contact: $2.60</td>
<td>...</td>
</tr>
</tbody>
</table>

**Multi-plug Complete Only with Cable Attached**

**Type WB (Does not include plug)**

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>381563</td>
<td>7 Contact: $2.50</td>
<td>...</td>
</tr>
<tr>
<td>381564</td>
<td>10 Contact: $2.75</td>
<td>...</td>
</tr>
<tr>
<td>381565</td>
<td>12 Contact: $3.00</td>
<td>...</td>
</tr>
</tbody>
</table>

**Binding Post Contact**

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>381566</td>
<td>7 Contact: $2.50</td>
<td>...</td>
</tr>
<tr>
<td>381567</td>
<td>10 Contact: $2.75</td>
<td>...</td>
</tr>
<tr>
<td>381568</td>
<td>12 Contact: $3.00</td>
<td>...</td>
</tr>
</tbody>
</table>

**With Moulded Tube Holder**


With Moulded Tube Holder

**With Cushioned Tube**

384629—Benj. No. 9037 without base. For UX and CY tubes. Shpg. wt., 4 oz.

Ping Cushioned Socket

This cushioned tube socket prevents noises and crackling due to excess vibrations and disturbance. Recommended for portable sets.
New Daven Seven Tube Bass Note Circuit

Dial Control

$40.69 NET

The bass Note Circuit is designed around resistors, grid leaks and coupling condensers of the proper capacity. Eight binding posts in rear, and a moulded bakelite base. The 12 volt 4 x 10 in. All interior wiring is complete. Sockets fit all standard tubes. Equipped with “C” battery binding posts on each stage permitting proper biasing of each individual tube. Binding post terminals in rear. Moulded bakelite base, 6 oz. 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. Complete set of tubes. Fit all standard tubes. Equipped with “C” battery mounting. List, $8.00. Net, $4.70

Daven Filament Ballast

Eliminates the necessity of regulating the filament filaments to suit various power conditions. Accepts the maximum filament capacity of the set. Mounting. List, $3.50. Net, $2.10

Daven Resisto-Coupler

Fixed coupling condenser sealed in bakelite. Resistor and grid leak are included in the Daven Resisto-Coupler. Price, not including tubes. List, $5.00. Net, $2.40

Daven Mount

Baseplate bakelite. Nickel plated fittings. Shpg. wt., 4 oz. List, $1.00. Net, $0.75

Daven R. F. Coils

Solenoid type coils. Suitable for operation with Glastor and other hi-duty transformers. Designed for use in Daven Bass Note Circuit. List, $8.00. Net, $5.00

Daven Tubes

These tubes are manufactured in two types expressly for use in sets having Resistor-Coupled circuits. The type Mu-20 is recommended for detector and a much higher audio stage. For the last audio stage use type Mu-6. The 20A type is superior to most tubes of this type. List, $8.00. Net, $4.80
The Self Adjusting Rheostat


Potentiometers

<table>
<thead>
<tr>
<th>Value</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 ohms</td>
<td>$1.96</td>
</tr>
<tr>
<td>10 ohms</td>
<td>$2.40</td>
</tr>
<tr>
<td>20 ohms</td>
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<td>1000 ohms</td>
<td>$200.00</td>
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<tr>
<td>5000 ohms</td>
<td>$500.00</td>
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</tbody>
</table>

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.

Amperite 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 is so designed and arranged in the presence of changing in temperature as the "A" battery voltage changes. Thus the tube filament is constantly operated at maximum efficiency—for best volume and lowest distortion. Whenever Amperite is guaranteed to function perfectly and against any defect in construction. If found defective in any respect return for full value.

Brach-Stat

Automatic filament control of tubes. Eliminates hand rheostats. With it a complete.

Elkay Equalizer

With the entrance of this type into radio sets, tube control no longer inadequate for rapid changes to the various types. Elkay has developed control which equalizes the working voltage by inserting this devise into the tube circuit. With slight change in wiring tubes may be changed on short notice by merely changing the control.

C.R.L. Radiohm and Modulator

Non-inductive variable resistors. Smoothly variable from zero to maximum. Modulator is used in audio frequency circuits for output and volume control. Steel shell and knob. 1-hole mounting. 4-35, 1000 ohms.

Frost DeLuxe Rheostats

Nationally advertised. Carefully built, smooth operation and no noises.

<table>
<thead>
<tr>
<th>Type</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>$1.00</td>
</tr>
<tr>
<td>F</td>
<td>$1.50</td>
</tr>
<tr>
<td>G</td>
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<tr>
<td>H</td>
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<td>I</td>
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<td>J</td>
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<td>L</td>
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<td>M</td>
<td>$8.00</td>
</tr>
<tr>
<td>N</td>
<td>$9.00</td>
</tr>
</tbody>
</table>

DE LUXE RHEOSTATS


Bradleystats

Lately improved type for use with all suitable B Eliminators. Provides an unbroken, noiseless, stepless range of control. One hole panel mounting. Enclosed switch to cut off currently. Nickeled case. 100% inch thick.

Bradleymeters

The smooth, even precision control for balancing of the plate and grid circuits.

Bradleyhohm

Type E

An adjustable graphite disk resistor. Provides a wide steplles range of non-inductive resistors for B Eliminators. One hole mounting. Nickeled case. 100% inch thick.
<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eby Ensign Binding Posts</strong></td>
<td></td>
</tr>
<tr>
<td>These binding posts are the finest on the market. They are made of high-quality, nickel-plated hardware, designed for use in professional work.</td>
<td></td>
</tr>
</tbody>
</table>

| **Eby Binding Post Strip**                                                   |             |
| A strip of 7 posts in the most popular styles needed for assembling binding posts. |             |

| **X-L Binding Post Strip**                                                   |             |
| Have attached silver and black finish post marker. Connection is made by pressing down, inserting wire, removing it. It is firmly held. |             |

| **Switch Levers**                                                           |             |
| Per box of 100.                                                            |             |

| **Solderless Lugs**                                                         |             |
| Fits binding posts and contact points.                                      |             |

| **Radio Screw Assortment**                                                 |             |
| Net price: $0.50.                                                           |             |

| **Brass Screws**                                                            |             |
| Polished Nickel-Plated Head.                                                |             |

| **Round Head Machine Screws**                                               |             |
| Size: 3-32 thread to inch. Length, Gross                                   |             |

| **Flat Head Machine Screws**                                                |             |
| Size: 3-32 thread to inch. Length, Gross                                   |             |

| **Oval-Head Machine Screws**                                                |             |
| Proper thickness for radio work. Size 5 and 6.                              |             |

| **Oval-Head Wood Screws**                                                   |             |
| Proper thickness for radio work. Size 6 and 7.                              |             |

| **Flat Washers**                                                            |             |
| Made of brass nickel plated. Fits size 6 screws.                            |             |

| **Shakeproof Lugs and Washers**                                             |             |
| Similar to lug above, but smaller in size.                                |             |

---

**BRASS SCREWS**

**Polished Nickel-Plated Head**

The five styles of screws shown are all brass, polished nickel plated heads, especially made for radio set builders.

| **Round Head Machine Screws**                                               |             |
| Size: 3-32 thread to inch. Length, Gross                                   |             |

| **Flat Head Machine Screws**                                                |             |
| Size: 3-32 thread to inch. Length, Gross                                   |             |

| **Oval-Head Machine Screws**                                                |             |
| Proper thickness for radio work. Size 5 and 6.                              |             |

| **Oval-Head Wood Screws**                                                   |             |
| Proper thickness for radio work. Size 6 and 7.                              |             |

---

**Switch Contact**

Per box of 100.                                                            |             |

**Frehstoke Spring Grip Connectors**                                        |             |

---

**Spring Connector**                                                        |             |

**Post Markers**                                                            |             |

---

**BRASS SCREWS**

**Polished Nickel-Plated Head**

---

**Radio Screw Assortment**                                                 |             |
| Net price: $0.50.                                                           |             |

| **Brass Binding Posts**                                                    |             |
| Brass binding posts are of the highest priced manufacturers.               |             |

---

**Switch Lever Stop**                                                       |             |

**Flat Washers**                                                            |             |

**Shakeproof Lugs and Washers**                                             |             |
BUS BAR—WIRE—COIL FORMS—TUBING—SHIELDING

Rubber Covered Hook-Up Wire

Stranded, tinned copper wire covered with rubber to withstand severe environmental conditions. The rubber is not ordinarily used in radio. Best for short leads and ease of wiring. Five sizes. 25-foot coils. Net each...

Bakelite Low Loss Coil Supports

The bakelite tubing and strips listed here can be assembled together to make low loss coils. This supports on which such loss windings can be constructed. All tubing is 3/16 inch thick. Diameter dimension given is inside diameter. Two pieces

Bakelite Tubing

Genuine bakelite tubing. Pieces 3 in. long. For windings very strong. Will not warp nor stretch. Natural color. Diameter given is inside.

Litz Wire for Loops

Consists of 20 strands of No. 18 wire. Made up of very fine strands of copper. Excellent for making loops. Each, 10c; Lots of ten, 60c.

Litz Wire for Coils

Consists of 60 strands No. 20 tinned stiff solid cotton serving and smooth. Covered with high insulation. Threaded with 104 threads. Made of Bakelite. Diam., 4 in. Thick, 1/4 in. length...

Copper Foil

A transparent celluloid base impregnated with high grade shellac. Used for covering insulating and stripping panels or cabinets. AO.

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 easily formed or cut. Made of zinc with polished surface. Size 1/8 inch thick...

All Kinds of Magnet Wire

For making practically every kind of radio and experimental apparatus. Used for repairing motors or other electrical apparatus. One piece only on a spool. Sizes are for 8-ounce spools unless otherwise stated.

Radio Shellac Compound

For covering cabinets, base boards, etc. Also used for impregnating winding wire for coils. Recommended in preference for this purpose. 2% oz. bottle...

Radio Insulating Cement

A transparent celluloid base made for insulating and impregnating wires and coils. Makes a spider web, honeycomb, etc., coils self-supporting. No capacity or absorption effects. No. 2 bottle...

Spider—Web Coil Form

Fiber. Diam. 6 inches, 13 spools...

Wood Winding Form

For winding spider webs. Diameter 6 inches. Each...

All Kinds of Magnet Wire

Foot per pound. D.C.C. Each. 

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3
Goodrich Hard Rubber Panels

Acknowledged by those who know to be the best hard rubber panels made for radio purposes, they cost no more than inferiormakes.

A special insulation for radio purposes. This panel is used by set builders and engineers. Wonderful smooth high polished finish made by moisture gathering on surface of ordinary insulation. Made of special compound having rubber base. The same may be used or cut without chipping. Will not warp. A perfect insulator for radio use. Smooth, clean edges. Thickness, 3/16 in. Shown in size 14.

BLACK

Size Mahogany

No. Each Inches No. Each
385618 5/8 7x10 $3.62
385619 7/8 7x12 $3.88
385620 1 7x14 $4.07
385621 1 1/4 7x18 $5.14
385622 1 1/2 7x22 $5.97
385623 1 3/4 7x26 $7.98
385624 2 7x30 $11.90

Florentine (Frieze) Panels

A new and distinctive panel of rich, attractive appearance and improved service greatly adds to the appearance or any set—indeed with any cabinet. Made of best quality hard rubber compound, one side polished, finished in florentine (cracked) design. Shows no finger smudge. A real low-loss panel easy to drill and engrave. Thickness, 3/4 in. Average shipping wt., 3 lbs. Per size panel.

No. Each Inches No. Each
385734 1 3x20 $4.15
385735 1 1/4 4x24 $5.70
385736 1 1/2 5x28 $7.85
385737 1 3/4 6x32 $10.25

Self-Supporting Brackets

Assemble sub-panel firmly to front panel. Depth, 1 in. Takes sub-panels up to 8 in. deep. 2 in. high, plenty of room beneath panel for wiring, resistance, etc. Nickel finish. Shipping wt., 1 oz. or less. Per pair, List, 70c. Net. 42c

Adjustable Brackets

Can be adapted to practically any requirements. Fits any slope. Adjustable to 180°. Adjustable bolts to bottom of cabinet. Adjustable length. Made of nickel plated metal. Ship. wt., 1 lb. 384116—Per pair, List, $1.25. Net. 77c

Panel Mounting Brackets

Cast aluminum brackets for mounting sub-base and panel, 7 inch high panels. Depth, 7 inches. Ship. wt., 1 lb. 385720—Pair, List, $1.50. Net. 89c

Bakelite Brackets

Genuine bakelite brackets to hold up to 6 panels. 1/2 in. tolerance. 8 1/2 inches long, 2 inches wide and 3/4 inch thick. Have no effect on circuit. Ship. wt., 1 oz. or less. 385723—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 bakellite 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 left. Av. ship. wt., 3 lb. 1/4 inch thick. Per size panel.

No. Each Inches No. Each
384921 .75 6x10 $4.62
384922 1 3x12 $6.62
384924 1.37 7x14 $7.16

Supplied in 31/2" width, 5/8" in. height difference.

Walnut Finish

Same as above but rich figured Walnut finish. Av. ship. wt., 3 1/2 lbs. Per size panel.

No. Each Inches No. Each
384928 1.75 6x10 $6.39
384929 1.75 7x12 $7.69
384930 1.75 7x14 $8.59
384931 1.75 7x16 $9.79
384932 1.75 7x18 $10.89
384933 1.75 7x20 $11.99
384934 1.75 7x22 $13.09

Bakelite or Phenoline Sub-Panels

Sizes cut especially for use as sub-panels. Av. ship. wt., 2 lbs. Per size panel.

No. Each Inches No. Each
385613 3x17 $2.52
385614 3x18 $2.80
385615 3x19 $3.08
385616 3x20 $3.36
385617 3x21 $3.64
385618 3x22 $3.92
385619 3x23 $4.20
385620 3x24 $4.47
385621 3x25 $4.75
385622 3x26 $5.03
385623 3x27 $5.31
385624 3x28 $5.59
385625 3x29 $5.87

Engraved Panels for Circuits

See page 108 for drilled engraved panels for popular circuits.

Special Size Panels

We can supply bakelite or phenoline panels in any size or thickness, either black marqueterie or walnut finish. Request value of panel with order. Special size panels cannot be exchanged. 1/4 inch thick. Per sq. inch. No. 1 1/4 inch thick. Per sq. inch. No. 1 1/8 inch thick. Per sq. inch. No. 1 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. Please, per letter or figure. Minimum charge per panel $0.04. Panel Engraving

Base Boards

A complete set of transfers in neat white lettering for mounting connections, dials, like real machine engravings, contrasts neatly on black or walnut mahogany panels. Plenty of titles for the largest set. Lettering at right is actual size. Ship. wt., 1 lb. 385701—Per set, List, 50c. Net. 19c

Riglone 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. Almost either plain or one tone with a darker border separated from the body of the panel by beautiful Marqueterie Inlay. Panel thickness 1/2 in. Av. ship. wt., 3 lbs.

Rich Grain Walnut Face and Back

Size List Each
385800 7x15 $2.52 $1.64
385801 7x16 $2.69 $1.76
385802 7x17 $2.86 $1.88
385803 7x18 $3.00 $2.00
385804 7x19 $3.14 $2.12
385805 7x20 $3.20 $2.24

Inlaid Walnut Two-Toned with Marqueterie Inlay

Size List Each
385806 7x15 $6.52 $4.19
385807 7x16 $6.69 $4.31
385808 7x17 $6.86 $4.43
385809 7x18 $7.02 $4.55
385810 7x19 $7.19 $4.67
385811 7x20 $7.36 $4.79

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 off. Thickness about 1/8 in. Av. ship. wt., 3 lbs.

Size List Each
385515 7x15 $1.80 $0.99
385516 7x16 $2.38 $1.47
385517 7x17 $3.00 $2.16
385518 7x18 $3.64 $2.52
385519 7x19 $4.20 $3.00
385520 7x20 $4.75 $3.18

Panel Engravings

V E E D E E Panel Engravings

THE BARAWIK CO. CHICAGO, U. S. A.
Bodine De Luxe Loops

Turning radius only 6 inches. Ideal for building into large consoles. Solid walnut, or colored finish. Copper wires, stranded with large phosphor bronze wires, silk covered. High resistance wire, 95c high; 5 taps. List, $12.00. Each.

Qualitone Loop Collapsible

Woodwork is solid walnut, rubbed finish, all metal parts nickel-plated. Wire spacers are of best insulating material and reducing losses. Finest grade silk-covered stranded wire. Long flexing leads with 'phone tips. Exclusive thumbscrew. Can be mounted in base. Non-metal parts gold plated and black. Made especially for Superhet and Trophy circuits. Takes less spce to set up, therefore it is a definite Loop for the home. Has good volume and is very directional. Built especially for Superhet circuits. The same material and construction as the Master. Wound in single turns with 3 Taps. When set up measures 10 1/2 x 14 x 13 inches. Wiring into large consoles. This size is used especially in laboratories.

Koroch Loop

This loop has many exclusive features. Has 9 tap switch panel. Compass in base with dial for tuning. Collapsible. Size: 5 1/2 feet wide, 4 1/2 feet long, 1 foot thick. Weight, 5 lbs. Open, 30 inches. Wire, stranded wire of highest resistance, 3/16 inch. Weight, 3 lbs.

JUNIOR MODEL

Same loop as above except without compass, and 2 1/2 feet wide, 7/8 high, 5 taps. Net, $5.88. List, price, $12.50. Net, $7.35.

Frost Loop Plug and Jack

Fitted in place of cabinet and panel support. Plugs connected to loop leads. Supports loop when mounted in base.

Signal Cabinet Loop

Supported with bracket of cast aluminum which pivots to cabinet. Solid or colored finish. Made of genuine walnut and finished with natural lacquer finish. Three arms, also three taps. Wound in single turns. Made especially for Superhet and Trophy circuits. Takes less space to revolve, therefore it is a definite Loop for the home. Has good volume and is very directional. Built especially for Superhet circuits. The same material used in the construction as the Master. Wound in single turns with 3 Taps. When set up measures 10 1/2 x 14 x 13 inches. Shipping weight, 5 lbs.

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 static charges. This insures good earth connection at all times, with lowest resistance. 20 ft. of heavy enamelled wire is spot welded to ground making a direct connection to set. 12 inches long, 4 inches wide at base. Shpg. wt., 1 lbs. Shp. wt., 7 lbs. $3.20

382638—List, $5.60. Net... $3.20

Spring Coil Antenna

Stand-off Insulators

Made of porcelain, stacked in cartons with 2 brass screws and leatherheads for use as a cushioning in insulators. 6-in. size has additional brass holder, 2 parts put together as illustrated. Shpg. wt., 6 oz.

382614—4 in. Net... 12 c.

Wall Mounting Insulators

382603—with 4-in. lead-in screw. Each... 4 c
Dozen... 406
382604—with 4-in. lead-in screw. Each... 6 c
Dozen... 618

For attaching lead-in or ground wire to posts or side of building. Shpg. wt., 4 oz.

382622—22% in. long. Each... 4 c
Dozen... 376
382623—2-in. long. Each... 10 c
Dozen... 586
382624—2% in. long. Two for... 17 c
Shpg. wt., 1 lb.

Porcelain Aerial Insulators

382625—2% in. long. Each... 3 c
Dozen... 296
382626—2-in. long. Each... 10 c
Dozen... 618

Glass Insulators

Special tempered glass unaffected by heat or cold or other atmospheric conditions. Approximately 8% in. diameters. The screws bore to a positive contact with pipe. Insulated copper wire. Used for lead-in and ground wire. 382615—List, 25 c. Net... 17 c

Baby Insulators

382602—Per box of 10... 1 c
For suspending wires, especially from wires on walls. Supplied with a spring and brass. Adjustable nuts. Shpg. wt., 1 lb.

Ekkio Ground Clamp

382605—List... 25 c
Net... 15 c
Made of brass, for positive contact even over powdery or painted surfaces. For pipes up to 1% inches. Shpg. wt., 6 oz.

Nifty Ground Clamp

Made of tin, copper and brass. Adjustable from % to 1%-4 in. diameters. The screws bore to a positive contact with pipe. Shpg. wt., 4 oz.

382637—Lot, 10 c
Net... 10 c

Bell Wire

382613—50-ft. coil... 25 c
Flexible copper wire insulated with paraflined cotton braid. Shpg. wt., 1 lb.

Antenna Wire

(See illustration)

Full 100 ft. coils of best grade copper wire. Shpg. wt., 2% lb.

Bare Copper Wire

382625—7 strands of No. 22. 37 c
382628—7 strands of No. 24. 25 c
382621—Light No. 24. 24 c
382630—7 strands of No. 24. Each... 33 c

Enameled Copper Wire

Highest quality enamel. Will not chip or peel. 100 ft. 74 c

Lead-In Wire

Insulated copper wire. Used for lead-in and ground wire. 382612—Single wire. Outer waterproof black cotton braid. Wire size No. 14. 50-ft. coils. Each... 42 c
382617—100 feet... 74 c

Lead-In Insulators

382608—For 2 in or smaller wires. Less than 4 c
382609—For % in or smaller wires. Less than 5 c

Lead-In R. M.

382610—List, 61 c
Net... 56 c
Made of porcelain, hard rubber 7% in. in. hol. Securely locked by two adjustable nuts. Shpg. wt., 10 oz.

Flexible Insulated Wire Cord

Consists of flexible stranded size 18 copper wire with rubber insulated screw-in type which is impregnated with heat tan colored cotton braid. Wire size No. 14. 50-ft. coils. Each... 42 c
382617—100 feet... 74 c

Porcelain Strain Insulator

382627—Doean... 65 c
Designed especially for insulating extra long aerial or wire pm. Shpg. wt., dozen, 4 lbs.

Porcelain Aerial Insulators

382606—with 3-in. lead-in screw. Each... 5 c
Dozen... 396

De Luxe Kit

Contains—
100 ft. special 7 strand (about 7-22) copper aerial wire; 40 ft. special 7 strand lead-in strip; 1 quick adjusting ground clamp; 3 porcelain nail knobs; 2 galvanized screw eyes; 25 ft. flexible rubber covered hook-up wire. Shpg. wt., 6 lbs. $5.18

382632—Complete Kit. List, $5.60. Net... $5.18

Braided Ribbon Antenna


382608—100-ft. coil

382635—Electrodried rubber impregnated tape, wide tinned copper strands. Soldered F. A. B. E. L. $5.60. Panel, 10x25 in.

Popular Panels

Panels are black Bakelite with gold decoration, white and gold engraving. Av. shpg. wt., 5 lbs.

385671—Front, Panel, 7x21 in... $5.50 $3.19
Camfield—Super Selective Nine
385696—Front Panel, 10x20 in... 7.50 4.50
Hammond Roberts Hi-Q
386673—Front Panel, 7x21 in... $5.50 $3.19
Improved Remier 45 K. C.
386730—Front Panel, 7x21 in... 7.25 4.45

Regular Kit

Contains—
100 ft. coil special 7 strand aerial wire; 50 ft. rubber covered hook-up wire. 75 c

382631—Complete Kit. List, $1.75. Net... $1.50

World's Record Super Ten
385692—Front Panel, 7x21 in... 7.25 4.45
385693—Front Panel, 10x20 in... 8.00 4.65

World's Record Super Eight
385690—Front Panel, 7x21 in... 6.00 3.49

Victor Tone Universal, 8 Tube
386675—Front Panel, 7x21 in... 6.50 3.75

Popular Panels

386674—Front Panel 10x20 in... 7.75 4.80

De Luxe Kit

Contains—
100 ft. 7-22 (seven strand) aerial wire; 3 porcelain ground clamps; 3 porcelain nail knobs; 3 galvanized screw eyes; 1 flexible rubber covered hook-up wire; 3 porcelain screw eyes. Panel, 10x25 in. $15.25

382633—Complete Kit. List, $4.65. Net... $2.25

AERIAL KITS—BIGGEST VALUES

De Luxe Kit

382631—Complete Kit. List, $1.75. Net... $1.50

World's Record Super Eight
385692—Front Panel, 7x21 in... 7.25 4.45
385693—Front Panel, 10x20 in... 8.00 4.65

World's Record Super Ten
385690—Front Panel, 7x21 in... 6.00 3.49

Victor Tone Universal, 8 Tube
386675—Front Panel, 7x21 in... 6.50 3.75

Popular Panels

386674—Front Panel 10x20 in... 7.75 4.80

De Luxe Kit

Contains—
100 ft. 7-22 (seven strand) aerial wire; 3 porcelain ground clamps; 3 porcelain nail bolts; 3 galvanized screw eyes; 1 flexible rubber covered hook-up wire; 3 porcelain screw eyes. Panel, 8 lbs. $15.25

382633—Complete Kit. List, $4.65. Net... $2.25

AERIAL KITS—BIGGEST VALUES

Regular Kit

Contains—
100 ft. coil special 7 strand aerial wire; 40 ft. rubber covered lead-in strip; 1 quick adjusting ground clamp; 3 porcelain nail knobs; 2 galvanized screw eyes; 25 ft. flexible rubber covered hook-up wire. No skimping in this kit. Shipping wt., 3 lbs.

382631—Complete Kit. List, $1.75. Net... $1.50

World's Record Super Ten
385692—Front Panel, 7x21 in... 7.25 4.45
385693—Front Panel, 10x20 in... 8.00 4.65

World's Record Super Eight
385690—Front Panel, 7x21 in... 6.00 3.49

Victor Tone Universal, 8 Tube
386675—Front Panel, 7x21 in... 6.50 3.75

Popular Panels

386674—Front Panel 10x20 in... 7.75 4.80

De Luxe Kit

Contains—
100 ft. 7-22 (seven strand) aerial wire; 50 ft. rubber covered hook-up wire. 75 c

382631—Complete Kit. List, $1.75. Net... $1.50

THE BARAWIK CO., CHICAGO, U. S. A.
Effarsee Antenna
The Ideal Indoor Aerial

Looks like a magnificent tapestry. A 3-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 100% of static. Greater selectivity and clarity. Ease of installation from neighboring electric wires. Has no lightning hazard. Waterproof. For use with any radio receiver requiring an antenna. SIZE: 4 ft. wide, 7 ft. high. Shpg. wt., 5 lbs.

382776—List price, $9.50. Net, wholesale $5.60.
382775—Small size, 6 ft. long, 3 ft. wide, plain (without pleats). Net, $2.50. 

Antenna Mast

382739—Style A. Made of genuine bakelite. For outdoor installation. Absolutely weatherproof and non-watertight. N01 insurance policy against lightning. Shipping wt., 1 lb.
382722—List, $1.50. Net, $0.89.

Collapsible Steel Aerial Mast

Made of tubular steel sectional telescoping one within the other, for convenience in handling and erecting. Clamp locks mast at length desired. Fits any roof of any slope. Extended length 7 ft. Collapsed length 4 ft. Shipping wt., 1 lb. List, $2.50. 
Net, $1.45
382734—Extended length 10 ft. Collapsed length 5 ft. List, $3.50.

Porcelain Base

Copper contacts and blades. Shpg. wt., 10 oz. Single throw, $1.25.
382715—Single pole. Double throw.
382716—Double pole.

Jewel Lightning Arrester

382718—List, 60c. Net, each 36c.

Echo Tape Indoor Aerial

268363—Roll, list, 60c. 
382700—List, $1.50. Net, 89c.
268364—100-ft roll, list, 90c. Net...

Dubilier Light Socket Aerial

Consists of 100 feet enamelled aerial wire in compact cage unit. 100% insulated with moulded ledge, against wall anywhere OUTSIDE. Complete with bracket—nothing else to buy. Easy to install. Bakelite frames. Comes complete including pole and tubes. For any antenna. Stands 6 ft. high when erected. Shipping wt., 5 lbs.

3132710—Set of 6 booters. Shipping wt., 1 lb. List, $1.47.
3132700—List, $1.60. Net... 30c
3132738—Style A. Made of genuine bakelite. For outdoor installation. Absolutely waterproof and non-watertight. $100 insurance policy against lightning. Shipping wt., 1 lb.
382722—List, $1.50. Net, $0.89.
382723—List, $2.00. Net...

Antenna Spring Tightener

Spring with 2 porcelain strain insulators on either end. Takes slack in aerial. Shipping wt., 1 lb.
382702—Each...

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 non-directional, clarifies tone, increases selectivity, minimizes static, improves summer reception. Sheds ice and snow. Not affected by heat. Easy to install. Complete package of 10 ft. of No. 14 copper wire is built into ball. No rod included. Uses 1/4-inch iron pipe. Shipping wt., 6 lbs.
382725—Retail price, $10.00. Net, wholesale, single lots. $6.53. Lots of 10... $6.08.
382726—Base to hold pipe used with antenna to roof. Retail... $3.50. Net price...

Super-Ball Accessory Kit

Consists of 50 ft. lead-in B. C. wire No. 14, 50 ft. Copper guide wire, Ground Clamp, King lead-in, ball knobs, screw eyes, and 10 ft. of pipe. Shipping wt., 6 lbs.
382727—Each...

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3
Diallite Lamp

Supplies just the right amount of illumination for easy dial adjustment and with white 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 base. Heats as illustrated positively. Weighted base. Can be placed on any set. Attractive gold finish. This is a real live item. Even set owner wants. Easy to use, portable with ample wire connection. It makes an ideal trouble finder.

Microphone Button

383208 — Retail price, $1.00.

71c

Vimco Radio Light

This is a very beautiful light for use on the radio. It sets on top of the cabinet and switches on or off in base. Heats as illustrated positively. Weighted base. Can be placed on any set. Attractive gold finish. This is a real live item. Even set owner wants. Easy to use, portable with ample wire connection. It makes an ideal trouble finder.

Time Lite Electric Time Switch

A splendid quality, beautiful clock fitted with a relay or storage switch device which shuts off or turns on your radio set at any moment you desire. No harm if you forget to shut off your set if the light goes off. Pretty bronze finish case with 30-hour reliable movement. Two radio regulator hands, one for tuning on set, one for shutting off. Easily connected, only one wire needed. Uses no current.

Electric Panel Clock

Operates Per Set’s Batteries

An electrically operated clock that may be incorporated in a radio set and runs on either 6 volt batteries. The clock consists of two units which are assembled in a single case, the amount of current used is negligible and the clock face is 2 inches in diameter. The dial has a black background, and one hand. Luminous dial is visible in the dark. The barrel is 1 1/2 inches deep.

Crystal Set Kit

Build It Yourself

Here is the ideal kit for the beginner with limited means or who lives within a short radius of a broadcasting station. It gives the builder good entertainment and a small cost and gives him an insight into the fundamentals of radio. It makes an ideal present 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 15 miles. Ship. wt., 4 lbs.

Crystal Set

Diallite Lamp

Set of Bearings for Tuning Coils

Self-alternating assuring positive control. Set includes two bearings with bissoring and rear shafts. Adjustable to meet practically any size requirement.

Microphone Button

383208 — Retail price, $1.00.

71c

Crystal Detector

383208 — Each, 28c

Crystals enclosed are tweeter type. Use for telephone and repair work. For dies for telephones, for stethoscopes, amplifiers, etc. Offers every radio fan the means of operating his own powerful speech amplifier. Instruction sheet included. 1 oz.

Broadcast Tested Crystals

383381 — List price, 35c.

10 each.

Ten for 60c

Broadcast Carbondurem Detector

38316 — List price, $1.50

96c

A detector using a specially selected carbondurem crystal under pressure and an ordinary broadcast listener. This freezes permanent solid contacts and dependable operation. Not recommended for reflex or other types of circuits. Snip. wt., 8 oz.

Carbocarbonm Stabilizing Detector Unit

38316 — Each, 24c

A highly efficient stabilizing device. Adjusting controls for resistance to match detector. Controls self-protection in r.f. Carbondurem operation at peak of receiver. Provides greater selectivity, increased sensitivity, cleaner output. A small flash-light battery is all it needs. Complete with Carbocarbonm, 1 oz. 1 1/2 g. Each List price, 85c.

Test Buzzers

383289 — Each, 85c

Watch case buzzer, polished nickel finish, Diam. 1/16 in. Snip. wt., 5 oz.

Test Buzzer Push Button

383289 — Each, 85c

A small push button with pearl or colored bead and inch hole by small spring clips. Snip. wt., 2 oz.
### Jewell Radio Meters

**Pattern 135**
A compact instrument with 2 in. case and flange diam. 2 1/4 in. Finest coil type movement, fully jeweled. Black scale on silver background. Shp. wt., 2 lbs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Price List</th>
<th>Price Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>381900</td>
<td>0-5 volts</td>
<td>$7.00</td>
<td>$4.46</td>
</tr>
<tr>
<td>381901</td>
<td>0-10 volts</td>
<td>$7.50</td>
<td>$4.88</td>
</tr>
<tr>
<td>381902</td>
<td>0-25 volts</td>
<td>$8.00</td>
<td>$5.10</td>
</tr>
<tr>
<td>381903</td>
<td>0-50 volts</td>
<td>$9.00</td>
<td>$5.46</td>
</tr>
<tr>
<td>381906</td>
<td>0-75-150 volts</td>
<td>$8.50</td>
<td>$5.42</td>
</tr>
</tbody>
</table>

**Switch Type 140**
Double range, 2 inch body, 2 1/4 inch flange. Shipping wt., 2 lbs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Price List</th>
<th>Price Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>382008</td>
<td>0-5-100 volts</td>
<td>$9.00</td>
<td>$5.74</td>
</tr>
<tr>
<td>382009</td>
<td>0-7.5-150 volts</td>
<td>$9.00</td>
<td>$5.74</td>
</tr>
</tbody>
</table>

**Pin-Jack Pattern 135-A**
2-inch instrument for plugging into Radiola, Victor, Brunswick and Bosch sets for filament voltages only. 0-25, 0-50, 0-100, 0-200, 0-500, 0-1000, 0-1500 volts. Shp. wt., 1 1/2 lbs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Price List</th>
<th>Price Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>381913</td>
<td>0-5 volts</td>
<td>$7.50</td>
<td>$4.78</td>
</tr>
<tr>
<td>381919</td>
<td>0-7 volts</td>
<td>$7.50</td>
<td>$4.78</td>
</tr>
</tbody>
</table>

**Portable No. 135-C**

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Price List</th>
<th>Price Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>382011</td>
<td>0-75-150 volts</td>
<td>$10.00</td>
<td>$6.37</td>
</tr>
</tbody>
</table>

**No. 98 Portable Voltmeter**
Designed to make battery testing easy. Supplied with three 18 in. colored leads. Two scales, 0-10, 0-50 volts. Shp. wt., 6 lbs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Price List</th>
<th>Price Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>381921</td>
<td>0-5 volts</td>
<td>$7.50</td>
<td>$4.78</td>
</tr>
<tr>
<td>381920</td>
<td>0-7 volts</td>
<td>$7.50</td>
<td>$4.78</td>
</tr>
</tbody>
</table>

**No. 116 Eliminator Voltmeter**
For checking "B" eliminator voltages similar to No. 19 except that its internal resistance is 800 ohms per volt. Ranges 0-50-250 volts.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Price List</th>
<th>Price Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>381916</td>
<td>List</td>
<td>$25.00</td>
<td>$19.35</td>
</tr>
</tbody>
</table>

**No. 55 Combination Meters**

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Price List</th>
<th>Price Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>381921</td>
<td>3 Circuit 0-8 volt</td>
<td>$10.00</td>
<td></td>
</tr>
<tr>
<td>381922</td>
<td>5 Circuit 0-10-100 volt</td>
<td>$12.50</td>
<td></td>
</tr>
<tr>
<td>381934</td>
<td>0-8-80-160 volts</td>
<td>$12.50</td>
<td></td>
</tr>
</tbody>
</table>

### 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 apparatus. Narrow face panel type with silver etched dials. Nickel plated body 2 in. diam.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Price List</th>
<th>Price Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>381941</td>
<td>0-3 amp</td>
<td>$1.50</td>
<td>$0.90</td>
</tr>
<tr>
<td>381942</td>
<td>0-8 volts</td>
<td>$3.00</td>
<td>$1.79</td>
</tr>
<tr>
<td>381949</td>
<td>0-6 volts</td>
<td>$3.00</td>
<td>$1.79</td>
</tr>
<tr>
<td>381952</td>
<td>0-1 milliamperes</td>
<td>$1.00</td>
<td></td>
</tr>
<tr>
<td>381953</td>
<td>0-100 milliamperes</td>
<td>$3.00</td>
<td></td>
</tr>
<tr>
<td>381955</td>
<td>0-7.5-150 with push button</td>
<td>$5.00</td>
<td>$2.95</td>
</tr>
</tbody>
</table>

### Sterling Pin-Jack Voltmeter
High resistance voltmeter for plugging into Radiola No. 25 and No. 28 and similar sets. Full nickel finish, silver dial, black figures. Shp. wt., 1 1/2 lbs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Price List</th>
<th>Price Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>381935</td>
<td>0-6 volts</td>
<td>$8.00</td>
<td>$4.88</td>
</tr>
</tbody>
</table>

### Readite Panel Meters
Well made meters that check your circuits accurately. Case diam. 2 1/4 in. Rine 2 1/4 in. Finish, all nickel. Dials are metal silvered. Black etched finish. Shp. wt., 1 1/2 lbs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Price List</th>
<th>Price Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>381955</td>
<td>0 volts</td>
<td>$1.00</td>
<td>$0.60</td>
</tr>
<tr>
<td>381956</td>
<td>0-100 volts</td>
<td>$1.50</td>
<td>$0.75</td>
</tr>
<tr>
<td>381957</td>
<td>0-100 milliamperes</td>
<td>$1.00</td>
<td></td>
</tr>
<tr>
<td>381965</td>
<td>0-25 milliamperes</td>
<td>$1.00</td>
<td></td>
</tr>
<tr>
<td>381966</td>
<td>0-50 milliamperes</td>
<td>$1.00</td>
<td></td>
</tr>
</tbody>
</table>

### Jewell Meters No. 53
For laboratory and general use. Flange type, 2 1/2 inch body. Finished in black enamel. Shp. wt., 2 lbs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Price List</th>
<th>Price Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>381939</td>
<td>0-10 volts</td>
<td>$1.00</td>
<td></td>
</tr>
<tr>
<td>381938</td>
<td>0-5 volts</td>
<td>$1.00</td>
<td></td>
</tr>
</tbody>
</table>

### Eliminator Voltmeter
Model 498
A double range meter with resistance of 1,000 ohms per volt. For testing battery substitutes. Pair of 30 inch cables supplied.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Price List</th>
<th>Price Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>382018</td>
<td>List</td>
<td>$28.00</td>
<td>$20.58</td>
</tr>
<tr>
<td>381992</td>
<td>0-60-250 volts</td>
<td>$28.00</td>
<td>$20.58</td>
</tr>
</tbody>
</table>

### New A C Voltmeters
A new meter from Jewell. No. 417 matches the 506 model. No. 476 matches the 406 model. Exceptionally high resistance, low power consumption, excellent damping. For testing commercial frequency. Shp. wt., 1 1/4 lbs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Price List</th>
<th>Price Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>381993</td>
<td>0-5 volts</td>
<td>$8.00</td>
<td>$5.08</td>
</tr>
<tr>
<td>381994</td>
<td>0-10 volts</td>
<td>$8.00</td>
<td>$5.08</td>
</tr>
<tr>
<td>381995</td>
<td>0-15 volts</td>
<td>$8.00</td>
<td>$5.08</td>
</tr>
</tbody>
</table>

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3
American Beauty Soldering Iron

A famous brand that has stood the test of time. Extremely free from power failures and修订版 accidental 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
384002 4 oz. 1/16 in. 1 7/8 in. $1.80 1.75
384003 5 oz. 1/16 in. 2 1/8 in. 2.75 2.70
384004 6 oz. 1/16 in. 3 1/8 in. 3.75 3.70
384005 10 oz. 1/16 in. 5 in. 4.75 4.70
384006 Extra Tips 1/16 in. size. List $0.60. Net. .45
384007 Extra Tips 1/16 in. size. List $1.20. Net. .80

Simplex Alcohol Torch

Dependable for real work. Generates its own pressure.

384000—List price, $7.50. Shpg. wt. 12 oz.

1.95

Automatic Blow Torch

384000—List price, $7.50. Shpg. wt. 12 oz.

1.95

Super Blow Torch

384000—List price, $7.50. Shpg. wt. 12 oz.

1.95

Coil Winder:

Winds any size or type of the new Self-Supporting coil. Turn ratio may be varied, placing primary between secondary windings or taking two separate windings for grid and plate circuit, etc. Makes perfect 50 ohm coil in less than minute. Weight wt., 3 lbs. 384050—Each—Net $7.50

Coil Winder 384075—Net $3.68

For winding coils on cylinders of bakelite or cardboard this makes a perfect job. The machine automatically centers 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.

Honeycombe Coil Winder

Winds any size or type coil any width from 1/2 inch to 1 1/2 inches. Diameter may be arranged to suit, by putting various sizes of wooden spools on the winding spindle. Hereon equipped with an adjustable pointer for counting number of turns. Must be made to fit standard cardboard cylinders. Shpg. wt., 3 lbs. 384035—Net $4.75

Wire Solder


Solderall

A combination of solder and flux in handy paste form. Makes possible a secure mechanical and electrically perfect connection. A little Solderall on the connection and the heat of a match or iron forms a perfect connection. Shpg. wt., 2 oz. 384015—List, 15c.

Solder Paste


Stevens Adjustable Panel Cutter

Austenitic limited edition silver cut. Justable from 1 1/2 to 6 inches. Diameter of stroke is 1 1/2 for convenience of brace or machine use. Shpg. wt., 10 oz. 383910—List Price. $1.75

Wizard Coil Winder

Winds a .014 wire coil with silk or cotton wire of any thickness from 1/4 to 1/4 inch diameter up to 10 inches in length. Adaptable for automatic feed and spacers. Ratchet gear prevents the formation of coils of finest workmanship. Coils cannot come undone once they have been anchored. Gives the desirable factory touch to the coils. Shpg. wt., 3 lbs. 383950—List Price $7.50. Net... $5.00

Ready Hot Soldering Iron

Safe, Non-Explosive and Portable

Radio-Electric Soldering Outfit

Widely used all day long in hundreds of industrial plants, proving their ruggedness and dependability. For use on 100 to 110 volt current. Shpg. wt., 2 lbs. 384019—2 3/4, in. point. List $3.50. Net. $2.34

384011—4 3/4 in. heavy. List, 100 cts. 5.00 3.35

Self Heating Soldering Outfit

Self-heating. One filling of 2 ounces of gasoline is enough to keep copper at earthing temperature for about 20 minutes. Extensively used for aerial soldering. Flux and small piece of solder included. 384008—List, $3.50. Net. $2.10

Ready Hot Soldering Iron

Safe, Non-Explosive and Portable

Every metal store, 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 sandpaper; a jar of ammoniac abrasive tape; two generous sticks of solder, and complete instructions. Shpg. wt., 3/4 lb. 384025—Complete. $6.95
### Stevens Radio Screw Clamp

**Price:** $17.50

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, 1 oz. Each...

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B3904</td>
<td>Each 1/2-in. blade</td>
<td>$3.50</td>
</tr>
<tr>
<td>3B3902</td>
<td>Each 1/4-in. blade</td>
<td>$5.50</td>
</tr>
<tr>
<td>3B3903</td>
<td>Each 3/8-in. blade</td>
<td>$9.00</td>
</tr>
<tr>
<td>3B3909</td>
<td>Set of 4</td>
<td>$4.50</td>
</tr>
</tbody>
</table>

### Goodell-Pratt Electric Punch Drills

These drills work with lightning rapidity. A punch and instantly you have a hole. Unapproached for speed and finish.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B3904</td>
<td>Each 1/4-in. blade</td>
<td>$3.50</td>
</tr>
<tr>
<td>3B3902</td>
<td>Each 1/4-in. blade</td>
<td>$5.50</td>
</tr>
<tr>
<td>3B3903</td>
<td>Each 3/8-in. blade</td>
<td>$9.00</td>
</tr>
</tbody>
</table>

### Special Radio Electric Drill Outfit

With this drill you can cut holes fast and true.Snap switch built into pistol grip makes control easy and positive. For use in 110-volt circuits. Drills 4 1/2-in. holes in hardest metal and up to 1/2 inch in wood. Shipping weight, 2 lbs.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>3B3922</td>
<td>NET</td>
<td>$8.50</td>
</tr>
<tr>
<td>3B3928</td>
<td>NET</td>
<td>$5.60</td>
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</tbody>
</table>

### Tap and Die Set

Tap wrenches, shps. wt. 3 lbs.

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<tbody>
<tr>
<td>3B3907</td>
<td>List</td>
<td>$15.00</td>
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### Countersink

For shaping holes in hard rubber, bakelite, fibre, wood, etc., to fit heads of wood screws. Shps. wt. 6 oz.

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<tbody>
<tr>
<td>3B3927</td>
<td>List</td>
<td>$1.50</td>
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</tbody>
</table>

### Nut Drivers

For driving in soft and hard Woods, Soft Metals, and Materials of similar character.

<table>
<thead>
<tr>
<th>Item</th>
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</tr>
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<tbody>
<tr>
<td>3B3910</td>
<td>List</td>
<td>$1.00</td>
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</tbody>
</table>

### Screw Drivers

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, 1 oz.

<table>
<thead>
<tr>
<th>Item</th>
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<tbody>
<tr>
<td>3B3904</td>
<td>Each 1/2-in. blade</td>
<td>$3.50</td>
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### Adjustable Template

Indicates exact location for driving in panel or base without adjusting to position and then readjusting in position. Can be moved without danger of changing adjustment. Shipping weight, 1 lb.

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<tr>
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<tbody>
<tr>
<td>3B3918</td>
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### Hexagonal Wrench Set

For enlarging drilled holes to proper size for bakelite, hard rubber, etc. Shipping weight, 4 oz.

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<tbody>
<tr>
<td>3B3919</td>
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### Electric Vise

For general utility purposes in radio wherever reaming is required. 1/2-in. size.

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<th>Item</th>
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### Radio Drills

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</table>
An Amazing Value

Of the H11301, 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, 18 1/2 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. 

H1137—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, 8 1/2 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, 17 1/2 in. deep, 54 1/2 in. high. Shipping weight, 110 lbs.

H1380—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, 8 1/2 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 20 in. wide, 17 in. deep, 46 in. high. Shipping weight, 100 lbs.

H11381—List, with Pure Tone Wood Horn with Long Tone Travel, $70.00. NET, EACH.......................... $415

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 Hindleamore, massive, damaged, yet so deftly proportioned to make it most graceful and appealing in its appearance. Panel doors of selected butt walnut overlaid with floral inlay 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 a arm rest slide. Behind the two grille doors is an extra large air column horn. beside which is a large, ample space for batteries, power units and other accessories. Outside measurements: 35 in. wide, 19 in. deep, 44 in. high. Accommodates any size panel up to 30 inches wide, 15 inches high and 15 inches deep. A blank uncut mounting panel is furnished to switch any smaller sized sets. The chassis compartment is made with a pull-out mounting board. Shipping weight, 175 lbs.

<table>
<thead>
<tr>
<th>Model</th>
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</tr>
</thead>
<tbody>
<tr>
<td>16B11362</td>
<td>List with large sized Pure Tone Wood Horn with 60 inch Tone Travel</td>
<td>$69.50</td>
</tr>
<tr>
<td>16B11363</td>
<td>Same with famous Fairfax Master Plass Horn with 72-inch Tone Travel</td>
<td>List, $180.00</td>
</tr>
</tbody>
</table>

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, panelled and beautifully shaded. Two upper doors have rich wood inlay designs. The entire front is ornamented with antique finish turnings, stained and high lighted. The inside is quite as beautiful as the grills fronting the horn or speaker compartment. The center section is given over to the set proper and measures 31 inches wide, 11 inches high and 14 inches deep. This section 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 44 inches wide, 18½ inches deep, 60 inches high. Shipping weight, 230 lbs.

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<thead>
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<tbody>
<tr>
<td>16B11364</td>
<td>List with large sized Pure Tone Wood Horn with 60 inch Tone Travel</td>
<td>$108.00</td>
</tr>
<tr>
<td>16B11365</td>
<td>List, with famous Fairfax Master Horn, having 72 inch Tone Travel Chamber</td>
<td>$112.00</td>
</tr>
</tbody>
</table>

Tasteful Orthophonic Model

Here we have the most popular type of radio cabinet—The Orthophonic—reproduced in a most unusual and pretty design. Leather plinth and severe in its contours. This severe by rich inlays and inlay effects. It is constructed of choice American walnut plywood and genuine butt walnut choice. The upper part is beautifully set off with a floral overlay and a two-tone inlayed border. The inlayed parts of the door are made of selected butt walnut veneers. The two slender panels beside the front door are neatly embellished with over lay scroll and the legs carry a striking carved effect. Two-tone high lighted soft velveteen finials. In the smaller view you may see how very pleasingly designed is the rich grille fronting the horn and power units compartment. The grille is also hinged, giving easy access from the front. The extra large space below it. The six compartments measure 30 inches wide, 8 inches high, 13 inches deep. An uncut 3-ply mounted panel is furnished for adapting smaller panel sized sets. Outside dimensions: 34 inches wide, 18 inches deep, 41 inches high. Shipping weight, 125 lbs.

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<td>16B11366</td>
<td>List, with large sized Pure Tone Wood Horn with 60 inch Tone Travel</td>
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<td>16B11367</td>
<td>List, with famous Fairfax Master Horn with 72 inch Tone Travel Chamber</td>
<td>$58.50</td>
</tr>
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WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3
MAGNIFICENT PIERSON CONSOLES

America's Finest Console

For those who want the very finest. A true classic in Period Design, bearing the motes 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 dignity and authority of some of the most beautiful and magnificent cabinets ever built. Constructed of genuine American walnut, with beautifully figured and matched walnut ply woods. This cabinet cleverly houses the radio complete, including space for power units, the large Orthotype horn, the set, and a loop. It is equipped with the large Newcombe-Hawley 18-inch Air Column Concert Grand Orthotype Loud Speaker, including the world's finest unit—the Baldwin Concert Grill.


16B11383—List, $250.00. NET, EACH $175.00. 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 romance. 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 but walnut with a Satinwood overlay on the frieze. The mitered moldings 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 Compartments, 8 in. high, 14 1/2 in. deep and 27 in. wide; Battery Compartments in base, 31 in. high, 21 1/2 in. deep. Height of Cabinet over all, 50 in.; width, 33 in.; depth, 21 1/2 in. Shipping weight, 175 pounds.

16B11355—List complete with Horn and Unit, $175.00. NET, EACH...

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 least 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 exquisite inlays, 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. Will 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 hinges and also behind the set in the center compartment, if desired. Dimensions: over all, 46 in.; height, 48 in.; depth, 19 in. Shipping weight, 195 lbs.

16K11356—List complete with Horn and Unit, $250.00. NET, EACH...

$102.00

$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 pilaster, 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 Hawley 84 inch Air Column 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 3/8 in. deep, 25 in. high, 20 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.......

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 moldings and gorgeous spindle carving. Dimensions: Overall width, 36 in.; height, 42 in.; depth, 18 in.; Set Compartment, 24 in. wide, 9 in. high, 15 1/4 in. deep; Battery Compartment, 16 3/4 in. deep, 25 in. high, 25 3/4 in. wide. Has 3-ply mounting panel which can be cut to smaller sized sets. Shipping weight, 195 lbs. 16B11363—List, $140.00. NET EACH. 16B11366—Without Horn and Unit, List, $100.00. NET EACH.....

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 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 associated with 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 in. Fitted with genuine Newcombe-Hawley 25 1/2 in. Air Column Loud Speaker with the marvelous Baldwin Concert Grand Unit. Shipping weight, 130 lbs. 16B11365—List, Complete with Horn and Unit, $810.00. NET EACH.....

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

World Radio History
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 on 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 colored silk filling. This cabinet comes with or without a Long Air Column Horn, to which is fitted a metal throat thread 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, 20 in. high, 24 in. wide, 14½ in. deep. Maximum panel space, 30x29 in. The top is hinged and the grille is removable. Shipping weight, 150 lbs.

NET, EACH $58.80
16B11366—Complete with Long Air Column Horn but without Unit. List, $100.00.
16B11367—List, without Horn, $90.00.

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 on 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, 28 in.; depth, 20 in. Will accommodate a set with panel size up to 9x24 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.

NET, EACH $55.85
16B11369—List, without Horn, $85.00.

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 play 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 on top and panels. The front door is made with matched butt walnut in rich polished, hand-rubbed finish. 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.

NET, EACH $41.15
16B11370—Complete with Long Air Column Horn but without Unit. List, $70.00.
16B11371—Without Horn. List, $60.00.
EXCELLO
RADIO CONSOLES

Gorgeous Duo-Tone Console

The Carolan is one of the finest examples of the proper adaptation of beautiful furniture to the use 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 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 accessible 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. List, $90.00. NET, EACH...
16B11358—Bench to match, as illustrated, made of solid walnut and finished to match all the three Excello Consoles shown on this page. Size top, 14x28 in.; height, 18 in. Shipping weight, 30 lbs.

16B11357—Console Complete with Horn but no Unit. List, $90.00. NET, EACH...

The Monterey

In this imposing design we find the popular Spanish effect as exemplified in the antique brass finished trimmings and the spindle, curved legs and cross stretcher. It is made of selected American walnut with 5-ply walnut top and panels. The front doors have beautifully matched but 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...
16B11361—Without Horn. List, $70.00. NET, EACH...

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, 125 lbs.

16B11359—List, Complete with Horn but no Unit. $55.00. NET, EACH...

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

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 walnut front panels. The richly carved scroll grille facing 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 velvety 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 25 9/16 x 12 3/4 inches. Shipping weight, 115 lbs. With in-built Horn but without Unit.

661 I 300—List, $70.00. NET, EACH $39.50

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 walnut front and striking Buri 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 10 x 24 inches and is fitted with a walnut 3-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 1/2 x 10 x 14 inches. Shipping weight, about 125 lbs.

661 I 301—Complete with Horn but without Unit. List, $115. NET. EACH $49.20

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 richness and charm of 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 gone the skilled craftsmanship of superior artisans, who have fashioned it from fine American walnut. The front is of butt 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 25 3/8 x 14 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 panel is a roomy compartment 15 1/4 x 18 x 7 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 1/4 in.; width, 30 1/2 in.; depth, 18 1/4 in. Shipping weight, about 150 lbs. Price includes Horn but no Unit.

661 I 302—List, $95.00. NET $53.75
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 burr walnut front. The doors and battery compartment of all have polychrome overlays. Decorative antique lighting (Vide 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 reproducing 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 31 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.

16811392—List, $97.50.

NET, EACH

$48.50

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 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 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 3/4 in. high, 13 in. deep. It is fitted with a 3-ply mounting panel 11x18 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, which may be fitted with 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 1/4 in. wide, 13 in. high and 13 1/2 in. deep. This is unquestionably one of the very best values in line radio cabinets ever offered. It is characterized by the finest workmanship in every detail. Shipping weight, 115 pounds.

16811396—List, with Built-in Wood Horn, $39.00.

NET, EACH

$22.95

Marvelous 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. Cut-away pans with flutes ending in a charming effect 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 9x28 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, 21 inches wide, 12 3/4 inches deep, providing ample space for either cone or horn speaker, as well as all necessary batteries and power units. Shipping weight, 60 pounds.

16811399—List, without Horn, $50.00.

NET, EACH

$28.90

16811390—List, with 20-inch Utah Cone Speaker.

$32.70

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3

World Radio History
Beautiful Speaker Table

An attractive rich appearing table, fine enough for the most expensive set yet very moderately priced. Genuine fire-ple walnut veneer top and front in elegant hand rubed 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.
NET ........................................... $19.10

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. Pine dull walnut finish.

16B11375 — List Price, $18.00.
NET ........................................... $7.80

Highboy

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 cut to take bakelite panel of receiving set. Cabinet measures 30 inches wide, 42 inches high, 16 inches deep. Shipping weight: 90 lbs.

16B11393 — Retail Price, $48.00.
NET PRICE ........................................... $28.20

Standard Console

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: 30 inches. Beautiful mahogany lacquered and hand-rubbed Polychrome finish with antique trim. Shipping weight: 90 lbs.

16B11395 — Retail Price, $42.00.
NET PRICE ........................................... $24.70

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. Finely grained 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 or receiving set. Guaranteed workmanship and materials.

Mrs. 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.
16B11378 — Walnut.
List, $27.90. NET ........................................... $4.40
Low Boy

16B1394 - Retail, $33.00.

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.

$20.55

Battery Cabinet

16B1397 - Retail Price, $25.00.

NET PRICE

$13.50

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, solid striping. Length, 30 inches; depth, 16 inches; height, 29 inches. A real buy at our low price. Shipping weight, 50 lbs.

Sturdy Radio Table

16B1396 - Retail Price, $28.00.

NET PRICE

$16.45

Speaker Console

Battery Table With Speaker Grille and Compartment

16B1395 - Retail Price, $26.00.

NET PRICE

$16.45

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.

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 finish. Front is one piece, molded and grooved in two-tone to give it open, giving free access for battery refurbishments, etc. While this table is priced very low, the finish is given the same care as our higher priced line. Top is hand rubbed, selection of wood, and in so far as finish is concerned has the exact finish of solid Walnut. DIMENSIONS—Height, 30 inches; top, 16x30 inches; inside compartment, 15 1/2 inches one side, 25 1/2 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.

$9.25

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 nickelled metal corner pieces. Overall size is 25 inches long, 15 1/2 inches wide and 10 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.

$13.25

World Radio History
Magnificent Overlay Distinguishes This Strikingly 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 loudspeaker unit. Outside dimensions: 24 3/4 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. $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 1/2 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. $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, 36 inches; width, 29 1/2 inches; depth, 16 inches. Lower section inside is 31 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 to last cabinets offering at no extra price. These cabinets have a tubular steel frame fitted with nickel plated panel. Tubs are stocked in 5, 10, and 15 inch panels. Full 10 inch drop face (of panel)

Article Panel shelves Depth Panel Ship. Price List
Net Price

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<tr>
<th>Article</th>
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<th>Ship.</th>
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<td>15 lbs.</td>
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A beautiful piece of furniture with genuine walnut top and shelf and solid walnut back, sides, and bottom. All parts are nickel plated. The price below is the list price. They are packed in boxes of 6 and 12.

Article Panel shelves Depth Panel Ship. Price List
Net Price

<table>
<thead>
<tr>
<th>Article</th>
<th>Panel</th>
<th>Ship.</th>
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Fritts
Super-Highland
Carved Cabinets

The highest grade cabinet obtainable. No better made. The wood is mahogany, finished in natural color with a lacquer finish on all the parts. The price below is the list price. They are packed in boxes of 6 and 12.

| Article | Panel shelves Depth Panel Ship. Price List
<table>
<thead>
<tr>
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Sheraton Two-Tone
Walnut Cabinets

Elegantly finished solid walnut top and sides to give the effect. Body of cabinet is beautiful with contrasting panels around the edges. Fine hand-rubbed finish. Full 10 inch drop face (of panel). Full ten inches deep back of panel. First grade walnut, guaranteed perfect finish.

| Article | Panel shelves Depth Panel Ship. Price List
<table>
<thead>
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Wainrite
Quality Cabinets

The body is Solid Walnut (not veneer). Back and sides are made of solid walnut, the best grade available. Full 10 inch drop face (of panel). Tubs are stocked in 5, 10, and 15 inch panels. Full 10 inch drop face (of panel). Tubs are stocked in 5, 10, and 15 inch panels.

Article No. | Size Width | Price List
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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 time and money saver for the radio service man. A complete check up can be made in a very few minutes.


W. E. Cone Type 540-AW


W. E. Speaker 548-AW

A 36-inch cone, mounted on a pedestal. Stands 48 inches high. Shpg. wt., 60 lbs. List

B. M. S. Short Jacks

Designed for limited space requirements. Single or double type only. Shpg. wt., 5 oz. Each

Bezels

Finish off holes in panel of any thickness. Best quality finish. Fine high quality finish. Each

Sub Antenna

Underground Antenna System

Reduces Static

A new underground antenna system. It completely replaces and does away with the air 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.

Jeweled Pilot Light

This pilot light is much admired by both builders and the red jewel at back of panel. Shows when batteries are turned on. (No bulb furnished — see page 94 for bulb.)

Master Craft Tube Renewer

A universal tube rejuvenator that operates direct from the "B" batteries. Brings back paralyzed 100, 200, A12, A171, or any tube with thoroiated filament. Simple to use. No AC current necessary. Get one and keep your tubes at full efficiency. Shpg. wt., 6 oz.

Neutralizes grid and plate capacity in tuned radio frequency sets. Mitered brass shrouds. 313105 — Model N, List $59c. Net

Muter Variable Condensers

Condensers with adjustable capacity range. Easily set for particular tube or circuit. With grid leak clips. Shpg. wt., 4 oz.

Switch and Pilot


Panel Light

Illuminates dial, tuning tuning easy. Mounts in 15 in. hole. Shipping wt., 4 oz.

Lamp Bracket

Ideal for illuminating dial, or as trouble lamp inside cabinet. Replaces bulb from X-ray. Complete with bulb.

Jeweled Pilot Light

This pilot light is much admired by both builders and the red jewel at back of panel. Shows when batteries are turned on. (No bulb furnished — see page 94 for bulb.)

Panel Light

Illuminates dial, tuning tuning easy. Mounts in 15 in. hole. Shipping wt., 4 oz.


dollar. Each

$36551 — List price, $1.00. Net...

$64c

$59c

$5.20

$1.40

$5.50

$1.80

$28c

$13c

$51c

$24c

$7.35

$56.25

$32.00

$87.00

$17.00

$106.

$30.60

$285110 — List

$30651 — List price, $1.00. Net...

$24c Net. each

$285111 — Valve Type. Shpg. wt., 60 lbs. List


$3136553 — 1 lb. Shpg. wt., 1 lb.

$3132651 — List, $3.00. Net

$1.06

$55.25

$3.50

$1.40

$1.30

$5.50

$5.20

$1.80

$2.28

$60c

$4.00

$6.00

$1.50

$3136552 — Illuminated Type. List, $3.00. Net

$28c

$28c

$13c

$1.00

$1.60

$1.00

$50


W. E. Speaker 548-AW

A 36-inch cone, mounted on a pedestal. Stands 48 inches high. Shpg. wt., 60 lbs. List

B. M. S. Short Jacks

Designed for limited space requirements. Single or double type only. Shpg. wt., 5 oz. Each

Bezels

Finish off holes in panel of any thickness. Best quality finish. Fine high quality finish. Each

Sub Antenna

Underground Antenna System

Reduces Static

A new underground antenna system. It completely replaces and does away with the air 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.

Jeweled Pilot Light

This pilot light is much admired by both builders and the red jewel at back of panel. Shows when batteries are turned on. (No bulb furnished — see page 94 for bulb.)

Panel Light

Illuminates dial, tuning tuning easy. Mounts in 15 in. hole. Shipping wt., 4 oz.

Lamp Bracket

Ideal for illuminating dial, or as trouble lamp inside cabinet. Replaces bulb from X-ray. Complete with bulb.

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CONSRAD PATTERNS

Consrad patterns contain complete instructions on how to build sets. Each pattern treats one of the popular circuits, giving necessary instructions on how to build the apparatus together. Wiring diagrams and panel layouts included. Everything is so plain and simple that you can easily build even the most complicated set.

21 Radiophone Diagrams

Consrad of 21 large blueprint diagrams. This is a selection of diagrams selected to show you in actual practice just how to build modern sets. How to make a Neutrodyne Receiver, your average receiver, the A-C. operation. Diagrams and descriptions on every modern component.

How to Make a Cockaday Set

Consrad of a four-circuit one-tube receiving set that can be built very cheaply and brings in distant stations with great volume.

How to Make a Neutrodyne

Consrad explains the construction of a six-tube Neutrodyne set and tells how to handle your Radio set. You will learn to read diagrams together with illustrated symbol chart. Consrad diagrams contain complete instructions and complete information. You will learn to locate and repair any trouble.

How to Make a Wave Trap and Clarifier

Consrad of the newest radio equipment. A complete index of the various parts of his net. This information is set forth in this compact little book that is valuable at all times.

THE POPULAR

S. GERNBASCH'S

Radio Encyclopedia

A thousands and thousands of useful hints and new ideas in one. 168 pages of technical information, circuits, etc. Describes the latest helps, history of radio, etc., 1930 definition, 549 photographs, diagrams, charts and diagrams. The most comprehensive and authoritative book on radio ever published.

Reflex Radio Receivers

Consrad of the finest and most up-to-date reflex circuits in use today. Diagrams and descriptions on every modern component.

How to Electrify Your Radio Set

Consrad gives complete information on changing over battery operated sets to standard A.C. operation.

All About the Neutrodyne

Consrad everybody knows the famous Neutrodyne hook-up. One of the newest Radio Receivers in use today. This 51-page book gives an explanation of every detail of the Neutrodyne and how it all works.

How to Locate Troubles in Your Radio Set

Consrad anyone with this handy book as a guide can repair and keep in order his own radio set. The detailed description of the modern radio sets and tells how to locate and repair any trouble.

How to Tune Your Radio Set

Consrad don't struggle in the dark looking for your radio. This book will help you avoid all the common pitfalls while building your radio sets.

RADIO BOOKS

All About Radio Parts

Consrad everyone who constructs a radio set should know the fundamentals of the various parts of his set. This information is set forth in this little book that is valuable at all times.

Radio Questions Answered

Consrad each broadcasting station sends out a signal which can be picked up by a radio set. This signal contains all the information of the station, including the station's name, time, and call letters. The man who wants to build only the practical parts of a Radio Receiver. This book will help you avoid all the common pitfalls while building your radio sets.

We Pay Freight As Per Offer Given on Page 3
How to Order

Our Prices Are Net

Net prices quoted have all discounts deducted; no further discounts are allowed.

Our terms are Cash with order or we ship C. O. D. if you so desire. New customers wishing C. O. D. shipment 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 totaling 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

<table>
<thead>
<tr>
<th>Weight</th>
<th>Per 100 lbs. for Express and Freight</th>
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</thead>
<tbody>
<tr>
<td>1-3 lbs</td>
<td>$1.00</td>
</tr>
<tr>
<td>4-6 lbs</td>
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<td>21-50 lbs</td>
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<tr>
<td>51-100 lbs</td>
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</tbody>
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How to Figure Express Charges

1. Total up weights of items ordered, as shown on Order Blank.
2. Refer to left hand column of table below and find weight which corresponds with weight of goods you are ordering.
3. Follow to the right. Opposite the weight of goods on your order, through the column 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 order.

Table of Express Charges Based upon Rate per 100 pounds

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<thead>
<tr>
<th>Weight (lbs)</th>
<th>Rate per 100 lbs</th>
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</thead>
<tbody>
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<td>97-98</td>
<td>$5.05</td>
</tr>
<tr>
<td>99-100</td>
<td>$5.15</td>
</tr>
</tbody>
</table>

THE BARAWIK CO., CHICAGO, U. S. A.
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 distinctively 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 14 1/2 inches.

The price at which we offer this free edge cone cannot indicate its value. It must be heard to be fully appreciated.

285103—List. $9.50. Your Price
Same style speaker having a 20 inch cone instead of 14 1/2 inch as above.

285153—List. $13.50. Your Price $5.95

The Great Barawik
Symphonic Cone

Greatest Value Ever Offered
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 mils at 360 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 1/4 in. wide, 7 in. high, 8 1/2 in. long. Shipping weight, 20 lbs.

285228 For Raytheon Tube. List with tube, $39.50. NET
285229 For UX280 Tube. List with tube, $41.00.

$18.95

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

"B" Power Unit

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 unflagging 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 compactness has been accomplished simply through the ingenious arrangement of parts. The units of construction are in themselves actually oversize. Here is further evidence 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 mls. 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. Rectifying tube.

List, $32.50.

Net, each $16.95

WE PAY FREIGHT AS PER OFFER GIVEN ON PAGE 3
Barawik Sets the Pace in Radio Set Values
With This New Line of Receivers

Beverly Model Console

Marvelo 6-Tube Illuminated Single Dial Shielded Receiver

Inbuilt Air-Column Speaker

Net Wholesale $53.50
Retail Price $110.00

A Beautiful Piece of Richly Finished Furniture is This Fine Console.
Never before a Value Like this—Challenges All Competition.

431/4 inches high, 261/2 inches wide, 14 inches deep. The battery compartment at bottom is 22 inches wide, 103/4 inches high, 12 inches deep, providing all space space for power units.

WHOLESALE PRICE LIST

IB13050—Set Complete, without accessories, but with inbuilt loudspeaker. List, $125.00. Net Wholesale...

For Battery Operation
IB13051—Set Complete, with All Accessories for Battery Operation, including four 201A type, one 200A type and one 112A type A. C. Tubes, one Barawik 1300 watt A. C. Storage Battery, two 112B type Batteries, three large 45-4” B. C. Batteries and complete Antenna and Ground Outfits. List, $175.00. Net Wholesale...

For Socket Power Operation
IB13052—Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112A type A. C. Tubes, one Barawik Supreme Eliminator, Barawik Supreme Eliminator, three large 45-4” B. C. Batteries and complete Antenna and ground Outfits; complete with all equipment ready to plug into light socket. List, $210.00. Net Wholesale...

IB13054—Marvelo Single Control Shielded Six CHASSIS ONLY, for battery or socket power operation. List, $60.00. Net Wholesale...

The Barawik Company, Chicago