The Season's Biggest Radio Value!
The Art-Moderne — A 7 Tube All Electric Set Equipped with Dynamic Speaker

They said it could not be done—but here it is!
The finest radio of its type in a beautiful console with dynamic speaker for only $78.11 net to you. It is the identical nationally known radio (by arrangement we cannot advertise its well-known name) that sold previously to February 15 for nearly double its present list price, which is $125.50. Not a close-out or a discontinued model, but a 1929 model being manufactured today. Get in on the profits!

Excels in Radio Performance!
A genuine Neutodyne—fully licensed. This is the circuit used in the highest priced radio sets. Seven A.C. type tubes — four CX326, one CX327, one CX371A and one CX381. Tuning is accomplished by a single control knob. The dial is illuminated. Specially treated rust proof steel is the chassis base — this insures safe delivery. Perfect shielding gives to this radio keen knife-like selectivity. The clean, well balanced arrangement of the various parts adds greatly to its sales value. Made only for 110-volt, 60-cycle A.C. current.

Positively no A.C. hum.

The Console
This beautiful cabinet in the ART MODERNE is a fitting tribute to the advanced engineering of the perfect radio mechanism it encloses. It portrays a beauty new in radio cabinets. There is a satin sheen richness in the grained walnut finish which attracts even those extremely critical about furniture. As a frame for this beauty, there is the lighter maple overlay. The size is generous, being 49 inches high, 17 inches deep, 24½ inches wide.

HARRISON WHOLESALE COMPANY
SUCCESSORS TO RADIO ACCESSORIES DIVISION OF
The Harry Alter Co. Michigan Ave. & 18th Street, Chicago
CAUTION: Keep these wholesale prices confidential!
COPYRIGHTED 1929 BY HARRISON WHOLESALE COMPANY
MINUTE MAN SERVICE

SATISFACTION GUARANTEED OR YOUR MONEY REFUNDED

HARRY ALTER'S RADIOr BOOK
A Periodical Publication Listing High Quality Radio Receivers, Kits and Accessories for DEALERS ONLY

Published and Copyrighted by THE HARRY ALTER CO.
Established 1919

Vol. 10 March, 1929 No. 3

Harry Alter's Swan Song

Again I have come to the threshold of a new adventure. It is with genuine regret to announce to my many dealer friends, that a new business calls me away from the radio accessory business to which I have devoted the last ten years. However, my mind rests easy, because I have made certain that the new management will carry on in the same the helpful spirit, in the same efficient way and along the same sound business principles to which I am committed.

I have left the organization intact; your dealings with individuals of my organization will be carried on by the same men and I may with emphasis that you will receive the same consideration in every case. Increased buying facilities assure you the lowest prices on the market on strictly high-grade merchandise.

That's why I can ask you and urge you with a clear conscience, to continue to select your goods from the Radio Book. Your support in this direction will be personally appreciated by me.

Harry Alter

THINGS TO REMEMBER WHEN ORDERING

PRICES: All prices in this book are net, subject to our regular discount of 2% for either cash with order or C.O.D.

TERMS: Our terms are cash. Many of our customers are highly rated, but are willing to buy for cash because of the big saving when buying from us. Because of our low prices it is impossible for us to sell on open account. If you have never tried buying for cash, you will be agreeably surprised with the saving that you can make by sending your orders to us.

SEND NO MONEY: We will gladly ship your order C.O.D. if you wish, so you can examine the goods before you pay for them. We don't ask you to finance us. Keep your money working for you at home. C.O.D. collection charges are very small.

SAFE DELIVERY GUARANTEED: We positively guarantee safe delivery of all shipments and make good any damage or loss. If the shipment shows damage, have a notation of it made on the freight or express bill, for our mutual protection.

STOCK NUMBERS: Always use our stock numbers when ordering to avoid possibility of error. Also be sure you use current edition of our catalog when pricing your order. We protect you against price increases for the life of each catalog, and give you any reduction at once.

About Returning Goods

Before returning any piece of radio apparatus or receiving set, write explaining your difficulties. Our experts may be able to help you. If something is unquestionably defective, we will give you shipping directions. Send no goods back without first writing us for instructions.

HARRISON WHOLESALE COMPANY
SUCCESSORS TO RADIO ACCESSORIES DIVISION OF The Harry Alter Co. Michigan Ave. & 18th Street, Chicago

CAUTION: Keep these wholesale prices confidential.

COPYRIGHTED 1929 BY HARRISON WHOLESALE COMPANY
In presenting this line of speakers and units, Temple, already enjoying a wide reputation as the embodiment of all that a loud speaker should be, surpasses its previous achievements in combining the highest quality construction and decorative beauty with minimum prices.

**Dynamic Speaker Model 50**

Amazing for its true tonal beauty. Model 50 Temple Dynamic Speaker sets another standard of reproducer value. Developed and perfected by the renowned Temple engineering staff and made under the most stringent manufacturing supervision. It is not only a worthy addition to the Temple line, but an outstanding example of the highest type of reproducer that has ever been announced. Encased in the same frame as the Model 10 it has the same dimensions with the exception of being 1½ inches deeper. Weight 2½ lbs.

No. 97471
List $29.00, Each $28.50
Less 2% or.

**DYNAMIC CHASSIS**

The Temple Dynamic Speaker can also be obtained in the chassis only, for use in a console. This feature is quite an attractive one as it enables one to give his radio receiver the best there is in reproduction, and yet stick to economy. Not the slightest particle is different. The same tone quality. The same volume. Everything in the mechanical construction is the same, 110 volt, 60 cycle.

No. 98560
List $25.00
Each

**Air Chrome Speaker Model 20**

The application of unequalled engineering and manufacturing experience to the construction of the Temple Air Chrome Speaker has made it an outstanding example of one of the finest speakers the world has ever seen. Its open radiator consists of two sections, instead of one, driven by the Temple Double Action Unit, thus substantially increasing the volume and tonal range, and consequently producing a tone quality amounting to its clarity. Its genuine walnut frame coupled with the leather effect of the sides give it a beauty in harmony with its tone. The model 20 is 11½ high, 11½ wide and 5½ deep. Weights 3 lbs.

No. 97475
List $29.00, DEALER’S PRICE...

**Air Column Speaker Model 15**

The Temple Air Column Speaker is another splendid example of the mathematical precision and mechanical perfection, which has made the name of Temple a byword in radio circles. Advanced manufacturing facilities have made possible a smaller and lighter speaker in which marvelous improvements in tone beauty, handling capacity and response to all frequencies have been made. Replete with its artistic beauty, it is the last word in speaker construction.

No. 97480
List $20.00, Dealer’s Price...

**Air Column Speaker Model 11**

The Temple Air Column Model 11 is a genuine exponential air column speaker which is undoubtedly the highest quality speaker to be had at its price today. Made under the same exacting specifications which have made Temple Speakers pre-eminent for fidelity reproduction. It is consequently a speaker of marvelous tonal quality and tremendous volume. It is 11¾” high, 11½” wide, 5½” deep and weighs 1½ lbs.

No. 97476
List $14.80, Dealer’s Price...

**Air Chrome Console Speakers**

This new development in speakers couples a wide experience in the construction of quality speakers with one of the most advanced principles of sound reproduction, yet developed and at the same time carries more essentials required than any other speaker on the market. The Temple Air Chrome Speaker has the open radiator and its diaphragm is so constructed as to insure the balanced tone principle, whereby the slightest impulse is carried from the driving unit to the diaphragm without any loss. These factors, strengthened with the performance of a specially developed powerful Double Action unit accounts for its enormous volume and all response to all audible frequencies. Comes in three different sizes which makes possible easy installation in any cabinet.

No. 97471 M 9½ x 2” 5 ” 4½ lbs. 20.00 $12.00

No. 97472 M 14 x 2” 8 ½ ” 5½ lbs. 20.00 12.00

No. 97473 K 14 x 1½” 8½” 7½ lbs. 20.00 12.00

**The Temple Comparator**

This device is used to compare and analyze characteristics of any type of reproduction speakers, having a comparing capacity of two to five speakers. A slight turn of the knob switches from one speaker to another. May also be used as a selector for various speakers when they are located in different rooms.

No. 97479
List $10.00, Dealer’s Price...

We Carry All Nationally Known Radio Lines
SPEAKERS

Newcombe-Hawley is a name that has always been associated with quality speakers. In keeping pace with radio progress they have eclipsed anything of the past applying their vast knowledge to the construction of this line of dynamic cone, magnetic cone and air column speakers.

MAGNETIC CONE TABLE SPEAKER

This attractive portable reproducer is equipped with the Newcombe-Hawley magnetic and dynamic cone unit and is so constructed as to accommodate practicallly any radio receiver. The unit is hidden from view behind a cloth covered grill which in no way interferes with the transmission or sound impulses. Where lack of space does not permit the use of a console, the table speaker serves the double purpose of holding table and speaker. Made of walnut and artificially designed and finished, this speaker adds to the beauty of any set.

<table>
<thead>
<tr>
<th>Type</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97996 Magnetic Unit</td>
<td>$40.00</td>
<td>$24.00</td>
</tr>
<tr>
<td>96764 110 Volt A.C. Dynamic</td>
<td>$25.00</td>
<td>$15.00</td>
</tr>
</tbody>
</table>

MAGNETIC CONE PORTABLE SPEAKER

This attractive Portable Reproducer is equipped with the New Model 90 Magnetic cone Unit described below. Furnished in a beautiful walnut cabinet with cloth grill. Extremely sensitive and capable of ample volume without distortion.

<table>
<thead>
<tr>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>$25.00</td>
<td>$16.00</td>
</tr>
</tbody>
</table>

MAGNETIC CONE CHASSIS MODEL 80

Newcombe-Hawley Magnetic Cone speakers meet the demand for a high quality reproducer at moderate cost. A strong permanent magnet provides the field. Furnished in a plain wood baffle box. Available in any set 9 1/2".

<table>
<thead>
<tr>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>$15.00</td>
<td>$10.00</td>
</tr>
</tbody>
</table>

An extremely popular table and console reproducer of wide tonal range and surprising volume. Equipped with Newcombe-Hawley Air Column Tone Chamber and console unit. Beautiful walnut with gold cloth grill. Panel in console model can be cut to fit the popular sets.

<table>
<thead>
<tr>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>$25.00</td>
<td>$15.00</td>
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</tbody>
</table>

These attractively proportioned models, in beautiful burr walnut, combine fine furniture with a dynamic cone reproducer of unsurpassed tone quality. Table model compact but large enough to hold most table type receivers. Console model offered in large and small size to accommodate all size radio receivers.

TABLE AND CONSOLE MODEL DYNAMICS

<table>
<thead>
<tr>
<th>Their</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97374 905 6-volt Battery</td>
<td>$41.00</td>
<td>$25.00</td>
</tr>
<tr>
<td>97375 909 110-volt A.C.</td>
<td>$50.00</td>
<td>$30.00</td>
</tr>
</tbody>
</table>

CONSOLE MODEL for the Smaller Sets

<table>
<thead>
<tr>
<th>Their</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97376 924 6-volt Battery</td>
<td>$40.00</td>
<td>$25.00</td>
</tr>
<tr>
<td>97377 929 110-volt A.C.</td>
<td>$50.00</td>
<td>$30.00</td>
</tr>
</tbody>
</table>

For the Larger Sets

<table>
<thead>
<tr>
<th>Their</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97378 928 110-volt A.C.</td>
<td>$60.00</td>
<td>$35.00</td>
</tr>
</tbody>
</table>

A unique model in fine burr walnut, complete with a Newcombe-Hawley A.C. Dynamic Reproducer. By installing any A.C. set in the cabinet a splendid combination radio and phonograph console is obtained. Above the set is a phonograph turntable with electric motor and selector switch, with connection for radio receiver and phonograph pickup. Also provided with compartment for phonograph records. For light socket operation only. Complete with electric pick-up.

<table>
<thead>
<tr>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>$257.50</td>
<td>$142.50</td>
</tr>
</tbody>
</table>

DE LUXE DYNAMIC CONE REPRODUCER

This attractive portable reproducer is beautifully encased in a walnut cabinet with a satinwood front and can be obtained for battery or A.C. operation. A.C. Models are equipped with equilizer switch for controlling resistive quality.

NEW LOW PRICES

<table>
<thead>
<tr>
<th>No.</th>
<th>Model</th>
<th>Battery Operation</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97462</td>
<td>Model 976</td>
<td>6 Volt</td>
<td>$34.00</td>
<td></td>
</tr>
<tr>
<td>97464</td>
<td>Model 989</td>
<td>110 Volt A.C.</td>
<td>$39.00</td>
<td></td>
</tr>
</tbody>
</table>

NEWCOMBE HAWLEY DYNAMIC CHASSIS

The Newcombe Hawley Dynamic Cone Reproducers can be had for both battery and light socket operation. Complete with step down input transformer, condition equalizer and audio-input cord.

NEW LOW PRICES

<table>
<thead>
<tr>
<th>No.</th>
<th>Model</th>
<th>Battery Operation</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97370</td>
<td>Model NH-5</td>
<td>6 Volt</td>
<td>$21.00</td>
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</tr>
<tr>
<td>97371</td>
<td>Model NH-10</td>
<td>110 Volt A.C.</td>
<td>$24.00</td>
<td></td>
</tr>
</tbody>
</table>
PEERLESS DYNAMIC 19-A
With 9 Inch Cone
In the Peerless Dynamic Speaker, one can feel secure that he has the very finest in radio reproduction. Such like tone, such magnificent volume is beyond conception. Constructed in accordance with the plans of the best engineers in the business, and with utmost exactness. Equipped with the nine-inch Peerless Dynamic Cone. The cabinet is of selected walnut carved into a beautiful Gothic design. Height 16 5/16".

No. 98586 6 Volt
List $60.00  Each $36.00  Less 2%
No. 98587 110 Volt A. C.
List $75.00  Each $45.00  Less 2%

Dynamic Chassis
The design of the Peerless Dynamic Chassis is determined by the radically new developments in Dynamic Speaker construction, first among these being the new type one-turn voice coil made of a single ring of copper. The coil is fastened to a balsate tube at the other end of which the cone is attached thereby utilizing all the available space in the magnetic cup, which is an integral of the coil itself and serves the double purpose of a flexible suspension and conductor. Resistance and losses are reduced to a minimum by use of the new Peerless input transformer which has a secondary of a single turn of heavy copper strip bolted direct to the voice coil suspension. Made in models to use any type of current. Height of chassis 9-13/16", depth 6-9/16", width 3 3/4".

Diameter of cone 7/8.

No. 98152
List $35.00
Each $33.00  Less 2% or

No. 98153
List $40.00
Each $38.00  Less 2% or

PEERLESS DYNAMIC 17-A
The same as the above listed speaker in every detail of construction, only that it has a 7-inch cone, instead of a 9-inch cone, Height 14 5/8".

No. 98184 110 Volt A. C.
List $65.00  Each $39.00  Less 2%
No. 98185 6 Volt
List $60.00  Each $35.00  Less 2%

Gothic Magnetic Speaker
Reproduces all low notes of the scale—from below 100 cycle to a high of 4000 cycles. The unit is a double acting balanced armature having no polarity. The Peerless is a best seller in spite of its high price because of comparative tests it is better. The Gothic designed magnetically cabinet—the handsome grille, the fool-proof rugged construction are other hit features. Try the Peerless reproducer.

No. 98536
List $30.00
Less 40% $18.00
Less 2% $17.64

PEERLESS BUILT-IN UNIT
This type is for use in console cabinets—otherwise it is exactly the same as the regular Peerless. The plain box is 9 1/4 wide, 9 3/4 high and 6 inches deep. Complete with 2 feet of cord. Hear that deep rich tone that only the Peerless has.

No. 97246
List $110.00  Less 40% Each $66.50
Less 2% or

PEERLESS TABLE
A delightfully simple yet artistic bit of furniture is this Peerless Table Speaker which serves the double purpose of beautifying the radio receiver and housing the speaker. The Peerless serves in both capacities, brilliantly. As it is equipped with either the Magnetic or Dynamic speaker, it is hardly necessary to mention that the tone of this table speaker leaves nothing to be desired in the way of reproduction. The cabinet is a beautifully carved affair, accentuating the trend of modern art. Made of selected walnut and finished in walnut veneer. Has buill board for the Dynamic Speaker. Measures 30"x20"x14" deep.

No. 98588 Peerless Magnetic Speaker.
List $60.00
Each... $30.00  Less 2%

No. 98590 110 Volt A. C. Dynamic Speaker (9" cone).
List $80.00
Each... $40.00  Less 2%
UTAH DYNO LA SPEAKER

A specially processed moisture-proof corrugated cone assures quality reproduction in the Dynola, regardless of climatic conditions. This is quite an item in a moist atmosphere where an interior speaker will produce a distorted reproduction. A beautiful cabinet made of 5 ply walnut with genuine burr walnut front, finished in antique brown. Truly a work of art. The cabinet is of non-directional design having the same grill and appearance both front and back. Dimensions 12 1/2" high, 15 1/4" wide and 12 1/2" deep.

No. 86250 110 Volt A. C. Operation............. List $50.00 Each $35.00 Less 2%
86251  6-12 Volt Battery Operation......... 35.00
86380 110-220 Volt D. C. Operation......... List $50.00 Each $35.00 Less 2%

UTAH Dynamic Chassis

The Chassis of the above shown speaker can also be obtained without the cabinet for use in a console. Manufactured by the leaders in their field, it is a manifestation of their experience and theoretical knowledge of speaker construction.

No. 95523 110 Volt A. C. Operation............. List $40.00 Each $25.00 Less 2%
92224 6-12 Volt Battery Operation............. 30.00
86355 110-220 Volt D. C. Operation............. List $40.00 Each $25.00 Less 2%

UTAH X-30 MAGNETIC SPEAKER

Here is more evidence of Utah's ability to put out a speaker that combines the brilliance of performance and dollar value. Equipped with a cone that has such exclusive features as a naturality voice motor and a special processing which eliminates distortion, it is indeed a product which insures consistent, excellent reproduction. In a cabinet of genuine walnut plywood finished in antique brown, it is a treat for the eye with its subtle simplicity. Front and back are identically alike. Dimensions 11 1/2" high, 16" wide, 8 1/2" deep.

No. 96556 List $30.00. Each $18.00 Less 2%

UTAH X-20 MAGNETIC SPEAKER

This clock shaped speaker possesses a certain charm by virtue of its simplicity of design, and when you listen to the sweet tone that emanates from this speaker, you will understand why it deserves the name of Utah. Made of genuine walnut plywood, finished in antique brown. Front and back have same grilled appearance. Height 11 1/2", depth 10". Equipped with 10 ft. power cord and switch.

No. 76562 110 Volt A. C. Operation............. List $40.00 Each $29.70 Less 2%
76650 6-12 Volt Battery Operation............. 35.00
12574 110-220 Volt D. C. Operation............. List $40.00 Each $29.70 Less 2%

NEW UTAH Utah 8 1/4" In. Cone for Consoles

You will say it is wonderful when you hear it. Something new and amazing because of its low price. The metal frame around the edges of the cone permits easy fastening in any console. This new Utah cone will take all the volume without a rattle. Just the speaker for the new powerful electric sets. And what a tone—mellow, clear, reproduces high and low notes with faithful life-like fidelity. Buy one and see for yourself. Contained in plain baffle board square box 9 1/4" x 9 1/4" x 5 1/4". Make mounting very easy and supplies needed baffle material.

No. 97251 List $10.00
Less 40% $6.00
No. 97252 List $10.00
Less 60% $4.00

SAME AS ABOVE BUT WITHOUT CASE

The same speaker as illustrated above is also supplied without wooden case. Very compact—will fit any desk.

No. 97251 List $10.00
No. 97252 List $10.00

UTAH UNITS

Finished, in nickel, furnished with or without stand to fit consoles. Beautiful, undisturbed musical qualities.

No. List Each
9866 With Stand $37.99 $4.80
39724 Threaded Unit 5.00
96077 De Luxe 7-35 4.50
96449 Big Chief 3-50 2.10

"Service doesn't alter, when it comes from Harry Alter"
Farrand

DYNAMIC and MAGNETIC SPEAKERS

Farrand Speakers are designed to operate any make of set—Dynamic Speakers being used on sets using 171, 210, or 290 tubes. Sensationally new design and construction features not only add further laurels to Farrand tonal supremacy but also provide hitherto unattained degrees of volume acceptance.

GOTHIC DYNAMIC

The outstanding value in Dynamic table speakers, combining the utmost in outward beauty with Farrand acoustical leadership. Beautiful, two-tone walnut cabinet of classic Gothic design. Produced in 6 Volt DC and 110 Volt AC Models.

No. 97450 Model 70—List $5.00, Each $5.00
97451 70—110 Volt...................................... List $5.00, Each $5.00

FARRAND MAGNETIC GOTHIC

The Farrand Magnetic can also be had housed in the above Gothic cabinet. An outstanding speaker both as to reproductive performance and beauty.

No. 97452 Model 60 List $30.00 Each $16.50

Dynamic Chassis

Designed for all types radio consoles, cabinets or phonograph combinations. Tonal range and fidelity unmatched by any other reproducing unit in general use. Replace your old speaker and get new marvelous tone quality.

No. 97453 72—List $21.00
97454 72—110 Volt AC......................................... List $35.00, Each $21.00

Farrand Magnetic Table Speaker

An exceptionally graceful table of handsome two-tone walnut, designed to harmonize with the modern home furnishings. The built-in magnetic speaker affords all the volume demanded by the most powerful receiver. Height 30 in., Width 24 in., Depth 14 in.

No. 97461 Model 68 List $45.00 Each $27.00

Farrand Tiffany Table Speaker

A typical Farrand value and artistic achievement of exceptional performance, housed in an exquisitely proportioned upright console of richly finished two-tone walnut. Height 36 in., width 16 in., Depth 10 1/2 in.

No. 97455 74—6 Volt DC................................ List $75.00, Each $45.00
97456 74—110 Volt AC...................................... List $95.00, Each $45.00

Farrand

BOX CHASSIS

Same chassis as listed at the right, mounted and housed in a wood sounding chamber. Especially suitable for installation in consoles. Size 9 1/2 x 91/2 x 8 1/2 inches.

No. 97457 List $18.00
Each $10.50 Less 2% or $10.50

CHASSIS

Unusually small-size cone reproducer of unlimited tonal capacity and volume. Biare-proof magnetization affords all the volume acceptance demanded by the most powerful power tubes.

No. 97458 List $15.00
Each $9.00 Less 2% or $8.82

PANEL CONE

An unusually attractive new model, fashioned in the manner of a fine portrait frame, with rich silk screen. Finely finished two-tone walnut with attractively carved corners. Height 12 in.

No. 97459 List $15.00
Each $10.80 Less 2% or $10.58

Junior (Clock Type)

A new Farrand speaker that is fast becoming the most popular reproducer in America. True Farrand tone quality and a handsome bronze finish metal cabinet, at an extremely moderate price.

No. 97460 List $23.50
Each $11.70 Less 2% or $11.46

We Carry All Nationally Known Radio Lines
PHONO LINK
The Phono Link is the last word in the musical reproduction. By far the lightest pickup on the market, reducing the weight of your records to a minimum. Instant change from phonograph to radio set can be made without changing tubes. Volume control insures perfect tone quality and is controlled at the pickup magnetically. Adapted to both AC and DC sets.

No. 96734 Complete, List, $7.50; Each, $4.50
Less 2% or...

SALT LAKE CONSOLE UNITS
High grade replacement units with threaded end that fits all standard horns and console speakers. Every one is tested and will carry large output load.

No. Type
96118 High grade, dependable unit that fits all standard horns...

Send Cash with Order and Save C. O. D. Charges

O'NEIL ILLUMINATED SHIP SPEAKER
A beautiful speaker combining ornamental value with quality mechanical construction. Features a sized oval frame full rigged, illuminated by two concealed 25 watt red and blue intermediate lamps giving an exquisitely beautiful sunset and glow effect. Ship is constructed of cast aluminum and is finished a tarnish brown. Equipped with lamp plug, light, bulb cord and phone cord. Stands 20 inches high.

No. 96847 List $25.00
Each $15.00

O'NEIL STANDARD CONE SPEAKER
In this O'Neill cone model, we have an inexpensive yet a very beautiful speaker, and one of the finest quality. Constructed of the best material obtainable and in accordance with plans drawn up so as to give forth a tone, so smooth and so clear, that will earn your immediate endorsement. Its low price should make it a record seller this year. Finished in beautiful mahogany and rayon, and the cone in tan with a mottled effect in green.

No. 98548 List $14.75
Each $8.85

NEW WEBSTER ELECTRIC PICK UP
The Webster Electric PickUp can be attached to the phonograph and connected with the radio set in a few minutes. Will faithfully reproduce all frequencies now recorded on the best Electric Pick Up. Remarkable clearness and volume. Consists of volume control base, cantilever supporting arm, and pick up head. Complete with adapters for both A. C. and D. C. sets and full instructions.

No. 98597 List $17.50
Each $10.50
Less 2% or...

BETTERBILT MAGNETIC CHASSIS
Ideal for use in consoles. Will take ample volume without a rattle. Constructed with the best of material obtainable. And its low price should make it a record seller.

No. 98549
List $15.00
Each $8.00
Less 2% or...

TOWER PHONES
Extremely sensitive phones, but constructed very ruggedly. Light in weight with comfortable head-band.

Very Special Price
No. 92362 List $2.95
Less 50-60%...

THE AMSCO ORTHOPHONE
The newest device to protect the speaker, where power tubes are used. It is placed between speaker and tone amplifier and gives perfect protection and a high output.

No. 94759 List...
Each...

ANSONIA REPRODUCER
An arborial in its Gothic design, the Ansonia reproducer, in its physical structure reflects the spirit of the time, that the finest engineering facilities have put into it. The cabinet is in green, but walnut. The newly developed driving motor is sturdy constructed and dust proof, with moving parts completely cov

No. 98545
List...
Each...

ANSONIA CHASSIS
Here is the chassis of the above shown model, which has been designed for use in consoles. A smooth even tone quality, void of any distortion or distortion.

Ruggedly constructed of the highest grade materials. Dimensions, 9” x 9” x 5 1/2”.

No. 98546
List...
Each...

Satisfaction Guaranteed or Your Money Refunded
THE NEW DELUXE PACENT PHONOVOX

The only pick-up device designed for use with the fibre needles without loss of volume. Permits changing from radio to phonograph without removing the detector tube. The Double Action TONE ARM provides correct weight at the needle point for obtaining best reproduction. New design triangular needle holder takes either steel or wooden needles. Complete with Counter Balanced Tone Arm, adaptors for both AC and DC Sets, and volume control.

No. 96714 Model 124 For use with AC or DC sets. With Tone Arm. List $6.50. Each.

ALSO FURNISHED WITHOUT TONE ARM

The De Luxe Model No. 165A will meet all requirements for those who do not desire a tone arm. Reversible attachment permits left or right hand installation. One model for both AC and DC sets.

No. 96966 Model 165A; List, $15.00. Each.

TEMPLE DOUBLE ACTION UNIT

Specialty designed to meet the requirements of the new A.C. sets which have such a tremendous power output that the ordinary unit will not handle the low notes satisfactorily. Because of its superior construction, scientific design, perfectly matched parts and most rigid testing, the Temple Double Action Unit is equipped to overcome these difficulties.

No. 97475. List $15.00. Each $3.50. Less 2% or.

Specially designed for the Air Chrome type of speaker. No. 96965. List $10.00. Each $6.00. Less 2% or.

PACENT PHONOMOTOR

The Pacent Phonomotor is an electric phonograph motor which can easily be installed under any motor-board to permit electrical rotation of the turn-table. This eliminates all the numerous troubles attendant with the delicate mechanism of the spring motor, and assures a durable, fool-proof phonograph, performing consistently with a steady, unvarying speed. Consumes a very small amount of power, operating with 110 Volts A.C. and 60 cycles frequency. The Motor itself is very simply constructed, yet with the greatest precision. All bearings are oil-sealed, and are burnished, giving minimum friction and long life. Has a special compensating device for eliminating noise-transparent. Very easily cooled. Its low cost along with the ever-increasing desire for electrical efficiency will make this a great seller this season. Weights 1/2 lb.

No. 96204 List $35.00 Each $21.00.

PACENT ELECTROVOX

The Pacent Electrovox is a complete electrically-operated phonograph, plugged into any radio set and connected to the electric light socket. It plays records with all the beauty and tone quality of an expensive electric phonograph. Just plug it until you hear this wonderful sounding record. It has a volume control, needle cups, radio to record switch, tone arm rest and special adapter. The tone arm is mounted on the right-hand side of the motorboard with the cord concealed. The volume control is concealed in the back of the cabinet. The Electrovox at present can only be used for A.C. sets. D.C. model will be available shortly.

No. 96333 List $75.00 Each $45.00

NATHANIEL BALDWIN UNITS

Baldwin Units have acquired a reputation that has given them a commanding position in the eyes of the radio dealer as well as the general public. Baldwin Units are recommended especially for the new orthophonic type speakers so much in vogue now. A Baldwin Unit will improve the tone quality.

Rival Unit

No. 94933 Baldwin Concert Unit... List $10.00 Each $6.00

SPECIAL OFFER

No. 94932 Baldwin Rival Unit, List $7.00 Less 40 and 25% or. $3.70 Net

“THE ROTOR” PHONOGRAPH MOTOR

Here is another electric motor combining simplicity of construction, durability, and low price. As you can see in the illustration it is all very compact, containing only one moving part supported on a bearing and running in a hard bronze bush. It is timed electrically, magnetically and mechanically assuring absolute indirectness, constant speed and permanency. Consumes a minimum of power, the cost of operating for fifteen years being one cent. Its installation is a matter of greatest ease, being a matter of minutes to make complete installation. To be used with 110 volt A.C. 60 cycle current only. Its low cost will pave the way for a great amount of sales.

No. 96789 List $25.00. Each $15.00.

ROTROLA

The Rotrola is a portable electric phonograph when plugged into your radio set and connected with the electric light current. A quality product throughout, that is truly the last word in compactness. Equipped with the electro-dynamoe and the phono Link Arm, the rotrola is nickel plated covered with velvet and is housed on a fabricoided pillar. The record is a finely finished in cold blue-tiled.. It is as rich appearing open as it is in the box. Dimensions are 16 x 14 x 8.

No. 96789 List Price $30.00. Dealer’s Price, $24.00.

$23.52 Net

Freight Prepaid on All Orders of $50.00 and Over
Sterling R250 Power Amplifier

The Sterling R 250 Power Amplifier is designed to operate on either A.C. or D.C. sets. It is equipped with its own rectifier and uses the 286 or 284 tube in addition to the 250 tube. Very simple to install. Plug into the electric light socket and also plug the amplifier into the last audio frequency stage of your radio receiver. Brings your present set up to date. Gives it the power to operate a dynamic speaker and obtain those low, full, round notes that cannot be obtained from either the 171 or 172 tube. Amplifier operates from 110 volt A.C. 60 cycle current. Priced less tubes.

No. 98354 List $33.00
Each $32.80
Less 5% or...

$22 34

UNIVERSAL MICROPHONES

STANDARD BROADCAST MODEL

Two button, carbon granule, solid back, stretched duraluminum diaphragm with gold contact surfaces. All parts accurately machined. A very noticeable absence of hiss.

An exceptionally flat response curve from 20 to 10,000 cycles.

This microphone is ideal for use in broadcast studios, public address work or whatever the most perfect pick-up of the carbon granule type is required.

The most beautifully finished Microphone on the market.

An efficient 2 button type for voice pick-up. Particularly adapted to public address use; also for amateur broadcasters and experimenters.

MODEL BB

No. 98555 Microphone only
Each $60.00
No. 98556 Ring Desk Mounting
8.00
No. 98567 Covers for either type per pair 4.00

New Utah “Cone-Horn” Speaker

You never heard anything like it before in your whole life. Every listener says only one word, “Wonderful.” The new Utah Cone with a great big horn makes an acoustical combination that every one wants, built so as to go into large consoles. Just great for halls, outdoors or store demonstrations. Comes in two sizes. Gives all best effects of both the cone and exponential horn type speaker.

GIANT “CONE-HORN”

Air column 41 in., 14 1/2” wide, 21 1/2” high, 24” deep (overall), Weight 26 lbs.

No. 97255 List $25.00
Less 50% $13.00

No. 97252 List $72.00
Less 20% $57.60

STANDARD “CONE-HORN”

34” air column, 14 1/2” wide, 19 1/4” high, 14 1/2” deep (overall), Weight 22 lbs.

No. 97252 List $72.00
Less 40% $43.20
Less 20% $57.60

The popular long air column speakers that reproduce the voice and song so faithfully. These excellent tone chambers come equipped with the famous UTAH UNIT.

Dealers put a few in stock as a demonstration will easily sell them. Sizes are given to show what space is required. Can be placed into consoles furniture, or built into the room of the home. Equipped with a long extension cord. Take advantage of these low prices now.

No. Front Area, Depth Column 46-10% Air List—Less
96616 8 “x20” 12” 62” $11.50 $6.21
96618 10 “x20” 14” 80” 14.00 7.06
96618 10 1/2 “x20” 10” 60” 7.56
96619 19 “x24” 11 1/2” 120” 18.00 9.72

Complete with UTAH UNIT—Less 50% or...

12 FT. TONE CHAMBER WITH A DELUXE UNIT

96614 42”x36 144” $20.00 $18.00

SEE TELEVISION APPARATUS, PAGE 38

“Service doesn’t falter, when it comes from Harry Alter”
The Super Mastenna

The Super Mastenna is a new vertical outdoor aerial, employing the principle that, by its vertical position and resulting direct interception of radio waves, a greater volume can be obtained. Made of special grade high conductivity aluminum tubing, 1 inch square. Can be lengthened to desired height by telescoping process. Has a bell insulator. Thoroughly insulated weather vane, which operates smoothly, makes the aerial an object of interest. Can be lengthened to 16½ feet, 4 ft. 4 in. collapsed.

No. 96734
List $12.50
Each $7.50
Less 2% or
$7.35
Net

PREMAX COLLAPSIBLE STEEL AERIAL MASTS

Builtly and safely erected—various sections telescopic are within the other thus providing convenience in handling in stock. Clamp on side clamps must at length desired. When using the Premax Umbrella Connector listed below a sturdy umbrella aerial can be erected. The Betterbilt or Super ball aerial can also be mounted on the Premax mast by using the Premax Ball Adapter. Premax masts are universal for all purposes.

No. Length   List   Each
96530     7 Foot   $2.50   $1.50
96551     10 Foot   $3.50   2.10

ACCESSORIES

<table>
<thead>
<tr>
<th>Connector</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Umbrella Connector</td>
<td>$5.00</td>
<td>.50</td>
</tr>
<tr>
<td>Ball Adapter</td>
<td>.25</td>
<td>.15</td>
</tr>
</tbody>
</table>

KABINETTENNA

In addition to being one of the most efficient inside aerials, Kabinettena provides electric power for Dynamic speakers and A.C. Radio Receivers. No more unsightly wiring, double plugs, cumbersome aerials. Requires no lightning arrester. Reduces static and local interference. A trial will prove its superiority.

No. 96396.
List, $4.69
Each $3.70 Less 2% or
$2.65
Net

BETTERBILT HOWL ARRESTER

A simple means of stopping microphone noises. Made of lead and fits over the top of the tube. Furnished for the large type tubes only.

No. 96396.
List, 80c.
Each, 1c. Lots of 10... 9c

The Rambler

The Rambler, a product of Trav-Ler, has founded a new standard in portable receivers. Greatly improved, providing increased selectivity volume and tone quality.

Loud Volume
Lovely Tone

The ease of operation, wonderful tone, quality and volume, plus the feature of portability make the Rambler a desired companion at home or when traveling.

Weights Only
23½ Lbs.

Size 6½x16x12½ inches. Weighs only 23½ pounds, completely equipped. Very easy to carry or in a suitcase.

Attractive Appearance

Case is covered with genuine black moosehide. Attractive design in loop panel, embossed in gold. Fittings are gold plated throughout, incorporating beauty and richness.

Specifications

Has simple, single-dial control, equipped with spring base sockets, which absorb all shocks. Built-in speaker and aerial. Two stages Radio Frequency, one Detector, and two stages Audio. Phone Jack Jones Plug and cable. Set can be operated with Batteries or Eliminator. It comes equipped with binding posts for Antenna and Ground connections.

Priced less Tubes and Batteries

No. 96745 List $37.50
Each $30.00 Less 2% or
$2.940
Net

Accessories

Complete accessories for the Rambler consist of 5 CX290 tubes, 3 Bright Star A Batteries, 2 Bright Star B Batteries, and 1 Bright Star C Battery.

No. 96746
List $18.65

BODINE DE LUXE LOOP

The new BODINE De Luxe is a beautifully finished loop, that is both compact and efficient. The frame is selected solid walnut, hand rubbed. Winding covered with lustrous silk braided. Has a special capacity 3 contact jack, which permits loop to be rotated continuously.

No. 93488
For. 00035 Condenser
No. 93489
For. 00035 Condenser
List $12.00
Each...

$7.20
Less 2%
**PAL PORTABLE PHONOGRAPH**

The finest line of portables ever made. Easy to take anywhere—touring, boating, camping, etc. Plays for the home, real reason for the home, Superior in any way, Incorporate features usually only found on full-built cabinet phonographs.

**PAL SUPREME**
The latest improved model that gives you the genuine orthophonic type reproduction—pleasure of volume. A real achievement in the portable phonograph industry. Marvelous tone equal to expensive cabinet phonograph. Covered with short grain, Du Pont Fabricoid. Equipped with heavy duty, double spring. Plays 3 records with one winding. Has latest type S shaped tone arm and comes equipped with nationally known symphonic reproducer. Built-in wooden case holds 15 records. New type amplifying sound chamber. 12½ x 16 x 7½ inches. Weight 15 lbs. Furnished in BLUE, BLACK or BROWN.

No. 71276 List $19.00 Each $17.90.
Less 2% or.........................................................$16.95 Net

**PAL STANDARD—$25.00 Retail**
Equipped with a heavy duty double spring motor which plays three records with one winding. Carries latest type of tone-arm and metal shielded reproducer. Equipped with large built-in record album. Covered with genuine Du Pont Fabricoid with embossed finish. Weight 16 lbs. Supplied in black, blue, brown finishes. Size 15¼ inches long, 12 inches wide, 7¾ inches high.

No. 71091 Each $12.75.
Less 2% or.........................................................$12.44 Net

**PAL JUNIOR—$15.00 Retail**
Equipped with a new type metal shielded reproducer and a large built-in record album. Plays for the home, real reason for the home. Covered with genuine Du Pont Fabricoid. Weight 11½ lbs. In black, blue, brown finishes. Size 12½ inches long, 11½ inches wide, 7¼ inches high.

No. 71080 Each $8.45.
Less 2% or.........................................................$8.28 Net

**VERIBEST NEEDLES FOR PHONOGRAPHS**
No. 71978. Per Box of 50.................4½c
Specify Medium, Loud, Extra Loud.

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**LATEST TELEVISION PARTS, Page 38 and 39.**

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**B.M.S. HOME BROADCASTER**

The New Idea for a Radio Party

The Home Broadcaster consists of a microphone, a long extension cord, and a tube socket adapter. Just slip the tube out of the detector socket, plug in the adapter and the Broadcaster is ready to do its work. By simply pressing the switch button on the microphone you cut off radio reception and speak through the loudspeaker. Pool your friends—make a station announcement from Paris, or make some intimate remark about your friends. Then release the button and let the program continue. It fools everybody. The Broadcaster can be left permanently connected to the receiver, as it will not interfere with radio reception. The Broadcaster lends itself to many commercial uses such as entertainment announcements, classroom work, lectures, in fact anywhere where voice amplification is useful.

No. 96435 For D.C. Sets.
No. 96447 For A.C. Sets.
List $7.50
Each $3.50 Less 2% or..........................$3.50 NET

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**THE NEW TALKING TAPE**

Improved talking tape is made in six attractive colors to harmonize with the home furnishings. Brown, Ivory, Purple, Green, Black, Red. An indoor aerial to put up, 50-ft. length furnished in golden color only.

No. Length List Each
91597 100 ft. $1.00 $0.80
91598 50 ft. .80

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**RADIO LITE TENNA**
The Radio Lite-Tenna is the heart of radio reception. It is a combination reading light and aerial for the radio receiver. Just connect the Lite-Tenna into the nearest light socket and you are ready to tune your set with the most efficient aerial ever made. Cuts down local interference and gives you clear transmission. The Lite-Tenna is 10 inches high. Finished in old ivory with tinfoil shading. Amber shade and weighs 1½ lbs.

No. 96369 List $7.50
Each $4.50 Less 2% or..........................$4.41 NET

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**WIRT SUPERTONE IMPROVES RECEPTION**

The Wirt Supertone is sturdy and good-looking. It can be easily installed in a few minutes. Works equally well on any A.C. or battery set; and makes permanent reception improvement with practically no adjusting to meet changes in atmospheric conditions.

Supertone smooths out the wrinkles of imperfect radio reception. It gives a rounder, sweeter, clearer tone; it eliminates distortions of sound; and it makes for more accurate tuning, especially on special sets. In addition, Supertone damps static and other harsh noises. Over four years of experimenting and testing have been spent to perfect supertone. We now guarantee satisfaction.

No. 98544 List $2.50
Each $1.50 Less 2% or..........................$1.50 NET

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Satisfaction Guaranteed or Your Money Refunded
As distributors of RAYTHEON Products we can give you first-class service and prompt delivery. Our adequate stocks permit immediate shipment. NOTICE NEW REDUCED PRICE! Highest grade quality of proven merit.

CARTER "TU-WAY" PLUG
Takes two phone sets at one time. Fits all jacks. Well made.
No. 92457—List 60c. Each.

MUTER AERIAL PLUG
Replaces outside aerial, giving you noiseless and improved reception by screwing it into light socket. Made of highly polished black molded bakelite.
No. 93541 List. 75c. Each.

MAZDA PANEL LAMP
Miniature base, tubular shape. A very popular seller.
No. 95897 Type 6 volt Each
No. 96355 Type 2.6 volt Each

NEW CODE GROUND CLAMP
Made of heavy copper, fully approved. Two sizes.
No. 90246 ½ in. to 1 in. Each, 4c Per 100, $3.20
No. 92047 ¾ in. to 2 in. Each, 6c Per 100, $4.95

EKKO GROUND CLAMP
Makes perfect ground connection on any pipe up to ¾".
No. 92599 List, 10c Each

Spring Aerial
Spring aerials are in big demand. This one is made of a fine quality of brass and stretches to nearly 100 feet in length.
No. 91599 Each 10c Each 30c

HEADSET AND EXTENSION CORDS
High grade black mercerized cotton twist cords with soldered terminals and tips.
No. Type Length Each
92556 Head Set 5 ft. 10c
92557 Loud Speaker 5 ft. 15c
92558 Extension 50 ft. 65c
92553 Extension 50 ft. 60c
96951 Connector Only 9c

Freight Prepaid on All Orders of $50.00 and Over
TOBE "A" SUPPLY

Guaranteed For One Year

The new Tube "A" Supply will give a consistent, flawless performance because it is durably constructed of the finest materials, obtainable and engineered with great exactness. Nothing that can possibly improve the efficiency of a power supply has been spared in giving the public a product of great quality. Absolutely foolproof and fully guaranteed for one year.

No. 98484 List $35.00. Each $21.00.
Less 2% or, .................................................. $20.58

ABOX RADIO POWER UNIT

ABOX Radio "A" Power Units are the most advanced and reliable on the market. Require little or no attention and operate with a quietness heretofore unknown in radio.

ABOX MODEL 66 A UNIT

We are listing the ABOX A UNIT to take care of the demand for a separate A unit which Tablette is not including in their line of Power Units this year. Replaces batteries entirely and supplies "A" current direct from the light socket. The Ideal 6 volt "A" supply. For 110 Volt, 69 Cycle current only.

No. 98450 List $35.00. Each $21.00. Less 2% or, $20.58 NET

POWERIZER "GENERAL MODEL"

Converts any D. C. set or Radiola 20 into an A. C. set with X10 power tube amplification. Manufactured by pioneers in the radio field, the General Model Powerizer has the advantage of being a product of laboratory research, which has found it to possess great electrical and mechanical efficiency. Supplies A, B, C for A. C. tubes 326 and 327, and adds a X10 tube for power output. Uses 1 CX336 and 1 CX319 tubes. To be used with 60 cycle current. Size, 11 1/4" x 7 3/4" x 6 7/8".

No. 98555 List $4.00. Each (Tube and Accessories Extra) .................................................. $3.24

POWERIZER P D 5


No. 98566 List $6.00. Each (Tube and Accessories Extra) .................................................. $4.00

POWERIZER 25 OR 28 A C PACK

Converts a Radiola 25 or 28 or Victor or Brunswick combination with Radiola 25 or 28 A. C. operation and adds 210 power tube amplification. Looks like the Powerizer P D 5, with the exception of being about 3 inches wider. Has excellent constructional properties which insure smooth even operation. Uses 1 CX336 and 1 CX319 tubes. Adapted to 60 cycle current. Size, 19" x 3 5/8" x 6 5/8".

No. 98674 Radiola 25.
98674 Radiola 28.
Each (Tubes and Accessories Extra) .................................................. $50.40

POWERIZER JUNIOR

Here is a splendid "ABC" supply power pack, which can convert any standard D. C. set for A. C. operation. Incorporates the ideas in power pack construction of the foremost radio engineers of the day. Manufactured with the greatest precision and with the highest type of production facilities. And at a price that drives home the necessity of electric operation. Uses a CX399 tube, adapted to 60 cycle current. Size, 10 3/4" x 5 5/8" x 7 3/4".

No. 98568 List $35.00. Each (Tube, and Accessories Extra) .................................................. $21.00

POWERIZER "A"

A very economical "A" unit that supplies "A" and "C" current. When used with any "B" supply, converts any D. C. set for A. C. operation. Uses no tubes. Adapted for 60 cycle current. Size, 6 1/2" x 3 1/4" x 4 3/4".

No. 98569 List $12.00. Each (Accessories Extra) .................................................. $7.20

POWERIZER ACCESSORIES

Price Each

Type F A Adapter—Converts a standard U X Socket to take 2 U Y—227 tube .................. $8.65
52-17—Sub-panel type adapter for Radiola 16 set .................. $5.30
15 Volume Control—Controls input energy on Radiola 16 .................. $4.50
VP-1 Volume Control—Controls input energy on most standard sets .................. $1.98
"A" type harnesses for Powerizer "A" or "Junior" @ $0.65 per tube

No. 98459 List $12.00. Each (Accessories Extra) .................................................. $7.20

Satisfaction Guaranteed or Your Money Refunded
KUPROX "A" POWER UNIT MODEL 302-A

Constructed the same as the "A" power unit used in A.C. sets, only in addition to having the usual step-down transformer, it has a rectifier and filter, delivering perfectly smooth uniform current. Contains no tubes, no sinter and is dry of any liquids whatever. Tapped transformer and adjustable switch permits adjustment in correct voltage to meet individual set and line conditions. Can be used in conjunction with any standard "B" eliminator, having a receptacle into which the "B" eliminator is plugged in and current is controlled by a switch. Dimensions: 5 1/2" wide, 7 1/2" high, 1 1/2" long. Capacity 2 1/2 amps, operates 8 tube or smaller set. No. 90011 List $25.00

Each $21.00. Less 2% $19.50. Less 2% $17.50

KUPROX RECIFIER REPLACEMENT UNITS

TYPE A-110

The Type A-110 is used for replacing the electrolytic rectifying jass on Baktite, Stile and Vista triode chargers. Absolutely dry, silent, requires no attention and lasts indefinitely. To install, simply disconnect electrolytic jar set Kuprox A-110 in place of set, then connect to triode charger transformer and battery. Standard finish, cradled, olive green. No. 90001 List $5.00

Each $3.00. Less 2% $2.80

TYPE R-3

Designed especially for replacing rectifying jars in Philco socket power units. May also be used on other makes of units, 6 volt-triode chargers such as Gould Unisizer, Universal Radio, G & G Johnson, Stiletta, 75 amp. or on two wire telephones. Standard finish, cradled, olive green. No. 97109 List $5.00

Each $3.00. Less 2% $2.80

TYPE S-15

For replacing Tungar 1-amp. Trickle chargers, Philco, Rocker Powers, (Bulb Models) Millard Socket Powers, (Bulb Models), Exide Socket Powers (Bulb Models) Develops a higher charging rate with less current consumption, silent, and requiring little attention, it is indefinitely. Cannot be used for the B-100 radio transformers larger than 6 volts. Standard finish, cradled, olive green. No. 97179 List $5.00

Each $3.00. Less 2% $2.80

KUPROX REPLACEMENT UNIT FOR MAJESTIC "A"

The new Kuprox Type MA replacement unit attached directly to the rear of the Majestic "A" uses and occupies no more space than the unit it replaces. Nothing to wear out, break or get out of order. Gives smoother output, greater power and longer life. No. 90010 List $8.00

Each $4.80

KUPROX "B" POWER UNITS

MODEL 311-B

Operates all sets of six tubes and less with or without power tube. Adjusted to the individual output of the set at installation. Supplies "B" current only up to 15 M.A. at 45, 59 and 110 Volts. Dimensions: 4 1/2" wide, 7 1/2" high, 11 1/2" long. No. 90068 List $26.50 Each...

$15.90

CX 380 Rectifying Tube Extra

MODEL 310-B C

For large sets equipped with CX 312 or CX 271 Power tube. Has separate adjustment for detector voltage. Dimensions: 5 1/2" wide, 7" high, and 12 1/2" long. Supplies 20, 45, 67 1/2, 90 and 135 volts, together with 4 and 10 volts. "C"... No. 90007 List $35.00 Each...

$21.00

CX 380 Rectifying Tube Extra

MODEL 316-B C

For large receiving sets with C X 271 power tube. Supplies 22, 45, 67 1/2, 90 and 135 volts "B" together with 4 and 45 volts "C". Dimensions: 5 1/2" wide, 7 1/2" high, 12" long. No. 90019 List $37.50 Each...

$22.50

CX 380 Tube Extra

MODEL 314-B C

Designed for use with Radiola or other sets using 120, 220 and 250 volt 60 cycle current with special... dimensions: 6 1/2" high, 5" wide, 12 1/2" long. No. 90014 List $37.50 Each...

$22.50

CX 380 Tube Extra

MODEL 307 A B C

This combination of Models 302-A and 316 B C as shown in the first column and each part works as described therein. Dimensions: 10 1/2" wide, 7 1/2" high, 12 1/2" long. No. 90018 List $67.50 Each...

$40.50

CX 380 Rectifying Tube extra. Each $4.25. Each...

$2.75

KUPROX "ABC" POWER UNITS

This "ABC" power unit has the same design as the A C receivers except that the "A" power unit, supplies smooth direct filament current instead of fluctuating alternating current. This permits the use of standard tubes, such as CX 361-A, CX 322, etc. This power unit will be sold separately, the "A", "B" and "C" units, functioning independently of each other.

MODEL 306 A B C

For operation all 8 tube and smaller sets. Merely a combination of Models 302-A and 316 B C as shown and listed in the first two columns. Dimensions: 10 1/2" wide, 7 1/2" high, 12 1/2" deep. No. 90016 List $65.00 Each...

$39.00

CX 380 Rectifying Tube, extra. Each $4.25. Each...

$4.75

KUPROX DRY "B" REPLACEMENT UNIT

Replaces the watery acid jar on your electrolytic "B" eliminator. Gives greater output, more constant voltage and better performance. Easy to install. No tools required, and never a bit of attention necessary. For use on Philco, Westinghouse, and other electrolytic eliminators.

No. 90099 List $6.00 Each...

$3.60

CX 380 Rectifying Tube, 2.75

We Carry All Nationally Known Radio Lines
Sterling DRY "A"

The Sterling 6 volt Sterling Power Supply for any set. It delivers up to 15 watts at 6 volts and has a "B" receptacle for additional power requirements. Size: 4 1/2 in. x 3 1/2 in. x 1 1/4 in.

No. 96889 New Model complete with Rectifier.
List $32.00
Each $28.00

No. R-93 DRY "A" POWER UNIT

This unit has the same constructional qualities as the one listed above, excepting for a capacity for additional power. Delivers a regular 6 volt current at 3 amperes for a total of 18 watts. The R-93 is designed for use with the full wave Tungair Tungair which delivers a silent filament current. Size: 4 1/2 in. x 3 1/2 in. x 1 1/4 in.

Each $22.00

STERLING B-C'R-98

The Universal Model which will operate any radio set without hum. 150 volt maximum output. Supplies 40 volts C, independent and variable voltage regulators provided for both detector and R.F. A primary voltage control handle the control of voltage and R.F. Power voltages. Raytheon "B" approved. Stands comparison with any eliminator. 4 1/2 in. x 3 1/2 in. x 3 1/4 in.

No. 99481 List $33.00
Less Tube Each $28.00
No. 1970 Net $19.70

Raytheon "B" Tube Extra No. 93441 List $4.50 Each $2.79

STERLING RADIOOLA TEAM

These two units are sold separate and constitute a complete A and B supply for sets using 3 volt tubes and up to 15 volt EL "B". The R-93 (854) uses 3 amp. Tungair Tungair which delivers a silent filament current. Size: 4 1/2 in. x 3 1/2 in. x 1 1/4 in.

No. 96889 R-93 "A" Side...List $32.00 Each $28.00
No. 94355 Tungair Tube, 3/4, List $6.00 Each $4.50
No. 98388 RT-41 "B" Side...List $22.00 Each $18.00
No. 94971 CX-388 Cunningham

STERLING METERS

NEW AC Universal Tube and Circuit Tester

For complete AC testing; can be used in store or home service. Adapter plugs into sockets too small for sockets. Makes faults in sockets, wire, etc. Shows whether tube is good or dead. Should be in every shop for AC testing.

No. 8761 List $35.00
Each $21.00

AC Voltmeter R-417

Tests any AC circuit up to 150 volts. Indispensable for AC set testing.

No. 97034 List $7.50 Each $6.00

STERLING VOLTAGE STABILIZER R-115

The line voltage problem which has long plagued many with AC tube sets has finally been eliminated. Each R-115 is equipped Automatic Voltage Stabilizer, one can control the AC line supply regardless of how high or low the voltage runs, or how it fluctuates. Absolutely zero voltage current. It has removed the last obstacle in AC sets performance. Very easily installed, and having no movable parts, resistors, liquids or dry rectifiers, it requires little or no attention.

Size: 3 1/2 in. x 3 1/2 in. x 1 1/4 in.

No. 94168 List $24.00 Each $14.00

STERLING PRE-AMPLIFIER

The Pre-Amplifier, Sterling's new achievement, brings true, pure performance to old sets. It has been designed to connect to any A, B, or C, or 4, or 6 volt direct current set, without rebuilding, resoldering, or charging batteries or power packs. Reduces static, giving better tone, greater distance and selectivity. Uses one CX-322 screen grid tube. For use with any set using 301A, 295, C-11 or CX32 tubes.

No. 96834. List $12.50 Each $7.50

No. 571 CX-322 Tube, $4.23

STERLING AC TRI-POWER

The new and remarkable Sterling Tri-Power supplies "A", "B", and "C" voltages for A. C. Tubes to Radiola 16, Crosley Bandbox, Freed-Eisemann, Kolster, Falls, Stewart-Warner, Bosch, Sorens and practically any other set to 3 A. C. set. In 15 minutes you can convert these sets from D. C. to a full-fledged A. C. set. This is all done without extra wiring, batteries, without a lift, or wiring after-grief. A rugged, reliable and proven product.

SPECIFY MODEL AND MAKE OF SET.

COMPLETE WITH CABLE AND ADAPTER

Comes complete, nothing else to buy. Full instruction with each set. Raytheon Rectifier Tube EXTRA LIST.

No. 96895 List $28.00 Each $22.80

No. 9717 CX-322 Tube, $4.23
ELKON PRODUCTS

Elkon Dry Rectifiers are standard equipment on thousands of "A" eliminators and trickle chargers now in use. Keep Elkon Rectifier in stock this season. The replacement demand will be very large.

Type M-16
Type V-4

The Elkon type M-16 Rectifier may be used in the following "A" eliminators: Majestic, Elkon, Filico, Webster, Knapp, Fada, Sentinel, Bernard, General Instrument, Metro, and Macellan. A new rectifier makes the eliminator as good as new. Anyone can make the change.

No. 98436  List: $2.50 Each...Less 2%

Elkon Replacement Units for Baklite Trickle chargers and Baklite type J chargers are the only ones authorized by Panated Products Co., for replacing the acid jars in their units. The Elkon also increases the efficiency. Charging rate of Model N is increased to 1 amperes, Model K to 2 amperes, and the type J 3% on all charging rates.

No. 98458 Type BNK Baklite N and K Charger, List $5.00 Each...$3.00
No. 98459 Type BJ Baklite J Charger, List $7.50 Each...$4.50

THE GREENE LINE

GREENE "B" 5-6-7

Whirling nation-wide recognition as a sales leader. Hugs free, dry and vibrationless, it is guaranteed to improve reception and supply ample current for any type of power tube on 3 to 7 D. C. tube. A single control provides for all possible line variations. Completely and ruggedly constructed, it will last a life time. Dimensions, 3 1/2" wide, 9 1/2" high, 9 1/2" long. Complete with Rectifying Tubes.

No. 98195  List: $27.50 Each...$16.50 Less 2%

GREENE "A"

Really the last word in "A" socket power units. Vibrationless, hum-proof, adjustable, requiring no water or acid. It furnishes unfading A. C. light socket "A" power for all sets up to 10 D. C. tubes. Maximum output 500 milliamp, at 6 volts which is ample for all tubes including power tubes. Beautifully finished in an enameled rose-leaf green case. Dimensions, 2 5/8" wide, 9 1/2" high, 9 1/2" long. Complete.

No. 98195  List: $37.50 Each...$22.50 Less 2%

GREENE "B" HI POWER

This "HI" power is constructed for heavy duty purposes, furnishing power for all high voltage sets up to 10 D. C. tubes. Delivers full strength current, insuring constant controlled reception. No variable adjustment to confuse an untrained operator. Similar in size and design to "B" 5-6-7 unit.

No. 90197 List: $30.00 Each...$18.00 Less 2%

RECTOX Trickle Charger

Designed to meet the popular demand for a trickle charger. Will charge 6 volt storage batteries at two rates, namely 4 amp, and 8 amp. Adapted to use with control switches. Has standard maroon enamel case. Contains no bulbs, chemical or liquids or vibrating points. New copper oxide rectifier of rectification introduced by WESTINGHOUSE. Nothing to give trouble. Economical in operation. NEW TYPE WITH DOUBLE CHARGING RATE.

No. 96862  List: $11.50

TUNGAR BULBS

We carry both the old and new type G-E Tungar Bulbs. In the new type both contacts are made in the base, distinct from the old type which has external connection.

No. 94538 2 Amp. New Type...$4.00
No. 94556 5 Amp. New Type...$8.00
No. 94555 For Trickle Charger...4.00
No. 94559 2 Amp. Old Type...4.00

HANDY Metallic Rectifier Tube

Can be used with all makes of chargers, to replace Tungar bulb. Contains solid metallic dikes and is absolutely noiseless. Will deliver truly rectified current of 150 milliamp. for 6 or 4 volt type. Two types: Furnished with heavily nickedel case or open type without case. Has standard screw base.

WITH NICKELED CASE

No. 97237  List: $4.00
Each...$2.40 Less 2% or...
A FINE REPLACEMENT UNIT

MUZZLE CAP—Stops the Howl

This all-metal cap stops all howls on detector and audio tubes. Also stops vibration of filament.

No. Type Tube List Each 5 Lots 94680...306A, 201A, 115, 371...$0.25 $0.16 $0.15
94681...295, 299...$0.25 $0.16 $0.15

NEW!

Each...$2.40 Less 2% or...

FOR CHARGING RECEIVED

Freight Prepaid on All Orders of $50.00 and Over

MARCH Harrison Wholesale Co. Successor to Radio Accessorics of The Harry Alter Co. 1929
PHILCOTRON CELLS FOR REPLACEMENT

No. K463
For 6-Volt "A" Units. List $4.00

$2.60
Packed 4 to box, Less 2½%

No. K458
For 4-Volt "A" Units. List $3.00

$1.95
Packed 4 to box, Less 2½%

No. K457
For "B" Units. List $1.00

65c
Packed 4 to box, Less 2½%

ALARA RADIO

Hydrometer for "A" and "B" Batteries

Made from highest grade Corning Glass. Acid-resisting rubber insure long life. Every float guaranteed accurate.

Each 10 Lts. Per 100
No. 91684 26c 26c $2.50

Break-Not Hydrometer

Break-Not Hydrometers, are nationally known and advertised. Lower part of hydrometer made of unbreakable rubber. Glass is eliminated to a great extent.

No. 91688 List $1
Each 67c; 10 Lots 63c.

"BOSS" HYDROMETER

An accurate instrument with clear scale.

Each 10 Lots
No. 91687 List $.75... 43c 40c

BETTERBILT GLASS CASE
Trickle Charge Batteries

Betterbilt Glass Case Trickle Charge Batteries are made by one of the best known battery manufacturers in the country. These batteries will keep dry and clean permanently. Float balls show the state of charge at all times. Highly recommended.

No. Voltage Size List Each
96100 4 7x2x1x5/4... $7.50 7.50 $4.50
For Sets using 6 tubes or less
96101 6 10¾x3½x5/8... $12.50 7.50
For Sets using 8 tubes or more
96102 6 10½x3½x5/8... $19.00 8.34

SPECIAL RUBBER CASE BATTERIES

We can also furnish 10 amp. capacity batteries in rubber case for Trickle Charger use. Sturdily built. Size 5 ¾ in. long, 3 ¼ in. wide, 7 ¾ in. high.

No. Voltage
96122 4 $2.70
96123 6... Each

KATO "A" ELIMINATOR FOR 32 VOLT DIRECT CURRENT

Dealers: Here is something that will bring you new sales. An "A" eliminator for 32 volt lighting plants. Does away with storage battery or tapping on 3 cells. Connects directly to a lamp socket or a 32 volt farm lighting plant. Has patented safety protective coil, which prevents too high "A" voltage on radio set. Contained in steel cabinet 9 ½ x 8 x 7 ½. 8 ft. of cord. Fully guaranteed for one year

Radio Tubes List Each
97350 Kato 32 Volt "A"... 3 Volt $20.00
97351 Kato 32 Volt "A"... 5 Volt 20.00

KATO 32 VOLT CHARGER

Used for charging radio and storage batteries in connection with 32 volt farm lighting plants. Charges at rate of 3 to 4 amp. rate. Complete with ammeter.

No. 97352 32 Volt Charger. List $10.00 Each

Wirt AC Voltage Regulator

Protects your A.C. from line surges and makes them last longer. Very small, easy to use, and inexpensive. It is installed between the house current convenience outlet and the plug from the receiving set. Dealers can afford to give one away and the sale of a set to prevent service calls. Place your order today.

No. 94683 List $2.35 Each

BALKITE ACID

We can furnish electrolyte for Balkite Power Units in pint and quart bottles. An item every dealer should carry on his shelf.

List Each
91747 6 Oz. $0.75 $0.45
91748 1 Qt. 1.00 .60

Marathon Rectifier

Pitted with a standard screw base and is suitable for use in place of all 2-amp. bulb type charging devices, using a transformer with a secondary voltage of 15-18 volts under load. Has on connection on top, which is used in the same manner as a tube external connection. Furnishes single wave rectification at 2 amp. rate.

No. 97673 List $.40 Each $2.35
Less 3% or

Satisfaction Guaranteed or Your Money Refunded

16
THE NEW IMPROVED SUB-ANTENNA

This amazing device has proved its overwhelming superiority in contrast with noisy outside antennas whenever introduced. Positively nothing like it, despite claims made by imitators. Works on any type of set—and never fails—fully guaranteed.

**Positively Brings Distance** in Loud and Clear When Outside Antenna and Loop Fail

Test it—prove it yourself. Switch from old style aerial to SubAntenna on a "static-yyy" summer night. DX will come in loud and clear above the static. This makes most sets work as good in summer as in winter. Improves tone, increases volume. Stock Sub-Antenna—display it—sales come quick—and profits are generous.

<table>
<thead>
<tr>
<th>No.</th>
<th>Model</th>
<th>Description</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>9679</td>
<td>K3</td>
<td>specially designed for Awater Kout sets</td>
<td>$7.60</td>
<td>$4.60</td>
</tr>
<tr>
<td>9679</td>
<td>K4</td>
<td>specially designed for Major sets</td>
<td>$4.60</td>
<td>$4.60</td>
</tr>
<tr>
<td>9679</td>
<td>K5</td>
<td>specially designed for A. A. sets</td>
<td>$3.00</td>
<td>$3.00</td>
</tr>
<tr>
<td>9679</td>
<td>K6</td>
<td>specially designed for Crosley sets</td>
<td>$2.00</td>
<td>$2.00</td>
</tr>
</tbody>
</table>

**RELIABLE AUTOMATIC RELAYS**

The Utility Type is used for efficiency on sets using 4-7 tubes and its neat appearance and small size has made it a favorite everywhere. Two models.

<table>
<thead>
<tr>
<th>No.</th>
<th>Model</th>
<th>Volt</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>9649</td>
<td>14</td>
<td>3.00</td>
<td>$1.00</td>
<td></td>
</tr>
<tr>
<td>9688</td>
<td>14</td>
<td>3.00</td>
<td>$1.00</td>
<td></td>
</tr>
</tbody>
</table>

**RELIABLE CONVENIENCE TYPE**

The new 1927-28 Convenience Type is used with electrical and mechanical characteristics. Voltage drop of this relay is 1 volt per amperes used. Low resistance assures proper relay operation at all times.

<table>
<thead>
<tr>
<th>No.</th>
<th>Model</th>
<th>Volt</th>
<th>List</th>
<th>Each</th>
<th>Less 1%</th>
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<tbody>
<tr>
<td>9689</td>
<td>24 SA</td>
<td>3</td>
<td>$2.50</td>
<td>$2.50</td>
<td></td>
</tr>
<tr>
<td>9690</td>
<td>24 SA</td>
<td>3</td>
<td>$2.50</td>
<td>$2.50</td>
<td></td>
</tr>
</tbody>
</table>

**X-L LINK**

The only unit that completely links the radio receiver to the outer socket. The X-L Link supplies the following features to any radio receiver Antenna and ground from two terminals to unbalanced line, increases selectivity and reduces interference. Double socket outlet for dynamic speakers and power units. A positive line voltage regulator which gives absolute protection against excessive voltage and thus prolong the life of all tubes attached to the receiver in less than a minute.

<table>
<thead>
<tr>
<th>No.</th>
<th>List</th>
<th>Each</th>
<th>Less 2%</th>
</tr>
</thead>
<tbody>
<tr>
<td>9070</td>
<td>$5.75</td>
<td>$5.75</td>
<td>$5.75</td>
</tr>
</tbody>
</table>

**ACME RELAY**

The Acme Relay Switch can be used with both "B" eliminator and Trickle Charger or Trickle Charger alone. Automatic in operation. A very fine, compact relay unit, 4 ½" in diameter.

<table>
<thead>
<tr>
<th>No.</th>
<th>List</th>
<th>Each</th>
<th>Less 2%</th>
</tr>
</thead>
<tbody>
<tr>
<td>9042</td>
<td>$1.00</td>
<td>$1.00</td>
<td>$1.00</td>
</tr>
</tbody>
</table>

**BLITZ BATTERY CHARGERS for RADIO and AUTO BATTERIES**

**A SIZE CHARGER for EVERY SIZE BATTERY**

Bult with heavy duty transformer in different capacities for charging 1 to 5, 1 to 10 and 1 to 15 batteries at the lowest current cost. When current shuts off, the Blitz charge stops automatically when current is turned on, without affecting the charger or discharging the batteries. Operates silently. Bulb easily replaced with either 6 amper Tungar or Recticon Bulb. Double pole switch for turning charger off and on. Use needle for reading ammeter and heavy duty rheostat for regulating charging current. Has power box for line connections and wall mounting brackets.

<table>
<thead>
<tr>
<th>No.</th>
<th>Battery Charger</th>
<th>1-5 Batteries at 6 Amps.</th>
<th>1-10 Batteries at 6 Amps.</th>
<th>1-15 Batteries at 6 Amps.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Battery Charger</td>
<td>1-5 Batteries</td>
<td>38</td>
<td>53</td>
</tr>
<tr>
<td>Net</td>
<td>or 1-10 Batteries</td>
<td>50</td>
<td>55</td>
<td>65</td>
</tr>
<tr>
<td>or 1-15 Batteries</td>
<td>50</td>
<td>55</td>
<td>65</td>
<td></td>
</tr>
</tbody>
</table>

We Carry All Nationally Known Radio Lines
JEWELL METERS

JEWELL AC-DC SET ANALYZER
A radio set analyzer which is the most useful and reliable service instrument ever produced. Every test which will give information of the workings of a radio set and its accessories have been provided for. It tests A and C tubes, A and B plate circuits, plate milliammeters, chargers, line voltage, etc. Complete with instructions.

No. 97173
List $97.50
Each $73.12
Less 2% $71.34

JEWELL RADIO TEST BENCH
Designed for servicing radio sets on the dealers premises. Working surface is 30" high, size of surface 24"x24". Testing panel is steel black enameled with all markings engraved directly in steel and filled with white. Panel carries ten meters as follows: 0-7.5 volts DC; 0-75 Volts DC; 0-150-300-750 volts DC; 6-15-30 DC Milliammeters; 0-4-8-16 Volts AC; 0-150-750 Volts AC; and 0-1.5-15 Milliammeters. All meters can be used individually. Complete with plug and cord like the No. 159, and instructions.

No. 98300
Complete as shown ...........................................$278.50 $208.67
No. 98301 Panel Bench...........................................$212.00 $159.00

JEWELL TUBE CHECKERS
No. 159 A C CHECKER
Tests all tubes of 110 volt, 60 cycle tubes without resorting to batteries of any kind. In any phone circuits 110 volt, 60 cycle output. Comes complete with 4 prong adapter, compound filament resistor, 0-4-8-16 volt A C meter, and 0-15 milliammeter. Just the thing for counter checking.

No. 98302 Model 150...........................................List $98.99 Each $82.50
No. 110 A Tube Checker
Does it all that the No. 159 A C checker will do except it uses batteries in place of the 110 volt line current. Complete with instructions.

No. 98303 Model 110A...........................................List $45.00 Each $33.75

BEEDE SOCKET TEST METERS
Designed for making various test setups by removing the front socket and inserting meter base in its place.

No. Type ............................................. List Each
97267 0-25 A C Voltmeter ................................ $11.50
97268 0-300 D. C. Voltmeter ............................... 1.80
98462 0-600 D. C. Voltmeter .............................. 2.70
98463 0-60 D. C. Voltmeter ................................ 1.80
98474 Adapter for 97367 Meter ............................. .90

No. 97369 List 3.00,
Each $1.80 less 2% or .............. $1.00

NO. 40 BEEDE PORTABLE TESTER
Scale reads 0-300 Volts, 2-inch Dial, 16-inch rubber covered leads with phone tips. Just the meter for testing B eliminators and B Batteries.

No. 97369 List 3.00,
Each $1.80 less 2% or .............. $1.00

WESTON COUNTER CHECKER
A new distinctive counter tube checker for checking tubes at the time of sale. Operates directly from the regular A. C. 60 cycle lighting current. It will check all tube A. C. or D. C. including rectifier tubes. Very simple to operate. An item every dealer should own.

No. 98501 Model 539...........................................List $167.50 Each $110.00

WESTON COUNTER 528 AC PORTABLE INSTRUMENTS
Model 528 Voltmeters have been developed especially for testing A. C. operated radio sets. Scales are silver gray with black markings. Pair of 30" cables supplied with each voltmeter.

No. Range List Each
98592 150-15 Volts .................................. $13.50 $10.13
98593 150-6-4 Volts ................................... 16.50 $12.38

Satisfaction Guaranteed or Your Money Refunded
READRITE STORAGE BATTERY CHARGE TESTER
A new meter that tells instantly when your "A" Battery needs charging and when charging should be discontinued. Furnished in pocket type with Bingham Brush, most convenient and most economical way of testing "A" Batteries. Nickel finish.

No. 94609 List $1.00 Each .50

READRITE POCKET METERS
Exceedingly efficient pocket instruments with silvered metal dials and nickeled cases. Voltmeters of a very high resistance and give accurate readings without draining "D" Batteries. Absolutely guaranteed.

No. Volts Range Each
94601 Voltmeter...0-50 $1.00 .55
94602 Ammeter...0-40 1.00 .42
94603 Compt. Volt and Am...Ammeter Both...1.50 .75

READRITE PANEL TYPE METERS
Voltmeters have high improved resistance—
from 17 to 100 ohms per volt, yet are priced low. Very securely built and can be kept in circuit continuously. Narrow Range—Rear-cham p

94240 Voltmeter...$10
94239 Voltmeter...$9
94238 Voltmeter...$8
94237 Voltmeter...$7
94236 Voltmeter...$6
94235 Voltmeter...$5
94234 Voltmeter...$4
94233 Voltmeter...$3
94232 Voltmeter...$2
94231 Voltmeter...$1
94230 Voltmeter...50 Cent
94229 Voltmeter...50 Cent
94228 Voltmeter...50 Cent
94227 Voltmeter...50 Cent
94226 Voltmeter...50 Cent
94225 Voltmeter...50 Cent
94224 Voltmeter...50 Cent
94223 Voltmeter...50 Cent
94222 Voltmeter...50 Cent
94221 Voltmeter...50 Cent
94220 Voltmeter...50 Cent

READRITE PANEL TYPE METERS
Tests any type of tube either A C or D C and will do anything any other set analyzer will do. Contains nine interchangeable meters, a 3½" cord containing four and five prong adapters and enables you to plug into any type of set. Contains a powerful rheostat and the following meters:

0-10 Milliammeter, 0-10 A C Volts, 0-10 D C Volts
0-100 Milliammeter, 0-15 A C Volts, 0-50 D C Volts
0-300 Milliammeter, 0-15 A C Line Voltmeter, 0-500 B
Elim. Test

List $3.00 Each $1.50

$20.58

READRITE PORTABLE Voltmeter, for "B" Eliminator Testing
This high resistance voltmeter is used to check output of Eliminator and "B" battery circuits. Specially built for this work. Accurately shows voltages for detector, ampl. and power tubes, supplied with 2 cords 3½ long, one black and one red to show polarity. Tips are heavily insulated.

No. Volts Price
94699 0-300 $5.50
98709 0-300 $5.00
98711 0-150 A C $5.00

BEED TEST KIT
Complete with three socket test meters, line tester, and adapter, for connecting from four to five prongs. Dealers and repair men will find this kit extremely useful and adaptable to every necessary test on a radio set. Kit contains the following meters:
1 No. 60 0-7½ volts
1 No. 60 0-30 volts
1 No. 50 0-50 volts
1 No. 75 0-150 line tester

List $15.00 Each $5.90

$8.82

HOYT A C POCKET VOLTMETER
A compact, sensitive Voltmeter for measuring A C and D C. The three scales cover all filament voltages applied to the popular A C tubes, and provides a means of checking the voltage to a point. A resistance of more than 20 ohms per volt is supplied with a special leads and packed in a durable leather carrying case.

List $12.00 Each $6.00

$2.25

HOYT NO. 550 LINE VOLTAGE TESTER
Hoyt No. 550 Pocket A C Voltmeter is a special instrument for testing the line voltage in the electric-lighting system. Just about the size of a watch case. Comes complete with leads. Range 0-150 volts.

List $9.50 Each $5.75

$2.25

HOYT ROTARY METER
The Hoyt Rotary Meter is a precision 2½" moving coil volt-ammeter of unique and exceptionally useful. Combines all ranges necessary for testing radio set, tubes, batteries and battery chargers. The meter itself turns at five different positions thus giving the following ranges: 0-20-100 Million, 0-500 A mps and 0-10 200 volts. Dimensions are 4½ x 3½ x 2½.

List $19.50 Each $10.00

$19.50

READRITE NO. 210 TUBE CHECKER
Low cost of this efficient tube checker enables every dealer and set owner to make tests rapidly, match tubes and weed out weak tubes. Voltmeter and 10 milliamp. scale, Switch for new or pentodes.

No. Price
94697 Set $7.50 Each $4.50
94698 40° Cord and 0-150 $1.00 Each $.50
94699 Adapter for 399...List $6.00 Each .36

READRITE NO. 215 TUBE TESTER
For testing A C or D C tubes. Contains 0-8 high resistance voltmeter and double range 0-20-100 milliammeter with switch, complete with Pentodes. Just the thing for the dealer shelf and is connected to batteries.

No. Price
97390 Tube Tester $10.00 Each $9.00
97391 Cord for Adapting to D C Set...List $6.00 Each .36

READRITE SOCKET TESTERS
Readrite socket testers give actual working voltage by inserting a clip in the tube socket in place of radio tube.

No. Volts Price
97466 150 $3.00 Each $1.50
97467 150 $3.00 Each $1.50
97468 150 $3.00 Each $1.50
97469 150 $3.00 Each $1.50

List $5.50 Each $3.50

READRITE A C VOLTAGE REGULATOR
Needed on every set using A C tubes to protect against short life when subjected to excessive line voltage. Equipped with A C voltmeter and giant rheostat. Very simple to use and an investment that can't afford to be without. Complete with cord and plug.

List $7.50 Each $5.50

READRITE Testers available from the nearest radio dealer.
**Belden Aerial Extension Cord**

A handy 10 ft. extension cord with soft rubber plug on one end and Belden bakelite flexible type outlet on the other. The cord has an attractive rayon finish.

Stock No. 94331
List: $1.00 Each
...$0.67

**Belden Replacement Cord**

5 ft. speaker and headset cords. Conductors are 14/24 tinned stranded copper. Attractive individual cartons.

HEAD SET CORDS

<table>
<thead>
<tr>
<th>No.</th>
<th>Length</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>94529</td>
<td>10 ft.</td>
<td>$0.60</td>
</tr>
<tr>
<td>95100</td>
<td>20 ft.</td>
<td>$0.60</td>
</tr>
<tr>
<td>97491</td>
<td>40 ft.</td>
<td>$0.80</td>
</tr>
</tbody>
</table>

**Belden Aerial Lead-in Strip**
The flat copper tinned conductor of this rubber-insulated aerial lead-in strip is moisture and weatherproof. Fahnestock clips on both ends.

No. 96792
List: $0.25 Each
...$0.15

**Belden Battery Cord**

Colorless rubber insulated conductors with soldered ends to form terminals suitable for any binding post. Overall braid made of brown cotton. Length 54 inches.

**Belden Flat Floor Cord**

Is rubber insulated extension cord which lies flat under the rug. Makes ideal connection for floor lamps, radio, power units, electric phonographs, heaters, etc. 4 ft. cord to outlet.

**Belden Belden Extension Cord**

The Belden antennas provide a self-contained antenna and connects the lighting current to the set. At the receptacle end a lead is provided to attach to the antenna binding post of the set. No other antenna is necessary.

Stock No. 94530
List: $2.00 Each
...$1.20

**Belden Batteries**

Belden now supplies 3 distinct Aerial Kits every one of which is unique in its class. Dealers stock these kits. There is a battery for every kind offered by Belden. Each kit contains the very best of parts.

<table>
<thead>
<tr>
<th>No.</th>
<th>Kit Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96111</td>
<td>Beldenamal Kit...$2.50</td>
</tr>
<tr>
<td>96112</td>
<td>Beldenamal Jr. Kit...$1.50</td>
</tr>
<tr>
<td>96113</td>
<td>Bare Copper Kit...2.49</td>
</tr>
</tbody>
</table>

**Belden Flat Speaker Cord**

A flat 12 foot rubber insulated loud speaker extension cord equipped with a bakelite connector at one end and a 5 ft. flexible brown cord at the other. Lies flat under the rug and out of sight. Easily installed without use of tools.

No. 97494
List: $2.75 Each
...$1.65

**Belden Lead-in and Ground Wire**

Good rubber insulation which is readily removed and the copper is easily soldered. 250 ft. coils are wound on spools.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Length</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>94512</td>
<td>Cotton 125 ft.</td>
<td>$1.00</td>
<td>$0.65</td>
</tr>
<tr>
<td>94513</td>
<td>Silk 125 ft.</td>
<td>$1.75</td>
<td>$0.80</td>
</tr>
<tr>
<td>94544</td>
<td>Silk 150 ft.</td>
<td>$1.50</td>
<td>$0.80</td>
</tr>
</tbody>
</table>

**Indoor Aerial and Loop Wire**

A flexible covered wire designed for indoor aerials and winding radio loops. Does not stretch or sag and all covering is cotton or silk. Metal spools in individual cases.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Length</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>94514</td>
<td>Solid 150 ft.</td>
<td>$1.00</td>
<td>$0.65</td>
</tr>
<tr>
<td>94515</td>
<td>Solid 250 ft.</td>
<td>$1.25</td>
<td>$0.65</td>
</tr>
<tr>
<td>94516</td>
<td>Solid 325 ft.</td>
<td>$1.50</td>
<td>$0.65</td>
</tr>
</tbody>
</table>

**Belden Battery Cable**

A 5, 7, or 9 Conductor Cable which serves the same purpose as the Belden Belden Battery Cable except that it is supplied in 100 ft. coils.

<table>
<thead>
<tr>
<th>No.</th>
<th>Conductors</th>
<th>Length</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>94540</td>
<td>5-Conductor</td>
<td>100 ft.</td>
<td>$0.44</td>
</tr>
<tr>
<td>94541</td>
<td>7-Conductor</td>
<td>100 ft.</td>
<td>$0.44</td>
</tr>
<tr>
<td>94542</td>
<td>9-Conductor</td>
<td>100 ft.</td>
<td>$0.44</td>
</tr>
</tbody>
</table>

**Belden Flat Floor Cord**

Is rubber insulated extension cord which lies flat under the rug. Makes ideal connection for floor lamps, radio, power units, electric phonographs, heaters, etc. 4 ft. cord to outlet.

<table>
<thead>
<tr>
<th>No.</th>
<th>Length</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97070</td>
<td>1 ft.</td>
<td>$0.75</td>
</tr>
<tr>
<td>97071</td>
<td>2 ft.</td>
<td>$1.00</td>
</tr>
<tr>
<td>97072</td>
<td>3 ft.</td>
<td>$1.25</td>
</tr>
<tr>
<td>97073</td>
<td>4 ft.</td>
<td>$1.50</td>
</tr>
<tr>
<td>97074</td>
<td>5 ft.</td>
<td>$1.75</td>
</tr>
</tbody>
</table>

**Belden Flat Floor Cord**

Is rubber insulated extension cord which lies flat under the rug. Makes ideal connection for floor lamps, radio, power units, electric phonographs, heaters, etc. 4 ft. cord to outlet.
NEW BIRNBACH MOISTURE PROOF CORDS

Insulated with rubber to protect the copper strands from moisture. Covered with beautiful brown mercerized braid. High grade. Packed in individual spools of 100 feet.

**LOUD SPEAKER EXTENSION CORD**

<table>
<thead>
<tr>
<th>No.</th>
<th>Length</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96151</td>
<td>10 Ft.</td>
<td>$0.75</td>
<td>$0.65</td>
</tr>
<tr>
<td>96152</td>
<td>20 Ft.</td>
<td>$1.00</td>
<td>$0.95</td>
</tr>
<tr>
<td>96153</td>
<td>30 Ft.</td>
<td>$1.40</td>
<td>$1.35</td>
</tr>
<tr>
<td>96154</td>
<td>50 Ft.</td>
<td>$2.25</td>
<td>$2.20</td>
</tr>
<tr>
<td>96155</td>
<td>100 Ft.</td>
<td>$4.50</td>
<td>$4.45</td>
</tr>
<tr>
<td>96156</td>
<td>Connector only</td>
<td>$0.30</td>
<td>$0.25</td>
</tr>
</tbody>
</table>

**BIRNBACH SILK CORD IN BEAUTIFUL COLORS**

Now you can select a BIRNBACH CORD to harmonise with the color scheme of your home. Made in Old Gold, Maroon and White. A color to satisfy every possible taste.

<table>
<thead>
<tr>
<th>No. Type</th>
<th>Length</th>
<th>Color</th>
<th>Silk</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>97307</td>
<td>620</td>
<td>20 Ft.</td>
<td>White</td>
<td>$1.50</td>
</tr>
<tr>
<td>97308</td>
<td>620</td>
<td>20 Ft.</td>
<td>Old Gold</td>
<td>$0.90</td>
</tr>
<tr>
<td>97309</td>
<td>620</td>
<td>20 Ft.</td>
<td>Maroon</td>
<td>$0.90</td>
</tr>
<tr>
<td>97310</td>
<td>630</td>
<td>20 Ft.</td>
<td>White</td>
<td>$1.80</td>
</tr>
<tr>
<td>97311</td>
<td>630</td>
<td>20 Ft.</td>
<td>Old Gold</td>
<td>$1.14</td>
</tr>
<tr>
<td>97312</td>
<td>630</td>
<td>20 Ft.</td>
<td>Maroon</td>
<td>$1.14</td>
</tr>
<tr>
<td>97313</td>
<td>550</td>
<td>50 Ft.</td>
<td>White</td>
<td>$2.75</td>
</tr>
<tr>
<td>97314</td>
<td>550</td>
<td>50 Ft.</td>
<td>Old Gold</td>
<td>$2.65</td>
</tr>
<tr>
<td>97315</td>
<td>550</td>
<td>50 Ft.</td>
<td>Maroon</td>
<td>$2.65</td>
</tr>
</tbody>
</table>

**NEW BIRNBACH DYNAMIC CORD**

Now you can demonstrate the new Majestic, Crosby, or any other 100 Volt D Dynamic speaker having four pin tips at the end of the cord with dynamic extension cord. Comes complete with cord and two connectors.

<table>
<thead>
<tr>
<th>No. Type</th>
<th>Length</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97466</td>
<td>710</td>
<td>$1.50</td>
<td>$1.30</td>
</tr>
<tr>
<td>97467</td>
<td>711</td>
<td>20 Ft.</td>
<td>$2.00</td>
</tr>
<tr>
<td>97468</td>
<td>711</td>
<td>20 Ft.</td>
<td>$2.50</td>
</tr>
</tbody>
</table>

**REPLACEMENT CORDS**

- 6 ft. Brown Silk for Radiola Speakers...
- 6 ft. Brown Cord for Atwater Kent Speakers...
- Brown Cord for Crosley Speaker...
- Brown Cord for Atwater Kent Speaker...

**Loud Speaker Cord, 5 Ft. Long**

<table>
<thead>
<tr>
<th>No. Type</th>
<th>Pin Tips, each pair</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96157</td>
<td>5 Pin Tips, each pair</td>
<td>$0.75</td>
<td>$0.75</td>
</tr>
<tr>
<td>96158</td>
<td>Spade &amp; Pin Tips.</td>
<td>$0.30</td>
<td>$0.30</td>
</tr>
<tr>
<td>97316</td>
<td>Pin and Eye Tips.</td>
<td>$0.30</td>
<td>$0.30</td>
</tr>
</tbody>
</table>

**HEADSET CORDS, 5 FT. LONG**

<table>
<thead>
<tr>
<th>No. Type</th>
<th>Pin Tips, each pair</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96159</td>
<td>5 Pin Tips, each pair</td>
<td>$0.50</td>
<td>$0.50</td>
</tr>
<tr>
<td>96160</td>
<td>Spade &amp; Pin Tips.</td>
<td>$0.30</td>
<td>$0.30</td>
</tr>
<tr>
<td>97317</td>
<td>Pin and Eye Tips.</td>
<td>$0.30</td>
<td>$0.30</td>
</tr>
</tbody>
</table>

**BIRNBACH ACID-PROOF BATTERY CABLE**

Made of flexible stranded conductors, soldered lug terminals. Each conductor separate solid color. Packed individual cartons, 5 pounds, 10.5 feet long. Wire gauge of your choice available. A, B and C batteries or eliminator to set.

**BIRNBACH RIGA BATTERY CABLE**

Made of flexible stranded wires, and insulated with Colored Rubber. A Battery leads are made of heavier gauge conductors and assembled with storage Battery Clips. Other wires furnished with lugs, for connection to Riga battery cables.

**BIRNBACH RIGA BATTERY CABLE**

Made of flexible stranded wire with soldered lug terminals for connecting Dry Cell Batteries. Carton of 25.

<table>
<thead>
<tr>
<th>No. Type</th>
<th>Length</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96173</td>
<td>3 In.</td>
<td>$3.00</td>
<td>$3.00</td>
</tr>
<tr>
<td>96174</td>
<td>6 In.</td>
<td>$5.00</td>
<td>$5.00</td>
</tr>
<tr>
<td>96175</td>
<td>12 In.</td>
<td>$9.30</td>
<td>$9.30</td>
</tr>
</tbody>
</table>

**NEW HARRY ALTERS RADIO BOOK**

MARCH

**SUPER BALL ANTENNA**

The latest type of aerial built according to the most advanced principles for receiving all wave lengths. Will greatly improve selectivity and distance of your set. Will help you get stations you never heard before. Gives permanent satisfactory reception as the aluminum alloy will not rust or corrode. No wires to break or loose on the top of apartment buildings. Equal to 85 ft. of ordinary aerial wire. The two plate ball condenser inside tends to 200 Volts. Utilize the impedance to high frequency circuits.

**New Low Prices**

No. 92564 Super Ball Alone. List $7.95. Each $4.50 Less 2% or $4.41 Net

**BETTERBILT Globe Antenna**

The Betterbilt Globe Antenna gives any radio set selectivity, better volume, and greater distance due to low power loss—"bunched capacity," and the aluminum alloy construction. Receives all wave lengths—short or long—with exactly the same time efficiency. Has a conductive surface of 348 square inches—equal to that of 76 ft. wire aerial. Tangle free guy wires give this aerial an additional vertical pickup capacity, as illustrated in the diagram. The condenser built in inside acts as a neutralizer for the complete antenna system, and clarifies the tone. Fully guaranteed and sold at a remarkable low price.

| No. 97414 | Each $1.50 | Less 3% or $1.47 Net |

**BASE and PIPE for Super Ball and Betterbilt Globe Antenna**

No. 92565 Buss and guy wire collar...$0.50 $0.50
No. 92588 1/4" Pipe, 10 Feet...1.00 $0.90

**BIRNBACH A-C FLEXIBLE HOOK-UP WIRE**

Made up of fine strands of copper twisted together and covered with colored rubber insulation. Will stand high voltage.

| No. 97413 | 25 ft. Coll Red Wire. List $8.00 | Each $1.48 |
| No. 97415 | 25 ft. Coll Black Wire. List $8.00 | Each $1.48 |

**BIRNBACH CORD TIPS AND CABLE LUGS**

Nickel plated tips and lugs for replacing old terminals and cable ends.

| No. 97417 | 4 Pin Tips in Envelope, Per Envelope...$0.03 |
| No. 97418 | 10 Lugs in Envelope, Per Envelope...$0.06 |

**BIRNBACH RIGA BATTERY CABLE**

Made of flexible stranded wires, and insulated with Colored Rubber. A Battery leads are made of heavier gauge conductors and assembled with storage Battery Clips. Other wires furnished with lugs, for connection to Riga battery cables.

**RADIO BATTERY CONNECTOR**

Made of flexible stranded wire with soldered lug terminals for connecting Dry Cell Batteries. Carton of 25.

| No. 96173 | 3 In. | $3.00 |
| No. 96174 | 6 In. | $5.00 |
| No. 96175 | 12 In. | $9.30 |
HARRY ALTER'S RADIO BOOK

HACO GLASS INSULATORS

Haco insulators insure minimum energy losses. Sturdy, well-built 3 1/2 inches long. Packed two in a carton. All guaranteed first.

No. 98533 Per Pair, List 25c.

10 Pair Per Pair 11c

APPROVED LIGHTNING ARRESTER

For Outdoor and Indoor use. 3/4" long. Air-gap type is positive in action. Brown.

No. 91783 List Each $0.35

GUARDIAN APPROVED LIGHTNING ARRESTER

Waterproof barrel construction with cleanable carbon brushes. Brown porcelain shell 4 1/2" long. The ultimate in quality.

No. 91784 List Each $0.45

Belden LIGHTNING ARRESTER

Air gap type. Thoroughly sturdy and reliable for installation either inside or out-of-doors. Approved by Underwriters.

No. 96124 List Each 42c

JEWEll LIGHTNING ARRESTER

Glazed porcelain case for indoor or outdoor use. Easily mounted. Approved by Underwriters.

No. 94673 List Each $0.75

IMPROVED LIGHTNING ARRESTER

An indoor or outdoor arrester of the air-gap type. Sealed up in porcelain case. Easily installed and affords complete protection. Approved by Underwriters. List price $0.60.

No. 91672 Each $0.11 10 Lots $0.10

UNIVERSAL Battery and Radio Clips

Universal clips come in handy for testing, for service work and on installations. We save always—have an assortment on hand. Dealers can’t get along without them. Our low prices on these high-grade “Universal” clips are hard to beat. We carry a complete assortment.

<table>
<thead>
<tr>
<th>Nickel Plated—Pee Wee Size</th>
<th>91851 1/4&quot; 1 1/2&quot; 4 1/2&quot; 3 c 3 c</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel Plated—Large Size</td>
<td>91852 3/8&quot; 9 1/2&quot; 8 1/2&quot; 7 1/2 c</td>
</tr>
<tr>
<td>Lead Plated—Small Size</td>
<td>91868 3/4&quot; 1 3/4&quot; 5 1/2 c 3 1/2 c</td>
</tr>
<tr>
<td>Lead Plated—Large Size</td>
<td>91863 1&quot; 2 1/2&quot; 8 c 7 c 6 c</td>
</tr>
<tr>
<td>Lead Coated—GiAnt Size</td>
<td>91850 1 1/2&quot; 3 1/2&quot; 16 c 14 c 12 c</td>
</tr>
</tbody>
</table>

GLASS INSULATORS

Glass insulators insure perfect insulation and minimum energy losses. Its smooth surface prevents accumulation of dust. A very popular seller. Eyebolt on each end for faster wire.

3 1/2" GLASS INSULATOR

No. 91632 Each 6c 10 Lots 5c 100 Lots $4.65

4 1/2" GLASS INSULATOR

No. 91619 Each 8c 10 Lots 7c 100 Lots $6.60

BELDEN GLASS INSULATORS

A sturdy glass insulator 3 inches long, packed two in a carton.

No. 97496 List Each $0.25

PORCELAIN INSULATORS

Porcelain is and always will be the ideal insulator. Our stock of these insulators is large. Send us your orders.

No. 91625 L0t Per

No. Length Each 10 Lots 100 100

91625 2 1/4" $0.02 3/4" $0.02 3/4" $2.55 $2.10

91630 3" .05 .043 3.85

PORCELAIN RADIO KNOBS

Sturdy, well-built Porcelain Knores, which are mounted on heavy galvanized screws. Strong and of lasting quality.

No. Porcelain Screw

90171 Small 1 1/2 in. Each $0.65

90174 Small 6 in. .01 1/2 .35

FEDERAL PORCELAIN NAIL KNOBS

These knobs are exceptionally sturdy and tough, made of high grade glazed porcelain. Used to run the lead in from the serial.

No. Each Per C Per M

90101 Nail Knob .00 1/4 7c 2.22 $10.75

90106 Solid .85 .85 7.62

We can supply these knobs and ship at low prices. Write us for prices.

DOUBLE THROW SWITCHES


No. Pole Throw List Each

93441 Single Double .80 .60 .36

93442 Double Double .48 .85 .48

93443 Triple Double .125 .125

93444 Five Double .200 .120

MUTER BABY KNIFE THROW SWITCHES

Ideal for base or panel mounting. Black bakelite base, Highly nickleid brass contacts with insulated handles.

No. Pole Throw List Each

98170 Single Single $0.15 $0.15

98171 Double Double .20 .20

98181 Double Double .40 .24

Satisfaction Guaranteed or Your Money Refunded
AERIAL KITS

STANDARD KIT
1. No. 1581 7-22 Stranded No. 37 -100 Ft. Coll $1.57
3. No. 2435 15½ Meter Window Lead-In $10.00
4. No. 1784 Miter Guardian Lightning Arrester $10.00
5. No. 7249 Morris Ground Clamp $10.00
6. No. 1622 3½ Glass Insulators $10.00
7. No. 191 Porcelain Nail Knots $10.00
8. No. 6 Screw Eyes #20 $1.57
9. No. 190 Bore Diameter 1/8 in. $1.47

HACO SPECIAL KIT
Same as our Regulation Kit, but without lightning arrester. A splendid value.

No. 91797 77¢ 75¢ 89¢ 84¢ 10 Lots

REGULATION KIT
A most popular kit that represents an exceptional value. High-grade material throughout.

No. 91798 $1.57 $1.47 Each 10 Lots

AERIAL WIRE

100 Foot Coils

BARE COPPER AERIAL WIRE
100 Ft. Coils

No. 91582 7-24 Stranded 27¢ 25½¢ 10 Coll. Lots
91581 7-22 Stranded 39¢ 37¢ 10 Coll. Lots
91580 Solid No. 14 33¢ 31¢ 10 Coll. Lots

STRAINED ENAMEL AERIAL WIRE

No. 91575 7-24 Stranded 35¢ 33¢ 10 Coll. Lots
91577 7-22 Stranded 50¢ 48¢ 10 Coll. Lots

INSULATED LEAD-IN WIRE
Rubber Covered Without Braid

50 FT. COILS 1,000 Ft.

No. 91566 18 1-64 Stranded 24¢ 23¢ Each 10 Lots Spools
91567 16 1-32 Stranded 30¢ 29¢ $4.98
91574 14 1-32 Solid 30¢ 29¢

Genuine New Code No. 14 R. C. With Braid
14 1-32 Solid 36¢ 34¢

HIGH GRADE BELL WIRE

With double wrapping of cotton wound in opposite direction on solid No. 18 wire. Colors do not fade. A handy article for all-purpose wiring.

No. 90947 ½-lb. single... 19¢ 18¢
90948 1 lb. single.... 37¢ 35¢

INSULATED STAPLES

Recognized as the finest staples on the market.

No. 95330 1⅛ in. 12¢ $1.05
95331 ⅛ in.

PORCELAIN BATTERY SWITCH

No. Pole Throw Sets 10 Lots
90928 Single Single... 90¢ 90¢
90929 Double Double... 1.50 1.50

BETTERBILT BALL AERIAL KIT
A New idea in Ball Type Aerial for improved reception. Much easier to install than a wire aerial and is less subject to atmospheric disturbances. The polished aluminum surface stays bright under all weather conditions. Ball 10" in diameter. Comes complete with all necessary parts, including roof bracket. Very easy to install.

No. 98531 List $5.00
Each $2.50
Less 25¢
or...

However, Prepaid on All Orders of $50.00 and Over
Ramco Radio Furniture

**MODEL 1**
A simple, yet appealing console at a price so attractive that one cannot resist the temptation to dress up his receiver. Made of selected American walnut with imported overlays. Dimensions: 21 1/2" wide, 37" high and 13" deep. Set compartment dimensions: 19" wide, 7 1/2" high, and 11 1/4" deep. Equipped with Utah Power Motor (Magnetic) speaker.

Utah Dynola (Dynamic) Speaker $18.00 Additional

**MODEL 27**
Here we have something in a table speaker that will blend with the furnishings of any room and the tone quality of the receiver. Many of these speakers are in use today and are selling rapidly. Made of selected walnut and American gumwood. Equipped with Utah Dynola (Dynamic) 110 volt A. C. type speaker. Size of top, 30" by 16", 30" high.

No. 98023 List $78.00 Each $42.00

**MODEL 54**
What charm this Spinet Desk type speaker could lend to a receiver with its delicate, refined beauty! Made of the finest walnut trimmed with rosewood, burl walnut and satinwood with sides of figured mahogany, it is a work of art. Dimensions: 32 1/4" wide, 40" high, 16 1/4" deep. Size of set compartment: 29 1/4" wide, 9 3/4" high, 13 1/4" deep. Equipped with Utah power motor (Magnetic) speaker.

No. 98025 List $64.00 Each $38.40

**MODEL 37**
How's this for utility? A speaker, holding table and book rack. Just the thing for the well-furnished room. Conservatively, yet beautifully designed and constructed. Are going over big this season. Made of selected walnut and American gumwood. Size 30" wide, 30" high, 16" deep. Equipped with Utah Dynola (Dynamic) 110 volt A. C. type speaker.

No. 98024 List $75.00 Each $45.00
CASWELL RUNYAN

When speaking of quality radio furniture, the name of Caswell-Runyan commands immediate respect and attention. Ever since radio stepped out of the cat’s whisker stage, they have been creating beautiful cabinets to house receivers. And as radio has progressed in attaining its smooth perfection of today, so have Caswell-Runyan cabinets. Today Caswell-Runyan cabinets are not merely beautiful pieces of wood—they are an expression. They embody the beautiful essence of radio.

**CONSOLE No. 25**

This console is really the last word in wood-work design. Delicately carved curves and grooves, it reaches the apex of harmony. Not only does it possess rare beauty, but utility as well. It is also a writing desk and is worth the price in that capacity alone, so consider what a selling point its economy would be. Undoubtedly, it would add personality to any room or receiver.

Made of selected walnut, quarter sawed figured Red-Gum, and five-ply figured Rotary Veneer with Overlays of ¾” five-ply Diamond Matched Oriental Walnut on Doors and drawer front. Installation panels furnished for any standard makes of sets. Dimensions: 52½” high, 33” wide, 20” deep. Set Compartment dimensions: 28” long, 9¾” high, 14½” deep.

No. 96690 Cabinet Without Speaker. Each

$67.20

Less 2% $79.20

Less 2% $76.80

Less 2% $74.50

Less 2% $89.50

---

**CONSOLE No. 35**

Another sample of Caswell-Runyan’s advanced ideas in cabinet construction. Designed specially for the discriminating buyer, who can recognize value. The top is of five-ply four-way matched Butt Walnut Veneer. The ends are of five-ply figured Rotary Walnut Veneer, the panels having overlays of ¾” five-ply Diamond matched Satinwood Veneer. Top doors slide back. Finished with three coats of Lacquer rubbed. Dimensions, 33” wide, 9¾” high, 13¾” deep. Accommodate any standard make of set.

No. 96695 Cabinet Without Speaker

$43.20

Less 2% $43.20

Less 2% $43.20

Less 2% $43.20

---

We Carry All Nationally Known Radio Lines
The “Seville” Combination Radio and Phonograph Console

Here is a sterling value in a console with an electric phonograph motor and pick up all ready to play, at a price that one would have to pay for an ordinarily good radio console. As a piece of furniture, it ranks high by virtue of its sturdy construction and artistic design. Its dignified beauty suggests a Spanish grandeur of another century. Truly, a bit of artistry that would make a splendid addition to the beauty of any living room. The doors are of matched burr walnut with imported overlays, offsetting beautiful brass ornaments. The legs are tastefully carved and finished and are braced by a matched stretcher. Furnished with either a Utah Dynamic or Utah Magnetic Speaker. A Johnson Induction electric motor and pick up, off and on switch, and two beautifully bound record albums. Measures 50"x29½"x16½" deep.

No. 98030 With Utah Magnetic Speaker. List $115.00. Each. $78.60 Less 2%  
No. 98031 With Utah Dynamic Speaker. List $150.00. Each. $93.00 Less 2%

“The Deauville”

An exquisitely beautiful console of marked French design, that will lend a touch of artistry to any surroundings. And as a housing chamber for a radio receiver, nothing could be more appropriate. Furnished with either the Utah Dynamic or Utah Magnetic Speaker, which is, needless to say, one of the finest line of reproducers made, a tone of remarkable clarity, is certain. The console is made of selected 5 ply walnut, with doors of burr walnut and maple overlays. Beautifully carved embellishments blend harmoniously with background. Measures 50"x27½"x16½" deep.

No. 98032 With Utah Magnetic Speaker. List $94.00. Each. $56.40 Less 2%  
No. 98033 With Utah Dynamic Speaker. List $118.00. Each. $70.80 Less 2%

“The Lyric”

A handsomely designed, open front console that would make a magnificent setting for any receiver at a price that would appeal to any purse. The cabinet has walnut top, front and ends, and legs are of selected gumwood, artistically finished and decorated. The front panel is made of a newly discovered African wood, Avodire, which adds sparkle to the console. The panel, except for the appropriately carved speaker grille, is plain and has a highly decorative border. Furnished with either a magnetic, air column, or Temple Dynamic Speaker, each one with a “rep” for faithful reproduction. Outside dimensions are 41½" high, 24" wide, and 15½" deep. Speaker chamber is 19½"x11½"x10¾" deep. Set compartment measures 19½"x10½"x10½".

No. 98034 With Magnetic Speaker. Net $31.95  
No. 98035 With Air Column Speaker. Net $41.16  
No. 98036 With Temple Dynamic Speaker. List $70.00 Each $41.00.  

NEW MODEL AC 171
8 Tube Completely Electrified

For the public who demand better reception in A. C. sets, Dreadnaught has responded with a set that is amazing in power and tonal receiver. No effort or expense was spared in the engineering of this receiver, in order to make it one of the finest sets of the day, and we are safe in saying this set will delight the ear of the most critical. A positive sales booster!

Rigidly constructed of heavy gauge, drawn and welded steel, housing all component parts including power pack, illuminated single drum, operated by a bakelite knob, which makes possible extreme selectivity and easy tuning. A smooth regular current is an attractive feature of the set by the use of a type CX 380 filament rectifier tube. A Hi-lo switch in transformer primary unit does not permit deviation from proper amount of power, through voltage variations. Type CX 326 tube are used for the radio frequency and audio circuits, type C 327 for detector and two type CX 371 A tubes for power amplifier circuit. Finished in bronze Duco lacquer. Panel is 7"x18", finished in a natural grain burl walnut.

CHASSIS ONLY (including power pack less tubes)
No. 96524 List $85.00 Each, $51.00
Less 2% or .................................................. $49.98 NET

If the above set is desired in a cabinet, the WAINRITE solid walnut table model with decorative strips along top and bottom makes a very appropriate setting for the Model A C 171.

Table Model including power pack less tubes.
No. 96525 List $95.00 Each, $57.00
Less 2% or .................................................. $55.86 NET

Wasmouth-Goodrich Radio Furniture
Made by masters of the woodworking craft who KNOW 1929 requirements. This magnificent furniture is so carefully detailed that the effect is one of perfect grace to harmonize with the modern surroundings.

THE MADRID TABLE
Made in a beautiful walnut finish. The gracefully arched brace between the inclined legs is an arrangement characteristically Spanish. Contains Peerless Magnetic Speaker. Accommodates any type radio receiver. Height, 29"; Width 30"; Depth 14".

Furniture of the Highest Type

THE SEVILLE
This highly decorative walnut Radio Chest is attractively overlaid in ruffled maple. The fluted corner posts, the fluted legs, the turned stretchers, and the graceful brackets at the top give this very practical Radio Chest the unmistakable character of the English cabinet work of the James II period. Equipped with RCA 100-A speaker. Accommodates any make of radio receiver. Height 42"; Width 32"; Depth 16".

No. 96601 List $45.00
Each $50.70. Less 2% or .................................. $49.69 NET

Equipped with RCA 100-A SPEAKER

Freight Prepaid on All Orders of $50.00 and Over 27
ACE CHASSIS
FOR CABINETS and CONSOLES
MODEL 77

The ACE Chassis is in every respect identical with the table model, but is furnished with a regulation 7"x18" front panel. This panel is very artistically finished in grain design and will match any console. Same ONE-Dial control. Same shielding of all parts. Same compact construction.

Will Fit Any Standard Cabinet or Console
The chassis is exactly 3 1/2" deep and front panel measures 7"x18" making it ideal for any ordinary console. The room occupied by the controls on front panel measures 6"x9" and will therefore fit any fancy front panel cut-out with this opening.

FOR TUBE KIT SEE ABOVE

Chassis Only with 7"x18" Panel

Table Model in Metal Cabinet
No. 98089 List $75.00 Each $45.00 Less 2% or
$44 Net

One Dial Control
One dial controls all tuning and the volume control takes care of oscillation as well as volume. Truly a quality prod-

TUBES REQUIRED
Tube kit consists of 3 CX326, 1 327, 2 CX371A and 1 CX380. Cunningham's.
No. 98090 List $20.00 Each $13.33 Less 2%.

A COMPACT, EFFICIENT, MODERN AND REAL ELECTRIC RECEIVER
Entirely self-contained
NEW 1929 MODEL
PUSH PULL AMPLIFICATION
A perfectly engineered electric set, employing the latest innovation in a strictly electric receiver that runs directly from 110 volt A C current. Particular emphasis has been placed on unexcelled tone quality, bringing out every feature of broadcast in a faithful manner. The naturalness of reproduction takes you right into the presence of the broadcaster.

It's an attractive radio set in a most pleasing metal cabinet that measures 17 3/4" in width, 9 1/2" in depth and 8" in height. Extreme selectivity is accomplished by careful construction and selection of best materials obtainable. Complete shielding of all parts—no exposed wiring. A masterpiece of design. Three stages of tuned R. F. amplification, in-
cluding tuned impede-
ance coupling, detector and two stages of L F.
Push Pull Amplification.

NOTICE
Finder-Ring Tube Sockets

Satisfaction Guaranteed or Your Money Refunded
CONSOLES

ACE A C 7 IN MODEL 24 CONSOLE

The Model 77 Ace All electric receiver in this beautiful console is one of the finest and most economical de luxé radio outfits we have to offer. The console is equipped with the Utah power motor (magnetic) speaker, which, needless to say, is one of the finest line of speakers on the market. With this combination of superb reception, rare eye beauty, marvelous tonal quality and such amazingly low price, it can be counted on to go over the top. The console is a very artistically designed affair of selected American walnut, trimmed with burl and striped walnut for effective highlightting. Embellished in Carpathian elm and burl mahogany. Doors are of the sliding type. Outside dimensions are 24 3/4" wide, 16 1/2" deep and 40" high. Cunningham tubes extra.

No. 98095 List $130.50, Each $78.20
Less 2% or ........................................ $77.73

DREADNAUGHT A C IN MODEL 24 CONSOLE

Quality is the keynote here! The 8 tube Dreadnaught A C which the world has been quick to recognize as a receiver of the first order. In the Model 24 console, makes this a veritable giant of beauty and power. Its cost is little in comparison to the brilliant quality manifested here. Just demonstrate this combination to any prospect and you can count on a sale. Cunningham tubes extra.

No. 98096 List $114.50, Each $66.70 Less 2% or .......... $84.97

EQUIPPED WITH UTAH DYNAMIC SPEAKER

These models can also be obtained equipped with the Utah 110 volt A C Dynamic speaker, which is unquestionably the finest speaker that the radio world has ever heard. You will be amazed at its reproduction. Add $18.00 to the net price of the set you desire.

ACE A. C. 7 IN MODEL 25 CONSOLE

The splendid Ace A. C. 7 in this monarch of artistry really makes this a radio that would enhance the beauty of the most harmonious interior decorations. Just picture this console in the living room of your home. Its gracefully carved lines and curves carry one back to French nobility in the early eighteenth century. Comes equipped with Utah Power Magnetic Speaker. Cunningham tubes extra.

No. 98070 List $149.50, Each $89.70
Less 2% ............................................ $87.91

DREADNAUGHT A.C. IN MODEL 25 CONSOLE

The Dreadnaught 8 Tube A. C. Receiver can also be had in this beautiful French Console, thus combining beauty with increased tone quality and performance. Also equipped with Utah Power Magnetic speaker and priced less Cunningham tubes.

No. 98071 List $164.50, Each $98.70
Less 2% ............................................. $96.73

CONSOLE ONLY

This console can be obtained without the receiver equipped with the Utah Power Magnetic speaker. Will take any set with a 24-inch panel or less.

No. 98035 List $79.50, Each $47.70
Less 2% ............................................ $46.74

The Utah A. C. Dynamic speaker can also be obtained in all the above consoles. Add $13.00 to the net price of the combination desired.

We Carry All Nationally Known Radio Lines
ADLER-ROYAL Model 207 Console

WITH BUILT IN SPEAKER

The world has gone modernistic, and demands of every object d'art to express itself in cubes, squares and angles. Simple—yes, but quite beautiful and expressive in its conservativeness, and still at the same time smart—a product of the times.

The Adler-Royal console shown here was designed with this motif in mind. Note the simplicity of construction. Everywhere, angles and straight lines, boxes and triangles—no curves. That's modernism for you. The doors are beautifully finished with Satinwood veneers, the rest is of selected walnut veneers. Equipped with either the Utah magnetic or dynamic speaker, in built, assuring an unsurpassed excellency of tone. Will accommodate most of the standard sets. Dimensions of console are 43 3/4" high, and 25 5/8" wide and 16 1/2" deep.

No. 98045 Model 207 With Utah Magnetic Speaker.
List $82.00. Each $49.20. Less 2% or

No. 98046 Model 207 With Utah Dynamic Speaker.
List $106.00. Each $66.66. Less 2% or

$48.22
Net

$63.60
Net

CASWELL RUNYON

Consolette No. 15

Here is a genuine Caswell Runyon Console made of the finest four way butts walnut, finished in burl and constructed proportionally. Equipped with either a Utah Magnetic or Dynamic speaker. Measures 45" high by 25" wide by 15" deep. Will accommodate any set with up to an $8 1/2"x21" panel.

No. 98047 With Utah Magnetic Speaker.
List $50.00.
Each $27.50. Less 2%.

$26.95
Net

ACE A.C. 7 IN CASWELL RUNYON No. 15

Here is a beautiful combination of the new 1929 model Ace All Electric receiver in the No. 15 consolette. In this combination heights of reproduction and beauty never before attained have been reached. Also equipped with Utah Power Magnetic Speaker. Less Cunningham tubes.

No. 98072 List $120.00.
Each $72.00.
Less 2%.

$70.56
Net

DREADNAUGHT A.C. IN CASWELL RUNYON CONSOLETTE No. 15

To increase the quality of the DeLux radio outfit the Dreadnaught $8 tube, all electric receiver is the unit selected to be the heart of this beautiful console. We highly recommend this magnificent combination. Furnished with Utah Power Magnetic speaker. Less Cunningham tubes.

No. 98073 List $135.00.
Each $81.00.
Less 2%.

$80.38
Net

The Utah Dynamic Speaker can be obtained in all the above consoles. Add $15.00 to the net price of the combination desired.
THE ASTON CONSOLE

There are countless sets made by amateurs, that are mechanically perfect and have a tonal quality that would delight the ear of the most critical connoisseur, but to look at them they are an eye-sore. This robs a radio of its charm. The console pictured here could add beauty to any receiver and brighten up any room. The entire front is of 5 ply—100% butt buri walnut, with a satin-wood overlay on the doors. There is a beautifully curved border around the side panels giving it a highly artistic effect. The legs are also delicately carved, braced by a curved stretcher, adding strength to the console. The doors slide back, revealing a 12½ in. opening for dials and a speaker grille finished in French Polychrome. The entire console is a durable, artistic affair, worthy of the highest type receiver. Will accommodate any standard set, including an R. C. A.

DIMENSIONS:
Cabinet Size: 35” high, 35” wide, 18½” deep
Set Compartment: 11” high, 31” wide, 13” deep
Mounting Panel: 11” high, 12” wide
Speaker Compartment: 14” high, 31” wide, 8½” deep
Aston Console with Utah Magnetic Speaker. List $140.00.
Each, $84.00. Less 2½%, or... $82.32 Net
Aston Console with Utah Dynamic Speaker. List, $160.00.
Each, $96.00. Less 2½%, or... $94.08 Net

Open View

Wasmouth-Goodrich Radio Furniture

Made by masters of the woodworking craft who KNOW 1928-29 requirements. This magnificent furniture is so carefully detailed that the effect is one of perfect grace to harmonize with the modern surroundings.

THE SEVILLE

Equipped with RCA 100-A SPEAKER

This highly decorative walnut Radio Chest is attractively overlaid in rippled maple. The fluted corner posts, the fluted legs, the turned stretchers, and the graceful brackets at the top give this very practical Radio Chest the unmistakable character of the English cabinet work of the James II period. Equipped with RCA 100-A speaker. Accommodates any type radio receiver. Height 42”, Width 32”, Depth 16”.

No. 96601
List $84.50
Each $50.70. Less 2½% or........................ $49.69 Net

THE MADRID TABLE

Made in a beautiful walnut finish. The gracefully arched brace between the inclined legs is an arrangement characteristically Spanish. Contains RCA 100-A Speaker. Accommodates any type radio receiver. Height 29”, Width 30”, Depth 14”.

Equipped with RCA 100-A SPEAKER

No. 96600
List $45.00
Each $27.00. Less 2½% or.......... $26.46 Net

Freight Prepaid on All Orders of $50.00 and Over
THE EMPIRE CONSOLE

There has always been an existing demand to give a radio receiver a setting, befitting its position as a piece of artistry. The objection was always the high prices, that were asked for consoles. Inasmuch, as they weren't an absolute necessity, the desire was suppressed. In the Empire console, shown here, we have overcome that objection. We are listing a beautiful piece of furniture equipped with a Farrand magnetic speaker at a price that would have to be paid for a fairly decent speaker alone. The console is made up of 5 ply, walnut veneered top and sides, with beautiful carved, gum-wood legs, and equipped with baffle board. Measures 36½” high, 21½” wide and 15” deep. Accommodates any size panel up to 19½” wide by 11” high by 14” deep, but is shipped for 7x18 panel unless otherwise specified.

THE REGAL TABLE

An unusually attractive table speaker, at a price that belies the marvellous quality of tone and decoration. But here are the facts. The speaker is of the power magnetic type, which reproduces with exceptional naturalness and clarity. This, of course, accounts for the tonal value of the Regal.

This appealing bit of radio furniture is made up of 5 ply top and sides, finished in walnut. The legs are of selected gumwood, very artistically carved and finished. The front panel, sets off an attractive silk grille, and also acts as a wonderful baffle for the Temple Dynamic speaker, which can also be furnished with this table. Measures 30” high, 30¼” wide, and 14” deep.

No. 98570 With Power Magnetic Speaker, Each $10.75.
Less 2% or...........................................$1053 NET

No. 98571 With Temple 110 Volt A.C. Dynamic Speaker, Each $24.00.
Less 2% or...........................................$2352 NET

FRITTS SUPER CABINETS

THIS is a high-grade solid walnut cabinet, very artistically finished. The decorations are polychrome and the top and sides are slightly raised for panel effects. Nickel piano hinge and a substantial lid top. Decorative strip along top of panel. All cabinets are 12” deep from panel to back.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Depth</th>
<th>List</th>
<th>Less 40%-10%</th>
<th>Each</th>
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<td>94950</td>
<td>7x12&quot;</td>
<td>12&quot;</td>
<td>$21.50</td>
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<td>23.50</td>
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<td>94953</td>
<td>7x26&quot;</td>
<td>13&quot;</td>
<td>23.00</td>
<td>12.42</td>
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<tr>
<td>94954</td>
<td>7x28&quot;</td>
<td>12&quot;</td>
<td>24.00</td>
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<td>13&quot;</td>
<td>25.50</td>
<td>13.77</td>
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</tbody>
</table>

WAINRITÉ CABINETS

Wainrite cabinets are well made employing the very best of material. Made of poplar finished with walnut. Has full piano hinge and lid stay. Decorative strips along top and sides of panel. 7x14 size popular for short wave kits. Quality cabinets at popular prices. Depth 12 inches.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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<th>Each</th>
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<td>98012</td>
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<td>7.88</td>
</tr>
<tr>
<td>98018</td>
<td>7x30</td>
<td>17.00</td>
<td>8.63</td>
</tr>
</tbody>
</table>

Satisfaction Guaranteed or Your Money Refunded
With few exceptions, we pay all the freight on RADIO orders for $50 or over—a new, big saving that practically makes our catalog prices F. O. B. your station.

If You Want Your Orders Shipped by Express or Parcel Post, We Allow You What THE FREIGHT WOULD BE

WE PAY ALL THE FREIGHT in all states except the few distant ones listed below. WE PAY HALF FREIGHT in the following states, on orders for $50 or over. After your shipment arrives, return your freight bill to us and we will refund you half the amount of the bill.


EXCEPTIONS TO THIS BIG OFFER.—Our freight offer does not cover orders made up entirely of A batteries; or B batteries in lots of more than 10; or wire and insulators in large quantities.
**Brunelli-Jones BATTERIES**

**UPRIGHT TYPE 45 VOLT “B” BATTERY**
Here is a large size B Battery, that will outlive any other “B” Battery on the market because of the fact that it has an apportioned cell space. Very sturdily constructed of materials which assures greater power output. Equipped with Fahnestock clips. Most up-to-date engineering facilities, result in a battery of the highest electrical and mechanical efficiency. Line up with Brunelli Jones—the grand combine of quality merchandise and low cost will make for quick turnover.

<table>
<thead>
<tr>
<th>No. 96454</th>
<th>45 Volt</th>
<th>Each $1.45</th>
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</thead>
<tbody>
<tr>
<td>Less 2% or</td>
<td>$1.49 Net</td>
<td></td>
</tr>
<tr>
<td>5 Lots Each</td>
<td>$1.45 Net</td>
<td></td>
</tr>
</tbody>
</table>

**“A” BATTERY**
This is an “A” battery which will undoubtedly appeal to the set owner as an efficient, convenient “A” cell. As for performance and longevity there is nothing manufactured that will compare with it. Its shelf life is of extraordinary length. Every battery goes through a thorough test before leaving the factory.

<table>
<thead>
<tr>
<th>No. 94650</th>
<th>Each 25c</th>
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</thead>
<tbody>
<tr>
<td>10 Lots</td>
<td>Each 24c</td>
</tr>
</tbody>
</table>

**“C” BATTERY**
A great little “C” battery that is sure to keep its strength for a great length of time. Constructed of materials that produce a greater output of power, and thoroughly tested against any defect. They will undoubtedly move fast this season.

<table>
<thead>
<tr>
<th>No. 94656</th>
<th>4½ Volt</th>
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<tbody>
<tr>
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<td>Each 23c</td>
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<td>5 Lots</td>
<td></td>
</tr>
</tbody>
</table>

**EXTRA HEAVY DUTY “B” BATTERY**
This super-giant size battery has more than twice the capacity of any ordinary sized battery. The multi-tube sets of today require an extra sturdy oversize battery which is really the more economical in the long run. Will last over a great period of time and produce a greater rate of electrical efficiency. Profit by selling this oversize battery.

<table>
<thead>
<tr>
<th>No. 94655</th>
<th>$2.02</th>
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<tbody>
<tr>
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<tr>
<td>5 Lots</td>
<td>$1.95</td>
</tr>
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<td>Less 2% or</td>
<td>Each</td>
</tr>
</tbody>
</table>

**BRUNELLI-JONES SQUARE-CELL “B” BATTERY**
In this “B” Battery Brunelli-Jones employ the latest construction idea in having the “B” battery contain square cells in place of cylindrical cells. This utilizes (see diagram) all available space, allowing room for more current generating materials per cubic inch than in any other B battery ever produced. This, of course, means better life, greater efficiency, and consequently customer’s satisfaction and more sales.

<table>
<thead>
<tr>
<th>No. 94694</th>
<th>Size 8 ½”x7 ½”x4 ½”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each $2.84</td>
<td></td>
</tr>
<tr>
<td>Less 2% or</td>
<td>Net</td>
</tr>
</tbody>
</table>

**FLEWELLING SHORT WAVE ADAPTOR**
This device is constructed for the purpose of adapting any receiver to short waves, which assures reception of DX. This contrivance has been publicly tested and has decisively proven its ability to adapt any receiver to be able to pick up DX clearly. The Flewelling short wave adaptor makes this possible. It is very easy to install. Change tube from detector socket and aerial to adaptor and you are ready to tune. A 20 to 30 meter coil, a 30 to 40, and a 40 to 70, supplied with adaptor.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>$9639</th>
<th>For D. C. Sets</th>
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<td>$9879</td>
<td>For A. C. Sets</td>
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<tr>
<td></td>
<td></td>
<td>List $22.50</td>
<td>Each $13.50</td>
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<tr>
<td></td>
<td></td>
<td>Less 2% or</td>
<td>Net</td>
</tr>
</tbody>
</table>

Satisfaction Guaranteed or Your Money Refunded
NEW BRIGHT STAR AMPLIPOWER "B" BATTERY

For the first time a definite grade of service capacity. Guaranteed to give satisfactory service for one year from date of purchase. A positive assurance of more than twice the service ever before obtained from any Heavy Duty B Battery. Packed three to a standard package. Weight 62 Lbs. No. 96469 List $6.00.

Each, $3.95
Std. Pkg. $24.00

BRIGHT STAR HEAVY DUTY "B"

We recommend Heavy Duty Batteries because they are of a quality second to none. This battery contains extra large cells and more active material, which provides the extra power and long life necessary for the economical operation of receiving sets. Lasts much longer and costs much less per operating hour than smaller "B" and ordinary batteries.

No. 20-60 Std. Pkg. of 6 Vertical Type 45 Volts List $4.75
15-50 Each $3.60
STD. PKG. ...

BRIGHT STAR 45 VOLT "B"

Built on the hand-made Bag Type principle, using the best of chemicals and material, with constant care and supervision. Tapped at 22½ volts, and provided with three brass screw terminals.

Std. Pkg. Type Volts List Each Pkg.
39-95 5 Vertical 45...$2.75 $1.94 $1.80
39-05 3 Horizontal 45...$2.75 $1.94 $1.80
39-05 3 Portable 45...$2.75 $1.72 $1.60

BRIGHT STAR 22½ VOLT "B"

Bright Star 22½-volt batteries are made in several different sizes, suitable for both standard and portable sets. Small size may also be used as a 22½-volt C battery.

LARGE SIZE

Std. No. Pkg. Type Volts List Each Pkg.
15-00 10 Vertical 22½...$2.00 $1.12 $1.04
15-05 5 Horizontal 22½...$1.50 $0.85 $0.71

SMALL SIZE

15-05 5 Horizontal 22½...$1.75 $1.01 $0.97

BRIGHT STAR DRY CELL

Recommended for use on the Radio "A" current as well as being admirably adapted for ignition and all other purposes for which Dry Cells are used. The Bag Type construction employed is greatly superior to the construction ordinarily used. Longer life and greater recuperative power.

No. 96468 List $9.60 Each $0.31

BRIGHT STAR "C"

Prolongs the life of the "B" Battery and improves the quality and amount of reception. Has three terminals giving voltage of 1½, 3 or 4½ volts.

Std. No. List Each Pkg.
71-71...$0.90 $0.34 $0.31
15-05 Pkg. of 5—1½ Volts...
15-05 1½...$1.01 $0.91
Std. Pkg. of 5—22½ Volts...
7103...$40 28c 26c

MAJESTIC POWER UNITS

MAJESTIC SUPER "B"

The market standard in the "B" Eliminator field. Will deliver current for loads up to 12 301A tubes or equivalent. Two variable output controls make a simple adjustment and insure long life. Four terminals. Dimensions: 10½"×5½"×9". Cabinet finished in rich black crystal enamel. Complete with extension cord. OUTPUT—50 Mils at 180 Volts.

No. 94979 Complete with Majestic Super-Power B Rectifier Tube. List $29.50 Each $17.70 Less 2% or...

WITHTUBE

$17.35

MAJESTIC MASTER "B"

The precision "B" Power Unit. Control of all 3 output voltages insures the best possible results. RATING—60 Mils at 180 Volts.

No. 94989 Complete with Tubes. List $32.50 Each $19.50 Less 2% or...

MAJESTIC DRY "A" (For A. C. 60 Cycle Current)

Furnishes "A" current direct from light socket for sets of from 5 to 8 tubes instead of power tube. MAJESTIC "A" is absolutely "dry" in construction using no acids or liquids whatever. It has no hum when in operation. Maximum Output, 2½ amper at 6 volts. Equipped with rheostats for regulating voltage and electro-magnetic cutout to prevent excessive voltage applied to tubes. Has Receptacle for "B" Eliminator.

No. 94998 Majestic Dry "A" List $39.50. Each...

$23.70

Immediate Delivery on These Units

Freight Prepaid on All Orders of $50.00 and Over
Why Not Use the

~BEST~

We Give You Benefit of All Reductions in Price

QUALITY OUTPUT TUBES

For Use Only in the Last Stage of Audio Frequency

CX220

Dry Battery Amplifier Tube, plate voltage, 155 volts. Maximum plate current 30 ma. Recommended voltage of 225 volts for operation. For aubulous type, "C" base is required. Filament operated parallel with remaining tubes. Fits only CX sockets.

No. Type Volt Amp. List Each

CX112A ... 6 $0.125 $2.50 $1.63

CX322

New Screen Grid Radio Frequency Amplifier. Maximum Plate voltage 155 volts. For specially designed circuits only. Has extra connection through metal cup at top of glass bulb. Must have 15 ohm resistor (tapped), 2.5-3.5 volt filament, 1000 ma. Recommended voltage of 9 volts. Especially recommended for TRP circuits.

No. Type Volt Amp. List Each

CX112A ... 6 $0.125 $2.50 $1.63

NEW SHIELDED GRID TUBE

CX322 New Screen Grid Radio Frequency Amplifier. Maximum Plate voltage 155 volts. For specially designed circuits only. Has extra connection through metal cup at top of glass bulb. Must have 15 ohm resistor (tapped), 2.5-3.5 volt filament, 1000 ma. Recommended voltage of 9 volts. Especially recommended for TRP circuits.

No. Type Volt Amp. List Each

CX322 ... 6 $0.125 $2.50 $1.63

RECTIFYING TUBES

CX380 New FULLY WAVE Rectifier with a maximum voltage output of 155 milliamperes. Has new, oxide-coated ribbon filament of great ruggedness.

No. Type Volt Amp. List Each

CX380 ... 6 $0.125 $2.50 $1.63

CX381 New SINGLE WAVE Rectifier with a maximum D.C. output of 110 milliamperes. Requires a 1.05 volt zener diode. Type CX381 and CX381R are interchangeable type. Special units required for delivery of increased output.

No. Type Volt Amp. List Each

CX381 ... 7 $1.25 $7.25 $4.71

NEW CUNNINGHAM A. C. TUBES

The new CX326 and C327 A. C. Tubes permit the use of unrectified alternating current supplied through a step-down transformer and dispense with customary filament current supply by battery. Rectifying devices and filter systems, Type CX326 is a 110 volt raw A. C. filament tube drawing a current of 1.05 amp, and has type and primarily intended as detector tube, used with CX366. Requires 1.75 amp at 65 volt a. c. Type C327 employs a specially-designed base.

CX-326 New A. C. Tube

No. 94977 List $2.00 Each...

C-327 A. C. Detector, 5-prong

No. 94976 List $3.00 Each...

Satisfaction Guaranteed or Your Money Refunded
THORDARSON ELECTRIC MFG. CO.

THORDARSON TRANSFORMERS

These transformers (input and output) are the correct type to use with the popular 310 Power Tube, with its high voltage rating. The quality of these transformers is reflected in improved tone quality.

No. Type List Each
93970 Tapped No. T-2406 ... $8.00 $4.80
96701 Output No. T-2420... 8.00 4.80

THORDARSON FILAMENT HEATER TRANSFORMERS

Type T-2445 is used to supply proper voltages to the new AC tubes—CX326, X327, UX125, and UX127. Built with the customary THORDARSON precision.

No. Type List Each
96763 T-2445... $8.00 $4.80

THORDARSON Z-COUPLE

Thordarson Z-Coupler is a special coupling device designed for use with the screen grid tubes. Designed as a replacement item for receivers employing weaker forms of audio amplification. Will improve any receiver in selectivity, sensitivity, and volume.

No. 97426 List $12.00 Each $7.20

New-300 Amplifying Transformer

A "laboratory model" transformer, fully enclosed in beautiful finished case. Provides unusually smooth amplification curve.

No. 93389 Type R-300... ...List $8.00 Each $4.00

THORDARSON POWER TRANSFORMER

These two transformers (input and output) are the correct type to use with the popular 310 Power Tube with its high voltage requirement. The quality of these transformers is reflected in improved tone quality.

No. Type List Each
96702 Tapped R-6... $6.00 Each $3.60

THORDARSON AUTOFORMER

An impedance coupled transformer giving unusual clarity and good volume. It is an all-frequency amplifier and should not be confused with transformer coupled amplification.

No. Type List Each
93938 Type R-76... $5.00 Each $3.00

THORDARSON POWER TRANSFORMER

These two transformers (input and output) are the correct type to use with the popular 310 Power Tube with its high voltage requirement. The quality of these transformers is reflected in improved tone quality.

No. Type List Each
96700 Output No. T-2406... $8.00 $4.80
96701 Output No. T-2420... 8.00 4.80

SPEAKER COUPLING Transformer

Designed as output transformer to protect speaker from high voltage used with 371 and 310 tube. No. 96702 Type R-76... List $6.00 Each $3.60

THORDARSON AUTOFORMER

An impedance coupled transformer giving unusual clarity and good volume. It is an all-frequency amplifier and should not be confused with transformer coupled amplification.

No. Type List Each
93938 Type R-76... $5.00 Each $3.00

THORDARSON FILAMENT HEATER TRANSFORMER

Type T-2445 is used to supply proper voltages to the new AC tubes—CX326, X327, UX125, and UX127. Built with the customary THORDARSON precision.

No. Type List Each
96763 T-2445... $8.00 $4.80

SPEAKER COUPLING Transformer

Speaker Coupler transformers to connect power tubes to Dynamic and cone speakers.

No. Type List Each
97427 To couple one CX350 to high impedance speaker... $12.00 Each $7.20
97426 To couple one CX350 to dynamic speaker...
97425 To couple one CX310 to high impedance speaker...
97424 To couple two CX350 tubes into a Dynamic...
97423 To couple two CX310 tubes into a Dynamic...
97422 To couple two CX310 Tubes into a Dynamic...

Write for descriptive literature and prices on Thordarson's complete line of Power Amplifiers.

HARRY ALTER'S RADIO BOOK 1929

POWER COMPACT R171 & R210

Thordarson Power Compacts have greatly amplified the building of "14" supplies and power amplifiers. It is a complete foundation unit that has high efficiency and is silent in operation. Complete Kit listed below.

Thordarson Power Compact R-171. A complete unit for Raytheon BH Power Tube.
No. 93470, R-171... List $15.00 Each $9.00

Thordarson Power Compact R-210. For use with CX 351 and 310 Power Tube.
No. 93495, R-210... List $20.00 Each $12.00

Thordarson Power Compact R-280. For use with CX 310 tube.
No. 93449 R 280... List $17.00 Each $10.20

POWER SUPPLY TRANSFORMERS

Full information on the use of the following Thordarson will be mailed on request. Their use is necessary whenever more than 1 power tube (371 or 310) or 1 rectifying (381) is used.

T209—For 2 CX310 or CX381 Tubes:
No. 96704... List $20.00 Each $12.00
T209—For single CX350 Tube Amplifier:
No. 97428... List $20.00 Each $12.00
T209—For CX350 Push-Pull Amplifier:
No. 97429... List $29.00 Each $17.00

DOLE FILTER CHOKE

T209—Used with the above Power Supp Y Transformers:
No. 96706... List $14.00 Each $8.40

R-196-30 HENRY CHOKE COIL for use in filter circuits with "14" END Power and power amplifiers.
No. 93934... List $5.00 Each $3.00

THORDARSON OUTPUT RESISTORS

These two special voltage divider resistors and kit are designed especially for the use with the R-171 and 210 Power Compact.

No. Type For Use with List Each
96709 R-508-41 R-171 $12.15 $7.29
96710 R-508-3445 R-210 4.00 2.40
96749 R-308-210 and 250... 9.75 5.85

POWER INPUT PLUG R-172

This plug makes a convenient method of connecting the power amplifier to the receiver. 2 ft. cord.

No. 96711 Type R-172... List $1.00 Each 60c

POWER PACK R-171

All parts used in this kit are official and approved by Thordarson. Use 311 Power Tube and Raytheon BH Tube.

1 Thordarson Power Compact R-171
1 Thordarson Output Choke R-106
1 Thordarson Resistance Unit R-508-1
1 "P" Condenser Block (Tube or Potter)
2 Mfd. Condenser (Tube or Potter)
2 Demagnet CX Socket Set
1 Thordarson Input Plug R-172
6 Battery Bindings

No. 95049 Complete with book of instructions. List $33.15 Each $23.44
Less 2% or...

METAL BASEBOARD ASSEMBLY

NEW POWER PACK 210

New official THORDARSON Metal Baseboard Assembly makes it easy to construct this efficient Power Unit.

Complete Parts
1 Thordarson Compact R210 $20.00
1 Thordarson Steel Chassis IX211 5.00
1 Thordarson Resistance Kit R-508-3445 4.90 2.94
1 Thordarson Coupling Transformer R76 6.80 4.00
1 Thordarson Output Choke R-127 15.00 10.80
1 Tube 210 Condenser Block
No. 97205 Complete Kit...

Leas 2% or $32.94 NET
TELEVISION APPARATUS

We are offering this page of apparatus to meet the demand for EXCEPTIONAL TELEVISION EQUIPMENT. New items will be added from time to time as they are announced by the manufacturer. This merchandise is not subject to return for credit or replacement.

DAVEN TELEVISION AMPLIFIERS
A resistance coupled unit — the last word in faithful television reproduction. All clips and binding posts are heavily nickelized. Comes completely wired, nothing else to buy.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98289</td>
<td>3 Stage</td>
<td>$12.50</td>
<td>$8.12</td>
</tr>
<tr>
<td>98489</td>
<td>4 Stage</td>
<td>$17.50</td>
<td>$11.38</td>
</tr>
</tbody>
</table>

DAVEN AMPLIFIER TUBES FOR TELEVISION
Designed and built for television and are considered by leading engineers to be the best for the purpose intended. They should not be confused with the ordinary "all purpose" tube.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-6T1</td>
<td>Output tube in series with television lamp, 26 ma.</td>
<td>$2.25</td>
<td>$1.69</td>
</tr>
<tr>
<td>MU-69</td>
<td>Amplifier tube for detector and stages preceding output tube</td>
<td>$2.50</td>
<td>$2.62</td>
</tr>
<tr>
<td>98481</td>
<td>Output tube in series with television lamp, 30-14 ma.</td>
<td>$2.50</td>
<td>$2.62</td>
</tr>
<tr>
<td>98482</td>
<td>Television lamp, 26 to 80 milliamperes, striking voltage 150. Picture appears as if plate in center of tube, size 1½ x 1½&quot;.</td>
<td>$15.00</td>
<td>$9.37</td>
</tr>
</tbody>
</table>

All Daven tubes have a four-prong bakelite base which fits any standard socket.

DAVEN SCANNING DISC
Daven Scanning Discs are accurately milled to prevent distortion. Furnished in the following sizes:

<table>
<thead>
<tr>
<th>Size</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-24</td>
<td>$5.00</td>
<td>$3.25</td>
</tr>
<tr>
<td>T-48</td>
<td>$10.00</td>
<td>$6.50</td>
</tr>
</tbody>
</table>

DAVEN BUSHINGS
Bushings to fit ⅛", ⅜" or ½" motor shaft. State size.

<table>
<thead>
<tr>
<th>Size</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98299</td>
<td>$1.00</td>
<td>$0.65</td>
</tr>
</tbody>
</table>

TELEVISION RECEIVER
The Daven Television Receiver has been designed to assist the dealer in the sale of Daven Television Apparatus. It is a complete receiver, wired ready to receive pictures. Comes complete with neon lamp, motor, bushings, knobs, estat cables, T4 amplifier, and either a 24, 36, 48 or 48 hole scanning disc. Be sure to state size of disc when ordering.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98483</td>
<td>Complete less Amplifier Tubes</td>
<td>$125.00</td>
<td>$81.25</td>
</tr>
</tbody>
</table>

RAYTHEON KINO-LAMP
The Raytheon Kino-Lamp is simple in construction and operation. The clear glass bulb contains two flat metal plates placed parallel and quite close together in an atmosphere of neon. Plates measure 1½" square. If a voltage greater than 250 is impressed on the plate, the negative glow has a vivid salmon pink light. This light increases or decreases in intensity due to amplified signals. It is the varying light, in conjunction with the holes in the revolving scanning disc of the television apparatus which permit light dots into a living image on the plate. Requires a working voltage of about 32 volts. Complete instructions with each tube.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98277</td>
<td>Kit $7.50</td>
<td>$450.00</td>
<td>$42.25</td>
</tr>
</tbody>
</table>

Baldor Television Motor
The ideal television motor. Silent in operation and free from hum. The speed of the motor can easily be changed to order that satisfactory results are obtained. 110 volt, 60 cycle. Shipping weight 35 lbs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98289</td>
<td>Each $2.00</td>
<td>$24.00</td>
<td>$23.52</td>
</tr>
</tbody>
</table>

Television Type Clarostat
A low range Clarostat of the power type, ranging from 5 to 500 ohms, for controlling television motors. Sturdily built, even, velvet control. One-hole mount.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98586</td>
<td>Each $2.99</td>
<td>$25.50</td>
<td>$2.28</td>
</tr>
</tbody>
</table>

National Scanning Disc
Accurately machined from 1/16" aluminum sheet with square light openings counterbored on one side to increase illumination. ½" shaft. Furnished in 24 and 48 hole.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98191</td>
<td>Each $15.00</td>
<td>$97.50</td>
<td>$9.75</td>
</tr>
</tbody>
</table>

Twin Coupler Short Wave Kit
Twin Coupler Coils plug into an ordinary-prong socket and make perfect contact. Dimensions are small, ¼" in diameter and only 1½" high; losses have been kept down by winding on a ribbed form of phenolic. Each coil is fitted with a different colored pull-out ring which makes quick and easy identification of the different wave lengths. Range from 17 to 500 meters.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98276</td>
<td>Each $4.50</td>
<td>$41.00</td>
<td>$4.50</td>
</tr>
</tbody>
</table>

Satisfaction Guaranteed or Your Money Refunded
X-L Neutralizing Condenser

For use in Neutrodynes, Browning-Drake, Roberts' McMurdo Silver's and similar condensers.舒心's required. Extreme micrometer adjustment.

No. 93520 Model N. List $1.00. Each $0.90

X-L Variable Grid Condenser

Designed to insure correct and permanent value for any tube or circuit within its range. Used in Super-Het, replacing fixed condensers. Complete with grid lead clips.

No. Capacity List Each
93288 .00002 to .0001 $1.50
93289 .0001 to .001 $1.50
93290 .001 to .005 $1.50

Wasp Short Wave Set

The Wasp Short Wave Set is very easy to build and a wonderful performer. Can be used for wireless as well as broadcast reception on short wave. Uses the well known Twin Coupler Plug in Coils. Great distance in the short wave band can be had with this kit. Here's the season's biggest seller. No. 94948. Completely packed at the factory. List $32.50. Each $26.10 Less 2% or $19.70 NET

Shield Grid Tube Kit No. 222

Twin coupler Tuned Radio Frequency Impedance Units are of the Plug in type, easiest to wire. Completely shielded in aluminum containers, beautifully finished in dull black lacquer. These coils can be built into either A.C. or Battery Operated Sets.

No. 98547 List $12.50. Each $7.50. Less 2% or $7.35 NET

Television Speed Control Clarostat

Stepless, positive foot proof speed control for scanning disk motor. Controls universal or condenser motors up to 1/4 horsepower. Also push button control. Dissipates 80 watts.

No. 98543 For A.C. or D.C. List $5.00. Each $3.00, Less 2% or

Citizen's Radio Call Book

Just off the press—the January, 1929 issue. Contains a complete up-to-date list of all broadcasting stations. New constructional articles on the season's most popular circuits beautifully illustrated.

No. 95000 List 50c. Each 10c

At Last! a Real Radio Trouble Shooting Book

By E. R. Haan

Contains 328 pages, over 300 illustrations—printed on fine paper with a flexible binding. Size 6 x 9. Covers the whole field of trouble shooting from a practical angle. Your service men should be compelled to study this book. Exceptional chapters on interference, eliminators, loud speakers and tubes.

No. 97245 List $3.00. Each $2.21, Less 2% or $2.19 NET

Latest Radio Stationfinder and Log

The most up-to-date and complete RADIO LOG ever presented to the public. We ship latest edition with all corrections as announced by the Federal Radio Commission. Stations are listed alphabetically by call letter. Gives kilowatts, city and owner, power and meters. Shows all hours station is on air on each day of the week. Contains map with all stations and gives distance. Helps any fan to get more stations than ever before. You will find a ready sale for them.

No. 97242 List 25c. Each 16c. 6 Lots 15c

Books on Radio

Radio Encyclopedia by S. Gernsback. A very comprehensive treatise on all radio subjects.

No. 95042 List $2.00. Each $1.50

Freight Prepaid on All Orders of $50.00 and Over
AERO COIL SUPER-SENSITIVE UNIVERSEAL BROADCAST COILS

Kit consists of four Universal Coils suitable for both antenna couplers and interstage R. F. couplers. Suitable for all type of cut, both A. C. and D. C. For use with .0005 condenser.

No. Type List Each
98380 U-123 $15.90 $9.00

The same kit for use with .0005 condenser.

No. Type List Each
98381 U-137 $15.90 $9.00

Similar to above kit except cannot be used with Shield Grid Tube and is equipped with a variable primary in the antenna coil. For use with .0005 condenser.

No. Type List Each
98602 D-1-3 $15.90 $9.00

The same kit for use with .0005 condenser.

No. Type List Each
98360 Type U-16 $15.00 $9.00

This kit consists of three Universal Coils suitable for interstage or antenna couplers. For use with all types tubes both D. C. and A. C. For use with .0005 condenser.

No. Type List Each
98363 $12.00 $7.20

The same kit for use with .0005 condenser.

No. Type List Each
98353 Type U-200 $12.00 $7.20

Similar to above kit except cannot be used with Shield Grid Tubes and is equipped with a variable primary in the antenna coil. For use with .0005 condenser.

No. Type List Each
98355 Type U-200 $12.00 $7.20

Same kit for use with .0005 condenser.

No. Type List Each
98355 Type U-120 $12.00 $7.20

TWO COIL KITS

Kit contains two Inductance units specially designed for use with Shield Grid Tube to be used in connection with a regeneration detector. For use with .0005 condenser.

No. Type List Each
98386 U-263 $8.00 $4.80

Same kit for use with .0005 condenser.

No. Type List Each
98358 Type U-263 $10.00 $6.00

Designed for use with all types Shield Grid tubes. The most efficient kit ever sold for this type circuit. For use with .0005 condenser.

No. Type List Each
98359 Type U-270 $10.00 $6.00

Same kit for use with .0005 condenser.

No. Type List Each
98359 Type U-270 $10.00 $6.00

REGENERATIVE COILS

Condenser No. Type Condenser

List $4.00

AERO CHOKE COILS

Designed to have a uniform choking action over a wide range of wave lengths. Used in all modern circuits.

No. Type List Each
98344 U-12 $12.00 $7.20
98345 U-24 $12.00 $7.20
98346 UA-17 $12.00 $7.20

AERO SHORT WAVE CONVERTER

A single-tube converter using the new Aero "International" short wave broadcast control, Easy to build. Uses 299 or 301 A type tube. Complete less cabinet.

No. Type List Each
98329 $12.00 $7.20

No. Type List Each
98339 $12.00 $7.20

International S. W. Broadcast Receiver

The Aero "International" employs one stage of Shield Grid is the first receiver designed exclusively for short wave broadcast reception. Only one tuning control, Extremely simple to operate, and very easy to build. The finest short wave receiver obtainable at any price. Foundation unit does not include outline or equipment. 2X14 drilled Micarta front panel, and all parts necessary to assemble.

No. Type List $55.30 $33.18

AERO SHORT WAVE KITS

Aero has been a pioneer in the manufacture of short wave and transmitting coils and thousands of users attest to their reliability.

LWT 125 TURNER KIT Range 15 to 150 Meters, completely interchangeable. Includes coils and base mounting. Uses .00014 condenser on secondary and .00025 on feed-back control.

No. Type List Each
98690 Type LWT-125 $12.00 $7.20

INTERCHANGEABLE COILS

Increase the range of your short wave tuner by securing these coils. Use same base supplied with short wave kit.

No. Type Range List Each
98618 INT-1 125 to 250 Meters $4.00 $2.40
98619 INT-2 250 to 500 Meters $4.00 $2.40
98620 INT-3 550 to 1000 Meters $4.00 $2.40
98621 LWT Mounting Base with Primary $3.00 $1.80

BROKEN KIT PARTS

The new International Aero Coils follow the same general type of construction as the older type but are constructed of slightly heavier wire and the diameter of the coil has been altered to 2.5. Base dimensions are the same.

No. Type Range List Each
98396 INT-1 15 to 35.5 Meters $4.00 $2.40
98397 INT-2 35.5 to 65 Meters $4.00 $2.40
98398 INT-3 65 to 170 Meters $4.00 $2.40
98399 LWT Mounting Base with Primary $3.00 $1.80

"AERO INTERNATIONAL" SHORT WAVE RECEIVING COILS

The new International Aero Coils follow the same general type of construction as the older type but are constructed of slightly heavier wire and the diameter of the coil has been altered to 2. Base dimensions are the same.

No. Type Range List Each
98396 INT-1 15 to 35.5 Meters $6.90
98397 INT-2 35.5 to 65 Meters $6.90
98398 INT-3 65 to 170 Meters $6.90
98399 LWT Mounting Base with Primary $3.00

AEROKITS

Full detail on all these kits, with complete circuit in diagram and blue prints will be mailed upon request. We can furnish anything and everything in the AERO Line, and are ready to serve you.

"AERO" SHORT WAVE RECEIVER

D. C. MODEL

A simple three-tube short wave receiver of the standard type which has given such good results in the past. Uses New International Coils. Size of panel, 7x14. Complete, less cabinet.

No. Type List Each
98348 Type No. 11 $49.95 $29.97

Same as Kit No. 11, except two 325 and one 371 A power tube are employed.

No. Type List Each
98349 Type No. 10 $49.95 $29.97

INTERNATIONAL S. W. BROADCAST RECEIVER

SHIELD GRID MODEL

The Aero "International" employs one stage of Shield Grid is the first receiver designed exclusively for short wave broadcast reception. Only one tuning control, Extremely simple to operate, and very easy to build. The finest short wave receiver obtainable at any price. Foundation unit does not include outline or equipment. 2X14 drilled Micarta front panel, and all parts necessary to assemble.

No. Type List Each
98321 Type No. 8 $55.30 $33.18

Satisfaction Guaranteed or Your Money Refunded
### Two Tube Converter

The 2-tube converter, for use with any broadcast receiver, is the same as above except that it does not contain the two audio stages. It may be plugged into the detector socket of any broadcast receiver converting it to a very efficient short wave receiver. Uses 1-6X321 and 1-CX391A tubes.

<table>
<thead>
<tr>
<th>No.</th>
<th>6X609</th>
<th>F-K Screen Grid 2-Tube Converter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$49.00</td>
<td>Each $23.40, Less 2% or… $28.51 Net</td>
</tr>
</tbody>
</table>

### Extra Coils

<table>
<thead>
<tr>
<th>No.</th>
<th>66310</th>
<th>Extra Coil</th>
<th>13.19 to 19 meters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$2.75</td>
<td>Each $1.65</td>
<td></td>
</tr>
<tr>
<td>66311</td>
<td>Extra Coil</td>
<td>126.69, 130 to 200 meters</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$2.75</td>
<td>Each $1.65</td>
<td></td>
</tr>
<tr>
<td>66312</td>
<td>Extra Coil</td>
<td>19635, 190 to 599 meters</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$2.75</td>
<td>Each $1.65</td>
<td></td>
</tr>
<tr>
<td>66313</td>
<td>Extra Coil</td>
<td>35066, 350 to 600 meters</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$3.00</td>
<td>Each $1.80</td>
<td></td>
</tr>
</tbody>
</table>

### Trans-formers

#### Type 223 Hi Mu Audio Transformer

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Type</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98410</td>
<td>Type 223</td>
<td>$9.00</td>
<td>Each $5.40</td>
</tr>
<tr>
<td>98411</td>
<td>Type 223</td>
<td>$9.00</td>
<td>Each $5.40</td>
</tr>
<tr>
<td>98412</td>
<td>Type 223</td>
<td>$9.00</td>
<td>Each $5.40</td>
</tr>
<tr>
<td>98413</td>
<td>Type 223</td>
<td>$9.00</td>
<td>Each $5.40</td>
</tr>
</tbody>
</table>

#### 220 Audio Transformer

An all stage transformer. Ratio 3 to 1. Largest selling high grade transformer ever made.  

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Type 222 Output Transformer</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98414</td>
<td>Type 222</td>
<td>$6.60</td>
<td>Each $3.60</td>
</tr>
<tr>
<td>98415</td>
<td>Type 226</td>
<td>$6.60</td>
<td>Each $3.60</td>
</tr>
</tbody>
</table>

### Thordarson 250 2 Stage Power Amplifier and "B" Supply

A self-operated amplifier which also furnishes "B" current for any receiver. May be used with either a radio receiver or electrical pick up for phonograph reproduction. To be used with a dynamic speaker. Follow the following tubes: 1-CX330, 1-CX374, 2-CX381, and 1-C327.

<table>
<thead>
<tr>
<th>Ref.</th>
<th>No.</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98353</td>
<td>$102.00</td>
<td>Each $51.20</td>
<td></td>
</tr>
</tbody>
</table>

### R.F. Chokes

Keep currents from going astray. Polished moulded bakelite case.

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Type</th>
<th>List</th>
<th>Each</th>
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</thead>
<tbody>
<tr>
<td>97334</td>
<td>Type 276</td>
<td>$1.00</td>
<td>Each $54</td>
</tr>
<tr>
<td>97355</td>
<td>Type 276, same as 275, for use above 600 meters</td>
<td>$1.00</td>
<td>Each $60</td>
</tr>
<tr>
<td>98201</td>
<td>Type 277</td>
<td>List $0.90</td>
<td>Each</td>
</tr>
</tbody>
</table>

### Interchangeable Coils

Rubber molded bakelite forms, spaced windings and low losses make them the most efficient coil made today for use with .00035 condensers.

<table>
<thead>
<tr>
<th>Ref.</th>
<th>No.</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98430</td>
<td>111A</td>
<td>$0.35</td>
<td>Each</td>
</tr>
<tr>
<td>98431</td>
<td>111B</td>
<td>$0.35</td>
<td>Each</td>
</tr>
<tr>
<td>98432</td>
<td>111F</td>
<td>$0.35</td>
<td>Each</td>
</tr>
<tr>
<td>98433</td>
<td>111G</td>
<td>$0.35</td>
<td>Each</td>
</tr>
<tr>
<td>98434</td>
<td>111H</td>
<td>$0.35</td>
<td>Each</td>
</tr>
</tbody>
</table>

### Short Wave Transformer

Use with 0.0001 condenser.

<table>
<thead>
<tr>
<th>Ref.</th>
<th>No.</th>
<th>List</th>
<th>Each</th>
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<tbody>
<tr>
<td>98436</td>
<td>111-M</td>
<td>$0.10</td>
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</tr>
<tr>
<td>98437</td>
<td>111-N</td>
<td>$0.10</td>
<td>Each</td>
</tr>
<tr>
<td>98438</td>
<td>111-O</td>
<td>$0.10</td>
<td>Each</td>
</tr>
</tbody>
</table>

### S-M 540 Sub-Panel Brackets

Nickel plated steel sub-panels, brackets (one pair), size 6x1 1/4 inches with hardware.

<table>
<thead>
<tr>
<th>Ref.</th>
<th>No.</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97324</td>
<td>$0.90</td>
<td>Each $0.54</td>
<td></td>
</tr>
</tbody>
</table>
710 SARGENT RAYMENT SEVEN
A Station In Every 10 Kilocycles

In performance, as in unique appearance, it is a precision laboratory type of instrument, and has been designed and built as such. Electrically, the receiver consists of five sharply tuned sharply tuned circuits, a four stage screen grid R.F. amplifier, all tuned by a single tone control, and provided with individual tuning. One knob turns the set on and off, and adjusts battery voltage, while a second knob tunes the set. All are symmetrically placed. There are no other controls. Following the R.F. amplifier are the A.F. Detectors, using the famous S.C. tubes, which provide unequalled tone quality and high volume. CX-371 power tube can be used, or with S-175 175-1 or 175-A power, the CX-371-A power tube. CX-310 operation is with standard A and B power units, or batteries may be used. Each circuit is individually shielded, and isolated from all others, the set goes together simply and positively, with R.F.directly with CX-371, A.F. with CX-312-A, and CX-350. Required tubes are 4 CX-371-A, and CX-350.

No. 58409 Sargent-Rayment Seven kit, faceted packed with cabinet, less tubes $126.00. Model 116, Each... 
$78.00

No. 58409-705 Aluminum Knock-Down Shielding Cabinet, especially designed for the Sargent-Rayment Seven. Size 27%21/2 x 12 x 8. Included in S-M 710 Kit, but sold separately if desired. List $27.00. Each...

$16.20 Less 2%

720 SCREEN GRID SIX

So selective is this receiver that operated in the heart of the city, within only one to three miles of powerful local stations, it brings in out-of-town stations only one dial division (10 K.C.) away from locals! The tone quality of this receiver with the famous S-M 255 and 256 transformers is truly remarkable! The musical scale is brought out with full volume and fidelity of tone, and in beautiful new S-M 760 metal cabinet. Enlarged in two-tone radio beauty, the set 760 is typical of the era to the ear. The 720 receiver consists of three stages of radio frequency amplification, using screen-grid tubes, followed by a super-sensitive detector and two stages of Clough high audio frequency amplification, with output power tube, 112, 171, 210 or 250 tube being optional. The R.F. stages are controlled by two vernier dial dials operating one single condenser and one "three gave" dial; low-tube condenser of unusual accuracy and rigidity. Ganging troubles are forever eliminated. The new 760-141 Universal is used on the antennas stage produces greater amplification. A small condenser in this circuit provides variable selectivity from a minimum to a maximum.

No. 58401 Type 720 Screen Grid Six Kit, Less Tubes and cabinet...

$43.50

No. 58410 Type 720, same as above, complete wired, in enclosed Metal Cabinet. List $192.00. Each...

$61.20 Less 2%

No. 58411 Type 760, Shielding Cabinet Only. Size 21" long, 10" wide, 7" high. List $9.25. Each...

5.55

THE 1292 SCREEN GRID LABORATORY MODEL SUPER-HETERODYNE

This receiver is a pine tube superhetereodyne having only two tuning controls for a total of five stages of R.F. amplification! It is an ultra sensitive superhetereodyne giving positive 10 K.C. selectivity, 2,000 to 4,000 miles range reception and tuning to... You will be delighted with the quality of this receiver. The circuit employs one untuned stage of short wave R.F. amplification, followed by three stages of tuned R.F. amplification, all three tuned to the same superheterodyne three stage crystal controlled frequency of 300 kilocycles. The amplifier employs a following stage, or screen grid first detector tube, an oscillator, turned by the second vernier dial and a single condenser. Two stages of sharply tuned 6 k.c. intermediate amplification, a second detector, and one audio stage using the new Clough audio system. The tunable R.F. oscillator, three stage crystal controlled and L.P. amplifier stages are shielded in copper cage cans which are assembled upon the S-M, 751 Universal steel chassis, and the whole set is double shielded by the S-M 760 Cabinet when used. The appearance of the set with its attractive antique brass panel adornments, and when housed in the S-M 751 cabinet, is distinguished in the extreme, and while the whole set is cut 215/4 long, 19 1/2" deep and 20" high, it has the compactness and efficiency of the thoroughly engineered precision radio receiver that it is. The set has but one stage of audio, and is intended for the discriminating buyer.

Receivers are available in any of the tube amplifiers and conventional cabinets that are the S-M 861-250 Unipale or the 861-210 push-pull Unipale, both single stage amplifiers for CX-310 or CX-350 superhetereodynes.

No. 98402 List $55.20 Each... $57.12 Less 2% or...

No. 98483 Motor Cabinet for above set...

$9.25 Each...

3.25

740 COAST TO COAST SCREEN GRID FOUR

The new Silver-Marshall-Cast to Coast Five offers the finest performance yet attained with this remarkable circuit. A screen grid R.F. amplifier stage, inanematically finer coils and transformers are used, the new Clough 1812 transistors and 256 transformer, and antique brass control enclosures. Like the finest of ready-made sets, make the "THOMAS" the "rangefinder". the range of radio set you're ever heard or listened to. It's called "the Rat's Nest" and it's built in its own—The Coast.

To Coast Four. In summer time tests, through Chicago state and city, it tuned New York, Florida, Texas and California stations with the loudspeaker, cutting through interference to distant programs only 10 and 15 or 20 K.C. away from "peach" with distinctness that amazes. Its tone quality is such as only the new R.F. and 256 transformers can provide. The "eye-value" of the "THOMAS" is a plus of the best of ready-made sets when it is housed in the new Silver-Marshall type 760 metal shielding cabinet tinted in a maroon tone and with a striking and tasteful two-tone crystalline brown which harmonizes with any home furnishings. Battery or direct current operation is optional. Requires 1 CX-252, 2 850-A or A, or CX-312-A detector and stage B power unit, and 1 CX-371-A power tube. CX-310 or CX-350 power can be used with S-M 760 cabinet, 1 power unit.

No. 98403 List $31.00. Each...

Less cabinet and tubes...

$30.60

740 AC COAST TO COAST KIT

For use with one or two independent A.C. Screen Grid Tubes, and R-F 460 ABC or 475 ABC power units.

No. 58644 List $35.00. Each...

$31.50 Less cabinet and tubes...

730 ROUND THE WORLD FOUR

S-M "Round the World" short wave receiver kits build up into a ridge, trim, snap short wave sets that you just can't help getting the thrill of your life as you tune one. And—they have all the advantages of screen grid R.F. amplification, and one dial tuning, new Clough high gain half wave amplification with S-M 255 and 256 amplifiers, complete shielded cabinets! Choose any one of the three kits you prefer, and step out into the "thrift bun" for exciting long-distance reception! 730 "Round the World Four" is a complete four tube non-radiating short wave receiver kit with its own crystal all-radiationless detector and two high gain Clough audio tubes. It tunes from 11 to 290 meters with 50-tube in coils and will bring in five continents in an evening's tuning.

730 "Round the World Four" uses a special A.F. amplifier and detector less the two stage A.F. amplifier of the above set. It is the most popular receiver for the adventitious short wave reception, and it is ideal for television reception. 732 "Round the World" essential kit contains the new tuning and A.F. condensers, four plug-in coils for 174 and 204 meters, a coil socket, and three R.F. chokes, with full instructions for building a set.

No. 58468 List $30.00 Model...

No. 58468 730 Round the World Four Kit...

$30.00

No. 58487 730 Round the World Wired Adapter...

21.90

No. 58487-7 732 Round the World Adapter Kit...

21.90

No. 58406 732 Round the World Wired Adapter...

18.90

No. 58406-7 752 Round the World Essential Kit...

9.90

Satisfaction Guaranteed or Your Money Refunded

42
S-M UNIPACS

680 SERIES

The S-M UNIPAC, a series of universal high-fidelity power amplifiers, are rapidly gaining in popularity. Today the S-M UNIPAC line embraces power amplifiers and light, 680.90 power supplies suited to every possible need, for use in home, hotel, theater and public installations. Furnished in a crystalline black color case, 19¾x7¾x7 inches. Write for complete circular.

681 UNIPAC consists of a push-pull power amplifier using 2 CX326, 2 CX350 and 1 CX374 tubes.

No. 68643 UNWIRED KIT $52.20
No. 68543 WIRED UNIPAC $61.20

681-210 UNIPAC. Exactly the same as the 681-210 UNIPAC, except that it includes a first audio stage which uses one CX329 tube.

No. 79339 UNWIRED KIT $61.20
No. 79337 WIRED UNIPAC $62.90

681-250 UNIPAC is exactly the same as the 681-210 UNIPAC, with push pull output using 1 CX350 in audio stage.

No. 79345 UNWIRED KIT $48.20
No. 79345 WIRED UNIPAC $57.90

681-259 UNIPAC is the same as 681-210, but without the push-pull using 1 CX350 in audio stage.

No. 79347 UNWIRED KIT $79.90
No. 79349 WIRED UNIPAC $66.90

670 B AND ABC POWER SUPPLIES

The new S-M 670 B and ABC Power Supply Units are unquestionably the highest grade 670 B and ABC unit on the radio field employing the 260 V.D.C. type of power system, which gives freedom from hum, and ABC supplies fixed voltages of 22, 90, 115 and 180 Volts. The output of 22 to 90 volts is calibrated at 22, 45, 67 and 90 volts. A total of 60 m.a. may be drawn. The 670 ABC unit also supplies the same B voltages as 670 B, but in addition provides 1½ volts at 4 amperes, 2½ volts at 5 amperes, 3½ volts at 5½ amperes, and 4½ volts at 6 amperes. It is a complete ABC power supply for use with any of the 649-AF or six or seven tubes. Both models are supplied in kit or wired form, with a beautiful crafted cabinet, 16¾ x 15 x 7¾ inches, 3/4 inch thick, 3 7/16 inches wide.

No. 79333 670 B... List $39.80 Each $35.00
No. 79334 670 B wired power supply... List $47.30
No. 79418 670 ABC... List $47.30
No. 79417 670 ABC wired power supply... List $47.30

JEWELERS TIME SIGNAL AMPLIFIER

440 SG
(For Standard Tubes)
A three-stage long-wave amplifier laboratory tuned to 112 K.C., the wave length of N.A.A. (Arlington), uses 4 CX301A tubes, same as used in T.R.F. amplifier and detector. Sealed in brass and brass cata

Size 15x15x5 in.

No. 96046 List $35.00 Each $21.00

New S-M Midget Plug-In Coils

No. Coll - Form Only List Each
98420 190-P Unwound, Smooth... 39c
98421 190-T Unwound... 39c
98423 181-T... 39c
98424 190-1... 39c
98425 181-B... 39c
98426 181-W... 39c
98427 181-W... 39c

WOUND COILS

No. Coll - Range List Each
98423 181-B... 39c
98424 181-1-50... 39c
98425 181-B... 39c
98426 181-W... 39c

320-R Universal Condenser
A single 0.0005 mf variable mica universal condenser, truly Universal in full range coverage and including removable shaft. Mounts on either side, bottom or either end for use on radio or high-impedance circuits. Double-spaced variable mica universal condenser, 4 5/16 by 4 11/16 inches, 4 5/8 by 5 1/2 inches, 3 1/2 by 3 3/4 inches, 3 1/2 by 3 inches, 2 1/4 by 2 1/4 inches, 1 1/2 by 1 1/2 inches. Each $1.05

No. Coll - Range List Each
98431 320-R... 4.00
98432 320-R... 4.00
98433 320-R... 4.00

323 Two Gang Condenser, A two-unit glass-encased condenser, accurate made, in rugged die-cast frame for either side or end mounting. Each unit equipped with an individual compensator and shielded from other units. Capacity each unit 0.0005 mf, all units guaranteed matched to within 1% over upper, half of range, or over lower half of scale.

No. Type List Each
98431 323 4.00
98432 323 4.00
98433 323 4.00

683 Stage Shield

A small copper shield 4½ in. long, 4½ in. high, 2½ in. wide, with pierced bottom and top, painted black to give a rugged finish. Each $1.05

No. 98428 List $1.05 Each $1.00

685 PUBLIC ADDRESS UNIPAC AMPLIFIER

For coverage of crowds of 1,000 to 6,000 people, indoors or outdoors, with one to twelve loud-speakers, the S-M Public Address Unipac is the only light weight, portable amplifier now available. For use with one CX 326, one CX 350 and two CX381 rectifiers in a three stage light weight power amplifier for use in connection with the new S-M 250 and 295 audio transformers. Size: 12¾ x 12, 8 inches wide.

No. 98412 S-M Unipac kit, less tubes... $75.00
No. 98413 S-M Unipac kit, less tubes... $75.00

678 P PHONOGRAPh AMPLIFIER

The new S-M 678P Phono Amplifier employs a new unit of greatly improved design, especially for use as a three-stage amplifier for high fidelity phonograph pick-up only and when so used it will provide the finest reproduction of records attainable. The unit consists of a three stage power amplifier with self contained power supply, using 350 and 350 tf type tubes in conjunction with the new S-M 250 and 295 audio transformers. These new transformers every note is brought out with full volume and true tone quality. The 678P employs one CX-391, one CX-310, and one CX-310-A, and one CX301-A tube, and is designed for operation upon addition of record pickup, loud speaker and tubes.

No. 98415 S-M Unipac amplifier for phonograph from factory own field excitation. List $75.00. Each $43.80 Less Tubes

676 DYNAMIC SPEAKER AMPLIFIER

The S-M 676 Amplifier is a single stage power amplifier designed especially for use as a three-stage amplifier for high fidelity record power tube in the last stage of a receiver, adding greatly to its tone quality and power handling capacity. Uses one CX-391 rectifier and supplies 22, variable 50 to 60, 555 volts and 5 1/2, 5, 4 volts, 15, 25% and 5% volts A.C. for power tube filaments. Fifty-five volts for the 210 or 84 volts for CX350 is supplied automatically by an internal resistor. Size: 17-1/2" long, 5¾" high and 3 3/16" wide.

No. 98414 676 Dynamic Speaker Amplifier Kit... List $49.90
Each $29.40
No. 98419 676 Wired Dynamic Speaker Amplifier... List $55.90
Each $33.00

675 H I V O T P O W E R S U P P L Y

The 675 Hivot power supply allows the use of a 5½, 250 super power tube in the last stage of any receiver, adding greatly to its tone quality and power handling capacity. Uses one CX-391 rectifier and supplies 22, variable 50 to 60, 555 volts and 5 1/2, 5, 4 volts, 15, 25% and 5% volts A.C. for power tube filaments. Fifty-five volts for the 210 or 84 volts for CX350 is supplied automatically by an internal resistor. Size: 17-1/2" long, 5¾" high and 3 3/16" wide.

No. 98439 675 Hivot Power Supply... List $32.40
Each $20.40
No. 98430 675 Hivot Wired Power Supply... List $45.00
Each $35.00

For Screen-Grid Tubes
A three-stage long-wave amplifier operating on 113 K.C. and incorporating CX322 screened plate tubes, a limitation of 40 per stage—greater than any other long-wave amplifier in the market. PE, a solidly shielded and laboratory tuned to 113 K.C. Beautiful copper and brass catacomb with removable cover. Size 16x15x5/4 inches.

No. 97341 $49.00 Each $24.00

S-M Midget Condensers

Capacity, 0.00003 to 0.00025 mf. Designed for compensating circuit, heterodyne coupling, etc. Complete line. 19 to 75, 75060 Price List. Each 90c. Capacity... $0.00003, $0.00005 to $0.00025 mf. Complete line. 19 to 75, 75060 Price List. Each 90c. Where a larger midget condenser is called for, the S-M 456 Series may be used. Each... $1.75

No. 97322 $1.75 Each $1.05

368 Stage Shield

A small copper shield 4½ in. long, 4½ in. high, 2½ in. wide, with pierced bottom and top, painted black to give a rugged finish. Each $1.05

No. 98428 List $1.05 Each $1.00

Freight Prepaid on All Orders of $50.00 and Over
Tyrman Imperial "80"
Custom-Bilt Shielded Grid

The Tyrman Imperial "80" is designed for those who are satisfied only with the finest in radio. It is especially designed for A-C Socket operation using A-C Shield Grid Tubes. The Duo System of Amplification, a recent Tyrman achievement gives full advantage of the tremendous amplification of A-C Shield Grid Tubes.

Unsurpassed tone quality, through the use of the Tyrman Audio Amplifier and the CX 356 power tube for second audio stage, which also assures distortionless output of tremendously amplified signals.

The actual performance of the Imperial "80" is defined by a ten K.C. Selectivity and Sensitivity over entire wave band obtainable only with Shield Grid Tubes as used in the Tyrman circuit. Three knob control. Beautiful front panel of solid butt walnut on steel, exclusively Tyrman. Power pack mounted on chassis with other units. Every part precision made, matched and tested. By special method assembling of chassis is greatly simplified and can be easily accomplished in a fraction of an hour. Prices less tubes.

No. 98465 Factory packed, complete with Power Pack, List $195.50. Each $119.50 Less 2% or $177.11

Uses the following tubes: 3 A.C. Shield Grid tubes, 4 C337, 1 CX369, 2 CX381.

Takes a 7x21x11 1/4 Deep Cabinet—Power Pack Comes Separate

Tyrman "72"
Custom-Bilt Shielded Grid

The Tyrman "72" is designed for either battery, or complete A-C socket operation using A-C Shield Grid Tubes. This feature is desirable for more than one reason. Even, if assembled as battery operated it is a simple matter to later convert the set readily to COMPLETE A-C SOCKET operation, merely by following a different wiring scheme and changing socket from A-C tubes. Power Pack is especially designed for Tyrman "72" mounted with other units on same platform. Tyrman Audio gives full rich tonal quality. Uses 171 power tube and when assembled for A-C socket operation. Front panel, metal lithographed, walnut finish, equipped with Tyrman Worm Drive Knobs. Only three control knobs on Tun. Duo System of amplification as adapted to the Tyrman "72" assures Selectivity, Sensitivity and Stability, comparable only to other Tyrman Shield Grid Receivers. Without oscillation, brings in distant stations with full local volume. Quickly and simply assembled.

No. 98467 (Battery operated all parts factory packed) List $88.50. Each $89.10 Less 2% or $57.92
Uses the following tubes: 3 CX328, 1 CX371A, 3 CX369A.
No. 98468 Complete Electric A-C socket operation with power supply, factory packed. List $355.50. Each $352.30 Less 2% or $290.65
Uses the following tubes: 3 A.C. Shield Grid tubes, 2 C337, 1 CX371A, and 1 CX380.
No. 98469 Complete set of 4 short wave Coils. List $10.00. Each $6.00 Less 2% or $5.88

Tyrman "72" takes a 7x21x11 1/4 Deep Cabinet—Power Pack Comes Separate

Tyrman "60"
Custom-Bilt Shielded Grid

This receiver is designed for battery or eliminator operation as an outcome of the laboratory experience gathered with its famous precedent, the Tyrman "70." The experiments were made with the ultimate goal in mind, receivers, matching the super efficiency of the Tyrman "70," with only six tubes and thus obtain further economy in operation. Never before has any six tube receiver approached the possibilities of this set. With one double purpose tube the sensitivity of the receiver is many times greater than its designers originally expected and all this was achieved in a physical size of only 7x19 3/4.

Efficient use is made of the enormous amplification of the shielded grid tubes and also their stability. The circuit is of the impedance coupled type. Tyrman Audio Transformers, famous in the past for their superior quality of tone, are incorporated. Tyrman one dial variable drum system makes the operating extremely simple. This is true for the receiver for the home and within the pocket book of any one. Tyrman Impenity has made it possible to combine quality, first class performance and elegant layout with the highest price a super-heterodyne kit was ever offered to the public.

No. 98469 Complete with parts. Less Tubes. List $45.50. Each $44.70 Less 2% or $34.87

Uses the following tubes: 3 CX328, 1 CX391A, 1 CX371A. Cabinet size. 7x19 3/4x 7 deep.

Satisfaction Guaranteed or Your Money Refunded
ELECTRA TRUVOLT DIVIDER

The Truvolt Divider will deliver proper plate and grid voltage to any receiver of present or future design, by simply connecting to the output terminal of the B Eliminator. B voltage taps may be varied at least 15 volts above or below the mean voltage. A resistance unit never before attained.

<table>
<thead>
<tr>
<th>No.</th>
<th>Total Resistance</th>
<th>List</th>
<th>Each</th>
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<td>98110</td>
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<tr>
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<td>98112</td>
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<tr>
<td>98117</td>
<td>80 Ohms</td>
<td></td>
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</tr>
</tbody>
</table>

A full line of special tapped resistors for all popular power packs carried in stock.

WIRE FIXED RESISTORS

25 Watt—2” Long

<table>
<thead>
<tr>
<th>No.</th>
<th>Resistance In Ohms Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98100</td>
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</tr>
<tr>
<td>98101</td>
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<td>98103</td>
<td>500</td>
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<tr>
<td>98104</td>
<td>600</td>
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<tr>
<td>98105</td>
<td>700</td>
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Each $1.11

51c EACH

<table>
<thead>
<tr>
<th>No.</th>
<th>Resistance In Ohms Each</th>
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<tbody>
<tr>
<td>98110</td>
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</tr>
<tr>
<td>98111</td>
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<tr>
<td>98113</td>
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<td>98114</td>
<td>180</td>
</tr>
<tr>
<td>98115</td>
<td>200</td>
</tr>
</tbody>
</table>

Each $0.75

CLAROSTAT UNIVERAL RESISTOR

A resistor that is specified in the majority of the new power packs. "B" eliminators and for purposes of volume control. Sturdily built, carries 20 watts indefinitely. Very even, velvety control. One hole mounting. Guaranteed to give complete satisfaction. Minimum resistance 200 ohms, maximum 5,000,000 ohms.

<table>
<thead>
<tr>
<th>No.</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>93497</td>
<td>$3.50</td>
<td>$1.35</td>
</tr>
</tbody>
</table>

Power Type Clarostat

Will carry 40 watts, safety. Universal range 200-100,000 ohms. Has many uses, permits fine adjustment.

<table>
<thead>
<tr>
<th>No.</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>93497</td>
<td>$3.50</td>
<td>$1.35</td>
</tr>
</tbody>
</table>

TABLE TYPE CLAROSTAT

A convenient tone control beautifully finished in bronze and nickel with bakelite knob. Complete with double cord and handy connector.

<table>
<thead>
<tr>
<th>No.</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97274</td>
<td>$2.50</td>
<td>$1.30</td>
</tr>
</tbody>
</table>
**Amsco Condensers**

AMS CO is a line of condensers that is specified in a great many circuits. They have been tested and approved by the best radio authorities.

**AMSCO DUOSPACE CONDENSERS**

- Designed to meet the stringent requirements of modern receivers.
- Spacing between the rotor and stator plates twenty thousandths of an inch greater than that of standard types. Compensators are provided on all gap capacitors. All Duo-Space Condensers may be mounted for drum or dial control. Furnished in the following sizes:

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Capacity</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98260</td>
<td>Single</td>
<td>.00014</td>
<td>$4.00</td>
</tr>
<tr>
<td>98261</td>
<td>Single</td>
<td>.00025</td>
<td>4.25</td>
</tr>
<tr>
<td>98262</td>
<td>Single</td>
<td>.00036</td>
<td>4.50</td>
</tr>
<tr>
<td>98263</td>
<td>Single</td>
<td>.00045</td>
<td>5.00</td>
</tr>
<tr>
<td>98264</td>
<td>Double</td>
<td>.00025</td>
<td>8.00</td>
</tr>
<tr>
<td>98265</td>
<td>Double</td>
<td>.00035</td>
<td>9.00</td>
</tr>
<tr>
<td>98266</td>
<td>Double</td>
<td>.00045</td>
<td>11.00</td>
</tr>
</tbody>
</table>

**Triple and Quadruple Unit**

- Truly the finest condensers made. Used in all the popular kits such as Silver-Marshall.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Capacity</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98267</td>
<td>Triple</td>
<td>.00055</td>
<td>$13.50</td>
</tr>
<tr>
<td>98268</td>
<td>Quadruple</td>
<td>.00075</td>
<td>15.00</td>
</tr>
</tbody>
</table>

**AMSCO STRAIGHT FREQUENCY LINE**

- So designed that the resonant or tuned frequency of the circuit is raised or lowered the same amount for each dial division. No crowding. Rotor shaft of chromium nickel needle steel. Highly efficient.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Capacity</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98323</td>
<td>Single</td>
<td>.00035</td>
<td>$3.50</td>
</tr>
<tr>
<td>98324</td>
<td>Single</td>
<td>.00045</td>
<td>3.75</td>
</tr>
<tr>
<td>98325</td>
<td>Single</td>
<td>.00055</td>
<td>4.00</td>
</tr>
<tr>
<td>98326</td>
<td>Double</td>
<td>.00045</td>
<td>6.00</td>
</tr>
<tr>
<td>98327</td>
<td>Double</td>
<td>.00055</td>
<td>7.00</td>
</tr>
</tbody>
</table>

**SPECIAL SHORT WAVE CONDENSER**

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Capacity</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98363</td>
<td>Single</td>
<td>.00014</td>
<td>$3.75</td>
</tr>
</tbody>
</table>

**STRAIGHT TUNING LINE**

A modified frequency line which allows stations on the dial in equal wave lengths. Perfect bearings. Single hole mounting. Triple type make simple control practical. Has variable compensating condenser for balancing.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Capacity</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96230</td>
<td>Single</td>
<td>.000055</td>
<td>$1.00</td>
</tr>
<tr>
<td>96231</td>
<td>Single</td>
<td>.00015</td>
<td>1.25</td>
</tr>
<tr>
<td>96232</td>
<td>Double</td>
<td>.000055</td>
<td>1.00</td>
</tr>
<tr>
<td>96233</td>
<td>Double</td>
<td>.00015</td>
<td>1.25</td>
</tr>
<tr>
<td>96234</td>
<td>Triple</td>
<td>.000055</td>
<td>1.00</td>
</tr>
<tr>
<td>96235</td>
<td>Triple</td>
<td>.00015</td>
<td>1.25</td>
</tr>
</tbody>
</table>

**AMSCO TOM THUMB CONDENSERS**

- A midget condenser incorporating all the refinements generally associated only with larger units. Employed as a neutralizing condenser, also has many other uses. Very low minimum capacity. Single hole mount.

<table>
<thead>
<tr>
<th>No.</th>
<th>Capacity</th>
<th>Plates</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98270</td>
<td>.00001</td>
<td>3</td>
<td>$0.90</td>
</tr>
<tr>
<td>98271</td>
<td>.000025</td>
<td>7</td>
<td>1.00</td>
</tr>
<tr>
<td>98272</td>
<td>.00005</td>
<td>12</td>
<td>1.25</td>
</tr>
<tr>
<td>98273</td>
<td>.00015</td>
<td>15</td>
<td>1.50</td>
</tr>
<tr>
<td>98274</td>
<td>.00014</td>
<td>25</td>
<td>2.00</td>
</tr>
</tbody>
</table>

**SEND CASH WITH ORDER AND SAVE C. O. D. CHARGES**

Satisfaction Guaranteed or Your Money Refunded

---

**PILOT CONDENSERS**

Last word in condenser design. Removable shell, single hole mounting on both sides, and sub panel mounting. Separate condensers can be gauged by using clipper No. 12.

<table>
<thead>
<tr>
<th>No.</th>
<th>Plates</th>
<th>Cap.</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>95027</td>
<td>8</td>
<td>.00017</td>
<td>$1.50</td>
</tr>
<tr>
<td>95028</td>
<td>12</td>
<td>.00025</td>
<td>2.00</td>
</tr>
<tr>
<td>95029</td>
<td>15</td>
<td>.00035</td>
<td>2.50</td>
</tr>
<tr>
<td>95030</td>
<td>20</td>
<td>.00055</td>
<td>3.00</td>
</tr>
<tr>
<td>95045</td>
<td>25</td>
<td>.00075</td>
<td>3.50</td>
</tr>
</tbody>
</table>

**PILOT 2 AND 3 GANG**

- Easy to mount rigid construction. This condenser should be used in all high grade receivers.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Cap.</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98476</td>
<td>2 Gang</td>
<td>.00035</td>
<td>$4.00</td>
</tr>
<tr>
<td>98477</td>
<td>2 Gang</td>
<td>.00075</td>
<td>6.60</td>
</tr>
<tr>
<td>98539</td>
<td>1 Gang</td>
<td>.00075</td>
<td>2.15</td>
</tr>
</tbody>
</table>

**ALL AMERICAN AUDIO TRANSFORMERS Rauland Lyric**

Designed for those desiring the utmost in natural reproduction of sound. Uniformly good reproduction is obtained over entire musical range. Installation of these transformers in any radio receiver will make a decisive step toward perfect reproduction.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Cap.</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98450</td>
<td>1.00</td>
<td>.00015</td>
<td>$5.40</td>
</tr>
</tbody>
</table>

**ALL AMERICAN STANDARD AUDIOs (New Style)**

These new type Standard Audio transformers offer all the mechanical and electrical advantages of years of manufacturing experience. Heavy metal shell shields transformer completely. Entire unit sealed against climatic conditions preventing electrolysis and assuring long life.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Capacity</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>90151</td>
<td>Radio 3 to 1.</td>
<td>.00015</td>
<td>$4.50</td>
</tr>
<tr>
<td>90152</td>
<td>Radio 5 to 1.</td>
<td>.00015</td>
<td>2.70</td>
</tr>
</tbody>
</table>

Less 2% or over $265 NET

**NEW PILOT BAKELITE SHELL TRANSFORMERS**

Very latest development in audio transformers and chokes. Large coil windings and heavy laminations enclosed in a beautiful bakelite shell. Absolutely moisture-proof. Especially designed for the high voltages used with modern power tubes. All units uniform in appearance and size.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Capacity</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98450</td>
<td>2 to 1 Audio</td>
<td>.00015</td>
<td>$2.75</td>
</tr>
<tr>
<td>98451</td>
<td>3/4 to 1 Audio</td>
<td>.00015</td>
<td>1.65</td>
</tr>
<tr>
<td>98452</td>
<td>1 to 1 Output Trans</td>
<td>.00015</td>
<td>2.50</td>
</tr>
<tr>
<td>98453</td>
<td>Output Filter</td>
<td>.00015</td>
<td>2.25</td>
</tr>
<tr>
<td>98454</td>
<td>B Eliminator Choke</td>
<td>.00015</td>
<td>2.75</td>
</tr>
<tr>
<td>98455</td>
<td>Input Push-Pull</td>
<td>.00015</td>
<td>3.00</td>
</tr>
<tr>
<td>98456</td>
<td>Output Push-Pull</td>
<td>.00015</td>
<td>3.00</td>
</tr>
</tbody>
</table>
JEFFERSON
No. 376
Makes ideal replacement job. Can be used for practically any set. Unmounted, but has 2 brackets for attaching. 3 ½ x 2 1/4 x 1 1/4. Bracket on 3" center.
No. 96934
List $2.25
Each $1.35
10 Lots $1.20

Jefferson Transformers
CONCERTONE
This new audio gives equal amplification from 30 to 10,000 cycles. All vocal and instrumental notes are reproduced with natural tone. Especially adapted for use with new power tubes. Sealed in metal case.
List Each
No. 93495 $6.00 $3.60

“STAR” SEALED AUDIO
Come sealed in a case to prevent open circuits from moisture. Low priced yet a high quality product.
No. 93533
3 to 1 $7.95
5 to 1 2.75

TYRMA Coupers
Tyman Audio Coupers are your assurance of faithful reproduction. Never has the full value of orchestral reproduction been more appreciated than in receivers which have adapted Tyman Audio Coupers. Specially designed for invisible sub panel wiring.
No. 98498
Audio Coupler $8.00
No. 98499
Audio Output Coupler 8.00

KARAS
Universal Audio Transformer
A popular audio for the radio service as a compact size and universal application. Heavy case is slotted to fit practically any setting of mounting holes. It can be used to replace 86% of the audios now in use in radio sets and at the same time greatly improve the total beauty of the receiver. Size 2 1/4 x 2 1/4 x 1 1/4.
No. 98699
List $4.30
Each $3.30
Less 2% or...

MUTER A C POWER UNIT
The ideal type of unit for construction of an A C set in view of the compact size, handsome appearance and uniform long life output. Supplies A, B, and C power for any set up to 7 tubes with a power tube in connection with A C tubes. Size, 12" x 3 3/4 x 2 3/4.
No. 96673
List $18.00
Each $12.00
No. 94875
CX 389 Tube for above...

PREMIER Quality Radio Parts
PREMIER HEGHOG
This famous little transformer is about the size of an English walnut. 100 per cent shielded. Mounts anywhere, saves space in assembly.
No. 92045
List Each 10 Lots
1 to 3 $3.50 $2.10 $1.89
1 to 4 3.60 2.10 1.89
1 to 5 3.50 2.10 1.89
1 to 10 4.50 2.70 2.43

MUTER REPLACEMENT TRANSFORMER
A compact dependable universal replacement transformer designed especially for service work but also excellent for new circuits. Size 2 3/4 x 2 1/2 x 1 1/4, with brackets that permit mounting in almost any position, either above or below sub-panel, thus making it adaptable for use with practically all sets. High grade silicon steel core giving full amplification without distortion. Universal Ratio $1.18

NEW KARAS A. C. FORMER FILAMENT SUPPLY
Type 12
Supplies filament potential or 12 tubes, 5 V 1/2 for 26 1/2, 9 V for 22 and 2 x 14 for 37.
No. 97185
List $8.75
Each $8.50

Type 15
Supplies filament potential or 12 tubes, 2 type 321, 2 type 320, 2 type 371 or 216.
No. 97196
List $13.50
Each $13.00

MUTER SUPREME A F TRANSFORMER
Supreme in range and tone—specially designed vacuum impregnated coil assembled in the highest grade silicon steel core. Doubly sealed against atmospheric conditions with moisture proof compound.
No. 98176
First Stage $7.00
98177 Second Stage 7.00

MUTER AUDIO FREQUENCY TRANSFORMER
No. 93447
5 to 1 1.25 $1.20
List Each 10 Lots
93448 5 to 1 2.25 1.35 1.22

MUTER TONE FILTER AND CLARIFIER
The Muter Clarifier will improve the tone quality of your speaker. Constructed with a special dual choke coil and large capacity filter condenser. Easily attached without disturbing the set. Also protects speaker from high "B" voltage.
No. 96995
List $8.00
Each $3.00

Freight Prepaid on All Orders of $50.00 and Over
UNIVERSAL SPRING SOCKET

Tubes prongs are gripped firmly. Supplied with or without spring suspension.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>93361</td>
<td>Without Spring Cushion</td>
<td>$0.22</td>
<td></td>
</tr>
<tr>
<td>93362</td>
<td>With Spring Cushion</td>
<td>$0.35</td>
<td>$0.22</td>
</tr>
</tbody>
</table>

NA-ALD ADAPTERS

The line of Na-ald Adapters is complete. It permits the interchange of new tubes without changing sockets.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>93354</td>
<td>Fur Tube</td>
<td>$0.35</td>
</tr>
<tr>
<td>93355</td>
<td>Into Socket</td>
<td>$0.35</td>
</tr>
<tr>
<td>93356</td>
<td>Any CX</td>
<td>$0.35</td>
</tr>
<tr>
<td>93357</td>
<td>CX329</td>
<td>$1.00</td>
</tr>
</tbody>
</table>

NA-ALD 945 AND 954 ADAPTERS

For adapting from five to four and four to five prong tubes. Used in A, C, and D, C, testers.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98478</td>
<td>Tube</td>
<td>$1.00</td>
</tr>
<tr>
<td>98479</td>
<td>Into Socket</td>
<td>$1.00</td>
</tr>
</tbody>
</table>

PILOT SOCKETS

Genuine bakelite for sub panel use. Will take UV, UX, or UX tubes. For Panel.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Description</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96427</td>
<td>214 4 Prong</td>
<td>$0.20</td>
<td>$0.12</td>
</tr>
<tr>
<td>96458</td>
<td>215 5 Prong</td>
<td>$0.25</td>
<td>$0.15</td>
</tr>
</tbody>
</table>

NEW 5-PRONG SOCKET

For new high-H.C. Detector tube.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Description</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96372</td>
<td>214 4 Prong</td>
<td>$0.25</td>
<td>$0.21</td>
</tr>
<tr>
<td>96369</td>
<td>215 5 Prong</td>
<td>$0.40</td>
<td>$0.24</td>
</tr>
</tbody>
</table>

Genuine bakelite for use on bakelite or metal panel. Wiring can be done above or below panel. Will take UV, UX, or UX tubes.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Description</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96358</td>
<td>214 4 Prong</td>
<td>$0.35</td>
<td>$0.21</td>
</tr>
<tr>
<td>96359</td>
<td>215 5 Prong</td>
<td>$0.40</td>
<td>$0.24</td>
</tr>
</tbody>
</table>

DE JUR SOCKETS

Made of Bakelite. Fits into small space and closely nickel-plated phosphor springs. A real value.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96311</td>
<td>List $0.25</td>
<td>Each 15c</td>
</tr>
</tbody>
</table>

DE JUR CUSHION SOCKETS

Same as above but equipped with sponge rubber cushion.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96312</td>
<td>List $0.35</td>
<td>Each 25c</td>
</tr>
</tbody>
</table>

SILVER-MARSHALL CX SOCKET

Made of molded bakelite with the best grade of phosphor bronze springs. The Silver-Marshall Socket has a single mounting screw. Plainly marked and of the usual high S-M finish.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96350</td>
<td>List $0.50</td>
<td>Each 50c</td>
</tr>
</tbody>
</table>

AMSCO UNIVERSAL SOCKET

A socket of real merit. Prongs are of best grade phosphor bronze and provide bulldog grip.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96362</td>
<td>List $0.35</td>
<td>Each 21c</td>
</tr>
</tbody>
</table>

BENZAMIN PUSH TYPE SOCKET

This new socket embodies all the shock-absorbing features of the Creta-ten and is designed for the new CX and UX tubes. No. 2730 and No. 2731 are without lower mounting base and intended for direct panel mounting. Drilling template and four machine screws included.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>92720</td>
<td>With Mounting Base</td>
<td>$0.75</td>
</tr>
<tr>
<td>92730</td>
<td>Without Mounting Base</td>
<td>$0.45</td>
</tr>
</tbody>
</table>

NEW BENZAMIN 5-PRONG SOCKET GREEN TOP

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96126</td>
<td>With Base</td>
<td>$1.20</td>
</tr>
<tr>
<td>96127</td>
<td>Sub-Panel Mounting</td>
<td>$0.90</td>
</tr>
</tbody>
</table>

TYRMAN SHIELDED SOCKET

Automatically grounded—Shields are drawn of heavy aluminum stock. All insulating parts are molded of genuine bakelite. Tyrman shielded sockets give each tube the chance of proper functioning in any hookup.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96365</td>
<td>List $1.25</td>
<td>Each 75c</td>
</tr>
</tbody>
</table>

NATIONAL VELVET VERNIER DRUM

DIAL Type F

The National Drum Dial is designed to add beauty to the receiver. Easily attached to the 1/4" shaft of any condenser. A 6 volt lamp may be furnished to brilliantly light the dial. Comes with black or walnut finished knob.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97355</td>
<td>Black</td>
<td>$4.00</td>
</tr>
<tr>
<td>97356</td>
<td>Walnut</td>
<td>$4.00</td>
</tr>
</tbody>
</table>

NATIONAL TYPE E VERNIER DIAL

This dial embodies a mechanism similar to our Type B, but is designed for those who desire to drive the condenser in a plane perpendicular to front panel.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97357</td>
<td>Black</td>
<td>$2.75</td>
</tr>
<tr>
<td>97358</td>
<td>Walnut</td>
<td>$2.75</td>
</tr>
<tr>
<td>97390</td>
<td>Illuminator for D F Dial</td>
<td>$0.30</td>
</tr>
</tbody>
</table>

DIALS TYPE C

Fits any standard condenser with a 1/4" shaft. Have a changeable ratio of from 20 to 1. Type C is the illuminated dial which lights up the dial. Complete with bulb and socket.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97030</td>
<td>Clockwise</td>
<td>$1.80</td>
</tr>
<tr>
<td>97031</td>
<td>Counter Cl.</td>
<td>$1.80</td>
</tr>
<tr>
<td>97032</td>
<td>Dual Range</td>
<td>$3.00</td>
</tr>
</tbody>
</table>

Freight Prepaid on All Orders of $50.00 and Over
POTTER REPLACEMENT BLOCKS FOR "B" ELIMINATORS
Many B eliminators having been in use for a year or more are now coming back with burnt out condenser blocks. These can now be replaced very easily with the new Potter Replacement Blocks listed below and now ready for delivery.

<table>
<thead>
<tr>
<th>No.</th>
<th>Eliminator Used With</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98501</td>
<td>Majestic Standard &quot;B&quot;</td>
<td>$10.00</td>
<td>$6.00</td>
</tr>
<tr>
<td>98553</td>
<td>Majestic Super B.</td>
<td>12.00</td>
<td>7.50</td>
</tr>
<tr>
<td>98653</td>
<td>Majestic Master B.</td>
<td>14.00</td>
<td>7.00</td>
</tr>
<tr>
<td>98654</td>
<td>Majestic Special Master &quot;B&quot;</td>
<td>11.00</td>
<td>6.00</td>
</tr>
</tbody>
</table>

PILOT ADJUSTOTRORD
A variable 0 to 1000 ohm grid suppressor housed in an attractive bakelite shell. Adjustment is obtained thru a screw projecting at the top of the case.

No. 96868
List 50c
Each 30c

ABOUT TELEVISION
See Pages 35-39 for all the latest television parts and accessories.

REESONATOR
The Reesonator is an instrument designed for the purpose of balancing the aerial to the set. At least 10% of the receivers on the market today are not balanced or in resonance with the broadcast wave length. The Reesonator makes it possible to put your set and antenna in exact resonance with each other at all wave lengths, thereby giving you maximum sensitivity and volume. Takes but a minute to install. A trial will convince you.

No. 97148 List $1.75
Each $1.55

PILOT KILOGRAD
A new and improved vernier dial (ratio 10 to 1), which indicates both degrees and kilocycles. 4 inch black bakelite dial.

No. 93499
List...$1.00 Each...60c

PILOT ART-DIAL
A De Luxe Model, that will dress up any set. Will easily carry gang condensers. Can be used clock or counter-clockwise.

No. 96499
Each........52c

CARLTON No. 322 TUBE SHIELD
For use with the new type 222 shield grid tube. Shield completely covers the tube, including the base. The top of tube shield is removable to facilitate placing the connector on the grid terminal of the tube. The wire leading from the connector is (suitable for use with positive or negative shielding). Carter Adapter Ring is used in connection with adapters such as Benjamin, to hold Tube Shield in place.

<table>
<thead>
<tr>
<th>No.</th>
<th>Tube Shield</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97400</td>
<td>322 Tube Shield</td>
<td>$1.50</td>
<td>$1.00</td>
</tr>
<tr>
<td>97401</td>
<td>332 Adapter Ring</td>
<td>$5.00</td>
<td>$3.50</td>
</tr>
<tr>
<td>97402</td>
<td>342 Connector wire</td>
<td>$.50</td>
<td>.30</td>
</tr>
</tbody>
</table>

PYRAMID ILLUMINATED DRUM DIAL

Tyman Illuminated Drum Dials Distinctive and Individual in Appearance. Wires and potentiometers, with variable positive or negative operation. Fits all condensers—rigid construction. Compact in design giving a strikingly beautiful effect. Calibration strip is metal with black numerals on gold bronze. Easy to read.

<table>
<thead>
<tr>
<th>No.</th>
<th>Single Drum</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96532</td>
<td>Single Drum</td>
<td>$8.00</td>
<td>$4.20</td>
</tr>
<tr>
<td>96533</td>
<td>Double Drum</td>
<td>$12.00</td>
<td>$7.20</td>
</tr>
</tbody>
</table>

We Carry All Nationally Known Radio Lines
POTTER BY-PASS CONDENSER

Potter Condensers are well made, the tissue being of all linen or flax stock. Hermetically sealed. Full rated capacity 200 volt D.C. tested.

<table>
<thead>
<tr>
<th>No.</th>
<th>Cap.</th>
<th>MF.D.</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96210</td>
<td>1.75</td>
<td>.........</td>
<td>60e</td>
<td>36c</td>
</tr>
<tr>
<td>96211</td>
<td>2.5</td>
<td>.........</td>
<td>70e</td>
<td>42c</td>
</tr>
<tr>
<td>96212</td>
<td>3.5</td>
<td>.........</td>
<td>75e</td>
<td>45c</td>
</tr>
<tr>
<td>96213</td>
<td>5</td>
<td>.........</td>
<td>70e</td>
<td>54c</td>
</tr>
<tr>
<td>96214</td>
<td>7.5</td>
<td>.........</td>
<td>$1.50</td>
<td>90c</td>
</tr>
</tbody>
</table>

POTTER FILTER CONDENSERS

Medium Duty 700 Volt D.C. Tested, 400 Volt D.C. Working Voltage

<table>
<thead>
<tr>
<th>No.</th>
<th>Cap. MF.D.</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96315</td>
<td>1</td>
<td>$0.35</td>
<td>$0.51</td>
</tr>
<tr>
<td>96317</td>
<td>2.5</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>96318</td>
<td>5</td>
<td>1.25</td>
<td>1.25</td>
</tr>
<tr>
<td>96319</td>
<td>7.5</td>
<td>1.50</td>
<td>1.50</td>
</tr>
<tr>
<td>96320</td>
<td>10</td>
<td>2.00</td>
<td>2.00</td>
</tr>
<tr>
<td>96321</td>
<td>16</td>
<td>2.70</td>
<td>2.70</td>
</tr>
</tbody>
</table>

HEAVY DUTY FILTER CONDENSERS

For Amateur Transmitter Filters—Blinking DC current of 1000 volts or over

<table>
<thead>
<tr>
<th>No.</th>
<th>Cap. Working Voltage</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96334</td>
<td>1</td>
<td>$1.25</td>
<td>$0.75</td>
</tr>
<tr>
<td>96336</td>
<td>1.75</td>
<td>1.00</td>
<td>0.90</td>
</tr>
<tr>
<td>96338</td>
<td>2.5</td>
<td>1.75</td>
<td>1.65</td>
</tr>
<tr>
<td>96340</td>
<td>5</td>
<td>1.50</td>
<td>1.50</td>
</tr>
<tr>
<td>96342</td>
<td>7.5</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>96344</td>
<td>10</td>
<td>0.60</td>
<td>0.60</td>
</tr>
</tbody>
</table>

SPECIAL A-B-C ELIMINATOR FILTERS

Condenser blocks made expressly for the present day tubes such as CX471. 110, 250, etc. Blocks not listed can be furnished upon request.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Tapped Capacity</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96227</td>
<td>B212</td>
<td>2, 2.1, 2.4, 2.6, 2.9, 3.2</td>
<td>$17.50</td>
<td>7.50</td>
</tr>
<tr>
<td>96227</td>
<td>B210</td>
<td>2, 2, 2.5, 2.7, 3</td>
<td>12.60</td>
<td>5.00</td>
</tr>
<tr>
<td>96331</td>
<td>T250</td>
<td>Full Full 250</td>
<td>22.95</td>
<td>15.50</td>
</tr>
</tbody>
</table>

Muter Resistance Amplifier

Muter Resistance Amplifier

Specially designed for CX470 tubes with provision for proper C batteries and power tubes.

No. 98190 3 Stages List $8.00 Each $4.80

Muter Interference Eliminator and Static Reducer

Designed to meet the popular demand for an eliminator which secures results. Greatly assists in tuning out near by powerful stations. Easily and quickly attached to any receiving set without use of tools.

No. 98191 Complete with Instructions. List $2.50 Each $1.50

Tobe “A” Filter and Trans-a-former

The Trans-a-former fits neatly on top of the A Filter and the two units combined make a complete A Eliminator. Trans-a-former in itself makes a good 200 volt charger, while the A Filter is ideal for replacing acid jars in such chargers as Philco, Bulkie, Westinghouse, etc. Both units sold separately.

No. 97497 A Filter List $11.50 Each $6.00
No. 98381 Trans-a-former 15.00 9.00

TINOTYOBE CONDENSERS

The established quality of TINOTYOBE Condensers is recognized by all builders and manufacturers. TINOTYOBE condensers are made for constant operating voltages and are used in A.C. and D.C. circuit. Easy to assemble. Light and of small size.

<table>
<thead>
<tr>
<th>No.</th>
<th>Cap.</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>94856</td>
<td>0.001</td>
<td>$0.35</td>
<td>$0.21</td>
</tr>
<tr>
<td>94857</td>
<td>0.0025</td>
<td>0.055</td>
<td>0.025</td>
</tr>
<tr>
<td>94858</td>
<td>0.005</td>
<td>0.055</td>
<td>0.025</td>
</tr>
<tr>
<td>94859</td>
<td>0.01</td>
<td>0.055</td>
<td>0.025</td>
</tr>
<tr>
<td>94860</td>
<td>0.002</td>
<td>0.055</td>
<td>0.025</td>
</tr>
<tr>
<td>94861</td>
<td>0.003</td>
<td>0.055</td>
<td>0.025</td>
</tr>
<tr>
<td>94862</td>
<td>0.004</td>
<td>0.055</td>
<td>0.025</td>
</tr>
<tr>
<td>94863</td>
<td>0.005</td>
<td>0.055</td>
<td>0.025</td>
</tr>
<tr>
<td>94864</td>
<td>0.006</td>
<td>0.055</td>
<td>0.025</td>
</tr>
<tr>
<td>94865</td>
<td>0.0075</td>
<td>0.055</td>
<td>0.025</td>
</tr>
<tr>
<td>94866</td>
<td>0.009</td>
<td>0.055</td>
<td>0.025</td>
</tr>
<tr>
<td>94867</td>
<td>0.01</td>
<td>0.055</td>
<td>0.025</td>
</tr>
<tr>
<td>94868</td>
<td>0.02</td>
<td>0.055</td>
<td>0.025</td>
</tr>
</tbody>
</table>

SPECIAL TYPE .00007

Each 24c

No. 94861 0.002

No. 94862 0.003

No. 94863 0.004

No. 94864 0.005

No. 94865 0.006

No. 94866 0.0075

No. 94867 0.01

No. 94868 0.02

BYPASS AND FILTER CONDENSERS

Tobe in their silvered metal cases, are standard for all bypass and filter circuit use. Noiseless and unchangeable. Are used and recommended for all R.T. and eliminator "B" hookups. The 4.0 mfd. is especially suitable for use in good receiver units devices required with CX371 and similar power tubes.

<table>
<thead>
<tr>
<th>No.</th>
<th>Tobe Type</th>
<th>Sizes</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>94850</td>
<td>310</td>
<td>.1 mfd.</td>
<td>$0.70</td>
<td>$0.42</td>
</tr>
<tr>
<td>94851</td>
<td>325</td>
<td>.75</td>
<td>$0.45</td>
<td></td>
</tr>
<tr>
<td>94852</td>
<td>450</td>
<td>5.5</td>
<td>$0.45</td>
<td></td>
</tr>
<tr>
<td>94853</td>
<td>501 Molded</td>
<td>1.0</td>
<td>$0.70</td>
<td></td>
</tr>
<tr>
<td>94854</td>
<td>520</td>
<td>2.0</td>
<td>1.75</td>
<td></td>
</tr>
<tr>
<td>94855</td>
<td>530</td>
<td>4.0</td>
<td>2.10</td>
<td></td>
</tr>
<tr>
<td>94857</td>
<td>511</td>
<td>Buffer</td>
<td>1.50</td>
<td></td>
</tr>
</tbody>
</table>

400 LINE CONDENSERS

For use with Raytheon BH Tube and all other B supplies furnishing 180-250 volts. "Short Path" type giving greatest efficiency in operation.

<table>
<thead>
<tr>
<th>No.</th>
<th>Tobe Type Capacity</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96472</td>
<td>401 1 Mfd.</td>
<td>$3.00</td>
<td>$1.20</td>
</tr>
<tr>
<td>96473</td>
<td>402 2 Mfd.</td>
<td>2.75</td>
<td>1.50</td>
</tr>
<tr>
<td>96474</td>
<td>403 2 x 0.1 Mfd.</td>
<td>4.50</td>
<td>2.70</td>
</tr>
<tr>
<td>96475</td>
<td>404 2 x 0.1 Muf.</td>
<td>2.60</td>
<td>1.20</td>
</tr>
</tbody>
</table>

TOBE 600 LINE POWER PACK CONDENSERS

Extremely rugged, will operate continuously on D.C. voltages from 600 to 1000 volts. Containers filled in the finished form.

<table>
<thead>
<tr>
<th>No.</th>
<th>Tobe Type Capacity</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>94845</td>
<td>4 Mfd.</td>
<td>$3.50</td>
<td>$1.40</td>
</tr>
</tbody>
</table>

Tobe 1300 Line Surfproof Condensers

A new type condenser guaranteed to operate at 1300 volts D.C. No better condenser available at any price for this work. For use with two CX319 Tubes in push, pull or the new CX350 power tubes.

<table>
<thead>
<tr>
<th>No.</th>
<th>Model</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>94846</td>
<td>1300 2 Mfd.</td>
<td>$15.75</td>
<td>$9.00</td>
</tr>
<tr>
<td>94847</td>
<td>1300 2 Mfd.</td>
<td>2.10</td>
<td></td>
</tr>
<tr>
<td>94848</td>
<td>1300 2 Mfd.</td>
<td>6.00</td>
<td></td>
</tr>
</tbody>
</table>

SPECIAL TOBE B BLOCKS

Compact, easy-to-use blocks of condensers with conveniently arranged terminals. Tobe "B" Blocks are specified for the following purposes.

<table>
<thead>
<tr>
<th>No.</th>
<th>Model</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96489</td>
<td>R-171</td>
<td>$18.00</td>
<td>$10.80</td>
</tr>
<tr>
<td>96490</td>
<td>R-210</td>
<td>26.00</td>
<td></td>
</tr>
</tbody>
</table>

SPECIAL TOBE Interfilter

Reduces radio interference from oil burners, refrigerators, sewing machines, motors, etc. Provided with 5 leads.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>List</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96649</td>
<td>I-002</td>
<td>$10.00</td>
<td>$6.00</td>
</tr>
</tbody>
</table>

Satisfaction Guaranteed or Your Money Refunded
DUBILIER By-Pass Condensers
Type 907-908
These are Paper dielectric condensers designed for "By-Pass" work. Has special mounting feet. Solder lug terminals are provided. Occupies small space.

DUBILIER GRID LEAK RESISTOR
Dubilier Metalseal is an accurate and noiseless resistance. Glass case coated with extremely thin layer of specially prepared metal.

SMALL MICADON CONDENSERS
No. Capacity List Each
91826 .0002 $0.02
91852 .0005 $0.02
91822 .001 $0.02
91824 .002 $0.02
With Grid Leak Mounting
No. Capacity Each
91837 .00025 $0.02
DUBILIER Interference Eliminators
Designed to completely eliminate industrial interference and noise from radio receiving sets. Made in three types of Interference Eliminators.

AMSCO METALLIZED RESISTORS
Amso Resistor Grid Gages are permanent and accurate. Type 115, 2 watt.

AMSCO Resistor Couplers
For use in resistance coupled audio amplifiers for Hi Mu Tubes. Furnished without resistors or grid gate.

SANGAMO MICA CONDENSERS
An accurate mica Insulated condenser molded in bakelite. Specified in many kits and are always in demand.

DURHAM METALLIZED RESISTORS

MUTER GRID LEAK

Muter Bakelite Grid Leak Mounting
Moulded black bakelite base 2½" long. Center hole for mounting. Nickel plated brass clips with knurled terminals and lock nuts. Well constructed.

MUTER GRID LEAKS AND RESISTANCE MOUNTING
Black bakelite base, 1¼" long with ½" mounting hole. Nickel plated brass clips with knurled terminals and lock nuts. Well constructed.

Freight Prepaid on All Orders of $50.00 and Over
Yaxley Approved Radio Products are made to give reliable and lasting service and are fully guaranteed.

**CABLE CONNECTOR**

Plug Type

Complete as illustrated with 1 foot cord and cable markers. Mounting plate can be mounted on base panel by means of bracket or bracket may be removed and plated fastened to sub or back panel. 7 conductor.

No. 98255 600 Ohm $1.80

Type 612 Cable Connector Plug is the same as No. 668 excepting 12 conductors in place of 7, two pair being twisted A, G leads.

No. 98159 Complete List $5.00 Each $3.50

Extra parts may be furnished separately.

<table>
<thead>
<tr>
<th>No. Type</th>
<th>659 Plug and cable only</th>
</tr>
</thead>
<tbody>
<tr>
<td>List</td>
<td>$2.25</td>
</tr>
<tr>
<td>Each</td>
<td>$1.85</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. Type</th>
<th>658 Mounting Plate only</th>
</tr>
</thead>
<tbody>
<tr>
<td>List</td>
<td>75</td>
</tr>
<tr>
<td>Each</td>
<td>45</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. Type</th>
<th>654 Receptacle Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>List</td>
<td>50</td>
</tr>
<tr>
<td>Each</td>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. Type</th>
<th>635 Pin Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>List</td>
<td>1.00</td>
</tr>
</tbody>
</table>

**CONVENIENCE OUTLETS**

**Type 135**

Yaxley plates fit the standard switch box. These outlets are the proper way of house and apartment installation. Yaxley outlets are the best designed. Type 135 is for loud speaker connection. A very popular outlet.

No. 98264 List $1.00 Each $0.60

Type 136 is for aerial and ground, uses phone tip lugs which are furnished with the plate. No. 14 solid wire can also be used.

No. 98265 List $1.00 Each $0.60

Type 137 is for battery connections and is provided with 7 conductors.

No. 98262 List $2.50 Each $1.50

Type 241 is for aerial and ground and A.C. connections. Each $2.00. Each $1.20

The above outlets can also be furnished in bakelite at 15c net extra.

**GANG PLATES**

The above outlets are also furnished in combinations.

<table>
<thead>
<tr>
<th>No. Type</th>
<th>2 Loud speaker connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>List</td>
<td>$1.50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. Type</th>
<th>Loud speaker, aerial and ground</th>
</tr>
</thead>
<tbody>
<tr>
<td>List</td>
<td>$2.50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. Type</th>
<th>Aerial, ground and battery conn.</th>
</tr>
</thead>
<tbody>
<tr>
<td>List</td>
<td>$3.50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. Type</th>
<th>Loud speaker, aerial, ground and battery connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>List</td>
<td>$4.50</td>
</tr>
</tbody>
</table>

**YAXLEY JUNIOR JACKS**

A small, compact, well built Jack that extends 14 inches mounted. Suitable as standard Jacks. For all equipment.

<table>
<thead>
<tr>
<th>No. Type</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>96270</td>
<td>235</td>
</tr>
<tr>
<td>96271</td>
<td>200C</td>
</tr>
<tr>
<td>96372</td>
<td>235C</td>
</tr>
<tr>
<td>96274</td>
<td>235C</td>
</tr>
<tr>
<td>96275</td>
<td>235C</td>
</tr>
</tbody>
</table>

**Junior Jack Switches**

For use in sets where space is at a premium. Bakelite in- sulation.

<table>
<thead>
<tr>
<th>No. Type</th>
<th>Battery Switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>List</td>
<td>$0.70</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. Type</th>
<th>Two Circuit</th>
</tr>
</thead>
<tbody>
<tr>
<td>List</td>
<td>$0.65</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. Type</th>
<th>Double Circuit</th>
</tr>
</thead>
<tbody>
<tr>
<td>List</td>
<td>$0.65</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. Type</th>
<th>Five Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>List</td>
<td>$1.10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. Type</th>
<th>Two way, 2 circuit</th>
</tr>
</thead>
<tbody>
<tr>
<td>List</td>
<td>$1.20</td>
</tr>
</tbody>
</table>

**PUP JACK and PUP PLUG**

Pup Jack is easy to mount on front, sub or rear panels. Ideal for loudspeaker, battery, ground and antenna connections.

No. 98296 PUP JACK Per Pair $1.50

No. 98297 PUP PLUG List 9c Each 6c

**RHEOSTATS AND POTENTIOMETERS**

The original air-cooled rheostat with a velvet smooth action and fine adjustment. Base is bakelite. Very close adjustment. Single hole mounting. Complete with bakelite knob.

<table>
<thead>
<tr>
<th>No. Type</th>
<th>600 Ohm</th>
</tr>
</thead>
<tbody>
<tr>
<td>98297</td>
<td>10K</td>
</tr>
<tr>
<td>98298</td>
<td>100K</td>
</tr>
<tr>
<td>98299</td>
<td>1000K</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. Type</th>
<th>400 Ohm</th>
</tr>
</thead>
<tbody>
<tr>
<td>98300</td>
<td>10K</td>
</tr>
<tr>
<td>98301</td>
<td>100K</td>
</tr>
<tr>
<td>98302</td>
<td>1000K</td>
</tr>
</tbody>
</table>

**SPECIAL POTENTIOMETERS**

[Information not visible]

**Junior Rheostats and Potentiometers**

Suitable for a small variable resistor, mount in a single hole complete with bakelite knob.

<table>
<thead>
<tr>
<th>No. Ohm</th>
<th>200 Ohm</th>
</tr>
</thead>
<tbody>
<tr>
<td>98299</td>
<td>1000 Ohm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. Type</th>
<th>List $1.75 Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>98300</td>
<td>1000 Ohm</td>
</tr>
</tbody>
</table>

**INDUCTANCE SWITCHES**

[Information not visible]

**CABLE MARKERS**

[Information not visible]

**Yaxley Grid Resistances**

[Information not visible]

**TAXLEY WIRE WOUND RESISTORS**

[Information not visible]

**RESISTANCE CAPACITY**

<table>
<thead>
<tr>
<th>No. In Ohms</th>
<th>In Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>801</td>
<td>1</td>
</tr>
<tr>
<td>802</td>
<td>2</td>
</tr>
<tr>
<td>803</td>
<td>3</td>
</tr>
<tr>
<td>804</td>
<td>4</td>
</tr>
<tr>
<td>805</td>
<td>5</td>
</tr>
<tr>
<td>806</td>
<td>6</td>
</tr>
<tr>
<td>807</td>
<td>7</td>
</tr>
<tr>
<td>808</td>
<td>8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>List $1.15</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>10</td>
</tr>
</tbody>
</table>

**YAXLEY JAIL TIPS**

[Information not visible]
**Carter Midget Rheostats**

You can always depend upon Carter Products. They are made right, priced right and properly do all the things they are intended to do.

Carter MIDGET RHEOSTATS

<table>
<thead>
<tr>
<th>Ohm</th>
<th>2 Ohm</th>
<th>6 Ohm</th>
<th>10 Ohm</th>
<th>20 Ohm</th>
<th>30 Ohm</th>
<th>50 Ohm</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 96131</td>
<td>$0.50</td>
<td>List</td>
<td>Each</td>
<td>$0.30</td>
<td>List</td>
<td>Each</td>
</tr>
</tbody>
</table>

HEAVY DUTY "MIDGET" RHEOSTATS

Provided with a resistance strip ¾" wide which affords more radiating surface. Thoroughly reliable. Contact arm of new and unique design with smooth action. Code MW.

<table>
<thead>
<tr>
<th>Ohm</th>
<th>1/2</th>
<th>1</th>
<th>½</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 96132</td>
<td>96133</td>
<td>96134</td>
<td>96135</td>
<td>98200</td>
<td>98201</td>
<td>98202</td>
</tr>
<tr>
<td>Each</td>
<td>$0.75</td>
<td>List</td>
<td>Each</td>
<td>$0.75</td>
<td>List</td>
<td>Each</td>
</tr>
</tbody>
</table>

NEW CARTER WIRE WOUND TAPERED VOLUME CONTROL

Designed especially for use in the new A.C. circuits, to be placed between Aerial and Ground for sensitive volume control. Ideal for circuits where the useful range of adjustment is crowded into a small area or portion of the knobs rotation. Disperses 6 Watts.

<table>
<thead>
<tr>
<th>Ohm</th>
<th>100</th>
<th>1000</th>
<th>2000</th>
<th>3000</th>
<th>5000</th>
<th>6000</th>
<th>10000</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 98202</td>
<td>98203</td>
<td>98204</td>
<td>98205</td>
<td>98206</td>
<td>98207</td>
<td>98208</td>
<td></td>
</tr>
<tr>
<td>Each</td>
<td>$1.25</td>
<td>$0.75</td>
<td>$0.30</td>
<td>$0.15</td>
<td>$0.05</td>
<td>$0.05</td>
<td>$0.05</td>
</tr>
</tbody>
</table>

CARTER TAPERED POTENTIOMETERS

<table>
<thead>
<tr>
<th>Ohm</th>
<th>100</th>
<th>1000</th>
<th>2000</th>
<th>3000</th>
<th>5000</th>
<th>6000</th>
<th>10000</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 98209</td>
<td>98210</td>
<td>98211</td>
<td>98212</td>
<td>98213</td>
<td>98214</td>
<td>98215</td>
<td></td>
</tr>
<tr>
<td>Each</td>
<td>$1.50</td>
<td>$0.90</td>
<td>$0.50</td>
<td>$0.30</td>
<td>$0.20</td>
<td>$0.10</td>
<td>$0.05</td>
</tr>
</tbody>
</table>

CARTER "IMP" RHEOSTAT

All-metal frame and self-cooling. The last word in a high-grade small-frame design. One of the most popular types. Proper back of panel less than ¼" and is only 1½" in diameter.

<table>
<thead>
<tr>
<th>Ohms</th>
<th>0.5</th>
<th>1</th>
<th>1.5</th>
<th>2</th>
<th>2.5</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 96130</td>
<td>96131</td>
<td>96132</td>
<td>96133</td>
<td>96134</td>
<td>96135</td>
<td>96136</td>
<td></td>
</tr>
<tr>
<td>Each</td>
<td>List</td>
<td>$1.00</td>
<td>List</td>
<td>$1.00</td>
<td>List</td>
<td>$1.00</td>
<td>List</td>
</tr>
<tr>
<td>98216</td>
<td>98217</td>
<td>98218</td>
<td>98219</td>
<td>98220</td>
<td>98221</td>
<td>98222</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CARTER FILAMENT RHEOSTAT

With Filament Switch

Standard Imp Rheostat with a built in Filament Switch. A most convenient device, eliminating filament switch knob from front panel.

<table>
<thead>
<tr>
<th>Ohm</th>
<th>3</th>
<th>6</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 98216</td>
<td>98217</td>
<td>98218</td>
<td>98219</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

CARTER "IMP" POTENTIOMETER

Same design as Carter Imp Rheostat. Small and rugged. Fitted with binding post terminals.

<table>
<thead>
<tr>
<th>Ohm</th>
<th>200</th>
<th>400</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 96218</td>
<td>98219</td>
<td></td>
</tr>
<tr>
<td>Each</td>
<td>$1.25</td>
<td>$0.75</td>
</tr>
</tbody>
</table>

**New Carter Hi-Ohm Volume Control**

A non-inductive, wire protected, high resistance volume control. With carbonized resistance element. Complete with Bakelite arrow pointer knob.

<table>
<thead>
<tr>
<th>Ohm</th>
<th>3000</th>
<th>5000</th>
<th>10000</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 93400</td>
<td>93401</td>
<td>93402</td>
<td>93403</td>
</tr>
<tr>
<td>Each</td>
<td>$0.50</td>
<td>$0.50</td>
<td>$0.50</td>
</tr>
</tbody>
</table>

**New Carter "Hi-Pot"**

Potentiometer type with three terminals. Insures accurate and dependable control.

<table>
<thead>
<tr>
<th>Type</th>
<th>Speaker and Pick-up</th>
<th>Aerial and Ground A.C. Sets</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 98223</td>
<td>$2.50</td>
<td>$1.50</td>
</tr>
<tr>
<td>No. 98224</td>
<td>500,000 Ohm</td>
<td>500,000 Ohm</td>
</tr>
</tbody>
</table>

**CARTER PORTABLE VOLUME CONTROLS**

Case of black bakelite highly finished. Made in two types. One for volume control on Radio Set, also ideal for phonograph pick-up combination. The other for use with the new A.C. sets. Works equally well on other type receivers.

<table>
<thead>
<tr>
<th>Type</th>
<th>Speaker and Pick-up</th>
<th>Aerial and Ground A.C. Sets</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 98248</td>
<td>500,000 Ohm</td>
<td>500,000 Ohm</td>
</tr>
<tr>
<td>List</td>
<td>$2.00</td>
<td>$1.50</td>
</tr>
</tbody>
</table>

**CARTER RESISTORS**

CARTERS are very popular resistors and are used to reduce 6 volt current to 5 volts as required for different tube combinations. Also resistors for the 909 Tube.

<table>
<thead>
<tr>
<th>Type</th>
<th>Speaker and Pick-up</th>
<th>Aerial and Ground A.C. Sets</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 98231</td>
<td>500,000 Ohm</td>
<td>500,000 Ohm</td>
</tr>
<tr>
<td>List</td>
<td>$2.00</td>
<td>$1.50</td>
</tr>
</tbody>
</table>

**GRID RESISTORS**

<table>
<thead>
<tr>
<th>Ohm</th>
<th>4 Ohm</th>
<th>1/4 Ohm</th>
<th>1/8 Ohm</th>
<th>1/16 Ohm</th>
<th>1/32 Ohm</th>
<th>1/64 Ohm</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 97101</td>
<td>97102</td>
<td>97103</td>
<td>97104</td>
<td>97105</td>
<td>97106</td>
<td>97107</td>
</tr>
<tr>
<td>Each</td>
<td>$0.05</td>
<td>$0.50</td>
<td>$1.00</td>
<td>$2.00</td>
<td>$4.00</td>
<td>$8.00</td>
</tr>
</tbody>
</table>

**Center Tapped Resistors**

Carter Center Tapped Resistors are used for A.C. filament circuits. They are small and convenient to install. Furnished as follows.

<table>
<thead>
<tr>
<th>Type</th>
<th>Speaker and Pick-up</th>
<th>Aerial and Ground A.C. Sets</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 97408</td>
<td>6 Ohm</td>
<td>6 Ohm</td>
</tr>
<tr>
<td>No. 97409</td>
<td>10 Ohm</td>
<td>10 Ohm</td>
</tr>
<tr>
<td>No. 97410</td>
<td>15 Ohm</td>
<td>15 Ohm</td>
</tr>
<tr>
<td>List</td>
<td>$0.15</td>
<td>$0.15</td>
</tr>
</tbody>
</table>

**CARTER UPRIGHT RESISTORS**

Designed for upright mounting. Requires very little space. Furnished in the same sizes as the flat resistors.

<table>
<thead>
<tr>
<th>Type</th>
<th>Speaker and Pick-up</th>
<th>Aerial and Ground A.C. Sets</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 98223</td>
<td>4 Ohm</td>
<td>4 Ohm</td>
</tr>
<tr>
<td>No. 98224</td>
<td>8 Ohm</td>
<td>8 Ohm</td>
</tr>
<tr>
<td>No. 98225</td>
<td>12 Ohm</td>
<td>12 Ohm</td>
</tr>
<tr>
<td>No. 98226</td>
<td>16 Ohm</td>
<td>16 Ohm</td>
</tr>
<tr>
<td>List</td>
<td>$0.25</td>
<td>$0.25</td>
</tr>
</tbody>
</table>

**Upright Center-Tapped Resistors**

Same construction as the above, except that it is center tapped. Particularly designed for A.C. Filament Circuits.

<table>
<thead>
<tr>
<th>Type</th>
<th>Speaker and Pick-up</th>
<th>Aerial and Ground A.C. Sets</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 98227</td>
<td>25 Ohm</td>
<td>25 Ohm</td>
</tr>
<tr>
<td>No. 98228</td>
<td>50 Ohm</td>
<td>50 Ohm</td>
</tr>
<tr>
<td>No. 98229</td>
<td>75 Ohm</td>
<td>75 Ohm</td>
</tr>
<tr>
<td>List</td>
<td>$5.00</td>
<td>$5.00</td>
</tr>
</tbody>
</table>

We Carry All Nationally Known Radio Lines
Belden Colorrubber Flexible Hook-up Wire

The ideal wire for set hook-ups. Flexible and easy to use. Different colors facilitate finding the connections. Soft-tinned copper wire solders easily. Put up in cartons, 25 ft. coils.

No. Color Length List Each
94534 Natural...........40c 24c
94535 Green..............40c 24c
94536 Blue................40c 24c
94537 Red................40c 24c
94517 Brown..............40c 24c
94518 Yellow.............40c 24c
94519 Black..............40c 24c

No. 97100 RIO NATURAL 1000 ft. Each $7.50
No. 18 (16x30) STRANDED TINNED COPPER WIRE
List 50c Each 32c Colorrubber Insulation
No. 96419 Black...........50c Each 30c
No. 96420 Red..............50c Each 30c

Belden Tinned Hook-up Wire

No. 14 bare tinned hook-up wire in 2 ft. lengths, both round and square. There are approximately 32 pieces per lb. 25-Lb. Lots.

No. Type Per Lb. Per 100 Lbs.
94538 No. 14 Square...........50c $0.47
94539 No. 14 Round............47c $0.44

Celatsite

CELATSITE is made in two types. The flexible, stranded wire and trimmed, copper bus bar wire. Both have a non-inflammable "spaghetti" covering that will not ignite from hot soldering iron. Strips easily and does not dry out.

Acme Flexible Celatsite

Put up in individual boxes containing 25 ft. coils. 16 strands of No. 14. A color for each circuit.

No. Color Length
94021 Black..............25 Ft.
94022 Yellow.............25 Ft.
94023 Green...............25 Ft.
94024 Red.................25 Ft.
94025 Brown...............25 Ft.
94030 White..............25 Ft.

Acme Twisted A.C. Celatsite Hook-up Wire

For A.C. filament hookup. One strand of Red and one of Black twisted together. Packed 25 ft. coil in individual carton.

No. 97157 Per 25 Ft.

Solid Celatsite

Makes a very neat job. No. 14 wire with non-inflammable covering. Can be bent and rebent without cracking. 30' lengths.

No. Color Length
94936 Black..............30 Inches $0.05 $1.80
94938 Green..............30 Inches $0.05 $1.80
94939 Red.................30 Inches $0.05 $1.80
94930 Brown...............30 Inches $0.05 $1.80
94979 White..............30 Inches $0.05 $1.80

Acme Spaghetti Tubing

High dielectric strength. Perfect insulation, glossy finish, SPECIFY COLOR. 30 inch lengths.

No. 94931 Specify Color. Per Length..............$0.05 Per 100 Ft. 1.80

Corkico Braided

Braid is a hook-up wire made from either solid or stranded tinned copper wire covered with a cotton braid. The braid is pushed back when soldering is done and then replaced thus forming the neatest possible connection. Furnished in the following colors: Red, green, yellow, blue and black. Specify color when ordering.

No. Length List Each
9855 Solid..............25 Ft. $0.30 $1.80
98556 Stranded...........25 Ft. .35 21c

Carter Receptables

Many buildings are now being wired for radio. All plates are standard and can be mounted on standard outlet boxes or directly on wall or baseboard. Screws for both types of mounting are supplied.

No. 98421 For loud speaker. This outlet takes any push speaker cord without use of the customary plug. List $6.00 Each
98279 For aerial and ground. Also equipped with a standard A.C. outlet. Ideal for A.C. set installation.
List $1.00 Each

Carter "IMP" Cord Tip Jack and Plug


No. 92476 "IMP" Jack List...........$0.30 Each...........$0.15
92471 "IMP" Plug List..................$0.15 Each...........$0.09

Carter Cord Tip Jack

A simple, reliable cord tip jack with nickel plated mounting thimble. 1/4" hole. Minimum space required.

No. 98420 List...........$0.10 Each...................$0.06

Carter "Short" Jacks

This Jack makes good contact with any plug. Heavy Bakelite insulators. Solder lugs are used to facilitate soldering. 1 inch back of panel.

No. 93409 Open Circuit...........18c
93410 Closed Circuit..................30c 18c

Carter Radio-Phonograph Switch

Used in radio receivers to switch from "Radio" to "Phonograph." No more taking out and putting back of radio tubes. Makes three contacts to left and two to right.

No. 98349 List......................$1.25 Each...........75c

Carter IMP Battery Switch

Quarter turn snap switch makes positive contact. "On and off" name plate with pointer. One hole mounting. Complete.

No. 92464 List...........$0.65 Each...........$0.39

Carter IMP Power Switch

For use in 110 volt circuits. Compact, rugged construction. One of the smallest switches on the market. Mounts in 3/8" hole.

No. 96835 Type 113 List 75c Each 45c
Type 113 Power Switch same as above except single pole double throw.

No. 96833 Type 112 List 75c Each 45c

Carter Adjustable Resistors

The ideal A.C. hum adjuster. Similar in design to rheostat and potentiometer except with shorter shaft and provided screw slot for adjustment.

"A" Rheostat Type
No. Ohms 98362 98363 98364 98365 98366 98367
98261 1 2 5 10 15 20
List 50c Each...........30c

"A" Potentiometer Type
No. Ohms 98362 98363 98364 98365 98366 98367
98261 1 2 5 10 15 20
List 50c Each...........30c
MARCH Harrison Wholesale Co. Successor to Radio Accessories of The Harry Alter Co. 1929

AMPERITE REG. U.S. PAT. OFF. "The SELF-ADJUSTING" Rheostat
An automatic filament control which eliminates all forms of hand rheostats from every circuit of audio and radio frequency amplification. Permits the use of any type of tube. Approved by every prominent laboratory in the country. Complete with mounting.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Tube Volts</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>91800</td>
<td>1-A</td>
<td>201A or 301A</td>
<td>6</td>
</tr>
<tr>
<td>91802</td>
<td>2-V</td>
<td>UV109, C225</td>
<td>6</td>
</tr>
<tr>
<td>91803</td>
<td>113</td>
<td>CX11 &amp; CX371</td>
<td>6</td>
</tr>
<tr>
<td>91806</td>
<td>240</td>
<td>CX226</td>
<td>6</td>
</tr>
<tr>
<td>91762</td>
<td>5-A</td>
<td>3/4 Amp.</td>
<td>3</td>
</tr>
<tr>
<td>91772</td>
<td>4-A</td>
<td>1 Amp.</td>
<td>3</td>
</tr>
<tr>
<td>91770</td>
<td>5-A</td>
<td>1 1/2 Amp.</td>
<td>3</td>
</tr>
<tr>
<td>97300</td>
<td>225</td>
<td>Shielded Grid</td>
<td>3</td>
</tr>
<tr>
<td>97727</td>
<td>175</td>
<td>CX426</td>
<td>3</td>
</tr>
<tr>
<td>97723</td>
<td>222</td>
<td>U227 or C337</td>
<td>3</td>
</tr>
</tbody>
</table>

NEW DOUBLE AMPERITE MOUNTING
No. 97811 List 70c Each

MUTER FIXED RHEOSTAT
Has permanent resistance wire hermetically sealed in glass tube. Black Bakelite base. Recommended only for audio or radio amplifying tubes. List 50c.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Amp.</th>
<th>Stock No.</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>95969</td>
<td>For 1 301-A</td>
<td>.25</td>
<td>51706</td>
<td>$1.10 66c</td>
</tr>
<tr>
<td>95966</td>
<td>For 2 301-A</td>
<td>.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>95970</td>
<td>For 3 301-A</td>
<td>.75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>95971</td>
<td>For 3 301-A</td>
<td>.100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>95966</td>
<td>For 1 209-6V</td>
<td>.06</td>
<td></td>
<td></td>
</tr>
<tr>
<td>95970</td>
<td>For CX-112</td>
<td>.50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PROTECT and LENGTHEN TUBE LIFE
No. 91675 Open Circuit Each
No. 91676 Closed Circuit Each

A. C. RADIO SWITCH
A neat compact switch used by the leading set manufacturers. 3 amp. 125 volt, approved by Underwriters laboratories.

<table>
<thead>
<tr>
<th>No.</th>
<th>Stock No.</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97800</td>
<td></td>
<td>$3.23</td>
</tr>
</tbody>
</table>

TAR-RITE Soldering Iron
A high-grade product that you can sell at an attractive price.

| No. | 94350 | List 63c 6 Lots 70c |

"American Beauty" SOLDERING IRON
"American Beauty" soldering irons do the work easier, quicker and better. A very popular electric tool.

<table>
<thead>
<tr>
<th>No.</th>
<th>Tip</th>
<th>Weight</th>
<th>List Each Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>92860</td>
<td>19 oz</td>
<td>$8.00</td>
<td>$5.33</td>
</tr>
<tr>
<td>92865</td>
<td>26 oz</td>
<td>9.35</td>
<td>6.20</td>
</tr>
<tr>
<td>92866</td>
<td>42 oz</td>
<td>11.50</td>
<td>7.67</td>
</tr>
</tbody>
</table>

NEW Hotpoint SOLDERING IRON
The new type is furnished with two detachable tips.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Watt</th>
<th>List Each 3 Lots</th>
</tr>
</thead>
<tbody>
<tr>
<td>94287</td>
<td>15</td>
<td>2.75</td>
<td>$1.73</td>
</tr>
<tr>
<td>94285</td>
<td>15</td>
<td>3.00</td>
<td>$1.70</td>
</tr>
<tr>
<td>94286</td>
<td>15</td>
<td>3.25</td>
<td>2.28</td>
</tr>
<tr>
<td>94285</td>
<td>Extra Tip</td>
<td>.10</td>
<td>.07</td>
</tr>
</tbody>
</table>

TOOLS
RADIO HAND DRILL
Capacity is 0 to 1/4 inch. Heavy nickel plated frame, highly polished.
No. 59301 Each $1.29

DUTCH BRAND FRICTION TAPE
The nationally advertised Dutch Brand is an easy tape to handle and economical to use. Very strong with a lasting adhesive.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Each of 1 lb.</th>
</tr>
</thead>
<tbody>
<tr>
<td>22321</td>
<td>1-ounce</td>
<td>.30</td>
</tr>
<tr>
<td>22322</td>
<td>2-ounces</td>
<td>.40</td>
</tr>
<tr>
<td>22323</td>
<td>4-ounces</td>
<td>110</td>
</tr>
</tbody>
</table>

HAN-D HAMMER
Combination tool. Hammer is 1 1/2 in. long. Screw Drivers, one 5 1/4 in., 2 1/2 in. and 1 1/4 in. long.
No. 50610 Each $0.70

LONG NOSE PLIERS
A tool that every radio mechanic wants.
No. 97363 Complete Display

| 5 1/2 Inch | Stock No. 51700 | 44c Each |

RADIO SCREW DRIVERS
A useful size for radio work. Large handle furnishes better grip. Handle is longer in small enough at point for this type of work. Sells rapidly wherever put on display.
Length over all 3 3/4, 4 1/2, 5 3/4, contains three of each size.
No. 97363 Complete Display $65c

THE RADIO SENIOR
Blade is oil tempered and nickel plated. Just the thing for radio work. Width of blade, 1/4 inches. Furnished in the following sizes:

<table>
<thead>
<tr>
<th>No.</th>
<th>Blade Size</th>
<th>Each</th>
<th>Lots of 6 Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>97421</td>
<td>5 1/2</td>
<td>10c</td>
<td>12c</td>
</tr>
<tr>
<td>97422</td>
<td>6 1/2</td>
<td>14c</td>
<td>12c</td>
</tr>
</tbody>
</table>

SCREW ASSORTMENT
A handy assortment of nickle plated screws, lugs, nuts and washers commonly used in set building. 100 pieces to a box. List 50c.

| No. | 92673 | Each | 10 Boxes | $2.75 |

GALENA AND PYRITE CRYSTALS
Good quality tested crystals, put up in small wood pill boxes.
No. 91692 Pyrite $0.90
No. 91693 Galena $0.90

SOCKET WRENCH SET
A set of 7 tools combined into one compact convenient and practical tool. Consists of six hex sockets, screw driver bit and nickel plated handle.
No. 99858 Each $60c

Freight Prepaid on All Orders of $50.00 and Over
EBY BINDING POSTS

EBY BINDING Posts are always in season—they are advertised packaged and are always ready turn-over. Each post equipped with nut and soldering lug.

ADJUSTABLE POSTS

No. 92837 Standard Size, 1 1/8" $1.35 10c
No. 92838 Commander, 3/4" $1.20 10c

ENGRAVED EBY POSTS

No. 92800 Ant. 15c 10c
No. 92841 Gnd. 15c 10c
No. 92842 A Batt. 15c 10c
No. 92843 B Batt. 15c 10c
No. 92868 45 V. Plus. 15c 10c
No. 92869 90 V. Plus. 15c 10c

KESTER SOLDER

KESTER Solder is self-fluxing from tiny pockets inside strip. Ideal for all uses.

ACID CORE SOLDER

No. Spool. Per Lb. 1 Lb. 5 Lbs.
No. 91061 1 1/4 Lb. 66¢ 33¢
No. 91062 5 Lbs. 61¢ 12¢
No. 91063 10 Lbs. 60¢ 10¢

STIPS

Contains about 100 strips, 18 in. long. Box Core.

No. 91056 5 Lb. Pack. $2.85

RESIN CORE

No. Spool Per Lb. 1 Lb. 5 Lbs.
No. 91044 1 Lb. 61¢
No. 91045 5 Lbs. 61¢
No. 91046 10 Lbs. 60¢

FORMICA

Panels

BLACK

Panels

No. Spool Per Lb. Lb.
No. 97480 4 1/2 Lb. 3.92
No. 97481 8 1/2 Lb. 1.22
No. 97482 16 Lb. 0.72
No. 97483 24 Lb. 0.51

WALNUT

Panels

No. Spool Per Lb. Lb.
No. 97484 4 1/2 Lb. 4.22
No. 97485 8 1/2 Lb. 1.07
No. 97486 16 Lb. 0.69
No. 97487 24 Lb. 0.48

SOLDIER LUG FOR RADIO

Plain tinned lugs which are very reliable in making connections. Strong and well built. Package contains 24 lugs.

No. Size $0.30 $0.45
No. 9373 Long $0.30 $0.45
No. 9374 Stubby $0.50

KELLOG LUGS

Fine lugs for quick and permanent soldering

No. Size $0.60 $0.82 $1.00
No. 9373 1/4" Long for No. 6 Screw $0.35 $0.45
No. 9373 3/4" Long for No. 8 Screw $0.45 $0.55

Satisfaction Guaranteed or Your Money Refunded
Brunelli-Jones Radio Battery

Positively the Best Battery at Lowest Prices

BRUNETTI-JONES

"A", "B" and "C" batteries are built to meet exacting specifications, which result in long life, exceptional strength and vitality. Only the highest grade chemicals are used and the cells are built extra strong. Equipped with Brunelli-Jones battery for a leader—they satisfy.

Brunelli-Jones "A" Battery

This is an "A" battery that appeals to the purchaser both from the standpoint of appearance and performance. Exceptional shelf-life. Every battery tested up to standard. No. 94650

Each 25c 24c

10 Lots

25c 24c

Brunelli-Jones "C" Battery

A good, serviceable "C" battery that keeps up its strength for extra long time. No. 94655—4 1/2 Volt

Each 25c 23c

5 Lots

25c 23c

Remember to Deduct 2 1/2% Discount

Brunelli-Jones SQUARE CELL "B" Battery

The new construction ideas incorporated in SQUARE CELL Batteries means greater satisfaction and longer life. Contains SQUARE CELLS.

No. 94499

Each 52.90, Less 2% or

2 84c

NET

Upright Type 45-Volt

This is a large size battery that is a favorite on account of its shape. Cell space is apportioned to give longest life.

No. 94654

45-Volt

5 Lots Each $148 LESS 2% $145 NET

EACH $152 LESS 2% $149 NET

Super-Giant Size

More than twice the capacity of the ordinary size. The multi-tube sets of today require an extra sturdy, oversize battery, which is the most economical in the long run. Profit by selling this oversize battery.

No. 94685

5 Lots Each $1,937 LESS 2% $1,890 NET

EACH $2 02 LESS 2% 198c NET

Betterbilt Batteries

Extra Thick Plates for Uniform Current

The plates in Betterbilt Radio Batteries are extra thick, insuring the even, smooth flow of current so necessary for good radio reception. The case is the genuine all rubber Abbell container—absolutely leak-proof; clean and safe for handling in the home. Every Betterbilt is guaranteed for full two years, and with reasonable care will far outlast that period. Each battery is thoroughly inspected before shipment and fully charged, ready for immediate use. Our special "house-box" packing insures safe delivery—no chance for damage or spilling.

Guaranteed for Two Years

No. 92770

100 AMP. 11 PLATE

PRICE 7.21

LESS 2% .14

7 07 PER

NO. 92771

120 AMP. 13 PLATE

PRICE 8.40

LESS 2% .17

8 23 NET

NO. 92772

140 AMP. 15 PLATE

PRICE 10.25

LESS 2% .21

10 04 NET

NO. 92784

180 AMP. 17 PLATE

PRICE 11.42

LESS 2% .23

11 19 NET

HIGHEST QUALITY MATERIALS

Nothing but the best is used in Betterbilt Batteries. Thick sulphate resisting plates; rigid lead grids; finest selected oxides; genuine Port Oxford cedar insulators; and the famous Abbell solid rubber case. Do not confuse with cheap batteries. Every one is a high-grade, full weight, GUARANTEED BATTERY.

Special 100 Amp. 11 Plate Battery

Use the Hundred-Amp-Special if you need a radio battery to meet price competition. It's a mighty good one for the money. Thinner plates and a cheaper case than our regular Betterbilt, but designed to give satisfactory service. Better, in fact than many so-called heavy duty batteries. 6 volt 11 plates.