# HARRY ALTER'S RADIO BOOK

ECEMBER 1928



523.70 Less 2 .... \$19.50 110-Volt A. C. Operation 6-12-Volt Battery Operation 35.00 110-200-Vols D. C. Operation 15-00

# RELIABLE HOUSE REOVER\$1.000.0000

The new Tibe A Supply will great the consistent dawless performance levinges as consistent dawless performance levinges in straight outstracted of the function of the functio



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Falter When It Comes From Harry

# HARRY ALTER'S

A Periodical Publication Listing High Quality Radio Receivers, Kits and Accessories, for **DEALERS ONLY** 

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Established 1919

Vol. 9

December, 1928

No. 12



Play Up the Xmas Gift Idea

Any kind of radio merchandise has the Xmas gift any aim of radio seronandse has the Imas gift appeal. Why not make the best of it. Whether it is batteries, tubes, parts or a new speaker, it's always an acceptable and at the same time a lasting and welcome gift. Make your plane now to give your store window a real Imas appearance, convey in your newspaper advertising the thought of radio as yuletide merchandise. It will pay you well.

#### And Now a Heavy Vote of Thanks

This is the last issue of our monthly Radio catalog to reach you this year. I have tried my best to deserve your confidence and extend to all my customer friends many thanks and close with a

#### Merry Christmas to You All

P. S. - We suggest to order early, but last minute RUSH ORDERS will be taken care of pre

Harry alter

# 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.p.

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 de-fective, we will give you shipping directions. Send no goods back without first writing us for instructions.

Michigan The Harry Alter Co. Copyrighted 1928 by the Harry Alter Co

# TEMPLE SPEAKERS

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 Speak-er sets another standard of reproducer value.

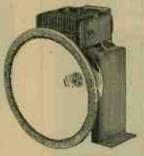
Developed and perfected
by the renowned Temple
engineering staff and
made under the most made under the most stringent manufacturing supervision. It is not only a worthy addition to the Temple line, but an outstanding example of the highest type of reproducer that has ever been announced. Encased in the same frame as the Model 20 it has the same dimensions with the exception of being 1½ inches deeper. Weight 25 ½ lbs.

No. 97474 List \$49.00. Each \$29.40 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 tone quality. same volume. Everything in the mechanical construction is the same. 110 volt. 60 cycle. No. 98560 List \$35.00

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 over 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 amazing in 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 134" high, 11" wide and 5½" deep. Weighs 8 lbs.

No. 97470 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 construction 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 tonal hauty, handling capacity and response to all frequencies have been made. Resplendent in its artistic beauty, it is the lax word in speaker construction. 60 inch center line air column. 124." high. 11.2" wide, 81." deep. Weight 12% lbs.



No. 97480 List \$29.00 Dealer's Price.....

#### Air Column Speaker Model 11



The Temple Air Column Model II is a genuine expenential air column speaker which is undoubtedly the highest quality speaker to be had at its price totally. Made under the same exactlms specifications which have made Temple Speakers pre-eminent for faultless reproduction. It is consequently a speaker of marvelous tonal quality and tremendous volume. It is 124," high, 113," wide, 8%," deep and weighs 124, 115. 113" wi 121/2 lbs.

#### **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 eisentials 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 tension principle, whereby the slightest impulse is carried from the driving unit to the diaphragm without any loss. These factors, stremthened with the performance of a bacefully developed powerful Double Action unit accounts for its enormous volume and full response to all audible frequencies. Come in three different sizes which makes possible easy installation in Mo. Model Size Depth W 9747 Z 98x21" 5 842" 849 97473 K 14 x14" 842" 849



#### The Temple Comparator

This device is used to compare and analyze characteristics of every 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 \$3.50

10

#### DE LUXE DYNAMIC CONE REPRODUCER



This attractive portable reproducer is beautifully encased in a walnut cabinet with a satinuous from and can be obtained for battery or A. C. operation. A. C. Models are equipped with equalizer switch for controlling receptive quality.

NEW LOW PRICES

No. Model Operation List Each 97462 976 6 Volt Battery..857.00 \$34.20 97464 979 110 Volt A.C...75.00 45.00

#### NEWCOMBE HAWLEY DYNAMIC CHASSIS



Newcombe Hawley Dynamic 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

97390 Model NH-6, 6 Volt Battery Operation. \$21.00 List \$35.00. Each....\$21.00 No. 97391 Model NH-9, 110 Volt A. C. Operation Each ... \$24.00 40.00.



TABLE AND CONSOLE MODEL DYNAMICS

These attractively proportioned models, in beautiful burl 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 MODEL

| Model | Operation | List | Each | 906 | 6-volt | Battery | ... | \$70.00 | \$42.00 | 909 | 110-volt | A.C. | ... | 88.00 | 52.80

#### CONSOLE MODEL

For the Smaller Sets

Their Model 926 Operation List Each 6-volt Battery ... \$80.00 \$48.00 110-volt A.C. ... 98.00 58.80

For the Larger Sets 97378 959 110-volt A.C. .\$110.00 \$66.00

## 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 wast knowledge to the construction of this line of dynamic cone, magnetic cone and air column speakers.

#### MAGNETIC CONE TABLE SPEAKER



This table is equipped with the Newcombe-Hawley magnetic and Dynamic cone unit and is so constructed as to accommedate practically any radio receiver. The unit is hidden from view behind a cloth covered grill which in no way intoferes with the transmission of sound impulses. Where lack of space does not permit the use of a conole, the table speaker serves the double purpose of holding table and speaker. Made of wainut and arti-tically designed and finished, this speaker adds to the beauty of any server with the speaker adds to the beauty of any server with the speaker adds to the beauty of any server with the speaker and finished, this speaker adds to the beauty of any server with the speaker and so the beauty of any server with the speaker and so the server with the speaker and so the server with the s

#### **COMBINATION CONSOLE** AND PHONOGRAPH



A unique model in fine burl 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 pick-up. Also provided with compartment for phonograph records. For light socket operation only. Complete with electric pickup. only. Comp No. 97381

List \$237.50 Each....

Less 2% \$. измения в в при в

#### MAGNETIC CONE PORTABLE SPEAKER



This attractive Portable Reproducer is equipped with the New Model 80 Magnetic cone Unit described below, Furnished in a beautiful burl wainut cabinet with a cloth grill. Extremely sensitive and capable of ample volume without districtive. ortion

No. 97380 List, \$28. \$28.00. Each....

#### 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, Promision in a plain wood battle box. Diameter of cone 9". Diameter of ec. No. 97379 List, \$18.00.

Each ......



Table and Console **Models** with 72 in. Air Column

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

No. Model List 97383 Table No. 71. \$53.00 97384 Console No. 72. 63.00 List ...\$53.00 37.80 Also furnished in the 86-inch chassis model without cabinet No. 70.

No. 97385......List \$25.00 Each \$15.00

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







#### PEERLESS DYNAMIC 19-A

With 9 Inch Cone

With 9 Inch Cone
In the Peerless Dynamic
Speaker, one can feel secure
that he has the very finest in
radio reproduction. Such lifelike 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 wainut carved into a
beautiful Gothic design. Height
16 5/16"
No. 98586 6 Volt

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

### Dynamic Chassis

For 50 to 60 Cycle A. C. Light Socket

List \$10.00 Each \$24.00 Less 2 c or.



#### **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 amature having no polarity. The Peerless is a best seller in spite of its high price because on comparative tests it is better. The Gothic designed mahogany cabinet—the handsome grille, the fool-proof rugged construction are other big features. Try the Peerless reproducer.

No. 96886 List \$30.00 Less 40 \$18.00 Less 2 o 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".

No. 98184 List \$65.00 List \$50.00

84 110 Volt A. C. Each \$39.00 No. 98185 6 Volt Each \$30.00

Less 2% Less 2%



#### 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 9½ wide, high and 6 inches deep. Complete with 2 feet of cord. Hear that deep pich tone that only the Peerless



## PEERLESS

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 baffle board for the Dynamic Speaker. Measures 30"x30"x14" deep.

No. 98588 Peerless Magnetic Speaker. List \$50.00. Each.....

Less 2%

No. 95890 110 Volt A. C. Dynamic Speaker (9" cone). List \$100.00.

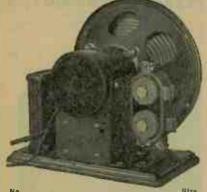
110-220

#### UTAH DYNOLA SPEAKER



A specially ntone seil moisture proof corrusted cone
assures quality reproduction
in the Dynola, re- ardiess
of climatic conditions. This
is quite an item in a moisalmosphere where an inferior speaker will produce
a distorted reproduction. A
beautiful cabinet made of
5 ply walnut with genuine
Burl walnut front, inished
in antique brown. Truly a
work of art. The cabinet is
of non-directional design
having the same grill and
appearance, both fron all and
appearance both fron 12. "
hich, 16½" wide and 12. "
deep.

Each \$39.00 Less 2% 33.00 Less 2% 33.00 Less 2%



#### UTAH Dynamic Chassis

The Cha i of the above hown speaker can also be obtained without the cabinet for use in a console. Manufactured by the leaders in their field, it manifestation uf uf inc their experience and the oretical knowledge speaker construction.



#### Utah "No. 65" **Dynamic 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 sweet tone that emanates from this speaker, you will understand why it desertes the name of Utah. Made of genuine walnut plywand linished in entique brown. Front and back have same grille and apper tance.

Height 11½" with 15", depth 10". Equipped with 10 ft. power cord and switch.

switch.

110 Volt A. C. Operation. List
6-12 Volt Battery Operation. 35.00
110-200 Volt D. C. Operation. 35.00 Each \$29.70 Less 2% 21.00 Less 2% 21.00 Less 2%

#### NEW UTAH Utah 8% In. Cone for Consoles



You will say it is wonderful when you hear it. Something new and amazing hecause of its lew price. The metal frame around the edge of the cone permits easy fastening in any consecutive seasy fastening in any consecutive seasy fastening in any consecutive seasy 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 9½, "x3½", x5." Make mounting very easy and supplies needed baffle surface.

very easy and supplies usurface Surface List \$16.00 Less 40% \$9.60 Less 2% or .....

\$941 Net

SAME AS ABOVE BUT WITHOUT
CASE
The same speaker as illustrated above
is also supplied without wooden case.
Very compact—will fit any console.





#### UTAH X-30 MAGNETIC SPEAKER

Here is more exclusive of Pitaly's ability to pull out a speaser that outstaines the field in brilliancy of performance and dollar for dollar value. Fugliagned with a sease that such critical results are a maturellike tollar motor and a special processing which eliminates adjusting, it is indeed a product which insures consistent, excellent reproduction. In a cabinet of genuine walnut plyword finished in antique brown, it is a treat for the eye with the subtle simplicity. From and back are identically allike. Dimensions 11½" high, 15" wide, 8½" deep.

#### **UTAH X-20 MAGNETIC SPEAKER**



Another one of Utah's achievements is this beautiful, yet inexpensive reproducer. It is equipped with the Utah Power Motor (magnetic) speaker, a unit, which needs no introduction. Cabinet is made of genuine walnut plywood finished in antique brown. Dimensions 10½" high, 12" wide, 7½" deep.

No. 98561 List \$19.50. Each, Less 2% ..... 1170



#### **UTAH UNITS**

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

No. 92736 With Stand List Each ..\$8.00 \$4.80 92732 Threaded .... 5.00 3.00

Unit

96077 De Luxe Unit .... 7.50 4.50 98449 Big Chief 3.50 2.10

# 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 250 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.

FARRAND MAGNETIC GOTHIC

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

No. 97452 Model 60 List \$30.00 Each.....



#### **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. List

No. Model 97453 72— 6 Volt DC 97454 72— 110 Volt AC \$45.00 \$2700

Less 2%



Model 68

Each \$27.00

No. 97461

table of handsome two-tone walnut, designed to harmonize with the mod-ern 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.

**Farrand** 

Magnetic

Table Speaker

An exceptionally graceful

List \$45.00 Less 2% or

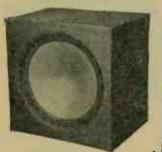
#### **Farrand** Tiffany **Table Speaker**

Less 2%

\$1800

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 101/2 in.

Model 74— 6 Volt DC.... 74—110 Volt AC....



#### **BOX CHASSIS**

Same chassis as listed at the right, mounted and housed in wood sounding chamber. Especially suitable for installation in consoles. Size 91/4 x 91/4 x 61/2 inches.

No. 97457 List \$18.00 Each \$10.80 Less 2% or



#### CHASSIS

Unusually small-size cone reproducer of unlimited tonal capacity and volume. Blare-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

\$082



#### PANEL CONE

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

No. 97459 List \$18.00 Each \$10.80 Less 2% or



#### Junior (Clock Type)

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

No. 97460

List \$22,50

Each \$13.50 Less 2% or

#### O'NEIL ILLUMINATED SHIP SPEAKER



A beautiful speaker com-bining ornamental value bining ornamental value with quality mechanical construction. Generous sized oval frame full rigged ship, 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 in antique brown. Equipped with lamps, plug. lighting lamps, plug, lighting and phone cords. Stands 20 inches high.

No. 98547
List \$25.00
Each

900 Less 20% 

THE AMSCO ORTHOPHONE The newest device to protect the speaker, where power tubes are used. It is placed between speaker and set by external connections. Increases volume, improves quality and protects the speaker from the intense direct plate current. 4%"x2\%"x2\%". Essential for power tube

No. 94759





## REPRODUCER

the An aristoret in its Gothic dealers the An only reproducer, in it physical structure reflects the april of the tone, that the finest entire ring facilities have put into it. The capinate of a cunine but walnut. The next developed driving motor sturdily constructed and dust proof, with moving parts completely covered. Size 12" high, 12" wide, and 2" deep developed the construction of the construction Net Net

6" deep. No. 98545 List \$19.5 fanet de e ener e enere ene e e e enenedener ebenedener eneredener elemente de elemente de

O'NEIL STANDARD CONE SPEAKER



In this O'Neil 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 the drawn up so as to give forth a tone, so smooth and so clear, that will earn your immediate endorsement. Its low price should endorsement. Its low price should make it a record seller this year. Finished in beautiful mahogany bronze, and the cone is tan with a mottled effect in green.

No. 98548 List \$14.75 Each \$8.85

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#### ANSONIA CHASSIS

Here is the chassis of the above shown model which can be obtained for use in consoles. A smooth even tone quality, void of any distortion or disturbances. Ruggedly constructed of the highest grade materials. 914"x914"x5 4". Dimensions,

No. 98546 List 118,00 Each \$9.72 Less 2% or

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Most Wonderful **Tone You Ever Heard** 

#### 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 for store demonstrations. Comes in two sizes. Gives all best effects of both the cone and expotential horn type speaker.

#### GIANT "CONE-HORN"

Air column 41 in. 141/2" wide, 211/2" high, 24" deep (overall). Weight 26 lbs.

No. 97253 List \$23.00 40% \$13.80 Less 2%

...........

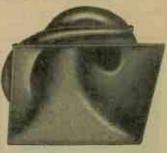
#### STANDARD "CONE-HORN"

34" air column. 14½" wide, 19½" high, 14½" deep (overall). Weight 22 lbs.

No. 97252 List \$22.00 Less 40% \$13.20

#### AIR COLUMN HORNS WITH UTAH UNITS

The popular long airc o l u m n speakers that reproduce the voice and song so faithfully. These excellent tone chambers come equipped with the a m o u s 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.

Depth Column 40-10%
12" 62" \$11.50
12" 82" 14.00 Each \$6.21 7.56 8.64 9.72 Front Area 8 "x20" 11 "x13" 96616 96617 19 1/2 "x20" 19 "x24" 18.00 96619 19 Complete with UTAH UNIT-Less 2% 12 FT. TONE CHAMBER WITH A DELUXE UNIT

144" \$18.00 42"x26 \$30.00 

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



#### BETTERBILT MAGNETIC CHASSIS

Ideal for use in consoles. Will take ample volume with-out a rattle. Constructed out a rattle. Constructed with the best of material obtainable. And its low price should make it a record

No. 98549 List \$18.00. Each \$6.00 Less 2% or..

SE 88

#### NEW WEBSTER ELECTRIC PICK UP

The Webster Electric Pick-Up can be attached to the phonograph and connected with the radio set in a few minutes. Will faith-fully reproduce all frequencies now recorded on the best Othophonic record. 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.....

#### PHONO LINK

The Phono Link is the last word in the musical reproduction. By far the lightest pickup on the lightest pickup on the market reducing the wear of your records to a min-imum. Instant change imum. 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. 96754 Complete, List, \$7.50; Each, \$4.50 Less 2% or.



#### NATHANIEL

# BALDWIN



Baldwin Units have acquired a reputation that has given them a reputation that has given them a commanding position in the eyes of the radio dealer as well as the 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. Are threaded and fit any standard console speaker console speaker.

Baldwin Concert Unit.....\$10,00

#### **Temple Air Columns** For Console Cabinets



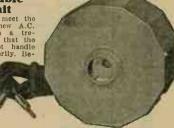
In this Air Column Speaker we have something the dealer and set builder have always desired. A quality light weight speaker for console cabinets. This Temple product offers all the advantages of all previous models—the minute enginering, the quality of material—pluthe advantage of being light in weight which will set a new standard in air column construction.

weighing 36 lbs. No. 97478..... ..........List \$24.00 Dealer's Price \$14.40

#### **Temple Double Action Unit**

Specially 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 much satisfactorily. Because of its superior construction setentials of the superior exactness, perfectly matthed upt

feetly matched part and most rivid testing the Temple unit is equipped to overcome these dif-



No. 97475. List \$6.00. Each \$3.60 Less 2% or .....\$3.53 Net
AIR CHROME TYPE
Specially designed for the Air Chrome type of speaker,
No. 96093. List \$10.00. Each \$6.00 Less 2% or .....\$5.88 Net \*



#### **TOWER PHONES**

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

#### Very Special Price

No. 93262 List \$2.95. Less 50-10%

#### SALT LAKE CONSOLE UNITS



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

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

# 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 COUNTER-BALANCED TONE ARM provides correct weight at the needle point for obtaining best reproduction. New design triangular needle holder takes either steel or fibre needle. Complete with Counter Balanced Tone Arm, adapters for both AC and DC Sets, and volume control.

No. 96713 Model 124 For use with AC or DC scts.
With Tone Arm.
List \$13.50. Each....

\$8.10

The De Luxe Model No. 105A will meet all requirements for those who do not desire a tone arm. Reversible attachment permits left or hight hand installation. One model for both AC or DC sets. Model 105A; List, \$10.50. Each..

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

#### PREMAX



#### 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 a telescoping process. Has a bell insulator. Thoroughly insulated weather vane, which operates smoothly, makes the aerial an object of interest. Can be lengthened to 101/2 feet. 4 ft. 4 in. collapsed.

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

Easily and safely erected—various sections telescope one within the other thus providing convenience in handling in stock. Clamp on side clamp; mast at length desired. When using the Premax Timbrella 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 mast by are universal for all purposes.

No. Length
98550 7 Foot \$2,50
98551 List Each

ACCESSORIES Umbrella Connector Adapter .....

#### KABINETTENNA

In addition to being one of the most efficient inside aerials, Kabinettenna proaerials, Kabinettenna pro-vides electric power for Dy-namic speakers and A. C. Radio Receivers. No more unsightly wiring, double plugs, cumbersome aerials. Requires no lightning ar-rester. Reduces static and local interference. A trial will prove its superiority.



No. 98595. List, \$4.50. Each\$2.70 Less 2% or..... 65



#### BETTERBILT **HOWL ARRESTER**

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

No. 98596.

List, 50e. Each, 11c. Lots of 10......





The Trav-Ler has founded a New Standard in Portable Receivers. It is now universally accepted by the trade as a most profitable item.

#### **Loud Volume Lovely Tone**

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

#### Weighs Only 23½ Lbs.

Size 81/2 x 10 x 121/2 inches.

Weighs only 2312 pounds, completely equipped. Very easy to carry as a suitease.

#### Attractive Appearance

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

# 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 two stages Audio. Phone Jack can be operated with Batteries or Eliminator. It comes equipped with binding posts for Antenna and Ground connections.

#### **Specifications**

#### Priced less Tubes and Batteries

No. 96745 List \$57.50 Each \$34.50 Less 2% or \$



#### Accessories

Complete accessories for the Trav-Ler consist of 5 CX299 tubes, 3 Bright Star A Bat-teries, 2 Bright Star B Bat-teries, and 1 Bright Star C Battery.

No. 96746 List \$18.65



#### BODINE DE LUXE LOOP

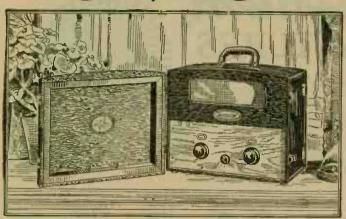
The new BODINE De Luxe is a beautifully finished loop, that is both compact and efficient. The frame is selected solid walnut, hand rubbed. Winding covered with lustrous silk braid. Has special low capacity 3 contact jack, which permits loop to be rotated continuously.

No. 93488— For .0005 Condenser No. 93489— For .00035 Condenser List \$12.00

Each.

20 Less

# man



The Tyrman "50" All Purpose Radio was designed to meet the demand for those who want a real radio for outing, camping and travel. It is distinctly different from any other portable you have ever known. An extra long air column tone chamber, fitted with a well known speaker unit, insures strong, clear, full, rich tonal qualities. The window dials set into a beautiful golden brown panel gives a most attractive appearance. The aerial is in the cover, hidden by an attractive walnut frame. Case is covered with a durable sharp grain leather-like material which matches the finest luggage. There are sales and profits waiting for you. Demonstrate the Tyrman "50" on your counter. Display it in your window.

No. 97430 Less tubes and batteries. List \$64.50 Each \$38.70 less 2 % of .......

#### **Attracts Attention** Appeals to Everybody

The Shielded Grid Tube used in the Tyrman "50" is many times more powerful than the ordinary tube. That's the reason for its volume. Bear in mind that the Tyrman "50" is not a competitor of your regular radio

line - its market is distinctly different. Every motor boat and yacht owner, camper, motorist and college student is a prospect.

#### Accessories

Complete acces-Complete accessories required for the Tyrman 1"50" are 4 CX299 tubes, 1 CX322 Shielded Grid Tube, 2 45-voit Bright Star E Bright Star C Battery, 3 Bright Star A Batterles, set completely Battery, 3 Star A Batterles. Set completely equipped weighs only 26 pounds— well balanced— full grip handl— easy to carry evernight bag.



Complete Equipment

No. 97431 List \$24.90. Each.....\$14.95

### B. M. S. HOME BROADCASTER



The New Idea for a Radio Party

The Hone Broadcaster consists of a microphone, a long extension cord, and a tube socket adapter. Just slip the tube out of the letter socket, plur in the adapter and the Broadcaster is result to do its work. By simply pre-ding the witch button on the nicrophone you cut off radio reception and speak through the loudgrader. Fool you 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 everybook. The Broadcaster can be left permanently connected to the receiver as it will not interfer with radio reception. The Broadcaster lends it eld to many commercial uses such as entertuliment announcements. classroom work, lectures, in fact anywhere where voice amplification is useful.

No. 96495 For D.C. Sets. No. 96487 For A.C. Sets. List \$7.50. Each \$4.50 Less 2% or.....



#### THE NEW TALKING TAPE

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

fame of	OU TO TOURS OF THE PROPERTY IN	Bortren coror	011.3.
No.	Length	List	Each
91597	100 ft	\$1.00	\$0.60
91598	50 ft	60	36

#### 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 had. Cuts down local interference and gives you all around better radio reception. The Lite-Tenna is 10 inches high. Finished in old gold with beautiful shading. Amber shade and weighs 1% lbs.

No. 96369 List \$7.50. Each....

## Birnbach Tuner



#### In Attractive **Duco Colors**

Wound on genuine colored Bakelite. Does not warp or shrink. A marvel for performance. Very attractive. Tuning range 200 to over 550 meters

No. 97069 97070 97300 97301	Typa 60 61 62 63	FOR .0005 CONDENSER  Color RED. 3-Cir. Tuner RED, RF Coil. GREEN, 3-Cir. Tuner GREEN, RF Coil.	1.20
No.	Type	FOR .00035 CONDENSER	Each

97184 636 637 97302

# Why Not Use the

E are direct distributors of CUNNINGHAM Tubes and carry a large stock at all times. We can serve you promptly on all your requirements.

CUNNINGHAM Tubes without a question have created in the field of radio a degree of Satisfaction and Good Will second to none. There are actually millions of users and this universal acceptance offers you dealers a minimum of sales resistance. The effective national and local advertising by CUNNING-HAM is a real and decisive sales help in the merchandising of these standard tubes

We Give You Benefit of All Reductions in Price



lara tubes.							
No.	Туре	Volt	Amp.	List	Each Les	ss 2% or Net	
91616	CX301-A	5.	.25	\$1.50	\$0.98	\$0.96	
91620	CX300-A	5.	.25	4.00	2.60	2.55	
91607	C11	1.1	.25	2.50	1.63	1.60	
91618	CX12	1.1	25	2.50	1.63	1.60	
91609	C299	3.	.06	2.25	1.46	1.43	
91619	CX299	3.	.06	2.25	1.46	1.43	
91634	CX340 (Hi-Mu).	5.	.25	2.00	1.30	1.28	

#### QUALITY OUTPUT TUBES

For Use Only in the Last Stage of Audio Frequency CX220 Dry Battery Amplifier Tube, plate voltage, 135 volts, "C" battery voltage of 22.5 volts required. The planent operated parallel with remaining tubes. Pits only CX sockets. CX ockets.
No. Type
91612 CX220 ..... Volt 3.0 \$2.50 Amp. 0.125

CX112A For storage battery sets. Can be used with 90 tive grid voltage of 9 volts. Especially recommended for TRF circuits.

No. Type Volt 91613 CX1124 ..... 5.0

CX371A | Conditional quality output is 40 times that obtainable from CX301-A. | 1.35 volt | 1.80 volt | 1.35 volt | 1.80 volt

CX310 Recommended for heavy day range from 90 to 425 volts, with a corresponding "C" of 4.5 to 35 volts. Can be used for No.

No.

Type
91614 CX310

List Each \$1.79

\$1.79

\$2.75

List Each \$1.79

\$1.79

\$2.75

\$1.79

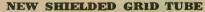
\$2.75

\$2.75

\$3.70

\$4.5 to 35 volts. Can be used for No.

CX350 New Amplifier tube to be used in last audio stage. Filament of the improved coated ribbon type. Grid bias from 45-70 depending on plate voltage. No. 97244 CX350 6 Volt 1.25 Amp. List \$11.50 Each \$7.48



CX322 New Screen Grid Radio Frequency Amplifier. Maximum Plate voltage 135 voit. For specially designed circuits only. Has extra connection through metal cap at top of glass bulb. Must have 15 ohm resistor (tapped). 3.0-3.3 voit filament. 132 amp. No. 97171 Type CX322 ... List \$6.50 Each \$4.23

#### RECTIFYING TUBES

CX380 New FULL WAVE Rectiner with a maximum output of 125 milliamperes. Has new, oside-coated ribbon filament of great rursednes. No. Type Volt Amp. 12.5 Each 19475 (XS8) ... 5.0 2.0 \$1.25 \$2.76 Type CX380 and CX381 are interchangeable for Type CX313 and CX316-B, but special units are required for delivery of increased output.

CX381 New SINGLE WAVE Rectifier with a maximum output necessary for sets using greater power, such as CX371 and CX310.

No. Type Volt Amp. List 94976 CX381 ..... 7.5 1.25 \$7.50

#### SPECIAL TUBES

For regulating line voltage, plate voltage and for protection of plate circuit against A. C. Current.

CX374 GLOW LAMP for plate voltage regulation. Voltage on amplifier tube cannot exceed 90 volts regardless of number of tubes or fluctuation in line voltage. No. 91645 CX274 ..... List \$4.75 Each \$3 09

C376 BALLAST Tube, designed for use in series with primary of "B" eliminator transformer. Has mogul base.

No. 91647 C376 ......List \$6.50 Each \$4.23

C377 PROTECTIVE Tube, designed for protection against "shorts" in plate circuit; eliminates possibility of accidental burning out tubes. Special double contact bayonet base.

No. 91648 C377 ......List \$1.75

#### **NEW CUNNINGHAM A. C. TUBES**

The new CX226 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 batterles, rectifying devices and filter systems. Type CX326 is a 115 valt raw A. C. filament tube drawing a current of 1.05 amp. and has standardized CX base. Type (327 is a so-called A. C. heater type and primarily intended as detector tube, used with CX326. Requires 1.75 amp. at 2½ volt A. C. Type C327 employs a special 5-prong base.

X-326 New A. C. Tube No. 94977 List \$2.25 Each... \$1.46

10

C-327 A. C. Detector, 5-prong \$2.60

#### TORE "A" SUPPLY



The new Tobe "A" Supply will give a consistent, flawless performance because it is durably constructed of the finest materials obtainable and engineered with the greatest scientific 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. 98464 List \$35.00. Each \$21.00, \$2.058 Less 2% or......



Majestic Power Units have a nationwide reputation that has been gained through highest quality. Majestic Power units are built to give even greater efficiency, greater radio power and are sold at lowest prices, All Majestic Units are guaranteed for one year against electrical and mechanical defects.

#### MAJESTIC SUPER "B" UNIT

**Immediate Delivery** 

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 tone quality. Four terminals. Dimensions, 101. "%51g" x91.". Cabinet finished in rich black crystal enamel. Complete with extension cord. Output 50 Mils at 180 Volts.

No. 94979 Complete with Rectifier Tube. List \$29.50. Each \$17.70. Less 2% or.....

#### **POWERIZER "GENERAL** MODEL"

Converts any D. C. set or Radiola 20 into an A. C. set with 310 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 310 tube for power output. Uses 1 CX380 and 1 CX310 tubes. To be used with 60 cycle current. Size, 11 "x7 18"x8 %".

No. 98565 List \$54.00

Each (Tubes and Accessories Extra)



#### POWERIZER P D 5

Furnishes Complete A, B, C Supply for 210 power tube amplification for sets using 199 and 222 tubes. Particularly adapted for Radiola 20, Radiola Super Heterodyne, Radiola Super 8, Victor 7-3, 7-30, or Brunswick combinations. Requires no change in wiring. Uses 1 CX380 and 1 CX310 tubes. Works from 60 cycle current. Size, 19"x514"x6".

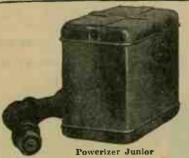
No. 98566

List \$80.00 Each (Tube and Accessories Extra).....

#### 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 CX380 and 1 CX310 tubes. Adapted to 60 cycle current. Size, 19"x5\frac{1}{2}"x5\frac{1}{2

No. 98567 List \$84.00. Each (Tubes and Acce Accessories Extra)..... Less 2%



#### **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 CX380 tube, adapted to 60 cycle current. Size, 104, "757," x71,"

No. 98368 List \$35.00. Each (Tubes and Accessories Extra)..... \$2100

#### **POWERIZER "A"**

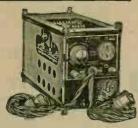
A very economical "A" unit that supplies "A" and "C" current. When used with any "B" supply, converts any D. C. set for A. C. operation. Uses no tubes. Adapted for 60 cycle current. Size, 64 "x31 "x54". No. 98569 List \$12.00. Each (Accessories Extra)......\$7.20 Less 2%

**POWERIZER ACCESSORIES** 

3.30

Recoudant successores del socioca del coccesa de coccesa de un encoccesa de la compansión d

No Bulbs · No Liguids · No Noise



#### KUPROX "A" POWER MODEL 302-A

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 filterer. delivering perfectly smooth uniform current. Contains no tubes, no acids and are dry of any liquids whatsoever. Tapped transformer and adjustable switch sermits adjustment in output voltage to meet individual set and line conditions. Can be used in commention with any standard "B" eliminator, having a receptacle into which the "B" eliminator is plusted in and current is controlled by pendant write; of the "A" unit, Dimensions: 5½" wide, 7" high, 12½" long. Capacity 2½ amp., operate 8 tube or smaller set. No. 96015 List \$55.00.

#### MODEL 301-A

Designed for use with Radiola or other dry cell receivers. Being somewhat smaller than the 302-A, it fits confertably in a Radiola Cabinet. Capacity 10 CX-199 or other .06 Amp., 3-4 Volt tubes. Dimensions: 5½" wide, 4¾" high, 12½" long.
No. 96013 List \$32.50.

Each ......\$19.50 Less 2%

Pioneers in the experimentation of socket power units, Kuprox has forged to the top with their line of "A" and "B" eliminators.

"B" **POWER** UNITS



#### MODEL 361-B

Operates all sets of six tubes and less with or without power tube. Adjusted to the in-dividual output of the set at installation. Supplies "B" current only up to 35 M.A. at 45, 39, and 180 yolts. Dimensions: 4" dividual output of the set at installation.

Supplies "B" current only up to 35 M.A. at 45. 90 and 180 volts. Dimensions: 4" wide, 74 "high, 11" long.

No. 96006 List \$26.50. Each....\$15.90

CX 380 Rectifying Tube, extra

#### MODEL 310-B C

For large sets equipped with CX 312 or 371 Power Tube. Has separate adjustment for detector voltage. Dimension: 54, wide, 77 high, and 124, long. Supplies 22, 45, 674, 90 and 135 volts, together with 4 and 10 volts "C."

No. 96007 List \$15,00. Each....\$21.00 CX 380 Rectifying Tube Extra

#### MODEL 316-B C

For large receiving sets with C X 371 Power tube. Suppll 22. 5, 671, 90, and 180 volt. B, to sether with and 45 volts. "C". Dimension: 5\%" wide, 7" high, 1214" long. No. 96019 Li t \$47 50. Bach....\$22.50

CX'80 Tube Extra

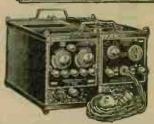
#### MODEL 314-B C

De iened for ue with Railiola, or other sets using 199 tube and equipped with special cable to facilitate connecting to the standard Railiola Terminal Board. Furnishes current for 45, 90, and 125 volts "B." together with 4 and 221 volts "C." Dimensions: 6" high, 5" wide, 12" long.

No. 96014 List \$37, 50, Each....\$22,50

CX380 Tube Extra

No Bulbs . No Liquids . No Noise



#### KUPROX "ABC" POWER

This, "AB" power unit, is the same used in A C receivers except that the "A" portion ther of, supplies smooth direct filament current. Instead of fluctualing alternating current. This permits the use of standard tubes, such as CX 301-A, CX 322, etc. This power unit can be sold separately, the "A" and "B" units, functioning independently of one another. one another,

MODEL 306 ABC
For operating all 8-tube and smaller sets.
Merely a combination of Models 302-A and
510 BC as shown and listed in the first woodlumns. Dimensions 10% wide, 7" high,

commans. Dimensions 10 % wide, 7" min. 12½" deep. 12½" deep. No. 96016 List \$65.00. Each...\$39.00 (CX 380 Rectifying Tube, extrs. List \$4.25. Each, \$2.78.

MODEL 307 A B C
This is a combination of Models 302-A and 316 B C as shown in the first columns and each part works as described therein Dimensions: 1015," wide, 7" high, 1215," lens.
No. 98018 List \$67.50. Each...\$40.50
CX 380 Rectifying Tube, extra. List \$4.25, Each, \$2.76.

#### KUPROX RECITIFIER REPLACEMENT UNITS



#### TYPE A-110



#### TYPE A R-3

Designed especially for replacing electrolytic rectifying jar in Phileo socket power units. May also be used on other non-acid 5 amp., 6 voit-trickle chargers, such as dit-trickle chargers, such as bould Unipower, Unitron. Earle. & G. Johnson, Silite. 75 amp., c. Only two wire to connect. Standard finish, crackled

No. 97169 List \$5.00. Each ......\$3.00 Less 2,0

.....10c



Type G R-1

For replicing Tungar 1Ampre (Small) bulbs on
Tun ar 1-Amp. Trickle
chat cr. Phileo Socket
Powers (Bulb med 11
Will at Sacket Paw Ir
(Bulb Models), Extinocket Powers (Bulb Models). Develops a higher
chat in rate with less
current con umption. Silent, and requiring little
attention, it last indefinitely. Cannot be used
for charring butteri
larger than 6 volts. Standard finish, marcon.
No. 97170 List \$5.00.

Hach. \$3.00 Less 2%

#### KUPROX MULTI RATE RECTIFIER



The New Kuprov Multi-Rate Rec-tifier is some-thing in a trickle charger, which will, in a short time pay for it-

No. 96002 List \$11.50. Each \$6.90 For 25-30-40 Cycle.

No. 96012 List \$12.50. Each \$7.50

#### Kuprox Heavy Duty Battery Charger Type TP 1



12

For simplicity, economy and speed in char in all radio or automobile hatteries mething can be at this char ir. Chartes two 6 voit betterie at a variable charting rate between two and ten smps, according to condition of battery. Will not chare 12 voit batteries. battery. Will no

No. 96033



SPECIAL!

KUPROX MODEL 120 UNIT
A SPECIAY BUY! This Kuprox Model
120 unit, is offered to you at a special
low price to reduce our inventory. This
price will prevail ONLY while present
stock lasts.

A perfect combination B Eliminator and Power Amplifier for all 12. Adds one stage of nower turn amplifier into any set without change in while Absolutely no hum, no acid. Supplies 45, 90, 180 volt "B" and 5 volt "0" current at output of 5 mils. Uses one CX 530 tube and one CX 371A tube.

No. 96008 List \$45,00.

\*\*Each\*\*

\*\*S19.95\*\* Less 2 7



# terling

The STERLING 6 voit Societ Powers give ample current for sees from 3 to 8 to research to research to research to research to research to result supply for any set. It delivers a maps, at 6 voits. Has 10½ in. x 7 in.

No. 9689 New Model complete with Recther.
List. \$37.50 Each \$322.50
Less 2% or

#### No. R-93 DRY "A" POWER UNIT

This unit has the same constructional qualities as the one little above, we prince for a cap city for wide at 1 s. . Deliver a regular 6 voic error at a majore, for the interest of tub. The R-93 i designed for use with the ull we Tan or bulb, which delives a site filament current. Significantly with the No.

98186 Lit, 137.50.

\$2250 Less 2%



#### STERLING "B" R-81

For sets with 3 to 8 tubes. Will supply 40 miles at 100 volts. Both amplifier and detector voltages are variable and an additional primary control regulates all voltages proportionately. A staytheon approved product, using the Type BH Tube. A very efficient "B" supply at a good competitive price. Size 7½ in. x 4½ in. x 5½ in.

No. 96890 List \$24.00 1.

Less Tube
Each \$14.40 Less 2% or Net

Each \$14.40 Less 2% or Ruytheon "BH" Tube Extra No. 92441 List \$4.50 Each \$2.70

#### STERLING TUBE TESTER R-514



98 87 Li t, 13.50.

Less 2%



#### A C AND D C TUBE TESTER

For use on counter or in service department. Gives a complete accurate check and re-activates all A C or D C tubes. V ry lass to operate. Plugs int 110 Volt A C line.

\$2100 Le . 20



#### STERLING 'B-C'R-98



The Universal Model which will operate any radio set without hum. 180 volt maximum output. Supplies 40 volts C. Independent and variable voltage regulation is provided for both Detector and R. F. A primary voltage control Inside the case regulates A. P. and Power voltages. Ruython approved. Stands comparison with any eliminator. 4½ in. X.11½ in. X.6 in. No. 96841
List \$33.50
Less Tube
Each \$20.10
Less 2% or 19 Net

Raytheon "BH" Tube Extra No. 92441 List \$4.50 Each \$2.70

#### STERLING RADIOLA TEAM

These two unit are eld separate and constitute a complete A and B supply for a unit 3 volt tubes and up to 135 volt "B." The A side (1994 unit amp. Tungar bulb, the "B." side the new CX330 tube. Both units have been used for a long time and are hing excellent attraction.

Trip
R-91 "A" Sid
Tun ar Bulb, "Amp.
RT 11 "B" Side
CX-3 - Cunnin-har



#### Sterling Meters **New AC Universal** Tube and Circuit; Tester

Tester
For complete AC testing; can be used in store or home stylee. Adapter plugs into ockets to test tubes or circuit; locates faults in sockets, witing or transformers. Should be in every shop for AC testing.

No. 97.26 List, 85.00. \$2100 Less 2%

#### AC Voltmeter R-417

any AC circuit up to 150 volts. Indispensable for AC set esting. G. 97034 List, 7.50. Each.....\$4.50

#### Sterling Voltage Stabilizer R-115

The line where problem which has so long placed beaver with AC tube sety has finely the originated. With the Automatic Variage Stabilizer one can control the AC line supply resarding the law high a low high subject of how high the law to be supply to a supply the law of how it fluctuated. Absolutely unverying current, it has removed the last obstacle in AC at and parformance. Very early in table, and havior no movable parts, it is an interest in the problem. It is a required in the origination, it is a required in the origination of the parts of the law o



#### STERLING PRE-AMPLIFIER



The Pre-Amplifier, Sterling's new achievement, brings new performance to old radio sets. It can be connected to any 4- or 6 volt direct current set, without rabuilding, rewiring, or charging batteries or power packs. Reduce the riving better tone, or ter ditance and selectivity. I one GX-522 ser a rid tube. For use with any set using 301A, 299, C-11 or GX12 tubes.

No. 96834. Li t 112.50.

Less 2 % No. 97171 CX-322 Tube, \$4.23

Extra

#### STERLING AC TRI-POWER

The new and rem skable Scaling Tri-Pow r supplies "A". "B" and "C" voltages for A. C. Turies to R di = 16. Crubes Bandbox, Freed-Bl emann, Kolster, Fada, Shwart-Wenner, Boeh, Shara and providing by other 5 to 8 tube D. C. et. In 15 minute you can certor the efform D. C. to a full-stedged A. C. et. This is all done without make work or after rief. A runel, reliable and proven product. SPECIFY MODEL AND MAKE OF SET.

COMPLETE WITH CABLE
AND ADAPTER
Comes complete, nothing the to buy.
Full instruction with each let. Raytheon Rectifying Tube EXTRA LIST
\$4.51. Each \$2.70.

No. 96896 List \$38.00. Bach \$22.80

Net

#### FAN STEEL BALKITE RADIO POWER UNITS

Balkite's new line of Radio Power units are the most advanced and reliable on the market. Re-quire 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 with the Balkite line to take care of the demand for a separate A unit which Balkite is not including in their line of Power Units this year. Replaces batteries entirely and supplies "A" current direct from the and supplies "A" cur-rent direct from the light socket. The Ideal 6 volt "A" supply. For 110 Volt, 60 Cycle current only.

No. 98450 List \$35.00.

Each \$21.00 Less 2% or

20<u>58</u>

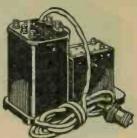
#### MODEL N (ELECTROLYTIC) TRICKLE CHARGER



Standard type Balkite charger. Charging voltage 5 and .8 amperes for heavy or moderate service requirements. Operates from 110-120 A. C. 60 cycle current. Weight 6½ lbs.

No. 98452 Complete. List \$9 50. \$59 Each \$5.70. Less 2% or.... NET

#### MODEL F (DRY) TRICKLE CHARGER



Employs new Bakilte rectifier unit, and requires no attention. Bune dry—does not use a tube. Charging rate 5 and 8 amperes for moderate or havy service requirements. Oper us from 110-120 visuals. C. 60 cycle current. Weight 615 the

List\$6.60 No. 98453 \$11.00. Each \$6.60 Less 2% or.....

BALKITE A B COMBINATION MODEL G (DRY)



Replaces both "A" and "B" batteries. Contains no battery in any form and is absolutely dry. Complete in itself. Requires no attention or adjustment of any kind. Silent in operation. Also supplies power to 110 volt dynamic speakers. Dry "A" output 2 amps. at 6 volts. Dry "It" output 30 mills at 157.5 volts using CX380 rectifier. Operates from 110 volts A. C. 60 cycle current. Weighs 25 lbs.

No. 98451 Complete less CX380 tube. List \$69.50. Each \$41.70. Less 2% or

86

BALKITE MODEL E (ELECTROLYTIC) "B" UNIT



Uses standard Balkite electrolytic rectifier and new Balkite filter condensor insuring smooth, hum-free operation. Very compact and requires no adjustment. Output 30 mills at 157½ vilts. Operates from 110 volt A. C. 60 cycle current. Weight 134 ibs.

No. 98454
List \$32.00
Each \$19.20
Less 2% or

BALKITE MODEL T (DRY) "B" UNIT



Uses CX 380 rectifier and new Balkite filter condenser. Designed to avoid overload in the power tube. Compact—requires no attention. Can also be used to operate 110 voit dynamic speakers. Output 30 mills at 157½ voits.

No. 98455 Less CX380 Tube, List \$28,00. Each \$16.80 Less 25 or List S

#### **ELKON PRODUCTS**

Elkon Dry Rectifiers are standard equipment on thousand of "A" eliminators and triske that is now in use. Keep Elkon Rectifier in stock this season. The replacement demand will be very large. Type V-4

**Type M-16** 



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

change. No. 98456 List \$7.00 Less 2%

\$ 120 NET



Thousands of trickle chargers using the Elkon Type V-2 lint have the their long avice of 5,000 hours and will need new units this season. Three units in a set as ther are three in each charger. No. 98457 Set of 3. List \$1.00 Each \$2.60 Each ... \$2.40

#### TYPE BJ AND BNK



Elkon Replacement Units for Balkite Triekle chargers and Balkite type J chargers are the only ones authorized by Fansteel Products Co., for replacing the zeld jars in their units. The Elkon viso increases the collectency. Charging rate of Model N is increased to 1 ampere, Model K to .8 ampere, and the type J 20% on all charging rates.

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

#### TYPE EBH AND E 80





No. Type
98460 For "B" Eliminators using
B H Type Tubes.
98461 For A. C. Sets or Eliminators
L t \$6.06
Lefs \$2.60
Less 2% or.



# AMPLUS WESTINGHOUSE

#### "A" SOCKET POWER

An efficient 6 volt "A" Power supply contained in attractive metal case with splendid finish. The unit consists of a rugged Amplus 40 amp. battery with perforated rubber separator and wood insulation; a genuine WESTINGHOUSE RECTOX Disc Type charger, an automatic relay which controls the radio set and "B" supply and a "B" Receptacle. A most compact unit that will give absolute satisfaction. Has 5 amp. safety fuse. Toggle switch for intermittent or constant charging. Give this AMPLUS "A" Unit a trial and you will use it

FILINE

No. 96901 List \$30.00.

Each \$9.95. Less 2 % or .....

NET

# The GR



GREENE "B" 5-6-7

Winning nation wide recognition as a salest leader. Hum 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 power like variations, Compactly and ruggedly constructed, it will ast a life time. Dimensions 3%" wide, 94° high, 9" leng.

Complete with Rectifying Tube.

98196 List, \$27.50. \$1650 Each......\$1650



**GREENE "A"** 

Really the last word in "A" socket power units. Vibrationless, humproof, adjustable, requiring no water proof, adjustable, requiring no water or acid, it furnishes unfalling A. C. light socket "A" power for all sets using up to 10 D. C. tubes. Maximum output 2½ amp. at 6 volts which is ample for all tubes including power tubes. Beautifully finished in an enameled rose-leaf green case. Dimensions 3%" wide, 9%" high, 9" long. Complete.

No. 98195 List, \$37.50. \$2250 Less 2% Each....



GREENE "B" HI POWER

This "B" power is constructed for heavy duty purpo, furnishine power for all high voit go set up to 10 DC tubes. Delivers full stren th current, insuring constant controller reception. No variable adjustment to confuse as unskilled operator. Similar in size and cestan to "B" 5-6-7 unit.

Complete with Rectifying Tube

No. 98197 List, \$50.00. \$18.00 Less
Each.

#### Greene "B" Super Power

The "B" Super power unit is practically the same as the "B" Hi-Power, except for the fact that there is a variable switch on the Super which can adapt itself to high and low voltaces. Furnisher a smooth, slent current to all sets up to 12 tubes. Complete with Rectitying Tube

No. 98198 List. \$20.10 Less Each.

## RECTOX Trickle Charger



Designed to meet the copular demand for a trickle charger. Will charge 6 volt storage batteries at two rates, namely 4 amp, and 34 amp. Adapted to use with control switches. Has standard maroon enamel case.

"Unfailing Power for Each Program Hour"

standard maroon enamel case.
Contains no bulbs, chemical or
liquids or vibrating points. New
copper oxide principle of rectification
introduced by
WESTINGHOUSE.
Nothing to give
trouble. Economical
in operation. NEW
TYPE WITH
DOUBLE CHARGING RATE.
No. 96862List \$11.50

Each.... \$8.05

94681

3 Lots.... \$7.65



#### **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. Each \$3.00

No. 94558 6.00 3.00 3.00 94556 94555 94559





types. 94680

Each 5 Lots \$0.16 \$0.15 .16 World R



#### HANDY **Metallic Rectifier Tube**

Can be used with all makes of chargers, to replace Tungar bulb. Contains solid metallic dises and is absolutely noiseless. Will deliver truly rectified current of 2 to 2½ amp. for 6 or 4 volt type. Two types: Furnished with heavily nickeled case or open type without ease. Has standard screw base.

#### WITH NICKELED CASE

No. 97237 List \$4.00

Each \$2.40 Less 200 or ....

A FINE REPLACEMENT UNIT



PHILCOTRON CELLS FOR REPLACEMENT

For 6-Volt "A" Units. List \$4.00

Packed 4 to box Less 2%

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

Packed 4 to box. Less 2%

For "B" I'mit List \$1.00

Packed 4 to box. Less 2%

SANTES AND THE OFFICE OF THE PROPERTY OF THE P



Hydrometer for "A" and "B" **Batteries** 

\$23.50

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

Each 10 Lots Per 100 Each 10 Lots 24c

26c

**Break-Not** Hydrom-

eter

No. 91684

Break-Not Hy. Greakflot drometers, are nationally known and advertised. Lower part of hydrometer made of unbreakable rubber. Glass is eliminated to a great extent. No. 91686 List \$1

Each 67c; 10 Lots 63c.



#### "BOSS" HYDROMETER

An accurate instrument with clear scale, Each 10 Lots

No. 91687 List \$0.75. 43c 40c

BETTERBILT GLASS CASE Trickle



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

7.50

Volt

\$270

#### MASTER VOLTAGE CONTROL

New principle for reducing ex-cess line voltage. All that is necessary to do is to ascertain your maximum line voltage from the power comopany and plug the A

C set into the corresponding outlet of the Master Voltage Control. No voltmeter, or tools required to install. Has no moving parts therefore nothing to get out of order. The most dependable low priced voltage regulator on the market.

No. 98139 List \$2.50. Each \$1.50. Less 2% or

#### KATO "A" ELIMINATOR FOR 32 VOLT DIRECT CURRENT



Here is something that Dealers: 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 9½x5x7½. 8 ft. of cord. Fully guaranteed for one year

Radio Tubes List.

Kato 32 Volt "A"..... 97350

3 Volt \$20,00 \$12.00

Kato 32 Vol "A".....

5 Volt

12.00

KATO 32 VOLT CHARGER

Used for charging radio and auto storage batteries in connection with 32 volt farm lighting plants. Charges at rate of 3 to 5 amp. rate. Complete with ammeter.

32 Volt Charger. List \$10.00 Each..... No. 97352

\$6.00

#### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Wirt AC Voltage Regulator



Protects your A C tubes from line surres and makes them last longer. Very small, easy to use, and inexpen-sive. It is installed

sive. It is installed between the house current convenience autlet, and the plug from the receiving set. Dealers can after to give one away with the sale of a set to prevent service calls. Place your order today.

No. 96463 List \$2.25 Each...

20.00

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

List Oz. ....\$0.75 \$0.45

**Marathon Rectifier** 



Marathon Rectifier Type C-10
Fitted with a stundard screw base and its suitable for use in place of all 2-amp, built type charging devices, using a transformer with a secondary voltage of from 15-18 volts under load. Has ellp connection on top, which is used in the same manner as tube external connection. Furnishes single wave rectification at 2 amp, charge. amp. charge.

No. 97073 List \$4.00 Each \$2.40 ... Less 2% or

\$235 NET

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

#### SUB-ANTER IMPROVED



This a mazing device has proved its overwhelming superiority in contrast with noisy outside antennas wherever introduced. noisy butside affectings will-ever introduced. Positively nothing else like it, despite claims made by imitators. Works on any type of set—in any soil—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 "stat-icky" summer night. DX will icky" summer night. DX will come in loud and clear above the static. Makes most sets the static. 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.

No. 96795 Model specially designed for Atwater 4 specially designed for Majestic 96796 96797

specially d signed for R. C. A. K6 specially designed for Zenith sets K7 specially designed for Crosley

\$7.50 \$4.50

Less 2% or

#### RESISTORVOLT AUTOMATIC **VOLTAGE REGULATOR** PROTECTS A C TUBES



small device which checks ex-cess voltage before it can damage A C tubes. Has a speconstructed cial coil of an imported material which

No. Ty 96733 1 to 7 96734 1 to 10 Less 2% or....

\$

#### DE LUXE RESISTOR-VOLT

Luxe The De Luxe model is identical in purpose with the original Resistorvoit except that it is made of nickel plate brass, and encased in a perforated tube which gives it the air cooling features. For all model model

No. 98598 List \$1.75 Each \$1.03 Net

#### RELIABLE AUTOMATIC RELAYS



96799

97084

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

List \$2.00 2.00 13 63 96088

RELIABLE CONVENIENCE TYPE

The new 1927-28 Convenience Type Model with extra fine electrica and mechanical characteristics. Voltage drop of this relay is .1 volt per ampere used. Low resistance assure proper relay operation at all times. tion at all times.

No. Model Volt List
No. 23 SA 6 \$3.50
96090. 24 SA 3 3.50

YAXLEY No 440 Full Automatic Power Control

#### YAXLEY FULL AUTOMATIC CONTROL No. 440

The new full-automatic Yaxley control for charger and "B" climinator. Has arrangement to cut charger, when battery is fully charged. No danger of overcharging battery. No. 97257 List \$7.50

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 tubes with a power tube in connection with A C s. Size, 12"x34"x". Black crystalline finish. Tubes Less Tube .....List \$30 CX 380 Tube for above..... List \$30.00 Each \$18.00

#### X-L LINK



No. 98599 List \$5.75 Each \$3.45 Less 2% or.....



#### BLITZ COMMERCIAL CHARGER

With the Blitz you can charge 6 to 15 six-volt batteries at one time. Also charges at the same time up to 12 "B" Batteries of either 24 or 48 volt strength. A very good charger for quick, dependable work. Can be used for bringing up sulphated batteries. Three types complete with rectifying bulb. Each

110 Volt, 25 Cycle, A.C.... 94632

110 Volt. D.C. \$42.50

**BLITZ 5 BATTERY CHARGER** 



## CONTINENTAL RELAY The Continental Uni-Switch can be used with both "B" eliminator and Trickle Charger or Trickle Charger alone. Automatic in operation. A very finc, compact relay unit, 4½" indiameter.

No. 94742 List \$3.00 Less 40%



## IEWELL METERS

JEWELL AC-DC SET ANALYZER



No. 97173 Pattern No. 199\$**73**12 List 397.50 Each Less 2%





#### JEWELL RADIO TEST BENCH

Designed for servicing radio sets on the dealers premises. Working surface is 36" high, size of surface 24"x42". Testing panel is steel black enameled with all markings engraved directly in steel and filled with white. Panel carries seven meters as follows: 0-7.5 voits DC; 0-75 Volts DC; 0-15-350 DC Milliamperes; 0-4-8-16 Volts AC; 0-130-4750 Volts AC; 30-40-750 V

No. 98300	Complete as	shown	 List \$278.50 212.00	Each \$208.87 159.00
98301	Panel Less	Bench	 212.00	159.00

No. 150 A. C. CHECKER

No. 150 A. C. CHECKER
Tests all makes of tubes without resorting to batteries of any kind, by merely plugging into a 110 volt, 60 cycle ontlet. Comes complete with 5 prons socket, 4 prong adapter, compound filament rheostat, 0-4-8 volt A C meter, and 0-15 millsumeter. Just the thing for counter checking.

Model 250. List \$38.00 Each \$28.50

No. 110. A Tube Checker
Does all that the No. 150 A C checker will do except it uses batteries in place of the 110 volt line current.
No. 98303 Model 110A. . . . . . . List \$45.00 Each \$33.75



#### BEEDE SOCKET TEST METERS

Designed for making various set tests by removing tuoe from socket and inserting meter base in its place.

No.		Lis	
97367	#1-712 A. C.	Voltmeter 2.5	0 S1.50
97368	+-300 D. C.	Voltmeter 3,0	00 1.80
98462	0-600 D. C.	Voltmeter 4.	0 2.70
98163	0-50 D. C.	Voltmeter 3.0	00 1.80
98474	Adapter for	97367 Meter	0 .54

#### NO. 40 BEEDE PORTABLE TESTER

Scale reads 0-300 Volts, 2-in. Dial, 16-in. 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'/0 or . . . . \$



#### WESTON MODEL 537 AC AND DC SET TESTER

This Weston Model 537 AC-DC radio set Tester is a complete outfit, most ingenuously designed and fully adaptable to the testing requirements of every set made whether operated by direct current from batteries or battery substitutes, or by alternating current from socket power.

Complete with sockets, adapters and instruction book.

No. 97254...List \$100.00

"28 YEARS MAKING GOOD INSTRUMENTS"

Jewell Instruments are known for their precision manufacture and accurate performance. We carry the complete line and can give you immediate delivery. Dealers Service your sets with Jewell Instruments.

#### TABLE VOLTMETERS

Useful for laboratory work and general testing,

NO. 116 B-ELIMINATOR TESTER
A high resistance voltaneter that shows the true
voltage which cannot be obtained from an ordinary
voltage.



No.	Volts	List	Each
94672	0 • 50 - 250	\$25.00	\$18.75
98304	0 - 250 - 500	32.00	24.00

NO. 139 B-ELIMINATOR TESTER
For use by the individual in checking and adjusting B Eliminator voltage.
No. 96413 0-300 Volts ...List \$12.00 Each \$7.80
No. 97168 0-500 Volts ...List 16.50 Each 10.73

Moderate in price but very effective for making the various alternating current tests. The range is ample to check all voltage likely to be encountered.

No. 98305 0-3-15-150 A C Volts......List \$15.00 Each \$11.25

#### PANEL METERS

PATTERN NO. 135-D. C. METERS The well known 2" panel mounting D C in-

No.	Rating	List	Each
4836	0-5 Volts	\$7.00	\$4.55
4837	0-8 Volts	7.00	4.55
6411	0-150 Volts	7.50	4.87
6412	0-7.5-150	9.00	5.85



PATTERN NO. 54—D. C. METERS
These instruments are 3%" in diameter. Made in a variety of ranges. Very popular with amateur and short wave work.

No.	Rating	List	Each
98306	0-8 Volts	}\$7.50	\$5.63
98307	0-10 Volts	7	\$0.00
98308	0-150 Volts	9.50	7.13
98309	0-50 Milliampere	1	
98310	0-100 Milliamperes		
98311	0-500 Milliampere	7.50	5.63
98312	0-1000 Milliamperes		
98313	50-0-50 Galvanometer	9.00	6.75



#### PATTERN NO. 190 A. C. METERS

A 2" flush type A C meter for checking alternating current filament control and line voltage.

98314	0-3 A C Volts )	Eacil
98315	0-5 A C Volts }\$7.50	\$5.63
98316 98317	0-8 A C Volts   0-150 A C Volts 9.00	6.75

#### PATTERN NO. 74-A. C. METERS

	flush type A C		Ideal for	test panel		
No.	Rating				List	Each
98329	0-15 A. C.	Volts			\$ 7.50	\$ 5.63
98318	0-150 A. C.	Volts			9.50	7.13
98319	0-500 A. V.	Volts			12.00	9.00
98320	0-3-15-150 A	. C. Vo	lts		13.50	10.13

#### WESTON COUNTER TUBE CHECKER



tube checker for checking tubes at the time of sale. tubes at the time of sale.
Operates directly from the
regular A. C. 60 cycle
lighting current. It will
cheek all tube A. C. or
D. C. including rectifier
tubes. Very shimple to operate. An item every dealer
should own.

new distinctive counter

No. 98591 N List \$67.50 Model 533 Each ..

#### 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	150-8-4 Volts	16.50	12.38



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 flexible cord. Cleanest and most convenient way of testing "A" Batteries.
Nickel finish Nickel finish. List \$1.00



READRITE POCKET METERS Exceedingly efficient pocket instruments with silvered metal dials and nickeled cases. Voltmeters are of a very high resistance and give accurate readings without draining "B" Bat-

teries.	Absolutely guaranteed.		
No.	Range	List	Each
94601	Voltmeter 0-50	\$1.00	\$0.55
94602	Ammeter 0-40	1.00	.42
94603	Combination Volt and	2.00	1
	Ammeter Both	1.50	.75



READRITE PANEL TYPE
METERS

Voltmeters bave high compensated resistance—
from 17 to 100 ohms per volt, yet are priced low.
Very accurately built and can be kept in circuit continuously. Narrow flange—Rear clampon gavie.

Range Rear Rear

	style.	Range	Each
96240	Voltmeter 310	0-10 Volt	\$0.55
96241	Voltmeter 339		.68
96242	Voltmeter 340	0-8-0-100 Volt	.95
96243	Voltmeter 342	0-150 Volt	.81
96244	Milliameter 311	0-10 M. A.	.95
96245	Milliameter 350	0-50 M. A.	.55
96246	Milliameter 390	0-100 M. A.	.55
96865	Milliameter 399	0-300 M. A.	
96866	Milliameter 304	0-400 M. A.	.55
96867	AC Panel Voltmeter 251	0-15 Volts AC	1.55
96868	AC Danel Voltmeter 250		1.80
	AC Panel Voltmeter 352	0-10 Volts AC	1.80
96869	AC Panel Voltmeter 353	3 0-6 Volts AC	1.80
	4 TO TO THE		

#### READRITE No. TUBE AND SET **ANALYZER**

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 36" cord containing four and five prong adapters enables you to plug into any type of set. Contains a power rheostat and the following meters:



0-10 Milliameter, 0-6 A C Volts, 0-8 D C Volts 0-100 Milliameter, 0-15 A C Volts, 0-50 D C Volts 0-300 Milliameter, 0-150 A C Line Voltmeter, 0-Elim. Tester 0-500 B

No. 97318

List, \$35.00; Each, \$21.00 Less 2% or.....



#### READRITE PORTABLE Voltmeter, for "B" **Elminator Testing**

This high resistance voltmeter is used to check voltage of "B" Eliminator and "B" battery cir-cuits. Specially built for this work. Accurately shows voltages for detector, ampl. and power tubes. Supplied with 2 cords 30" long, one black and one red to show

No.	Volts				p	o.	la	r	it;	у.	T	lp	S	a	r	c	h	e	2.1	v i		lated. Each
04696 06870	0-300																				\$5.0 6.0	\$3.00
6871	0-150	A	١.								 										5.6	3.00

#### BEEDE TEST KIT



Complete with three socket test meters, line tester, and adapter for converting 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. Contains the collegions. the following meters:

1 No. 60 0-7½ volts 1 No. 50 0-300 volts 1 No. 55 0-50 volts 1 No. 75 0-150 line tester

No. 96832 List \$15.00. \$9.00 less 2% or \$6

#### READRITE NO. 210 TUBE CHECKER



Low cost of this efficient tube checker enables every dealer and set owner to make tests every dealer and set owner to make tests rapidly, match tubes and weed out weak tubes. Voltmeter and 10 milliamp. scale. Switch for neg. or pos. filament. List \$7.50 Each \$4.50 List 1.00 Each .60 List 60 Each .60

No. 94697 No. 94698 No. 94699 List. Each

READRITE No. 12 TUBE TESTER
For testing A C or D C tubes. Contains 0-8 high resistance voltmeter and double range 0-20-100 milliameter with switch, complete with four and five prong adapters. Just the thing for the dealer shelf and is connected to betteries

batteries. No. 97391 T 97392

READRITE No. 215 TUBE TESTER
For testing A C or D C tubes. Contains 0-8 high resistance voltmeter with rheostat controlling the A supply, double range 0-20-100 milliameter adapters. Tester can be plugged directly into the A C or D C set. Ideal for rice man. 0 Tube Tester ..... List \$12.50 Each \$7.50 No. 97390

READRITE SOCKET TESTERS



\$1.80 1.80 1.50 1.80

#### READRITE A C VOLTAGE REGULATOR



Needed on every set using A C tubes to protect them against short life when subjected to excessive line voltage. Equipped with A C voltmeter and glant rheostat. Very simple to use and is an investment you can't afford to be without. Complete with cord and lug.

No. 97465 List \$6.50 Each \$3.90



HOYT A. C. POCKET
VOLTMETER

A compact, sensitive Voltmeter for
measuring voltage on A. C. sets.
The three scales cover all filament
voltages applied to the popular
checking line voltage as well, a
checking line voltage as well, a
resistance of more than 20 ohms per
volt insures reliability supplied with
special leads and packed in a durable leather carrying case.
\$1200 No. 97366 List \$16.00 Each \$1200

#### **HOYT NO. 550 LINE VOLTAGE TESTER**



Hoyt No. 559 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 \$3.76. Each.....

#### HOYT ROTARY METER



ranges. Dimensions 4½x3¼x2¾".

No. 98448 Each \$18.00 \$ Less 2% or

#### BELDENAMEL AERIAL WIRE



Beldena mel Wire is the accepted standard. Each indiis enameled separately and is im-pervious to to weather, fumes or smoke. The smoke. The

a permanent coating which prevents cor-roding. Packed in individual cartons.

No.		Size	Length	List	Elach
97481	Stranded	7x22	75 Ft.	10.85	\$0.51
94500	Stranded	7122	100 I't.	1.15	.69
94501	Stranded	7×22	1000 Ft.	11.00	6.60
94502	Braided	16x28	100 Ft.	1.10	.66
94503	Solid	12	100 Ft.	1.15	.81
94504	Solid	11	100 Ft.	.90	.54

Stranded 7.00 4 20 07104 Strandad 1000 Ft.

#### INDOOR AERIAL AND LOOP WIRE

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

No.		Length	List	Each
94512	Cotton	125 Ft.	\$1.00	\$0.60
97483	Cotton	1000 Ft.	7.50	4.50
94513	Silk	125 Ft.	1.75	1.05
97484	Silk	1000 Ft.	12.00	7.80

#### BELDEN LEAD-IN AND GROUND WIRE

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

No. 94514	Size Solid 16	Length 50 Ft.	List	Each \$0.42
97485	Solid 16	250 Ft.	3.25	1.95
94516	Stranded 7x22	50 Ft.	1.00	.60
97486	Stranded 7x22	250 Ft.	4.75	2.85



#### BELDEN BATTERY CABLE

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

100 100 100	Pt.	\$8.00 11.00 15.00	\$4.80 6.60 9.00
200	2 00	20.00	0.00





Is rubber in-sulated exten-sion cord which lies flat under the rug. Makes ideal connec-tion for floor lamps, radio lamps, radio power units, electric phonographs, heaters, etc. 4 ft. cord

	Length 15 Ft. 12 Ft. 9 Ft.	List \$3.00 2.75 2.50	Each \$2.00 1.84 1.68
,	9 Pt.	2.50	1.6

#### 0 DE

#### Colorubber AC



This handy kit contains Colorubher Insulated hooking Wire as 12 km & 1 18 hookup whe

No. 96790 List \$1.75 Hach \$1.05

#### Belden Indoor Aerial Kit



This handy kit contains a 70 ft. spool of Belden Indoor Aerial Wire, a 25 ft. coil of Belden Colorubber Ground Wire, and a ground clamp. Can be set up in 5 min-

No. 96791 List \$1.35 Each \$.81

#### Belden Aerial Leadin Strip



#### RELDEN BATTERY CORD



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

No.		List	Each
94524	5-Conductor	\$0.45	80.27
96106	7-Conductor	.60	.36
97488	9-Conductor	.90	.54



Shielded Colorubber Flexible; Tinned Hookup Wire

A special shield d hook-up wire for use on shielded grid tubes.
Made up of
Belden colorubber Hookup wire writing design to the design and carton.

No. 97495.....List \$3.50 Each \$2.10 No. 97194.....List \$2.75

#### RELDEN SPEAKER EXTENSION CORD



The new extension cords now come in 10, 20 and 40 ft. lengths. Complete with a handy bakelite connector. Colorubber insulation prevents leak-

age.			
No.	Length	List	Each
97489	10 ft.	\$0.80	\$0.48
97490	20 ft.	1.00	.60
97491	40 ft.	1.85	1.11
96791	Connector	only .35	.21
			-

#### **Belden Replacement Cord**

oft. speaker and headset cords. Conductors are 14x34 tinned stranded copper. Attractive individual cartons. HEAD SET CORDS

No Pin Tips .....\$0.60 Spade and Pin.....60 SPEAKER CORDS 96110 .36

Pin Tips ......\$0.35 Spade and Pin.... .35 \$0.21 97492 97493

#### BELDEN AERIAL KITS



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

No. 96111 96113

#### Belden Flat Speaker Cord



A flat 12 foot rubber insul-ated loud speaker exten-sion 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 o f tools.

Each \$1.65

CATALOGUE SHEETS OF THE COMPLETE BELDEN LINE SENT UPON REQUEST 97078 9 Ft. 2.50 1.68 LINE SENT UPUN REQUEST

1.65

97313

97314

650

#### SUPER BALL Antenna



high frequency circuits.

New Low Prices No. 92564 Super Ball Alone. List \$7.50. Each \$4.50 Less 2% or

41

#### BETTERBILT Globe Antenna



No. 97414 Each \$2.80 Less 2% or

74 Net

BASE and PIPE for Super Ball and Betterbilt

Globe Antenna.
No.
92565 Base an
92558 ½" Pipe Each \$0.30 Base and guy wire collar...\$0.50 %" Pipe, 10 Foot....... 1.00

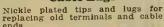
#### BIRNBACH A-C FLEXIBLE HOOK-UP WIRE

Made up of fine strands of copper twisted to-gether and covered with colored rubber insula-tion. Will stand high voltage.

97416 25 ft. Coil Red Wire. List \$0.8048c ...........

97415 25 ft. Coll Black Wire. List \$0.80 .....48c

#### Birnbach Cord Tips and Cable Lugs



#### 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 cartons.

2.75

No.			Length	List	Bach
96151	With Connecte	r	10 Ft.	\$0.75	\$0.45
96152	With Connecto	~~	20 Ft.	1.00	.60
	With Connecte	JI	30 Ft	1.40	.84
96153	With Connecti	M	50 Ft	2.20	1.32
96154	With Connecte	or	00 10.	4.20	2.52
°5155	With Connecte	or	100 Ft.		.18
96156	Connector only	V			
97306	Without Conn	ector	20 Ft.	.65	.39
77000				THE COLOR	2
	BIRNBACH S	ILK COKD	IN BEAULI	FUL COLOR	he color
Now y	ou can select a	BIRNBACH	CORD to ha	rmonize with t	TITTE
scheme	e of your home.	Made in OL.	D GOLD, M	AROON and v	VHIIE.
A colo	r to satisfy ever	v possible tas	tc.		
No.	Type Leng	th Color S	ilk	List	Each
97307	620 20 F		,		
97308	621 20 F		1d }	\$1.50	\$0.90
97309	622 20 H				
91309			. (		
97310	630 30 I		(	1.00	1.14
97311	631 30 H	rt. Old Go	old }	1.90	1.14
97312	632 30 H	et. Maroo	n )		

#### NEW BIRNBACH DYNAMIC CORD

White

Maroon

Old Gold

50 Ft. 50 Ft. 50 Ft.

Now you can demonstrate the new Majestic, Crosly, or any other 100 Voit D C Dynamic speaker having four pin tips at the end of the cord with Birnbach's New Dynamic Extension cord. Comes complete with cord and two connectors.

No. 97436 97437 97438	Typ 710 711 712	20 30 2 50	ft. ft. ft.	\$2.00 2.80 4.40		\$1.20 1.68 2.64
No.	Type		ENT CORDS		List	Each \$0.36

No. 97432 97433 97434 97435	ft. Brown Silk for Radiola Speakers	.74 0
No	Loud Speaker Cord, 5 Ft. Long Type List	Each

96157	Pin Tips, both ends	21c
96157	Spade and Pin Tips	21c
97316	Pin and Eye Tips35c	21c
7/310	Headset Cords, 5 Ft. Long	
96159	Pin Tips, both ends	30c
96160	Spade and Pin Tips50c	30c
90100	Pin and Eye Tips	30c
9/31/	Fin and Eye Tips	



#### BIRNBACH ACID-PROOF BATTERY CABLE COLORED RUBBER

Made of flexible standed conductors. Sold-ered lug terminals. Each conductor sep-arate solid color. Packed individual car-tons. 54 inch and 10 feet long. For use in connecting A, B and C batteries or ellminator to set.

	No.	Length	Each	No.	Length	Each
~ 1 .	96161	54 In.	30c	96167	10 Ft.	\$0.75
Conductor		54 In.	36c	96168	10 Ft.	.93
Conductor	96162		42c	96169	10 Ft.	1.11
Conductor	96163	54 In.		96170	10 Ft.	1.29
Conductor	96164	54 In.	51c			
Conductor	96165	54 In.	60c	96171	10 Ft.	1.47
Conductor	96166	54 In.	69c	96172	10 Ft.	1.65



10

#### **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. A Heavy Duty cable.

6 Conductor 9 7 Conductor 9 8 Conductor 9 9 Conductor 9	No. Length 7439 54 in. 7440 54 in. 7441 64 in. 7442 54 in. 7443 54 in. 7443 54 in.	Each \$0.54 .63 .72 .84 .93 1.02	No. Length 97445 10 ft 97446 10 ft. 97447 10 ft. 97448 10 ft. 97449 10 ft. 97419 10 ft.	\$0.96 1.08 1.35 1.53 1.71
---	--	--	---	--

#### RADIO BATTERY CONNECTOR

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

BIRNBACH 96174 6 In.	3c 4c 5c	60c 75c 93c
----------------------	----------------	-------------------

# Raytheon ong the rectifying tube



tors of RAY-THEON Products we can give you first-class service and prompt delivery. Our livery. Our stocks permit immediate ship ment. NO-TICE NEW REDUCED PRICE. Highest Highest grade quality of prov-

en merit.					
List	Each				
\$4.50	\$2.70	ē			
7.50	4.50				
4.50	2.70				

#### 🖹 BERTANDER DE STANDER DE STANDER DE L'ARREST DE L'AR CARTER "TU-WAY" PLUG

Amp. Cartridge ......

.........125 Mils.

Output



Takes two phone sets at one time. Fits all jacks. Well made



#### **TOBE 4 PURPOSE** LIGHT SOCKET AERIAL

Saves cost and bother of aerial, ground or lightning arrester, and does not interfere with the ordinary use of the outlet. Prevents excessive pickup of static and greatly increases the selectivity of your set. Plugs into the baseboard or wall flush receptacle. Fully guaranteed for two years. No

97499 List, \$2.00. Each, \$1.20 Less 2 % or ....

#### DUBILIER LIGHT SOCKET AERIAL



Does away with aerials and improves the reception of any set. Moulded bakelite, well constructed. Plugs into any lighting current. Sells consistently well and carries the usual Dubilier Guarantee.

No. 91640 List, \$1.50. Each Less 2% or Each, \$0.90

#### **MUTER AERIAL PLUG**

Replaces outside aerial, giving you noiseless and improved reception by screwing it into light socket. Made of highly polished black moulded bakelite.

93424 List, 75c. Each.

#### BINDING POST STRIPS



We have a large stock of drilled and engraved binding post strips that we can supply with binding posts and soldering lugs or without binding

No. 91398 Marked Strips Only... With Binding Posts and Soldering Lugs 94599

Each 10 Lots 61/2c

19c



No.

92441

95098

95099

BH

BA

21/2

#### **CARTER No. 2** CARTER DE FLAT PLUG

t and neatest plug Cord tips held by Molded Bakelite. Smallest serews.

List 50c Each 30c



CARTER 1

#### FLAT PLUG

Cords hang from bottom of handle instead of proinstead of pro-jecting. Uses no triggers, push buttons; cord tips completely

#### HACO PLUG



An exceedingly well built automatic plug that holds tips firm\_ ly.

No. 93099

10 Lots. 12c

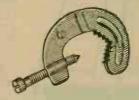


#### MUTER PLUG (Shock Proof)

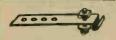
A black moulded plug,  $2^3\%$  inches long, with highly nickeled brass

| tips completely concealed. | List, 40c | Parts. | No. 97243 | 25 Lots \$0.08. | Parts. | No. 92470 | List, \$0.75. Each...\$0.45 | No. 93440—Each | 24c | Each...\$0.45 | Parts. | Parts.

#### New Morris Ground Clamp



Inexpensive; grips tight, cutting into pipe, giving sure ground. Made of steel, fully guaranteed.



#### NEW CODE GROUND CLAMP

Made of heavy copper. fully approved. Two sizes.

No. 90246

3/8 in. to 1 in. Each, 4C Per 100, \$3.20

No. 90247

34 in. to 2 in. Each, 6CPer 100, \$4.95



#### EKKO GROUND CLAMP

Makes perfect ground connection on any pipe up to 11/2".

No. 92599 List, \$0.25 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 .....39c 10 Lots.

#### HEADSET AND EXTENSION CORDS



High grade black mercerized cotton cords with soldered terminals and tinsel and tips. No. Type Length Each Head Set 5 ft. 12c

92536 92537 Loud Speaker 5 ft. 15c 92538 Extension 20 ft. 23c 92543 Extension 50 ft 96951 Connector Only 90 

#### HACO GLASS INSULATORS



MUTER

Haco insulators insure minimum energy losses. Sturdy, well-built 31/2 inches long. Packed two in a carton. All guaranteed first.

10 Lots 10c

APPROVED LIGHTNING

ARRESTER For Outdoor and Indoor use. 314' long. Airgap type is positive in action. Brown. gap type is positive in action.

List \$0.35 \$0.21

**GUARDIAN APPROVED** LIGHTNING ARRESTER

Waterproof barrel construction with cleanable carbon brushes. Brown porcelain shell 4½" long. The ultimate in quality. Brown porcelain shell 41/2" long. No. 91784... List, \$0.75



ARRESTER

Thoroughly sturdy and reliable for installation either doors. Approved by Underwriters.

List 70c Each, 42c Air gap type. Thorou 



#### JEWE L LIGHTNING ARRESTER

Glazed porcelain case for indoor or out-door use. Easily mounted. Approved by Underwriters.

No. 94673

List, \$0.75 Each, \$0.48



#### IMPROVED LIGHTNING ARRESTER

An indoor or outdoor arrester of the air-gap type. Sealed up in porcclain case. Easily installed and affords complete protection. Approved by underwriters. List price 50c. No. 91672Each, \$0.11 10 Lots, \$0.10

#### UNIVERSAL Battery and Radio Clips



Universal clips come in handy for testing, for service work and on installations. Be safe always on instantations, by sace 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.

No.	Jaw Spread	EL PLA	TED—PEE Each	WEE SIZE	100 Lost
91861	%°	114"	4 c	$3\frac{1}{2}c$	3 c
	NIC		ATED-LA		Pilo
91862	\$t"	214"	9½c	8 <sup>3</sup> / <sub>4</sub> c	7½c
91868	3%"	1]4"	5 C	4½C	$3\frac{1}{2}c$
91863	1'	21/2"	8 C	7 c	6 c
91860	135°	3 78"	TED—GIA 16 C FOR THE		12c

#### GLASS INSULATORS

insure perfect in-sulation and minsurface prevents popular seller. Eyelet on each end for fastening wire

31/2" GLASS INSULATOR 100 Lots \$4.65

10 Lots 5 c No. 91632

GLASS INSULATOR 100 Lots \$6.60 No. 96199 10 Lots 7 c Each 8c 



#### **BELDEN GLASS** INSULATORS

Sturdy glass insulator 3 ches long. Packed two in a carton.

97496 Per Pair. \$0.25 \$0.15



#### PORCELAIN INSULATORS

Porcelain is and always will be the ideal insulator. Our stock of these insulators islarge. Send us your orders. 500 Lots Per 100

Length \$2.10 91625 2½ 91630 3" \$0.023/4 \$0.021/3 \$2.35



#### PORCELAIN RADIO KNOBS

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

 
 Screw
 Each

 1½ in.
 \$0.03

 6 in.
 .04
 Small Small



#### 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 aerial. Each Per C

Per M \$10.75 7.65 .85

We can supply porcelain tubes and cleats at low prices. Write us for prices.

......



#### **DOUBLE THROW SWITCHES**

List

\$0.15

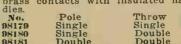


Black moulded bakelite base. Highly nickeled brass contacts with insulated handles. Length 21/2 in. Packed in individual boxes.

No.	Pole	Double	List	Each
93441	Single		\$0.60	\$0.36
93442	Double		.85	.48
93443	Triple		1.25	.75
93444	Five		2.00	1.20

#### MUTER BABY KNIFE THROW SWITCHES

Ideal for base or panel mounting. Black bakelite base. Highly nickeled brass contacts with insulated han-



Each \$0.09 .15 .24

#### AERIAL KITS



finest aerial Lit you can buy. tins everything necessary to put real aerial. ontains

No. 91796

R. C. Solid No Braid 50 Ft. Coil Muter V Lead-In No. 3435 15"

Muter Guardian Lightning Ar-No. 1784 rester 1 No. 7243

2 No. 6 20 No. 946

No. 1874 14

Morris Ground Clamp 3" Glass Insulators 2 No. 1632 3 No. 101 Porcelain Nail

STANDARD KIT

No. 1581 7-22 Stranded No. 27 —100 Ft. Coil

Screw Eyes Staples

Window

SPECIAL KIT

as our Regulation Kit, but t lightning Arrester. A splen-

No. 91797

#### REGULATION

A most popular kit that repre-sents an exceptional value. High-grade material throughout.

1 No. 1583 7 Stranded 100 Ft. Coil R. C. Solid No Braid 50 Ft. 1 No. 1874 14

1 No. 1870 14

Special Window Lead-In Improved Light-1 No. 1672 ning Arrester 212" l'orceiain 2 No. 1625

212" Porceiain In ulator Glazed Porcelain Nail Knobs Morris Ground 2 No. 101 1 No. 7243

No. 91795 Each 10 Lots

#### AERIAL WIRE

At Amazingly Low Prices

100 Foot Coils

Length Guarantee

Quantity buying of wire enables us to quote lowest prices to radio dealers on high class Acrial wire. Full 100 ft. coils. Immediate shipment. Guaranteed full 100 ft. coils, also full strands of wire as specified. WE DO NOT SUBSTITUTE.

BARE COPPER AERIAL WIRE

No.	Too Ft. Cons	Per Coil	10 Coil Lots
1582	7-24 Stranded	27c	25½c
1581	7-22 Stranded	39c	37c
1580	Solid No. 14	33c	31c
	CTD ANDED PAIABLES A	PERSONAL SEC	TD IS

STRANDED ENAMEL AERIAL V 10 Coil Lots No. 91575 35c 33c

91577 7-22 Stranded . . . . . . . 50c 48c

#### INSULATED LEAD-IN WIRE Rubber Covered Without Braid

50 FT. COILS 1,000 Ft. No. 91566 91567 Each 10 Lots 22c 21c Size 18 16 14 1-64 1-32 Stranded \$3.85 Stranded 5.15 91874 1 - 32Solid 30c 27c Genuine New Code No. 14 R. C. With Braid

Solid



#### 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. of cotton

Per 100 Pkg. Pkg. No. Lots 1/2-lb. single... 19c 90947 180 90948 1 lb. single... 37c 35c



91873

#### INSULATED STAPLES

Recognized as the finest staples on the market.

No. Blake No. Size Per 100 Per 1000
95330 1 ½ in. } 12c \$1.05 \$1.05



#### PORCELAIN BATTERY **SWITCH**

\$
----

#### RADIO MAST FIXTURES

Sold complete or in four separate parts, viz.: The pipe which is a 10-foot length of 12-inch standard size. The Mast Pipe Pulley Cap, which fits top of pipe and has four holes for guy wires. The Guy Wire Collar used in middle of pipe for fastening guy wires. The Universal Mast Head which is adjustable and fits either a gable or flat type roof. Makes a permanent and substantial aerial support. Heavy malleable iron.

	½ INCH MAST	Each
92579	Complete Outfit 12"	\$1.08
92570	Pulley Cap. Collar and Base	.58
92558	½" Pipe 10 ft	.60
92569	" Pulley Cap only	.21
92568	慢" Collar only	.09
92567	1/2" Base only	.30
100	S 191	



#### WINDOW LEAD-INS

Special Window Lead-In lead-in with Fahnestock type Insulated clips; 14" long and 1/2 wide.

MUTER FLEXIBLE

No. Each 10 Lots Per 100 91870 \$0.05 \$0.041/2 \$4,25

MUTER WINDOW
LEAD-INS
Flexible waterproof lead-in
12" in length. Fahnstock
clips on both ends.
No. 93434. List \$0.25.
Euch 14c. 10 Lots 13c

Muter impregnated lead-in 15" long. Made according to

M. A. standards. 93435 List \$0.20 Each 120 10 Lots 111/60 

#### BETTERBILT BALL



improving 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 \$2.20 or.....

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

# 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 revision of tables. 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 seling 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 ¼" five-ply Diamond Matched Oriental Walnut on Doors and drawer front. Installation was also for the lating was al stallation panels furnished for any standard makes of sets. Dimensions: 52½" high, 33" wide, 20" deep. Set Compartment dimensions: 28" long, 9¼" high, 14½" deep.

No. 96690 Cabinet Without Speaker. Each,

No. 96691 With Peerless Magnetic Speaker. Each \$79.20 Less 2% With Utah Magnetic Speaker. Each
With Farrand Magnetic Speaker. Each
With Farrand Dynamic Speaker. Each
89.50 Less 2%
89.50 Less 2% No. 96692 No. 96693 No. 96694

#### 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 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 1 million five-ply Diamond matched Satinwood Veneer. Top doors slide back. Finished with three coats of Lacquer rubbed. Dimensions, 33 wide, 91 high, 13 million have deep. Accommodate any standard make of set.

No. 96695 Cabinet Without Speaker.

No. 96696 With Peerless Magnetic Speaker.

\$55.20 Less 2%

No. 96697 With Utah Magnetic Speaker. 52.80 Less 2%

No. 96698 With Farrand Magnetic Speaker. 50.50 Less 2% No. 96699 With Farrand Dynamic Speaker.

65.50 Less 2%







Model 84
A delightful bit of furniture combining a holding table and speaker, so artistically corved as to suggest period. Madof selected American walnut, figured wanut and peach stripe mahogany. Finished with hand highlighting and shading. D mensions 30 in, high, 30 in wide, 15 in, deep. Equipped with Utah Motor (magnetic) Speaker.

No. 98081 List 32.50 Each \$19.50 Less 2% or.......



# 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%" wide, 37" high and 15" deep. Set compartment dimensions: 19" wide, 734" high, and 11%" deep. Equipped with Utah Power Motor (Magnetic) speaker.



#### 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 \$42 00 List \$70.00 Each



MODEL 27

#### 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: 32½" wide, 40" high, 16½" deep. Size of set compartment: 29¾" wide, 9¾" high, 13¼" deep. Equipped with Utah power motor (Magnetic) speaker.

No. 98025 List \$64.00 Each



#### 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.

List \$75.00. Each \$4500 Less 20



## RAMCO Model 24

The model shown here is a very beautiful, well constructed piece of furniture, which has no equal at the price we are listing. Handsomely carved throughout, it is a console worthy of the highest type receiver and fit to grace the beauty of the best furnished room. It is manufactured by Ramco, well known as designers and makers of quality radio furniture, who take unusual pride in placing this console before the public.



Open View

The Model 24 is made up of selected American walnut, trimmed with burl and striped walnut for effective high-lighting and embellished in Carpathian elm and burl mahogany. The doors are of the sliding type which are a distinct advantage where space is at a premium. The console is equipped with either a Utah Magnetic or dynamic speaker—a brand of speaker that brings out the full quality of a set. Outside dimensions, 25% wide, 16% deep, 40% high. Set Compartment dimensions, 23% wide, 125% deep, 9% high.

No. 98022

With Utah Magnetic Speaker.

List \$59,50. Each \$35.70. Less 2% or.....

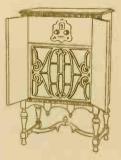
No. 98067 With Utah Dynamic Speaker.

List \$89.50. Each \$53.70. Less 2% ot....



#### RAMCO Model 44

A glance at the gracefully carved lines and curves and the harmonious combine of selected woods and finishes, of this console, immediately suggests French nobility in the early eighteenth century. Just picture this consols in the living room of your home. Imagine what an atmosphere of refinement and beauty it would give. The desire for the home beautiful, will make this a gr at seller this year. The woods used in the Model 44 are American walnut with burl and satinwood trimmings, embellished in Queensland figured walnut. Comes equipped with either a Utah magnetic or dynamic speaker.



Open View

Outside dimensions, 25% wide, 45% high, 1644% deep, compartment dimensions, 23% wide, 9% high, 134% deep.

With Utah Magnetic Speaker, List \$69.00. Each \$41.40. Less 2% or.

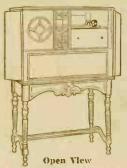
With Utah Dynamic Speaker. List \$99.00. Each \$59.40. Less 2% or.

No. 98068



#### The "Seville" **Combination Radio** and Phonograph Console

Here is a sterling value in a console with an electric phenograph motor and pi k up all ready to play, at a price that one would have to may for an ordinarily contaction enoite. As a piece of furniture, it rams hi h by virtue of its stordy construction and artistle de in, lit dimitted beauty surgests a Spanich random of another century. Trul, a bit of notistry that would make a splendid addition to the beauty of any living room. The door are of matched burth walnut with imported overlays, of setting beautiful brass ornaments. The has are tastefully carved and finished end are braced by a matched stretcher. Fundshed with either a Utah Dynamic or Utah Masnette Speaker. A Johnson Induction electric motor and pick up, off and on switch, and two beautifully bound record albums. Measures 50"x30½ "x16½" deep.



This shows the Seville open, ready for action. An attractive and symmetrical layout that is a pleasure for the cyc to behold. Set compartments measures 28½"x9"x11" deep.

No. 98031 With Utah Dynamic Speaker. List \$155.00. Each.....

## "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 Dynamle 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 burl walnut and maple overlays. Beautifully carved embellishments blend harmoniously with background. Measures 50"x27"x16\frac{1}{2}" deep.

No. 98032 With Utah Magnetic Speaker. List \$94.00.

No. 98033 With Utah Dynamic Speaker. List \$118.00.

Each.....

Less 2%



Revealing the Lyre shaned spea or mile, in an otherwise, plain panel. Speal or chamber is 24" long, 102," hit had 1." deep. Set compartment is 24" long, 193," hich and 13" deep.





## "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 gunwood, artistically finished and decorated. The front panel is made of a newly discovered African wood, Avoidire, which adds spark to the console. The panel, except for the appropriately carved speaker grille, is plain and has a highly decorative border. Furnish d with either a magnite, air column, or Temple Dynamic Speaker, each one with a "rep" for faithful reproduction. Outside dimensions are 441," high, 44" wide, and 15" deep. Speaker chamber is 1912,"x11"x10", "deep. Set compartment measures 1912,"x10", "x10", "x10".

No. 98034 With Magnetic Speaker, No. 98025 With Air Column Speaker, List \$55,00. List \$55,00, Each \$32.50.

DECEMBER

## 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 4334" high, and 25%" wide and 1616" deep.



An open view of the console revealing the beautiful speaker grille and decorations of white made, sharply set off by the black lacquered panel. The set compartment dimensions are, 9½" high, 20" wide, and 13¼"

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 \$66.33. Less 2% or.....

\$63 60 Net



# CASWELL RUNYON

Consollette No. 15

Here is a genuine Caswell Runyon Console that eliminates expensiveness as an object to giving the radio receiver a proper housing chamber. Beautifully designed and constructed of the finest materials obtainable, by the best in the business, it is hardly believable that it is sold for the price we are listing it. There is a great opportunity to reap a huge profit by pushing this console, at this price. Get busy now, by calling on prospects you sold receivers without a console.

Made of the finest four way butt walnut, finished in burl and constructed proportionately, it is a roomy, balanced piece of furniture that will add beauty to any room. Equipped with either a U ah Magnetic or Dynamic speaker, so you can be certain that you will enjoy the finest reproduction possible. Measures 4." high by 25" wide by 15" deep. Will accommodate any set with up to an 812"x21" panel.

With Utah Magnetic Speaker, List \$50,00. Each \$27.50. Less 2% or. No. 98047

With Utah Dynamic Speaker. List \$75.00. Each \$39.50. Less 2% or..... No. 98048

## 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 burl walnut, with a satin-wood overlay on the doors. There is a beautifully carved horder 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: 55" high, 35" wide, 18%" deep Set Compartment

high, 31" wide, 13 " deep

Mounting Panel: 11" high, 12" wide

Speaker Compartment:
14" high, 31" wide,
Aston Console with Utah Magnetic
Speaker. List \$140.00.
Each, \$84.00.
Less 2%, or................................\$8232
Net

Aston Console with Utah Dynamic Speaker, List, \$160.00.

Each, \$96.00. Less 29, or.



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 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".

Furniture of the Highest Type

#### THE SEVILLE

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 bruckets 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°.

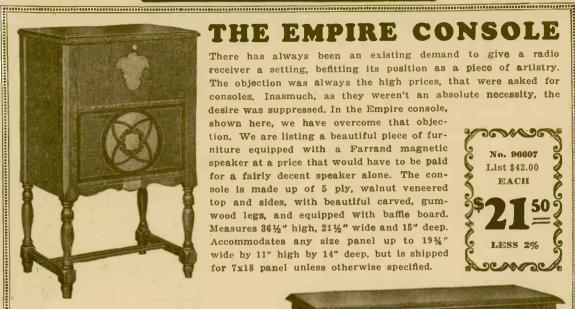
No. 96601 List \$84.50 Each \$50.70. Less 2% or.....



No. 96600

Each \$27.00. Less 2% or .....

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



#### EMPIRE CONSO

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, gumwood legs, and equipped with baffle board. Measures 36 1/2" high, 21 1/2" wide and 15" deep. Accommodates any size panel up to 194" wide by 11" high by 14" deep, but is shipped for 7x18 panel unless otherwise specified.



## IE REGAL TABL

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 tone type, and the period to the course. the tonal value of the Regal.

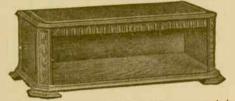
This appealing bit of radio furniture is made up of 5 ply top and sides, finished in walnut. The legs are of selected gumwood, very artistically carved and finished. The front panel, sets off an attractive silk grille, and also acts as a wonderful baffle for the Temple Dynamic speaker, which can also be furnished with this table, Measures 30" high, 30½" wide, and 14" deep.

No. 98570 With Power Magnetic Speaker. Each \$10.75.

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



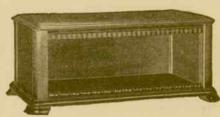
#### FRITTS SUPER CABINETS



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 cabine	ets are 12" deep	from panel to	back.	
No.	Size	Depth List	Less 40%-1	0% Each
94950	7"x18"	12"	\$21.50	\$11.61
94951	7"x21"	12"	22.00	11.88
94952	7°x24"	12"	22.50	12.15
94953	7"x26"	12"	23,00	12.42
94954	7"x28"	12"	24.00	12.96
94955	7"x30"	12"	25,50	13.77

#### WAINRITE CABINETS



Wainrite cabinets are well made employing the very best of material. Made of poplar finished with walwith wal-nut. Has nut. Has full piano hinge and lid stay. along top

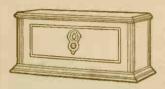
and sides of panel. 7x14 size popular for short wave kits. Quality cabinets at popular prices. Depth 12 inches.

trient done			
No.	Size	List	Each
98012	7x14	\$10.00	\$5.80
98013	7x18	12.00	6.05
98014	7x21	13.00	6.38
98015	7×24	14.00	6.75
98016	7x26	15.00	7.50
98017	7x28	16.00	7.88
98018	7x30	17.00	8.63

# FEDERAL ORTHO-SONIC\*

#### BATTERY OPERATED SETS

America's finest radio is now offered you in the BATTERY OPERATED type at a new attractive price. Each set in the Federal line faithfully reflects the most worthy characteristics of period design. Console tables, with space for all batteries or current supply equipment are furnished to match table models. The patented orthosonic circuit of 5, 6 or 7 tube design assures the utmost in selectivity and maximum receiving range.



Each.....

#### TABLE MODEL D-10

A 5-tube set with balanced circuit and centralized control. Very selective. Contained in genuine manogany cabinet, which is finished in rich brown. Uses 5-CX301A cunningham tubes. If power tube is desired, it requires 4-CX301A and 1-CX371A. The

cabinet is 11½" high, 12½" deep and 24" long. An outstanding achievement. Priced for quick disposal. No. 98050 175.00 Value

Less 2%



A six tube set in beautiful ma hogony cabinet with wainut inlay.

Single dial control, filuminated

Federal's exclusive patented balanced T. R. F. clemit. Un qualled selectivity. Full ortho-sonic to c. For battery or climinator operation only.

Depth 134 ". Height 113 ".

No. 98052 Cabinet with set, \$95.00, Less 50% or ...\$47.50

No. 98053 Model 17 5 Table, \$10.00, Less 50% or ...\$20.00



#### MODEL F-40

This cabinet is made of genuine walnut with vermillion inlay and hand carving. Single dial control, illuminated. Unequalled selectivity with unusual sensitivity to distant stations. All-metal chassis with mechanism totally shi ided. Operates from loop in door. F deral's exclusive patented, balanced tuned radio frequency circuit, Built-in speaker, Requires 6-CX 161A and 1-CX 171A Cunningham tubes. Height 524", Width 346.", Depth 1914". For battery or eliminator operation only

No. 98051 List \$295.00 Less 50% or ..... Less 2%



or.....\$25.00



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.

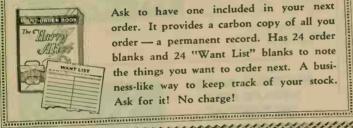
If You Want Your Orders Shipped by Express or Parcel Post, We Allow You What THE FREIGHT WOULD BE

WE PAY ALL THE FREIGHT in all states except the few distant ones listed below. WE PAY HALF FREIGHT in the following states, on order 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.

New Mexico, Colorado, Wyoming, Montana, Arizona, Utah, Idaho, Oregon, California, Florida, Washington, Maryland and all New England States.

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.

# 



Ask to have one included in your next order. It provides a carbon copy of all you order - a permanent record. Has 24 order blanks and 24 "Want List" blanks to note the things you want to order next. A business-like way to keep track of your stock. Ask for it! No charge!



## EQUIP

	324	£	
			Pal Portable Phonographs
	Aerial Equipment—	92	
	Aerial Equipment—	13.5	Dick-lins
	Lightning Arrestors	-2.1	Phonograph Motors-
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"Service doesn't falter, when it comes from Harry Alter"

Consoles Pages 25 to 32

33

# runelli-for PA 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.

No. 96454 45 Volt. Each \$1.52 Less 2% or \$1.49 Net Size 774"x7"x3" 5 Lots Each...

NET



#### "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. the factory.

No. 94650 Each 27c Each 27c Lots .....Each 26c

#### "C" BATTERY



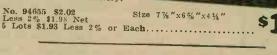
A great little "C" battery that is sure to keep its strength for a great length of time. Constructed of materials that produce a greater output of power, and thoroughly tested against any defect. They will undoubtedly move fast this season.

No. 94656 4 1/2 Volt. Each 25c.

Lots.....Each 23c

#### EXTRA HEAVY DUTY "B" BATTERY

This super-giant size battery has more than twice the capacity of any or-dinary 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.



RADIO BEATTERY

EXTRA HEAVY DUTY

#### **BRUNELLI-JONES** SQUARE-CELL "B" BATTERY

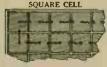
In this "B" Battery Brunelli-Jones employ the latest construction idea in having the "B" battery contain square cells in place of cylindrical cells. This utilizes (see diagram) all available space, allowing room for more current generating materials per cubic inch than in any other B battery ever produced.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

No. 94694 Size 81, "x71 "x41/" Each \$2.90

Less 2% or.....









#### 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 first R. F. 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.

No. Type 96830 For D. C. Sets 98379 For A. C. Sets

List \$22.50. Each \$13.50 Less 2% or.....

### r Star & Flashlights Radio Batteries ON CEULS Supremei

Bright Star Batteries are without a doubt the finest batteries made. Full of power and active material—high in voltage, giving long, dependable service. Our stock is always fresh and complete for immediate shipment. Always in demand—more Proat.

I am urging you to push Bright Star Batteries because I KNOW them to be superfine in quality, besides giving you a bigger profit. Before I decided to sell Bright Star Batteries exclusively. I made sure the product was right. You can't buy a better pattery anywhere, That's why I am safe in urging you to carry them.

Harry alter

#### BRIGHT STAR HEAVY DUTY "B"



We recommend Heavy Duty Batter ics secause 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 less per operating hour thansmaller "B" and ordinary Batterials hour contains and ordinary and and or batteries. ordinary

recommend

STD. PKG.

40 Each

Pkg. Type Volts 6 Vertical 45



#### **BRIGHT STAR** 45 VOLT "B"

Built on the hand-made Bag Type principle, using the best of chemicals and material, with constant eare and supervision. Tapped at 221/2 volts, and provided with three brass serew terminals.

No. 0-95 0-05 0-03		Type Vertical Horizontal Portable	45	List\$2.75 2.75 2.75	Each \$1.94 1.94 1.72	Std. Pkg. \$1.80 1.80 1.60
	-					

#### NEW BRIGHT STAR AMPLIPOWER "B" BATTERY



For the first time a definite guarantee of service capacity. Guaranteed to give satisfactory service for one year from date of purchase. A positive assurance of more than twice the service service before obtained from any Heavy Duty B Battery. Packed there to a standard package. Weight 62 Lbs.

No. 96469 List \$6.00. Each, \$4.10. Std. Pkg.

#### BRIGHT STAR 22½ VOLT "B"

Bright Star 221/2-volt batteries are made in several different sizes, suitable for both standard and portable sets. Small size may also be used as a 221/2-volt C battery.

No. 15-90 15-95	Std. Pkg. 10 10	Vertical Horizontal	Volts 22½ 22½	. \$2.00 . 2.00	Each \$1.12 1.12	Std. Pkg. \$1.04 1.04
15-50 15-03	5 5	TT	SMALL SIZE 22½ 22½	\$1.50	\$0.85 1.01	\$0.71 .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 contruction employed is greatly superior to the construction ordinarily used. Longer life and greater recuperative power.

No. 96468 Case Lots List \$0.50 of 50 Each \$0.31

#### BRIGHT STAR "C"

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

No. List Each Pkg. 71-71....\$0.60 \$0.34 \$0.31 Std. Pkg. of 5-4½ Volts 15-03..... 1.75 1.01 .9 Std. Pkg. of 5—22½ Volts

PORTABLE SIZE 41/2 VOLT

#### REESONATOR



The Reesonator is an inatrument designed for the
purpose of basis and for the
purpose of basis and the
set at 55% of the receivaare not balanced or in
resonance with the aerial
on all broadcast wave
lengths. The Reesonator
makes it nossible to put
your set and antenna in
evact resonance with each
other at all wavelengths,
thereby giving you maximum sensitivity and volume. Takes but a minute
to install. A trial will
convince you. convince you.

No. 97148 List \$4.75. Each, \$2.85. Less 2% discount or.....

'+ falter when it comes from Harry Alter"

## PAL PORTABLE PHONOGRAPHS



The finest line of portables ever made. Easy to take anywhere—to boating, camping, etc. Fine for the home. Real tone quality o modern type. Superior in any way. Incorporate features usually found on full-built cabinet phonographs.

#### PAL SUPREME

The latest improved model that gives you the genuine orthophonic type reproduction—plenty 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. 125 x164 x7% inches. Weight 18 lbs, Furnished in BLUE, BLACK or BROWN.

No. 91976. List \$30.00. Each \$17.30.

\$16.95 Net ..... \$16.95 Net Less 20 or

#### 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 Font Fabrikoid with embossed border. Weight 16 lbs. Supplied in black, blue, brown finishes. Size 15½ Inches long, 12 inches wide, 73½ inches high.

No. 91981. Each (12.70.

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 two records with one winding. Covered in genuine Du Font Fabrikoid. Weight 11% lbs. In black, blue, brown finishes. Size 131% inches long, 11% inches wide, 7% inches high.

No. 91980. Each \$8.45. No. 9198 Less 201 ...:... \$8.28 Net

#### VERIBEST NEEDLES FOR PHONOGRAPHS

o. 91978. Per Box of 50....... Sp. ify Medium, Loud, Extra Loud

#### **PHONOMOTOR** PACENT



The Pacent Phonomoter is an electric phonograph motor which can easily be installed under any motor-board to per-mit electric rotation

No. 96204 List \$35 00 Each \$21.00 Less 2% or.....

#### PACENT ELECTROVOX



The Pacent Electrovox is a complete electrically-operated phonograph when plurged into any radio set and connected to the electric light scoket. It plays rec reds with all the beauty and tone quality of an expensive electric phonograph. Just wit until you hear this wonderful modern music reproducer; it will be a raw lation. This in trument is not at in a handsoine wainut cabinet. The Pacent phonomoder und is of the induction type and cubsumes about 20 With at 110 Volt. The celebrated P and De Luxe tor arm is mounted on the light-hand ide of the metoric and with the ord concelled. The volume control, see die cups, radio to reard with the ord concelled. The volume control, see die cups, radio to reard with the ord concelled. The volume control, see die cups, radio to reard switch, tone arm rat and special complete. The Electrowa at I recent can only be uned for A. C. sets. D. C. model will be available shortly.

## "The **ROTOR"** Phonograph



No. 96788 List \$25.00. Each \$15.00. Less 2 % or.....

### ROTROLA

The Rotrola is a portage to the clear tre phonograph when plured into your radio out and connected with the electric light current. A quality pre thet throughout that is really the last word in compartness. Equipped with the "Rotor" electric motor and the phonographic motor and the phonographic motor and is mounted on a fabrickoid portable ca. The reard alb um hitself in the cover to be closed, while rord is playing the cover to be closed, while rord is playing the cover to be closed, while rord is playing the cover to be closed, but the cover to be closed. But the cover to be closed, but the cover to be closed to cover the cover cover th

No. 96789 List Price, \$40.00. Dealer's Price, \$24.00 Less 2% or......

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



Thordarson Transformers are unconditionally guaranteed. They are built with one aim—perfect reproduction.

#### **AUDIO TRANSFORMERS**

The regular audio transformers have teron top and are made in three

No.	Ratio	List	Each
93385	31/2 to 1	.\$4.00	\$2.40
93386	6 to 1		2.70
93387	2 to 1	. 5.00	3.00

#### **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 \$4.80

#### 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	Input No. T-2408	\$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. 93388 Type 190.....List \$5.00 Each \$3.00

#### THORDARSON FILAMENT HEATER TRANSFORMER

Type T-2445 is used to supply proper voltages to the new AC tubes such as CX326, X327, UX126, and U127. Built with the customary Thordarson precision.



List Each 96703 Type T-2445.....\$10.00 \$6.00

### SPEAKER COUPLING TRANSFORMER



Speaker Coupler transformers to connect power tubes to Dynamic and cone speakers. T2901—To couple one CX371A or CX350 to high impedance speaker:
No. 97423. List \$12.00 Bach \$7.20
T2902—To couple one CX350 to Dynamic Speaker: peaker: No. 97424 List \$12.00 Esch \$7.20 T2876-To couple one CX310 to high impedance List \$10.00 Each \$6.00 T2903-To couple two CX350 tubes into a Dynamic: No. 97427. List \$12.00 Each \$7.20 T2629-To couple two CX310 Tubes into a Dynamic: No. 96788... List \$10.00 Each \$6.00

#### THORDARSON Z-COUPLER



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

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



LECTRIC MFG. CO POWER COMPACT

R171 & R210

Thordarson Power Compacts have greatly simplified the building of "B" 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 Raythaga BH or ORS tube

Thordarson Power Compact R-210. For use with CX 381 and 310 Power Tube.
No. 93169, R-216, List \$20.00. Each..........\$12.00
Thordarson Power Compact R-280. For use with CX

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.

T2098—For 2 CX310 or CX381 Tubes: No. 96704 ..... List \$20.00 Each \$12.00 T2900 For starte CX350 Tube Amplifier: No. 97428 List \$20.00 Each \$12.00 T2950—For CX350 Push-Puli Amplifier: No. 97429 ... List \$29.50 Each \$17.70

R-196-36 HENRY CHOKE COIL for use in filter circuits with "B" Eliminators and power amplifiers.

### **THORDARSON Output Resistors**

No. 93394......List \$5.00



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

Type R-508 1... R-508 3445 For Use with R-171 R-210 Each 96709 96710 \$2.15 \$1.29 2.94 5.85



#### POWER INPUT **PLUG R-172**

This plug makes a convenient method of connecting the power amplifier to the re-ceiver. 3 ft. cord.

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

#### POWER PACK R-171

All parts used in this Kit are official and approved by Thordarson.
Uses 371 Power Tube and Raytheon BH Tube.

1 Thordarson Power Compact R-171
1 Thordarson Output Choke R-196
1 Thordarson Restance Unit R-508-1
1 "B" Condenser Block (Tobe or Potter)
1 2 Mfd. Condenser (Tobe or Potter)
2 Benjamin CN Sockets
1 Thordarson Input Plug R-172
5 Erry Blading Posts

No. 95049 Complete with book of in-structions. List, \$39.15 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
 List
 Each

 1 Thordarson Compact R210
 \$20,00
 \$12.00

 1 Thordarson Steel Chassis R211
 5.00
 3.00

 1 Thordarson Restance Kit R-508-3445
 4.90
 2.94

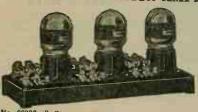
 1 Thordaron Coupling Transformer R76
 6.00
 3.60

 1 Thordaron Fower Input Plug R172
 1.00
 60

 1 Tobe 210 Condeaser Block
 18.00
 10.80
 

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

#### DAVEN TELEVISION AMPLIFIERS



pled unit - the last word in faithful television reproduction. All clips and binding posts are heavily nickeled. Comes completely wired. nothing else to buy.

No. 98290 3 Stage .....List \$12.50 Each.... No. 98480 Stage .....List \$12.50 Each... \$8.12
Stage .....List \$17.50 Each... 11.38

#### 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."

Lamp. 10-14 mis.

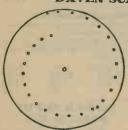
No. 98481 ... List \$3.50 Each \$2.62

TELEVISION LAMP. 20 to 80 milliamperes, striking voltage 160. Picture appears on a plate in the center of the tube, size 1½" x 1½"

No. 98292 ... List \$12.50 Each \$9.37

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

#### DAVEN SCANNING DISC



Daven Scanning Discs are accurately laid out so as to prevent distortion. Furnished in the folrately laid o distortion. F lowing sizes:

TYPE T-24, with 24 apertures. Each 98294 List \$5.00 \$3,25

T-45, with 45 apertures List \$10.00 \$6.50 \$6.50

TYPE T-48, with 48 apertures. \$6.50

TYPE T468 Combination Disc for receiving 24, 36, and 48 line pictures. No. 98482......List \$15.00 Each \$9.75

#### **DAVEN BUSHINGS**

Bushings to fit ¼", 5/16" or %" motor shaft. State size.
No. 98299......List \$1.00 Each 65°

#### TELEVISION RECEIVER



The Daven Television Receiver has been designed to asbeen 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, Bushing, Rheostat, cables, T4 amplifier, and either a 24, 36, 45 or 48 hole, scanning disc. Be sure to state size of disc when ordering.

No. 98483 Complete less Amplifier Tubes, List \$125.00.

#### Daven Television Essential Kits

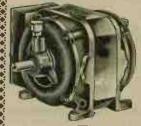


#### RAYTHEON KINO-LAMP

The Raytheon Kino-Lamp is simple in construction and operation. The clear glass bulb contains two flat metal plates 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 220 is impressed on the plate, the negative one glows with a vivid salmon plink 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 weaves the pattern of light dots into a living image on the plate. Requires a working voltage of about 235 volts. Complete instructions with each tube.

No. 98277 List \$7.50. Each....

### **Baldor Television Motor**



The ideal television motor. Silent in operation and free from hum. The speed may easily be changed to and kept constant with the speed of the motor at the transmitting end. Built with very rigid specifications in order that satisfactory results are obtained. 110 volt, 60 cycle. Shipping weight, 35 lbs.

No. 98529 Each \$24.00. Less 2% or.....\$23.52

## **Television Type Clarostat**

A low range Clarostat of the power type, ranging from 25 to 500 ohms, for controlling television motors. Sturd-lly built—even, velvety control. One-hole mounting.

No. 98288 List \$3.50

Each \$2.28

### **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 48crease illuhole type.

No. 98194 48 Hole List \$15.00 Each \$9.75



No. 98276 List \$8.50 Each \$4.50 Less 2% or....

#### X-L NEUTRALIZING CONDENSER



For use in Neutrodyne, Browning-Drake, Roberts' McMurdo Silver's

Knockout and any circuit where balance is required. Extreme micrometer adjustment.

#### X-L VARIABLE GRID CONDENSER



Designed to insure correct and perma-nent value for any tube or circuit within its range.

Used in Super-Het, replacing fixed con-densers. Complete with grid lead clips. Capacity List Each

93288 .00002 to .0001 93289 .0003 to .001 93291 .0001 to .0005

#### WIRT STATIC FILTER



Why put up with stastic-distorted rewhy put up with stastic-distorted re-ception when this in-expensive little item will absolutely elim-inate static and give you clear, life-like installed in 2 or 3 de to operate. Very

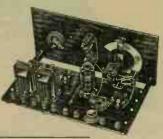
reception? Easily minutes and simple to compact and foolproof.

No. 98584 List \$2.25.

#### Wasp Short Wave Set

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 Colls. Great distance in the short wave band can be had with this kit. Here's the season's biggest seller. No. 98489 Completely packed at the factory. List \$33.50. Each \$20.10 Less 2 % or





#### 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. 98497 List \$12.50. Each \$7.50 Less 270 Or....

#### TELEVISION SPEED CONTROL CLAROSTAT



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

List \$5.00.

\$300 Less 2%

### ZING DIDI LATTUTRALA DILATOGRAMI MANDI DEPERTURA PARE ALBAMBAR BERGARAN DILATA DE BARGA DEL CARRESTO DE LA CARRESTO DEL CARRESTO DEL CARRESTO DE LA CARRESTO DEL CARRESTO DEL CARRESTO DE LA CARRESTO DE CITIZEN'S RADIO CALL BOOK



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

No. 98557 List 50c. 10 Lots

## AT LAST! A REAL RADIO Trouble Shooting Book



By E. R. HAAN

Contains 328 pages, over 300 illus-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, climinators, foud speakers and tubes.

Buy this book and your service will improve.

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A BOOK YOU SHOULD OWN!

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Drake Cyclopedia
Amest comprehensive book
relating to all phases of
radio. Profusely illus-

No. 97068....List \$6.00 THOUGH AND REAL PROPERTY OF THE PROPERTY OF TH

## LATEST RADIO STA-TION FINDER 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 kilocycles, 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. for them.

6 Lots 15c Each 16c



#### **BOOKS ON RADIO**

RADIO ENCYCLOPEDIA by S. Gernsbach. A very comprehensive treatise on all radio subjects.

Each, \$1.50 No. 95042 List, \$2.00

os from Harry Alter"

## SUPER-SENSITIVE

#### UNIVERSAL BROADCAST COILS



Kit consists of four Universal Coils suitable for both antenna couplers and interstage R. F. couplers. Suitable for all type of tubes both A. C. and D. For use with .00035 condenser. No. Type List Each \$15.00 \$9.00 98380 T1-233

98380 U-233 \$15.00 \$9.00

KIT NO. U-230
The same kit for use with .0005 condenser.
No. 98381 Type U-230 List \$15.00 Each \$9.00

KIT NO. U-163
Similar to above kits except cannot be used with Shield Grid Tube and is equipped with a variable primary in antenna coll. For use with .00035 condenser.
No. 96802 Type U-163 List \$15.00 Each \$9.00

KIT NO. U-16
The same kit for use with .0005 condenser.
No. 96800 Type U-16 List \$15.00 Each \$9.00

AERO-COIL 

This kit consists of three Universal Coils suitable for either interstage or antenna couplers. For use with all type tubes both D. C. and A. C. For use with .00035 condenser. and A. C. con lenser.

Type U-203 List Each No. 98382 \$12.00 \$7.20

98382 U-203 \$12.00 \$7.20

KIT NO. U-200
The same kit for use with .0005 condensers.
No. 98383 Type U-200 List \$12.00 Each \$7.20

KIT NO. U-1203
Similar to above kits except can not be used with Shield Grid Tubes and is equipped with a variable primary in antenna coil. For use with .00035 condenser.
No. 98384 Type U-1203 List \$12.00 Each \$7.20

KIT NO. U-120
Same kit for use with .0005 condenser.
No. 98385 Type U-120 List \$12.00 Each \$7.20

## TWO COIL KITS



Kit contains two inductance units especially designed for one Shield Grid Tube to be used in connection with a regenerative detector. For use with .00035 condenser

Type U-263 List \$8.00 \$4.80 KIT NO. U-260

Same kit for use with .0005 con-

denser. Type 87 U-260 List \$10.00 98387 \$8.00 8.00 \$4.80 Each \$6.00 Type U-273

Designed for use with all tubes except Shield Grid Tube.
The most efficient kit ever sold for this type circuit.
For use with .00035 condenser. with .00035 condenser 9 Type U-270 Lis

List \$10.00 Each \$6.00

KIT NO. U-270
Same kit for use with .0005 condenser.

#### REGENERATIVE COILS

No.	Type	Condenser	No.	Type	Condenser .
96811	TJ-43	.00035	98392	11-63	.00035
96810	E7-4	.0005	98393	T7-6	.0005
98390	TI-53	,00035	96809	T1-963	.00035
98391	U-5	.0005	96808	U-96	.0005
List \$4.	00			10ac	

#### **AERO CHOKE COILS**



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

all modern	circuits.		
No.	Туре	List	Each .
96812	60	\$1.50	\$0.90
96814	248	1.50	.90
98395	AA-17	1.75	1.05
			1100

#### AERO SHORT WAVE CONVERTER

98340



A single-tube converter using the new Aero "International" short wave coils. Single dial control. Easy to build. Us s 299 or 301A typ tub. Complete less cabinet. No. Kit No. List Hach 98339 12 12.00 \$19.20 Each \$19.20 erter No. Rit No. 14 Same as converter 12 except that a 327 tube is a iz d. An A. C. model.

No. Kit No. List East tube is util-

\$32.00

## SUPER-SENSITIVE **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
3 coils and base mounting 3 coils and base mounting. Uses .00914 condenser on secondary and .00025 on feed-back control. Type LWT 125 List \$12.50 Each \$7.50

#### 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
96818	4	125 to 250 Meters )		
96819	5	250 to 550 Meters	\$4.00	\$2,40
96820	INT-0	13 to 29.4 Meters		02170

		PRECIENT TELL I	CALLA	
No.	Coil	Range	List	Each
98396	INT-1		\$4.00	\$2,40
98397	INT-2	02.0 00 00 2200013	4.00	2.40
98398 98399	INT-3		4.00	2.40
06300	PWI	Mounting Base with Pr	rimary 3.00	1.80

#### "AERO INTERNATIONAL" SHORT WAVE RECEIVING COILS



The new International Aero Colls follow the same general type of construction as the famous LWT-125, but are constructed of slightly heavier wire and the diameter of the coll has been with variable space wound primary and three plug—in colls of the new type. Range 16.4 to 89.5 meters. No. 98330 Type LWT-12 List \$12.50 Each \$7.50 Coil Kit No. LWT-11. Same kit without variable primary. For use after a Shield Grid Tube.

No. 98331 Type LWT-11 List \$11.50 Each \$6.90 Coil Kit No. LWT-11. Same coils as in LWT-11 kit, but are used for replacing LWT-125 coils.

No. 98332 Type LWT-10 List \$10.50 Each \$6.30



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

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. 98348 Type No. 11 List \$49,95 Fach 3.5

Same as Kit No. 11, except two 326 and one 371 A No. 98349 Type No. 10 List \$49.95

#### INTERNATIONAL S. W. BROADCAST RECEIVER

The Aero "International" employing 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 cabinet, but employs 7x14 drilled Micarta front panel, and all other parts necessary to assemble.

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

#### THE F-K SCREEN GRID FOUR SHORT WAVE RECEIVER



The F-K Screen Grid Four is a complete four tube short wave receiver covering a wave length range of 18 to 120 meters with the three coils supplied. It has in the most difficult locations out-performed every short wave set with which it with which it has been com-pared. The cir-cuit is the most efficient known, - an aperiodic screen grid R.F.

nier dials, one for funing and one for regeneration control. A detector rheostat, with switch turns the set on and off and regulates the smoothness of operation Extra coils may be obtained to increase the wave length range from 13 to 650 meters. Contained in a beautiful satin finish aluminum cabinet only 10½ long, 67 high and 57 deep, with rubber feet. Batteries only are recommended for best operation but good power units may be used if desired. The tubes required are 1-UX222; 2-201A and 1-112A.

No. 98608 F-K Screen Grid Four, complete less tubes. List \$56.00. Each \$33.60. Less 2% or .....\$32.93 Net

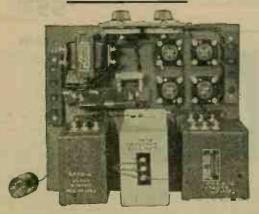
#### TWO TUBE CONVERTER

The 2-tube converter, for use with any broadcast receiver, is the san e 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-CX3.2 and 1-CX301A tubes.

No. 98609 F-K Screen Grid 2. Tube Converter.

List \$49.00. Each \$29.40. Less 2% or .....\$28.81 Net

			EX	TR	4 (	CO	IL	S	List	Less 2 Pct.
No. 98610	Extra	Coil	No.	1319,	1.0	to	19	meters.	\$2.75	\$1.65
No. 98611	Extra	Coll	No.	12020,	120	to	200	meters.	\$2.75	\$1.65
No. 98612	Extra	Ci	X0.	19035,	190	to	360	meters.	\$2.75	\$1.65
No 98613	Tevtra	Cot	350	35060	350	to	4100	meters	\$3.00	\$1.80



#### 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. Uses the following tubes: 1-CX350, 1-CX374, 2-CX381, and 1-C327.

No. 98558 List \$1\$2.00. Each \$61.20. Less 2% or .....

\$5998 Net less tubes



### TRANS-

**FORMERS** Type 223 Hi Mu Audio

Transformer
for use between first stage Shield Grid Tube and any standard power tube.

TYPE 225 and 226 First and Second Stage Audio Transformer for use between any standard detector and first and second audio stage.

No. 98441 Type 225 List \$9.00 Type 225 Type 226 List \$9.00 List 9.00 Each \$5.40 Each 5.40

No. 98442 TYPE 251 Output Transformer or Impedance, adjusted to match any standard power tube.

No. 98443 Type 251 List \$6.00 Each \$3.60

TYPE 255 and 256 First and Second Stage Audio Transformer used between detector and first and second audio stage. Ratio 4.2 to 1.

No. 98444 Type 255 List \$6.00 Each \$3.60 stage. R No. 98444 No. 98445

Type 256

List 6.00

Each \$3.60 Each 3.60 Each

#### 220 AUDIO TRANSFORMER



An all stage transformer. Ratio 3 to 1. Largest selling high grade transformer ever made. No. 93373 List \$8.00 Each \$4.80 TYPE 221 Output Transformer, used between speaker and power tube, prevents blasting and damage to speaker.

speaker. No. 93371 List \$7.50 Each \$4.50

No. 93374 List \$7.50 Each \$4.50

TYPE 222 Output Transformer, same as 221 except equipped with four tip jacks and 5-foot cord. Each 93397 Type 222 List \$8.00 \$4.80

Type 230 and 231 Push Pull Input Transformer for use in high grade push pull amplifier or as audio transformer with ratio of 3 to 1 or 6 to 1.

No. 93490 Type 230 Input List \$10.00 Each \$6.00

TYPE 328 Power Transformer; a heavy duty transformer for full wave 381 rectifiers.

No. 97016 Type 323 List \$20.00 Each \$12.00

TYPE 329A Power Transformer, for gaseous or filament

TYPE 329A Power Transformer, for gaseous or filament type rectifiers. Has 2 275 volts, 125 M. A.; 1 6 volt, 1 amp.; 1 1½ volt, 6 amp.; and 1 2½ volt 6 amp. Complete with cord and plug.

No. 97844 Type 329A List \$9.00 Each \$5.40

TYPE 331 Unichoke, 2 winding, high inductance filter choke. Rating 125 M. A.

No. 93391 Type 331 List \$9.00 Each \$5.40

TYPE 325 Filament Transformer, supplying 1½ volts at 12 amps, and 5 volts at 1 amp.
No. 96200 Type 325 List \$12.50 Each \$7.50

#### R. F. CHOKES



Keep currents from going astray. Polished moulded bakelite case. Each 97333 Type 276 List \$1.00 54c TYPE 276, same as 275, for use above 600 meters. 96201 Type 275 List \$0.90 60c

TYPE 277, designed for use below 200 meters. No. 98446 Type 277 List \$1.50 Each 90c

INTERCHANGEABLE COILS

r molded bakelite forme, spaced windings and low losses make the most efficient coil made today for use with .00035 con-



	No. 93378	Type 111A	Meters 190-510	List	Each
-	93379	111B	70-200.	\$2.50	\$1.50
1	93380	111C	30-75		91100
н	97328	1118G	250-500		
1	97329	116A	250-500	\$2.50	\$1.50
а	97330	119A	250-500		
а	98435	118A	250-500		
ш		SHOT	RT WAVI	E TYPI	E
AI.		I or use	with .0001		
11	No. 98136	Type	Meters	List	Each

98437 51-90 \$2.50 \$1.50 98438 117-0 30-53 98439 117-P 18-32 93384 Socket for above coils.\$1.00 \$0.60



S-M 540 SUB-PANEL BRACKETS Nickel-plated pair), size 6x1 1 x 1/4 inches with (one hardware, No. 97334 List \$0.90 Pr. Each \$0.54

### 710 SARGENT RAYMENT SEVEN

A Station In Every 10 Kilocycles



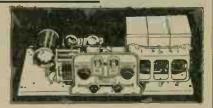
\$7800 Less 2%

CABINET ONLY

No. 98409-705 Aluminum Knock-Down Shielding Cabinet, especially designed for the Sargent-Rayment Seven. Size 27%x12x3%, included in S-M 710 Kit, but sold separately if desired. List \$27.00. Each....... \$16.20 Less 2%

720 SCREEN GRID SIX

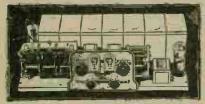
720 SCREEN GRID SIX
So selective is this receiver that, operated in the heart of Chicago, within only one to three miles of powerful level stations, it brings in out-of town stations only one dial division (10 K. C.) away from local! The tone quality of this receiver with the famous S-M 255 and 256 transformer is truly remarkable. Every note of the musical scale is brought out with full volume and fidelity of tone, and in its beautiful new S-M 700 metal rabinet, finished in two-tone moire brown, the T20 is a joy to the eye a well as to the ear. The 720 receiver consists of three stages of radio frequency amplification, using screengrid tubes, followed by a super-emittive detector and two stages of Clough high gain audio frequency amplification, with sower output tube, 112, 171, 210 or 250 tube being optional. The R. E. tages are controlled by two vernier drum dials operating one simple conclenaer and one "three gang" die-cast howl-type condenser of unusual accuracy and rigidity. Ganging troubles are forever eliminated. The new S-M 140 Universal coil is used in the antenna state providing greater antenna selectivity. A small condenser in this circuit provides variable selectivity from a minimum to maximum.



No. 98401 Type 720 Screen Grid Six Kit, Less Tubes and cabinet. List, \$72.50. Each.....

.55

#### THE 1929 SCREEN GRID LABORATORY MODEL SUPER-HETERODYNE



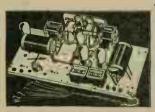
This receiver is a nine tube superheterodyne having only two tuning controls for a total of five stages of R.F. amplification! It is an ultra sensitive superheterodyne giving positive 10 K.C. selectivity, 2,000 to 3,000 mile regular reception range and marvelous tone. The circuit amploys one untimed stage of short wave R.P. amplification, followed by three stages of tuned R.F. amplification, all three tuned by a super-accurate three gans condenser controlled by one vernier drum dial. This amplifier is followed by a vercer rici first detector tube, an occllator, tuned by the second vernier drum dial and a sin le condenser, two stages of harply tuned 65 K.C. intermediate amplification, as exceed the second vernier drum dial and a second detector, and one audio stage of short wave are hielded in individual copper can, which are assembled upon the S-M 700 Cabinet when used.

R.F., occliator, both detectors and I.F. amplifier stages are hielded in individual copper can, which are assembled upon the S-M 700 Cabinet when used. The appearance of the set, with its attractive antique brass panel escucition, and when housed in the S-M 700 cabinet, is distinguished in the extreme, and while the whole set is but 21½" long, 10" deep and 71," high, it has the compactness and efficiency of the thoroughly engineered precision radio receiver that it is. The set has but one stage of andlo, and is intended for the discriminating buyer.

Requires six CX-322, two CX-301-A, and one CX-312-A tubes. The combined power amplifier and "B" units recommended are the S-M 681-250 Unipac or the 681-210 push-pull Unipac, both single stage amplifiers for CX-310 or CX-350 super-

NET Less Tubes

#### 740 COAST TO COAST SCREEN GRID FOUR



The new Silver-M rishall Coast to Coast Four offers the finest to Coast Four offers the new Clough high cain audio system with S-M 255 and 256 transformer—and netal characteristic for finest the finest to Coast Four. In summer time tests, through Chicago static and heat, it plays New York, Ffortida, Texas and California stations on the loudspeaker, cutting through interference to distant programs only 10 and 15 or 20 KC. Caway from 'locals' with decistences and ease. Its tone quality is such as only the new S-M 255 and 256 transformers can provide. The ''cye-value'' of the ''710'' is on a par with the best of ready-made sets when it is housed in the new Silver-Marshall type 700 metal hielding cabinet finished in a rich and heautiful two-tone crystalline brown which harmonizes with any home furnishings. Battery or Ilght socket operation is optional. Requires 1 CX-322, 2 CX-301-A, or CX-321-A detector and first tare amplifier and 1 CX-371-A power tube, CX-310 or CX-350 power can be used with S-M 675 ABC power unit.

No. 98403 List \$51.00. Each.

#### 740 AC COAST TO COAST KIT

For use with Ceco or other independent A C Screen Grid Tubes, and S-M 670 ABC or 675 ABC power units.

No. 98404 List \$53.90. Each ... \$31.80 Less cabinet and tubes

#### 730 ROUND THE WORLD FOUR



"Round the World" S-M

98406 98486 98407

#### S-M UNIPACS 680 SERIES



The S.M Unipac, a series of universal light socket power amplifiers, have steadily gained in popularity. Today the S.M. Unipac line embraces power amplifiers and light socket power amplifiers and light socket power supplies suited to every possible need, for home use, dance halls, theaters and stadiums. Furnished in a crystalline brown steel case. Size 19½x7½x5½ inches. Write for complete circular. 681-210 UNIPAC consists of a push-pull power amplifier using 2 Cx3310, 2 Cx381 and 1 Cx374 tube.

No. 98843 UNWIRED KIT List \$87.00 Each \$52.20

No. 97346 UNWIRED KIT List \$102.00 Each 61.20

No. 97337 UNIPAC Exactly the same as the 681-210 except that it includes a first audio stage which uses one Cx328 tube. No. 97336 UNWIRED KIT List \$102.00 Each 61.20

No. 97346 UNWIRED KIT List \$117.00 Each 70.20

681-250 UNIPAC is exactly the same as the 681-210 Unipac, without push pull, using 1 Cx350 in audio stage.

No. 97347 WIRED UNIPAC List \$81.50 Each \$48.90

No. 97348 UNWIRED KIT List \$96.50 Each 577.90

682-250 UNIPAC is the same as 682-210, but without the push-pull, using 1 Cx350 in audio stage.

No. 97349 WIRED UNIPAC List \$111.50 Each \$67.90

No. 97349 WIRED UNIPAC List \$111.50 Each \$6.90

#### 670 B AND ABC POWER SUPPLIES



POWER SUPPLIES

The new S-M 670 B and ABC Power Supply Units are unquestionably the highest grade B and ABC units in the radio field employing the 280 type full wave rectifier and filter system, which gives freedom from hum. The 670 B supplies fixed voltages of 22 90, 135 and 180 Volts, and a variable voltage of 22 to 90 volts. A total of 60 m.a. may be volts. A total of 60 m.a. may be drawn. The 670 ABC eliminator supplies the same B voltages as 670 B and in addition provides 1½ volts at 4 amperes, 2½ volts at 3.5 amperes and 5 volts at ½ ampere. It is a complete ABC power supply for any of the control of the con

	long, 5%" nigh, 3 5,	/16" wide. Each
No.	Type	(7 PR-1)
97353	670 B\$40.50	\$94 30
97354	670 B wired power supply 43.50	26.10
98416	670 ABC 43.00	25.80
98417	670 ABC wired power supply46.00	-0.00
		27.60

#### 685 PUBLIC ADDRESS UNIPAC AMPLIFIER

For coverage of crowds of 1,000 to 10,000 people, indoors or outdoors, with one to twelve loud-speakers, the 685 Public Address Unipac is the only light socket amplifier now available. It uses one C 327 one CX 326, one CX 350 and two CX331 rectifiers in a three stage light socket amplifier for microphone, radio or record pick-up amplifier for microphone, radio or record pick-up amplification. Size: 13½" long, 10½" high, 9¾" wide.

No. 98412 685 Unipac kit, less tubes.
List \$125.00. Each......\$75.00

No. 98413 685 Wired Unipac, less tubes.
List \$160.00. Each.........96.00

#### 678P PHONOGRAPH AMPLIFIER



The new S-M 678P Phonograph Amplifier employs a new unit of greatly improved performance, for use with a magnetic phonograph pick-up only and when so used it will provide the finest reproduction of records attainable. The unit consists of a two stage power amplifier with self contained power supply, using 326 and 310 or 350 type tube in consists of a two stage power amplifier with self contained power supply, using 326 and 310 or 350 type tube in consists of a two stage power amplifier with self contained power supply, using 326 and 310 or 350 type tube in consists of a two stage power amplifier to two involves and its complete in tiself for operation upon addition of record pickup, loud speaker and tubes.

No. 98415 678PD Unipae phonograph amplifier for dynamic speakers having own field excitation. List \$73.00. 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 third stage after any set, to boost volume and tone and to give maximum results with standard dynamic loud speakers. It uses one CX-331 rectifier tube and one CX-330 superpower amplifier tube and provides field current for the 90 to 110 volt DC dynamic speaker fields. Contained in metal cabinet same as the 675.

No. 98418 676 Dynamic Speaker amplifier Kit, List 349.00.

as the 673.

No. 98418 676 Dynamic Speaker amplifier Kit. List \$49.00.

Each \$29.40 Less Tubes

No. 98419 676 Wired Dynamic Speaker Amplifier. List \$55.00.

Each \$33.00 Less Tubes

#### **675 HIVOLT POWER SUPPLY**

The 675 Hivolt power supply allows the use of a 310 or 350 super power tube in the last stage of any receiver, adding greatly to its tone quality and power handling capacity. Uses one CX-381 rectifier and supplies 22, variable 46 to 90, 90, 135 and 425 volts B and 1½, 2\frac{1}{2}, and 7½ volts A C for power-tube filaments. Thirty-five volts "C" for the 210 or 84 volts for a 250 is supplied automatically by an internal resistor. Size: 17" long, 51," night and 3 5/16" wide. No. 98429 675 Hivolt Power Supply Kit. List \$54.00.

Each \$32,40 Less Tubes
No. 98430 675 Wired Hivolt Power Supply. List \$38.00.

Fach \$32,480 Less Tubes

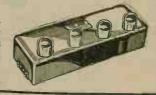
.... \$34.80 Less Tubes

#### 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 in 3 stages of T.R.F. amplifier and detector. Sealed in beautiful copper and brass catacomb. Size 15x15x3 in.

No. 96846 List \$35.00 Each \$21.00



440 (For Sereen-Grid Tubes)

A 3-stage long-wave amplifier operating on 112 K. C. and incorporating 3 CX322 screen-grid tubes, giving an amplification of 40 per stage—greater than any other long-wave amplifier. Each stage individually shielded and laboratory tuned to 112 K. C. Beautiful copper and brass catacomb with removable cover. Size 15x15x5½ inches.

No. 97264 List \$40.00 Each \$24.00

#### New S-M Midget Plug-In Colls



New and highly efficient moulded efficient moulded bakelite coil forms which plug into any 5-prong tube any 5-prong tube socket — economical, efficient, compact and above all, uniform, Winding space 1½" long by 1½" diameter with 1½" 1½" long 1½" diame-with 1/16" at bottom.

No.	Coil	Form	Only	List	Each
98420	130-P	Unwound	d, Smoo	th.65c	390
98421	130-T	Unwound	ī.		

Threaded 981/2...65c 39c WOUND COILS

			Conden-		
No.	Coil	Range	ser	List	Each
98422	131-T	17.4-32.1	.00014	\$1.25	\$0.75
98423	131-U	31-58	.00014	1.25	.75
98424	131-V	57-110	.00014	1.25	.75
98425	131-W	104-204	.00035	1.25	.75
98426	132-A	190-550	.00035	1.25	.75

#### 320-R Universal Condenser



A single, .00035 mfd. variable conmfd. variable c on n-denser, truly Universal, with full floating removable shaft. Mounts on either side, bottom or either end for left or right hand drive. Double-spaced modified SLF -SLW plates. Size 2½ by 4 1/16 by 4 1/16 by 4 1/16 cases as 320-R except ca-

321 Condenser-Same pacity is .00014 mfd.

323 Three Gang Condenser. A three-unit gang condenser, the most accurate ever made, in rugged die-cast frame for either side, end or bottom mounting. Each unit is equipped with an individual compensator and shielded from other units, Capacity each unit. 00035 mfd., all units guaranteed matched to within 15, over upper half of scale, or 1 mfd. over lower half of scale.

	2 0.61	TO CI IIdai	or scare.
No.	Туре	List	Each
98431	320-R	\$4.00	\$2.40
98432	321	4.00	2.40
98433	323	13.50	8 10

## S-M Midget Condensers



Capacity .000003 to .000025 mfd. Designed for com-pensating, balancing, an-tenna coupling, etc. Com-plete with control knob. 73360 List \$1.50. Each 90c

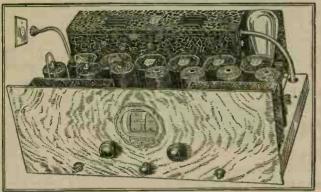
S-M 342 CONDENSER. Capacity .000004 to .00007 mtd. Suitable for all purposes where a larger midget condenser is called for than the S-M 340 described above. No. 97332 List \$1.75 Each \$1.05

#### 638 Stage Shield



A small copper shield 4½" long, by 5½", high, and 2%" wide, high, and 2%" wide, with pierced bottom and removable sides and top. Accommodates a ny kind of tubes with any S-M plug-in coils, plug-resistors and by-pass condensar. condensers.

No. 98428 List \$1.50. Each 90c



The Tyrman Imperial "80" is definitely 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 350 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

Shield Grid Tube Used in Tyrman "80"

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 \$199.50. Each \$119.50 Less 2% or..... Uses the following tubes: 3 A. C. Shield Grid tubes, 4 C327, 1 CX350, 2 CX381.

Takes a 7x21x11½ Deep Cabinet—Power Pack Comes Separate



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. Use 171 power tube and when assembled for A-C socket operation. Front panel, metal, lithographed, wainut finish, equipped with Tyrman Worm Drive Drum. Only three control knobs. The 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.



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 to present a receiver 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 7x18".

# Custom-Bilt Shielded Grid

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.

The circuit is of the impedance coupled type.

The circuit is of the impedance coupled type.

The past for their super quality of tone are leaveporated. The past for their super quality of tone are leaveporated. The past for their super quality of tone are leaveporated. The past for their super quality is trained by the past for the

No. 98469 Complete with \$ Less Tubes, List Each \$41.70 Less 2% or......

Uses the following tubes: 3 CX322, 2 CX301A, 1 CX371A. Cabinet size, 7"x18"x9½" deep.



#### ELECTRAD ROYALTY

#### Non-Inductive **HIGH RESISTANCES**

The accepted standard for volume control. Non-inductive, non-hydro-scopic. Unusually high current carrying capacity. Wire wound on genuine bakelite base. Resistance remains constant at every point.

No. Type
97000 "A" Variable Gridleak 1/10—7 meg.
VARIABLE HIGH RESISTANCE
97001 "B" 1500-100,000 ohms
97002 "C" 500-50,000 ohms
97004 "F" 0-5000 ohms
97006 "G" 0-10,000 ohms
97006 "G" 0-10,000 ohms
97007 "H" 0-25,000 ohms
97007 "I" 0-500,000 ohms
97008 "I" 0-200,000 ohms
97009 "L" 0-500,000 ohms
97009 "E" Compensator, 500,000 Potentiometer. List \$2.00
Each \$1.20



## **PHASATROL**

ELECTRAD

PHASATROLS are particularly recommended for a simple and effective way of balancing out and controlling radio frequency oscillation. Easily installed in new or old sets. Suited for any circuit having radio frequency amplification—whether tuned, untuned or reflex. One PHASATROL is used for each stage. A rue balancing device. Absolutely eliminates any tendency to R. F. oscillation or distortion.

No. 18th 1816-1816. 94549 \$2.75



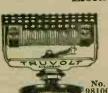
#### TONATROL Electrad

Tonatrols are variable volume controls for radio sets. Especially designed with the requirements of volume and sensitivity control of different circuits in mind.

#### For A. C. Sets

No. 96381 96382 96388 96389	Type  R R F Secondary  P R F Primary  S A F Secondary  A Ant Potentiometer	1.50 .90 1.50 .90
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#### Electrad TRUVOLT



The Electrad TRUVOLT is a voltage control for "B" eliminators. A variable power resistor. No iron to rust, no zinc to oxidize. Resistance element is copper-nickel alloy. Smooth, quiet operation. Made of heat-proof material. Wonderfully efficient. All rated at 25 watt.

	Resistance		Resistance
No.	In Ohms	No.	In Ohms
98100	200	98106	3000
98101	300	98384	5000
98102	400	98385	10000
98103	500	98107	20000
98104	750	96386	25000
98105	1000	96387	50000
96383	2000		
Liet	92.50	Fach	89 10

#### TRUVOLT WIRE GRID RESISTANCE



Completely covered by varnished cambric, can be bent in any desired shape. Furnished in the following sizes: can be bent

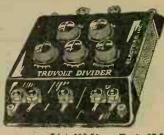
No.

Ohm ) Each

98500 98501 98502 98503	75 100 200 300	Each	98508 98509 98510	150 150 150 150 150 150 150 150 150 150
98504 98505	400	<b>J</b> C		
98506	500		98511	2000
98507	700		98512	3000 24

#### ELECTRAD 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.



No. 98118.....List \$12.50

Each \$7.50



#### TYPE V CENTER TAP RESISTERS

Designed for use across filament of A C tubes. Elec-trical centar for grid return leads provided by the cen-ter tap. Very accurate and furnished in the following

No.	Total	Resistance
98110	10	Ohms
98111	20	Ohms
98112	30	Ohms
98113	50	Ohms
98114	80	Ohms
98115	100	Ohms
98116	150	Ohms
98117	200	Ohms

List Each \$0.75 45c



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

### WIRE FIXED RESISTORS

	25 Watt-2" Long	4	75 Watt-	6" Long	
No.	Resistance in Ohms Each	No. B	tesistance	in Ohms	Each
B2	200				
B3	500	D2	200 7		
B4	400	D3	300		
B5		D4	400		
	500	D5	500		
B7.5	750	D7.5	750	-	
B8	800 51c	D8	800	\$11	
B10	1000	Dio	1000	-	_
B15	1500	D15	1500		
B20	2000 EACH	D20	2000	EAC	TE
B30	3000			LAU	
B40	4000	D30	2000		
B50	5000	D40	4000		
B60	6000	D 50	5000		
B75	75110	D70	2000		61 17
B80	8000\$0.54	D80			
B100	10000	D100	10000		1.20
B150	15000	D 250	10000		1.35
B200	20000	D 500	20000		1.59
B300			30000		1.65
B500		D800	80000		1.74
BOUU	50000 1.04	D1000	100000		. 1.80

#### UNIVERSAL LAROSTAT 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 wetts indefinitely. Very even, velvety control. One hole mounting. Guaranteed to give complete satisfaction. Minimum resistance 200 ohms, maximum 5,000,000 ohms.

No. 93474 List, \$2.25 \$1.35

Each.....

**Power Type Clarostat** Will carry 40 warts, safely. Universal range 200-100,000 ohm. Has many uses, permits fine adjustment. No. 93497 List, \$3.50 Each, \$2.10

#### TABLE TYPE CLAROSTAT

convenient tone control beautifully finished in bronze ad nickel with bakelite knob. Complete with double 

#### **Amsco Condensers**

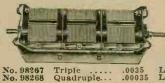
AMSCO is a line of condensers that is specified in a great many circuits. They have been tested and approved by the best radio authorities.

#### 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 gang capacitors. All Duo-Space Condensers may be mounted for drum or dial control, Furnished in the following sizes:

No.	Type	Capacity	List	Each
98260	Single	.00014	\$4.00	\$2.40
98261	Single	.00025	4.25	2.55
98262	Single	.00035	4.50	2.70
98263	Single	.0005	5.50	3.30
98264	Double	.00025	8.00	4.80
98265	Double	.00035	9.00	5.40
98266	Double	.0005	11.00	6.60



#### Triple and Quadruple Unit

Truly the finest condensers made. Used in all the popular kits such as Silver-Marshall, Aero, etc. List \$13.50 Each \$8.10 List 18.00 Each 10.80



#### 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 crowd-ing. Rotor shaft of chromium ing. Rotor shaft nickel needle steel. Highly effi-

No.	Type	Capacity	List	Each
96328	Single	.00035	\$3.00	\$1.80
96329	Single	.0005	3.50	2.10
96330	Double	.00035	6.00	3.60
96331	Double	.0005	7.00	4.20
	SPECIAL SHO	ORT WAVE	CONDENSER	
96363	Single	.00014	3.50	2.10

#### STRAIGHT TUNING LINE

A modified frequency line which allocates stations on the dial in equal wave length divisions. Perfect bear-ings. Single hole mounting. Triple type make single control practical. Has variable compensating condenser for balancing.

No. Type	Capacity	List	Each
96320Single	.00025	\$ 3.00	\$1.80
96321Single	.00035	3.25	1.95
96322Single	.0005	3.75	2.25
96324 Double	.00035	6.50	3.90
96325 Double	.0005	7.50	4.50
96326 Triple	.00035	9.75	5.95
96327 Triple	.0005	11.25	6.75



#### AMSCO UNI-COUPLE

A simple coupling unit for mechanically linking two or more variable condensers. Insulated collars.

No. 98269 ..... List 35c Each 21c



#### **AMSCO TOM THUMB** CONDENSERS

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

No.	Capacity	Plates	List	Each
98270	.00001	3	\$0.90	\$0.54
98271	.000025	7	1.00	.60
98272	.00005	13	1.25	.75
98273	.0001	23	1.50	.90
98274	.00014	35	2.00	1.20

#### **PUSH-PULL SWITCH**

Outside part polished nickel finish. Fits any thickness panel. 

#### PILOT CONDENSERS

Last word in condenser design. Removable that, find hole mounting on both sides, and sub panel mounting. Separate condenses can be ganged by using

No.	Plates		List	Each
95057	8	.00017	\$1.90	\$1. 4
95058	13	.0009	2.00	1.20
95059 95060	17 23	.00035	2.15	1.29
98475		Cond. coupler	2.25	1.35
30473	110. 12	Cond. Couplet	,20	.10





#### ALL **AMERICAN AUDIO** TRANSFORMERS RAULAND LYRIC

Designed for those desiring the summer in natural reproduction of sound. Uniformly good reproduction is obtained over enof these transformers radio receiver will make a deciduction.

No. 98540 List \$9.00 Each \$5.40



#### ALL AMERICAN STANDARD AUDIOS (New Style)

These new type Standard Audio cransformers offer all the mechanical and electrical advantages of years of manufacturing experience. Heavy steel shell shields transformer completely. Entire unit sealed Heavy steel shell shields transfor-mer completely. Entire unit sealed against climatic conditions pre-venting electrolysis and assuring long life.

No. 91511 Radio 3 to 1. No. 91521 Radio 5 to 1. List \$4.50 Less 2% or Each \$2.70.

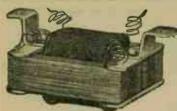


#### NEW PILOT BAKELITE SHELL TRANSFORMERS

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

No.	Type List	Each
98490	2 to 1 Audio\$2.75	\$1.65
98491	3½ to 1 Audio 2.75	1.65
98492	1 to 1 Output Trans 2.50	1.50
98493	Output Filter 3.25	1.95
98494	B Eliminator Choke 2.75	1.65
98495	Input Push-Pull 3.00	1.80
98496	Output Push-Pull 3.00	1.80

### DECEMBER



#### **JEFFERSON**

No. 370
Makes ideal replacement job. Can be used for practically any set. Unmounted, but has 2 brackets for attaching. 2 % x 2 4 % x 1 ½ .

OH	0	center.
o.	969	141
		\$2.25
		\$1.35
_		1 20
S		. 1.20
	ю.	lo. 969



### **Jefferson Transformers** CONCERTONE

This new audio gives equal amplifica-tion from 30 to 10,000 cycles. All vocal and instrumental notes are re-produced with natural tone. Especproduced with natural tone. Especially adapted for use with new power tubes. Sealed in metal case.

					Lit	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.

Ratio List Each 93252 3 to 1 \$2.75 \$ 1 65 93253 5 to 1

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and the continuous programment and the continuous and continuous programments and and and are also become the continuous and and a continuous and a continuous

#### TYRMAN AUDIO COUPLERS

Tyrman Audio Couplers are your assurance of faithful reproduction. Never has the full value of orchestra reproduction been more appreciated than in receivers which have adapted Tyrman Audio Couplers. Specially designed for invisible sub nanel wiring

No.	Type	List	Each
98498	Audio Caupler	\$8.00	\$4.80
98499	Audio Output Coupl	er. 8.00	4.80



## SANGAMO TRANSFORMERS

Sangamo Transformers are backed by 30 years experience in precision manufacturing. A line of transformers which MATCH the new tubes and speakers. Transformers designated by color spot as shown above.

No.	Type List	Each
98514	A Audio Yellow Spot\$10.00	\$6.00
98515	B Push Pull Input Blue Spot 12.00	7.20
98516	C-171 Push Pull Output Green Spot 12.00	7.20
98517	D-210 Push Pull Output Blue Spot 12.00	7.20
98518	F Impedance Orange Spot 15.00	3.00

#### SANGAMO "X" LINE

Perfect audio transformers at popular prices. Designed to reproduce the low and high notes with remarkable Designed

No.	Type	List	Each	
98519	AX Audig	\$6.00	\$3.60 ≣	
98520			3.90 ≣	
98521			3.90	
98522			3.90	
98523			3.90	0
98523 98524 98524			3.90 星	
98525			3.00	-
98520	F Plate Impedance	5.00	3.00	
<b></b>		en i i i i i i i i i i i i i i i i i i i	. <b>3</b>	3
Samunanana	10000000000000000000000000000000000000		World Radio	History

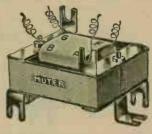
## PREMIER Quality



#### PREMIER HEGEHOG

This famous little transformer is about the size of an English walnut. 100 per cent shielded. Mounts anywhere, saves space in assembly.

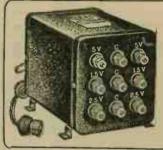
No. Ratio List East	h 10 Lots
	10 \$1.89
2046 1 to 4	
2047 1 to 5 3.50 2.1	
2048 1 to 10	70 2.43



#### MUTER REPLACEMENT TRANSFORMER

A commet dependable univer al replacement transformer designed especially for service work but also excellent for new circuits. Size 2½ x2½ x 12", with brackets that permit mounting in almost any position, either above or below sub-panel, thus making the adaptable for use with practically all sets. High grade silient steel ore giving full amplification without distortion. Universal Ratio. compact dependable uni-

List \$2.00 Each \$1.20 Less 2% or .... Net



#### **NEW KARAS** A. C. FORMER FILAMENT SUPPLY

Supplies filament potential or 12 tubes, 8 1%-volt for 326, 2 2½-volt for 327 and 2 5-volt for 371. No. 97185 List \$8.75 Each. \$5.25

Type 13
Supplies filament potential for 12 tubes, 8 type 327, 2 type 326, 2 type 371 or 210, No. 37186 List \$1 .50 Each, \$8.10

#### MUTER SUPREME A F TRANSFORMER



Supreme in range and tone-specially designed vacuum impregnated coil assembled in the highest grade silicon steel cone. Doubly sealed against atmospheric conditions with moisture proof compound.

No.	Ratio				List	Each
8176	First Stage					\$4.20
8177	Second Stage	,	٠	٠.	 . 7.00	4.20



#### **MUTER AUDIO FREQUENCY** TRANSFORMER

A popular priced audio transformer of exceptional good quality. Highest grade sill on steel core. Black enamel and nickeled finish.

	No. 93447 93448			List 12.00 12.25	Each \$1.20 1.35	10 Lots \$1.10 1.22
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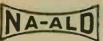


#### **MUTER TONE FILTER AND** CLARIFIER

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 set. Also pr

No. 96098 List \$5.00 Each \$3.00





### SPRING SOCKET

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

93361

List 

#### **NA-ALD ADAPTERS**



NA-ALD 945 AND 954 ADAPTERS

Test Adapters for converting from five to four and four to five prong tubes. Used in A. C. and D. C. testers.

No. From Tube Into Socket List Each 98478 Four Prong Five Prong \$1.00 \$0.60 98479 Five Prong Four Prong 1.00 .60 Annormormania de describicado en especia de describir de la compansión de la compansión de la compansión de la

#### PILOT SOCKETS

| Genetine bakelite for sub panel use. Will take UV, UX, or UX tubes. No. Type List Each 96497 214 4 Prong \$0.20 \$0.12 98258 215 5 Prong .25 .15



Genuine bakelite for use on bakelite or metal panel. Wirin, can be don above or below panel. Will take UV, UX or UY tubes.

Type List Each 96498 216 4 Prong \$0.35 \$0.21 217 5 Prong .40 98259 .24



#### DE JUR SOCKETS

Made of Bakelite. Fits into small space and heavily nickel-plated phosphor springs. A real value. No. 96311 List \$0.25

Each 15c 10 Lots.....



#### **DE JUR CUSHION** SOCKETS

Same as above but equipped with sponge rubber cushion.

No. 96312 List \$0.35 Each \$0.22

21c 10 Lots.....



#### SILVER-MARSHALL CX SOCKET

Made of moulded bakelite with the best rade of phosphor bronze prins. The Silver-Marshall Socket has a single mounting screw. Plainly marked and of the usual high S-M quality.

Each....

30C



#### **NEW 5-PRONG SOCKET**

Type 512

For new HC Detector tube. No. 96202. .. List \$0.50 Each \$0.30



#### AMSCO SOCKETS

#### FLOATING SOCKET

A rugged socket, yet delicately balanced, positively isolated from mechanical shock. Eliminates microphonics. A real super-efficient de luxe socket that will result in improved reception.

No. 96361.....List \$0.65 Each \$0.39

AMSCO UNIVERSAL SOCKET

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

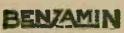
96362 List .0.35. No. 96362 List \$0.35. **21C** 

#### NATIONAL VELVET VERNIER DRUM DIAL

Type F

The National Drum Dial is designed to add beauty to the receiver. Easily attached to the & shaft of any condenser. A 6 volt lamp can be furnished to brilliantly light up the dial. Beautiful mottled dull silver finished to be with black or walnut finished knob. knob.

No. Knob List Each Black ... \$4.00 \$2.40 Walnut ... 4.00 2.40



### Push Type Socket



This new socket embodies all the shock-absorbing features of the Clera-tone and is destined for the new CX and UX tubes. No. 2730 and No. 2731 are without lover mounting base and intended for direct panel mounting. Drilling template and four machine errors included.

| No. | Park Indiana | List Fach | 92720 | With Mounting Bare | ... 0.75 | \$0.45 | 92730 | Without Mounting Bare | ... 0.75 | \$0.45 | 92730 | Without Mounting Bare | ... 0.75 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45 | \$0.45



#### 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.

No.	Knob List Each
97357	Black\$2.75 \$1.65
97358	Walnut 2.75 1.65
97360	Illuminator for B F Dial .30



#### 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.

No. 96365 List \$1.25. Each....



#### DIALS TYPE C

Fits any standard condenser with a 14 in. shaft. Have changeable ratio of from 6-1 to 20-1. Type C is the illuminated dial which lights up the dial. Complete with

No. List Each 97050 Clockwise (200-0).\$3.00 \$1.80 97051 Counter Cl. (0-200) ..... 3.00 1.80

Dual Range (0-100-0) ..... 3.00 1.80

## HARRY ALTER'S RADIO BOOK

#### Sterling R250 Power Amplifier

The Sterling R 250 Power Amplifier is de-signed to operate on either A.C. or D.C. sets. It is equipped either A. sets. It is equipped with its own rectifier and uses the 280 or 281 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



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. 98554 List \$38.00. Each \$22.80. Less 2% or.....

## SAMSON



### PHONOGRAPH AMPLIFIER

AMPLIFIER
Built of Samson units and all
wired up by factory and sealed.
Samson guarantee applies on all
units. Amplifier will work satisfactorily out of detector tube
of radio set and by means of
telephone type D. T. D. P.
switch can be switched from
radio set to phonograph pickup. Amplifier will handle up
to 20 reproducers for large
hall. Volume control enables
cutting down to mere whisper.
Complete A. C. operation.

Uses 1 C327, 2 CX310, gives undistorted power output of approximately 7 watts.

No. 97240......List \$125.00 Each...\$75.00

TYPE PAM-17

Same as above but is provided with 2 extra binding posts to take care of current necessary for field coil of dynamic type speaker.

No. 97241......List \$425.00

10 ..0 AWAEL O



Automatic Power Control
For switching "B" Eliminator and
Trickle Charger and makes your receiver a power operated set. Pure
silver contacts with a wiping action
assure perfect electrical connections.
Throronghiy dependable.
No. 96091 Series Type No. 444.
Voltaga drop less than .2 volts.
List \$5.00 Each \$3.00
No. 96.992 Multiple Type No. 445.
No voltage drop best for all ses.
List \$6.00 Each \$3.60

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#### CARTER No. 322 **TUBE SHIELD**

with the u ie shield grid tube. Shield completely covers the tube, including the base. The top ing the base. The top of tube shield is remov-able to facilitate placing able to facilitate placing the connector on the grid terminal of the tube. The wire leading from the connector is shielded. Carter Adapter Ring is used in connection with sockets, such as Benjamin, to hold Tube Shield in place. place.



type

Connector

.21

Each Tube Shield.....\$
Adapter Ring.... No. 322 No. 332 No. 342 .....\$1.50 \$0.90 97401 

### ACME PARVOLT CONDENSERS



Acme condensers are wound from paper and foils of the finest quality, specially treated for the purpose and housed in compact metal containers.

#### BY PASS CONDENSERS

No.	M. F. D.	Series	List	Each
98515	0.1	200	\$0.85	\$0.51
98516	0.25	200	.95	.57
98617	0.5	200	1.00	.60
98617 98618 98619	1.0 2.0	200 200 200	1.25 2.25	

3	FILTER CONDENSERS								
No.	M. F. D	Series	List	Each					
98620	1	200	\$1.25	\$0.75					
98621	2	200	2.25	1.35					
98622	4	200	4.00	2.40					
98623	1/2	400	2.00	1.20					
98624	1	400	2.50	1.50					
00.714 2			0 50	0.10					

400

6.00

2 60

#### ACME PARVOLT HOUSED CONDENSERS

98626

For Power Supply and Power Ampliflers

Specially constructed to save space, reduce number of connections, save labor and time in assembly.

98627 F 98628 F 98629 F	210 2250	List \$14.00 17.50 17.50	Each \$ 8.40 10.50 10.50
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#### PILOT KILOGRAD

A new and improved vernier dial (ratio 10 to 1), which indicates both degrees and kilocycles. 4 inch black bakelite dial.

List...\$1.00 Each. 60C

#### PILOT ART DIAL

De Luxe Model, that will dress up any set 



#### PILOT DRUM DIALS



The finest knob controlled drum dial ever offered. Smooth, velvety and positive in action. The illuminated seale is of polished bakelite very attractive in appearance. Control knob walnut bakelite. Adapted to most all popular makes of condensers.

No. 98534 Single Drum ......List \$3.25 Each \$1.95 No. 98535 Double Drum .....List 5.75 Each 3.45 

🗞 SERBOODDIKES BODDOORES ORBITAAN DIE STAAN DE OORST DIE STAAN DE STAAN DE

#### TYRMAN ILLUMINATED DRUM

Tyrman Illuminated Drum Dials Distinctive and individual in appearance. Worm gear permits velvet-smooth, positive 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.



No. 98532 Single Drum ......List \$ 8.00 Each \$4.80 No. 98533 Double Drum .....List 12.00 Each 7.20 💤 ne strang propriet sum manute sum manute sum manute sum munite sum manute sum manute sum manute sum manute 🕏

Each

\$0.21

\$0.24

List

.....\$0.40

## DECEMBER Potter Can MET 96210 96211 25 96212 5 96213 96214 Potter No. 96215 96216 Cap. MFD 96217 96218 96219 96220 5 96221

#### POTTER BY PASS CONDENSER

Potter Condensers are well made, the tissues being of all linen or flax stock.

	t	7	7.	"	ï	20	U	n	V	l I	y si	+	S	e	a.	16	90	tested.	capac-
					Ì	Î					,,	•	1		•	`		List	Each
																		60c	36c
۰	٠	٠	٠	٠		٠	٠										,	70c	42c
۰	٠	٠	٠	٠	٠	٠												75c	45c
٠			٠		٠		٠											90c	54c
																		\$1.50	90c

### POTTER FILTER CONDENSERS

Medium Duty 750 Volt D. C. Tested, 400 Volt D. C. Working Voltage \$0.85 \$0.51 .60 1.00 1.25.75 1.50 1.80 2.70

#### HEAVY/DUTY FILTER CONDENSERS For Amateur Transmitter Filters-Blocking DC cur-

- /	27/1/			
96234 96235 96236 96237 96238	.1 .25 .5	1000 1000 1000 1000 1000	List \$1.25 1.50 1.75 2.50 5.00	Each \$0.75 0.90 1.05 1.50 3.00
No.	Cap. W	or over. Torking Voltage	T /- A	

#### SPECIAL A-B-C ELIMINATOR FILTERS

6.00

Condenser blocks made expressly for the present day tubes such as CX371, 310, 350, etc. Blocks not listed can be

Turnished	upon request.		ă.,
98130 T2900	Tapped Capacity 2, 2, 8, 1, ½ MFD.	List Eac \$12.75 \$7.6 12.00 7.20 20.00 12.0 22.50 13.5	5 0 0

#### MUTER RESISTANCE AMPLIFIER



Muter Resist-ance Coupled ance Coupled Amplifiers are in strong demand because of their dependable quality. Fully equipped with heavy duty resistors and

completely wired and ready for installation. Specially designed for CX 340 tubes with provision for proper C Batteries and power tubes.

No. 98190 3 Stages ......List \$8.00 Each \$4.80 condensers, on. Specially



#### 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 was of tools.

List Each ....\$2.50 \$1.50 No. 98191 Complete with Instructions .. Ter erfer men bestiere er nicht in de neuten gegen bei er gefangen der geben einen eine er eine

### 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 24 amp charger, while the A Filter is ideal for replacing acid jars in such chargers as Phileo, Balkite, Westinghouse, etc. Both units sold separately.

No. 97497 A Filter No. 96831 Trans-a-Former	List\$18.00 15.00	Each \$10.80 9.00
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#### TINYTORE CONDENSERS

The established quality of TINYTOBE Condensers is recognized by set builders and manufacturers. TINYTOBE condensers are made for constant operating voltages up to 500 volts D. C. Extremely simple to install. Light and of small size. TIME No. Cap. .00025 .....\$0.35 94858 .0005 94859 .0015 94860 94861 .001 SPECIAL TYPE

.00007

.002 Each 24c 94863 .004 94864 .005 .006 ....\$0,45 \$0.27 94866 94867 0075 .01 .....\$0.55 .02 .......60 \$0.33 94868

002

### BYPASS AND FILTER CONDENSERS

OBE in their silvered metal cases, are standard for all byand filter circuit use. nass

Noiseless and unchangeable. Are used and recommended for all circuits and Raytheon "B" hookups. The 4.0 mfd. is especially suitable for use in output devices required with CX371 and similar power tubes.

No.	Tobe Type	Sizes	*	-
94850 94851	310	.1 mfg	List	Each \$0.42
94852	325 350 Molded	.25	00	.45
94853 94854	SOT WIOIGEC	1 1.0	1.25	.75
94855	304	2.0	1.75 3.50	1.05 2.10
96471	311 Buffer		1.50	.90

## 400 LINE CONDENSERS

For use with Raytheon BH Tube and all other B supplies furnishing 180-250 volts. "Short Path"

No.	ing gre	Lest emelency in opension	ortrach
96472	401	pe Capacity List	Each
96473	402	1 Mfd	\$1.20
96474	404	T 1711U	2 50
96475	411	2 x 0.1 Buffer 2.00	1.20

#### TOBE 600 LINE POWER PACK CONDENSERS

Extremely rugged, will operate continuously on D. C. voltages from 600 to 1,000 volts. Containers finished in the familiar TOBE silvered finish.

94844 94845 94846 94847	602 2.0	Capacity Mfd Mfd Mfd		٠.	٠.	٠.	٠.		٠.	2.50	Each \$1.20 1.50 2.10 3.60
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### Tobe 1300 Line Surgproof 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 CX310 Tubes in push, pull or the new CX350 power tubes.

No. 98527 2 Mfd. List \$5.00 Each \$3.00 No. 98528 4 Mfd. List \$9.00 Each \$5.40

Each

### SPECIAL TOBE B BLOCKS

Compact, cased groups of Condensers, with conveniently arranged terminals. Tobe "B" Blocks are specified for the following purposes.

No. 91848 94849 97498	D.250	 	 18.00	Each \$ 9.00 10.80
31430				15.60



#### **Tobe Interference Filter**

educes radio interference from oil burners, frigerators, sewing machines, motors, etc. roylded with 5 leads.

	o acado.	
No.	Type List	Each
96480 97012	1\$10.00 2 (Up to 5 H. P.) 15.00	\$6.00 9.00



#### DUBTUER

By-Pass Condensers

Type 907-908

These are Paper dielectric condensers designed for "By-Pass" work. Have special mounting feet. Solder lug terminals are provided. Occupies small

	Type 907	160 Volts		1 7	Гуре 908	400 Volts	
No.	Cap.	List	Each	No.	Cap.	List	Each
92015		\$0.85	\$0.51	96914	0.1 Mfd.	\$1.00	\$0.60
92016			.57	96915	0.25 Mfd.		.66
92017		1.00	.60	96916	0.5 Mfd.	1.25	.75
92018		1.25	.75	96917	1.0 Mfd.	2.00	1.20
92019	2.0 Mfd.	2.00	1.20	1			

#### DUBILIER GRID LEAK RESISTOR



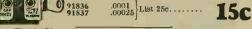
Dubilier Metaleak is an accurate and noiseless resistance. Glassis coated with extremely thin layer of specially

			prepared me	etal.
No.	Resistance		List	Each
96918	25,000 ohm )			
96919	50,000 ohm 💃		65c	39c
96920	75,000 ohm			
96921	100,000 ohm			
93020	1/2 Megohm	List		
93021	34 Megohm			
93022	1 Megohm	40c	0.011	
93023	116 Megohm	100	014	E
93024	2 Megohm		O Denice	38
93025	214 Megohm	Each	The last of	
93026		0.4-		100
73040	3 Megohm	240		

#### Megohm.. 93028 SMALL MICADON CONDENSERS

	20.	Capacity	<i>y</i>				LIST	Lacit
	91820	.0001	2					-
Type 601	91821	.00025	- (			q	0.20	12c
-56-	91822	.0005				4	0.20	THE
	91823	.001	,					
Mary Mary at	91824	.002					.25	.15
TYPE DE US ANT	91825	.0025					.30	.18
	91841	.003					.30	.18
0 1 9	91842	.004					.30	.18
CAP	91843	.005					.40	.24
- C-25	91844	.006					.40	.24
Service of the least of the lea	93012	.15						.60
	93013	.02						.60
TYPE US MT		ith G	of old	Loc	. L	MI	OHEM 1	ino
TYPE US PAT 7-6 20					116	-	A SETTI	
	No.	Cap	acity					Each

Capacity



No.

#### **Dubilier Interference Eliminators**

Designed to completely eliminate industrial interference and noise from radio receiving sets. Made in three types

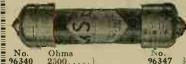
of Interference		5	
No.	Type	List	Each
98136	No. 1	\$5.00	\$3.00
98137	No. 2	7.50	4.50
98138	No. 3	15.00	9.00

# RESISTOR

A high-resistance element scientifically perfected to resist all moisture and atmospheric changes. Noiseless. grid-resistor of permanent and accurate resistance value.

No.		Range				List	Each !
94874	100,0	00 ohm	s	 	 	75c	45c
94875	.25	megor					ž.
91876	.5	megor					
\$ 94877	.75	megoh	m	 	 		Ĭ
94878	1.	megoh	ım	 	 		20-
¥ 94879	2.	megol	m.	 	 	\$0.50	30c
91880	3.	megoh	m	 	 		
94881	4.	megoh	ım	 	 		
94882	5.	megoh	m	 	 		, , , , , , , , , , , , , , , , , , ,
94869	8.	megoh	m	 	 		
94870	10.	megoh	m	 	 ر		Š

#### AMSCO METALLIZED RESISTORS



Amsco Resistors and Grid Gates are permanent and accurate. Type 115, 2 watt.

No.	Ohms		No.	Meg.	
No. 96340 96341	2500 5000	Each, 45c	96347 96348	14	Each, 30c
96342 96343	8000 10000		96349 96350	2	<b></b>
96344 96345	12000 50000		96351 96352	3 4	Each, 30c
96346	100000		96353	5	



#### **AMSCO** Resistor Couplers

For use in resistance coupled audio amplifiers for Hi Mu Tubes. Furnished without resistors or grid gate. Furnished

No. 96360 Type RC 2 List \$1.25 Each 75c No. 96364 Type RC 1 List 1.25 Each 75c TANTALIANI ANTARIANI ARTARIANI ARTARIANI ARTARIANI ARTARIANI ARTARIANI ARTARIANI ARTARIANI ARTARIANI ARTARIANI

#### SANGAMO MICA CONDENSERS

An accurate mica insulated condenser moulded in bake-lite. Specified in many kits and are always in demand.



No.	Capacity	No.	Çapacıty
98350		98358	.00025
98351	.00005	98359	.0003
98352	.00006	98360	.00035
98353	.00007	98361	.0004
98354	.00008	98362	.0005
98355	.0001	98363	.0006
98356	.00015	98364	.0007
98357	.0002	98365	.0008
List	40c	40	
13100	40c 2	4 ( 44	less 2%

No.	Capacity	List	Each
98366 98367 98368 98369	.001 .0015 .002 .0025	\$0.50	OC
98370 98371 98372	.003 .0035 .004	<b>3</b>	6c
98373 98374 98375 98376	.006		.42 .51 .54

- construction of securious inclinations are designed and the property of the property of the construction 

#### MUTER GRID LEAK

.01

98378



A permanent resistance element hermetically sealed in a substantial glass tube. Will fit all standing mountings. Guaranteed accurate.

No.	Ohm	No.	Meg List 25c
98170	50,000	93427	
98171	100,000	93428	4 Each 12c
98171 98172	125,000	93429	5 10 Lots
98173	250,000	93430	6 10 1005
98174	500,000	93431	7 4 4
93425	1	93432	10 11C
93426	2		

#### **Muter Bakelite Grid Leak Mounting**

Moulded black bakelite base 2½" long. mounting. Center hole for Nickel plated

brass clips.
No. Type
98175 825 Each 10 Lots 12c 11c





#### **MUTER GRID LEAKS AND** RESISTANCE MOUNTING

Black bakelite base, 1½' long with ½' mounting hole. Nickel plated brass clips with knurled terminals and lock nuts. Well constructed.

No.	Туре		Each	10 Lots
93438	For one Grid Leak	 	. 10c	9c
93439	For two Grid Leaks	 	. 23c	21c

.69



Yaxley Approved Radio Products are made to give reliable and lasting service and are fully guaranteed.





#### CABLE CONNECTOR Plug Type

Complete as illustrated with 5 foot cord and cable markers. Mounting plate can be mounted on base panel by means of bracket or bracket may be removed and No. 96256 Type 660.....List \$3.00 Each \$1.80 Type 612 Cable Connector Plug is the same as No. 660 excepting 12 conductors in place of 7, two pair being twisted for A C leads.

No. 98139 Complete ....List \$5.00 Each \$3.00 Extra parts may be furnished separately.

	Ext	tra parts may be furnished separately.	
No.	Type	List	Each
96257	650	Plug and cable only\$2.25	\$1.35
96258	680	Mounting Plate only	.45
96259	645	Receptacle Plug 1.00	.60
96260	635	Pin Plug 1.00	.60

#### CONVENIENCE OUTLETS









**Type 137 Type 136 Type 241 Type 135** Yaxley plates fit the standard switch box. These outlets are the proper way of house and apartment installation. Yaxleys are in big demand—stock these items. Yaxleys Type 135 is for loud speaker connection. A very popular 15c net extra.

#### **GANG PLATES**

The abo	ve outlets	are also furnished in combinations.	
No.	Туре	List	Each
96266	235	2 Loud speaker connections\$2.00	\$1.20
96267	238	Loud speaker, aerial and ground 2.00	1.20
96268	239	Aerial, ground and battery conn 3.50	2.10
96269	350	Loud speaker, aerial, ground and hattery connections	2,70
		Dattery confidentions 4.50	2.70

### YAXLEY JUNIOR JACKS



A small, compact, well built Jack that extends only 1 1 inch behind panel. Same characteristics as standard Jacks. For standard radio plug.

	No.	Туре	List	Each
1	96270	701 Open Cir		24c
	96271	702 Circuit C		33c
	96272	7 2A Two Circ		33c
	96273	703 Fil. Cont		39c
	96274	703C Double C	Circuit 65c	39c
	96275	704 Interstag	e 75c	45c



Junior Jack Switches

For use in sets where space is at a premium. Bakelite in-

YEARY No.10	200	sulation.	
Battery Switch	No.	List	Each
Phosphor bronze springs and pure silver contacts, buck make and break. Thoroughly dependable, No. 96295 Complete. List 50c Each 30c	96291 96292	Battery Switch\$0.70 Two Circuit85 Double Circuit	42c 51c 57c 66c 72c
Tase soc Facil soc .	70271	z way, z circuit. 1.20	120



Pacin

#### **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. 96296 No. 96297

## RHEOSTATS AND **POTENTIOMETERS**

The original air-cooled rheostat with a velvet smooth action and fine ad-justment. Base is bakelite. Very close adjustment. Single hole mount-

- 40	ing.	Complet	e with	bakente	KHOD.
Non	Туре	Ohm	No.	Type	Ohm
96278	102K	2	96282	120K	20
96279	103K	3	96283	125K	25
96280	106K	6	96284	130 I	K 30
96281	110K	10	96285	199K	100
List \$1.35.					81c
	AIR COO	LED POT	TENTIO	METERS	
Wa 06986	200 Ohm	)		4	7 0 -

400 Ohm List \$1.75. Each..... \$1.05 No. 96297 Junior Rheostats and Potentiometers Junior rheostat or potentiometer to meet the requirement for a small variable resistor. Mount in a single  $\gamma_{\alpha}$ " hole complete with Mount in a smg. hard bakelite knob.

RHEOSTATS

No. Ohm No. Ohm 98120 2 98124 25 3 98125 30 50

.63	98122	. 6 98	126	50
9 9	98123	. 10 98	127	100
List, \$0.75.	Each			450
Special Switch	hes can be obta	ined to fit	any Ju	nior Rheo-
stat. No too	is required to a	attach.		
No. 98119		List	\$0.40	Each \$0.24
	POTENTIO	OMETERS		
No. Ohm	Each	No. Oh	m	Each

No. Onm 8128 200	}	\$0.60	98601	2000	\$0.75
8129 400 8600 1000	, <u></u>	75	98602 98603	3000 5000	1.05
1		INDUC			
000					r a depend- et assurance.

able top switch. Perfect contact assurance.

Size 1½ in. Complete with Bakelite knob.

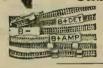
No. Type List Each

98604 4 Point \$0.75 \$0.45

98605 7 Point 80 .48

98606 9 Point .90 .54

### Cable Markers



Easily read markers, convenient to attach. Marker hugs the wire and can be drawn through small hole. Each box contains 16 markers. No. 96298 Per Box of 16...List 25c

Each 15c Yaxley Grid Resistances

#### Dependable wire wound resistors fo grid line. Mount directly to socket. nished in the following sizes: No Ohm EACH 98156 7000 EACH 98156 7000 EACH 98157 9000 for No 98150 100) EACH EACH 700 800 98151 98152 98157 15c 21c 98158 98159 300 1000 400



	and	l soldering	lug.		
RES	SISTANCE CA	PACITY	RES	ISTANCE CA	PACITY
No.	In Ohms	In Amps	No.	In Ohms	In Amps
801	1	.1	809	9	.4
808	2	.1	810	10	.4
803	3	.75	815	15	.35
804	4	.6	820	20	.3
805	5	.6	830	30	.275
806	6	.5	840	40	.275
807	7	.4	850	50	.150
808	8	.4	860	60	.150
List,	\$0.15. Each.				9c



YAXLEY JACK TIPS A new tip jack with distinctive colored caps, red for positive side of loud speaker, black for negative. Cap is of bakelite. Take standard phone tips.

No. 98607 No. 422
Per pair, List 25c
Bach. 15C Each.

Оприменения по применения "Service doesn't falter, when it comes from Harry Alter" 52



Yon 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



Smallest made—only 1½" in diameter. Projects back of panel only 4". The all metal frame dissipates heat quickly. A very popular seller.

No.	96131	2 Ohm		
No.	93400	3 Ohm		List
No.	93404	6 Ohm		\$0.50
No.	93401	10 Ohm	>	Each
No.	93402	20 Ohm		\$0.30
	93403	30 Ohm	à	
No.	93405	50 Ohm		

#### HEAVY DUTY "MIDGET" RHEOSTATS



Provided with a resistance strip & Provided with a resistance strip wide which affords more radiating surface. Thoroughly reliable. Con-tact arm of new and unique design with smooth action. Code MW.

No.	Ohm	No.	Ohm
96132	1/5	96135	6
96133	1/2	98201	10
96134	2	96136	20
98200	3	96137	30
	List	\$0.75	
	Each 45e	Less 2%	

#### NEW CARTER WIRE WOUND TAPERED **VOLUME CONTROL**



Designed especially for use in the new A.C. circuits, to be placed across Aerial and Ground for sensitive volume control. Ideal for circuits where the useful range of adjustment is crowded into a small arc or portion of the knobs rotation. Dissipates 5 Watts.

No.	Ohm List	Each
98202	400 )	
98203	750 }\$1.25	\$0.75
98204	1000	
98205	3000 \ 1.50	.90
98206	5000 )	
98207	6000 \ 1.75	1.05
98208	10000 2.25	1.35

#### CARTER TAPERED POTENTIOMETERS

No.		List Each
98209	400 }	1.50 \$0.90
98210 98211	100 )	4,0,00
98211	1000	1.75 1.05
98213	5000 (	2.00 1.20
98214	0000	
98215	10000	2.50 1.50

#### CARTER "IMP" RHEOSTAT



All-metal frame and self cooling. last word in a high-grade small-frame design. One of the most popular types. Project back of panel less than 38 and is only 138 in diameter.

No. 96130	 2	1
No. 92414	 3	
No. 93411	 6	
No. 92415	 10	List. \$1.00
No. 92416	 20	Each, 60c
No. 92417	 30	much, ove
No. 93412	 50	

#### CARTER "IMP" RHEOSTAT

With Filament Switch

Standard Imp Rheostat with a built in Filament Switch. A most convenient device, eliminating filament switch knob from front panel. Ohm No. 98216



98217

#### CARTER "IMP" POTENTIOMETER

List \$1.50

Each 90c Less 2%

Same design as Carter Imp Rheostat, Small and rugged. Fitted with bind-ing post terminals.

List Each No. 92418 200 Ohm No. 92419 400 Ohm ....\$1.25 \$0.75 \$ 98243

#### New Carter "Hi-Ohm" Volume Control



A non-inductive, wire protected, high resistance volume control. With carbonized resistance element. Com-plete with Bakelite arrow pointer

	Ohm
No. 93406.	500,000 \ List.
No. 93418.	200,000 \$2.00
No. 93419.	100,000 > Each
	50,000   \$1,20
No. 93413.	25,000

New Carter "Hi-Pot"
Potentiometer type with three terminal
curate and dependable control. three terminals. Insures ac-

500,000 Ohm 25,000 Ohm 19,000 Ohm No. 93408 No. 98220 .....List \$2,25 Each \$1.35 No. 98221



#### CARTER PORTABLE **VOLUME CONTROLS**

Case of black bakelite highly finished. Made in two types. One for volume control on Radio Set, also ideal for phonegraph pick-up combination. The other for use with the new A.C. sets. Works equally well on other type receivers.

No. 8222 8223	Type Speaker an Aerial and	d Pick-u	ıр А.С.	Sets.	 List .\$2.50 . 2.00	Each \$1.50 1.20
				2000,0	 	1.00



#### 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 299 Tube.

	FOR 301A TI	UBES		FOR 299 TUB	ES
No.	No. Tubes	Res.	No.	No. Tubes	Res.
95091	1	4 ohm.	96145	1	40 ohm.
95092	$\bar{2}$	2 ohm.	96146	2	25 ohm.
95093	3	1 1-3 ohm.	96147	3	15 ohm.
95094	4	1 ohm.	96148	4	10 ohm.
95095	Š	4-5 ohm.	96149	5	8 ohm.
95096	6	2-3 ohm.	96150	ĕ	6 ohm.
70070	•	List 25c.	Each 1	5c	о опш.

#### CRID RESISTORS

No.	Ohm	No.	Ohm	
98224	100	98226	500 )	T 404 20-
98225	200	98227	750 }	List 30c
98225 97193	300	97192	1000	Each 18c
2000	10		,	



Center Tapped Resistors Carter Center Tapped Resistors are used for A. C. flament circuits. They are small and convenient to

		ruinished as follows.
No. 97408 6	Ohm	No. 9741120 Ohm
No. 9740910	Ohm	No. 9741240 Ohm
No. 9741015		No. 9741360 Ohm
List	25 C	Each



CARTER Upright Resistors
Designed for upright
mounting. Requires very
little space. Furnished in
the same sizes as the flat resistors

List 25c

Each 150

TUBES
1bes Res.
40 Ohm
25 Ohm
15 Ohm
10 Ohm
8 Ohm
6 Ohm FOR 301A TUBES o. No. Tubes R Res. 4 Ohm 2 Ohm /3 Ohm 98228 98229 98230 98231 1-1/3 Ohm 4/5 Ohm 2/3 Ohm 98238 Upright Center-Tapped Resistors CARTER

Same construction as the above, except it is center tapped. Particularly designed for A.C. Filament Filament Circuits. No. 98240 98241 Ohms Ohms

98245 98246 98247 60 100 10 List 50c 15 20 98242 Each 30c 98248 400

\$0.47



#### 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.

CARTER

No. 93422 For Loud speaker. This outlet takes tips on speaker cord without use of the customary plug. List 60c. Each.

No. 98279 For aerial and ground. Also equipped with a standard A. C. outlet. Ideal for A. C. set installation. Each .....



#### CARTER "IMP" CORD TIP JACK AND PLUG



#### CARTER CORD TIP JACK

A simple, reliable cord tip jack with nickel plated mounting thimble. 1/4" hole. Minimum space required. No. 93420 List.....\$0.10 Each ..... \$0.06



#### CARTER "SHORT" JACKS

This Jack makes good contact with any plug. Heavy Bakelite insulators. Solder lugs are widely spaced to facilitate soldering. 1 inch

	back of panel.	77 1
No.	List	Each
93409	Open Circuit	15c 18c
75410	Closed Circuit	Toc

#### 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. 98249 .... .....List \$1.25

#### CARTER IMP BATTERY SWITCH



Quarter turn snap switch makes posi-tive contact. "On and off" name plate with pointer. One hole mount-ing. Complete

List \$0.65 Each \$0.39 No. 92464

#### CARTER IMP POWER SWITCH



For use in 110 volt circuits. Compact, rugged construction. One of the smallest switches on the market. Mounts in %" hole.

No. 97225 Type 110 List 75c Each 45c

Type 112 Power Switch same as above except single pole double throw.
No. 96833 Type 112 List 75c Each 45c

#### CARTER ADJUSTABLE RESISTORS

6 10



The ideal A.C. hum adjuster. Similar in design to rheostat and potentioneter except with shorter shaft and provided screw slot for adjustment.

"AP" Potentiometer Type No. Ohms No. Ohms 8284 6 98286 15 No. 98284 Ohms Ohms 15 20 98285 10 98287

List 50c. Each.. 30C

98283

98281

54

List 75c. Each. •

#### BELDEN COLORUBBER FLEXIBLE HOOK-UP WIRE



The ideal wire for set hook-ups. Flex ible and easy to use. Different colors facilitate making the connections. Soft tinned copper wire solders easily. Put up in cartons. 25 ft. coils.

	Color	List	Each
94534	Natural	40c	24c
94535	Green	40c	24c
94536	Blue	40c	24c
94537	Red	40c	24c
96417	Brown	40c	24c
96418	Yellow	40c	24c

No. 97100 RIO NATURAL 1000 ft. coil Each \$7.50 No. 18 (16x30) STRANDED TINNED COPPER WIRE 1-32 Inch Colorubber Insulation

No. 96419 Black... No. 96420 Red... List, 50c List, 50c Each, 30c 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 25-Lb, Lots Per lb.

Per Lb. No. 14 Square. No. 14 Round 94539



#### CELATSITE

CELATSITE is made in two The flexible, stranded types. The flexible, stranged 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. 18. A color for each circuit.

No.	Color	Length		
91921	Black	25 Ft.		
94922	Yellow	25 Ft.	List	Each
94923	Green	25 Ft.		
94924	Red	25 Ft.	\$0.80	\$0.45
94925	Brown	25 Ft.		
94708	White	95 E		

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. coll in indi-No. 94757 Per Per 25 Ft.....List \$1.75 Each \$1.05



#### Solid Celatsite

Makes a very neat job. No. 14 wire with non-in flam mable covering. Can be bent and rebent without cracking. 30° lengths.

No.	Color	Length		
4926	Black	25 Ft.		
4927	Yellow	25 Ft.	Per	Per
4928	Green	25 Ft.	Length	100 Ft.
4929	Red	25 Ft.	\$0.05	\$1.80
4930	Brown	25 Ft.		
1200	TT'hito	95 TC+		

#### 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.



#### CORWICO BRAIDITE

Braidite 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, brown and black. Specify color when ordering.

No.	Length	List	Each
98555	Solid25 ft.	\$0.30	18c
98556	Stranded 25 ft.	.35	21c



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.

No.	Type	Tube	Volts		
91890 91892	1-A 6-V	201A or 301A UV199, C299	6 6 5 3	List	Each
91895 91896 91769	112 220 3-A	CX112 & CX371 CX220 34 Amp.	3	\$1.10	66c
91877 91770	4-A 5-A	1 Amp. 14 Amp. Shielded Grid			
97232 97272 97273	622 226 227	UX 226 or CX 326 U227 or C327		]	

NEW DOUBLE AMPERITE MOUNTING
No. 97011 List 70c......Each 42e

#### MUTER FIXED RHEOSTAT



Protect and Lengthen Tube Life Has permanent resistance wire hermetically sealed in glass tube. Black Bakelite base. Recommended only for audio or radio amplifying tubes. List 50c.

No.	Type	Amp.	- •
95068	For 1 301-A	.25	Each
95069	For 2 301-A	.50	32c
95070	For 3 301-A	.75	320
	For 4 301-A		10
	For 1 299-61		Lots
	For CX-112		200
95074	For CX-220	.125	30c



#### BETTER BILT JACKS

Have solid brass, heavily nickeled frame, and high tempered nickel-plated

Spring Blades, with pure silver con-Insulation spacers are of Bakelite. The fantail con-on of contact lugs makes soldering easy.

No	. 91675	Open Circuit.	Each12C	
No	91676	Closed Circuit	Each	



#### STAR-RITE high-grade product that you can sell at an attractive price. No. 94350.....List 83c 6 Lots 79c

### "American Beauty" SOLDERING IRON

'American Beauty" soldering irons do the work easier, quicker and better. A very pop-ular electric tool.

THE RESIDENCE IN				
No.	Tip 3/8 5/8 5/8 5/8 5/8 5/8 5/8 5/8 5/8 5/8 5	Weight	List	Each Net
92804		18 oz.	\$ 8.00	5.33
92855		26 oz.	9.25	6.20
92856		42 oz.	11.50	7.67

## 

				is fur	ew type nished
ALL DES				with t	wo de- le tips.
Famous C	alrod elen	nent. Finest	all around	iron.	
No.	Size	Watt	List	Each	3 Lots
94234	2/16	55	\$2.75	\$1.78	\$1.73 2.10
94235	7/16	95	3.25	2.28	2.10
94236	5/16	Extra Tip	.10	.07	
94237	7/16	Extra Tip	.10	.07	

### TOOLS

## RADIO HAND DRILL Capacity is 0 to ¼ inch. Heavy nickeled frame, highly polished.

Each .....\$1.34 No. 53501



#### 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.

	3881	
(000	38812 oz.	05c
The second second	3880 4 oz.	10c
55(2)	38798 oz.	18c
1 52-380	No. Size	Each
1 1 1 miles	use. very serves	



#### HAN-D HAMMER

Combination tool. Hammer is 17½ in. long. Screw Drivers, one 5½ in., 2½ in. and 1¼ in. long.

No. 50910 Each......79c

#### LONG NOSE PLIERS



A tool that radio mec every mechanic wants.

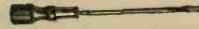
37c Each

#### RADIO SCREW DRIVERS



A useful size for radio work. Large handle furnishes better grip. Blade is stronger yet small enough at point for this type of work. Sells rapidly wherever put on display. Length over all 334°, 444°, 554°, contains three of each size. size.

97363 Complete Display.....



#### THE RADIO SENIOR

Blade is oil tempered and nickel plated. Just the thing for radio work. Width of blade, 1/26 inches. Furnished in the radio work.

No.	Blade Size	Each	Lots of 6 Each	
97420	4x <sup>3</sup> / <sub>16</sub>	12c	11c	
97421	5x <sup>3</sup> / <sub>16</sub>	13c	12c	
97422	6x <sup>3</sup> / <sub>16</sub>	14c	13c	

#### SCREW ASSORTMENT

handy assortment of nickeled screws, lugs, nuts and washers com-monly used in set building. 100 pieces to a box. List 50o.

No. 92573 Each, \$0.32 10 Boxes, \$2.75



#### GALENA AND PYRITE CRYSTALS

Good quality tested crystals, put up in small wood pill boxes. 10 Lots Per 100 Each ..\$0.08 \$0.70 \$6.00 4.50 Pyrite......Galena.... 91692 .06 91693



A set of 7 tools combined into one combined into one compact convenient and practical tool. Consists of six hex sockets, screw driver bit and nickel plated handle.





EBY BINDING Posts are always in seasonthey are advertised, packaged and are always ready turn-over. Each post equipped with nut and soldering lug.

ABLNK EBY POSTS

No.	Furnished in two sizes List	Each
92837 92838	Standard Size, ½ "x <sup>5</sup> 8"	10c
74030	ENCRAVED ERV DOCTE	12c

92840	Ant.
92841	
92842	A Batt. Plus
92843	A Batt
92844	B Batt. Plus
92845	B Batt
92846	2212 V. Plus.
92847	45 V. Plus
92849	90 V. Plus

No.

List 15c
Each 10c
Per 100 Assorted \$9.00
4,,,,,

	- ODIO	
No.		
92850	C Plus	
92850 92851	C	T 1-4
92821	Loop	List
92854	135 V. Plus.	_15c
96421	67 V. Plus	Each
98245	A Plus B	10c
96422	150 V. Plus.	Per 1
96425	Speaker Plus.	Assort
96426	Speaker-	\$9.0
96423	C Power 2	

#### X-L BINDING POSTS



The X-L "Push-Post" has many superior features. No screwing—no shearing of wires—no jarring loose. Easy to enter wires. Furnished with attractively plated markings. Excels in looks, action, service and convensions.

		Marking		Marking	
	96390	Aerial	96397	B 221/2	List
	96391	Ground	96398	B 45	15c
	96392	Loudspeaker	96399	B 90	Each
	96393	A	96400	B Ampl.	10c
,	96394	A plus	96401		Per 100
			96402	C Plus	\$9.00
		B plus	96403		) 11111
٠,					



X-L Binding Post Strip

engraved A minus, A plus, B minus, B Det., B Ampl., Ground and Aerial.

No. 96404...... List \$1.50 polished panel with seven No. 96404. List, \$1.50 Each, 90c

#### KESTER SOLDER

KESTER Solder is self-fluxing from tiny pockets inside strip. Ideal for all

#### ACID CORE SOLDER

. 10.	12	DOOL			r	44	9	LD,
91031	1	Lb.						630
91032		Lbs.						
91033		Lbs.						
		STR						
13- 14 1-1							_	

long. Resin Core.

91034 5 Lb. Pack....\$2.85 HOUSEHOLD PACKAGE
Lb. Coils in Display Carton.
per Carton.



		-	-		
	RESI	N C	OR	E	
No.	Spo	ol		Pe	r Lb.
91044					63c
91045					58c
91046	10 L	bs			57½c

# lones

Eliminates all messy wiring from set to batteries. New 1929 Line COMPLETE FOR SUB-PANEL MOUNTING-4 Ft. Cable
0. Contact List Each
155 5 \$1.50 \$0.90 96959
17 2.25 1.35 96960
10 3.40 1.80 96961 NG—TYPE PM 8 Ft. Cable List Ea \$2.00 \$1. 2.50 \$1.

3	70730	12	4.00	2.20	70702	0.00	3.30
š	,	COMPLET	E FOR	BASE MOI	UNTING-	TYPE BM	
4	,	4 Ft. (	Cable			Ft. Cable	
K	No.	Contact	List	Each	No.	List	Each
ž	96963	5	\$1.75	\$1.05	96967	\$2.25	\$1.50
3	96964	7	2.50	1.50	96968	2.75	1.65
3	96965	10	3.25	1.95	96969	4.50	2.70
9	96966	12	4.25	2.55	96970	5.75	3.45
Ś	2000	000000	0000	200000	00000	22222	ana

#### "ACE" HARD RUBBER PANELS



ACE Quality Panels made of special hard rubber compound are easy to drill, assure good insulation and are very durable. Finished in black;

No.	Size	List	Each
96038	7x9	\$0.70	\$0.29
91660	7x12	.95	.57
91661	7x14	1.10	.66
91662	7x18	1.40	.84
91663	7x21	1.62	.97
91664	7x24	1.85	1.11
91665	7x26	2.00	1.20
91666	7x30	2.30	1.38

#### VERY SPECIAL PRICES MAHOGANITE OR BLACK

Size Each

MAGNET WIRI

#### **Best Quality Magnet Wire**

Furnished on handy wooden spools in the following sizes:

=	DOUBLE COTTON	-	• 94779	7x18x1/8	\$1.29
	1/2-Lb. Spools	=	94780	7x18x3/6	1.92
No.	Size	Each =	<b>♦ 94781</b>	7x21x3/6	2.24
= 92364	18	\$0.29 E	94782	7x24x3/6	2.55
92365	20	.32	94783	7x26x3/6	2.77
	22	.34			
92366		.37	<b>94784</b>	7x28x3/16	2.98
92367	24		94785	7x30x3/6	3.20
= 92368	26	.54	•	WALNUT	
	1/4-Ib. Spools	=	No.	Size	Each
= No.	Size	Each =	94786	7×18×1/8	\$1.35
92385	18	\$0.19			
92386	20	.20	94787	7x18x3/16	2.02
92387	22	.22 =	94788	7x21x3/16	2.35
92388	24	.25 =	94789	7x24x3/6	2.68
92389	26	.31	• 94790	7x26x3/6	2.91
20000		.02	94791	7x28x3/6	3.13
=		T71- =	94792	7x30x3/6	3.36
No.	Size Lb.	Each =	72172	1 x 30 x 7/6	3.30
92361	26 1/2	\$0.42	Odd size pa	nels can be furnished	in either
= 92362	26 1/2 28 1/2 28 1/4	.48 =	•black or walr	out finish at 14c net	per square.
= 92383	28 1/4	.30 🖺	oinch in ¼-in	. thickness, and 1%c	per square.
92384	30 1/4	.34 ≡	inch in 3/16-	in thickness.	
= -		=	444444		AAAAA
A HOLD BORNE	A THE STREET AND STREET AND STREET ASSESSMENT	Management of the Control of the Con	****		****

A DESCRIPTION OF THE PROPERTY OF THE PROPERTY

BLACK Size 7x18x1/8 1.92 2.24 94781 7x26x3/6 7x28x3/6 WALNUT Size 94786 94787 7x18x 1/8 7x18x 3/6 7x21x3/6



#### SOLDER LUG FOR RADIO

Plain tinned lugs, which are very reliable in making connections. Strong and well built. Package contains 24 lugs.

93873	Size Long Stubby	Per Pkg\$0.05	10 Pkg. Lots \$0.041/2 .041/2

#### **KELLOG LUGS**

Fine lugs for quick and permanent soldering

No.	Size		Per 250	Per 500	Per 1000
96428		No. 6 Screw		\$0.82	\$1.60
96429	1/8" Long for	No. 8 Screw	60c	1.15	2.20



#### **TAP-OFF PLUGS**

Efficient Double and Triple Plug for making connections to standard receptacles. Neat and compact.

No.		Each	10 Lots
90767	Triple	9c	7½c

# Brunelli-Jones

Positively the Best Battery at Lowest Prices

### BRUNELLI-JONES



"A". "B" and "C" batteries are built to most exacting specifications, which result in long life, exceptional strength and vitality. Only the highest grade chemicals are used and the čelis are built extra strong. Equipped with Fahnestock clips. Use Brunelli-Jones batteries for a leader they satisfy

Brunelli - Jones "A"

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

10 Lets

### Brunelli Jones "C" Battery



A good, serviceable "C" battery that keeps up its strength for extaining time.

No. 34656—4 1/5 Voit
5 Lets

2% Discount

Brunelli-Jones SQUARE CELL

Each \$2.90, Less 2% or "B" Battery 84

The new construction ideas incorporated in SQUARE CELL. Batteries means greater astisfaction and longer life. Contains SQUARE CELLS.

**UPRIGHT TYPE 45-Volt** 



sizebattery that is a favorite on account its shape. Cell space is apportioned to give longest

No. 94654 45 Volt

**5 LOTS EACH** \$148 LESS 2% **EACH \$ 152** LESS 2% 149

## 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.

> EXTRA GOOD QUALITY

Nº 94685 **5LOTS EACH** \$1.93 LESS 2 % EACH \$ 2 02 LESS 2% 198 NET

## Betterbilt Batteries

## Extra Thick Plates 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 Ahbell 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 in sures safe delivery—no chance for damage or spilling.

NO. 92772

140 AMP 15 PLATE

10.25

.21

PRICE

LESS 2%

NO. 92771

120 AMP. 13 PLATE

PRICE **8.40** 

LESS 2% .17

GUARANTEED FOR.4 TWO YEARS

> No. 92770 100 AMP, II PLATE **PRICE** 7.21 Less 2% . 14

NO. 92784 180 AMP 17 PLATE PRICE 11.42 LESS 2% .23



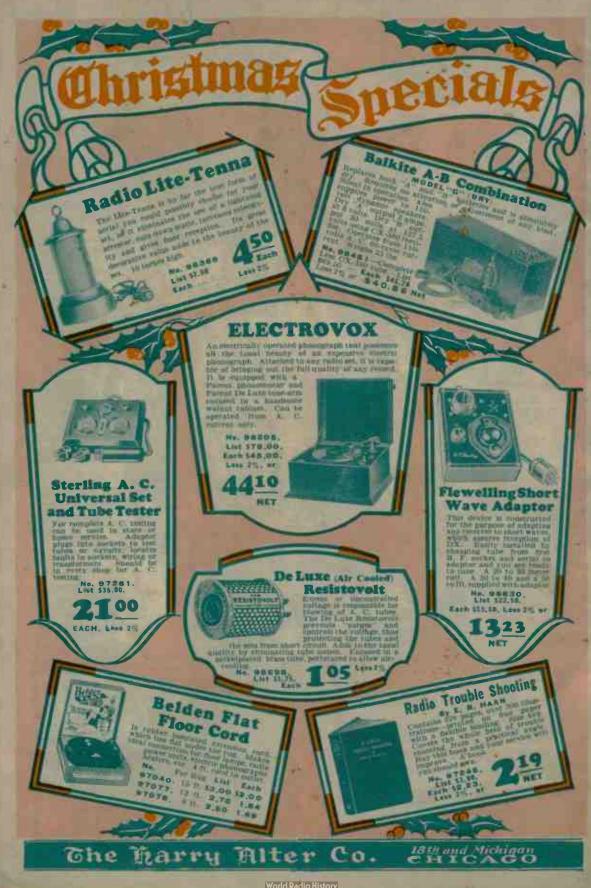
### HIGHEST QUALITY MATERIALS

Nothing but the best is used in Retterbilt Batteries. Thick substant resisting plates; rigid lead grids; finest selected oxides; genuine Port Oxford cedar insulators; and the famous Abbersolid rubber case Do not confuse with cheap batteries. Every one is a high-grade, full weight, GUARANTEED SATTERY.

#### 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.

No.92714 PRICE \$6.66 Less 2% .13



## Our Guarantee

completely satisfied in why your dealings with The Harry Alter Company. We consume to repair or replace any goods purchased from we, which are found defective in merial or workmanship. On course, three and tubes have definite service guarantees, in accordance with our Moeral adjustment policy.

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UR fact shipping service gets your goods to you in record quick time.

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